

| Gene symbol | Primers (5' to 3') |
|-------------|--|
| ANGPTL7 | CTCCGCAAAGGTGGCTACT ACCCGTTTGAGGGAGTAGGT |
| DPT | ATGGAATGGTACCAGACGTGC CTGACTCGAAGTAGCGGCTC |
| RANBP3L | CCGTCACTAACCTCCCAACC ACAGGACCTGTTCAGCACT |
| COL10A1 | ACTCCCAGCACGCAGAATCC GGGCATTTGGTATCGTTCAGC |
| MMP7 | AGTGGTCACCTACAGGATCG GGGATCTCTTGCCCCACAT |
| COMP | GCTGTGGGTTACACTGCCT AAGCCCGCATAGTCGTCATC |
| CORIN | CAATCCCACAACAGAGCATCG CATCCTTGCAGTCTCGTCA |
| CXCL14 | TCATCACCACCAAGAGCGTG TTCCAGGCGTTGTACCACTT |
| ADAMTSL3 | CCCTCCTGTGATAGAGACTGC TCAGCGACATGGGGAAAAGA |
| STC1 | TGAAGTGGTTCGTTGCCTCA GACGAATGCTTTTCCCTGAGT |
| CP | CCGTTCTACAAAATGAAGACACCAA TTCCCCACAAATGTACAAAGT |
| APLN | TCCGTCCAGTCCATCTTCCT AGATGAGACAGGCAGGGACT |

| Names | Genes_In_Term | DEG |
|--|---------------|-----|
| Total | 16490 | 671 |
| GO:0001666//response to hypoxia | 191 | 42 |
| GO:0001944//vasculature development | 355 | 57 |
| GO:0007275//multicellular organismal development | 3339 | 239 |
| GO:0009653//anatomical structure morphogenesis | 1573 | 150 |
| GO:0032501//multicellular organismal process | 5201 | 319 |
| GO:0032502//developmental process | 3759 | 262 |
| GO:0036293//response to decreased oxygen levels | 193 | 42 |
| GO:0044707//single-multicellular organism process | 4967 | 309 |
| GO:0044767//single-organism developmental process | 2824 | 207 |
| GO:0048731//system development | 2833 | 219 |
| GO:0048856//anatomical structure development | 3300 | 242 |
| GO:0050793//regulation of developmental process | 1333 | 124 |
| GO:0051239//regulation of multicellular organismal process | 1683 | 144 |
| GO:0070482//response to oxygen levels | 204 | 44 |
| GO:0072358//cardiovascular system development | 571 | 73 |
| GO:0072359//circulatory system development | 571 | 73 |
| GO:0001568//blood vessel development | 326 | 51 |
| GO:0048513//organ development | 2014 | 158 |
| GO:2000026//regulation of multicellular organismal development | 1024 | 99 |
| GO:0009628//response to abiotic stimulus | 722 | 79 |
| GO:0042127//regulation of cell proliferation | 1061 | 99 |
| GO:0048514//blood vessel morphogenesis | 268 | 43 |
| GO:0050896//response to stimulus | 6156 | 346 |
| GO:0048468//cell development | 1054 | 97 |
| GO:0048646//anatomical structure formation involved in morphogenesis | 604 | 68 |
| GO:0009888//tissue development | 1110 | 100 |
| GO:0009605//response to external stimulus | 885 | 86 |
| GO:0030154//cell differentiation | 2110 | 153 |
| GO:0051094//positive regulation of developmental process | 621 | 67 |
| GO:0007155//cell adhesion | 655 | 69 |
| GO:0044699//single-organism process | 10099 | 498 |
| GO:0048519//negative regulation of biological process | 2913 | 193 |
| GO:0022610//biological adhesion | 657 | 69 |
| GO:0040011//locomotion | 828 | 80 |
| GO:0045595//regulation of cell differentiation | 943 | 86 |
| GO:0048869//cellular developmental process | 2220 | 156 |
| GO:0048518//positive regulation of biological process | 3304 | 209 |
| GO:0001501//skeletal system development | 314 | 43 |
| GO:0048583//regulation of response to stimulus | 2414 | 164 |
| GO:0040012//regulation of locomotion | 429 | 51 |
| GO:0048523//negative regulation of cellular process | 2680 | 177 |
| GO:0030334//regulation of cell migration | 376 | 47 |
| GO:2000145//regulation of cell motility | 395 | 48 |
| GO:0009719//response to endogenous stimulus | 868 | 79 |
| GO:0048522//positive regulation of cellular process | 2907 | 187 |
| GO:0030198//extracellular matrix organization | 244 | 36 |
| GO:0070887//cellular response to chemical stimulus | 1508 | 115 |
| GO:0043062//extracellular structure organization | 245 | 36 |
| GO:0008284//positive regulation of cell proliferation | 602 | 61 |
| GO:0051270//regulation of cellular component movement | 439 | 50 |
| GO:0007167//enzyme linked receptor protein signaling pathway | 575 | 59 |
| GO:0022603//regulation of anatomical structure morphogenesis | 531 | 56 |
| GO:0001503//ossification | 139 | 26 |
| GO:0048585//negative regulation of response to stimulus | 758 | 70 |
| GO:0030278//regulation of ossification | 143 | 26 |
| GO:0007399//nervous system development | 1444 | 109 |

| | | |
|--|------|-----|
| GO:1901700//response to oxygen-containing compound | 836 | 74 |
| GO:0006928//cellular component movement | 923 | 79 |
| GO:0065008//regulation of biological quality | 2348 | 155 |
| GO:0042221//response to chemical stimulus | 2879 | 181 |
| GO:0001525//angiogenesis | 193 | 30 |
| GO:0071453//cellular response to oxygen levels | 62 | 17 |
| GO:0009725//response to hormone stimulus | 552 | 56 |
| GO:0036294//cellular response to decreased oxygen levels | 55 | 16 |
| GO:0071456//cellular response to hypoxia | 55 | 16 |
| GO:0045597//positive regulation of cell differentiation | 451 | 49 |
| GO:0016477//cell migration | 516 | 53 |
| GO:0008015//blood circulation | 236 | 33 |
| GO:0032879//regulation of localization | 1314 | 100 |
| GO:0048705//skeletal system morphogenesis | 143 | 25 |
| GO:0003013//circulatory system process | 238 | 33 |
| GO:0009887//organ morphogenesis | 614 | 59 |
| GO:0032101//regulation of response to external stimulus | 403 | 45 |
| GO:0006950//response to stress | 2592 | 165 |
| GO:0010033//response to organic substance | 1685 | 119 |
| GO:0010906//regulation of glucose metabolic process | 77 | 18 |
| GO:0009790//embryo development | 805 | 70 |
| GO:0023051//regulation of signaling | 1945 | 131 |
| GO:0050727//regulation of inflammatory response | 225 | 31 |
| GO:0010646//regulation of cell communication | 1949 | 131 |
| GO:0022008//neurogenesis | 959 | 78 |
| GO:0007507//heart development | 323 | 38 |
| GO:0048736//appendage development | 123 | 22 |
| GO:0060173//limb development | 123 | 22 |
| GO:0071495//cellular response to endogenous stimulus | 569 | 54 |
| GO:0048870//cell motility | 571 | 54 |
| GO:0051674//localization of cell | 571 | 54 |
| GO:0060485//mesenchyme development | 116 | 21 |
| GO:0009966//regulation of signal transduction | 1731 | 118 |
| GO:0061448//connective tissue development | 140 | 23 |
| GO:0043067//regulation of programmed cell death | 1022 | 80 |
| GO:0010675//regulation of cellular carbohydrate metabolic process | 98 | 19 |
| GO:2000027//regulation of organ morphogenesis | 130 | 22 |
| GO:0051174//regulation of phosphorus metabolic process | 1248 | 92 |
| GO:0042981//regulation of apoptotic process | 1011 | 79 |
| GO:0048699//generation of neurons | 890 | 72 |
| GO:0033993//response to lipid | 496 | 48 |
| GO:0006109//regulation of carbohydrate metabolic process | 102 | 19 |
| GO:0008217//regulation of blood pressure | 135 | 22 |
| GO:0006935//chemotaxis | 421 | 43 |
| GO:0042330//taxis | 421 | 43 |
| GO:1901701//cellular response to oxygen-containing compound | 485 | 47 |
| GO:0010941//regulation of cell death | 1055 | 80 |
| GO:0010677//negative regulation of cellular carbohydrate metabolic process | 27 | 10 |
| GO:1901342//regulation of vasculature development | 154 | 23 |
| GO:0019220//regulation of phosphate metabolic process | 1236 | 89 |
| GO:0071310//cellular response to organic substance | 1181 | 86 |
| GO:0001655//urogenital system development | 246 | 30 |
| GO:0000904//cell morphogenesis involved in differentiation | 437 | 43 |
| GO:0051246//regulation of protein metabolic process | 1391 | 97 |
| GO:0010243//response to organonitrogen compound | 486 | 46 |
| GO:0023056//positive regulation of signaling | 805 | 65 |
| GO:0010647//positive regulation of cell communication | 806 | 65 |
| GO:0009611//response to wounding | 790 | 64 |

| | | |
|--|------|-----|
| GO:0048660//regulation of smooth muscle cell proliferation | 70 | 15 |
| GO:0045667//regulation of osteoblast differentiation | 90 | 17 |
| GO:0010627//regulation of intracellular protein kinase cascade | 654 | 56 |
| GO:0042325//regulation of phosphorylation | 815 | 65 |
| GO:0048568//embryonic organ development | 310 | 34 |
| GO:0045912//negative regulation of carbohydrate metabolic process | 30 | 10 |
| GO:0032989//cellular component morphogenesis | 647 | 55 |
| GO:0061035//regulation of cartilage development | 38 | 11 |
| GO:0030155//regulation of cell adhesion | 243 | 29 |
| GO:0006957//complement activation, alternative pathway | 18 | 8 |
| GO:0043069//negative regulation of programmed cell death | 550 | 49 |
| GO:0051093//negative regulation of developmental process | 518 | 47 |
| GO:0072001//renal system development | 217 | 27 |
| GO:0003085//negative regulation of systemic arterial blood pressure | 13 | 7 |
| GO:0061298//retina vasculature development in camera-type eye | 13 | 7 |
| GO:0090287//regulation of cellular response to growth factor stimulus | 129 | 20 |
| GO:0045765//regulation of angiogenesis | 142 | 21 |
| GO:0007423//sensory organ development | 380 | 38 |
| GO:0001890//placenta development | 119 | 19 |
| GO:0043066//negative regulation of apoptotic process | 544 | 48 |
| GO:0051241//negative regulation of multicellular organismal process | 323 | 34 |
| GO:1901698//response to nitrogen compound | 512 | 46 |
| GO:0007169//transmembrane receptor protein tyrosine kinase signaling pat | 432 | 41 |
| GO:0060548//negative regulation of cell death | 571 | 49 |
| GO:0044763//single-organism cellular process | 8996 | 427 |
| GO:0001932//regulation of protein phosphorylation | 763 | 60 |
| GO:0042060//wound healing | 457 | 42 |
| GO:0043408//regulation of MAPK cascade | 426 | 40 |
| GO:0002347//response to tumor cell | 10 | 6 |
| GO:0045820//negative regulation of glycolysis | 10 | 6 |
| GO:0071363//cellular response to growth factor stimulus | 364 | 36 |
| GO:0008285//negative regulation of cell proliferation | 476 | 43 |
| GO:0048666//neuron development | 543 | 47 |
| GO:0048634//regulation of muscle organ development | 82 | 15 |
| GO:0035295//tube development | 382 | 37 |
| GO:0007411//axon guidance | 247 | 28 |
| GO:0097485//neuron projection guidance | 247 | 28 |
| GO:0043009//chordate embryonic development | 462 | 42 |
| GO:0035107//appendage morphogenesis | 116 | 18 |
| GO:0035108//limb morphogenesis | 116 | 18 |
| GO:0000902//cell morphogenesis | 597 | 50 |
| GO:0051147//regulation of muscle cell differentiation | 84 | 15 |
| GO:0080134//regulation of response to stress | 723 | 57 |
| GO:0043410//positive regulation of MAPK cascade | 295 | 31 |
| GO:0009792//embryo development ending in birth or egg hatching | 468 | 42 |
| GO:0050678//regulation of epithelial cell proliferation | 182 | 23 |
| GO:0048729//tissue morphogenesis | 420 | 39 |
| GO:0060284//regulation of cell development | 420 | 39 |
| GO:0032102//negative regulation of response to external stimulus | 131 | 19 |
| GO:0048812//neuron projection morphogenesis | 358 | 35 |
| GO:0051130//positive regulation of cellular component organization | 454 | 41 |
| GO:0007178//transmembrane receptor protein serine/threonine kinase sign | 132 | 19 |
| GO:0048661//positive regulation of smooth muscle cell proliferation | 46 | 11 |
| GO:0030182//neuron differentiation | 659 | 53 |
| GO:0009893//positive regulation of metabolic process | 1809 | 113 |
| GO:0009967//positive regulation of signal transduction | 768 | 59 |
| GO:0030449//regulation of complement activation | 38 | 10 |
| GO:2000257//regulation of protein activation cascade | 38 | 10 |

| | | |
|---|------|-----|
| GO:0044710//single-organism metabolic process | 2708 | 156 |
| GO:0070848//response to growth factor stimulus | 378 | 36 |
| GO:0048598//embryonic morphogenesis | 427 | 39 |
| GO:0023057//negative regulation of signaling | 629 | 51 |
| GO:0010648//negative regulation of cell communication | 632 | 51 |
| GO:0009968//negative regulation of signal transduction | 599 | 49 |
| GO:0010562//positive regulation of phosphorus metabolic process | 600 | 49 |
| GO:0045937//positive regulation of phosphate metabolic process | 600 | 49 |
| GO:0048667//cell morphogenesis involved in neuron differentiation | 352 | 34 |
| GO:0010604//positive regulation of macromolecule metabolic process | 1664 | 105 |
| GO:0002009//morphogenesis of an epithelium | 322 | 32 |
| GO:0060429//epithelium development | 620 | 50 |
| GO:0048771//tissue remodeling | 79 | 14 |
| GO:0030199//collagen fibril organization | 40 | 10 |
| GO:0045669//positive regulation of osteoblast differentiation | 49 | 11 |
| GO:0010740//positive regulation of intracellular protein kinase cascade | 468 | 41 |
| GO:0048608//reproductive structure development | 220 | 25 |
| GO:0061458//reproductive system development | 220 | 25 |
| GO:0070613//regulation of protein processing | 59 | 12 |
| GO:0061564//axon development | 340 | 33 |
| GO:0031175//neuron projection development | 438 | 39 |
| GO:0007409//axonogenesis | 326 | 32 |
| GO:0051247//positive regulation of protein metabolic process | 804 | 60 |
| GO:0006110//regulation of glycolysis | 25 | 8 |
| GO:0032330//regulation of chondrocyte differentiation | 25 | 8 |
| GO:0048584//positive regulation of response to stimulus | 1201 | 81 |
| GO:1901652//response to peptide | 266 | 28 |
| GO:0016202//regulation of striated muscle tissue development | 81 | 14 |
| GO:1901861//regulation of muscle tissue development | 81 | 14 |
| GO:0040007//growth | 282 | 29 |
| GO:0001822//kidney development | 169 | 21 |
| GO:0051128//regulation of cellular component organization | 1113 | 76 |
| GO:0001562//response to protozoan | 19 | 7 |
| GO:0051240//positive regulation of multicellular organismal process | 498 | 42 |
| GO:0050728//negative regulation of inflammatory response | 73 | 13 |
| GO:0001701//in utero embryonic development | 288 | 29 |
| GO:0001654//eye development | 243 | 26 |
| GO:0031667//response to nutrient levels | 214 | 24 |
| GO:0048762//mesenchymal cell differentiation | 96 | 15 |
| GO:0055123//digestive system development | 96 | 15 |
| GO:0045732//positive regulation of protein catabolic process | 85 | 14 |
| GO:0060541//respiratory system development | 147 | 19 |
| GO:0009991//response to extracellular stimulus | 232 | 25 |
| GO:0051716//cellular response to stimulus | 4615 | 238 |
| GO:0042327//positive regulation of phosphorylation | 523 | 43 |
| GO:0030323//respiratory tube development | 136 | 18 |
| GO:0048863//stem cell differentiation | 205 | 23 |
| GO:0048732//gland development | 221 | 24 |
| GO:0046683//response to organophosphorus | 77 | 13 |
| GO:0001958//endochondral ossification | 21 | 7 |
| GO:0036075//replacement ossification | 21 | 7 |
| GO:0001934//positive regulation of protein phosphorylation | 512 | 42 |
| GO:0048565//digestive tract development | 89 | 14 |
| GO:0006022//aminoglycan metabolic process | 140 | 18 |
| GO:0030574//collagen catabolic process | 57 | 11 |
| GO:2000736//regulation of stem cell differentiation | 57 | 11 |
| GO:0048878//chemical homeostasis | 551 | 44 |
| GO:0048844//artery morphogenesis | 38 | 9 |

| | | |
|---|------|-----|
| GO:0060322//head development | 38 | 9 |
| GO:0043434//response to peptide hormone stimulus | 257 | 26 |
| GO:0060324//face development | 30 | 8 |
| GO:0003073//regulation of systemic arterial blood pressure | 69 | 12 |
| GO:0044706//multi-multicellular organism process | 170 | 20 |
| GO:0010563//negative regulation of phosphorus metabolic process | 258 | 26 |
| GO:0045936//negative regulation of phosphate metabolic process | 258 | 26 |
| GO:0050679//positive regulation of epithelial cell proliferation | 105 | 15 |
| GO:0051216//cartilage development | 105 | 15 |
| GO:0042692//muscle cell differentiation | 200 | 22 |
| GO:0009607//response to biotic stimulus | 524 | 42 |
| GO:0031399//regulation of protein modification process | 927 | 64 |
| GO:0007417//central nervous system development | 578 | 45 |
| GO:0043470//regulation of carbohydrate catabolic process | 31 | 8 |
| GO:0043471//regulation of cellular carbohydrate catabolic process | 31 | 8 |
| GO:0042592//homeostatic process | 873 | 61 |
| GO:2000147//positive regulation of cell motility | 231 | 24 |
| GO:0044057//regulation of system process | 390 | 34 |
| GO:0090101//negative regulation of transmembrane receptor protein serine | 71 | 12 |
| GO:0050789//regulation of biological process | 8567 | 400 |
| GO:0030324//lung development | 133 | 17 |
| GO:0009892//negative regulation of metabolic process | 1327 | 84 |
| GO:0051272//positive regulation of cellular component movement | 234 | 24 |
| GO:0060350//endochondral bone morphogenesis | 32 | 8 |
| GO:0002376//immune system process | 1675 | 101 |
| GO:0014031//mesenchymal cell development | 84 | 13 |
| GO:0060349//bone morphogenesis | 51 | 10 |
| GO:0060325//face morphogenesis | 24 | 7 |
| GO:0045598//regulation of fat cell differentiation | 62 | 11 |
| GO:0090092//regulation of transmembrane receptor protein serine/threonin | 149 | 18 |
| GO:0071560//cellular response to transforming growth factor beta stimulus | 97 | 14 |
| GO:0065007//biological regulation | 9063 | 419 |
| GO:0005996//monosaccharide metabolic process | 192 | 21 |
| GO:0007568//aging | 136 | 17 |
| GO:0001957//intramembranous ossification | 6 | 4 |
| GO:0002418//immune response to tumor cell | 6 | 4 |
| GO:0036072//direct ossification | 6 | 4 |
| GO:0061299//retina vasculature morphogenesis in camera-type eye | 6 | 4 |
| GO:0044703//multi-organism reproductive process | 178 | 20 |
| GO:0042176//regulation of protein catabolic process | 150 | 18 |
| GO:0050730//regulation of peptidyl-tyrosine phosphorylation | 150 | 18 |
| GO:0042698//ovulation cycle | 74 | 12 |
| GO:0060348//bone development | 74 | 12 |
| GO:0040017//positive regulation of locomotion | 238 | 24 |
| GO:0071559//response to transforming growth factor beta stimulus | 98 | 14 |
| GO:0031325//positive regulation of cellular metabolic process | 1708 | 102 |
| GO:0043549//regulation of kinase activity | 593 | 45 |
| GO:0031347//regulation of defense response | 436 | 36 |
| GO:0044243//multicellular organismal catabolic process | 64 | 11 |
| GO:0048511//rhythmic process | 139 | 17 |
| GO:0048545//response to steroid hormone stimulus | 241 | 24 |
| GO:0060711//labyrinthine layer development | 34 | 8 |
| GO:0002673//regulation of acute inflammatory response | 76 | 12 |
| GO:0030335//positive regulation of cell migration | 227 | 23 |
| GO:0060537//muscle tissue development | 212 | 22 |
| GO:0051049//regulation of transport | 974 | 65 |
| GO:0045859//regulation of protein kinase activity | 563 | 43 |
| GO:0031324//negative regulation of cellular metabolic process | 1232 | 78 |

| | | |
|--|------|-----|
| GO:0043010//camera-type eye development | 213 | 22 |
| GO:0014070//response to organic cyclic compound | 477 | 38 |
| GO:0014706//striated muscle tissue development | 199 | 21 |
| GO:0007154//cell communication | 4207 | 215 |
| GO:0010171//body morphogenesis | 35 | 8 |
| GO:0070542//response to fatty acid | 35 | 8 |
| GO:0051153//regulation of striated muscle cell differentiation | 55 | 10 |
| GO:2000377//regulation of reactive oxygen species metabolic process | 55 | 10 |
| GO:0002920//regulation of humoral immune response | 66 | 11 |
| GO:0003006//developmental process involved in reproduction | 375 | 32 |
| GO:0071417//cellular response to organonitrogen compound | 277 | 26 |
| GO:0032332//positive regulation of chondrocyte differentiation | 12 | 5 |
| GO:0060840//artery development | 45 | 9 |
| GO:0032963//collagen metabolic process | 78 | 12 |
| GO:0045766//positive regulation of angiogenesis | 78 | 12 |
| GO:0006007//glucose catabolic process | 56 | 10 |
| GO:0060323//head morphogenesis | 27 | 7 |
| GO:0043583//ear development | 158 | 18 |
| GO:0042326//negative regulation of phosphorylation | 202 | 21 |
| GO:0065009//regulation of molecular function | 1758 | 103 |
| GO:0030203//glycosaminoglycan metabolic process | 131 | 16 |
| GO:0010605//negative regulation of macromolecule metabolic process | 1226 | 77 |
| GO:0007596//blood coagulation | 380 | 32 |
| GO:0050817//coagulation | 380 | 32 |
| GO:0060174//limb bud formation | 7 | 4 |
| GO:0022617//extracellular matrix disassembly | 68 | 11 |
| GO:0051338//regulation of transferase activity | 613 | 45 |
| GO:0050900//leukocyte migration | 190 | 20 |
| GO:0043065//positive regulation of apoptotic process | 366 | 31 |
| GO:0007599//hemostasis | 383 | 32 |
| GO:0022602//ovulation cycle process | 69 | 11 |
| GO:0009952//anterior/posterior pattern specification | 147 | 17 |
| GO:0070167//regulation of biomineral tissue development | 58 | 10 |
| GO:0031348//negative regulation of defense response | 94 | 13 |
| GO:0003002//regionalization | 238 | 23 |
| GO:0008585//female gonad development | 70 | 11 |
| GO:0045995//regulation of embryonic development | 82 | 12 |
| GO:0055114//oxidation-reduction process | 767 | 53 |
| GO:0031214//biomineral tissue development | 48 | 9 |
| GO:0051336//regulation of hydrolase activity | 787 | 54 |
| GO:0043068//positive regulation of programmed cell death | 370 | 31 |
| GO:0007584//response to nutrient | 108 | 14 |
| GO:0048701//embryonic cranial skeleton morphogenesis | 29 | 7 |
| GO:0061061//muscle structure development | 321 | 28 |
| GO:0021700//developmental maturation | 136 | 16 |
| GO:0014066//regulation of phosphatidylinositol 3-kinase cascade | 49 | 9 |
| GO:0050790//regulation of catalytic activity | 1428 | 86 |
| GO:0030168//platelet activation | 151 | 17 |
| GO:0006111//regulation of gluconeogenesis | 21 | 6 |
| GO:0040013//negative regulation of locomotion | 137 | 16 |
| GO:0044259//multicellular organismal macromolecule metabolic process | 84 | 12 |
| GO:0019318//hexose metabolic process | 166 | 18 |
| GO:0048858//cell projection morphogenesis | 462 | 36 |
| GO:0007565//female pregnancy | 138 | 16 |
| GO:0046849//bone remodeling | 30 | 7 |
| GO:2000278//regulation of DNA biosynthetic process | 14 | 5 |
| GO:0003231//cardiac ventricle development | 73 | 11 |
| GO:0001913//T cell mediated cytotoxicity | 8 | 4 |

| | | |
|--|------|-----|
| GO:2000573//positive regulation of DNA biosynthetic process | 8 | 4 |
| GO:NM_0059 | 8 | 4 |
| GO:0009612//response to mechanical stimulus | 125 | 15 |
| GO:0016043//cellular component organization | 3343 | 174 |
| GO:0045860//positive regulation of protein kinase activity | 361 | 30 |
| GO:0048589//developmental growth | 154 | 17 |
| GO:1901699//cellular response to nitrogen compound | 295 | 26 |
| GO:0051707//response to other organism | 503 | 38 |
| GO:0023052//signaling | 4097 | 207 |
| GO:0044700//single organism signaling | 4097 | 207 |
| GO:0048641//regulation of skeletal muscle tissue development | 51 | 9 |
| GO:0030282//bone mineralization | 31 | 7 |
| GO:0045776//negative regulation of blood pressure | 31 | 7 |
| GO:0050819//negative regulation of coagulation | 31 | 7 |
| GO:0033674//positive regulation of kinase activity | 381 | 31 |
| GO:0006096//glycolysis | 41 | 8 |
| GO:0014068//positive regulation of phosphatidylinositol 3-kinase cascade | 41 | 8 |
| GO:0045807//positive regulation of endocytosis | 63 | 10 |
| GO:0010942//positive regulation of cell death | 382 | 31 |
| GO:0031401//positive regulation of protein modification process | 635 | 45 |
| GO:0030336//negative regulation of cell migration | 114 | 14 |
| GO:0006979//response to oxidative stress | 233 | 22 |
| GO:0045087//innate immune response | 525 | 39 |
| GO:0032844//regulation of homeostatic process | 250 | 23 |
| GO:0002076//osteoblast development | 15 | 5 |
| GO:0072012//glomerulus vasculature development | 15 | 5 |
| GO:0050731//positive regulation of peptidyl-tyrosine phosphorylation | 115 | 14 |
| GO:0006959//humoral immune response | 129 | 15 |
| GO:0007173//epidermal growth factor receptor signaling pathway | 129 | 15 |
| GO:0043589//skin morphogenesis | 32 | 7 |
| GO:0048546//digestive tract morphogenesis | 42 | 8 |
| GO:0032990//cell part morphogenesis | 474 | 36 |
| GO:0003205//cardiac chamber development | 89 | 12 |
| GO:0009743//response to carbohydrate stimulus | 89 | 12 |
| GO:0048562//embryonic organ morphogenesis | 204 | 20 |
| GO:0030500//regulation of bone mineralization | 53 | 9 |
| GO:0070555//response to interleukin-1 | 53 | 9 |
| GO:0038127//ERBB signaling pathway | 130 | 15 |
| GO:0042445//hormone metabolic process | 145 | 16 |
| GO:0044236//multicellular organismal metabolic process | 90 | 12 |
| GO:0010817//regulation of hormone levels | 190 | 19 |
| GO:2000146//negative regulation of cell motility | 117 | 14 |
| GO:0044344//cellular response to fibroblast growth factor stimulus | 131 | 15 |
| GO:1901135//carbohydrate derivative metabolic process | 1072 | 67 |
| GO:0043467//regulation of generation of precursor metabolites and energy | 54 | 9 |
| GO:0090130//tissue migration | 54 | 9 |
| GO:0061138//morphogenesis of a branching epithelium | 146 | 16 |
| GO:0017015//regulation of transforming growth factor beta receptor signaling pathway | 78 | 11 |
| GO:0048566//embryonic digestive tract development | 33 | 7 |
| GO:0071774//response to fibroblast growth factor stimulus | 132 | 15 |
| GO:0048469//cell maturation | 91 | 12 |
| GO:0060828//regulation of canonical Wnt receptor signaling pathway | 118 | 14 |
| GO:0048260//positive regulation of receptor-mediated endocytosis | 24 | 6 |
| GO:0051347//positive regulation of transferase activity | 391 | 31 |
| GO:0009896//positive regulation of catabolic process | 147 | 16 |
| GO:0061437//renal system vasculature development | 16 | 5 |
| GO:0061440//kidney vasculature development | 16 | 5 |
| GO:0008406//gonad development | 162 | 17 |

| | | |
|--|------|-----|
| GO:0048864//stem cell development | 162 | 17 |
| GO:0071900//regulation of protein serine/threonine kinase activity | 340 | 28 |
| GO:0005975//carbohydrate metabolic process | 648 | 45 |
| GO:0007292//female gamete generation | 79 | 11 |
| GO:0019216//regulation of lipid metabolic process | 193 | 19 |
| GO:0048706//embryonic skeletal system development | 92 | 12 |
| GO:0050878//regulation of body fluid levels | 464 | 35 |
| GO:0001892//embryonic placenta development | 67 | 10 |
| GO:0060191//regulation of lipase activity | 106 | 13 |
| GO:0051223//regulation of protein transport | 291 | 25 |
| GO:0006692//prostanoid metabolic process | 25 | 6 |
| GO:0006693//prostaglandin metabolic process | 25 | 6 |
| GO:0043666//regulation of phosphoprotein phosphatase activity | 25 | 6 |
| GO:0048008//platelet-derived growth factor receptor signaling pathway | 25 | 6 |
| GO:0035272//exocrine system development | 45 | 8 |
| GO:0010810//regulation of cell-substrate adhesion | 94 | 12 |
| GO:0030858//positive regulation of epithelial cell differentiation | 35 | 7 |
| GO:0071347//cellular response to interleukin-1 | 35 | 7 |
| GO:0032870//cellular response to hormone stimulus | 329 | 27 |
| GO:0043588//skin development | 213 | 20 |
| GO:0019320//hexose catabolic process | 69 | 10 |
| GO:0033688//regulation of osteoblast proliferation | 17 | 5 |
| GO:0060445//branching involved in salivary gland morphogenesis | 17 | 5 |
| GO:0031646//positive regulation of neurological system process | 57 | 9 |
| GO:0043255//regulation of carbohydrate biosynthetic process | 57 | 9 |
| GO:0032880//regulation of protein localization | 364 | 29 |
| GO:0032270//positive regulation of cellular protein metabolic process | 715 | 48 |
| GO:0030638//polyketide metabolic process | 10 | 4 |
| GO:2000505//regulation of energy homeostasis | 10 | 4 |
| GO:0001763//morphogenesis of a branching structure | 152 | 16 |
| GO:0051146//striated muscle cell differentiation | 152 | 16 |
| GO:0010976//positive regulation of neuron projection development | 46 | 8 |
| GO:0051271//negative regulation of cellular component movement | 123 | 14 |
| GO:0015711//organic anion transport | 263 | 23 |
| GO:0001775//cell activation | 491 | 36 |
| GO:0014902//myotube differentiation | 26 | 6 |
| GO:0035567//non-canonical Wnt receptor signaling pathway | 26 | 6 |
| GO:0003007//heart morphogenesis | 153 | 16 |
| GO:0007435//salivary gland morphogenesis | 36 | 7 |
| GO:0048259//regulation of receptor-mediated endocytosis | 36 | 7 |
| GO:0044723//single-organism carbohydrate metabolic process | 457 | 34 |
| GO:0045596//negative regulation of cell differentiation | 421 | 32 |
| GO:0022414//reproductive process | 898 | 57 |
| GO:0019222//regulation of metabolic process | 4734 | 231 |
| GO:0045137//development of primary sexual characteristics | 186 | 18 |
| GO:0060137//maternal process involved in parturition | 5 | 3 |
| GO:0072103//glomerulus vasculature morphogenesis | 5 | 3 |
| GO:0072104//glomerular capillary formation | 5 | 3 |
| GO:0002053//positive regulation of mesenchymal cell proliferation | 27 | 6 |
| GO:0043405//regulation of MAP kinase activity | 235 | 21 |
| GO:0007179//transforming growth factor beta receptor signaling pathway | 72 | 10 |
| GO:0006721//terpenoid metabolic process | 85 | 11 |
| GO:0046545//development of primary female sexual characteristics | 85 | 11 |
| GO:0010631//epithelial cell migration | 48 | 8 |
| GO:0090132//epithelium migration | 48 | 8 |
| GO:0007165//signal transduction | 3681 | 185 |
| GO:0070201//regulation of establishment of protein localization | 320 | 26 |
| GO:0030326//embryonic limb morphogenesis | 99 | 12 |

| | | |
|---|------|-----|
| GO:0035113//embryonic appendage morphogenesis | 99 | 12 |
| GO:0045785//positive regulation of cell adhesion | 113 | 13 |
| GO:0006024//glycosaminoglycan biosynthetic process | 86 | 11 |
| GO:0051896//regulation of protein kinase B signaling cascade | 86 | 11 |
| GO:2000725//regulation of cardiac muscle cell differentiation | 11 | 4 |
| GO:0016101//diterpenoid metabolic process | 73 | 10 |
| GO:0001933//negative regulation of protein phosphorylation | 190 | 18 |
| GO:0030195//negative regulation of blood coagulation | 28 | 6 |
| GO:1900047//negative regulation of hemostasis | 28 | 6 |
| GO:0006023//aminoglycan biosynthetic process | 87 | 11 |
| GO:0060071//Wnt receptor signaling pathway, planar cell polarity pathway | 19 | 5 |
| GO:0090175//regulation of establishment of planar polarity | 19 | 5 |
| GO:0046365//monosaccharide catabolic process | 74 | 10 |
| GO:0072006//nephron development | 74 | 10 |
| GO:0032268//regulation of cellular protein metabolic process | 1175 | 70 |
| GO:0071902//positive regulation of protein serine/threonine kinase activity | 207 | 19 |
| GO:0010720//positive regulation of cell development | 130 | 14 |
| GO:0002088//lens development in camera-type eye | 50 | 8 |
| GO:0060688//regulation of morphogenesis of a branching structure | 50 | 8 |
| GO:0001942//hair follicle development | 62 | 9 |
| GO:0030856//regulation of epithelial cell differentiation | 88 | 11 |
| GO:0031960//response to corticosteroid stimulus | 88 | 11 |
| GO:0046660//female sex differentiation | 88 | 11 |
| GO:0042063//gliogenesis | 116 | 13 |
| GO:0007431//salivary gland development | 39 | 7 |
| GO:0043542//endothelial cell migration | 39 | 7 |
| GO:0001656//metanephros development | 75 | 10 |
| GO:0006690//icosanoid metabolic process | 75 | 10 |
| GO:1901568//fatty acid derivative metabolic process | 75 | 10 |
| GO:0045787//positive regulation of cell cycle | 102 | 12 |
| GO:0051222//positive regulation of protein transport | 177 | 17 |
| GO:0006357//regulation of transcription from RNA polymerase II promoter | 1120 | 67 |
| GO:0044246//regulation of multicellular organismal metabolic process | 29 | 6 |
| GO:0009895//negative regulation of catabolic process | 89 | 11 |
| GO:0010632//regulation of epithelial cell migration | 89 | 11 |
| GO:0022404//molting cycle process | 63 | 9 |
| GO:0022405//hair cycle process | 63 | 9 |
| GO:0006112//energy reserve metabolic process | 103 | 12 |
| GO:0071496//cellular response to external stimulus | 147 | 15 |
| GO:0016055//Wnt receptor signaling pathway | 132 | 14 |
| GO:0014032//neural crest cell development | 51 | 8 |
| GO:0051971//positive regulation of transmission of nerve impulse | 51 | 8 |
| GO:0034284//response to monosaccharide stimulus | 76 | 10 |
| GO:0061041//regulation of wound healing | 76 | 10 |
| GO:0080135//regulation of cellular response to stress | 277 | 23 |
| GO:0044281//small molecule metabolic process | 2121 | 114 |
| GO:0000122//negative regulation of transcription from RNA polymerase II p | 455 | 33 |
| GO:0050794//regulation of cellular process | 8119 | 370 |
| GO:0080090//regulation of primary metabolic process | 4221 | 207 |
| GO:0002228//natural killer cell mediated immunity | 20 | 5 |
| GO:0010660//regulation of muscle cell apoptotic process | 20 | 5 |
| GO:0030325//adrenal gland development | 20 | 5 |
| GO:0042267//natural killer cell mediated cytotoxicity | 20 | 5 |
| GO:0060412//ventricular septum morphogenesis | 20 | 5 |
| GO:0060612//adipose tissue development | 20 | 5 |
| GO:0007548//sex differentiation | 211 | 19 |
| GO:0048742//regulation of skeletal muscle fiber development | 40 | 7 |
| GO:0010463//mesenchymal cell proliferation | 12 | 4 |

| | | |
|---|-------|-----|
| GO:0010656//negative regulation of muscle cell apoptotic process | 12 | 4 |
| GO:0090257//regulation of muscle system process | 104 | 12 |
| GO:0045216//cell-cell junction organization | 119 | 13 |
| GO:0051591//response to cAMP | 52 | 8 |
| GO:0071840//cellular component organization or biogenesis | 3471 | 174 |
| GO:0003281//ventricular septum development | 30 | 6 |
| GO:0015701//bicarbonate transport | 30 | 6 |
| GO:0007389//pattern specification process | 350 | 27 |
| GO:0014074//response to purine-containing compound | 91 | 11 |
| GO:0003151//outflow tract morphogenesis | 41 | 7 |
| GO:0003206//cardiac chamber morphogenesis | 78 | 10 |
| GO:0006091//generation of precursor metabolites and energy | 316 | 25 |
| GO:0060346//bone trabecula formation | 6 | 3 |
| GO:0060462//lung lobe development | 6 | 3 |
| GO:0060463//lung lobe morphogenesis | 6 | 3 |
| GO:0061438//renal system vasculature morphogenesis | 6 | 3 |
| GO:0061439//kidney vasculature morphogenesis | 6 | 3 |
| GO:2000543//positive regulation of gastrulation | 6 | 3 |
| GO:0030111//regulation of Wnt receptor signaling pathway | 166 | 16 |
| GO:0043406//positive regulation of MAP kinase activity | 166 | 16 |
| GO:0051046//regulation of secretion | 425 | 31 |
| GO:0055082//cellular chemical homeostasis | 335 | 26 |
| GO:0008543//fibroblast growth factor receptor signaling pathway | 121 | 13 |
| GO:0009987//cellular process | 11733 | 512 |
| GO:0003401//axis elongation | 21 | 5 |
| GO:0010718//positive regulation of epithelial to mesenchymal transition | 21 | 5 |
| GO:0032965//regulation of collagen biosynthetic process | 21 | 5 |
| GO:0048839//inner ear development | 136 | 14 |
| GO:0032868//response to insulin stimulus | 167 | 16 |
| GO:0051704//multi-organism process | 1053 | 63 |
| GO:0010517//regulation of phospholipase activity | 79 | 10 |
| GO:0042303//molting cycle | 66 | 9 |
| GO:0042633//hair cycle | 66 | 9 |
| GO:0001678//cellular glucose homeostasis | 31 | 6 |
| GO:0002040//sprouting angiogenesis | 31 | 6 |
| GO:0008544//epidermis development | 184 | 17 |
| GO:0051050//positive regulation of transport | 446 | 32 |
| GO:0042149//cellular response to glucose starvation | 13 | 4 |
| GO:0051154//negative regulation of striated muscle cell differentiation | 13 | 4 |
| GO:0001667//ameboidal cell migration | 108 | 12 |
| GO:0003018//vascular process in circulatory system | 80 | 10 |
| GO:0006937//regulation of muscle contraction | 94 | 11 |
| GO:0006820//anion transport | 339 | 26 |
| GO:1901564//organonitrogen compound metabolic process | 1415 | 80 |
| GO:0071396//cellular response to lipid | 219 | 19 |
| GO:0050795//regulation of behavior | 139 | 14 |
| GO:0003279//cardiac septum development | 43 | 7 |
| GO:0001570//vasculogenesis | 55 | 8 |
| GO:0007204//elevation of cytosolic calcium ion concentration | 124 | 13 |
| GO:0010712//regulation of collagen metabolic process | 22 | 5 |
| GO:0010464//regulation of mesenchymal cell proliferation | 32 | 6 |
| GO:0045429//positive regulation of nitric oxide biosynthetic process | 32 | 6 |
| GO:0055024//regulation of cardiac muscle tissue development | 32 | 6 |
| GO:0060411//cardiac septum morphogenesis | 32 | 6 |
| GO:0051384//response to glucocorticoid stimulus | 82 | 10 |
| GO:0030030//cell projection organization | 644 | 42 |
| GO:0034330//cell junction organization | 141 | 14 |
| GO:0043436//oxoacid metabolic process | 865 | 53 |

| | | |
|---|------|-----|
| GO:0002062//chondrocyte differentiation | 33 | 6 |
| GO:0016486//peptide hormone processing | 33 | 6 |
| GO:0019748//secondary metabolic process | 33 | 6 |
| GO:0035914//skeletal muscle cell differentiation | 33 | 6 |
| GO:0006952//defense response | 1049 | 62 |
| GO:0044724//single-organism carbohydrate catabolic process | 97 | 11 |
| GO:0031669//cellular response to nutrient levels | 83 | 10 |
| GO:0032314//regulation of Rac GTPase activity | 14 | 4 |
| GO:0038084//vascular endothelial growth factor signaling pathway | 14 | 4 |
| GO:0046629//gamma-delta T cell activation | 14 | 4 |
| GO:0048557//embryonic digestive tract morphogenesis | 14 | 4 |
| GO:0060713//labyrinthine layer morphogenesis | 14 | 4 |
| GO:0070168//negative regulation of biomineral tissue development | 14 | 4 |
| GO:0000003//reproduction | 989 | 59 |
| GO:0048010//vascular endothelial growth factor receptor signaling pathway | 23 | 5 |
| GO:0009891//positive regulation of biosynthetic process | 1155 | 67 |
| GO:0001523//retinoid metabolic process | 70 | 9 |
| GO:0010518//positive regulation of phospholipase activity | 70 | 9 |
| GO:0016337//cell-cell adhesion | 293 | 23 |
| GO:0010665//regulation of cardiac muscle cell apoptotic process | 7 | 3 |
| GO:0019511//peptidyl-proline hydroxylation | 7 | 3 |
| GO:0032317//regulation of Rap GTPase activity | 7 | 3 |
| GO:0032516//positive regulation of phosphoprotein phosphatase activity | 7 | 3 |
| GO:0042730//fibrinolysis | 7 | 3 |
| GO:0045091//regulation of retroviral genome replication | 7 | 3 |
| GO:0072102//glomerulus morphogenesis | 7 | 3 |
| GO:2000737//negative regulation of stem cell differentiation | 7 | 3 |
| GO:0035270//endocrine system development | 98 | 11 |
| GO:0010717//regulation of epithelial to mesenchymal transition | 34 | 6 |
| GO:0010863//positive regulation of phospholipase C activity | 58 | 8 |
| GO:0051179//localization | 3502 | 173 |
| GO:0033559//unsaturated fatty acid metabolic process | 85 | 10 |
| GO:0051248//negative regulation of protein metabolic process | 424 | 30 |
| GO:0051960//regulation of nervous system development | 369 | 27 |
| GO:0045600//positive regulation of fat cell differentiation | 24 | 5 |
| GO:0048599//oocyte development | 24 | 5 |
| GO:0007519//skeletal muscle tissue development | 100 | 11 |
| GO:0060326//cell chemotaxis | 100 | 11 |
| GO:0007166//cell surface receptor signaling pathway | 2334 | 121 |
| GO:0006956//complement activation | 86 | 10 |
| GO:0014033//neural crest cell differentiation | 59 | 8 |
| GO:0035239//tube morphogenesis | 263 | 21 |
| GO:0002686//negative regulation of leukocyte migration | 15 | 4 |
| GO:0071398//cellular response to fatty acid | 15 | 4 |
| GO:0006874//cellular calcium ion homeostasis | 195 | 17 |
| GO:0045685//regulation of glial cell differentiation | 35 | 6 |
| GO:0006006//glucose metabolic process | 131 | 13 |
| GO:0006720//isoprenoid metabolic process | 101 | 11 |
| GO:0019932//second-messenger-mediated signaling | 101 | 11 |
| GO:0031668//cellular response to extracellular stimulus | 101 | 11 |
| GO:0050708//regulation of protein secretion | 147 | 14 |
| GO:0019369//arachidonic acid metabolic process | 47 | 7 |
| GO:0030512//negative regulation of transforming growth factor beta receptor signaling pathway | 47 | 7 |
| GO:0030855//epithelial cell differentiation | 372 | 27 |
| GO:0006082//organic acid metabolic process | 880 | 53 |
| GO:0006898//receptor-mediated endocytosis | 87 | 10 |
| GO:0050818//regulation of coagulation | 60 | 8 |
| GO:0006869//lipid transport | 164 | 15 |

| | | |
|--|------|-----|
| GO:0016052//carbohydrate catabolic process | 102 | 11 |
| GO:0048011//neurotrophin TRK receptor signaling pathway | 197 | 17 |
| GO:0051173//positive regulation of nitrogen compound metabolic process | 1068 | 62 |
| GO:0009994//oocyte differentiation | 25 | 5 |
| GO:0072028//nephron morphogenesis | 25 | 5 |
| GO:0035051//cardiocyte differentiation | 74 | 9 |
| GO:0051480//cytosolic calcium ion homeostasis | 133 | 13 |
| GO:0048286//lung alveolus development | 36 | 6 |
| GO:0038179//neurotrophin signaling pathway | 198 | 17 |
| GO:0050806//positive regulation of synaptic transmission | 48 | 7 |
| GO:0072376//protein activation cascade | 103 | 11 |
| GO:0060255//regulation of macromolecule metabolic process | 4012 | 194 |
| GO:0060562//epithelial tube morphogenesis | 250 | 20 |
| GO:0003188//heart valve formation | 8 | 3 |
| GO:0003264//regulation of cardioblast proliferation | 8 | 3 |
| GO:0003266//regulation of secondary heart field cardioblast proliferation | 8 | 3 |
| GO:0010662//regulation of striated muscle cell apoptotic process | 8 | 3 |
| GO:0032487//regulation of Rap protein signal transduction | 8 | 3 |
| GO:0035413//positive regulation of catenin import into nucleus | 8 | 3 |
| GO:0045721//negative regulation of gluconeogenesis | 8 | 3 |
| GO:0060426//lung vasculature development | 8 | 3 |
| GO:0060484//lung-associated mesenchyme development | 8 | 3 |
| GO:0060670//branching involved in labyrinthine layer morphogenesis | 8 | 3 |
| GO:0061430//bone trabecula morphogenesis | 8 | 3 |
| GO:0045444//fat cell differentiation | 75 | 9 |
| GO:0090090//negative regulation of canonical Wnt receptor signaling pathway | 75 | 9 |
| GO:0031328//positive regulation of cellular biosynthetic process | 1137 | 65 |
| GO:0051150//regulation of smooth muscle cell differentiation | 16 | 4 |
| GO:0060669//embryonic placenta morphogenesis | 16 | 4 |
| GO:0072273//metanephric nephron morphogenesis | 16 | 4 |
| GO:0016051//carbohydrate biosynthetic process | 104 | 11 |
| GO:0043200//response to amino acid stimulus | 62 | 8 |
| GO:0048704//embryonic skeletal system morphogenesis | 62 | 8 |
| GO:1900274//regulation of phospholipase C activity | 62 | 8 |
| GO:0003044//regulation of systemic arterial blood pressure mediated by a c | 37 | 6 |
| GO:0050886//endocrine process | 37 | 6 |
| GO:0010628//positive regulation of gene expression | 973 | 57 |
| GO:0022411//cellular component disassembly | 184 | 16 |
| GO:0002682//regulation of immune system process | 994 | 58 |
| GO:0014910//regulation of smooth muscle cell migration | 26 | 5 |
| GO:0042517//positive regulation of tyrosine phosphorylation of Stat3 protein | 26 | 5 |
| GO:0072210//metanephric nephron development | 26 | 5 |
| GO:0070372//regulation of ERK1 and ERK2 cascade | 120 | 12 |
| GO:0019725//cellular homeostasis | 417 | 29 |
| GO:0030178//negative regulation of Wnt receptor signaling pathway | 105 | 11 |
| GO:0072503//cellular divalent inorganic cation homeostasis | 202 | 17 |
| GO:0044093//positive regulation of molecular function | 1039 | 60 |
| GO:0033500//carbohydrate homeostasis | 91 | 10 |
| GO:0034612//response to tumor necrosis factor | 91 | 10 |
| GO:0042593//glucose homeostasis | 91 | 10 |
| GO:0060041//retina development in camera-type eye | 91 | 10 |
| GO:0042493//response to drug | 290 | 22 |
| GO:0030100//regulation of endocytosis | 106 | 11 |
| GO:0050920//regulation of chemotaxis | 106 | 11 |
| GO:0001649//osteoblast differentiation | 50 | 7 |
| GO:0050654//chondroitin sulfate proteoglycan metabolic process | 50 | 7 |
| GO:0090183//regulation of kidney development | 50 | 7 |
| GO:0060193//positive regulation of lipase activity | 77 | 9 |

| | | |
|---|------|-----|
| GO:0030029//actin filament-based process | 291 | 22 |
| GO:0006081//cellular aldehyde metabolic process | 38 | 6 |
| GO:0008206//bile acid metabolic process | 38 | 6 |
| GO:0045840//positive regulation of mitosis | 38 | 6 |
| GO:0051785//positive regulation of nuclear division | 38 | 6 |
| GO:0032869//cellular response to insulin stimulus | 138 | 13 |
| GO:0060538//skeletal muscle organ development | 107 | 11 |
| GO:0001909//leukocyte mediated cytotoxicity | 27 | 5 |
| GO:0045445//myoblast differentiation | 27 | 5 |
| GO:0045604//regulation of epidermal cell differentiation | 27 | 5 |
| GO:0071322//cellular response to carbohydrate stimulus | 27 | 5 |
| GO:0001502//cartilage condensation | 17 | 4 |
| GO:0030728//ovulation | 17 | 4 |
| GO:0034694//response to prostaglandin stimulus | 17 | 4 |
| GO:0035909//aorta morphogenesis | 17 | 4 |
| GO:0045453//bone resorption | 17 | 4 |
| GO:0048710//regulation of astrocyte differentiation | 17 | 4 |
| GO:0006687//glycosphingolipid metabolic process | 64 | 8 |
| GO:0031323//regulation of cellular metabolic process | 4250 | 203 |
| GO:0006029//proteoglycan metabolic process | 78 | 9 |
| GO:0055074//calcium ion homeostasis | 205 | 17 |
| GO:0031330//negative regulation of cellular catabolic process | 51 | 7 |
| GO:0060341//regulation of cellular localization | 637 | 40 |
| GO:0007050//cell cycle arrest | 108 | 11 |
| GO:0010921//regulation of phosphatase activity | 93 | 10 |
| GO:0030036//actin cytoskeleton organization | 258 | 20 |
| GO:0001541//ovarian follicle development | 39 | 6 |
| GO:0010883//regulation of lipid storage | 39 | 6 |
| GO:0030509//BMP signaling pathway | 39 | 6 |
| GO:0010565//regulation of cellular ketone metabolic process | 124 | 12 |
| GO:0014812//muscle cell migration | 9 | 3 |
| GO:0014829//vascular smooth muscle contraction | 9 | 3 |
| GO:0019852//L-ascorbic acid metabolic process | 9 | 3 |
| GO:0030647//aminoglycoside antibiotic metabolic process | 9 | 3 |
| GO:0034383//low-density lipoprotein particle clearance | 9 | 3 |
| GO:0044597//daunorubicin metabolic process | 9 | 3 |
| GO:0044598//doxorubicin metabolic process | 9 | 3 |
| GO:0045986//negative regulation of smooth muscle contraction | 9 | 3 |
| GO:0048617//embryonic foregut morphogenesis | 9 | 3 |
| GO:0048711//positive regulation of astrocyte differentiation | 9 | 3 |
| GO:0048715//negative regulation of oligodendrocyte differentiation | 9 | 3 |
| GO:0061036//positive regulation of cartilage development | 9 | 3 |
| GO:NR_0014 | 9 | 3 |
| GO:0010035//response to inorganic substance | 259 | 20 |
| GO:0051897//positive regulation of protein kinase B signaling cascade | 65 | 8 |
| GO:0031346//positive regulation of cell projection organization | 109 | 11 |
| GO:0045786//negative regulation of cell cycle | 191 | 16 |
| GO:0006940//regulation of smooth muscle contraction | 40 | 6 |
| GO:0051149//positive regulation of muscle cell differentiation | 40 | 6 |
| GO:0001516//prostaglandin biosynthetic process | 18 | 4 |
| GO:0002090//regulation of receptor internalization | 18 | 4 |
| GO:0010714//positive regulation of collagen metabolic process | 18 | 4 |
| GO:0032967//positive regulation of collagen biosynthetic process | 18 | 4 |
| GO:0046457//prostanoid biosynthetic process | 18 | 4 |
| GO:0048713//regulation of oligodendrocyte differentiation | 18 | 4 |
| GO:0060343//trabecula formation | 18 | 4 |
| GO:0006469//negative regulation of protein kinase activity | 142 | 13 |
| GO:0033554//cellular response to stress | 951 | 55 |

| | | |
|--|-----|----|
| GO:0000302//response to reactive oxygen species | 111 | 11 |
| GO:0009890//negative regulation of biosynthetic process | 932 | 54 |
| GO:0022612//gland morphogenesis | 96 | 10 |
| GO:0050714//positive regulation of protein secretion | 96 | 10 |
| GO:0001889//liver development | 67 | 8 |
| GO:0002697//regulation of immune effector process | 264 | 20 |
| GO:0010770//positive regulation of cell morphogenesis involved in differenti | 29 | 5 |
| GO:0042516//regulation of tyrosine phosphorylation of Stat3 protein | 29 | 5 |
| GO:2000243//positive regulation of reproductive process | 29 | 5 |
| GO:0002237//response to molecule of bacterial origin | 194 | 16 |
| GO:0035303//regulation of dephosphorylation | 112 | 11 |
| GO:0007162//negative regulation of cell adhesion | 82 | 9 |
| GO:0032526//response to retinoic acid | 97 | 10 |
| GO:0050707//regulation of cytokine secretion | 97 | 10 |
| GO:0055001//muscle cell development | 97 | 10 |
| GO:0046883//regulation of hormone secretion | 161 | 14 |
| GO:0072507//divalent inorganic cation homeostasis | 213 | 17 |
| GO:0006955//immune response | 918 | 53 |
| GO:0035904//aorta development | 19 | 4 |
| GO:0043618//regulation of transcription from RNA polymerase II promoter in | 19 | 4 |
| GO:0061178//regulation of insulin secretion involved in cellular response to | 19 | 4 |
| GO:0070306//lens fiber cell differentiation | 19 | 4 |
| GO:0001542//ovulation from ovarian follicle | 10 | 3 |
| GO:0007440//foregut morphogenesis | 10 | 3 |
| GO:0010866//regulation of triglyceride biosynthetic process | 10 | 3 |
| GO:0046033//AMP metabolic process | 10 | 3 |
| GO:1900115//extracellular regulation of signal transduction | 10 | 3 |
| GO:1900116//extracellular negative regulation of signal transduction | 10 | 3 |
| GO:0010001//glial cell differentiation | 98 | 10 |
| GO:0031327//negative regulation of cellular biosynthetic process | 919 | 53 |
| GO:0030193//regulation of blood coagulation | 55 | 7 |
| GO:1900046//regulation of hemostasis | 55 | 7 |
| GO:0032835//glomerulus development | 42 | 6 |
| GO:0045428//regulation of nitric oxide biosynthetic process | 42 | 6 |
| GO:0061097//regulation of protein tyrosine kinase activity | 42 | 6 |
| GO:0015758//glucose transport | 30 | 5 |
| GO:0010594//regulation of endothelial cell migration | 69 | 8 |
| GO:0061008//hepaticobiliary system development | 69 | 8 |
| GO:0071356//cellular response to tumor necrosis factor | 69 | 8 |
| GO:0016265//death | 735 | 44 |
| GO:0009617//response to bacterium | 323 | 23 |
| GO:0009894//regulation of catabolic process | 535 | 34 |
| GO:0008202//steroid metabolic process | 215 | 17 |
| GO:0050767//regulation of neurogenesis | 324 | 23 |
| GO:0034097//response to cytokine stimulus | 458 | 30 |
| GO:0010469//regulation of receptor activity | 56 | 7 |
| GO:0090288//negative regulation of cellular response to growth factor stimu | 70 | 8 |
| GO:0050801//ion homeostasis | 382 | 26 |
| GO:0008610//lipid biosynthetic process | 459 | 30 |
| GO:0046456//icosanoid biosynthetic process | 43 | 6 |
| GO:0048477//oogenesis | 43 | 6 |
| GO:1901570//fatty acid derivative biosynthetic process | 43 | 6 |
| GO:0042594//response to starvation | 85 | 9 |
| GO:0006790//sulfur compound metabolic process | 217 | 17 |
| GO:0006801//superoxide metabolic process | 31 | 5 |
| GO:0051148//negative regulation of muscle cell differentiation | 31 | 5 |
| GO:0003179//heart valve morphogenesis | 20 | 4 |
| GO:0007176//regulation of epidermal growth factor-activated receptor activi | 20 | 4 |

| | | |
|--|------|----|
| GO:0035020//regulation of Rac protein signal transduction | 20 | 4 |
| GO:0035924//cellular response to vascular endothelial growth factor stimulus | 20 | 4 |
| GO:0007420//brain development | 422 | 28 |
| GO:1901214//regulation of neuron death | 149 | 13 |
| GO:0046903//secretion | 403 | 27 |
| GO:0006508//proteolysis | 826 | 48 |
| GO:0033673//negative regulation of kinase activity | 150 | 13 |
| GO:0032496//response to lipopolysaccharide | 184 | 15 |
| GO:0030166//proteoglycan biosynthetic process | 44 | 6 |
| GO:0033273//response to vitamin | 44 | 6 |
| GO:0042531//positive regulation of tyrosine phosphorylation of STAT protein | 44 | 6 |
| GO:0097006//regulation of plasma lipoprotein particle levels | 44 | 6 |
| GO:2000648//positive regulation of stem cell proliferation | 44 | 6 |
| GO:0002685//regulation of leukocyte migration | 102 | 10 |
| GO:0008016//regulation of heart contraction | 102 | 10 |
| GO:0009950//dorsal/ventral axis specification | 11 | 3 |
| GO:0010510//regulation of acetyl-CoA biosynthetic process from pyruvate | 11 | 3 |
| GO:0043116//negative regulation of vascular permeability | 11 | 3 |
| GO:0045606//positive regulation of epidermal cell differentiation | 11 | 3 |
| GO:0050812//regulation of acyl-CoA biosynthetic process | 11 | 3 |
| GO:0060841//venous blood vessel development | 11 | 3 |
| GO:0022604//regulation of cell morphogenesis | 256 | 19 |
| GO:0001974//blood vessel remodeling | 32 | 5 |
| GO:0001990//regulation of systemic arterial blood pressure by hormone | 32 | 5 |
| GO:0008645//hexose transport | 32 | 5 |
| GO:0030850//prostate gland development | 32 | 5 |
| GO:0045599//negative regulation of fat cell differentiation | 32 | 5 |
| GO:0046677//response to antibiotic | 32 | 5 |
| GO:0051145//smooth muscle cell differentiation | 32 | 5 |
| GO:0007517//muscle organ development | 203 | 16 |
| GO:0010558//negative regulation of macromolecule biosynthetic process | 872 | 50 |
| GO:0010557//positive regulation of macromolecule biosynthetic process | 1062 | 59 |
| GO:0010741//negative regulation of intracellular protein kinase cascade | 119 | 11 |
| GO:0034329//cell junction assembly | 119 | 11 |
| GO:0010769//regulation of cell morphogenesis involved in differentiation | 152 | 13 |
| GO:0055065//metal ion homeostasis | 313 | 22 |
| GO:0003170//heart valve development | 21 | 4 |
| GO:0003338//metanephros morphogenesis | 21 | 4 |
| GO:0008207//C21-steroid hormone metabolic process | 21 | 4 |
| GO:0023014//signal transduction by phosphorylation | 21 | 4 |
| GO:0035412//regulation of catenin import into nucleus | 21 | 4 |
| GO:0040036//regulation of fibroblast growth factor receptor signaling pathway | 21 | 4 |
| GO:0045687//positive regulation of glial cell differentiation | 21 | 4 |
| GO:0060674//placenta blood vessel development | 21 | 4 |
| GO:0090263//positive regulation of canonical Wnt receptor signaling pathway | 45 | 6 |
| GO:0009746//response to hexose stimulus | 73 | 8 |
| GO:0055088//lipid homeostasis | 88 | 9 |
| GO:0043086//negative regulation of catalytic activity | 507 | 32 |
| GO:0010876//lipid localization | 187 | 15 |
| GO:0045944//positive regulation of transcription from RNA polymerase II promoter | 628 | 38 |
| GO:1901566//organonitrogen compound biosynthetic process | 508 | 32 |
| GO:0042306//regulation of protein import into nucleus | 120 | 11 |
| GO:0048871//multicellular organismal homeostasis | 120 | 11 |
| GO:0001837//epithelial to mesenchymal transition | 33 | 5 |
| GO:0007566//embryo implantation | 33 | 5 |
| GO:0032147//activation of protein kinase activity | 206 | 16 |
| GO:0008219//cell death | 733 | 43 |
| GO:0045935//positive regulation of nucleobase-containing compound metabolism | 1048 | 58 |

| | | |
|--|-----|----|
| GO:0046364//monosaccharide biosynthetic process | 46 | 6 |
| GO:0048738//cardiac muscle tissue development | 105 | 10 |
| GO:0032787//monocarboxylic acid metabolic process | 374 | 25 |
| GO:0043523//regulation of neuron apoptotic process | 138 | 12 |
| GO:0050796//regulation of insulin secretion | 122 | 11 |
| GO:2001020//regulation of response to DNA damage stimulus | 75 | 8 |
| GO:0010574//regulation of vascular endothelial growth factor production | 22 | 4 |
| GO:0031952//regulation of protein autophosphorylation | 22 | 4 |
| GO:0042481//regulation of odontogenesis | 22 | 4 |
| GO:0043620//regulation of DNA-dependent transcription in response to stre | 22 | 4 |
| GO:0045661//regulation of myoblast differentiation | 22 | 4 |
| GO:0050873//brown fat cell differentiation | 22 | 4 |
| GO:0071326//cellular response to monosaccharide stimulus | 22 | 4 |
| GO:0072088//nephron epithelium morphogenesis | 22 | 4 |
| GO:0072676//lymphocyte migration | 22 | 4 |
| GO:0016331//morphogenesis of embryonic epithelium | 106 | 10 |
| GO:0044272//sulfur compound biosynthetic process | 106 | 10 |
| GO:0000303//response to superoxide | 12 | 3 |
| GO:0019371//cyclooxygenase pathway | 12 | 3 |
| GO:0019433//triglyceride catabolic process | 12 | 3 |
| GO:0030502//negative regulation of bone mineralization | 12 | 3 |
| GO:0031954//positive regulation of protein autophosphorylation | 12 | 3 |
| GO:0034204//lipid translocation | 12 | 3 |
| GO:0043584//nose development | 12 | 3 |
| GO:0045332//phospholipid translocation | 12 | 3 |
| GO:0051193//regulation of cofactor metabolic process | 12 | 3 |
| GO:0051196//regulation of coenzyme metabolic process | 12 | 3 |
| GO:0072075//metanephric mesenchyme development | 12 | 3 |
| GO:2000136//regulation of cell proliferation involved in heart morphogenesis | 12 | 3 |
| GO:0010812//negative regulation of cell-substrate adhesion | 34 | 5 |
| GO:0015749//monosaccharide transport | 34 | 5 |
| GO:0001756//somitogenesis | 47 | 6 |
| GO:0042058//regulation of epidermal growth factor receptor signaling pathw | 47 | 6 |
| GO:0050776//regulation of immune response | 656 | 39 |
| GO:0048520//positive regulation of behavior | 91 | 9 |
| GO:0070374//positive regulation of ERK1 and ERK2 cascade | 91 | 9 |
| GO:0001101//response to acid | 76 | 8 |
| GO:1901137//carbohydrate derivative biosynthetic process | 476 | 30 |
| GO:0051051//negative regulation of transport | 265 | 19 |
| GO:1900180//regulation of protein localization to nucleus | 124 | 11 |
| GO:0008203//cholesterol metabolic process | 92 | 9 |
| GO:0008283//cell proliferation | 438 | 28 |
| GO:0035282//segmentation | 62 | 7 |
| GO:0043085//positive regulation of catalytic activity | 868 | 49 |
| GO:0014013//regulation of gliogenesis | 48 | 6 |
| GO:0030204//chondroitin sulfate metabolic process | 48 | 6 |
| GO:0042509//regulation of tyrosine phosphorylation of STAT protein | 48 | 6 |
| GO:0045682//regulation of epidermis development | 48 | 6 |
| GO:1901184//regulation of ERBB signaling pathway | 48 | 6 |
| GO:0032269//negative regulation of cellular protein metabolic process | 361 | 24 |
| GO:0019229//regulation of vasoconstriction | 35 | 5 |
| GO:0045778//positive regulation of ossification | 35 | 5 |
| GO:0072009//nephron epithelium development | 35 | 5 |
| GO:0031069//hair follicle morphogenesis | 23 | 4 |
| GO:0061098//positive regulation of protein tyrosine kinase activity | 23 | 4 |
| GO:0002683//negative regulation of immune system process | 194 | 15 |
| GO:0071375//cellular response to peptide hormone stimulus | 194 | 15 |
| GO:1901653//cellular response to peptide | 194 | 15 |

| | | |
|--|------|----|
| GO:0006875//cellular metal ion homeostasis | 267 | 19 |
| GO:0001894//tissue homeostasis | 93 | 9 |
| GO:0045892//negative regulation of transcription, DNA-dependent | 745 | 43 |
| GO:0001817//regulation of cytokine production | 402 | 26 |
| GO:0022857//transmembrane transporter activity | 582 | 35 |
| GO:0016266//O-glycan processing | 49 | 6 |
| GO:0002092//positive regulation of receptor internalization | 13 | 3 |
| GO:0007567//parturition | 13 | 3 |
| GO:0010611//regulation of cardiac muscle hypertrophy | 13 | 3 |
| GO:0032924//activin receptor signaling pathway | 13 | 3 |
| GO:0046461//neutral lipid catabolic process | 13 | 3 |
| GO:0046464//acylglycerol catabolic process | 13 | 3 |
| GO:0061418//regulation of transcription from RNA polymerase II promoter in | 13 | 3 |
| GO:1901215//negative regulation of neuron death | 94 | 9 |
| GO:0071345//cellular response to cytokine stimulus | 384 | 25 |
| GO:0051348//negative regulation of transferase activity | 161 | 13 |
| GO:0005215//transporter activity | 585 | 35 |
| GO:0018209//peptidyl-serine modification | 64 | 7 |
| GO:0019722//calcium-mediated signaling | 64 | 7 |
| GO:0010743//regulation of macrophage derived foam cell differentiation | 24 | 4 |
| GO:0018149//peptide cross-linking | 24 | 4 |
| GO:0042246//tissue regeneration | 24 | 4 |
| GO:0044060//regulation of endocrine process | 24 | 4 |
| GO:0044253//positive regulation of multicellular organismal metabolic proce | 24 | 4 |
| GO:0050650//chondroitin sulfate proteoglycan biosynthetic process | 24 | 4 |
| GO:0050769//positive regulation of neurogenesis | 95 | 9 |
| GO:0006629//lipid metabolic process | 1005 | 55 |
| GO:0003008//system process | 1749 | 89 |
| GO:0003337//mesenchymal to epithelial transition involved in metanephros | 5 | 2 |
| GO:0010667//negative regulation of cardiac muscle cell apoptotic process | 5 | 2 |
| GO:0014824//artery smooth muscle contraction | 5 | 2 |
| GO:0014909//smooth muscle cell migration | 5 | 2 |
| GO:0016553//base conversion or substitution editing | 5 | 2 |
| GO:0018401//peptidyl-proline hydroxylation to 4-hydroxy-L-proline | 5 | 2 |
| GO:0030859//polarized epithelial cell differentiation | 5 | 2 |
| GO:0030913//paranodal junction assembly | 5 | 2 |
| GO:0032430//positive regulation of phospholipase A2 activity | 5 | 2 |
| GO:0032486//Rap protein signal transduction | 5 | 2 |
| GO:0034144//negative regulation of toll-like receptor 4 signaling pathway | 5 | 2 |
| GO:0034392//negative regulation of smooth muscle cell apoptotic process | 5 | 2 |
| GO:0035581//sequestering of extracellular ligand from receptor | 5 | 2 |
| GO:0035989//tendon development | 5 | 2 |
| GO:0035990//tendon cell differentiation | 5 | 2 |
| GO:0035992//tendon formation | 5 | 2 |
| GO:0043619//regulation of transcription from RNA polymerase II promoter in | 5 | 2 |
| GO:0044252//negative regulation of multicellular organismal metabolic proc | 5 | 2 |
| GO:0045722//positive regulation of gluconeogenesis | 5 | 2 |
| GO:0046880//regulation of follicle-stimulating hormone secretion | 5 | 2 |
| GO:0060394//negative regulation of pathway-restricted SMAD protein phos | 5 | 2 |
| GO:0060501//positive regulation of epithelial cell proliferation involved in lur | 5 | 2 |
| GO:0060526//prostate glandular acinus morphogenesis | 5 | 2 |
| GO:0060527//prostate epithelial cord arborization involved in prostate gland | 5 | 2 |
| GO:0060665//regulation of branching involved in salivary gland morphogen | 5 | 2 |
| GO:0060856//establishment of blood-brain barrier | 5 | 2 |
| GO:0061045//negative regulation of wound healing | 5 | 2 |
| GO:0061307//cardiac neural crest cell differentiation involved in heart devel | 5 | 2 |
| GO:0071318//cellular response to ATP | 5 | 2 |
| GO:0071637//regulation of monocyte chemotactic protein-1 production | 5 | 2 |

| | | |
|---|-------|-----|
| GO:0072050//S-shaped body morphogenesis | 5 | 2 |
| GO:0097070//ductus arteriosus closure | 5 | 2 |
| GO:0097084//vascular smooth muscle cell development | 5 | 2 |
| GO:2000727//positive regulation of cardiac muscle cell differentiation | 5 | 2 |
| GO:0052547//regulation of peptidase activity | 271 | 19 |
| GO:0045893//positive regulation of transcription, DNA-dependent | 899 | 50 |
| GO:0051969//regulation of transmission of nerve impulse | 180 | 14 |
| GO:0032940//secretion by cell | 329 | 22 |
| GO:0052548//regulation of endopeptidase activity | 235 | 17 |
| GO:0055080//cation homeostasis | 349 | 23 |
| GO:1901615//organic hydroxy compound metabolic process | 349 | 23 |
| GO:0030177//positive regulation of Wnt receptor signaling pathway | 65 | 7 |
| GO:0042307//positive regulation of protein import into nucleus | 65 | 7 |
| GO:0044255//cellular lipid metabolic process | 776 | 44 |
| GO:0044765//single-organism transport | 2250 | 111 |
| GO:0032504//multicellular organism reproduction | 590 | 35 |
| GO:0008150//biological_process | 14755 | 617 |
| GO:0060627//regulation of vesicle-mediated transport | 200 | 15 |
| GO:0006811//ion transport | 947 | 52 |
| GO:0010629//negative regulation of gene expression | 820 | 46 |
| GO:0016125//sterol metabolic process | 97 | 9 |
| GO:0002456//T cell mediated immunity | 25 | 4 |
| GO:0007157//heterophilic cell-cell adhesion | 25 | 4 |
| GO:0043114//regulation of vascular permeability | 25 | 4 |
| GO:0045123//cellular extravasation | 25 | 4 |
| GO:0045684//positive regulation of epidermis development | 25 | 4 |
| GO:0002576//platelet degranulation | 66 | 7 |
| GO:0001935//endothelial cell proliferation | 14 | 3 |
| GO:0007520//myoblast fusion | 14 | 3 |
| GO:0008347//glial cell migration | 14 | 3 |
| GO:0010623//developmental programmed cell death | 14 | 3 |
| GO:0010955//negative regulation of protein processing | 14 | 3 |
| GO:0014743//regulation of muscle hypertrophy | 14 | 3 |
| GO:0014911//positive regulation of smooth muscle cell migration | 14 | 3 |
| GO:0016137//glycoside metabolic process | 14 | 3 |
| GO:0032148//activation of protein kinase B activity | 14 | 3 |
| GO:0032288//myelin assembly | 14 | 3 |
| GO:0033280//response to vitamin D | 14 | 3 |
| GO:0042448//progesterone metabolic process | 14 | 3 |
| GO:0042554//superoxide anion generation | 14 | 3 |
| GO:0045932//negative regulation of muscle contraction | 14 | 3 |
| GO:0046697//decidualization | 14 | 3 |
| GO:0048857//neural nucleus development | 14 | 3 |
| GO:0060037//pharyngeal system development | 14 | 3 |
| GO:0060571//morphogenesis of an epithelial fold | 14 | 3 |
| GO:0060716//labyrinthine layer blood vessel development | 14 | 3 |
| GO:0072074//kidney mesenchyme development | 14 | 3 |
| GO:0010676//positive regulation of cellular carbohydrate metabolic process | 38 | 5 |
| GO:0033628//regulation of cell adhesion mediated by integrin | 38 | 5 |
| GO:0050710//negative regulation of cytokine secretion | 38 | 5 |
| GO:0060993//kidney morphogenesis | 38 | 5 |
| GO:0050921//positive regulation of chemotaxis | 82 | 8 |
| GO:0008277//regulation of G-protein coupled receptor protein signaling path | 98 | 9 |
| GO:0046427//positive regulation of JAK-STAT cascade | 52 | 6 |
| GO:0051090//regulation of sequence-specific DNA binding transcription fac | 296 | 20 |
| GO:0002688//regulation of leukocyte chemotaxis | 67 | 7 |
| GO:0006493//protein O-linked glycosylation | 67 | 7 |
| GO:0009267//cellular response to starvation | 67 | 7 |

| | | |
|--|-----|----|
| GO:0009953//dorsal/ventral pattern formation | 67 | 7 |
| GO:0009636//response to toxic substance | 115 | 10 |
| GO:0051048//negative regulation of secretion | 132 | 11 |
| GO:0090276//regulation of peptide hormone secretion | 132 | 11 |
| GO:0045664//regulation of neuron differentiation | 259 | 18 |
| GO:0043627//response to estrogen stimulus | 99 | 9 |
| GO:0046890//regulation of lipid biosynthetic process | 99 | 9 |
| GO:0001816//cytokine production | 83 | 8 |
| GO:0009791//post-embryonic development | 83 | 8 |
| GO:0002886//regulation of myeloid leukocyte mediated immunity | 26 | 4 |
| GO:0030279//negative regulation of ossification | 26 | 4 |
| GO:0030514//negative regulation of BMP signaling pathway | 26 | 4 |
| GO:0034381//plasma lipoprotein particle clearance | 26 | 4 |
| GO:0042312//regulation of vasodilation | 26 | 4 |
| GO:0090102//cochlea development | 26 | 4 |
| GO:0061053//somite development | 53 | 6 |
| GO:0072073//kidney epithelium development | 53 | 6 |
| GO:0046888//negative regulation of hormone secretion | 39 | 5 |
| GO:0031099//regeneration | 68 | 7 |
| GO:0072330//monocarboxylic acid biosynthetic process | 151 | 12 |
| GO:0006664//glycolipid metabolic process | 100 | 9 |
| GO:0048609//multicellular organismal reproductive process | 579 | 34 |
| GO:0055085//transmembrane transport | 788 | 44 |
| GO:0002791//regulation of peptide secretion | 134 | 11 |
| GO:0090087//regulation of peptide transport | 134 | 11 |
| GO:0000768//syncytium formation by plasma membrane fusion | 15 | 3 |
| GO:0001738//morphogenesis of a polarized epithelium | 15 | 3 |
| GO:0006688//glycosphingolipid biosynthetic process | 15 | 3 |
| GO:0010884//positive regulation of lipid storage | 15 | 3 |
| GO:0010922//positive regulation of phosphatase activity | 15 | 3 |
| GO:0019933//cAMP-mediated signaling | 15 | 3 |
| GO:0031670//cellular response to nutrient | 15 | 3 |
| GO:0033137//negative regulation of peptidyl-serine phosphorylation | 15 | 3 |
| GO:0050746//regulation of lipoprotein metabolic process | 15 | 3 |
| GO:0060291//long-term synaptic potentiation | 15 | 3 |
| GO:0060479//lung cell differentiation | 15 | 3 |
| GO:0070741//response to interleukin-6 | 15 | 3 |
| GO:2000826//regulation of heart morphogenesis | 15 | 3 |
| GO:0002252//immune effector process | 378 | 24 |
| GO:0051346//negative regulation of hydrolase activity | 262 | 18 |
| GO:0022891//substrate-specific transmembrane transporter activity | 581 | 34 |
| GO:0051253//negative regulation of RNA metabolic process | 769 | 43 |
| GO:0007422//peripheral nervous system development | 69 | 7 |
| GO:0009266//response to temperature stimulus | 101 | 9 |
| GO:0044283//small molecule biosynthetic process | 379 | 24 |
| GO:0007603//phototransduction, visible light | 54 | 6 |
| GO:0060070//canonical Wnt receptor signaling pathway | 54 | 6 |
| GO:0001508//regulation of action potential | 118 | 10 |
| GO:0007160//cell-matrix adhesion | 85 | 8 |
| GO:0002138//retinoic acid biosynthetic process | 6 | 2 |
| GO:0007223//Wnt receptor signaling pathway, calcium modulating pathway | 6 | 2 |
| GO:0010761//fibroblast migration | 6 | 2 |
| GO:0010871//negative regulation of receptor biosynthetic process | 6 | 2 |
| GO:0010886//positive regulation of cholesterol storage | 6 | 2 |
| GO:0014820//tonic smooth muscle contraction | 6 | 2 |
| GO:0016264//gap junction assembly | 6 | 2 |
| GO:0019800//peptide cross-linking via chondroitin 4-sulfate glycosaminogly | 6 | 2 |
| GO:0030299//intestinal cholesterol absorption | 6 | 2 |

| | | |
|--|-----|----|
| GO:0032682//negative regulation of chemokine production | 6 | 2 |
| GO:0033004//negative regulation of mast cell activation | 6 | 2 |
| GO:0033690//positive regulation of osteoblast proliferation | 6 | 2 |
| GO:0043301//negative regulation of leukocyte degranulation | 6 | 2 |
| GO:0060059//embryonic retina morphogenesis in camera-type eye | 6 | 2 |
| GO:0060373//regulation of ventricular cardiac muscle cell membrane depolarization | 6 | 2 |
| GO:0060666//dichotomous subdivision of terminal units involved in salivary gland morphogenesis | 6 | 2 |
| GO:0070102//interleukin-6-mediated signaling pathway | 6 | 2 |
| GO:0070141//response to UV-A | 6 | 2 |
| GO:0072109//glomerular mesangium development | 6 | 2 |
| GO:0072141//renal interstitial cell development | 6 | 2 |
| GO:0072239//metanephric glomerulus vasculature development | 6 | 2 |
| GO:0086014//regulation of atrial cardiac muscle cell action potential | 6 | 2 |
| GO:0086026//atrial cardiac muscle cell to AV node cell signaling | 6 | 2 |
| GO:0086066//atrial cardiac muscle cell to AV node cell communication | 6 | 2 |
| GO:1900407//regulation of cellular response to oxidative stress | 6 | 2 |
| GO:1901031//regulation of response to reactive oxygen species | 6 | 2 |
| GO:2000794//regulation of epithelial cell proliferation involved in lung morphogenesis | 6 | 2 |
| GO:0045165//cell fate commitment | 189 | 14 |
| GO:0010907//positive regulation of glucose metabolic process | 27 | 4 |
| GO:0042059//negative regulation of epidermal growth factor receptor signaling pathway | 27 | 4 |
| GO:0045933//positive regulation of muscle contraction | 27 | 4 |
| GO:0048730//epidermis morphogenesis | 27 | 4 |
| GO:0061383//trabecula morphogenesis | 27 | 4 |
| GO:1901185//negative regulation of ERBB signaling pathway | 27 | 4 |
| GO:0022892//substrate-specific transporter activity | 583 | 34 |
| GO:0071216//cellular response to biotic stimulus | 102 | 9 |
| GO:2000113//negative regulation of cellular macromolecule biosynthetic process | 837 | 46 |
| GO:0010466//negative regulation of peptidase activity | 154 | 12 |
| GO:0016787//hydrolase activity | 154 | 12 |
| GO:0042471//ear morphogenesis | 86 | 8 |
| GO:0021675//nerve development | 55 | 6 |
| GO:0031644//regulation of neurological system process | 191 | 14 |
| GO:0051493//regulation of cytoskeleton organization | 247 | 17 |
| GO:0019319//hexose biosynthetic process | 41 | 5 |
| GO:0044092//negative regulation of molecular function | 650 | 37 |
| GO:0009749//response to glucose stimulus | 71 | 7 |
| GO:0042476//odontogenesis | 71 | 7 |
| GO:0034754//cellular hormone metabolic process | 87 | 8 |
| GO:0001991//regulation of systemic arterial blood pressure by circulatory system | 16 | 3 |
| GO:0010830//regulation of myotube differentiation | 16 | 3 |
| GO:0010869//regulation of receptor biosynthetic process | 16 | 3 |
| GO:0042474//middle ear morphogenesis | 16 | 3 |
| GO:0045686//negative regulation of glial cell differentiation | 16 | 3 |
| GO:0048247//lymphocyte chemotaxis | 16 | 3 |
| GO:0050892//intestinal absorption | 16 | 3 |
| GO:0060693//regulation of branching involved in salivary gland morphogenesis | 16 | 3 |
| GO:0072078//nephron tubule morphogenesis | 16 | 3 |
| GO:0097035//regulation of membrane lipid distribution | 16 | 3 |
| GO:0043551//regulation of phosphatidylinositol 3-kinase activity | 28 | 4 |
| GO:0048662//negative regulation of smooth muscle cell proliferation | 28 | 4 |
| GO:0050766//positive regulation of phagocytosis | 28 | 4 |
| GO:0061005//cell differentiation involved in kidney development | 28 | 4 |
| GO:0007043//cell-cell junction assembly | 56 | 6 |
| GO:0007613//memory | 56 | 6 |
| GO:0016525//negative regulation of angiogenesis | 56 | 6 |
| GO:0018958//phenol-containing compound metabolic process | 56 | 6 |
| GO:0019217//regulation of fatty acid metabolic process | 56 | 6 |

| | | |
|--|-----|----|
| GO:0050880//regulation of blood vessel size | 56 | 6 |
| GO:0034599//cellular response to oxidative stress | 104 | 9 |
| GO:0033043//regulation of organelle organization | 487 | 29 |
| GO:0046822//regulation of nucleocytoplasmic transport | 139 | 11 |
| GO:0043409//negative regulation of MAPK cascade | 88 | 8 |
| GO:0043524//negative regulation of neuron apoptotic process | 88 | 8 |
| GO:0001676//long-chain fatty acid metabolic process | 72 | 7 |
| GO:0051254//positive regulation of RNA metabolic process | 931 | 50 |
| GO:0030003//cellular cation homeostasis | 289 | 19 |
| GO:0010634//positive regulation of epithelial cell migration | 57 | 6 |
| GO:0035150//regulation of tube size | 57 | 6 |
| GO:0006805//xenobiotic metabolic process | 140 | 11 |
| GO:0044711//single-organism biosynthetic process | 388 | 24 |
| GO:0055002//striated muscle cell development | 89 | 8 |
| GO:0010951//negative regulation of endopeptidase activity | 123 | 10 |
| GO:0001657//ureteric bud development | 73 | 7 |
| GO:0046824//positive regulation of nucleocytoplasmic transport | 73 | 7 |
| GO:0003156//regulation of organ formation | 29 | 4 |
| GO:0003333//amino acid transmembrane transport | 29 | 4 |
| GO:0006584//catecholamine metabolic process | 29 | 4 |
| GO:0009712//catechol-containing compound metabolic process | 29 | 4 |
| GO:0009954//proximal/distal pattern formation | 29 | 4 |
| GO:0014015//positive regulation of gliogenesis | 29 | 4 |
| GO:0045168//cell-cell signaling involved in cell fate commitment | 29 | 4 |
| GO:0051004//regulation of lipoprotein lipase activity | 29 | 4 |
| GO:0061326//renal tubule development | 29 | 4 |
| GO:0071622//regulation of granulocyte chemotaxis | 29 | 4 |
| GO:0072080//nephron tubule development | 29 | 4 |
| GO:1901888//regulation of cell junction assembly | 29 | 4 |
| GO:0008286//insulin receptor signaling pathway | 106 | 9 |
| GO:0048015//phosphatidylinositol-mediated signaling | 106 | 9 |
| GO:0048017//inositol lipid-mediated signaling | 106 | 9 |
| GO:0051726//regulation of cell cycle | 657 | 37 |
| GO:0071466//cellular response to xenobiotic stimulus | 141 | 11 |
| GO:0032872//regulation of stress-activated MAPK cascade | 159 | 12 |
| GO:0001906//cell killing | 43 | 5 |
| GO:0006949//syncytium formation | 17 | 3 |
| GO:0042573//retinoic acid metabolic process | 17 | 3 |
| GO:0045909//positive regulation of vasodilation | 17 | 3 |
| GO:0046503//glycerolipid catabolic process | 17 | 3 |
| GO:0060441//epithelial tube branching involved in lung morphogenesis | 17 | 3 |
| GO:0072215//regulation of metanephros development | 17 | 3 |
| GO:0090103//cochlea morphogenesis | 17 | 3 |
| GO:2000209//regulation of anoikis | 17 | 3 |
| GO:0046470//phosphatidylcholine metabolic process | 58 | 6 |
| GO:0003256//regulation of transcription from RNA polymerase II promoter ii | 7 | 2 |
| GO:0006030//chitin metabolic process | 7 | 2 |
| GO:0006032//chitin catabolic process | 7 | 2 |
| GO:0010042//response to manganese ion | 7 | 2 |
| GO:0010269//response to selenium ion | 7 | 2 |
| GO:0010613//positive regulation of cardiac muscle hypertrophy | 7 | 2 |
| GO:0010664//negative regulation of striated muscle cell apoptotic process | 7 | 2 |
| GO:0010832//negative regulation of myotube differentiation | 7 | 2 |
| GO:0014742//positive regulation of muscle hypertrophy | 7 | 2 |
| GO:0016102//diterpenoid biosynthetic process | 7 | 2 |
| GO:0032354//response to follicle-stimulating hormone stimulus | 7 | 2 |
| GO:0032909//regulation of transforming growth factor beta2 production | 7 | 2 |
| GO:0035089//establishment of apical/basal cell polarity | 7 | 2 |

| | | |
|---|-----|----|
| GO:0044320//cellular response to leptin stimulus | 7 | 2 |
| GO:0045603//positive regulation of endothelial cell differentiation | 7 | 2 |
| GO:0051890//regulation of cardioblast differentiation | 7 | 2 |
| GO:0060307//regulation of ventricular cardiac muscle cell membrane repolarization | 7 | 2 |
| GO:0060371//regulation of atrial cardiac muscle cell membrane depolarization | 7 | 2 |
| GO:0060572//morphogenesis of an epithelial bud | 7 | 2 |
| GO:0070208//protein heterotrimerization | 7 | 2 |
| GO:0072071//renal interstitial cell differentiation | 7 | 2 |
| GO:0072077//renal vesicle morphogenesis | 7 | 2 |
| GO:0072283//metanephric renal vesicle morphogenesis | 7 | 2 |
| GO:2001015//negative regulation of skeletal muscle cell differentiation | 7 | 2 |
| GO:NM_0142 | 7 | 2 |
| GO:0051172//negative regulation of nitrogen compound metabolic process | 873 | 47 |
| GO:0019752//carboxylic acid metabolic process | 766 | 42 |
| GO:0070302//regulation of stress-activated protein kinase signaling cascade | 160 | 12 |
| GO:0007229//integrin-mediated signaling pathway | 74 | 7 |
| GO:0031400//negative regulation of protein modification process | 273 | 18 |
| GO:0051345//positive regulation of hydrolase activity | 473 | 28 |
| GO:0048754//branching morphogenesis of an epithelial tube | 125 | 10 |
| GO:0009410//response to xenobiotic stimulus | 143 | 11 |
| GO:0019835//cytolysis | 30 | 4 |
| GO:0031076//embryonic camera-type eye development | 30 | 4 |
| GO:0060425//lung morphogenesis | 30 | 4 |
| GO:0042490//mechanoreceptor differentiation | 44 | 5 |
| GO:0048663//neuron fate commitment | 44 | 5 |
| GO:2000241//regulation of reproductive process | 75 | 7 |
| GO:0010038//response to metal ion | 180 | 13 |
| GO:0009100//glycoprotein metabolic process | 315 | 20 |
| GO:0007088//regulation of mitosis | 92 | 8 |
| GO:0051783//regulation of nuclear division | 92 | 8 |
| GO:0071219//cellular response to molecule of bacterial origin | 92 | 8 |
| GO:0007267//cell-cell signaling | 729 | 40 |
| GO:0032970//regulation of actin filament-based process | 181 | 13 |
| GO:0035637//multicellular organismal signaling | 540 | 31 |
| GO:0007010//cytoskeleton organization | 561 | 32 |
| GO:0002690//positive regulation of leukocyte chemotaxis | 60 | 6 |
| GO:0007623//circadian rhythm | 60 | 6 |
| GO:0019935//cyclic-nucleotide-mediated signaling | 18 | 3 |
| GO:0034405//response to fluid shear stress | 18 | 3 |
| GO:0046058//cAMP metabolic process | 18 | 3 |
| GO:0050829//defense response to Gram-negative bacterium | 18 | 3 |
| GO:0050918//positive chemotaxis | 18 | 3 |
| GO:0071634//regulation of transforming growth factor beta production | 18 | 3 |
| GO:0022407//regulation of cell-cell adhesion | 76 | 7 |
| GO:0042542//response to hydrogen peroxide | 76 | 7 |
| GO:0071901//negative regulation of protein serine/threonine kinase activity | 76 | 7 |
| GO:0009880//embryonic pattern specification | 45 | 5 |
| GO:0018108//peptidyl-tyrosine phosphorylation | 45 | 5 |
| GO:0045913//positive regulation of carbohydrate metabolic process | 45 | 5 |
| GO:0071300//cellular response to retinoic acid | 45 | 5 |
| GO:0009615//response to virus | 201 | 14 |
| GO:0045934//negative regulation of nucleobase-containing compound metabolic process | 861 | 46 |
| GO:0042752//regulation of circadian rhythm | 31 | 4 |
| GO:2000401//regulation of lymphocyte migration | 31 | 4 |
| GO:0007346//regulation of mitotic cell cycle | 259 | 17 |
| GO:0002698//negative regulation of immune effector process | 61 | 6 |
| GO:0072091//regulation of stem cell proliferation | 61 | 6 |
| GO:0006954//inflammatory response | 299 | 19 |

| | | |
|---|-----|----|
| GO:0090316//positive regulation of intracellular protein transport | 94 | 8 |
| GO:0006636//unsaturated fatty acid biosynthetic process | 46 | 5 |
| GO:0007569//cell aging | 46 | 5 |
| GO:0046460//neutral lipid biosynthetic process | 46 | 5 |
| GO:0046463//acylglycerol biosynthetic process | 46 | 5 |
| GO:0016053//organic acid biosynthetic process | 261 | 17 |
| GO:0046394//carboxylic acid biosynthetic process | 261 | 17 |
| GO:0015075//ion transmembrane transporter activity | 567 | 32 |
| GO:0001764//neuron migration | 78 | 7 |
| GO:0001553//luteinization | 8 | 2 |
| GO:0002063//chondrocyte development | 8 | 2 |
| GO:0003161//cardiac conduction system development | 8 | 2 |
| GO:0007175//negative regulation of epidermal growth factor-activated receptor signaling pathway | 8 | 2 |
| GO:0010755//regulation of plasminogen activation | 8 | 2 |
| GO:0010996//response to auditory stimulus | 8 | 2 |
| GO:0019471//4-hydroxyproline metabolic process | 8 | 2 |
| GO:0031659//positive regulation of cyclin-dependent protein serine/threonine kinase activity | 8 | 2 |
| GO:0032276//regulation of gonadotropin secretion | 8 | 2 |
| GO:0032331//negative regulation of chondrocyte differentiation | 8 | 2 |
| GO:0032429//regulation of phospholipase A2 activity | 8 | 2 |
| GO:0033689//negative regulation of osteoblast proliferation | 8 | 2 |
| GO:0034505//tooth mineralization | 8 | 2 |
| GO:0038092//nodal signaling pathway | 8 | 2 |
| GO:0040034//regulation of development, heterochronic | 8 | 2 |
| GO:0043129//surfactant homeostasis | 8 | 2 |
| GO:0044321//response to leptin stimulus | 8 | 2 |
| GO:0045117//azole transport | 8 | 2 |
| GO:0045628//regulation of T-helper 2 cell differentiation | 8 | 2 |
| GO:0045663//positive regulation of myoblast differentiation | 8 | 2 |
| GO:0045844//positive regulation of striated muscle tissue development | 8 | 2 |
| GO:0048505//regulation of timing of cell differentiation | 8 | 2 |
| GO:0048636//positive regulation of muscle organ development | 8 | 2 |
| GO:0048875//chemical homeostasis within a tissue | 8 | 2 |
| GO:0060638//mesenchymal-epithelial cell signaling | 8 | 2 |
| GO:0061162//establishment of monopolar cell polarity | 8 | 2 |
| GO:0061339//establishment or maintenance of monopolar cell polarity | 8 | 2 |
| GO:0071276//cellular response to cadmium ion | 8 | 2 |
| GO:0071379//cellular response to prostaglandin stimulus | 8 | 2 |
| GO:0071850//mitotic cell cycle arrest | 8 | 2 |
| GO:0072087//renal vesicle development | 8 | 2 |
| GO:0072111//cell proliferation involved in kidney development | 8 | 2 |
| GO:0072203//cell proliferation involved in metanephros development | 8 | 2 |
| GO:1900015//regulation of cytokine production involved in inflammatory response | 8 | 2 |
| GO:1901072//glucosamine-containing compound catabolic process | 8 | 2 |
| GO:1901863//positive regulation of muscle tissue development | 8 | 2 |
| GO:0006040//amino sugar metabolic process | 32 | 4 |
| GO:0006730//one-carbon metabolic process | 32 | 4 |
| GO:0043550//regulation of lipid kinase activity | 32 | 4 |
| GO:0021782//glial cell development | 62 | 6 |
| GO:0015012//heparan sulfate proteoglycan biosynthetic process | 19 | 3 |
| GO:0043304//regulation of mast cell degranulation | 19 | 3 |
| GO:0043502//regulation of muscle adaptation | 19 | 3 |
| GO:0045823//positive regulation of heart contraction | 19 | 3 |
| GO:0045920//negative regulation of exocytosis | 19 | 3 |
| GO:0050716//positive regulation of interleukin-1 secretion | 19 | 3 |
| GO:0060740//prostate gland epithelium morphogenesis | 19 | 3 |
| GO:0061333//renal tubule morphogenesis | 19 | 3 |
| GO:0090207//regulation of triglyceride metabolic process | 19 | 3 |

| | | |
|---|-----|----|
| GO:2000404//regulation of T cell migration | 19 | 3 |
| GO:2001014//regulation of skeletal muscle cell differentiation | 19 | 3 |
| GO:0006873//cellular ion homeostasis | 302 | 19 |
| GO:0044708//single-organism behavior | 302 | 19 |
| GO:0071407//cellular response to organic cyclic compound | 186 | 13 |
| GO:0001708//cell fate specification | 47 | 5 |
| GO:0002027//regulation of heart rate | 47 | 5 |
| GO:0015748//organophosphate ester transport | 47 | 5 |
| GO:0018212//peptidyl-tyrosine modification | 47 | 5 |
| GO:0021954//central nervous system neuron development | 47 | 5 |
| GO:0035148//tube formation | 96 | 8 |
| GO:0015399//primary active transmembrane transporter activity | 63 | 6 |
| GO:0015405//P-P-bond-hydrolysis-driven transmembrane transporter activity | 63 | 6 |
| GO:0016462//pyrophosphatase activity | 63 | 6 |
| GO:0016817//hydrolase activity, acting on acid anhydrides | 63 | 6 |
| GO:0016818//hydrolase activity, acting on acid anhydrides, in phosphorus-c | 63 | 6 |
| GO:0016820//hydrolase activity, acting on acid anhydrides, catalyzing trans | 63 | 6 |
| GO:0016887//ATPase activity | 63 | 6 |
| GO:0017111//nucleoside-triphosphatase activity | 63 | 6 |
| GO:0031016//pancreas development | 63 | 6 |
| GO:0035050//embryonic heart tube development | 63 | 6 |
| GO:0042623//ATPase activity, coupled | 63 | 6 |
| GO:0042625//ATPase activity, coupled to transmembrane movement of ions | 63 | 6 |
| GO:0042626//ATPase activity, coupled to transmembrane movement of sub | 63 | 6 |
| GO:0043492//ATPase activity, coupled to movement of substances | 63 | 6 |
| GO:0012501//programmed cell death | 614 | 34 |
| GO:0010470//regulation of gastrulation | 33 | 4 |
| GO:0015914//phospholipid transport | 33 | 4 |
| GO:0030595//leukocyte chemotaxis | 80 | 7 |
| GO:0097202//activation of cysteine-type endopeptidase activity | 80 | 7 |
| GO:0000187//activation of MAPK activity | 115 | 9 |
| GO:0006665//sphingolipid metabolic process | 115 | 9 |
| GO:0031589//cell-substrate adhesion | 115 | 9 |
| GO:0008643//carbohydrate transport | 64 | 6 |
| GO:0042552//myelination | 64 | 6 |
| GO:0050715//positive regulation of cytokine secretion | 64 | 6 |
| GO:0008045//motor neuron axon guidance | 20 | 3 |
| GO:0015179//L-amino acid transmembrane transporter activity | 20 | 3 |
| GO:0015301//anion:anion antiporter activity | 20 | 3 |
| GO:0017145//stem cell division | 20 | 3 |
| GO:0032925//regulation of activin receptor signaling pathway | 20 | 3 |
| GO:0033006//regulation of mast cell activation involved in immune respons | 20 | 3 |
| GO:0036151//phosphatidylcholine acyl-chain remodeling | 20 | 3 |
| GO:0045987//positive regulation of smooth muscle contraction | 20 | 3 |
| GO:0002520//immune system development | 429 | 25 |
| GO:0015980//energy derivation by oxidation of organic compounds | 228 | 15 |
| GO:0019228//regulation of action potential in neuron | 81 | 7 |
| GO:0031329//regulation of cellular catabolic process | 471 | 27 |
| GO:0001569//patterning of blood vessels | 34 | 4 |
| GO:0018210//peptidyl-threonine modification | 34 | 4 |
| GO:0045668//negative regulation of osteoblast differentiation | 34 | 4 |
| GO:0071230//cellular response to amino acid stimulus | 34 | 4 |
| GO:0003208//cardiac ventricle morphogenesis | 49 | 5 |
| GO:0006942//regulation of striated muscle contraction | 49 | 5 |
| GO:0050773//regulation of dendrite development | 49 | 5 |
| GO:0034765//regulation of ion transmembrane transport | 153 | 11 |
| GO:0016049//cell growth | 65 | 6 |
| GO:0060560//developmental growth involved in morphogenesis | 65 | 6 |

| | | |
|---|-----|----|
| GO:0007156//homophilic cell adhesion | 99 | 8 |
| GO:0043122//regulation of I-kappaB kinase/NF-kappaB cascade | 191 | 13 |
| GO:0003177//pulmonary valve development | 9 | 2 |
| GO:0003184//pulmonary valve morphogenesis | 9 | 2 |
| GO:0009404//toxin metabolic process | 9 | 2 |
| GO:0010544//negative regulation of platelet activation | 9 | 2 |
| GO:0016114//terpenoid biosynthetic process | 9 | 2 |
| GO:0019430//removal of superoxide radicals | 9 | 2 |
| GO:0031657//regulation of cyclin-dependent protein serine/threonine kinase | 9 | 2 |
| GO:0032495//response to muramyl dipeptide | 9 | 2 |
| GO:0032926//negative regulation of activin receptor signaling pathway | 9 | 2 |
| GO:0033629//negative regulation of cell adhesion mediated by integrin | 9 | 2 |
| GO:0035112//genitalia morphogenesis | 9 | 2 |
| GO:0035584//calcium-mediated signaling using intracellular calcium source | 9 | 2 |
| GO:0043931//ossification involved in bone maturation | 9 | 2 |
| GO:0045741//positive regulation of epidermal growth factor-activated recep | 9 | 2 |
| GO:0048368//lateral mesoderm development | 9 | 2 |
| GO:0055003//cardiac myofibril assembly | 9 | 2 |
| GO:0055089//fatty acid homeostasis | 9 | 2 |
| GO:0060192//negative regulation of lipase activity | 9 | 2 |
| GO:0060231//mesenchymal to epithelial transition | 9 | 2 |
| GO:0060379//cardiac muscle cell myoblast differentiation | 9 | 2 |
| GO:0060736//prostate gland growth | 9 | 2 |
| GO:0071451//cellular response to superoxide | 9 | 2 |
| GO:0072079//nephron tubule formation | 9 | 2 |
| GO:0086009//membrane repolarization | 9 | 2 |
| GO:0086011//membrane repolarization involved in regulation of action pote | 9 | 2 |
| GO:0086013//membrane repolarization involved in regulation of cardiac mu | 9 | 2 |
| GO:0090178//regulation of establishment of planar polarity involved in neur | 9 | 2 |
| GO:0090179//planar cell polarity pathway involved in neural tube closure | 9 | 2 |
| GO:0097150//neuronal stem cell maintenance | 9 | 2 |
| GO:1900006//positive regulation of dendrite development | 9 | 2 |
| GO:1901213//regulation of transcription from RNA polymerase II promoter in | 9 | 2 |
| GO:2000095//regulation of Wnt receptor signaling pathway, planar cell pola | 9 | 2 |
| GO:0022804//active transmembrane transporter activity | 154 | 11 |
| GO:0001936//regulation of endothelial cell proliferation | 66 | 6 |
| GO:0007272//ensheathment of neurons | 66 | 6 |
| GO:0008366//axon ensheathment | 66 | 6 |
| GO:0009408//response to heat | 66 | 6 |
| GO:0043507//positive regulation of JUN kinase activity | 66 | 6 |
| GO:0050673//epithelial cell proliferation | 66 | 6 |
| GO:0050866//negative regulation of cell activation | 118 | 9 |
| GO:0006699//bile acid biosynthetic process | 21 | 3 |
| GO:0014014//negative regulation of gliogenesis | 21 | 3 |
| GO:0030206//chondroitin sulfate biosynthetic process | 21 | 3 |
| GO:0030947//regulation of vascular endothelial growth factor receptor signa | 21 | 3 |
| GO:0042311//vasodilation | 21 | 3 |
| GO:0043388//positive regulation of DNA binding | 21 | 3 |
| GO:0045616//regulation of keratinocyte differentiation | 21 | 3 |
| GO:0046686//response to cadmium ion | 21 | 3 |
| GO:0060512//prostate gland morphogenesis | 21 | 3 |
| GO:0071331//cellular response to hexose stimulus | 21 | 3 |
| GO:0071333//cellular response to glucose stimulus | 21 | 3 |
| GO:0086001//regulation of cardiac muscle cell action potential | 21 | 3 |
| GO:0090022//regulation of neutrophil chemotaxis | 21 | 3 |
| GO:0090189//regulation of branching involved in ureteric bud morphogenes | 21 | 3 |
| GO:1901071//glucosamine-containing compound metabolic process | 21 | 3 |
| GO:0010822//positive regulation of mitochondrion organization | 35 | 4 |

| | | |
|--|-----|----|
| GO:0015807//L-amino acid transport | 35 | 4 |
| GO:0022409//positive regulation of cell-cell adhesion | 35 | 4 |
| GO:0048146//positive regulation of fibroblast proliferation | 35 | 4 |
| GO:0009584//detection of visible light | 67 | 6 |
| GO:0040014//regulation of multicellular organism growth | 67 | 6 |
| GO:0042391//regulation of membrane potential | 214 | 14 |
| GO:0048747//muscle fiber development | 51 | 5 |
| GO:0032956//regulation of actin cytoskeleton organization | 157 | 11 |
| GO:0019226//transmission of nerve impulse | 523 | 29 |
| GO:0008637//apoptotic mitochondrial changes | 36 | 4 |
| GO:0021545//cranial nerve development | 36 | 4 |
| GO:0071695//anatomical structure maturation | 36 | 4 |
| GO:0048872//homeostasis of number of cells | 139 | 10 |
| GO:0001838//embryonic epithelial tube formation | 85 | 7 |
| GO:0046425//regulation of JAK-STAT cascade | 68 | 6 |
| GO:0072593//reactive oxygen species metabolic process | 68 | 6 |
| GO:0015849//organic acid transport | 177 | 12 |
| GO:0046942//carboxylic acid transport | 177 | 12 |
| GO:0033157//regulation of intracellular protein transport | 158 | 11 |
| GO:0003081//regulation of systemic arterial blood pressure by renin-angiotensin system | 22 | 3 |
| GO:0015171//amino acid transmembrane transporter activity | 22 | 3 |
| GO:0030212//hyaluronan metabolic process | 22 | 3 |
| GO:0030511//positive regulation of transforming growth factor beta receptor signaling pathway | 22 | 3 |
| GO:0034122//negative regulation of toll-like receptor signaling pathway | 22 | 3 |
| GO:0042036//negative regulation of cytokine biosynthetic process | 22 | 3 |
| GO:0042491//auditory receptor cell differentiation | 22 | 3 |
| GO:0043552//positive regulation of phosphatidylinositol 3-kinase activity | 22 | 3 |
| GO:0048645//organ formation | 22 | 3 |
| GO:0050704//regulation of interleukin-1 secretion | 22 | 3 |
| GO:0050974//detection of mechanical stimulus involved in sensory perception of touch | 22 | 3 |
| GO:0051893//regulation of focal adhesion assembly | 22 | 3 |
| GO:0090109//regulation of cell-substrate junction assembly | 22 | 3 |
| GO:0048592//eye morphogenesis | 103 | 8 |
| GO:0001952//regulation of cell-matrix adhesion | 52 | 5 |
| GO:0007202//activation of phospholipase C activity | 52 | 5 |
| GO:0042475//odontogenesis of dentin-containing tooth | 52 | 5 |
| GO:0050709//negative regulation of protein secretion | 52 | 5 |
| GO:0006198//cAMP catabolic process | 10 | 2 |
| GO:0006809//nitric oxide biosynthetic process | 10 | 2 |
| GO:0007096//regulation of exit from mitosis | 10 | 2 |
| GO:0010885//regulation of cholesterol storage | 10 | 2 |
| GO:0019372//lipxygenase pathway | 10 | 2 |
| GO:0030219//megakaryocyte differentiation | 10 | 2 |
| GO:0033160//positive regulation of protein import into nucleus, translocation | 10 | 2 |
| GO:0034143//regulation of toll-like receptor 4 signaling pathway | 10 | 2 |
| GO:0035886//vascular smooth muscle cell differentiation | 10 | 2 |
| GO:0042574//retinal metabolic process | 10 | 2 |
| GO:0044241//lipid digestion | 10 | 2 |
| GO:0045618//positive regulation of keratinocyte differentiation | 10 | 2 |
| GO:0045821//positive regulation of glycolysis | 10 | 2 |
| GO:0046851//negative regulation of bone remodeling | 10 | 2 |
| GO:0060438//trachea development | 10 | 2 |
| GO:0060442//branching involved in prostate gland morphogenesis | 10 | 2 |
| GO:0060525//prostate glandular acinus development | 10 | 2 |
| GO:0060768//regulation of epithelial cell proliferation involved in prostate gland morphogenesis | 10 | 2 |
| GO:0070498//interleukin-1-mediated signaling pathway | 10 | 2 |
| GO:0070977//bone maturation | 10 | 2 |
| GO:0072182//regulation of nephron tubule epithelial cell differentiation | 10 | 2 |

| | | |
|---|------|-----|
| GO:0072189//ureter development | 10 | 2 |
| GO:0072224//metanephric glomerulus development | 10 | 2 |
| GO:0086010//membrane depolarization involved in regulation of action pote | 10 | 2 |
| GO:0086012//membrane depolarization involved in regulation of cardiac mu | 10 | 2 |
| GO:0090136//epithelial cell-cell adhesion | 10 | 2 |
| GO:0034762//regulation of transmembrane transport | 159 | 11 |
| GO:0071222//cellular response to lipopolysaccharide | 86 | 7 |
| GO:0072175//epithelial tube formation | 86 | 7 |
| GO:0042102//positive regulation of T cell proliferation | 69 | 6 |
| GO:0009889//regulation of biosynthetic process | 3216 | 147 |
| GO:0051224//negative regulation of protein transport | 104 | 8 |
| GO:0006094//gluconeogenesis | 37 | 4 |
| GO:0031623//receptor internalization | 37 | 4 |
| GO:0045069//regulation of viral genome replication | 53 | 5 |
| GO:0051101//regulation of DNA binding | 53 | 5 |
| GO:0044702//single organism reproductive process | 658 | 35 |
| GO:0006066//alcohol metabolic process | 279 | 17 |
| GO:0016485//protein processing | 105 | 8 |
| GO:0050804//regulation of synaptic transmission | 161 | 11 |
| GO:0060249//anatomical structure homeostasis | 161 | 11 |
| GO:0002828//regulation of type 2 immune response | 23 | 3 |
| GO:0008154//actin polymerization or depolymerization | 23 | 3 |
| GO:0032570//response to progesterone stimulus | 23 | 3 |
| GO:0042310//vasoconstriction | 23 | 3 |
| GO:0046513//ceramide biosynthetic process | 23 | 3 |
| GO:0051057//positive regulation of small GTPase mediated signal transduc | 23 | 3 |
| GO:0051966//regulation of synaptic transmission, glutamatergic | 23 | 3 |
| GO:0060428//lung epithelium development | 23 | 3 |
| GO:0086036//regulation of cardiac muscle cell membrane potential | 23 | 3 |
| GO:0090218//positive regulation of lipid kinase activity | 23 | 3 |
| GO:0042472//inner ear morphogenesis | 70 | 6 |
| GO:0072527//pyrimidine-containing compound metabolic process | 70 | 6 |
| GO:0002684//positive regulation of immune system process | 638 | 34 |
| GO:0043269//regulation of ion transport | 321 | 19 |
| GO:0051607//defense response to virus | 124 | 9 |
| GO:0032103//positive regulation of response to external stimulus | 162 | 11 |
| GO:0046328//regulation of JNK cascade | 143 | 10 |
| GO:0043506//regulation of JUN kinase activity | 88 | 7 |
| GO:0006865//amino acid transport | 106 | 8 |
| GO:0031532//actin cytoskeleton reorganization | 38 | 4 |
| GO:0050764//regulation of phagocytosis | 38 | 4 |
| GO:0071229//cellular response to acid | 38 | 4 |
| GO:0035556//intracellular signal transduction | 1058 | 53 |
| GO:0048534//hematopoietic or lymphoid organ development | 405 | 23 |
| GO:0002526//acute inflammatory response | 54 | 5 |
| GO:0007200//phospholipase C-activating G-protein coupled receptor signal | 54 | 5 |
| GO:0007610//behavior | 364 | 21 |
| GO:0009581//detection of external stimulus | 144 | 10 |
| GO:0002544//chronic inflammatory response | 11 | 2 |
| GO:0005355//glucose transmembrane transporter activity | 11 | 2 |
| GO:0006012//galactose metabolic process | 11 | 2 |
| GO:0010002//cardioblast differentiation | 11 | 2 |
| GO:0010745//negative regulation of macrophage derived foam cell different | 11 | 2 |
| GO:0021783//preganglionic parasympathetic nervous system development | 11 | 2 |
| GO:0030878//thyroid gland development | 11 | 2 |
| GO:0032793//positive regulation of CREB transcription factor activity | 11 | 2 |
| GO:0032878//regulation of establishment or maintenance of cell polarity | 11 | 2 |
| GO:0033363//secretory granule organization | 11 | 2 |

| | | |
|--|------|-----|
| GO:0034110//regulation of homotypic cell-cell adhesion | 11 | 2 |
| GO:0034442//regulation of lipoprotein oxidation | 11 | 2 |
| GO:0035810//positive regulation of urine volume | 11 | 2 |
| GO:0042487//regulation of odontogenesis of dentin-containing tooth | 11 | 2 |
| GO:0043403//skeletal muscle tissue regeneration | 11 | 2 |
| GO:0045187//regulation of circadian sleep/wake cycle, sleep | 11 | 2 |
| GO:0045197//establishment or maintenance of epithelial cell apical/basal po | 11 | 2 |
| GO:0045624//positive regulation of T-helper cell differentiation | 11 | 2 |
| GO:0046348//amino sugar catabolic process | 11 | 2 |
| GO:0048009//insulin-like growth factor receptor signaling pathway | 11 | 2 |
| GO:0060306//regulation of membrane repolarization | 11 | 2 |
| GO:0060351//cartilage development involved in endochondral bone morpho | 11 | 2 |
| GO:0060644//mammary gland epithelial cell differentiation | 11 | 2 |
| GO:0060742//epithelial cell differentiation involved in prostate gland develop | 11 | 2 |
| GO:0060976//coronary vasculature development | 11 | 2 |
| GO:0086019//cell-cell signaling involved in cardiac conduction | 11 | 2 |
| GO:0090162//establishment of epithelial cell polarity | 11 | 2 |
| GO:2000050//regulation of non-canonical Wnt receptor signaling pathway | 11 | 2 |
| GO:2000380//regulation of mesoderm development | 11 | 2 |
| GO:0008324//cation transmembrane transporter activity | 471 | 26 |
| GO:0006810//transport | 2836 | 130 |
| GO:0051234//establishment of localization | 2883 | 132 |
| GO:0001893//maternal placenta development | 24 | 3 |
| GO:0030201//heparan sulfate proteoglycan metabolic process | 24 | 3 |
| GO:0043043//peptide biosynthetic process | 24 | 3 |
| GO:0043300//regulation of leukocyte degranulation | 24 | 3 |
| GO:1901661//quinone metabolic process | 24 | 3 |
| GO:0008509//anion transmembrane transporter activity | 145 | 10 |
| GO:0030510//regulation of BMP signaling pathway | 55 | 5 |
| GO:0032355//response to estradiol stimulus | 55 | 5 |
| GO:0031032//actomyosin structure organization | 39 | 4 |
| GO:0034637//cellular carbohydrate biosynthetic process | 39 | 4 |
| GO:0042177//negative regulation of protein catabolic process | 39 | 4 |
| GO:0060113//inner ear receptor cell differentiation | 39 | 4 |
| GO:0060135//maternal process involved in female pregnancy | 39 | 4 |
| GO:0051047//positive regulation of secretion | 205 | 13 |
| GO:0005976//polysaccharide metabolic process | 56 | 5 |
| GO:0010821//regulation of mitochondrion organization | 56 | 5 |
| GO:0006766//vitamin metabolic process | 91 | 7 |
| GO:0034976//response to endoplasmic reticulum stress | 91 | 7 |
| GO:0051054//positive regulation of DNA metabolic process | 91 | 7 |
| GO:0046777//protein autophosphorylation | 147 | 10 |
| GO:0009582//detection of abiotic stimulus | 128 | 9 |
| GO:0006897//endocytosis | 307 | 18 |
| GO:0006939//smooth muscle contraction | 40 | 4 |
| GO:0032652//regulation of interleukin-1 production | 40 | 4 |
| GO:0046879//hormone secretion | 40 | 4 |
| GO:0001702//gastrulation with mouth forming second | 25 | 3 |
| GO:0009409//response to cold | 25 | 3 |
| GO:0015893//drug transport | 25 | 3 |
| GO:0018146//keratan sulfate biosynthetic process | 25 | 3 |
| GO:0034367//macromolecular complex remodeling | 25 | 3 |
| GO:0034368//protein-lipid complex remodeling | 25 | 3 |
| GO:0034369//plasma lipoprotein particle remodeling | 25 | 3 |
| GO:0007602//phototransduction | 74 | 6 |
| GO:0010638//positive regulation of organelle organization | 207 | 13 |
| GO:0009058//biosynthetic process | 2149 | 100 |
| GO:0042632//cholesterol homeostasis | 57 | 5 |

| | | |
|---|------|-----|
| GO:0010975//regulation of neuron projection development | 168 | 11 |
| GO:0001556//oocyte maturation | 12 | 2 |
| GO:0002003//angiotensin maturation | 12 | 2 |
| GO:0002042//cell migration involved in sprouting angiogenesis | 12 | 2 |
| GO:0006700//C21-steroid hormone biosynthetic process | 12 | 2 |
| GO:0009214//cyclic nucleotide catabolic process | 12 | 2 |
| GO:0015145//monosaccharide transmembrane transporter activity | 12 | 2 |
| GO:0015149//hexose transmembrane transporter activity | 12 | 2 |
| GO:0030949//positive regulation of vascular endothelial growth factor recep | 12 | 2 |
| GO:0032309//icosanoid secretion | 12 | 2 |
| GO:0034104//negative regulation of tissue remodeling | 12 | 2 |
| GO:0034391//regulation of smooth muscle cell apoptotic process | 12 | 2 |
| GO:0034394//protein localization to cell surface | 12 | 2 |
| GO:0036296//response to increased oxygen levels | 12 | 2 |
| GO:0042749//regulation of circadian sleep/wake cycle | 12 | 2 |
| GO:0045576//mast cell activation | 12 | 2 |
| GO:0046718//viral entry into host cell | 12 | 2 |
| GO:0048016//inositol phosphate-mediated signaling | 12 | 2 |
| GO:0048486//parasympathetic nervous system development | 12 | 2 |
| GO:0048635//negative regulation of muscle organ development | 12 | 2 |
| GO:0050482//arachidonic acid secretion | 12 | 2 |
| GO:0050748//negative regulation of lipoprotein metabolic process | 12 | 2 |
| GO:0051482//elevation of cytosolic calcium ion concentration involved in ph | 12 | 2 |
| GO:0051968//positive regulation of synaptic transmission, glutamatergic | 12 | 2 |
| GO:0055093//response to hyperoxia | 12 | 2 |
| GO:0060008//Sertoli cell differentiation | 12 | 2 |
| GO:0060602//branch elongation of an epithelium | 12 | 2 |
| GO:0060749//mammary gland alveolus development | 12 | 2 |
| GO:0061001//regulation of dendritic spine morphogenesis | 12 | 2 |
| GO:0061377//mammary gland lobule development | 12 | 2 |
| GO:0071354//cellular response to interleukin-6 | 12 | 2 |
| GO:2000272//negative regulation of receptor activity | 12 | 2 |
| GO:2000696//regulation of epithelial cell differentiation involved in kidney de | 12 | 2 |
| GO:0010595//positive regulation of endothelial cell migration | 41 | 4 |
| GO:0042044//fluid transport | 41 | 4 |
| GO:0048709//oligodendrocyte differentiation | 41 | 4 |
| GO:0055117//regulation of cardiac muscle contraction | 41 | 4 |
| GO:0042439//ethanolamine-containing compound metabolic process | 75 | 6 |
| GO:0051091//positive regulation of sequence-specific DNA binding transcrip | 169 | 11 |
| GO:0051098//regulation of binding | 150 | 10 |
| GO:0055092//sterol homeostasis | 58 | 5 |
| GO:0002675//positive regulation of acute inflammatory response | 26 | 3 |
| GO:0009167//purine ribonucleoside monophosphate metabolic process | 26 | 3 |
| GO:0032732//positive regulation of interleukin-1 production | 26 | 3 |
| GO:0033003//regulation of mast cell activation | 26 | 3 |
| GO:0035315//hair cell differentiation | 26 | 3 |
| GO:0042304//regulation of fatty acid biosynthetic process | 26 | 3 |
| GO:0046850//regulation of bone remodeling | 26 | 3 |
| GO:0048538//thymus development | 26 | 3 |
| GO:0050922//negative regulation of chemotaxis | 26 | 3 |
| GO:0051963//regulation of synapse assembly | 26 | 3 |
| GO:0019538//protein metabolic process | 3191 | 144 |
| GO:0050680//negative regulation of epithelial cell proliferation | 76 | 6 |
| GO:0016310//phosphorylation | 812 | 41 |
| GO:0030800//negative regulation of cyclic nucleotide metabolic process | 42 | 4 |
| GO:0030815//negative regulation of cAMP metabolic process | 42 | 4 |
| GO:0042787//protein ubiquitination involved in ubiquitin-dependent protein d | 42 | 4 |
| GO:0006812//cation transport | 592 | 31 |

| | | |
|--|------|-----|
| GO:0001824//blastocyst development | 59 | 5 |
| GO:0006026//aminoglycan catabolic process | 59 | 5 |
| GO:0009101//glycoprotein biosynthetic process | 273 | 16 |
| GO:0097305//response to alcohol | 172 | 11 |
| GO:0031344//regulation of cell projection organization | 212 | 13 |
| GO:0001704//formation of primary germ layer | 77 | 6 |
| GO:0006919//activation of cysteine-type endopeptidase activity involved in | 77 | 6 |
| GO:0007369//gastrulation | 114 | 8 |
| GO:0051604//protein maturation | 114 | 8 |
| GO:0050865//regulation of cell activation | 400 | 22 |
| GO:0006643//membrane lipid metabolic process | 153 | 10 |
| GO:0001825//blastocyst formation | 27 | 3 |
| GO:0005342//organic acid transmembrane transporter activity | 27 | 3 |
| GO:0009126//purine nucleoside monophosphate metabolic process | 27 | 3 |
| GO:0014003//oligodendrocyte development | 27 | 3 |
| GO:0030239//myofibril assembly | 27 | 3 |
| GO:0046943//carboxylic acid transmembrane transporter activity | 27 | 3 |
| GO:0090278//negative regulation of peptide hormone secretion | 27 | 3 |
| GO:2000179//positive regulation of neural precursor cell proliferation | 27 | 3 |
| GO:0002253//activation of immune response | 337 | 19 |
| GO:0034220//ion transmembrane transport | 337 | 19 |
| GO:0001573//ganglioside metabolic process | 13 | 2 |
| GO:0002021//response to dietary excess | 13 | 2 |
| GO:0002548//monocyte chemotaxis | 13 | 2 |
| GO:0002701//negative regulation of production of molecular mediator of im | 13 | 2 |
| GO:0002719//negative regulation of cytokine production involved in immune | 13 | 2 |
| GO:0006098//pentose-phosphate shunt | 13 | 2 |
| GO:0010744//positive regulation of macrophage derived foam cell differenti | 13 | 2 |
| GO:0030041//actin filament polymerization | 13 | 2 |
| GO:0031290//retinal ganglion cell axon guidance | 13 | 2 |
| GO:0036148//phosphatidylglycerol acyl-chain remodeling | 13 | 2 |
| GO:0036150//phosphatidylserine acyl-chain remodeling | 13 | 2 |
| GO:0048103//somatic stem cell division | 13 | 2 |
| GO:0050919//negative chemotaxis | 13 | 2 |
| GO:0060026//convergent extension | 13 | 2 |
| GO:0071599//otic vesicle development | 13 | 2 |
| GO:0071887//leukocyte apoptotic process | 13 | 2 |
| GO:2000021//regulation of ion homeostasis | 134 | 9 |
| GO:0007189//adenylate cyclase-activating G-protein coupled receptor signa | 43 | 4 |
| GO:0043604//amide biosynthetic process | 43 | 4 |
| GO:0045665//negative regulation of neuron differentiation | 43 | 4 |
| GO:0043271//negative regulation of ion transport | 60 | 5 |
| GO:0045744//negative regulation of G-protein coupled receptor protein sign | 60 | 5 |
| GO:0019827//stem cell maintenance | 78 | 6 |
| GO:0048593//camera-type eye morphogenesis | 78 | 6 |
| GO:0070663//regulation of leukocyte proliferation | 154 | 10 |
| GO:1901576//organic substance biosynthetic process | 2080 | 96 |
| GO:0046165//alcohol biosynthetic process | 97 | 7 |
| GO:0006576//cellular biogenic amine metabolic process | 116 | 8 |
| GO:0044106//cellular amine metabolic process | 116 | 8 |
| GO:0001707//mesoderm formation | 61 | 5 |
| GO:0048145//regulation of fibroblast proliferation | 61 | 5 |
| GO:0031326//regulation of cellular biosynthetic process | 3188 | 143 |
| GO:0048167//regulation of synaptic plasticity | 79 | 6 |
| GO:0002440//production of molecular mediator of immune response | 44 | 4 |
| GO:0019432//triglyceride biosynthetic process | 44 | 4 |
| GO:0072089//stem cell proliferation | 44 | 4 |
| GO:2000177//regulation of neural precursor cell proliferation | 44 | 4 |

| | | |
|---|------|-----|
| GO:0002792//negative regulation of peptide secretion | 28 | 3 |
| GO:0010633//negative regulation of epithelial cell migration | 28 | 3 |
| GO:0015662//ATPase activity, coupled to transmembrane movement of ions | 28 | 3 |
| GO:0030501//positive regulation of bone mineralization | 28 | 3 |
| GO:0031100//organ regeneration | 28 | 3 |
| GO:0031128//developmental induction | 28 | 3 |
| GO:0032436//positive regulation of proteasomal ubiquitin-dependent proteolysis | 28 | 3 |
| GO:0035136//forelimb morphogenesis | 28 | 3 |
| GO:0048013//ephrin receptor signaling pathway | 28 | 3 |
| GO:0060416//response to growth hormone stimulus | 28 | 3 |
| GO:0070098//chemokine-mediated signaling pathway | 28 | 3 |
| GO:0050671//positive regulation of lymphocyte proliferation | 98 | 7 |
| GO:0010468//regulation of gene expression | 3215 | 144 |
| GO:0006631//fatty acid metabolic process | 258 | 15 |
| GO:0019221//cytokine-mediated signaling pathway | 300 | 17 |
| GO:0002687//positive regulation of leukocyte migration | 80 | 6 |
| GO:0045017//glycerolipid biosynthetic process | 197 | 12 |
| GO:0019829//cation-transporting ATPase activity | 62 | 5 |
| GO:0055007//cardiac muscle cell differentiation | 62 | 5 |
| GO:0006468//protein phosphorylation | 559 | 29 |
| GO:0022412//cellular process involved in reproduction in multicellular organism | 157 | 10 |
| GO:2000116//regulation of cysteine-type endopeptidase activity | 157 | 10 |
| GO:0006915//apoptotic process | 603 | 31 |
| GO:0032946//positive regulation of mononuclear cell proliferation | 99 | 7 |
| GO:0046546//development of primary male sexual characteristics | 99 | 7 |
| GO:0002002//regulation of angiotensin levels in blood | 14 | 2 |
| GO:0005452//inorganic anion exchanger activity | 14 | 2 |
| GO:0005978//glycogen biosynthetic process | 14 | 2 |
| GO:0006740//NADPH regeneration | 14 | 2 |
| GO:0006855//drug transmembrane transport | 14 | 2 |
| GO:0009250//glucan biosynthetic process | 14 | 2 |
| GO:0010460//positive regulation of heart rate | 14 | 2 |
| GO:0015695//organic cation transport | 14 | 2 |
| GO:0022410//circadian sleep/wake cycle process | 14 | 2 |
| GO:0030260//entry into host cell | 14 | 2 |
| GO:0033158//regulation of protein import into nucleus, translocation | 14 | 2 |
| GO:0035809//regulation of urine volume | 14 | 2 |
| GO:0044409//entry into host | 14 | 2 |
| GO:0050910//detection of mechanical stimulus involved in sensory perception of touch | 14 | 2 |
| GO:0051769//regulation of nitric-oxide synthase biosynthetic process | 14 | 2 |
| GO:0051806//entry into cell of other organism involved in symbiotic interaction | 14 | 2 |
| GO:0051828//entry into other organism involved in symbiotic interaction | 14 | 2 |
| GO:0051917//regulation of fibrinolysis | 14 | 2 |
| GO:0052126//movement in host environment | 14 | 2 |
| GO:0052192//movement in environment of other organism involved in symbiotic interaction | 14 | 2 |
| GO:0060038//cardiac muscle cell proliferation | 14 | 2 |
| GO:0060177//regulation of angiotensin metabolic process | 14 | 2 |
| GO:0060384//innervation | 14 | 2 |
| GO:0060487//lung epithelial cell differentiation | 14 | 2 |
| GO:0060664//epithelial cell proliferation involved in salivary gland morphogenesis | 14 | 2 |
| GO:0071715//icosanoid transport | 14 | 2 |
| GO:1901571//fatty acid derivative transport | 14 | 2 |
| GO:2000351//regulation of endothelial cell apoptotic process | 14 | 2 |
| GO:0001776//leukocyte homeostasis | 45 | 4 |
| GO:0009914//hormone transport | 45 | 4 |
| GO:0015297//antiporter activity | 45 | 4 |
| GO:1900543//negative regulation of purine nucleotide metabolic process | 45 | 4 |
| GO:0050954//sensory perception of mechanical stimulus | 119 | 8 |

| | | |
|---|-----|----|
| GO:0007585//respiratory gaseous exchange | 29 | 3 |
| GO:0008088//axon cargo transport | 29 | 3 |
| GO:0010828//positive regulation of glucose transport | 29 | 3 |
| GO:0048814//regulation of dendrite morphogenesis | 29 | 3 |
| GO:0070169//positive regulation of biomineral tissue development | 29 | 3 |
| GO:0043112//receptor metabolic process | 63 | 5 |
| GO:0051099//positive regulation of binding | 63 | 5 |
| GO:0009247//glycolipid biosynthetic process | 46 | 4 |
| GO:0016050//vesicle organization | 82 | 6 |
| GO:0006767//water-soluble vitamin metabolic process | 64 | 5 |
| GO:0032387//negative regulation of intracellular transport | 64 | 5 |
| GO:0048332//mesoderm morphogenesis | 64 | 5 |
| GO:0032386//regulation of intracellular transport | 263 | 15 |
| GO:0003012//muscle system process | 181 | 11 |
| GO:0022600//digestive system process | 30 | 3 |
| GO:0033692//cellular polysaccharide biosynthetic process | 30 | 3 |
| GO:0042339//keratan sulfate metabolic process | 30 | 3 |
| GO:0060393//regulation of pathway-restricted SMAD protein phosphorylation | 30 | 3 |
| GO:1901800//positive regulation of proteasomal protein catabolic process | 30 | 3 |
| GO:0009583//detection of light stimulus | 83 | 6 |
| GO:0006694//steroid biosynthetic process | 102 | 7 |
| GO:0070665//positive regulation of leukocyte proliferation | 102 | 7 |
| GO:2001056//positive regulation of cysteine-type endopeptidase activity | 102 | 7 |
| GO:0003215//cardiac right ventricle morphogenesis | 15 | 2 |
| GO:0009110//vitamin biosynthetic process | 15 | 2 |
| GO:0014855//striated muscle cell proliferation | 15 | 2 |
| GO:0031641//regulation of myelination | 15 | 2 |
| GO:0031650//regulation of heat generation | 15 | 2 |
| GO:0042523//positive regulation of tyrosine phosphorylation of Stat5 protein | 15 | 2 |
| GO:0045070//positive regulation of viral genome replication | 15 | 2 |
| GO:0045601//regulation of endothelial cell differentiation | 15 | 2 |
| GO:0045742//positive regulation of epidermal growth factor receptor signaling pathway | 15 | 2 |
| GO:0046716//muscle cell cellular homeostasis | 15 | 2 |
| GO:0048070//regulation of developmental pigmentation | 15 | 2 |
| GO:0060998//regulation of dendritic spine development | 15 | 2 |
| GO:0061099//negative regulation of protein tyrosine kinase activity | 15 | 2 |
| GO:0061311//cell surface receptor signaling pathway involved in heart development | 15 | 2 |
| GO:0070059//intrinsic apoptotic signaling pathway in response to endoplasmic reticulum stress | 15 | 2 |
| GO:0080111//DNA demethylation | 15 | 2 |
| GO:0086002//regulation of cardiac muscle cell action potential involved in cardiac muscle contraction | 15 | 2 |
| GO:2000811//negative regulation of anoikis | 15 | 2 |
| GO:0001938//positive regulation of endothelial cell proliferation | 47 | 4 |
| GO:0071260//cellular response to mechanical stimulus | 47 | 4 |
| GO:0002065//columnar/cuboidal epithelial cell differentiation | 65 | 5 |
| GO:0006633//fatty acid biosynthetic process | 103 | 7 |
| GO:0015850//organic hydroxy compound transport | 84 | 6 |
| GO:0007224//smoothed signaling pathway | 48 | 4 |
| GO:0021761//limbic system development | 48 | 4 |
| GO:0021987//cerebral cortex development | 48 | 4 |
| GO:0045980//negative regulation of nucleotide metabolic process | 48 | 4 |
| GO:0000271//polysaccharide biosynthetic process | 31 | 3 |
| GO:0005977//glycogen metabolic process | 31 | 3 |
| GO:0015909//long-chain fatty acid transport | 31 | 3 |
| GO:0055006//cardiac cell development | 31 | 3 |
| GO:0055081//anion homeostasis | 31 | 3 |
| GO:0072529//pyrimidine-containing compound catabolic process | 31 | 3 |
| GO:0030968//endoplasmic reticulum unfolded protein response | 66 | 5 |
| GO:0071241//cellular response to inorganic substance | 66 | 5 |

| | | |
|--|------|-----|
| GO:0046873//metal ion transmembrane transporter activity | 310 | 17 |
| GO:0008584//male gonad development | 85 | 6 |
| GO:0030902//hindbrain development | 85 | 6 |
| GO:0009308//amine metabolic process | 124 | 8 |
| GO:0044003//modification by symbiont of host morphology or physiology | 247 | 14 |
| GO:0018193//peptidyl-amino acid modification | 441 | 23 |
| GO:0021602//cranial nerve morphogenesis | 16 | 2 |
| GO:0022011//myelination in peripheral nervous system | 16 | 2 |
| GO:0032292//peripheral nervous system axon ensheathment | 16 | 2 |
| GO:0033630//positive regulation of cell adhesion mediated by integrin | 16 | 2 |
| GO:0033632//regulation of cell-cell adhesion mediated by integrin | 16 | 2 |
| GO:0042104//positive regulation of activated T cell proliferation | 16 | 2 |
| GO:0043372//positive regulation of CD4-positive, alpha-beta T cell different | 16 | 2 |
| GO:0045671//negative regulation of osteoclast differentiation | 16 | 2 |
| GO:0045736//negative regulation of cyclin-dependent protein serine/threoni | 16 | 2 |
| GO:0045745//positive regulation of G-protein coupled receptor protein signa | 16 | 2 |
| GO:0050901//leukocyte tethering or rolling | 16 | 2 |
| GO:0051155//positive regulation of striated muscle cell differentiation | 16 | 2 |
| GO:0055017//cardiac muscle tissue growth | 16 | 2 |
| GO:0071526//semaphorin-plexin signaling pathway | 16 | 2 |
| GO:0090023//positive regulation of neutrophil chemotaxis | 16 | 2 |
| GO:1901186//positive regulation of ERBB signaling pathway | 16 | 2 |
| GO:0034614//cellular response to reactive oxygen species | 67 | 5 |
| GO:0034620//cellular response to unfolded protein | 67 | 5 |
| GO:1901654//response to ketone | 67 | 5 |
| GO:0030099//myeloid cell differentiation | 145 | 9 |
| GO:0015918//sterol transport | 49 | 4 |
| GO:0018208//peptidyl-proline modification | 49 | 4 |
| GO:0030301//cholesterol transport | 49 | 4 |
| GO:0034332//adherens junction organization | 49 | 4 |
| GO:0046324//regulation of glucose import | 49 | 4 |
| GO:0006073//cellular glucan metabolic process | 32 | 3 |
| GO:0044042//glucan metabolic process | 32 | 3 |
| GO:0048521//negative regulation of behavior | 32 | 3 |
| GO:0070206//protein trimerization | 32 | 3 |
| GO:0043687//post-translational protein modification | 166 | 10 |
| GO:0006986//response to unfolded protein | 106 | 7 |
| GO:0010950//positive regulation of endopeptidase activity | 106 | 7 |
| GO:0042129//regulation of T cell proliferation | 106 | 7 |
| GO:0043433//negative regulation of sequence-specific DNA binding transcr | 106 | 7 |
| GO:0046661//male sex differentiation | 106 | 7 |
| GO:1901617//organic hydroxy compound biosynthetic process | 126 | 8 |
| GO:0009314//response to radiation | 314 | 17 |
| GO:0022836//gated channel activity | 208 | 12 |
| GO:0022839//ion gated channel activity | 208 | 12 |
| GO:0004721//phosphoprotein phosphatase activity | 87 | 6 |
| GO:0004725//protein tyrosine phosphatase activity | 87 | 6 |
| GO:0010959//regulation of metal ion transport | 167 | 10 |
| GO:0071704//organic substance metabolic process | 6497 | 278 |
| GO:0006672//ceramide metabolic process | 50 | 4 |
| GO:0010811//positive regulation of cell-substrate adhesion | 50 | 4 |
| GO:0030148//sphingolipid biosynthetic process | 50 | 4 |
| GO:0044264//cellular polysaccharide metabolic process | 50 | 4 |
| GO:0061180//mammary gland epithelium development | 50 | 4 |
| GO:0007586//digestion | 88 | 6 |
| GO:0042886//amide transport | 69 | 5 |
| GO:0045862//positive regulation of proteolysis | 69 | 5 |
| GO:0015077//monovalent inorganic cation transmembrane transporter activ | 231 | 13 |

| | | |
|---|------|-----|
| GO:0002790//peptide secretion | 33 | 3 |
| GO:0006953//acute-phase response | 33 | 3 |
| GO:0010332//response to gamma radiation | 33 | 3 |
| GO:0030593//neutrophil chemotaxis | 33 | 3 |
| GO:0030803//negative regulation of cyclic nucleotide biosynthetic process | 33 | 3 |
| GO:0030818//negative regulation of cAMP biosynthetic process | 33 | 3 |
| GO:0044273//sulfur compound catabolic process | 33 | 3 |
| GO:0071827//plasma lipoprotein particle organization | 33 | 3 |
| GO:0051171//regulation of nitrogen compound metabolic process | 3364 | 148 |
| GO:0043281//regulation of cysteine-type endopeptidase activity involved in | 148 | 9 |
| GO:0002089//lens morphogenesis in camera-type eye | 17 | 2 |
| GO:0006829//zinc ion transport | 17 | 2 |
| GO:0006972//hyperosmotic response | 17 | 2 |
| GO:0007250//activation of NF-kappaB-inducing kinase activity | 17 | 2 |
| GO:0010771//negative regulation of cell morphogenesis involved in differen | 17 | 2 |
| GO:0021795//cerebral cortex cell migration | 17 | 2 |
| GO:0034698//response to gonadotropin stimulus | 17 | 2 |
| GO:0042107//cytokine metabolic process | 17 | 2 |
| GO:0042522//regulation of tyrosine phosphorylation of Stat5 protein | 17 | 2 |
| GO:0042745//circadian sleep/wake cycle | 17 | 2 |
| GO:0045737//positive regulation of cyclin-dependent protein kinase activity | 17 | 2 |
| GO:0045747//positive regulation of Notch signaling pathway | 17 | 2 |
| GO:0046688//response to copper ion | 17 | 2 |
| GO:0086065//cell communication involved in cardiac conduction | 17 | 2 |
| GO:1901623//regulation of lymphocyte chemotaxis | 17 | 2 |
| GO:2000273//positive regulation of receptor activity | 17 | 2 |
| GO:0030814//regulation of cAMP metabolic process | 108 | 7 |
| GO:0048644//muscle organ morphogenesis | 51 | 4 |
| GO:0008152//metabolic process | 7070 | 301 |
| GO:0006796//phosphate-containing compound metabolic process | 1781 | 81 |
| GO:0002695//negative regulation of leukocyte activation | 109 | 7 |
| GO:0030808//regulation of nucleotide biosynthetic process | 109 | 7 |
| GO:1900371//regulation of purine nucleotide biosynthetic process | 109 | 7 |
| GO:0044249//cellular biosynthetic process | 1995 | 90 |
| GO:0006654//phosphatidic acid biosynthetic process | 34 | 3 |
| GO:0046473//phosphatidic acid metabolic process | 34 | 3 |
| GO:0071825//protein-lipid complex subunit organization | 34 | 3 |
| GO:0015103//inorganic anion transmembrane transporter activity | 90 | 6 |
| GO:0032319//regulation of Rho GTPase activity | 90 | 6 |
| GO:0021537//telencephalon development | 130 | 8 |
| GO:0016579//protein deubiquitination | 52 | 4 |
| GO:0042180//cellular ketone metabolic process | 52 | 4 |
| GO:0007605//sensory perception of sound | 110 | 7 |
| GO:0001759//organ induction | 18 | 2 |
| GO:0001953//negative regulation of cell-matrix adhesion | 18 | 2 |
| GO:0003254//regulation of membrane depolarization | 18 | 2 |
| GO:0010575//positive regulation vascular endothelial growth factor producti | 18 | 2 |
| GO:0014044//Schwann cell development | 18 | 2 |
| GO:0030539//male genitalia development | 18 | 2 |
| GO:0032410//negative regulation of transporter activity | 18 | 2 |
| GO:0033002//muscle cell proliferation | 18 | 2 |
| GO:0035088//establishment or maintenance of apical/basal cell polarity | 18 | 2 |
| GO:0035510//DNA dealkylation | 18 | 2 |
| GO:0035813//regulation of renal sodium excretion | 18 | 2 |
| GO:0036152//phosphatidylethanolamine acyl-chain remodeling | 18 | 2 |
| GO:0042417//dopamine metabolic process | 18 | 2 |
| GO:0042755//eating behavior | 18 | 2 |
| GO:0048745//smooth muscle tissue development | 18 | 2 |

| | | |
|---|------|----|
| GO:0050718//positive regulation of interleukin-1 beta secretion | 18 | 2 |
| GO:0060419//heart growth | 18 | 2 |
| GO:0060600//dichotomous subdivision of an epithelial terminal unit | 18 | 2 |
| GO:0061245//establishment or maintenance of bipolar cell polarity | 18 | 2 |
| GO:0071624//positive regulation of granulocyte chemotaxis | 18 | 2 |
| GO:0086004//regulation of cardiac muscle cell contraction | 18 | 2 |
| GO:0090190//positive regulation of branching involved in ureteric bud morph | 18 | 2 |
| GO:0090279//regulation of calcium ion import | 18 | 2 |
| GO:1901222//regulation of NIK/NF-kappaB cascade | 18 | 2 |
| GO:0016788//hydrolase activity, acting on ester bonds | 91 | 6 |
| GO:0016791//phosphatase activity | 91 | 6 |
| GO:0042578//phosphoric ester hydrolase activity | 91 | 6 |
| GO:0043279//response to alkaloid | 91 | 6 |
| GO:0010952//positive regulation of peptidase activity | 111 | 7 |
| GO:0021915//neural tube development | 111 | 7 |
| GO:0006970//response to osmotic stress | 53 | 4 |
| GO:0016126//sterol biosynthetic process | 35 | 3 |
| GO:0030809//negative regulation of nucleotide biosynthetic process | 35 | 3 |
| GO:0043966//histone H3 acetylation | 35 | 3 |
| GO:0050982//detection of mechanical stimulus | 35 | 3 |
| GO:0051492//regulation of stress fiber assembly | 35 | 3 |
| GO:1900372//negative regulation of purine nucleotide biosynthetic process | 35 | 3 |
| GO:0006936//muscle contraction | 153 | 9 |
| GO:0007601//visual perception | 153 | 9 |
| GO:0009056//catabolic process | 1631 | 74 |
| GO:0032388//positive regulation of intracellular transport | 133 | 8 |
| GO:0050953//sensory perception of light stimulus | 154 | 9 |
| GO:0009306//protein secretion | 54 | 4 |
| GO:0032642//regulation of chemokine production | 54 | 4 |
| GO:0043407//negative regulation of MAP kinase activity | 54 | 4 |
| GO:0051701//interaction with host | 282 | 15 |
| GO:0002064//epithelial cell development | 175 | 10 |
| GO:0008360//regulation of cell shape | 93 | 6 |
| GO:0030817//regulation of cAMP biosynthetic process | 93 | 6 |
| GO:0019058//viral infectious cycle | 36 | 3 |
| GO:0032651//regulation of interleukin-1 beta production | 36 | 3 |
| GO:0034121//regulation of toll-like receptor signaling pathway | 36 | 3 |
| GO:0035094//response to nicotine | 36 | 3 |
| GO:0043535//regulation of blood vessel endothelial cell migration | 36 | 3 |
| GO:0001659//temperature homeostasis | 19 | 2 |
| GO:0002066//columnar/cuboidal epithelial cell development | 19 | 2 |
| GO:0006541//glutamine metabolic process | 19 | 2 |
| GO:0009084//glutamine family amino acid biosynthetic process | 19 | 2 |
| GO:0009268//response to pH | 19 | 2 |
| GO:0010226//response to lithium ion | 19 | 2 |
| GO:0015144//carbohydrate transmembrane transporter activity | 19 | 2 |
| GO:0015721//bile acid and bile salt transport | 19 | 2 |
| GO:0032873//negative regulation of stress-activated MAPK cascade | 19 | 2 |
| GO:0034333//adherens junction assembly | 19 | 2 |
| GO:0035850//epithelial cell differentiation involved in kidney development | 19 | 2 |
| GO:0043534//blood vessel endothelial cell migration | 19 | 2 |
| GO:0043536//positive regulation of blood vessel endothelial cell migration | 19 | 2 |
| GO:0046209//nitric oxide metabolic process | 19 | 2 |
| GO:0046320//regulation of fatty acid oxidation | 19 | 2 |
| GO:0051119//sugar transmembrane transporter activity | 19 | 2 |
| GO:0051602//response to electrical stimulus | 19 | 2 |
| GO:0051898//negative regulation of protein kinase B signaling cascade | 19 | 2 |
| GO:0060043//regulation of cardiac muscle cell proliferation | 19 | 2 |

| | | |
|--|-----|----|
| GO:0060968//regulation of gene silencing | 19 | 2 |
| GO:0070303//negative regulation of stress-activated protein kinase signalin | 19 | 2 |
| GO:1901476//carbohydrate transporter activity | 19 | 2 |
| GO:2000516//positive regulation of CD4-positive, alpha-beta T cell activatio | 19 | 2 |
| GO:0046474//glycerophospholipid biosynthetic process | 176 | 10 |
| GO:0021543//pallium development | 74 | 5 |
| GO:0010721//negative regulation of cell development | 94 | 6 |
| GO:0045834//positive regulation of lipid metabolic process | 94 | 6 |
| GO:0046887//positive regulation of hormone secretion | 55 | 4 |
| GO:0019048//modulation by virus of host morphology or physiology | 241 | 13 |
| GO:0001547//antral ovarian follicle growth | 5 | 1 |
| GO:0001554//luteolysis | 5 | 1 |
| GO:0001778//plasma membrane repair | 5 | 1 |
| GO:0001911//negative regulation of leukocyte mediated cytotoxicity | 5 | 1 |
| GO:0002467//germinal center formation | 5 | 1 |
| GO:0003032//detection of oxygen | 5 | 1 |
| GO:0003094//glomerular filtration | 5 | 1 |
| GO:0003100//regulation of systemic arterial blood pressure by endothelin | 5 | 1 |
| GO:0003174//mitral valve development | 5 | 1 |
| GO:0003307//regulation of Wnt receptor signaling pathway involved in hear | 5 | 1 |
| GO:0003308//negative regulation of Wnt receptor signaling pathway involve | 5 | 1 |
| GO:0003417//growth plate cartilage development | 5 | 1 |
| GO:0006003//fructose 2,6-bisphosphate metabolic process | 5 | 1 |
| GO:0006167//AMP biosynthetic process | 5 | 1 |
| GO:0006572//tyrosine catabolic process | 5 | 1 |
| GO:0006678//glucosylceramide metabolic process | 5 | 1 |
| GO:0006787//porphyrin-containing compound catabolic process | 5 | 1 |
| GO:0006857//oligopeptide transport | 5 | 1 |
| GO:0006925//inflammatory cell apoptotic process | 5 | 1 |
| GO:0007028//cytoplasm organization | 5 | 1 |
| GO:0007262//STAT protein import into nucleus | 5 | 1 |
| GO:0007442//hindgut morphogenesis | 5 | 1 |
| GO:0007501//mesodermal cell fate specification | 5 | 1 |
| GO:0007598//blood coagulation, extrinsic pathway | 5 | 1 |
| GO:0008216//spermidine metabolic process | 5 | 1 |
| GO:0009052//pentose-phosphate shunt, non-oxidative branch | 5 | 1 |
| GO:0009128//purine nucleoside monophosphate catabolic process | 5 | 1 |
| GO:0009133//nucleoside diphosphate biosynthetic process | 5 | 1 |
| GO:0009448//gamma-aminobutyric acid metabolic process | 5 | 1 |
| GO:0009744//response to sucrose stimulus | 5 | 1 |
| GO:0009912//auditory receptor cell fate commitment | 5 | 1 |
| GO:0010766//negative regulation of sodium ion transport | 5 | 1 |
| GO:0015106//bicarbonate transmembrane transporter activity | 5 | 1 |
| GO:0015180//L-alanine transmembrane transporter activity | 5 | 1 |
| GO:0015220//choline transmembrane transporter activity | 5 | 1 |
| GO:0015464//acetylcholine receptor activity | 5 | 1 |
| GO:0015665//alcohol transmembrane transporter activity | 5 | 1 |
| GO:0015840//urea transport | 5 | 1 |
| GO:0015865//purine nucleotide transport | 5 | 1 |
| GO:0015868//purine ribonucleotide transport | 5 | 1 |
| GO:0016907//G-protein coupled acetylcholine receptor activity | 5 | 1 |
| GO:0021557//oculomotor nerve development | 5 | 1 |
| GO:0021561//facial nerve development | 5 | 1 |
| GO:0021604//cranial nerve structural organization | 5 | 1 |
| GO:0021683//cerebellar granular layer morphogenesis | 5 | 1 |
| GO:0021869//forebrain ventricular zone progenitor cell division | 5 | 1 |
| GO:0022601//menstrual cycle phase | 5 | 1 |
| GO:0022614//membrane to membrane docking | 5 | 1 |

| | | |
|---|---|---|
| GO:0022858//alanine transmembrane transporter activity | 5 | 1 |
| GO:0030042//actin filament depolymerization | 5 | 1 |
| GO:0031017//exocrine pancreas development | 5 | 1 |
| GO:0031115//negative regulation of microtubule polymerization | 5 | 1 |
| GO:0031223//auditory behavior | 5 | 1 |
| GO:0031342//negative regulation of cell killing | 5 | 1 |
| GO:0031392//regulation of prostaglandin biosynthetic process | 5 | 1 |
| GO:0031427//response to methotrexate | 5 | 1 |
| GO:0031915//positive regulation of synaptic plasticity | 5 | 1 |
| GO:0031936//negative regulation of chromatin silencing | 5 | 1 |
| GO:0032224//positive regulation of synaptic transmission, cholinergic | 5 | 1 |
| GO:0032277//negative regulation of gonadotropin secretion | 5 | 1 |
| GO:0032364//oxygen homeostasis | 5 | 1 |
| GO:0032747//positive regulation of interleukin-23 production | 5 | 1 |
| GO:0032854//positive regulation of Rap GTPase activity | 5 | 1 |
| GO:0032964//collagen biosynthetic process | 5 | 1 |
| GO:0033015//tetrapyrrole catabolic process | 5 | 1 |
| GO:0033633//negative regulation of cell-cell adhesion mediated by integrin | 5 | 1 |
| GO:0034285//response to disaccharide stimulus | 5 | 1 |
| GO:0034372//very-low-density lipoprotein particle remodeling | 5 | 1 |
| GO:0035330//regulation of hippo signaling cascade | 5 | 1 |
| GO:0035356//cellular triglyceride homeostasis | 5 | 1 |
| GO:0035624//receptor transactivation | 5 | 1 |
| GO:0036155//acylglycerol acyl-chain remodeling | 5 | 1 |
| GO:0042167//heme catabolic process | 5 | 1 |
| GO:0042723//thiamine-containing compound metabolic process | 5 | 1 |
| GO:0043476//pigment accumulation | 5 | 1 |
| GO:0043482//cellular pigment accumulation | 5 | 1 |
| GO:0043587//tongue morphogenesis | 5 | 1 |
| GO:0045714//regulation of low-density lipoprotein particle receptor biosynth | 5 | 1 |
| GO:0045743//positive regulation of fibroblast growth factor receptor signalin | 5 | 1 |
| GO:0045869//negative regulation of retroviral genome replication | 5 | 1 |
| GO:0046031//ADP metabolic process | 5 | 1 |
| GO:0046149//pigment catabolic process | 5 | 1 |
| GO:0046469//platelet activating factor metabolic process | 5 | 1 |
| GO:0046835//carbohydrate phosphorylation | 5 | 1 |
| GO:0048642//negative regulation of skeletal muscle tissue development | 5 | 1 |
| GO:0048664//neuron fate determination | 5 | 1 |
| GO:0051503//adenine nucleotide transport | 5 | 1 |
| GO:0051547//regulation of keratinocyte migration | 5 | 1 |
| GO:0051549//positive regulation of keratinocyte migration | 5 | 1 |
| GO:0051597//response to methylmercury | 5 | 1 |
| GO:0051608//histamine transport | 5 | 1 |
| GO:0051973//positive regulation of telomerase activity | 5 | 1 |
| GO:0060087//relaxation of vascular smooth muscle | 5 | 1 |
| GO:0060120//inner ear receptor cell fate commitment | 5 | 1 |
| GO:0060157//urinary bladder development | 5 | 1 |
| GO:0060297//regulation of sarcomere organization | 5 | 1 |
| GO:0060389//pathway-restricted SMAD protein phosphorylation | 5 | 1 |
| GO:0060452//positive regulation of cardiac muscle contraction | 5 | 1 |
| GO:0060605//tube lumen cavitation | 5 | 1 |
| GO:0060662//salivary gland cavitation | 5 | 1 |
| GO:0060687//regulation of branching involved in prostate gland morphogen | 5 | 1 |
| GO:0060696//regulation of phospholipid catabolic process | 5 | 1 |
| GO:0060710//chorio-allantoic fusion | 5 | 1 |
| GO:0060977//coronary vasculature morphogenesis | 5 | 1 |
| GO:0061037//negative regulation of cartilage development | 5 | 1 |
| GO:0061316//canonical Wnt receptor signaling pathway involved in heart de | 5 | 1 |

| | | |
|--|------|----|
| GO:0061525//hindgut development | 5 | 1 |
| GO:0070120//ciliary neurotrophic factor-mediated signaling pathway | 5 | 1 |
| GO:0070295//renal water absorption | 5 | 1 |
| GO:0070383//DNA cytosine deamination | 5 | 1 |
| GO:0070424//regulation of nucleotide-binding oligomerization domain conta | 5 | 1 |
| GO:0071361//cellular response to ethanol | 5 | 1 |
| GO:0071380//cellular response to prostaglandin E stimulus | 5 | 1 |
| GO:0071503//response to heparin | 5 | 1 |
| GO:0071680//response to indole-3-methanol | 5 | 1 |
| GO:0071681//cellular response to indole-3-methanol | 5 | 1 |
| GO:0071731//response to nitric oxide | 5 | 1 |
| GO:0072008//glomerular mesangial cell differentiation | 5 | 1 |
| GO:0072124//regulation of glomerular mesangial cell proliferation | 5 | 1 |
| GO:0072143//mesangial cell development | 5 | 1 |
| GO:0072161//mesenchymal cell differentiation involved in kidney developm | 5 | 1 |
| GO:0072171//mesonephric tubule morphogenesis | 5 | 1 |
| GO:0072298//regulation of metanephric glomerulus development | 5 | 1 |
| GO:0072307//regulation of metanephric nephron tubule epithelial cell differe | 5 | 1 |
| GO:0072338//cellular lactam metabolic process | 5 | 1 |
| GO:0090232//positive regulation of spindle checkpoint | 5 | 1 |
| GO:0090244//Wnt receptor signaling pathway involved in somitogenesis | 5 | 1 |
| GO:0090381//regulation of heart induction | 5 | 1 |
| GO:0097205//renal filtration | 5 | 1 |
| GO:1900027//regulation of ruffle assembly | 5 | 1 |
| GO:1900107//regulation of nodal signaling pathway | 5 | 1 |
| GO:1901385//regulation of voltage-gated calcium channel activity | 5 | 1 |
| GO:1901618//organic hydroxy compound transmembrane transporter activi | 5 | 1 |
| GO:1901978//positive regulation of cell cycle checkpoint | 5 | 1 |
| GO:2000018//regulation of male gonad development | 5 | 1 |
| GO:2000048//negative regulation of cell-cell adhesion mediated by cadherin | 5 | 1 |
| GO:2000279//negative regulation of DNA biosynthetic process | 5 | 1 |
| GO:2000353//positive regulation of endothelial cell apoptotic process | 5 | 1 |
| GO:2000738//positive regulation of stem cell differentiation | 5 | 1 |
| GO:2000973//regulation of pro-B cell differentiation | 5 | 1 |
| GO:2001012//mesenchymal cell differentiation involved in renal system dev | 5 | 1 |
| GO:2001279//regulation of unsaturated fatty acid biosynthetic process | 5 | 1 |
| GO:NM_0032 | 5 | 1 |
| GO:NM_0048 | 5 | 1 |
| GO:NM_0062 | 5 | 1 |
| GO:NM_0124 | 5 | 1 |
| GO:NM_0230 | 5 | 1 |
| GO:NR_0021 | 5 | 1 |
| GO:0006464//cellular protein modification process | 1902 | 85 |
| GO:0036211//protein modification process | 1902 | 85 |
| GO:0007259//JAK-STAT cascade | 37 | 3 |
| GO:0009187//cyclic nucleotide metabolic process | 37 | 3 |
| GO:0034103//regulation of tissue remodeling | 37 | 3 |
| GO:0042993//positive regulation of transcription factor import into nucleus | 37 | 3 |
| GO:0048806//genitalia development | 37 | 3 |
| GO:0001818//negative regulation of cytokine production | 136 | 8 |
| GO:0030162//regulation of proteolysis | 157 | 9 |
| GO:0002694//regulation of leukocyte activation | 375 | 19 |
| GO:0051899//membrane depolarization | 56 | 4 |
| GO:0002026//regulation of the force of heart contraction | 20 | 2 |
| GO:0005242//inward rectifier potassium channel activity | 20 | 2 |
| GO:0006658//phosphatidylserine metabolic process | 20 | 2 |
| GO:0007220//Notch receptor processing | 20 | 2 |
| GO:0010453//regulation of cell fate commitment | 20 | 2 |

| | | |
|---|-----|----|
| GO:0010888//negative regulation of lipid storage | 20 | 2 |
| GO:0021952//central nervous system projection neuron axonogenesis | 20 | 2 |
| GO:0030101//natural killer cell activation | 20 | 2 |
| GO:0031102//neuron projection regeneration | 20 | 2 |
| GO:0033144//negative regulation of intracellular steroid hormone receptor s | 20 | 2 |
| GO:0033198//response to ATP | 20 | 2 |
| GO:0034308//primary alcohol metabolic process | 20 | 2 |
| GO:0044062//regulation of excretion | 20 | 2 |
| GO:0045073//regulation of chemokine biosynthetic process | 20 | 2 |
| GO:0046579//positive regulation of Ras protein signal transduction | 20 | 2 |
| GO:0048512//circadian behavior | 20 | 2 |
| GO:0048596//embryonic camera-type eye morphogenesis | 20 | 2 |
| GO:0050706//regulation of interleukin-1 beta secretion | 20 | 2 |
| GO:0051926//negative regulation of calcium ion transport | 20 | 2 |
| GO:0055021//regulation of cardiac muscle tissue growth | 20 | 2 |
| GO:0071320//cellular response to cAMP | 20 | 2 |
| GO:1900087//positive regulation of G1/S transition of mitotic cell cycle | 20 | 2 |
| GO:2001237//negative regulation of extrinsic apoptotic signaling pathway | 20 | 2 |
| GO:0050792//regulation of viral process | 96 | 6 |
| GO:0000079//regulation of cyclin-dependent protein serine/threonine kinase | 76 | 5 |
| GO:0006984//ER-nucleus signaling pathway | 76 | 5 |
| GO:0015718//monocarboxylic acid transport | 76 | 5 |
| GO:0050870//positive regulation of T cell activation | 201 | 11 |
| GO:0006833//water transport | 38 | 3 |
| GO:0014823//response to activity | 38 | 3 |
| GO:0015908//fatty acid transport | 38 | 3 |
| GO:0042308//negative regulation of protein import into nucleus | 38 | 3 |
| GO:0048741//skeletal muscle fiber development | 38 | 3 |
| GO:1901880//negative regulation of protein depolymerization | 38 | 3 |
| GO:0045833//negative regulation of lipid metabolic process | 57 | 4 |
| GO:0007188//adenylate cyclase-modulating G-protein coupled receptor sigi | 97 | 6 |
| GO:0043280//positive regulation of cysteine-type endopeptidase activity inv | 97 | 6 |
| GO:0009913//epidermal cell differentiation | 77 | 5 |
| GO:0035967//cellular response to topologically incorrect protein | 77 | 5 |
| GO:0044087//regulation of cellular component biogenesis | 312 | 16 |
| GO:0051817//modification of morphology or physiology of other organism ir | 268 | 14 |
| GO:0015079//potassium ion transmembrane transporter activity | 118 | 7 |
| GO:0035966//response to topologically incorrect protein | 118 | 7 |
| GO:0005244//voltage-gated ion channel activity | 139 | 8 |
| GO:0022832//voltage-gated channel activity | 139 | 8 |
| GO:0006638//neutral lipid metabolic process | 98 | 6 |
| GO:0006639//acylglycerol metabolic process | 98 | 6 |
| GO:0001823//mesonephros development | 21 | 2 |
| GO:0003197//endocardial cushion development | 21 | 2 |
| GO:0005247//voltage-gated chloride channel activity | 21 | 2 |
| GO:0007622//rhythmic behavior | 21 | 2 |
| GO:0008308//voltage-gated anion channel activity | 21 | 2 |
| GO:0043113//receptor clustering | 21 | 2 |
| GO:0043124//negative regulation of I-kappaB kinase/NF-kappaB cascade | 21 | 2 |
| GO:0045879//negative regulation of smoothened signaling pathway | 21 | 2 |
| GO:0046135//pyrimidine nucleoside catabolic process | 21 | 2 |
| GO:0046717//acid secretion | 21 | 2 |
| GO:0048048//embryonic eye morphogenesis | 21 | 2 |
| GO:0001843//neural tube closure | 58 | 4 |
| GO:0042110//T cell activation | 161 | 9 |
| GO:0002260//lymphocyte homeostasis | 39 | 3 |
| GO:0009161//ribonucleoside monophosphate metabolic process | 39 | 3 |
| GO:0032720//negative regulation of tumor necrosis factor production | 39 | 3 |

| | | |
|--|------|-----|
| GO:0042345//regulation of NF-kappaB import into nucleus | 39 | 3 |
| GO:0045861//negative regulation of proteolysis | 39 | 3 |
| GO:0002262//myeloid cell homeostasis | 78 | 5 |
| GO:0050729//positive regulation of inflammatory response | 78 | 5 |
| GO:0009416//response to light stimulus | 226 | 12 |
| GO:0019219//regulation of nucleobase-containing compound metabolic pro | 3304 | 143 |
| GO:0006793//phosphorus metabolic process | 1824 | 81 |
| GO:1900542//regulation of purine nucleotide metabolic process | 405 | 20 |
| GO:0051924//regulation of calcium ion transport | 120 | 7 |
| GO:0003014//renal system process | 59 | 4 |
| GO:0009798//axis specification | 59 | 4 |
| GO:0060606//tube closure | 59 | 4 |
| GO:0030097//hemopoiesis | 361 | 18 |
| GO:0001514//selenocysteine incorporation | 6 | 1 |
| GO:0002072//optic cup morphogenesis involved in camera-type eye develo | 6 | 1 |
| GO:0002327//immature B cell differentiation | 6 | 1 |
| GO:0002866//positive regulation of acute inflammatory response to antigen | 6 | 1 |
| GO:0002885//positive regulation of hypersensitivity | 6 | 1 |
| GO:0003097//renal water transport | 6 | 1 |
| GO:0003306//Wnt receptor signaling pathway involved in heart developmer | 6 | 1 |
| GO:0006290//pyrimidine dimer repair | 6 | 1 |
| GO:0006451//translational readthrough | 6 | 1 |
| GO:0006477//protein sulfation | 6 | 1 |
| GO:0006537//glutamate biosynthetic process | 6 | 1 |
| GO:0006924//activation-induced cell death of T cells | 6 | 1 |
| GO:0008356//asymmetric cell division | 6 | 1 |
| GO:0009111//vitamin catabolic process | 6 | 1 |
| GO:0009186//deoxyribonucleoside diphosphate metabolic process | 6 | 1 |
| GO:0009996//negative regulation of cell fate specification | 6 | 1 |
| GO:0010614//negative regulation of cardiac muscle hypertrophy | 6 | 1 |
| GO:0010715//regulation of extracellular matrix disassembly | 6 | 1 |
| GO:0010867//positive regulation of triglyceride biosynthetic process | 6 | 1 |
| GO:0010890//positive regulation of sequestering of triglyceride | 6 | 1 |
| GO:0010944//negative regulation of transcription by competitive promoter b | 6 | 1 |
| GO:0014012//peripheral nervous system axon regeneration | 6 | 1 |
| GO:0014067//negative regulation of phosphatidylinositol 3-kinase cascade | 6 | 1 |
| GO:0014819//regulation of skeletal muscle contraction | 6 | 1 |
| GO:0015187//glycine transmembrane transporter activity | 6 | 1 |
| GO:0015808//L-alanine transport | 6 | 1 |
| GO:0015809//arginine transport | 6 | 1 |
| GO:0015816//glycine transport | 6 | 1 |
| GO:0016115//terpenoid catabolic process | 6 | 1 |
| GO:0021535//cell migration in hindbrain | 6 | 1 |
| GO:0021546//rhombomere development | 6 | 1 |
| GO:0021681//cerebellar granular layer development | 6 | 1 |
| GO:0021819//layer formation in cerebral cortex | 6 | 1 |
| GO:0021859//pyramidal neuron differentiation | 6 | 1 |
| GO:0021860//pyramidal neuron development | 6 | 1 |
| GO:0030300//regulation of intestinal cholesterol absorption | 6 | 1 |
| GO:0031639//plasminogen activation | 6 | 1 |
| GO:0031643//positive regulation of myelination | 6 | 1 |
| GO:0032222//regulation of synaptic transmission, cholinergic | 6 | 1 |
| GO:0032287//peripheral nervous system myelin maintenance | 6 | 1 |
| GO:0032623//interleukin-2 production | 6 | 1 |
| GO:0032667//regulation of interleukin-23 production | 6 | 1 |
| GO:0032811//negative regulation of epinephrine secretion | 6 | 1 |
| GO:0033147//negative regulation of intracellular estrogen receptor signaling | 6 | 1 |
| GO:0034350//regulation of glial cell apoptotic process | 6 | 1 |

| | | |
|--|-----|---|
| GO:0034351//negative regulation of glial cell apoptotic process | 6 | 1 |
| GO:0035728//response to hepatocyte growth factor stimulus | 6 | 1 |
| GO:0035729//cellular response to hepatocyte growth factor stimulus | 6 | 1 |
| GO:0035965//cardiolipin acyl-chain remodeling | 6 | 1 |
| GO:0040016//embryonic cleavage | 6 | 1 |
| GO:0042363//fat-soluble vitamin catabolic process | 6 | 1 |
| GO:0042482//positive regulation of odontogenesis | 6 | 1 |
| GO:0042661//regulation of mesodermal cell fate specification | 6 | 1 |
| GO:0043117//positive regulation of vascular permeability | 6 | 1 |
| GO:0043615//astrocyte cell migration | 6 | 1 |
| GO:0044557//relaxation of smooth muscle | 6 | 1 |
| GO:0045188//regulation of circadian sleep/wake cycle, non-REM sleep | 6 | 1 |
| GO:0045630//positive regulation of T-helper 2 cell differentiation | 6 | 1 |
| GO:0045634//regulation of melanocyte differentiation | 6 | 1 |
| GO:0045793//positive regulation of cell size | 6 | 1 |
| GO:0045916//negative regulation of complement activation | 6 | 1 |
| GO:0046596//regulation of viral entry into host cell | 6 | 1 |
| GO:0046628//positive regulation of insulin receptor signaling pathway | 6 | 1 |
| GO:0048643//positive regulation of skeletal muscle tissue development | 6 | 1 |
| GO:0048845//venous blood vessel morphogenesis | 6 | 1 |
| GO:0050942//positive regulation of pigment cell differentiation | 6 | 1 |
| GO:0051497//negative regulation of stress fiber assembly | 6 | 1 |
| GO:0055119//relaxation of cardiac muscle | 6 | 1 |
| GO:0060259//regulation of feeding behavior | 6 | 1 |
| GO:0060601//lateral sprouting from an epithelium | 6 | 1 |
| GO:0060969//negative regulation of gene silencing | 6 | 1 |
| GO:0060986//endocrine hormone secretion | 6 | 1 |
| GO:0060999//positive regulation of dendritic spine development | 6 | 1 |
| GO:0070166//enamel mineralization | 6 | 1 |
| GO:0070170//regulation of tooth mineralization | 6 | 1 |
| GO:0071071//regulation of phospholipid biosynthetic process | 6 | 1 |
| GO:0072007//mesangial cell differentiation | 6 | 1 |
| GO:0072173//metanephric tubule morphogenesis | 6 | 1 |
| GO:0072282//metanephric nephron tubule morphogenesis | 6 | 1 |
| GO:0086069//bundle of His cell to Purkinje myocyte communication | 6 | 1 |
| GO:0090280//positive regulation of calcium ion import | 6 | 1 |
| GO:0097090//presynaptic membrane organization | 6 | 1 |
| GO:1901016//regulation of potassium ion transmembrane transporter activiti | 6 | 1 |
| GO:1901532//regulation of hematopoietic progenitor cell differentiation | 6 | 1 |
| GO:1901998//toxin transport | 6 | 1 |
| GO:2000188//regulation of cholesterol homeostasis | 6 | 1 |
| GO:2000258//negative regulation of protein activation cascade | 6 | 1 |
| GO:2001026//regulation of endothelial cell chemotaxis | 6 | 1 |
| GO:NM_0003 | 6 | 1 |
| GO:NM_0013 | 6 | 1 |
| GO:0031018//endocrine pancreas development | 40 | 3 |
| GO:0032231//regulation of actin filament bundle assembly | 40 | 3 |
| GO:0035265//organ growth | 40 | 3 |
| GO:0048385//regulation of retinoic acid receptor signaling pathway | 40 | 3 |
| GO:0050807//regulation of synapse organization | 40 | 3 |
| GO:0070988//demethylation | 40 | 3 |
| GO:0006813//potassium ion transport | 121 | 7 |
| GO:0043903//regulation of symbiosis, encompassing mutualism through pa | 121 | 7 |
| GO:0001937//negative regulation of endothelial cell proliferation | 22 | 2 |
| GO:0006706//steroid catabolic process | 22 | 2 |
| GO:0008299//isoprenoid biosynthetic process | 22 | 2 |
| GO:0030104//water homeostasis | 22 | 2 |
| GO:0032845//negative regulation of homeostatic process | 22 | 2 |

| | | |
|--|------|-----|
| GO:0035115//embryonic forelimb morphogenesis | 22 | 2 |
| GO:0035329//hippo signaling cascade | 22 | 2 |
| GO:0045622//regulation of T-helper cell differentiation | 22 | 2 |
| GO:0046006//regulation of activated T cell proliferation | 22 | 2 |
| GO:0048535//lymph node development | 22 | 2 |
| GO:0060119//inner ear receptor cell development | 22 | 2 |
| GO:0061337//cardiac conduction | 22 | 2 |
| GO:0070373//negative regulation of ERK1 and ERK2 cascade | 22 | 2 |
| GO:0006140//regulation of nucleotide metabolic process | 408 | 20 |
| GO:0042157//lipoprotein metabolic process | 80 | 5 |
| GO:0015833//peptide transport | 60 | 4 |
| GO:0010556//regulation of macromolecule biosynthetic process | 3052 | 132 |
| GO:0007276//gamete generation | 454 | 22 |
| GO:0046649//lymphocyte activation | 252 | 13 |
| GO:0055008//cardiac muscle tissue morphogenesis | 41 | 3 |
| GO:0071621//granulocyte chemotaxis | 41 | 3 |
| GO:0015081//sodium ion transmembrane transporter activity | 81 | 5 |
| GO:0046467//membrane lipid biosynthetic process | 81 | 5 |
| GO:0007281//germ cell development | 123 | 7 |
| GO:0005267//potassium channel activity | 102 | 6 |
| GO:0007498//mesoderm development | 102 | 6 |
| GO:0070646//protein modification by small protein removal | 61 | 4 |
| GO:0006887//exocytosis | 188 | 10 |
| GO:0030900//forebrain development | 232 | 12 |
| GO:0090068//positive regulation of cell cycle process | 145 | 8 |
| GO:0005979//regulation of glycogen biosynthetic process | 23 | 2 |
| GO:0010962//regulation of glucan biosynthetic process | 23 | 2 |
| GO:0014037//Schwann cell differentiation | 23 | 2 |
| GO:0015804//neutral amino acid transport | 23 | 2 |
| GO:0021955//central nervous system neuron axonogenesis | 23 | 2 |
| GO:0030049//muscle filament sliding | 23 | 2 |
| GO:0030835//negative regulation of actin filament depolymerization | 23 | 2 |
| GO:0032731//positive regulation of interleukin-1 beta production | 23 | 2 |
| GO:0038061//NIK/NF-kappaB cascade | 23 | 2 |
| GO:0050869//negative regulation of B cell activation | 23 | 2 |
| GO:0051496//positive regulation of stress fiber assembly | 23 | 2 |
| GO:0060420//regulation of heart growth | 23 | 2 |
| GO:0045321//leukocyte activation | 322 | 16 |
| GO:0030799//regulation of cyclic nucleotide metabolic process | 124 | 7 |
| GO:0010827//regulation of glucose transport | 82 | 5 |
| GO:0051052//regulation of DNA metabolic process | 189 | 10 |
| GO:0040008//regulation of growth | 436 | 21 |
| GO:0002028//regulation of sodium ion transport | 42 | 3 |
| GO:0008514//organic anion transmembrane transporter activity | 42 | 3 |
| GO:0048483//autonomic nervous system development | 42 | 3 |
| GO:0015276//ligand-gated ion channel activity | 83 | 5 |
| GO:0022834//ligand-gated channel activity | 83 | 5 |
| GO:0050808//synapse organization | 83 | 5 |
| GO:0006355//regulation of transcription, DNA-dependent | 2732 | 118 |
| GO:0035821//modification of morphology or physiology of other organism | 280 | 14 |
| GO:0000712//resolution of meiotic recombination intermediates | 7 | 1 |
| GO:0001574//ganglioside biosynthetic process | 7 | 1 |
| GO:0001779//natural killer cell differentiation | 7 | 1 |
| GO:0001955//blood vessel maturation | 7 | 1 |
| GO:0002279//mast cell activation involved in immune response | 7 | 1 |
| GO:0002367//cytokine production involved in immune response | 7 | 1 |
| GO:0002507//tolerance induction | 7 | 1 |
| GO:0002634//regulation of germinal center formation | 7 | 1 |

| | | |
|--|---|---|
| GO:0003159//morphogenesis of an endothelium | 7 | 1 |
| GO:0005218//intracellular ligand-gated calcium channel activity | 7 | 1 |
| GO:0006002//fructose 6-phosphate metabolic process | 7 | 1 |
| GO:0006068//ethanol catabolic process | 7 | 1 |
| GO:0006171//cAMP biosynthetic process | 7 | 1 |
| GO:0006208//pyrimidine nucleobase catabolic process | 7 | 1 |
| GO:0006265//DNA topological change | 7 | 1 |
| GO:0006701//progesterone biosynthetic process | 7 | 1 |
| GO:0007183//SMAD protein complex assembly | 7 | 1 |
| GO:0007494//midgut development | 7 | 1 |
| GO:0008228//opsonization | 7 | 1 |
| GO:0008343//adult feeding behavior | 7 | 1 |
| GO:0009125//nucleoside monophosphate catabolic process | 7 | 1 |
| GO:0009265//2-deoxyribonucleotide biosynthetic process | 7 | 1 |
| GO:0009415//response to water stimulus | 7 | 1 |
| GO:0010172//embryonic body morphogenesis | 7 | 1 |
| GO:0010528//regulation of transposition | 7 | 1 |
| GO:0010529//negative regulation of transposition | 7 | 1 |
| GO:0010642//negative regulation of platelet-derived growth factor receptor signaling pathway | 7 | 1 |
| GO:0010700//negative regulation of norepinephrine secretion | 7 | 1 |
| GO:0010759//positive regulation of macrophage chemotaxis | 7 | 1 |
| GO:0014060//regulation of epinephrine secretion | 7 | 1 |
| GO:0014741//negative regulation of muscle hypertrophy | 7 | 1 |
| GO:0015271//outward rectifier potassium channel activity | 7 | 1 |
| GO:0016322//neuron remodeling | 7 | 1 |
| GO:0021801//cerebral cortex radial glia guided migration | 7 | 1 |
| GO:0030210//heparin biosynthetic process | 7 | 1 |
| GO:0030917//midbrain-hindbrain boundary development | 7 | 1 |
| GO:0033483//gas homeostasis | 7 | 1 |
| GO:0034135//regulation of toll-like receptor 2 signaling pathway | 7 | 1 |
| GO:0034370//triglyceride-rich lipoprotein particle remodeling | 7 | 1 |
| GO:0035458//cellular response to interferon-beta | 7 | 1 |
| GO:0035855//megakaryocyte development | 7 | 1 |
| GO:0042364//water-soluble vitamin biosynthetic process | 7 | 1 |
| GO:0042415//norepinephrine metabolic process | 7 | 1 |
| GO:0043303//mast cell degranulation | 7 | 1 |
| GO:0043353//enucleate erythrocyte differentiation | 7 | 1 |
| GO:0043371//negative regulation of CD4-positive, alpha-beta T cell differentiation | 7 | 1 |
| GO:0043517//positive regulation of DNA damage response, signal transduction | 7 | 1 |
| GO:0044030//regulation of DNA methylation | 7 | 1 |
| GO:0044068//modulation by symbiont of host cellular process | 7 | 1 |
| GO:0045623//negative regulation of T-helper cell differentiation | 7 | 1 |
| GO:0045719//negative regulation of glycogen biosynthetic process | 7 | 1 |
| GO:0046385//deoxyribose phosphate biosynthetic process | 7 | 1 |
| GO:0046500//S-adenosylmethionine metabolic process | 7 | 1 |
| GO:0048537//mucosal-associated lymphoid tissue development | 7 | 1 |
| GO:0048541//Peyers patch development | 7 | 1 |
| GO:0050667//homocysteine metabolic process | 7 | 1 |
| GO:0051024//positive regulation of immunoglobulin secretion | 7 | 1 |
| GO:0051938//L-glutamate import | 7 | 1 |
| GO:0060147//regulation of posttranscriptional gene silencing | 7 | 1 |
| GO:0060253//negative regulation of glial cell proliferation | 7 | 1 |
| GO:0060363//cranial suture morphogenesis | 7 | 1 |
| GO:0060561//apoptotic process involved in morphogenesis | 7 | 1 |
| GO:0060770//negative regulation of epithelial cell proliferation involved in morphogenesis | 7 | 1 |
| GO:0060911//cardiac cell fate commitment | 7 | 1 |
| GO:0060964//regulation of gene silencing by miRNA | 7 | 1 |
| GO:0060966//regulation of gene silencing by RNA | 7 | 1 |

| | | |
|--|------|-----|
| GO:0060973//cell migration involved in heart development | 7 | 1 |
| GO:0061154//endothelial tube morphogenesis | 7 | 1 |
| GO:0061314//Notch signaling involved in heart development | 7 | 1 |
| GO:0070231//T cell apoptotic process | 7 | 1 |
| GO:0070884//regulation of calcineurin-NFAT signaling cascade | 7 | 1 |
| GO:0071295//cellular response to vitamin | 7 | 1 |
| GO:0071875//adrenergic receptor signaling pathway | 7 | 1 |
| GO:0072070//loop of Henle development | 7 | 1 |
| GO:0090201//negative regulation of release of cytochrome c from mitochondrion | 7 | 1 |
| GO:1900017//positive regulation of cytokine production involved in inflammatory response | 7 | 1 |
| GO:1901722//regulation of cell proliferation involved in kidney development | 7 | 1 |
| GO:1901798//positive regulation of signal transduction by p53 class mediator | 7 | 1 |
| GO:2000482//regulation of interleukin-8 secretion | 7 | 1 |
| GO:2000810//regulation of tight junction assembly | 7 | 1 |
| GO:2001212//regulation of vasculogenesis | 7 | 1 |
| GO:NR_0268 | 7 | 1 |
| GO:0014020//primary neural tube formation | 63 | 4 |
| GO:0071248//cellular response to metal ion | 63 | 4 |
| GO:0001709//cell fate determination | 43 | 3 |
| GO:0006835//dicarboxylic acid transport | 43 | 3 |
| GO:0008589//regulation of smoothened signaling pathway | 43 | 3 |
| GO:0019233//sensory perception of pain | 43 | 3 |
| GO:0043525//positive regulation of neuron apoptotic process | 43 | 3 |
| GO:0045446//endothelial cell differentiation | 43 | 3 |
| GO:0046823//negative regulation of nucleocytoplasmic transport | 43 | 3 |
| GO:0060675//ureteric bud morphogenesis | 43 | 3 |
| GO:0002244//hematopoietic progenitor cell differentiation | 24 | 2 |
| GO:0007266//Rho protein signal transduction | 24 | 2 |
| GO:0010543//regulation of platelet activation | 24 | 2 |
| GO:0010596//negative regulation of endothelial cell migration | 24 | 2 |
| GO:0033275//actin-myosin filament sliding | 24 | 2 |
| GO:0035116//embryonic hindlimb morphogenesis | 24 | 2 |
| GO:0046676//negative regulation of insulin secretion | 24 | 2 |
| GO:0051043//regulation of membrane protein ectodomain proteolysis | 24 | 2 |
| GO:0051180//vitamin transport | 24 | 2 |
| GO:0051953//negative regulation of amine transport | 24 | 2 |
| GO:0055090//acylglycerol homeostasis | 24 | 2 |
| GO:0070328//triglyceride homeostasis | 24 | 2 |
| GO:0050670//regulation of lymphocyte proliferation | 148 | 8 |
| GO:0001819//positive regulation of cytokine production | 214 | 11 |
| GO:0015267//channel activity | 304 | 15 |
| GO:0022803//passive transmembrane transporter activity | 304 | 15 |
| GO:0032944//regulation of mononuclear cell proliferation | 149 | 8 |
| GO:0032318//regulation of Ras GTPase activity | 193 | 10 |
| GO:0030802//regulation of cyclic nucleotide biosynthetic process | 106 | 6 |
| GO:0030810//positive regulation of nucleotide biosynthetic process | 64 | 4 |
| GO:0042990//regulation of transcription factor import into nucleus | 64 | 4 |
| GO:0051494//negative regulation of cytoskeleton organization | 64 | 4 |
| GO:1900373//positive regulation of purine nucleotide biosynthetic process | 64 | 4 |
| GO:0009855//determination of bilateral symmetry | 85 | 5 |
| GO:0032434//regulation of proteasomal ubiquitin-dependent protein catabolic process | 44 | 3 |
| GO:0097285//cell-type specific apoptotic process | 44 | 3 |
| GO:1901216//positive regulation of neuron death | 44 | 3 |
| GO:0002699//positive regulation of immune effector process | 128 | 7 |
| GO:2001141//regulation of RNA biosynthetic process | 2744 | 118 |
| GO:0016192//vesicle-mediated transport | 768 | 35 |
| GO:0007268//synaptic transmission | 444 | 21 |
| GO:0031331//positive regulation of cellular catabolic process | 107 | 6 |

| | | |
|--|-----|----|
| GO:0000578//embryonic axis specification | 25 | 2 |
| GO:0033344//cholesterol efflux | 25 | 2 |
| GO:0035019//somatic stem cell maintenance | 25 | 2 |
| GO:0035065//regulation of histone acetylation | 25 | 2 |
| GO:0045055//regulated secretory pathway | 25 | 2 |
| GO:0046326//positive regulation of glucose import | 25 | 2 |
| GO:0046471//phosphatidylglycerol metabolic process | 25 | 2 |
| GO:0072348//sulfur compound transport | 25 | 2 |
| GO:0090199//regulation of release of cytochrome c from mitochondria | 25 | 2 |
| GO:1901019//regulation of calcium ion transmembrane transporter activity | 25 | 2 |
| GO:2001234//negative regulation of apoptotic signaling pathway | 25 | 2 |
| GO:0033135//regulation of peptidyl-serine phosphorylation | 65 | 4 |
| GO:0090100//positive regulation of transmembrane receptor protein serine/ | 65 | 4 |
| GO:0009799//specification of symmetry | 86 | 5 |
| GO:0048638//regulation of developmental growth | 86 | 5 |
| GO:0006650//glycerophospholipid metabolic process | 218 | 11 |
| GO:0045740//positive regulation of DNA replication | 45 | 3 |
| GO:0050803//regulation of synapse structure and activity | 45 | 3 |
| GO:0021953//central nervous system neuron differentiation | 108 | 6 |
| GO:0030879//mammary gland development | 108 | 6 |
| GO:0009118//regulation of nucleoside metabolic process | 286 | 14 |
| GO:0046486//glycerolipid metabolic process | 286 | 14 |
| GO:0008654//phospholipid biosynthetic process | 196 | 10 |
| GO:0071214//cellular response to abiotic stimulus | 130 | 7 |
| GO:0022890//inorganic cation transmembrane transporter activity | 355 | 17 |
| GO:0050863//regulation of T cell activation | 264 | 13 |
| GO:0002573//myeloid leukocyte differentiation | 66 | 4 |
| GO:0032846//positive regulation of homeostatic process | 66 | 4 |
| GO:0000729//DNA double-strand break processing | 8 | 1 |
| GO:0002448//mast cell mediated immunity | 8 | 1 |
| GO:0002883//regulation of hypersensitivity | 8 | 1 |
| GO:0002921//negative regulation of humoral immune response | 8 | 1 |
| GO:0003148//outflow tract septum morphogenesis | 8 | 1 |
| GO:0003339//regulation of mesenchymal to epithelial transition involved in | 8 | 1 |
| GO:0005391//sodium:potassium-exchanging ATPase activity | 8 | 1 |
| GO:0006216//cytidine catabolic process | 8 | 1 |
| GO:0006558//L-phenylalanine metabolic process | 8 | 1 |
| GO:0006559//L-phenylalanine catabolic process | 8 | 1 |
| GO:0006563//L-serine metabolic process | 8 | 1 |
| GO:0006707//cholesterol catabolic process | 8 | 1 |
| GO:0006817//phosphate ion transport | 8 | 1 |
| GO:0006853//carnitine shuttle | 8 | 1 |
| GO:0008300//isoprenoid catabolic process | 8 | 1 |
| GO:0009134//nucleoside diphosphate catabolic process | 8 | 1 |
| GO:0009135//purine nucleoside diphosphate metabolic process | 8 | 1 |
| GO:0009179//purine ribonucleoside diphosphate metabolic process | 8 | 1 |
| GO:0009972//cytidine deamination | 8 | 1 |
| GO:0010454//negative regulation of cell fate commitment | 8 | 1 |
| GO:0010661//positive regulation of muscle cell apoptotic process | 8 | 1 |
| GO:0010819//regulation of T cell chemotaxis | 8 | 1 |
| GO:0010820//positive regulation of T cell chemotaxis | 8 | 1 |
| GO:0014850//response to muscle activity | 8 | 1 |
| GO:0015810//aspartate transport | 8 | 1 |
| GO:0015884//folic acid transport | 8 | 1 |
| GO:0016127//sterol catabolic process | 8 | 1 |
| GO:0016540//protein autoprocessing | 8 | 1 |
| GO:0021873//forebrain neuroblast division | 8 | 1 |
| GO:0021903//rostrocaudal neural tube patterning | 8 | 1 |

| | | |
|--|---|---|
| GO:0030202//heparin metabolic process | 8 | 1 |
| GO:0030916//otic vesicle formation | 8 | 1 |
| GO:0031935//regulation of chromatin silencing | 8 | 1 |
| GO:0031953//negative regulation of protein autophosphorylation | 8 | 1 |
| GO:0032048//cardiolipin metabolic process | 8 | 1 |
| GO:0032232//negative regulation of actin filament bundle assembly | 8 | 1 |
| GO:0032328//alanine transport | 8 | 1 |
| GO:0032703//negative regulation of interleukin-2 production | 8 | 1 |
| GO:0033089//positive regulation of T cell differentiation in thymus | 8 | 1 |
| GO:0033197//response to vitamin E | 8 | 1 |
| GO:0033623//regulation of integrin activation | 8 | 1 |
| GO:0033634//positive regulation of cell-cell adhesion mediated by integrin | 8 | 1 |
| GO:0033962//cytoplasmic mRNA processing body assembly | 8 | 1 |
| GO:0034331//cell junction maintenance | 8 | 1 |
| GO:0034379//very-low-density lipoprotein particle assembly | 8 | 1 |
| GO:0042135//neurotransmitter catabolic process | 8 | 1 |
| GO:0042362//fat-soluble vitamin biosynthetic process | 8 | 1 |
| GO:0042416//dopamine biosynthetic process | 8 | 1 |
| GO:0043092//L-amino acid import | 8 | 1 |
| GO:0045217//cell-cell junction maintenance | 8 | 1 |
| GO:0045540//regulation of cholesterol biosynthetic process | 8 | 1 |
| GO:0045605//negative regulation of epidermal cell differentiation | 8 | 1 |
| GO:0045625//regulation of T-helper 1 cell differentiation | 8 | 1 |
| GO:0045651//positive regulation of macrophage differentiation | 8 | 1 |
| GO:0045779//negative regulation of bone resorption | 8 | 1 |
| GO:0045989//positive regulation of striated muscle contraction | 8 | 1 |
| GO:0046085//adenosine metabolic process | 8 | 1 |
| GO:0046087//cytidine metabolic process | 8 | 1 |
| GO:0046548//retinal rod cell development | 8 | 1 |
| GO:0046599//regulation of centriole replication | 8 | 1 |
| GO:0048087//positive regulation of developmental pigmentation | 8 | 1 |
| GO:0048340//paraxial mesoderm morphogenesis | 8 | 1 |
| GO:0048532//anatomical structure arrangement | 8 | 1 |
| GO:0048569//post-embryonic organ development | 8 | 1 |
| GO:0048714//positive regulation of oligodendrocyte differentiation | 8 | 1 |
| GO:0050665//hydrogen peroxide biosynthetic process | 8 | 1 |
| GO:0050932//regulation of pigment cell differentiation | 8 | 1 |
| GO:0051151//negative regulation of smooth muscle cell differentiation | 8 | 1 |
| GO:0051156//glucose 6-phosphate metabolic process | 8 | 1 |
| GO:0051307//meiotic chromosome separation | 8 | 1 |
| GO:0051782//negative regulation of cell division | 8 | 1 |
| GO:0051895//negative regulation of focal adhesion assembly | 8 | 1 |
| GO:0052173//response to defenses of other organism involved in symbiotic | 8 | 1 |
| GO:0052200//response to host defenses | 8 | 1 |
| GO:0055091//phospholipid homeostasis | 8 | 1 |
| GO:0060055//angiogenesis involved in wound healing | 8 | 1 |
| GO:0060439//trachea morphogenesis | 8 | 1 |
| GO:0060575//intestinal epithelial cell differentiation | 8 | 1 |
| GO:0060592//mammary gland formation | 8 | 1 |
| GO:0060900//embryonic camera-type eye formation | 8 | 1 |
| GO:0061028//establishment of endothelial barrier | 8 | 1 |
| GO:0070233//negative regulation of T cell apoptotic process | 8 | 1 |
| GO:0070472//regulation of uterine smooth muscle contraction | 8 | 1 |
| GO:0070986//left/right axis specification | 8 | 1 |
| GO:0071236//cellular response to antibiotic | 8 | 1 |
| GO:0071480//cellular response to gamma radiation | 8 | 1 |
| GO:0071498//cellular response to fluid shear stress | 8 | 1 |
| GO:0071772//response to BMP stimulus | 8 | 1 |

| | | |
|---|------|-----|
| GO:0071773//cellular response to BMP stimulus | 8 | 1 |
| GO:0072015//glomerular visceral epithelial cell development | 8 | 1 |
| GO:0075136//response to host | 8 | 1 |
| GO:0090330//regulation of platelet aggregation | 8 | 1 |
| GO:0097186//amelogenesis | 8 | 1 |
| GO:1900024//regulation of substrate adhesion-dependent cell spreading | 8 | 1 |
| GO:1901379//regulation of potassium ion transmembrane transport | 8 | 1 |
| GO:1901889//negative regulation of cell junction assembly | 8 | 1 |
| GO:1902221//erythrose 4-phosphate/phosphoenolpyruvate family amino ac | 8 | 1 |
| GO:1902222//erythrose 4-phosphate/phosphoenolpyruvate family amino ac | 8 | 1 |
| GO:2000114//regulation of establishment of cell polarity | 8 | 1 |
| GO:2000310//regulation of N-methyl-D-aspartate selective glutamate recep | 8 | 1 |
| GO:2000651//positive regulation of sodium ion transmembrane transporter | 8 | 1 |
| GO:NM_0068 | 8 | 1 |
| GO:0044242//cellular lipid catabolic process | 109 | 6 |
| GO:0007187//G-protein coupled receptor signaling pathway, coupled to cyc | 131 | 7 |
| GO:0001885//endothelial cell development | 26 | 2 |
| GO:0006775//fat-soluble vitamin metabolic process | 26 | 2 |
| GO:0009218//pyrimidine ribonucleotide metabolic process | 26 | 2 |
| GO:0022029//telencephalon cell migration | 26 | 2 |
| GO:0030901//midbrain development | 26 | 2 |
| GO:0042346//positive regulation of NF-kappaB import into nucleus | 26 | 2 |
| GO:0045923//positive regulation of fatty acid metabolic process | 26 | 2 |
| GO:0046626//regulation of insulin receptor signaling pathway | 26 | 2 |
| GO:0050805//negative regulation of synaptic transmission | 26 | 2 |
| GO:0052646//alditol phosphate metabolic process | 26 | 2 |
| GO:0070873//regulation of glycogen metabolic process | 26 | 2 |
| GO:2000756//regulation of peptidyl-lysine acetylation | 26 | 2 |
| GO:0048610//cellular process involved in reproduction | 334 | 16 |
| GO:0051249//regulation of lymphocyte activation | 334 | 16 |
| GO:0042446//hormone biosynthetic process | 46 | 3 |
| GO:0060415//muscle tissue morphogenesis | 46 | 3 |
| GO:1901879//regulation of protein depolymerization | 46 | 3 |
| GO:2000112//regulation of cellular macromolecule biosynthetic process | 2977 | 127 |
| GO:0032412//regulation of ion transmembrane transporter activity | 67 | 4 |
| GO:0034101//erythrocyte homeostasis | 67 | 4 |
| GO:0070588//calcium ion transmembrane transport | 67 | 4 |
| GO:1902106//negative regulation of leukocyte differentiation | 67 | 4 |
| GO:0044262//cellular carbohydrate metabolic process | 110 | 6 |
| GO:0043412//macromolecule modification | 2017 | 87 |
| GO:0015291//secondary active transmembrane transporter activity | 89 | 5 |
| GO:0005261//cation channel activity | 245 | 12 |
| GO:0097190//apoptotic signaling pathway | 200 | 10 |
| GO:0006213//pyrimidine nucleoside metabolic process | 47 | 3 |
| GO:0006987//activation of signaling protein activity involved in unfolded pro | 47 | 3 |
| GO:0009123//nucleoside monophosphate metabolic process | 47 | 3 |
| GO:0030216//keratinocyte differentiation | 47 | 3 |
| GO:0043154//negative regulation of cysteine-type endopeptidase activity in | 47 | 3 |
| GO:0043242//negative regulation of protein complex disassembly | 47 | 3 |
| GO:0050905//neuromuscular process | 68 | 4 |
| GO:0051251//positive regulation of lymphocyte activation | 246 | 12 |
| GO:0002067//glandular epithelial cell differentiation | 27 | 2 |
| GO:0002444//myeloid leukocyte mediated immunity | 27 | 2 |
| GO:0005251//delayed rectifier potassium channel activity | 27 | 2 |
| GO:0009132//nucleoside diphosphate metabolic process | 27 | 2 |
| GO:0010977//negative regulation of neuron projection development | 27 | 2 |
| GO:0021575//hindbrain morphogenesis | 27 | 2 |
| GO:0022408//negative regulation of cell-cell adhesion | 27 | 2 |

| | | |
|--|------|----|
| GO:0032233//positive regulation of actin filament bundle assembly | 27 | 2 |
| GO:0032885//regulation of polysaccharide biosynthetic process | 27 | 2 |
| GO:0043266//regulation of potassium ion transport | 27 | 2 |
| GO:0043370//regulation of CD4-positive, alpha-beta T cell differentiation | 27 | 2 |
| GO:0045931//positive regulation of mitotic cell cycle | 27 | 2 |
| GO:0050732//negative regulation of peptidyl-tyrosine phosphorylation | 27 | 2 |
| GO:0042742//defense response to bacterium | 156 | 8 |
| GO:0071702//organic substance transport | 1376 | 60 |
| GO:0006367//transcription initiation from RNA polymerase II promoter | 112 | 6 |
| GO:0010923//negative regulation of phosphatase activity | 69 | 4 |
| GO:0007611//learning or memory | 135 | 7 |
| GO:0002443//leukocyte mediated immunity | 180 | 9 |
| GO:0006518//peptide metabolic process | 91 | 5 |
| GO:0000160//phosphorelay signal transduction system | 9 | 1 |
| GO:0001504//neurotransmitter uptake | 9 | 1 |
| GO:0001736//establishment of planar polarity | 9 | 1 |
| GO:0001840//neural plate development | 9 | 1 |
| GO:0002070//epithelial cell maturation | 9 | 1 |
| GO:0002320//lymphoid progenitor cell differentiation | 9 | 1 |
| GO:0002864//regulation of acute inflammatory response to antigenic stimulus | 9 | 1 |
| GO:0003416//endochondral bone growth | 9 | 1 |
| GO:0005388//calcium-transporting ATPase activity | 9 | 1 |
| GO:0005513//detection of calcium ion | 9 | 1 |
| GO:0006266//DNA ligation | 9 | 1 |
| GO:0006516//glycoprotein catabolic process | 9 | 1 |
| GO:0006570//tyrosine metabolic process | 9 | 1 |
| GO:0007164//establishment of tissue polarity | 9 | 1 |
| GO:0007638//mechanosensory behavior | 9 | 1 |
| GO:0009649//entrainment of circadian clock | 9 | 1 |
| GO:0010640//regulation of platelet-derived growth factor receptor signaling | 9 | 1 |
| GO:0010758//regulation of macrophage chemotaxis | 9 | 1 |
| GO:0010870//positive regulation of receptor biosynthetic process | 9 | 1 |
| GO:0015280//ligand-gated sodium channel activity | 9 | 1 |
| GO:0015740//C4-dicarboxylate transport | 9 | 1 |
| GO:0015824//proline transport | 9 | 1 |
| GO:0019079//viral genome replication | 9 | 1 |
| GO:0019755//one-carbon compound transport | 9 | 1 |
| GO:0021940//positive regulation of cerebellar granule cell precursor proliferation | 9 | 1 |
| GO:0030220//platelet formation | 9 | 1 |
| GO:0032494//response to peptidoglycan | 9 | 1 |
| GO:0032691//negative regulation of interleukin-1 beta production | 9 | 1 |
| GO:0034764//positive regulation of transmembrane transport | 9 | 1 |
| GO:0034767//positive regulation of ion transmembrane transport | 9 | 1 |
| GO:0036344//platelet morphogenesis | 9 | 1 |
| GO:0040015//negative regulation of multicellular organism growth | 9 | 1 |
| GO:0042100//B cell proliferation | 9 | 1 |
| GO:0042511//positive regulation of tyrosine phosphorylation of Stat1 protein | 9 | 1 |
| GO:0042640//anagen | 9 | 1 |
| GO:0043217//myelin maintenance | 9 | 1 |
| GO:0043508//negative regulation of JUN kinase activity | 9 | 1 |
| GO:0045006//DNA deamination | 9 | 1 |
| GO:0045176//apical protein localization | 9 | 1 |
| GO:0046113//nucleobase catabolic process | 9 | 1 |
| GO:0046133//pyrimidine ribonucleoside catabolic process | 9 | 1 |
| GO:0046689//response to mercury ion | 9 | 1 |
| GO:0050884//neuromuscular process controlling posture | 9 | 1 |
| GO:0050951//sensory perception of temperature stimulus | 9 | 1 |
| GO:0055057//neuroblast division | 9 | 1 |

| | | |
|---|-----|----|
| GO:0060272//embryonic skeletal joint morphogenesis | 9 | 1 |
| GO:0070874//negative regulation of glycogen metabolic process | 9 | 1 |
| GO:0071350//cellular response to interleukin-15 | 9 | 1 |
| GO:0072017//distal tubule development | 9 | 1 |
| GO:0072202//cell differentiation involved in metanephros development | 9 | 1 |
| GO:0072310//glomerular epithelial cell development | 9 | 1 |
| GO:0072678//T cell migration | 9 | 1 |
| GO:0086005//regulation of ventricular cardiac muscle cell action potential | 9 | 1 |
| GO:0090049//regulation of cell migration involved in sprouting angiogenesis | 9 | 1 |
| GO:0090231//regulation of spindle checkpoint | 9 | 1 |
| GO:0097067//cellular response to thyroid hormone stimulus | 9 | 1 |
| GO:0097094//craniofacial suture morphogenesis | 9 | 1 |
| GO:0097237//cellular response to toxic substance | 9 | 1 |
| GO:0097267//omega-hydroxylase P450 pathway | 9 | 1 |
| GO:1900078//positive regulation of cellular response to insulin stimulus | 9 | 1 |
| GO:1901020//negative regulation of calcium ion transmembrane transporter activity | 9 | 1 |
| GO:2000036//regulation of stem cell maintenance | 9 | 1 |
| GO:2000352//negative regulation of endothelial cell apoptotic process | 9 | 1 |
| GO:2000515//negative regulation of CD4-positive, alpha-beta T cell activation | 9 | 1 |
| GO:2000772//regulation of cellular senescence | 9 | 1 |
| GO:0005245//voltage-gated calcium channel activity | 28 | 2 |
| GO:0006739//NADP metabolic process | 28 | 2 |
| GO:0007528//neuromuscular junction development | 28 | 2 |
| GO:0007628//adult walking behavior | 28 | 2 |
| GO:0021517//ventral spinal cord development | 28 | 2 |
| GO:0021885//forebrain cell migration | 28 | 2 |
| GO:0030834//regulation of actin filament depolymerization | 28 | 2 |
| GO:0030857//negative regulation of epithelial cell differentiation | 28 | 2 |
| GO:0048333//mesodermal cell differentiation | 28 | 2 |
| GO:0050663//cytokine secretion | 28 | 2 |
| GO:1901983//regulation of protein acetylation | 28 | 2 |
| GO:0045981//positive regulation of nucleotide metabolic process | 70 | 4 |
| GO:1900544//positive regulation of purine nucleotide metabolic process | 70 | 4 |
| GO:0034504//protein localization to nucleus | 114 | 6 |
| GO:0006641//triglyceride metabolic process | 92 | 5 |
| GO:0051495//positive regulation of cytoskeleton organization | 92 | 5 |
| GO:0003158//endothelium development | 49 | 3 |
| GO:0032075//positive regulation of nuclease activity | 49 | 3 |
| GO:0015108//chloride transmembrane transporter activity | 71 | 4 |
| GO:0022898//regulation of transmembrane transporter activity | 71 | 4 |
| GO:0007015//actin filament organization | 93 | 5 |
| GO:0006575//cellular modified amino acid metabolic process | 183 | 9 |
| GO:0050867//positive regulation of cell activation | 275 | 13 |
| GO:0006352//DNA-dependent transcription, initiation | 138 | 7 |
| GO:0002762//negative regulation of myeloid leukocyte differentiation | 29 | 2 |
| GO:0003382//epithelial cell morphogenesis | 29 | 2 |
| GO:0006206//pyrimidine nucleobase metabolic process | 29 | 2 |
| GO:0006656//phosphatidylcholine biosynthetic process | 29 | 2 |
| GO:0006695//cholesterol biosynthetic process | 29 | 2 |
| GO:0007044//cell-substrate junction assembly | 29 | 2 |
| GO:0007052//mitotic spindle organization | 29 | 2 |
| GO:0022406//membrane docking | 29 | 2 |
| GO:0034644//cellular response to UV | 29 | 2 |
| GO:0046638//positive regulation of alpha-beta T cell differentiation | 29 | 2 |
| GO:0051209//release of sequestered calcium ion into cytosol | 29 | 2 |
| GO:0051283//negative regulation of sequestering of calcium ion | 29 | 2 |
| GO:0055013//cardiac muscle cell development | 29 | 2 |
| GO:1901264//carbohydrate derivative transport | 29 | 2 |

| | | |
|---|----|---|
| GO:1901989//positive regulation of cell cycle phase transition | 29 | 2 |
| GO:1901992//positive regulation of mitotic cell cycle phase transition | 29 | 2 |
| GO:0010970//microtubule-based transport | 50 | 3 |
| GO:0090317//negative regulation of intracellular protein transport | 50 | 3 |
| GO:0097479//synaptic vesicle localization | 50 | 3 |
| GO:2000117//negative regulation of cysteine-type endopeptidase activity | 50 | 3 |
| GO:0042451//purine nucleoside biosynthetic process | 72 | 4 |
| GO:0046129//purine ribonucleoside biosynthetic process | 72 | 4 |
| GO:0050768//negative regulation of neurogenesis | 72 | 4 |
| GO:0000738//DNA catabolic process, exonucleolytic | 10 | 1 |
| GO:0002251//organ or tissue specific immune response | 10 | 1 |
| GO:0003214//cardiac left ventricle morphogenesis | 10 | 1 |
| GO:0005451//monovalent cation:hydrogen antiporter activity | 10 | 1 |
| GO:0006000//fructose metabolic process | 10 | 1 |
| GO:0006465//signal peptide processing | 10 | 1 |
| GO:0006596//polyamine biosynthetic process | 10 | 1 |
| GO:0007063//regulation of sister chromatid cohesion | 10 | 1 |
| GO:0008631//intrinsic apoptotic signaling pathway in response to oxidative | 10 | 1 |
| GO:0009151//purine deoxyribonucleotide metabolic process | 10 | 1 |
| GO:0009185//ribonucleoside diphosphate metabolic process | 10 | 1 |
| GO:0009263//deoxyribonucleotide biosynthetic process | 10 | 1 |
| GO:0010693//negative regulation of alkaline phosphatase activity | 10 | 1 |
| GO:0010881//regulation of cardiac muscle contraction by regulation of the r | 10 | 1 |
| GO:0010935//regulation of macrophage cytokine production | 10 | 1 |
| GO:0015278//calcium-release channel activity | 10 | 1 |
| GO:0015802//basic amino acid transport | 10 | 1 |
| GO:0019067//viral assembly, maturation, egress, and release | 10 | 1 |
| GO:0021548//pons development | 10 | 1 |
| GO:0021781//glial cell fate commitment | 10 | 1 |
| GO:0021799//cerebral cortex radially oriented cell migration | 10 | 1 |
| GO:0021936//regulation of cerebellar granule cell precursor proliferation | 10 | 1 |
| GO:0030207//chondroitin sulfate catabolic process | 10 | 1 |
| GO:0032096//negative regulation of response to food | 10 | 1 |
| GO:0032099//negative regulation of appetite | 10 | 1 |
| GO:0032692//negative regulation of interleukin-1 production | 10 | 1 |
| GO:0033233//regulation of protein sumoylation | 10 | 1 |
| GO:0033327//Leydig cell differentiation | 10 | 1 |
| GO:0033604//negative regulation of catecholamine secretion | 10 | 1 |
| GO:0034374//low-density lipoprotein particle remodeling | 10 | 1 |
| GO:0034443//negative regulation of lipoprotein oxidation | 10 | 1 |
| GO:0035024//negative regulation of Rho protein signal transduction | 10 | 1 |
| GO:0035414//negative regulation of catenin import into nucleus | 10 | 1 |
| GO:0042347//negative regulation of NF-kappaB import into nucleus | 10 | 1 |
| GO:0043268//positive regulation of potassium ion transport | 10 | 1 |
| GO:0045683//negative regulation of epidermis development | 10 | 1 |
| GO:0046639//negative regulation of alpha-beta T cell differentiation | 10 | 1 |
| GO:0048268//clathrin coat assembly | 10 | 1 |
| GO:0048703//embryonic viscerocranium morphogenesis | 10 | 1 |
| GO:0051642//centrosome localization | 10 | 1 |
| GO:0051770//positive regulation of nitric-oxide synthase biosynthetic proce | 10 | 1 |
| GO:0051918//negative regulation of fibrinolysis | 10 | 1 |
| GO:0055062//phosphate ion homeostasis | 10 | 1 |
| GO:0060117//auditory receptor cell development | 10 | 1 |
| GO:0060292//long term synaptic depression | 10 | 1 |
| GO:0060712//spongiontrophoblast layer development | 10 | 1 |
| GO:0060732//positive regulation of inositol phosphate biosynthetic process | 10 | 1 |
| GO:0060788//ectodermal placode formation | 10 | 1 |
| GO:0070227//lymphocyte apoptotic process | 10 | 1 |

| | | |
|--|------|-----|
| GO:0070307//lens fiber cell development | 10 | 1 |
| GO:0071600//otic vesicle morphogenesis | 10 | 1 |
| GO:0071696//ectodermal placode development | 10 | 1 |
| GO:0071697//ectodermal placode morphogenesis | 10 | 1 |
| GO:0072148//epithelial cell fate commitment | 10 | 1 |
| GO:0072506//trivalent inorganic anion homeostasis | 10 | 1 |
| GO:0090192//regulation of glomerulus development | 10 | 1 |
| GO:0090399//replicative senescence | 10 | 1 |
| GO:1901881//positive regulation of protein depolymerization | 10 | 1 |
| GO:1902001//fatty acid transmembrane transport | 10 | 1 |
| GO:2000047//regulation of cell-cell adhesion mediated by cadherin | 10 | 1 |
| GO:2000501//regulation of natural killer cell chemotaxis | 10 | 1 |
| GO:0045666//positive regulation of neuron differentiation | 51 | 3 |
| GO:0051250//negative regulation of lymphocyte activation | 95 | 5 |
| GO:0001841//neural tube formation | 73 | 4 |
| GO:0055072//iron ion homeostasis | 73 | 4 |
| GO:0006383//transcription from RNA polymerase III promoter | 30 | 2 |
| GO:0030317//sperm motility | 30 | 2 |
| GO:0032881//regulation of polysaccharide metabolic process | 30 | 2 |
| GO:0043392//negative regulation of DNA binding | 30 | 2 |
| GO:0045620//negative regulation of lymphocyte differentiation | 30 | 2 |
| GO:0050691//regulation of defense response to virus by host | 30 | 2 |
| GO:0051282//regulation of sequestering of calcium ion | 30 | 2 |
| GO:0051970//negative regulation of transmission of nerve impulse | 30 | 2 |
| GO:0060603//mammary gland duct morphogenesis | 30 | 2 |
| GO:0061077//chaperone-mediated protein folding | 30 | 2 |
| GO:0070252//actin-mediated cell contraction | 30 | 2 |
| GO:2000379//positive regulation of reactive oxygen species metabolic process | 30 | 2 |
| GO:2000514//regulation of CD4-positive, alpha-beta T cell activation | 30 | 2 |
| GO:0022843//voltage-gated cation channel activity | 118 | 6 |
| GO:1901575//organic substance catabolic process | 1470 | 63 |
| GO:0005216//ion channel activity | 303 | 14 |
| GO:0022838//substrate-specific channel activity | 303 | 14 |
| GO:0005249//voltage-gated potassium channel activity | 74 | 4 |
| GO:0045471//response to ethanol | 74 | 4 |
| GO:0003143//embryonic heart tube morphogenesis | 52 | 3 |
| GO:0006027//glycosaminoglycan catabolic process | 52 | 3 |
| GO:0030010//establishment of cell polarity | 52 | 3 |
| GO:0030705//cytoskeleton-dependent intracellular transport | 52 | 3 |
| GO:0051291//protein heterooligomerization | 52 | 3 |
| GO:0044764//multi-organism cellular process | 398 | 18 |
| GO:0051252//regulation of RNA metabolic process | 2804 | 118 |
| GO:0051129//negative regulation of cellular component organization | 281 | 13 |
| GO:0030001//metal ion transport | 446 | 20 |
| GO:0003001//generation of a signal involved in cell-cell signaling | 97 | 5 |
| GO:0023061//signal release | 97 | 5 |
| GO:0030072//peptide hormone secretion | 31 | 2 |
| GO:0031663//lipopolysaccharide-mediated signaling pathway | 31 | 2 |
| GO:0043624//cellular protein complex disassembly | 31 | 2 |
| GO:0050931//pigment cell differentiation | 31 | 2 |
| GO:0051055//negative regulation of lipid biosynthetic process | 31 | 2 |
| GO:0055010//ventricular cardiac muscle tissue morphogenesis | 31 | 2 |
| GO:0060042//retina morphogenesis in camera-type eye | 31 | 2 |
| GO:0090066//regulation of anatomical structure size | 212 | 10 |
| GO:0051056//regulation of small GTPase mediated signal transduction | 376 | 17 |
| GO:1901607//alpha-amino acid biosynthetic process | 75 | 4 |
| GO:0061136//regulation of proteasomal protein catabolic process | 53 | 3 |
| GO:0000098//sulfur amino acid catabolic process | 11 | 1 |

| | | |
|---|-----|----|
| GO:0001833//inner cell mass cell proliferation | 11 | 1 |
| GO:0001946//lymphangiogenesis | 11 | 1 |
| GO:0002031//G-protein coupled receptor internalization | 11 | 1 |
| GO:0002532//production of molecular mediator involved in inflammatory res | 11 | 1 |
| GO:0003323//type B pancreatic cell development | 11 | 1 |
| GO:0006590//thyroid hormone generation | 11 | 1 |
| GO:0006895//Golgi to endosome transport | 11 | 1 |
| GO:0007213//G-protein coupled acetylcholine receptor signaling pathway | 11 | 1 |
| GO:0007350//blastoderm segmentation | 11 | 1 |
| GO:0007351//tripartite regional subdivision | 11 | 1 |
| GO:0008556//potassium-transporting ATPase activity | 11 | 1 |
| GO:0008595//anterior/posterior axis specification, embryo | 11 | 1 |
| GO:0010224//response to UV-B | 11 | 1 |
| GO:0010882//regulation of cardiac muscle contraction by calcium ion signal | 11 | 1 |
| GO:0010889//regulation of sequestering of triglyceride | 11 | 1 |
| GO:0014047//glutamate secretion | 11 | 1 |
| GO:0015114//phosphate ion transmembrane transporter activity | 11 | 1 |
| GO:0017187//peptidyl-glutamic acid carboxylation | 11 | 1 |
| GO:0018214//protein carboxylation | 11 | 1 |
| GO:0021520//spinal cord motor neuron cell fate specification | 11 | 1 |
| GO:0021756//striatum development | 11 | 1 |
| GO:0021884//forebrain neuron development | 11 | 1 |
| GO:0022010//central nervous system myelination | 11 | 1 |
| GO:0030214//hyaluronan catabolic process | 11 | 1 |
| GO:0031638//zymogen activation | 11 | 1 |
| GO:0032291//axon ensheathment in central nervous system | 11 | 1 |
| GO:0032922//circadian regulation of gene expression | 11 | 1 |
| GO:0033598//mammary gland epithelial cell proliferation | 11 | 1 |
| GO:0034310//primary alcohol catabolic process | 11 | 1 |
| GO:0035307//positive regulation of protein dephosphorylation | 11 | 1 |
| GO:0036092//phosphatidylinositol-3-phosphate biosynthetic process | 11 | 1 |
| GO:0036303//lymph vessel morphogenesis | 11 | 1 |
| GO:0042340//keratan sulfate catabolic process | 11 | 1 |
| GO:0042832//defense response to protozoan | 11 | 1 |
| GO:0042953//lipoprotein transport | 11 | 1 |
| GO:0043090//amino acid import | 11 | 1 |
| GO:0043568//positive regulation of insulin-like growth factor receptor signal | 11 | 1 |
| GO:0045815//positive regulation of gene expression, epigenetic | 11 | 1 |
| GO:0045843//negative regulation of striated muscle tissue development | 11 | 1 |
| GO:0046321//positive regulation of fatty acid oxidation | 11 | 1 |
| GO:0048934//peripheral nervous system neuron differentiation | 11 | 1 |
| GO:0048935//peripheral nervous system neuron development | 11 | 1 |
| GO:0051304//chromosome separation | 11 | 1 |
| GO:0051972//regulation of telomerase activity | 11 | 1 |
| GO:0060251//regulation of glial cell proliferation | 11 | 1 |
| GO:0060347//heart trabecula formation | 11 | 1 |
| GO:0060413//atrial septum morphogenesis | 11 | 1 |
| GO:0070293//renal absorption | 11 | 1 |
| GO:0071636//positive regulation of transforming growth factor beta producti | 11 | 1 |
| GO:0072164//mesonephric tubule development | 11 | 1 |
| GO:0090075//relaxation of muscle | 11 | 1 |
| GO:0097066//response to thyroid hormone stimulus | 11 | 1 |
| GO:1901862//negative regulation of muscle tissue development | 11 | 1 |
| GO:1901976//regulation of cell cycle checkpoint | 11 | 1 |
| GO:0033121//regulation of purine nucleotide catabolic process | 283 | 13 |
| GO:0046578//regulation of Ras protein signal transduction | 307 | 14 |
| GO:0030811//regulation of nucleotide catabolic process | 284 | 13 |
| GO:0016573//histone acetylation | 76 | 4 |

| | | |
|---|------|-----|
| GO:0043087//regulation of GTPase activity | 261 | 12 |
| GO:0035023//regulation of Rho protein signal transduction | 168 | 8 |
| GO:0003229//ventricular cardiac muscle tissue development | 32 | 2 |
| GO:0007205//protein kinase C-activating G-protein coupled receptor signaling | 32 | 2 |
| GO:0009948//anterior/posterior axis specification | 32 | 2 |
| GO:0035137//hindlimb morphogenesis | 32 | 2 |
| GO:0043241//protein complex disassembly | 32 | 2 |
| GO:0044070//regulation of anion transport | 54 | 3 |
| GO:0072524//pyridine-containing compound metabolic process | 54 | 3 |
| GO:1901616//organic hydroxy compound catabolic process | 54 | 3 |
| GO:0044238//primary metabolic process | 6263 | 259 |
| GO:0010639//negative regulation of organelle organization | 146 | 7 |
| GO:0043123//positive regulation of I-kappaB kinase/NF-kappaB cascade | 146 | 7 |
| GO:0019953//sexual reproduction | 524 | 23 |
| GO:0045637//regulation of myeloid cell differentiation | 123 | 6 |
| GO:0060021//palate development | 55 | 3 |
| GO:0070664//negative regulation of leukocyte proliferation | 55 | 3 |
| GO:0033124//regulation of GTP catabolic process | 264 | 12 |
| GO:1901136//carbohydrate derivative catabolic process | 478 | 21 |
| GO:0005272//sodium channel activity | 33 | 2 |
| GO:0046131//pyrimidine ribonucleoside metabolic process | 33 | 2 |
| GO:0060795//cell fate commitment involved in formation of primary germ layers | 33 | 2 |
| GO:0050864//regulation of B cell activation | 78 | 4 |
| GO:0071383//cellular response to steroid hormone stimulus | 78 | 4 |
| GO:0002710//negative regulation of T cell mediated immunity | 12 | 1 |
| GO:0006677//glycosylceramide metabolic process | 12 | 1 |
| GO:0006862//nucleotide transport | 12 | 1 |
| GO:0006978//DNA damage response, signal transduction by p53 class mediator | 12 | 1 |
| GO:0010560//positive regulation of glycoprotein biosynthetic process | 12 | 1 |
| GO:0010837//regulation of keratinocyte proliferation | 12 | 1 |
| GO:0010880//regulation of release of sequestered calcium ion into cytosol | 12 | 1 |
| GO:0010919//regulation of inositol phosphate biosynthetic process | 12 | 1 |
| GO:0014061//regulation of norepinephrine secretion | 12 | 1 |
| GO:0015370//solute:sodium symporter activity | 12 | 1 |
| GO:0015671//oxygen transport | 12 | 1 |
| GO:0015838//amino-acid betaine transport | 12 | 1 |
| GO:0015858//nucleoside transport | 12 | 1 |
| GO:0015879//carnitine transport | 12 | 1 |
| GO:0019373//epoxygenase P450 pathway | 12 | 1 |
| GO:0032225//regulation of synaptic transmission, dopaminergic | 12 | 1 |
| GO:0034695//response to prostaglandin E stimulus | 12 | 1 |
| GO:0035306//positive regulation of dephosphorylation | 12 | 1 |
| GO:0035815//positive regulation of renal sodium excretion | 12 | 1 |
| GO:0036342//post-anal tail morphogenesis | 12 | 1 |
| GO:0042219//cellular modified amino acid catabolic process | 12 | 1 |
| GO:0042510//regulation of tyrosine phosphorylation of Stat1 protein | 12 | 1 |
| GO:0042659//regulation of cell fate specification | 12 | 1 |
| GO:0043586//tongue development | 12 | 1 |
| GO:0043650//dicarboxylic acid biosynthetic process | 12 | 1 |
| GO:0045662//negative regulation of myoblast differentiation | 12 | 1 |
| GO:0045725//positive regulation of glycogen biosynthetic process | 12 | 1 |
| GO:0045955//negative regulation of calcium ion-dependent exocytosis | 12 | 1 |
| GO:0046339//diacylglycerol metabolic process | 12 | 1 |
| GO:0048246//macrophage chemotaxis | 12 | 1 |
| GO:0050435//beta-amyloid metabolic process | 12 | 1 |
| GO:0050651//dermatan sulfate proteoglycan biosynthetic process | 12 | 1 |
| GO:0050655//dermatan sulfate proteoglycan metabolic process | 12 | 1 |
| GO:0050930//induction of positive chemotaxis | 12 | 1 |

| | | |
|--|-----|----|
| GO:0051187//cofactor catabolic process | 12 | 1 |
| GO:0051261//protein depolymerization | 12 | 1 |
| GO:0060039//pericardium development | 12 | 1 |
| GO:0060065//uterus development | 12 | 1 |
| GO:0060122//inner ear receptor stereocilium organization | 12 | 1 |
| GO:0060766//negative regulation of androgen receptor signaling pathway | 12 | 1 |
| GO:0061046//regulation of branching involved in lung morphogenesis | 12 | 1 |
| GO:0061318//renal filtration cell differentiation | 12 | 1 |
| GO:0070672//response to interleukin-15 | 12 | 1 |
| GO:0071385//cellular response to glucocorticoid stimulus | 12 | 1 |
| GO:0072112//glomerular visceral epithelial cell differentiation | 12 | 1 |
| GO:0072163//mesonephric epithelium development | 12 | 1 |
| GO:0072498//embryonic skeletal joint development | 12 | 1 |
| GO:0086091//regulation of heart rate by cardiac conduction | 12 | 1 |
| GO:0090303//positive regulation of wound healing | 12 | 1 |
| GO:NM_0024 | 12 | 1 |
| GO:0002696//positive regulation of leukocyte activation | 265 | 12 |
| GO:0071705//nitrogen compound transport | 337 | 15 |
| GO:0007626//locomotory behavior | 125 | 6 |
| GO:0030819//positive regulation of cAMP biosynthetic process | 56 | 3 |
| GO:0032069//regulation of nuclease activity | 56 | 3 |
| GO:0033238//regulation of cellular amine metabolic process | 56 | 3 |
| GO:0045638//negative regulation of myeloid cell differentiation | 56 | 3 |
| GO:0032675//regulation of interleukin-6 production | 79 | 4 |
| GO:0050890//cognition | 149 | 7 |
| GO:0006644//phospholipid metabolic process | 267 | 12 |
| GO:0032006//regulation of TOR signaling cascade | 34 | 2 |
| GO:0048678//response to axon injury | 34 | 2 |
| GO:0050772//positive regulation of axonogenesis | 34 | 2 |
| GO:1900076//regulation of cellular response to insulin stimulus | 34 | 2 |
| GO:0016042//lipid catabolic process | 197 | 9 |
| GO:0009064//glutamine family amino acid metabolic process | 57 | 3 |
| GO:0050821//protein stabilization | 57 | 3 |
| GO:0071804//cellular potassium ion transport | 57 | 3 |
| GO:0071805//potassium ion transmembrane transport | 57 | 3 |
| GO:0017157//regulation of exocytosis | 80 | 4 |
| GO:0032409//regulation of transporter activity | 80 | 4 |
| GO:0046034//ATP metabolic process | 174 | 8 |
| GO:0010927//cellular component assembly involved in morphogenesis | 127 | 6 |
| GO:0000266//mitochondrial fission | 13 | 1 |
| GO:0002068//glandular epithelial cell development | 13 | 1 |
| GO:0003091//renal water homeostasis | 13 | 1 |
| GO:0003283//atrial septum development | 13 | 1 |
| GO:0003309//type B pancreatic cell differentiation | 13 | 1 |
| GO:0005217//intracellular ligand-gated ion channel activity | 13 | 1 |
| GO:0005980//glycogen catabolic process | 13 | 1 |
| GO:0006044//N-acetylglucosamine metabolic process | 13 | 1 |
| GO:0006278//RNA-dependent DNA replication | 13 | 1 |
| GO:0006927//transformed cell apoptotic process | 13 | 1 |
| GO:0007320//insemination | 13 | 1 |
| GO:0007342//fusion of sperm to egg plasma membrane | 13 | 1 |
| GO:0007413//axonal fasciculation | 13 | 1 |
| GO:0007512//adult heart development | 13 | 1 |
| GO:0010092//specification of organ identity | 13 | 1 |
| GO:0010954//positive regulation of protein processing | 13 | 1 |
| GO:0015101//organic cation transmembrane transporter activity | 13 | 1 |
| GO:0016254//preassembly of GPI anchor in ER membrane | 13 | 1 |
| GO:0019083//viral transcription | 13 | 1 |

| | | |
|---|-----|----|
| GO:0021984//adenohypophysis development | 13 | 1 |
| GO:0023019//signal transduction involved in regulation of gene expression | 13 | 1 |
| GO:0030224//monocyte differentiation | 13 | 1 |
| GO:0031620//regulation of fever generation | 13 | 1 |
| GO:0031622//positive regulation of fever generation | 13 | 1 |
| GO:0031665//negative regulation of lipopolysaccharide-mediated signaling | 13 | 1 |
| GO:0032413//negative regulation of ion transmembrane transporter activity | 13 | 1 |
| GO:0032438//melanosome organization | 13 | 1 |
| GO:0032469//endoplasmic reticulum calcium ion homeostasis | 13 | 1 |
| GO:0035456//response to interferon-beta | 13 | 1 |
| GO:0036149//phosphatidylinositol acyl-chain remodeling | 13 | 1 |
| GO:0042772//DNA damage response, signal transduction resulting in trans | 13 | 1 |
| GO:0043277//apoptotic cell clearance | 13 | 1 |
| GO:0043954//cellular component maintenance | 13 | 1 |
| GO:0045649//regulation of macrophage differentiation | 13 | 1 |
| GO:0045723//positive regulation of fatty acid biosynthetic process | 13 | 1 |
| GO:0045730//respiratory burst | 13 | 1 |
| GO:0046051//UTP metabolic process | 13 | 1 |
| GO:0048820//hair follicle maturation | 13 | 1 |
| GO:0051402//neuron apoptotic process | 13 | 1 |
| GO:0051923//sulfation | 13 | 1 |
| GO:0060045//positive regulation of cardiac muscle cell proliferation | 13 | 1 |
| GO:0070207//protein homotrimerization | 13 | 1 |
| GO:0070527//platelet aggregation | 13 | 1 |
| GO:0071285//cellular response to lithium ion | 13 | 1 |
| GO:0071384//cellular response to corticosteroid stimulus | 13 | 1 |
| GO:0072010//glomerular epithelium development | 13 | 1 |
| GO:0072234//metanephric nephron tubule development | 13 | 1 |
| GO:0072243//metanephric nephron epithelium development | 13 | 1 |
| GO:0072311//glomerular epithelial cell differentiation | 13 | 1 |
| GO:0090004//positive regulation of establishment of protein localization to p | 13 | 1 |
| GO:0090208//positive regulation of triglyceride metabolic process | 13 | 1 |
| GO:0090322//regulation of superoxide metabolic process | 13 | 1 |
| GO:1901099//negative regulation of signal transduction in absence of ligand | 13 | 1 |
| GO:2001240//negative regulation of extrinsic apoptotic signaling pathway in | 13 | 1 |
| GO:0006473//protein acetylation | 104 | 5 |
| GO:0006144//purine nucleobase metabolic process | 35 | 2 |
| GO:0006691//leukotriene metabolic process | 35 | 2 |
| GO:0008593//regulation of Notch signaling pathway | 35 | 2 |
| GO:0031645//negative regulation of neurological system process | 35 | 2 |
| GO:0043967//histone H4 acetylation | 35 | 2 |
| GO:2001236//regulation of extrinsic apoptotic signaling pathway | 35 | 2 |
| GO:0007368//determination of left/right symmetry | 81 | 4 |
| GO:0050777//negative regulation of immune response | 58 | 3 |
| GO:0071478//cellular response to radiation | 58 | 3 |
| GO:0010564//regulation of cell cycle process | 391 | 17 |
| GO:0015672//monovalent inorganic cation transport | 272 | 12 |
| GO:0070507//regulation of microtubule cytoskeleton organization | 82 | 4 |
| GO:0002449//lymphocyte mediated immunity | 153 | 7 |
| GO:0050778//positive regulation of immune response | 441 | 19 |
| GO:0008344//adult locomotory behavior | 59 | 3 |
| GO:0009112//nucleobase metabolic process | 59 | 3 |
| GO:0030816//positive regulation of cAMP metabolic process | 59 | 3 |
| GO:0007041//lysosomal transport | 36 | 2 |
| GO:0021766//hippocampus development | 36 | 2 |
| GO:0032092//positive regulation of protein binding | 36 | 2 |
| GO:0033143//regulation of intracellular steroid hormone receptor signaling p | 36 | 2 |
| GO:0060402//calcium ion transport into cytosol | 36 | 2 |

| | | |
|---|-----|----|
| GO:0097306//cellular response to alcohol | 36 | 2 |
| GO:2001022//positive regulation of response to DNA damage stimulus | 36 | 2 |
| GO:0030522//intracellular receptor signaling pathway | 130 | 6 |
| GO:0002460//adaptive immune response based on somatic recombination | 154 | 7 |
| GO:0002446//neutrophil mediated immunity | 14 | 1 |
| GO:0006067//ethanol metabolic process | 14 | 1 |
| GO:0006662//glycerol ether metabolic process | 14 | 1 |
| GO:0008272//sulfate transport | 14 | 1 |
| GO:0009070//serine family amino acid biosynthetic process | 14 | 1 |
| GO:0009251//glucan catabolic process | 14 | 1 |
| GO:0010692//regulation of alkaline phosphatase activity | 14 | 1 |
| GO:0010800//positive regulation of peptidyl-threonine phosphorylation | 14 | 1 |
| GO:0014912//negative regulation of smooth muscle cell migration | 14 | 1 |
| GO:0015175//neutral amino acid transmembrane transporter activity | 14 | 1 |
| GO:0015697//quaternary ammonium group transport | 14 | 1 |
| GO:0016572//histone phosphorylation | 14 | 1 |
| GO:0021544//subpallium development | 14 | 1 |
| GO:0030866//cortical actin cytoskeleton organization | 14 | 1 |
| GO:0031112//positive regulation of microtubule polymerization or depolymerization | 14 | 1 |
| GO:0031652//positive regulation of heat generation | 14 | 1 |
| GO:0032095//regulation of response to food | 14 | 1 |
| GO:0032401//establishment of melanosome localization | 14 | 1 |
| GO:0032781//positive regulation of ATPase activity | 14 | 1 |
| GO:0035249//synaptic transmission, glutamatergic | 14 | 1 |
| GO:0035304//regulation of protein dephosphorylation | 14 | 1 |
| GO:0042089//cytokine biosynthetic process | 14 | 1 |
| GO:0042136//neurotransmitter biosynthetic process | 14 | 1 |
| GO:0042403//thyroid hormone metabolic process | 14 | 1 |
| GO:0044247//cellular polysaccharide catabolic process | 14 | 1 |
| GO:0045824//negative regulation of innate immune response | 14 | 1 |
| GO:0048753//pigment granule organization | 14 | 1 |
| GO:0051798//positive regulation of hair follicle development | 14 | 1 |
| GO:0051956//negative regulation of amino acid transport | 14 | 1 |
| GO:0060317//cardiac epithelial to mesenchymal transition | 14 | 1 |
| GO:0060972//left/right pattern formation | 14 | 1 |
| GO:0070076//histone lysine demethylation | 14 | 1 |
| GO:0070232//regulation of T cell apoptotic process | 14 | 1 |
| GO:0072170//metanephric tubule development | 14 | 1 |
| GO:0090026//positive regulation of monocyte chemotaxis | 14 | 1 |
| GO:0090181//regulation of cholesterol metabolic process | 14 | 1 |
| GO:2000178//negative regulation of neural precursor cell proliferation | 14 | 1 |
| GO:NM_0005 | 14 | 1 |
| GO:0043244//regulation of protein complex disassembly | 60 | 3 |
| GO:0002377//immunoglobulin production | 37 | 2 |
| GO:0007193//adenylate cyclase-inhibiting G-protein coupled receptor signaling pathway | 37 | 2 |
| GO:0042733//embryonic digit morphogenesis | 37 | 2 |
| GO:0045071//negative regulation of viral genome replication | 37 | 2 |
| GO:0048066//developmental pigmentation | 37 | 2 |
| GO:0050885//neuromuscular process controlling balance | 37 | 2 |
| GO:0060401//cytosolic calcium ion transport | 37 | 2 |
| GO:0071482//cellular response to light stimulus | 37 | 2 |
| GO:0072522//purine-containing compound biosynthetic process | 108 | 5 |
| GO:0007631//feeding behavior | 61 | 3 |
| GO:0030218//erythrocyte differentiation | 61 | 3 |
| GO:0006486//protein glycosylation | 229 | 10 |
| GO:0043413//macromolecule glycosylation | 229 | 10 |
| GO:0016032//viral process | 423 | 18 |
| GO:0019637//organophosphate metabolic process | 934 | 39 |

| | | |
|---|-----|---|
| GO:0006816//calcium ion transport | 157 | 7 |
| GO:0008652//cellular amino acid biosynthetic process | 109 | 5 |
| GO:0007257//activation of JUN kinase activity | 38 | 2 |
| GO:0030521//androgen receptor signaling pathway | 38 | 2 |
| GO:0038032//termination of G-protein coupled receptor signaling pathway | 38 | 2 |
| GO:0001711//endodermal cell fate commitment | 15 | 1 |
| GO:0001832//blastocyst growth | 15 | 1 |
| GO:0001976//neurological system process involved in regulation of systemi | 15 | 1 |
| GO:0002029//desensitization of G-protein coupled receptor protein signaling | 15 | 1 |
| GO:0002052//positive regulation of neuroblast proliferation | 15 | 1 |
| GO:0002230//positive regulation of defense response to virus by host | 15 | 1 |
| GO:0002707//negative regulation of lymphocyte mediated immunity | 15 | 1 |
| GO:0006825//copper ion transport | 15 | 1 |
| GO:0007026//negative regulation of microtubule depolymerization | 15 | 1 |
| GO:0007045//cell-substrate adherens junction assembly | 15 | 1 |
| GO:0008105//asymmetric protein localization | 15 | 1 |
| GO:0009713//catechol-containing compound biosynthetic process | 15 | 1 |
| GO:0015813//L-glutamate transport | 15 | 1 |
| GO:0015949//nucleobase-containing small molecule interconversion | 15 | 1 |
| GO:0019321//pentose metabolic process | 15 | 1 |
| GO:0022401//negative adaptation of signaling pathway | 15 | 1 |
| GO:0030316//osteoclast differentiation | 15 | 1 |
| GO:0031103//axon regeneration | 15 | 1 |
| GO:0031113//regulation of microtubule polymerization | 15 | 1 |
| GO:0033146//regulation of intracellular estrogen receptor signaling pathway | 15 | 1 |
| GO:0033574//response to testosterone stimulus | 15 | 1 |
| GO:0035066//positive regulation of histone acetylation | 15 | 1 |
| GO:0042119//neutrophil activation | 15 | 1 |
| GO:0042423//catecholamine biosynthetic process | 15 | 1 |
| GO:0045214//sarcomere organization | 15 | 1 |
| GO:0045648//positive regulation of erythrocyte differentiation | 15 | 1 |
| GO:0046329//negative regulation of JNK cascade | 15 | 1 |
| GO:0046939//nucleotide phosphorylation | 15 | 1 |
| GO:0048041//focal adhesion assembly | 15 | 1 |
| GO:0048251//elastic fiber assembly | 15 | 1 |
| GO:0048339//paraxial mesoderm development | 15 | 1 |
| GO:0048384//retinoic acid receptor signaling pathway | 15 | 1 |
| GO:0051647//nucleus localization | 15 | 1 |
| GO:0051905//establishment of pigment granule localization | 15 | 1 |
| GO:0051930//regulation of sensory perception of pain | 15 | 1 |
| GO:0051931//regulation of sensory perception | 15 | 1 |
| GO:0060004//reflex | 15 | 1 |
| GO:0070875//positive regulation of glycogen metabolic process | 15 | 1 |
| GO:0072207//metanephric epithelium development | 15 | 1 |
| GO:1901985//positive regulation of protein acetylation | 15 | 1 |
| GO:2000008//regulation of protein localization to cell surface | 15 | 1 |
| GO:2000249//regulation of actin cytoskeleton reorganization | 15 | 1 |
| GO:2000758//positive regulation of peptidyl-lysine acetylation | 15 | 1 |
| GO:0030804//positive regulation of cyclic nucleotide biosynthetic process | 62 | 3 |
| GO:0007163//establishment or maintenance of cell polarity | 86 | 4 |
| GO:0042455//ribonucleoside biosynthetic process | 86 | 4 |
| GO:0043393//regulation of protein binding | 86 | 4 |
| GO:0002521//leukocyte differentiation | 208 | 9 |
| GO:0006606//protein import into nucleus | 87 | 4 |
| GO:0009411//response to UV | 87 | 4 |
| GO:0015698//inorganic anion transport | 87 | 4 |
| GO:0044744//protein targeting to nucleus | 87 | 4 |
| GO:2001233//regulation of apoptotic signaling pathway | 87 | 4 |

| | | |
|--|------|----|
| GO:0001755//neural crest cell migration | 39 | 2 |
| GO:0051017//actin filament bundle assembly | 39 | 2 |
| GO:0061572//actin filament bundle organization | 39 | 2 |
| GO:0070936//protein K48-linked ubiquitination | 39 | 2 |
| GO:0022037//metencephalon development | 63 | 3 |
| GO:0051100//negative regulation of binding | 63 | 3 |
| GO:0070085//glycosylation | 233 | 10 |
| GO:0003674//molecular_function | 1016 | 42 |
| GO:0022900//electron transport chain | 112 | 5 |
| GO:0007265//Ras protein signal transduction | 88 | 4 |
| GO:0000272//polysaccharide catabolic process | 16 | 1 |
| GO:0001836//release of cytochrome c from mitochondria | 16 | 1 |
| GO:0002483//antigen processing and presentation of endogenous peptide a | 16 | 1 |
| GO:0006415//translational termination | 16 | 1 |
| GO:0007620//copulation | 16 | 1 |
| GO:0009312//oligosaccharide biosynthetic process | 16 | 1 |
| GO:0010823//negative regulation of mitochondrion organization | 16 | 1 |
| GO:0015669//gas transport | 16 | 1 |
| GO:0016577//histone demethylation | 16 | 1 |
| GO:0019885//antigen processing and presentation of endogenous peptide a | 16 | 1 |
| GO:0023058//adaptation of signaling pathway | 16 | 1 |
| GO:0030865//cortical cytoskeleton organization | 16 | 1 |
| GO:0032098//regulation of appetite | 16 | 1 |
| GO:0034199//activation of protein kinase A activity | 16 | 1 |
| GO:0034375//high-density lipoprotein particle remodeling | 16 | 1 |
| GO:0035883//enteroendocrine cell differentiation | 16 | 1 |
| GO:0035987//endodermal cell differentiation | 16 | 1 |
| GO:0042572//retinol metabolic process | 16 | 1 |
| GO:0044058//regulation of digestive system process | 16 | 1 |
| GO:0045026//plasma membrane fusion | 16 | 1 |
| GO:0045907//positive regulation of vasoconstriction | 16 | 1 |
| GO:0051491//positive regulation of filopodium assembly | 16 | 1 |
| GO:0051881//regulation of mitochondrial membrane potential | 16 | 1 |
| GO:0051962//positive regulation of nervous system development | 16 | 1 |
| GO:0051965//positive regulation of synapse assembly | 16 | 1 |
| GO:0060314//regulation of ryanodine-sensitive calcium-release channel act | 16 | 1 |
| GO:0060395//SMAD protein signal transduction | 16 | 1 |
| GO:0070229//negative regulation of lymphocyte apoptotic process | 16 | 1 |
| GO:0070371//ERK1 and ERK2 cascade | 16 | 1 |
| GO:0072132//mesenchyme morphogenesis | 16 | 1 |
| GO:0090025//regulation of monocyte chemotaxis | 16 | 1 |
| GO:0090342//regulation of cell aging | 16 | 1 |
| GO:2001239//regulation of extrinsic apoptotic signaling pathway in absence | 16 | 1 |
| GO:0031345//negative regulation of cell projection organization | 64 | 3 |
| GO:0045639//positive regulation of myeloid cell differentiation | 64 | 3 |
| GO:0001558//regulation of cell growth | 235 | 10 |
| GO:0046637//regulation of alpha-beta T cell differentiation | 40 | 2 |
| GO:0006520//cellular amino acid metabolic process | 407 | 17 |
| GO:0051170//nuclear import | 89 | 4 |
| GO:2000045//regulation of G1/S transition of mitotic cell cycle | 89 | 4 |
| GO:0007254//JNK cascade | 65 | 3 |
| GO:0045582//positive regulation of T cell differentiation | 65 | 3 |
| GO:0006200//ATP catabolic process | 139 | 6 |
| GO:0018393//internal peptidyl-lysine acetylation | 90 | 4 |
| GO:0031647//regulation of protein stability | 90 | 4 |
| GO:0000186//activation of MAPKK activity | 41 | 2 |
| GO:0007034//vacuolar transport | 41 | 2 |
| GO:0007416//synapse assembly | 41 | 2 |

| | | |
|--|-----|----|
| GO:0023021//termination of signal transduction | 41 | 2 |
| GO:0034134//toll-like receptor 2 signaling pathway | 41 | 2 |
| GO:0002250//adaptive immune response | 164 | 7 |
| GO:0006917//induction of apoptosis | 164 | 7 |
| GO:0000718//nucleotide-excision repair, DNA damage removal | 17 | 1 |
| GO:0001782//B cell homeostasis | 17 | 1 |
| GO:0001945//lymph vessel development | 17 | 1 |
| GO:0002704//negative regulation of leukocyte mediated immunity | 17 | 1 |
| GO:0002823//negative regulation of adaptive immune response based on s | 17 | 1 |
| GO:0004889//acetylcholine-activated cation-selective channel activity | 17 | 1 |
| GO:0006595//polyamine metabolic process | 17 | 1 |
| GO:0007271//synaptic transmission, cholinergic | 17 | 1 |
| GO:0007616//long-term memory | 17 | 1 |
| GO:0009208//pyrimidine ribonucleoside triphosphate metabolic process | 17 | 1 |
| GO:0010824//regulation of centrosome duplication | 17 | 1 |
| GO:0014065//phosphatidylinositol 3-kinase cascade | 17 | 1 |
| GO:0015269//calcium-activated potassium channel activity | 17 | 1 |
| GO:0015299//solute:hydrogen antiporter activity | 17 | 1 |
| GO:0015800//acidic amino acid transport | 17 | 1 |
| GO:0031000//response to caffeine | 17 | 1 |
| GO:0031114//regulation of microtubule depolymerization | 17 | 1 |
| GO:0032105//negative regulation of response to extracellular stimulus | 17 | 1 |
| GO:0032108//negative regulation of response to nutrient levels | 17 | 1 |
| GO:0032365//intracellular lipid transport | 17 | 1 |
| GO:0032400//melanosome localization | 17 | 1 |
| GO:0043001//Golgi to plasma membrane protein transport | 17 | 1 |
| GO:0043206//extracellular fibril organization | 17 | 1 |
| GO:0043500//muscle adaptation | 17 | 1 |
| GO:0043537//negative regulation of blood vessel endothelial cell migration | 17 | 1 |
| GO:0044089//positive regulation of cellular component biogenesis | 17 | 1 |
| GO:0044349//DNA excision | 17 | 1 |
| GO:0045080//positive regulation of chemokine biosynthetic process | 17 | 1 |
| GO:0045930//negative regulation of mitotic cell cycle | 17 | 1 |
| GO:0050891//multicellular organismal water homeostasis | 17 | 1 |
| GO:0051205//protein insertion into membrane | 17 | 1 |
| GO:0051797//regulation of hair follicle development | 17 | 1 |
| GO:0060334//regulation of interferon-gamma-mediated signaling pathway | 17 | 1 |
| GO:0061384//heart trabecula morphogenesis | 17 | 1 |
| GO:0070536//protein K63-linked deubiquitination | 17 | 1 |
| GO:0070997//neuron death | 17 | 1 |
| GO:0071675//regulation of mononuclear cell migration | 17 | 1 |
| GO:0097435//fibril organization | 17 | 1 |
| GO:1900449//regulation of glutamate receptor signaling pathway | 17 | 1 |
| GO:1901655//cellular response to ketone | 17 | 1 |
| GO:2000406//positive regulation of T cell migration | 17 | 1 |
| GO:0012502//induction of programmed cell death | 165 | 7 |
| GO:0018394//peptidyl-lysine acetylation | 91 | 4 |
| GO:0007264//small GTPase mediated signal transduction | 264 | 11 |
| GO:0051259//protein oligomerization | 289 | 12 |
| GO:0000096//sulfur amino acid metabolic process | 42 | 2 |
| GO:0006220//pyrimidine nucleotide metabolic process | 42 | 2 |
| GO:0015293//symporter activity | 42 | 2 |
| GO:0015294//solute:cation symporter activity | 42 | 2 |
| GO:0035264//multicellular organism growth | 42 | 2 |
| GO:0045670//regulation of osteoclast differentiation | 42 | 2 |
| GO:0030801//positive regulation of cyclic nucleotide metabolic process | 67 | 3 |
| GO:1902275//regulation of chromatin organization | 67 | 3 |
| GO:0010212//response to ionizing radiation | 92 | 4 |

| | | |
|---|-----|----|
| GO:0045927//positive regulation of growth | 117 | 5 |
| GO:0043603//cellular amide metabolic process | 142 | 6 |
| GO:0016044//cellular membrane organization | 365 | 15 |
| GO:0003071//renal system process involved in regulation of systemic arteri | 18 | 1 |
| GO:0006482//protein demethylation | 18 | 1 |
| GO:0006611//protein export from nucleus | 18 | 1 |
| GO:0008089//anterograde axon cargo transport | 18 | 1 |
| GO:0008214//protein dealkylation | 18 | 1 |
| GO:0009074//aromatic amino acid family catabolic process | 18 | 1 |
| GO:0009303//rRNA transcription | 18 | 1 |
| GO:0014821//phasic smooth muscle contraction | 18 | 1 |
| GO:0016024//CDP-diacylglycerol biosynthetic process | 18 | 1 |
| GO:0019883//antigen processing and presentation of endogenous antigen | 18 | 1 |
| GO:0021696//cerebellar cortex morphogenesis | 18 | 1 |
| GO:0030194//positive regulation of blood coagulation | 18 | 1 |
| GO:0032007//negative regulation of TOR signaling cascade | 18 | 1 |
| GO:0042401//cellular biogenic amine biosynthetic process | 18 | 1 |
| GO:0042596//fear response | 18 | 1 |
| GO:0043491//protein kinase B signaling cascade | 18 | 1 |
| GO:0043516//regulation of DNA damage response, signal transduction by p | 18 | 1 |
| GO:0046325//negative regulation of glucose import | 18 | 1 |
| GO:0046636//negative regulation of alpha-beta T cell activation | 18 | 1 |
| GO:0048484//enteric nervous system development | 18 | 1 |
| GO:0050927//positive regulation of positive chemotaxis | 18 | 1 |
| GO:0051085//chaperone mediated protein folding requiring cofactor | 18 | 1 |
| GO:0051875//pigment granule localization | 18 | 1 |
| GO:0052652//cyclic purine nucleotide metabolic process | 18 | 1 |
| GO:0055012//ventricular cardiac muscle cell differentiation | 18 | 1 |
| GO:0060330//regulation of response to interferon-gamma | 18 | 1 |
| GO:0085029//extracellular matrix assembly | 18 | 1 |
| GO:0090003//regulation of establishment of protein localization to plasma m | 18 | 1 |
| GO:1900048//positive regulation of hemostasis | 18 | 1 |
| GO:1901796//regulation of signal transduction by p53 class mediator | 18 | 1 |
| GO:1902305//regulation of sodium ion transmembrane transport | 18 | 1 |
| GO:2000649//regulation of sodium ion transmembrane transporter activity | 18 | 1 |
| GO:0006885//regulation of pH | 43 | 2 |
| GO:0007159//leukocyte cell-cell adhesion | 43 | 2 |
| GO:0030048//actin filament-based movement | 43 | 2 |
| GO:0034162//toll-like receptor 9 signaling pathway | 43 | 2 |
| GO:0009163//nucleoside biosynthetic process | 93 | 4 |
| GO:0006470//protein dephosphorylation | 144 | 6 |
| GO:1901565//organonitrogen compound catabolic process | 616 | 25 |
| GO:0006475//internal protein amino acid acetylation | 94 | 4 |
| GO:0033044//regulation of chromosome organization | 94 | 4 |
| GO:0035335//peptidyl-tyrosine dephosphorylation | 94 | 4 |
| GO:0055076//transition metal ion homeostasis | 94 | 4 |
| GO:1901659//glycosyl compound biosynthetic process | 94 | 4 |
| GO:0003824//catalytic activity | 294 | 12 |
| GO:0006941//striated muscle contraction | 44 | 2 |
| GO:0032012//regulation of ARF protein signal transduction | 44 | 2 |
| GO:0046635//positive regulation of alpha-beta T cell activation | 44 | 2 |
| GO:0060443//mammary gland morphogenesis | 44 | 2 |
| GO:0030098//lymphocyte differentiation | 145 | 6 |
| GO:0043543//protein acylation | 120 | 5 |
| GO:0061024//membrane organization | 370 | 15 |
| GO:0030217//T cell differentiation | 95 | 4 |
| GO:0000188//inactivation of MAPK activity | 19 | 1 |
| GO:0006906//vesicle fusion | 19 | 1 |

| | | |
|--|-----|----|
| GO:0007405//neuroblast proliferation | 19 | 1 |
| GO:0009309//amine biosynthetic process | 19 | 1 |
| GO:0015491//cation:cation antiporter activity | 19 | 1 |
| GO:0019080//viral genome expression | 19 | 1 |
| GO:0033081//regulation of T cell differentiation in thymus | 19 | 1 |
| GO:0035162//embryonic hemopoiesis | 19 | 1 |
| GO:0036230//granulocyte activation | 19 | 1 |
| GO:0043462//regulation of ATPase activity | 19 | 1 |
| GO:0043567//regulation of insulin-like growth factor receptor signaling path | 19 | 1 |
| GO:0045577//regulation of B cell differentiation | 19 | 1 |
| GO:0046341//CDP-diacylglycerol metabolic process | 19 | 1 |
| GO:0046627//negative regulation of insulin receptor signaling pathway | 19 | 1 |
| GO:0048665//neuron fate specification | 19 | 1 |
| GO:0050926//regulation of positive chemotaxis | 19 | 1 |
| GO:0051023//regulation of immunoglobulin secretion | 19 | 1 |
| GO:0060397//JAK-STAT cascade involved in growth hormone signaling pat | 19 | 1 |
| GO:0060765//regulation of androgen receptor signaling pathway | 19 | 1 |
| GO:0072337//modified amino acid transport | 19 | 1 |
| GO:0072378//blood coagulation, fibrin clot formation | 19 | 1 |
| GO:0090200//positive regulation of release of cytochrome c from mitochonc | 19 | 1 |
| GO:0030307//positive regulation of cell growth | 70 | 3 |
| GO:0046164//alcohol catabolic process | 45 | 2 |
| GO:0046889//positive regulation of lipid biosynthetic process | 45 | 2 |
| GO:0050994//regulation of lipid catabolic process | 45 | 2 |
| GO:0070301//cellular response to hydrogen peroxide | 45 | 2 |
| GO:0044403//symbiosis, encompassing mutualism through parasitism | 447 | 18 |
| GO:0044419//interspecies interaction between organisms | 447 | 18 |
| GO:0050868//negative regulation of T cell activation | 71 | 3 |
| GO:0030534//adult behavior | 97 | 4 |
| GO:0032886//regulation of microtubule-based process | 97 | 4 |
| GO:0007243//intracellular protein kinase cascade | 274 | 11 |
| GO:0001947//heart looping | 46 | 2 |
| GO:0032984//macromolecular complex disassembly | 46 | 2 |
| GO:0048524//positive regulation of viral process | 46 | 2 |
| GO:0051781//positive regulation of cell division | 46 | 2 |
| GO:0070661//leukocyte proliferation | 46 | 2 |
| GO:0000726//non-recombinational repair | 20 | 1 |
| GO:0002825//regulation of T-helper 1 type immune response | 20 | 1 |
| GO:0003209//cardiac atrium morphogenesis | 20 | 1 |
| GO:0006501//C-terminal protein lipidation | 20 | 1 |
| GO:0006904//vesicle docking involved in exocytosis | 20 | 1 |
| GO:0007098//centrosome cycle | 20 | 1 |
| GO:0007530//sex determination | 20 | 1 |
| GO:0008227//G-protein coupled amine receptor activity | 20 | 1 |
| GO:0009067//aspartate family amino acid biosynthetic process | 20 | 1 |
| GO:0009127//purine nucleoside monophosphate biosynthetic process | 20 | 1 |
| GO:0009168//purine ribonucleoside monophosphate biosynthetic process | 20 | 1 |
| GO:0009395//phospholipid catabolic process | 20 | 1 |
| GO:0015296//anion:cation symporter activity | 20 | 1 |
| GO:0018200//peptidyl-glutamic acid modification | 20 | 1 |
| GO:0030032//lamellipodium assembly | 20 | 1 |
| GO:0031111//negative regulation of microtubule polymerization or depolyme | 20 | 1 |
| GO:0031664//regulation of lipopolysaccharide-mediated signaling pathway | 20 | 1 |
| GO:0034446//substrate adhesion-dependent cell spreading | 20 | 1 |
| GO:0042634//regulation of hair cycle | 20 | 1 |
| GO:0043299//leukocyte degranulation | 20 | 1 |
| GO:0043691//reverse cholesterol transport | 20 | 1 |
| GO:0046839//phospholipid dephosphorylation | 20 | 1 |

| | | |
|--|------|-----|
| GO:0048536//spleen development | 20 | 1 |
| GO:0050820//positive regulation of coagulation | 20 | 1 |
| GO:0051044//positive regulation of membrane protein ectodomain proteolysis | 20 | 1 |
| GO:0060444//branching involved in mammary gland duct morphogenesis | 20 | 1 |
| GO:0002700//regulation of production of molecular mediator of immune response | 72 | 3 |
| GO:0097193//intrinsic apoptotic signaling pathway | 98 | 4 |
| GO:0090407//organophosphate biosynthetic process | 376 | 15 |
| GO:0070838//divalent metal ion transport | 175 | 7 |
| GO:0000041//transition metal ion transport | 73 | 3 |
| GO:0038093//Fc receptor signaling pathway | 73 | 3 |
| GO:0043473//pigmentation | 73 | 3 |
| GO:0007492//endoderm development | 47 | 2 |
| GO:0046620//regulation of organ growth | 47 | 2 |
| GO:0050830//defense response to Gram-positive bacterium | 47 | 2 |
| GO:0060491//regulation of cell projection assembly | 47 | 2 |
| GO:0044267//cellular protein metabolic process | 2591 | 104 |
| GO:1901990//regulation of mitotic cell cycle phase transition | 151 | 6 |
| GO:0002676//regulation of chronic inflammatory response | 21 | 1 |
| GO:0006071//glycerol metabolic process | 21 | 1 |
| GO:0006893//Golgi to plasma membrane transport | 21 | 1 |
| GO:0006998//nuclear envelope organization | 21 | 1 |
| GO:0008038//neuron recognition | 21 | 1 |
| GO:0009190//cyclic nucleotide biosynthetic process | 21 | 1 |
| GO:0010799//regulation of peptidyl-threonine phosphorylation | 21 | 1 |
| GO:0010829//negative regulation of glucose transport | 21 | 1 |
| GO:0021846//cell proliferation in forebrain | 21 | 1 |
| GO:0032757//positive regulation of interleukin-8 production | 21 | 1 |
| GO:0032891//negative regulation of organic acid transport | 21 | 1 |
| GO:0034377//plasma lipoprotein particle assembly | 21 | 1 |
| GO:0042551//neuron maturation | 21 | 1 |
| GO:0043243//positive regulation of protein complex disassembly | 21 | 1 |
| GO:0043330//response to exogenous dsRNA | 21 | 1 |
| GO:0046605//regulation of centrosome cycle | 21 | 1 |
| GO:0060048//cardiac muscle contraction | 21 | 1 |
| GO:0090398//cellular senescence | 21 | 1 |
| GO:1900077//negative regulation of cellular response to insulin stimulus | 21 | 1 |
| GO:1901657//glycosyl compound metabolic process | 505 | 20 |
| GO:0051302//regulation of cell division | 74 | 3 |
| GO:0072329//monocarboxylic acid catabolic process | 74 | 3 |
| GO:0050810//regulation of steroid biosynthetic process | 48 | 2 |
| GO:0061371//determination of heart left/right asymmetry | 48 | 2 |
| GO:0072511//divalent inorganic cation transport | 178 | 7 |
| GO:0043170//macromolecule metabolic process | 4724 | 190 |
| GO:0006814//sodium ion transport | 101 | 4 |
| GO:0031349//positive regulation of defense response | 204 | 8 |
| GO:0044237//cellular metabolic process | 6082 | 245 |
| GO:1901361//organic cyclic compound catabolic process | 635 | 25 |
| GO:0002718//regulation of cytokine production involved in immune response | 49 | 2 |
| GO:0007589//body fluid secretion | 49 | 2 |
| GO:0017148//negative regulation of translation | 49 | 2 |
| GO:0019362//pyridine nucleotide metabolic process | 49 | 2 |
| GO:0043401//steroid hormone mediated signaling pathway | 49 | 2 |
| GO:0046496//nicotinamide nucleotide metabolic process | 49 | 2 |
| GO:0048489//synaptic vesicle transport | 49 | 2 |
| GO:0097480//establishment of synaptic vesicle localization | 49 | 2 |
| GO:0002011//morphogenesis of an epithelial sheet | 22 | 1 |
| GO:0002863//positive regulation of inflammatory response to antigenic stimulus | 22 | 1 |
| GO:0003230//cardiac atrium development | 22 | 1 |

| | | |
|---|-----|----|
| GO:0005227//calcium activated cation channel activity | 22 | 1 |
| GO:0006509//membrane protein ectodomain proteolysis | 22 | 1 |
| GO:0007398//ectoderm development | 22 | 1 |
| GO:0009225//nucleotide-sugar metabolic process | 22 | 1 |
| GO:0010043//response to zinc ion | 22 | 1 |
| GO:0018904//ether metabolic process | 22 | 1 |
| GO:0019400//alditol metabolic process | 22 | 1 |
| GO:0021522//spinal cord motor neuron differentiation | 22 | 1 |
| GO:0021772//olfactory bulb development | 22 | 1 |
| GO:0030261//chromosome condensation | 22 | 1 |
| GO:0030262//apoptotic nuclear changes | 22 | 1 |
| GO:0032369//negative regulation of lipid transport | 22 | 1 |
| GO:0040020//regulation of meiosis | 22 | 1 |
| GO:0042133//neurotransmitter metabolic process | 22 | 1 |
| GO:0042992//negative regulation of transcription factor import into nucleus | 22 | 1 |
| GO:0043030//regulation of macrophage activation | 22 | 1 |
| GO:0044275//cellular carbohydrate catabolic process | 22 | 1 |
| GO:0045124//regulation of bone resorption | 22 | 1 |
| GO:0045132//meiotic chromosome segregation | 22 | 1 |
| GO:0045581//negative regulation of T cell differentiation | 22 | 1 |
| GO:0046173//polyol biosynthetic process | 22 | 1 |
| GO:0048278//vesicle docking | 22 | 1 |
| GO:0051181//cofactor transport | 22 | 1 |
| GO:0051489//regulation of filopodium assembly | 22 | 1 |
| GO:0060396//growth hormone receptor signaling pathway | 22 | 1 |
| GO:0065005//protein-lipid complex assembly | 22 | 1 |
| GO:0072525//pyridine-containing compound biosynthetic process | 22 | 1 |
| GO:0002703//regulation of leukocyte mediated immunity | 128 | 5 |
| GO:0002822//regulation of adaptive immune response based on somatic re | 102 | 4 |
| GO:0015085//calcium ion transmembrane transporter activity | 102 | 4 |
| GO:0042035//regulation of cytokine biosynthetic process | 102 | 4 |
| GO:0045621//positive regulation of lymphocyte differentiation | 76 | 3 |
| GO:0051648//vesicle localization | 103 | 4 |
| GO:0019693//ribose phosphate metabolic process | 487 | 19 |
| GO:0032677//regulation of interleukin-8 production | 50 | 2 |
| GO:0033077//T cell differentiation in thymus | 50 | 2 |
| GO:0048525//negative regulation of viral process | 50 | 2 |
| GO:0002761//regulation of myeloid leukocyte differentiation | 77 | 3 |
| GO:0043900//regulation of multi-organism process | 208 | 8 |
| GO:0006536//glutamate metabolic process | 23 | 1 |
| GO:0009147//pyrimidine nucleoside triphosphate metabolic process | 23 | 1 |
| GO:0009220//pyrimidine ribonucleotide biosynthetic process | 23 | 1 |
| GO:0021988//olfactory lobe development | 23 | 1 |
| GO:0032480//negative regulation of type I interferon production | 23 | 1 |
| GO:0042181//ketone biosynthetic process | 23 | 1 |
| GO:0045646//regulation of erythrocyte differentiation | 23 | 1 |
| GO:0045739//positive regulation of DNA repair | 23 | 1 |
| GO:0046189//phenol-containing compound biosynthetic process | 23 | 1 |
| GO:0050995//negative regulation of lipid catabolic process | 23 | 1 |
| GO:0051668//localization within membrane | 23 | 1 |
| GO:0051955//regulation of amino acid transport | 23 | 1 |
| GO:0051983//regulation of chromosome segregation | 23 | 1 |
| GO:0071377//cellular response to glucagon stimulus | 23 | 1 |
| GO:0071378//cellular response to growth hormone stimulus | 23 | 1 |
| GO:0009154//purine ribonucleotide catabolic process | 363 | 14 |
| GO:0043902//positive regulation of multi-organism process | 51 | 2 |
| GO:0000165//MAPK cascade | 131 | 5 |
| GO:0018205//peptidyl-lysine modification | 131 | 5 |

| | | |
|---|-----|----|
| GO:0009261//ribonucleotide catabolic process | 364 | 14 |
| GO:1901605//alpha-amino acid metabolic process | 210 | 8 |
| GO:0045185//maintenance of protein location | 79 | 3 |
| GO:0051592//response to calcium ion | 79 | 3 |
| GO:0006879//cellular iron ion homeostasis | 52 | 2 |
| GO:0050871//positive regulation of B cell activation | 52 | 2 |
| GO:0046390//ribose phosphate biosynthetic process | 106 | 4 |
| GO:0016311//dephosphorylation | 185 | 7 |
| GO:0001914//regulation of T cell mediated cytotoxicity | 24 | 1 |
| GO:0001960//negative regulation of cytokine-mediated signaling pathway | 24 | 1 |
| GO:0007194//negative regulation of adenylate cyclase activity | 24 | 1 |
| GO:0009394//2-deoxyribonucleotide metabolic process | 24 | 1 |
| GO:0010259//multicellular organismal aging | 24 | 1 |
| GO:0010559//regulation of glycoprotein biosynthetic process | 24 | 1 |
| GO:0016339//calcium-dependent cell-cell adhesion | 24 | 1 |
| GO:0018410//C-terminal protein amino acid modification | 24 | 1 |
| GO:0019370//leukotriene biosynthetic process | 24 | 1 |
| GO:0021587//cerebellum morphogenesis | 24 | 1 |
| GO:0032414//positive regulation of ion transmembrane transporter activity | 24 | 1 |
| GO:0042220//response to cocaine | 24 | 1 |
| GO:0043029//T cell homeostasis | 24 | 1 |
| GO:0051445//regulation of meiotic cell cycle | 24 | 1 |
| GO:0002274//myeloid leukocyte activation | 80 | 3 |
| GO:0009150//purine ribonucleotide metabolic process | 470 | 18 |
| GO:0018105//peptidyl-serine phosphorylation | 53 | 2 |
| GO:0031333//negative regulation of protein complex assembly | 53 | 2 |
| GO:0042158//lipoprotein biosynthetic process | 53 | 2 |
| GO:0044728//DNA methylation or demethylation | 53 | 2 |
| GO:0045454//cell redox homeostasis | 53 | 2 |
| GO:0050770//regulation of axonogenesis | 81 | 3 |
| GO:0051403//stress-activated MAPK cascade | 81 | 3 |
| GO:0001706//endoderm formation | 25 | 1 |
| GO:0001710//mesodermal cell fate commitment | 25 | 1 |
| GO:0001961//positive regulation of cytokine-mediated signaling pathway | 25 | 1 |
| GO:0002820//negative regulation of adaptive immune response | 25 | 1 |
| GO:0008210//estrogen metabolic process | 25 | 1 |
| GO:0010508//positive regulation of autophagy | 25 | 1 |
| GO:0015298//solute:cation antiporter activity | 25 | 1 |
| GO:0031280//negative regulation of cyclase activity | 25 | 1 |
| GO:0032715//negative regulation of interleukin-6 production | 25 | 1 |
| GO:0050853//B cell receptor signaling pathway | 25 | 1 |
| GO:0050879//multicellular organismal movement | 25 | 1 |
| GO:0050881//musculoskeletal movement | 25 | 1 |
| GO:0060047//heart contraction | 25 | 1 |
| GO:0060760//positive regulation of response to cytokine stimulus | 25 | 1 |
| GO:0061515//myeloid cell development | 25 | 1 |
| GO:0071479//cellular response to ionizing radiation | 25 | 1 |
| GO:2000403//positive regulation of lymphocyte migration | 25 | 1 |
| GO:1901292//nucleoside phosphate catabolic process | 396 | 15 |
| GO:0021549//cerebellum development | 54 | 2 |
| GO:0030183//B cell differentiation | 54 | 2 |
| GO:0001959//regulation of cytokine-mediated signaling pathway | 82 | 3 |
| GO:0007612//learning | 82 | 3 |
| GO:0031098//stress-activated protein kinase signaling cascade | 82 | 3 |
| GO:0002832//negative regulation of response to biotic stimulus | 26 | 1 |
| GO:0002922//positive regulation of humoral immune response | 26 | 1 |
| GO:0003015//heart process | 26 | 1 |
| GO:0008333//endosome to lysosome transport | 26 | 1 |

| | | |
|---|------|----|
| GO:0019692//deoxyribose phosphate metabolic process | 26 | 1 |
| GO:0021532//neural tube patterning | 26 | 1 |
| GO:0030513//positive regulation of BMP signaling pathway | 26 | 1 |
| GO:0032856//activation of Ras GTPase activity | 26 | 1 |
| GO:0040018//positive regulation of multicellular organism growth | 26 | 1 |
| GO:0042462//eye photoreceptor cell development | 26 | 1 |
| GO:0051350//negative regulation of lyase activity | 26 | 1 |
| GO:0060761//negative regulation of response to cytokine stimulus | 26 | 1 |
| GO:0070534//protein K63-linked ubiquitination | 26 | 1 |
| GO:2001257//regulation of cation channel activity | 26 | 1 |
| GO:0030518//intracellular steroid hormone receptor signaling pathway | 55 | 2 |
| GO:0071158//positive regulation of cell cycle arrest | 55 | 2 |
| GO:0032680//regulation of tumor necrosis factor production | 83 | 3 |
| GO:0051641//cellular localization | 1390 | 54 |
| GO:0006195//purine nucleotide catabolic process | 374 | 14 |
| GO:0051260//protein homooligomerization | 191 | 7 |
| GO:0071822//protein complex subunit organization | 759 | 29 |
| GO:0002224//toll-like receptor signaling pathway | 84 | 3 |
| GO:0022904//respiratory electron transport chain | 84 | 3 |
| GO:0006308//DNA catabolic process | 56 | 2 |
| GO:0006414//translational elongation | 56 | 2 |
| GO:0006921//cellular component disassembly involved in execution phase | 56 | 2 |
| GO:0002714//positive regulation of B cell mediated immunity | 27 | 1 |
| GO:0002891//positive regulation of immunoglobulin mediated immune resp | 27 | 1 |
| GO:0006312//mitotic recombination | 27 | 1 |
| GO:0006614//SRP-dependent cotranslational protein targeting to membran | 27 | 1 |
| GO:0009072//aromatic amino acid family metabolic process | 27 | 1 |
| GO:0009651//response to salt stress | 27 | 1 |
| GO:0030318//melanocyte differentiation | 27 | 1 |
| GO:0034109//homotypic cell-cell adhesion | 27 | 1 |
| GO:0035872//nucleotide-binding domain, leucine rich repeat containing rec | 27 | 1 |
| GO:0048147//negative regulation of fibroblast proliferation | 27 | 1 |
| GO:0046434//organophosphate catabolic process | 429 | 16 |
| GO:0055086//nucleobase-containing small molecule metabolic process | 661 | 25 |
| GO:0008064//regulation of actin polymerization or depolymerization | 85 | 3 |
| GO:0030832//regulation of actin filament length | 85 | 3 |
| GO:0060759//regulation of response to cytokine stimulus | 85 | 3 |
| GO:0072523//purine-containing compound catabolic process | 378 | 14 |
| GO:0005254//chloride channel activity | 57 | 2 |
| GO:0006892//post-Golgi vesicle-mediated transport | 57 | 2 |
| GO:0051952//regulation of amine transport | 57 | 2 |
| GO:0009259//ribonucleotide metabolic process | 483 | 18 |
| GO:0005262//calcium channel activity | 86 | 3 |
| GO:0007218//neuropeptide signaling pathway | 86 | 3 |
| GO:0043901//negative regulation of multi-organism process | 86 | 3 |
| GO:0030308//negative regulation of cell growth | 114 | 4 |
| GO:1901991//negative regulation of mitotic cell cycle phase transition | 114 | 4 |
| GO:1902107//positive regulation of leukocyte differentiation | 114 | 4 |
| GO:0000080//G1 phase of mitotic cell cycle | 28 | 1 |
| GO:0002275//myeloid cell activation involved in immune response | 28 | 1 |
| GO:0006613//cotranslational protein targeting to membrane | 28 | 1 |
| GO:0009262//deoxyribonucleotide metabolic process | 28 | 1 |
| GO:0014075//response to amine stimulus | 28 | 1 |
| GO:0033762//response to glucagon stimulus | 28 | 1 |
| GO:0046928//regulation of neurotransmitter secretion | 28 | 1 |
| GO:0050433//regulation of catecholamine secretion | 28 | 1 |
| GO:0070830//tight junction assembly | 28 | 1 |
| GO:0051649//establishment of localization in cell | 1175 | 45 |

| | | |
|--|-----|----|
| GO:0051258//protein polymerization | 58 | 2 |
| GO:0055067//monovalent inorganic cation homeostasis | 58 | 2 |
| GO:0006461//protein complex assembly | 615 | 23 |
| GO:0002819//regulation of adaptive immune response | 115 | 4 |
| GO:0017038//protein import | 115 | 4 |
| GO:0005253//anion channel activity | 59 | 2 |
| GO:0045761//regulation of adenylate cyclase activity | 59 | 2 |
| GO:0006163//purine nucleotide metabolic process | 488 | 18 |
| GO:0031295//T cell costimulation | 88 | 3 |
| GO:0042113//B cell activation | 88 | 3 |
| GO:0045926//negative regulation of growth | 171 | 6 |
| GO:0001578//microtubule bundle formation | 29 | 1 |
| GO:0006221//pyrimidine nucleotide biosynthetic process | 29 | 1 |
| GO:0006506//GPI anchor biosynthetic process | 29 | 1 |
| GO:0006901//vesicle coating | 29 | 1 |
| GO:0007190//activation of adenylate cyclase activity | 29 | 1 |
| GO:0017144//drug metabolic process | 29 | 1 |
| GO:0017158//regulation of calcium ion-dependent exocytosis | 29 | 1 |
| GO:0021695//cerebellar cortex development | 29 | 1 |
| GO:0021879//forebrain neuron differentiation | 29 | 1 |
| GO:0032312//regulation of ARF GTPase activity | 29 | 1 |
| GO:0042168//heme metabolic process | 29 | 1 |
| GO:0042743//hydrogen peroxide metabolic process | 29 | 1 |
| GO:0045047//protein targeting to ER | 29 | 1 |
| GO:0045777//positive regulation of blood pressure | 29 | 1 |
| GO:0050850//positive regulation of calcium-mediated signaling | 29 | 1 |
| GO:0051279//regulation of release of sequestered calcium ion into cytosol | 29 | 1 |
| GO:0051318//G1 phase | 29 | 1 |
| GO:2000107//negative regulation of leukocyte apoptotic process | 29 | 1 |
| GO:0006366//transcription from RNA polymerase II promoter | 252 | 9 |
| GO:0034341//response to interferon-gamma | 144 | 5 |
| GO:0009057//macromolecule catabolic process | 645 | 24 |
| GO:0070271//protein complex biogenesis | 620 | 23 |
| GO:0006733//oxidoreduction coenzyme metabolic process | 60 | 2 |
| GO:0015078//hydrogen ion transmembrane transporter activity | 60 | 2 |
| GO:0021510//spinal cord development | 60 | 2 |
| GO:0031056//regulation of histone modification | 60 | 2 |
| GO:0046634//regulation of alpha-beta T cell activation | 60 | 2 |
| GO:0031294//lymphocyte costimulation | 89 | 3 |
| GO:0005230//extracellular ligand-gated ion channel activity | 30 | 1 |
| GO:0005231//excitatory extracellular ligand-gated ion channel activity | 30 | 1 |
| GO:0007270//neuron-neuron synaptic transmission | 30 | 1 |
| GO:0031572//G2 DNA damage checkpoint | 30 | 1 |
| GO:0032411//positive regulation of transporter activity | 30 | 1 |
| GO:0032653//regulation of interleukin-10 production | 30 | 1 |
| GO:0033059//cellular pigmentation | 30 | 1 |
| GO:0033619//membrane protein proteolysis | 30 | 1 |
| GO:0043331//response to dsRNA | 30 | 1 |
| GO:0050999//regulation of nitric-oxide synthase activity | 30 | 1 |
| GO:0070228//regulation of lymphocyte apoptotic process | 30 | 1 |
| GO:0072599//establishment of protein localization to endoplasmic reticulum | 30 | 1 |
| GO:0000086//G2/M transition of mitotic cell cycle | 90 | 3 |
| GO:0006821//chloride transport | 61 | 2 |
| GO:0032368//regulation of lipid transport | 61 | 2 |
| GO:0034142//toll-like receptor 4 signaling pathway | 61 | 2 |
| GO:0050851//antigen receptor-mediated signaling pathway | 119 | 4 |
| GO:0016570//histone modification | 229 | 8 |
| GO:0009166//nucleotide catabolic process | 389 | 14 |

| | | |
|--|------|----|
| GO:0042454//ribonucleoside catabolic process | 363 | 13 |
| GO:0072521//purine-containing compound metabolic process | 521 | 19 |
| GO:0009152//purine ribonucleotide biosynthetic process | 91 | 3 |
| GO:0051650//establishment of vesicle localization | 91 | 3 |
| GO:0015992//proton transport | 62 | 2 |
| GO:0030330//DNA damage response, signal transduction by p53 class mec | 62 | 2 |
| GO:0002861//regulation of inflammatory response to antigenic stimulus | 31 | 1 |
| GO:0006505//GPI anchor metabolic process | 31 | 1 |
| GO:0007595//lactation | 31 | 1 |
| GO:0008209//androgen metabolic process | 31 | 1 |
| GO:0018107//peptidyl-threonine phosphorylation | 31 | 1 |
| GO:0032091//negative regulation of protein binding | 31 | 1 |
| GO:0032371//regulation of sterol transport | 31 | 1 |
| GO:0032374//regulation of cholesterol transport | 31 | 1 |
| GO:0035690//cellular response to drug | 31 | 1 |
| GO:0035725//sodium ion transmembrane transport | 31 | 1 |
| GO:0051865//protein autoubiquitination | 31 | 1 |
| GO:0050877//neurological system process | 1396 | 53 |
| GO:0002221//pattern recognition receptor signaling pathway | 92 | 3 |
| GO:0009119//ribonucleoside metabolic process | 471 | 17 |
| GO:0016569//covalent chromatin modification | 232 | 8 |
| GO:0006818//hydrogen transport | 63 | 2 |
| GO:0008361//regulation of cell size | 63 | 2 |
| GO:0019439//aromatic compound catabolic process | 604 | 22 |
| GO:0001754//eye photoreceptor cell differentiation | 32 | 1 |
| GO:0006900//membrane budding | 32 | 1 |
| GO:0007040//lysosome organization | 32 | 1 |
| GO:0030890//positive regulation of B cell proliferation | 32 | 1 |
| GO:0031058//positive regulation of histone modification | 32 | 1 |
| GO:0033209//tumor necrosis factor-mediated signaling pathway | 32 | 1 |
| GO:0042461//photoreceptor cell development | 32 | 1 |
| GO:0045762//positive regulation of adenylate cyclase activity | 32 | 1 |
| GO:0045839//negative regulation of mitosis | 32 | 1 |
| GO:0046580//negative regulation of Ras protein signal transduction | 32 | 1 |
| GO:0048639//positive regulation of developmental growth | 32 | 1 |
| GO:0051784//negative regulation of nuclear division | 32 | 1 |
| GO:0060338//regulation of type I interferon-mediated signaling pathway | 32 | 1 |
| GO:0045619//regulation of lymphocyte differentiation | 122 | 4 |
| GO:0071346//cellular response to interferon-gamma | 122 | 4 |
| GO:0046128//purine ribonucleoside metabolic process | 448 | 16 |
| GO:0050688//regulation of defense response to virus | 64 | 2 |
| GO:0051341//regulation of oxidoreductase activity | 64 | 2 |
| GO:0097194//execution phase of apoptosis | 64 | 2 |
| GO:0000082//G1/S transition of mitotic cell cycle | 94 | 3 |
| GO:0002758//innate immune response-activating signal transduction | 94 | 3 |
| GO:0046488//phosphatidylinositol metabolic process | 123 | 4 |
| GO:0007131//reciprocal meiotic recombination | 33 | 1 |
| GO:0007618//mating | 33 | 1 |
| GO:0009156//ribonucleoside monophosphate biosynthetic process | 33 | 1 |
| GO:0035825//reciprocal DNA recombination | 33 | 1 |
| GO:0050771//negative regulation of axonogenesis | 33 | 1 |
| GO:0051058//negative regulation of small GTPase mediated signal transdu | 33 | 1 |
| GO:0060563//neuroepithelial cell differentiation | 33 | 1 |
| GO:0090382//phagosome maturation | 33 | 1 |
| GO:1902115//regulation of organelle assembly | 33 | 1 |
| GO:0002768//immune response-regulating cell surface receptor signaling p | 208 | 7 |
| GO:0031279//regulation of cyclase activity | 65 | 2 |
| GO:0032321//positive regulation of Rho GTPase activity | 65 | 2 |

| | | |
|---|------|----|
| GO:0050852//T cell receptor signaling pathway | 95 | 3 |
| GO:0042278//purine nucleoside metabolic process | 451 | 16 |
| GO:0032535//regulation of cellular component size | 153 | 5 |
| GO:0002764//immune response-regulating signaling pathway | 291 | 10 |
| GO:0072509//divalent inorganic cation transmembrane transporter activity | 125 | 4 |
| GO:0006164//purine nucleotide biosynthetic process | 96 | 3 |
| GO:0007005//mitochondrion organization | 182 | 6 |
| GO:0019218//regulation of steroid metabolic process | 66 | 2 |
| GO:0032874//positive regulation of stress-activated MAPK cascade | 66 | 2 |
| GO:0071156//regulation of cell cycle arrest | 66 | 2 |
| GO:0009069//serine family amino acid metabolic process | 34 | 1 |
| GO:0009620//response to fungus | 34 | 1 |
| GO:0021983//pituitary gland development | 34 | 1 |
| GO:0030433//ER-associated protein catabolic process | 34 | 1 |
| GO:0043297//apical junction assembly | 34 | 1 |
| GO:0048387//negative regulation of retinoic acid receptor signaling pathway | 34 | 1 |
| GO:2001251//negative regulation of chromosome organization | 34 | 1 |
| GO:0009143//nucleoside triphosphate catabolic process | 348 | 12 |
| GO:0009164//nucleoside catabolic process | 375 | 13 |
| GO:0070304//positive regulation of stress-activated protein kinase signaling | 67 | 2 |
| GO:0006909//phagocytosis | 127 | 4 |
| GO:0031281//positive regulation of cyclase activity | 35 | 1 |
| GO:0032272//negative regulation of protein polymerization | 35 | 1 |
| GO:0072528//pyrimidine-containing compound biosynthetic process | 35 | 1 |
| GO:2000242//negative regulation of reproductive process | 35 | 1 |
| GO:0060333//interferon-gamma-mediated signaling pathway | 98 | 3 |
| GO:0002433//immune response-regulating cell surface receptor signaling p | 68 | 2 |
| GO:0008037//cell recognition | 68 | 2 |
| GO:0038094//Fc-gamma receptor signaling pathway | 68 | 2 |
| GO:0038096//Fc-gamma receptor signaling pathway involved in phagocytosis | 68 | 2 |
| GO:0051339//regulation of lyase activity | 68 | 2 |
| GO:0009059//macromolecule biosynthetic process | 1293 | 48 |
| GO:0045580//regulation of T cell differentiation | 99 | 3 |
| GO:1901658//glycosyl compound catabolic process | 379 | 13 |
| GO:0000184//nuclear-transcribed mRNA catabolic process, nonsense-mediated decay | 36 | 1 |
| GO:0030838//positive regulation of actin filament polymerization | 36 | 1 |
| GO:0032104//regulation of response to extracellular stimulus | 36 | 1 |
| GO:0032107//regulation of response to nutrient levels | 36 | 1 |
| GO:0032722//positive regulation of chemokine production | 36 | 1 |
| GO:0032755//positive regulation of interleukin-6 production | 36 | 1 |
| GO:0034146//toll-like receptor 5 signaling pathway | 36 | 1 |
| GO:0034166//toll-like receptor 10 signaling pathway | 36 | 1 |
| GO:0051353//positive regulation of oxidoreductase activity | 36 | 1 |
| GO:0006304//DNA modification | 69 | 2 |
| GO:0006944//cellular membrane fusion | 69 | 2 |
| GO:0007009//plasma membrane organization | 69 | 2 |
| GO:0044271//cellular nitrogen compound biosynthetic process | 752 | 27 |
| GO:0006275//regulation of DNA replication | 100 | 3 |
| GO:0006839//mitochondrial transport | 100 | 3 |
| GO:0009566//fertilization | 100 | 3 |
| GO:0009141//nucleoside triphosphate metabolic process | 408 | 14 |
| GO:0006152//purine nucleoside catabolic process | 354 | 12 |
| GO:0046130//purine ribonucleoside catabolic process | 354 | 12 |
| GO:0006753//nucleoside phosphate metabolic process | 622 | 22 |
| GO:0000910//cytokinesis | 70 | 2 |
| GO:0002431//Fc receptor mediated stimulatory signaling pathway | 70 | 2 |
| GO:0007219//Notch signaling pathway | 70 | 2 |
| GO:0042770//signal transduction in response to DNA damage | 70 | 2 |

| | | |
|--|-----|----|
| GO:0046916//cellular transition metal ion homeostasis | 70 | 2 |
| GO:0009116//nucleoside metabolic process | 490 | 17 |
| GO:0002757//immune response-activating signal transduction | 273 | 9 |
| GO:0001658//branching involved in ureteric bud morphogenesis | 37 | 1 |
| GO:0009066//aspartate family amino acid metabolic process | 37 | 1 |
| GO:0009124//nucleoside monophosphate biosynthetic process | 37 | 1 |
| GO:0021515//cell differentiation in spinal cord | 37 | 1 |
| GO:0051084//de novo posttranslational protein folding | 37 | 1 |
| GO:0051297//centrosome organization | 37 | 1 |
| GO:0051349//positive regulation of lyase activity | 37 | 1 |
| GO:0051588//regulation of neurotransmitter transport | 37 | 1 |
| GO:0051640//organelle localization | 189 | 6 |
| GO:1901987//regulation of cell cycle phase transition | 246 | 8 |
| GO:0030163//protein catabolic process | 411 | 14 |
| GO:0002218//activation of innate immune response | 102 | 3 |
| GO:0006958//complement activation, classical pathway | 71 | 2 |
| GO:0009451//RNA modification | 71 | 2 |
| GO:0009755//hormone-mediated signaling pathway | 71 | 2 |
| GO:0031110//regulation of microtubule polymerization or depolymerization | 38 | 1 |
| GO:0046530//photoreceptor cell differentiation | 38 | 1 |
| GO:0009260//ribonucleotide biosynthetic process | 103 | 3 |
| GO:0043270//positive regulation of ion transport | 103 | 3 |
| GO:0007283//spermatogenesis | 359 | 12 |
| GO:0046700//heterocycle catabolic process | 602 | 21 |
| GO:0002429//immune response-activating cell surface receptor signaling pathway | 192 | 6 |
| GO:0048232//male gamete generation | 360 | 12 |
| GO:0051603//proteolysis involved in cellular protein catabolic process | 360 | 12 |
| GO:0044270//cellular nitrogen compound catabolic process | 603 | 21 |
| GO:0045088//regulation of innate immune response | 193 | 6 |
| GO:0006778//porphyrin-containing compound metabolic process | 39 | 1 |
| GO:0009311//oligosaccharide metabolic process | 39 | 1 |
| GO:0021872//forebrain generation of neurons | 39 | 1 |
| GO:0048284//organelle fusion | 39 | 1 |
| GO:0060359//response to ammonium ion | 39 | 1 |
| GO:NM_0010 | 250 | 8 |
| GO:0007051//spindle organization | 73 | 2 |
| GO:0061025//membrane fusion | 73 | 2 |
| GO:0019941//modification-dependent protein catabolic process | 334 | 11 |
| GO:0009205//purine ribonucleoside triphosphate metabolic process | 389 | 13 |
| GO:0000209//protein polyubiquitination | 135 | 4 |
| GO:0051235//maintenance of location | 105 | 3 |
| GO:1902105//regulation of leukocyte differentiation | 195 | 6 |
| GO:0000413//protein peptidyl-prolyl isomerization | 40 | 1 |
| GO:0006458//de novo protein folding | 40 | 1 |
| GO:0032941//secretion by tissue | 40 | 1 |
| GO:0061351//neural precursor cell proliferation | 40 | 1 |
| GO:0006260//DNA replication | 166 | 5 |
| GO:0006913//nucleocytoplasmic transport | 166 | 5 |
| GO:0034613//cellular protein localization | 688 | 24 |
| GO:1901362//organic cyclic compound biosynthetic process | 821 | 29 |
| GO:0009144//purine nucleoside triphosphate metabolic process | 392 | 13 |
| GO:0043632//modification-dependent macromolecule catabolic process | 337 | 11 |
| GO:0072657//protein localization to membrane | 75 | 2 |
| GO:0009199//ribonucleoside triphosphate metabolic process | 394 | 13 |
| GO:0032320//positive regulation of Ras GTPase activity | 138 | 4 |
| GO:0002637//regulation of immunoglobulin production | 41 | 1 |
| GO:0006282//regulation of DNA repair | 41 | 1 |
| GO:0006521//regulation of cellular amino acid metabolic process | 41 | 1 |

| | | |
|--|------|----|
| GO:0006626//protein targeting to mitochondrion | 41 | 1 |
| GO:0006888//ER to Golgi vesicle-mediated transport | 41 | 1 |
| GO:0032890//regulation of organic acid transport | 41 | 1 |
| GO:0050848//regulation of calcium-mediated signaling | 41 | 1 |
| GO:2001252//positive regulation of chromosome organization | 41 | 1 |
| GO:0070727//cellular macromolecule localization | 692 | 24 |
| GO:0000018//regulation of DNA recombination | 42 | 1 |
| GO:0002709//regulation of T cell mediated immunity | 42 | 1 |
| GO:0031023//microtubule organizing center organization | 42 | 1 |
| GO:0038123//toll-like receptor TLR1:TLR2 signaling pathway | 42 | 1 |
| GO:0038124//toll-like receptor TLR6:TLR2 signaling pathway | 42 | 1 |
| GO:0042130//negative regulation of T cell proliferation | 42 | 1 |
| GO:0046651//lymphocyte proliferation | 42 | 1 |
| GO:0070972//protein localization to endoplasmic reticulum | 42 | 1 |
| GO:0051169//nuclear transport | 170 | 5 |
| GO:0009203//ribonucleoside triphosphate catabolic process | 342 | 11 |
| GO:0009207//purine ribonucleoside triphosphate catabolic process | 342 | 11 |
| GO:0009117//nucleotide metabolic process | 616 | 21 |
| GO:0043623//cellular protein complex assembly | 200 | 6 |
| GO:0034655//nucleobase-containing compound catabolic process | 563 | 19 |
| GO:0043547//positive regulation of GTPase activity | 201 | 6 |
| GO:0033036//macromolecule localization | 1357 | 49 |
| GO:0009146//purine nucleoside triphosphate catabolic process | 344 | 11 |
| GO:0002763//positive regulation of myeloid leukocyte differentiation | 43 | 1 |
| GO:0032729//positive regulation of interferon-gamma production | 43 | 1 |
| GO:0032943//mononuclear cell proliferation | 43 | 1 |
| GO:0072655//establishment of protein localization to mitochondrion | 43 | 1 |
| GO:0044257//cellular protein catabolic process | 373 | 12 |
| GO:0033365//protein localization to organelle | 289 | 9 |
| GO:0002455//humoral immune response mediated by circulating immunogl | 79 | 2 |
| GO:0006749//glutathione metabolic process | 44 | 1 |
| GO:0010522//regulation of calcium ion transport into cytosol | 44 | 1 |
| GO:0030594//neurotransmitter receptor activity | 44 | 1 |
| GO:0044704//single-organism reproductive behavior | 44 | 1 |
| GO:0070585//protein localization to mitochondrion | 44 | 1 |
| GO:0006974//response to DNA damage stimulus | 513 | 17 |
| GO:0044770//cell cycle phase transition | 174 | 5 |
| GO:0044772//mitotic cell cycle phase transition | 174 | 5 |
| GO:0007588//excretion | 45 | 1 |
| GO:0032313//regulation of Rab GTPase activity | 45 | 1 |
| GO:0032483//regulation of Rab protein signal transduction | 45 | 1 |
| GO:0032663//regulation of interleukin-2 production | 45 | 1 |
| GO:0032851//positive regulation of Rab GTPase activity | 45 | 1 |
| GO:0033555//multicellular organismal response to stress | 45 | 1 |
| GO:0051289//protein homotetramerization | 45 | 1 |
| GO:0006661//phosphatidylinositol biosynthetic process | 82 | 2 |
| GO:0001910//regulation of leukocyte mediated cytotoxicity | 46 | 1 |
| GO:0030888//regulation of B cell proliferation | 46 | 1 |
| GO:0032768//regulation of monooxygenase activity | 46 | 1 |
| GO:0016054//organic acid catabolic process | 178 | 5 |
| GO:0046395//carboxylic acid catabolic process | 178 | 5 |
| GO:0032774//RNA biosynthetic process | 438 | 14 |
| GO:0032273//positive regulation of protein polymerization | 47 | 1 |
| GO:0001505//regulation of neurotransmitter levels | 84 | 2 |
| GO:0006511//ubiquitin-dependent protein catabolic process | 328 | 10 |
| GO:0002889//regulation of immunoglobulin mediated immune response | 48 | 1 |
| GO:0031341//regulation of cell killing | 48 | 1 |
| GO:0033013//tetrapyrrole metabolic process | 48 | 1 |

| | | |
|--|------|----|
| GO:1901988//negative regulation of cell cycle phase transition | 213 | 6 |
| GO:0006351//transcription, DNA-dependent | 416 | 13 |
| GO:0002712//regulation of B cell mediated immunity | 49 | 1 |
| GO:0006497//protein lipidation | 49 | 1 |
| GO:0008630//intrinsic apoptotic signaling pathway in response to DNA dam | 49 | 1 |
| GO:0045727//positive regulation of translation | 49 | 1 |
| GO:0019882//antigen processing and presentation | 274 | 8 |
| GO:0010948//negative regulation of cell cycle process | 245 | 7 |
| GO:0046039//GTP metabolic process | 215 | 6 |
| GO:0033138//positive regulation of peptidyl-serine phosphorylation | 50 | 1 |
| GO:2000106//regulation of leukocyte apoptotic process | 50 | 1 |
| GO:0070647//protein modification by small protein conjugation or removal | 505 | 16 |
| GO:0021536//diencephalon development | 51 | 1 |
| GO:0045333//cellular respiration | 123 | 3 |
| GO:0048285//organelle fission | 187 | 5 |
| GO:0022607//cellular component assembly | 1291 | 45 |
| GO:0000819//sister chromatid segregation | 52 | 1 |
| GO:0002755//MyD88-dependent toll-like receptor signaling pathway | 52 | 1 |
| GO:0006997//nucleus organization | 52 | 1 |
| GO:0032945//negative regulation of mononuclear cell proliferation | 52 | 1 |
| GO:0042440//pigment metabolic process | 52 | 1 |
| GO:0050672//negative regulation of lymphocyte proliferation | 52 | 1 |
| GO:0032271//regulation of protein polymerization | 90 | 2 |
| GO:0072331//signal transduction by p53 class mediator | 90 | 2 |
| GO:0006605//protein targeting | 250 | 7 |
| GO:0042398//cellular modified amino acid biosynthetic process | 53 | 1 |
| GO:0051928//positive regulation of calcium ion transport | 53 | 1 |
| GO:0060337//type I interferon-mediated signaling pathway | 53 | 1 |
| GO:0071357//cellular response to type I interferon | 53 | 1 |
| GO:0044248//cellular catabolic process | 1325 | 46 |
| GO:0044265//cellular macromolecule catabolic process | 540 | 17 |
| GO:0016567//protein ubiquitination | 427 | 13 |
| GO:0002831//regulation of response to biotic stimulus | 92 | 2 |
| GO:0006836//neurotransmitter transport | 92 | 2 |
| GO:0000724//double-strand break repair via homologous recombination | 54 | 1 |
| GO:0006637//acyl-CoA metabolic process | 54 | 1 |
| GO:0010506//regulation of autophagy | 54 | 1 |
| GO:0035383//thioester metabolic process | 54 | 1 |
| GO:0090305//nucleic acid phosphodiester bond hydrolysis | 93 | 2 |
| GO:1901068//guanosine-containing compound metabolic process | 224 | 6 |
| GO:0000725//recombinational repair | 55 | 1 |
| GO:0007033//vacuole organization | 55 | 1 |
| GO:0034340//response to type I interferon | 55 | 1 |
| GO:0031334//positive regulation of protein complex assembly | 94 | 2 |
| GO:0016568//chromatin modification | 346 | 10 |
| GO:0006417//regulation of translation | 195 | 5 |
| GO:ENST000 | 130 | 3 |
| GO:0006418//tRNA aminoacylation for protein translation | 57 | 1 |
| GO:0032088//negative regulation of NF-kappaB transcription factor activity | 57 | 1 |
| GO:0032479//regulation of type I interferon production | 57 | 1 |
| GO:0006996//organelle organization | 1764 | 62 |
| GO:0007093//mitotic cell cycle checkpoint | 97 | 2 |
| GO:0007269//neurotransmitter secretion | 58 | 1 |
| GO:0009062//fatty acid catabolic process | 58 | 1 |
| GO:0046330//positive regulation of JNK cascade | 58 | 1 |
| GO:0051053//negative regulation of DNA metabolic process | 58 | 1 |
| GO:0016482//cytoplasmic transport | 410 | 12 |
| GO:0007018//microtubule-based movement | 134 | 3 |

| | | |
|--|------|-----|
| GO:0006612//protein targeting to membrane | 59 | 1 |
| GO:0000280//nuclear division | 168 | 4 |
| GO:0007067//mitosis | 168 | 4 |
| GO:0034645//cellular macromolecule biosynthetic process | 1244 | 42 |
| GO:0045089//positive regulation of innate immune response | 135 | 3 |
| GO:0044282//small molecule catabolic process | 233 | 6 |
| GO:0044712//single-organism catabolic process | 233 | 6 |
| GO:0010608//posttranscriptional regulation of gene expression | 325 | 9 |
| GO:0019098//reproductive behavior | 60 | 1 |
| GO:0043038//amino acid activation | 60 | 1 |
| GO:0043039//tRNA aminoacylation | 60 | 1 |
| GO:0006184//GTP catabolic process | 203 | 5 |
| GO:0032446//protein modification by small protein conjugation | 447 | 13 |
| GO:0002706//regulation of lymphocyte mediated immunity | 102 | 2 |
| GO:0006914//autophagy | 62 | 1 |
| GO:2000134//negative regulation of G1/S transition of mitotic cell cycle | 62 | 1 |
| GO:0043933//macromolecular complex subunit organization | 1038 | 34 |
| GO:1901069//guanosine-containing compound catabolic process | 206 | 5 |
| GO:0009063//cellular amino acid catabolic process | 104 | 2 |
| GO:0051092//positive regulation of NF-kappaB transcription factor activity | 104 | 2 |
| GO:0051301//cell division | 333 | 9 |
| GO:0031397//negative regulation of protein ubiquitination | 64 | 1 |
| GO:NM_0012 | 64 | 1 |
| GO:0034654//nucleobase-containing compound biosynthetic process | 627 | 19 |
| GO:0002474//antigen processing and presentation of peptide antigen via M | 105 | 2 |
| GO:0006807//nitrogen compound metabolic process | 3073 | 111 |
| GO:0043254//regulation of protein complex assembly | 176 | 4 |
| GO:0002824//positive regulation of adaptive immune response based on sc | 65 | 1 |
| GO:0051329//interphase of mitotic cell cycle | 179 | 4 |
| GO:0051656//establishment of organelle localization | 145 | 3 |
| GO:0006457//protein folding | 180 | 4 |
| GO:0002821//positive regulation of adaptive immune response | 67 | 1 |
| GO:0006289//nucleotide-excision repair | 67 | 1 |
| GO:0007338//single fertilization | 67 | 1 |
| GO:0048193//Golgi vesicle transport | 146 | 3 |
| GO:0006732//coenzyme metabolic process | 181 | 4 |
| GO:0051325//interphase | 181 | 4 |
| GO:0000226//microtubule cytoskeleton organization | 215 | 5 |
| GO:0051262//protein tetramerization | 69 | 1 |
| GO:0006886//intracellular protein transport | 465 | 13 |
| GO:0006968//cellular defense response | 70 | 1 |
| GO:0010498//proteasomal protein catabolic process | 150 | 3 |
| GO:0016064//immunoglobulin mediated immune response | 113 | 2 |
| GO:0072594//establishment of protein localization to organelle | 113 | 2 |
| GO:0051168//nuclear export | 71 | 1 |
| GO:0018130//heterocycle biosynthetic process | 703 | 21 |
| GO:0007127//meiosis I | 72 | 1 |
| GO:0070925//organelle assembly | 222 | 5 |
| GO:0019724//B cell mediated immunity | 115 | 2 |
| GO:0002708//positive regulation of lymphocyte mediated immunity | 73 | 1 |
| GO:0030833//regulation of actin filament polymerization | 73 | 1 |
| GO:0051186//cofactor metabolic process | 224 | 5 |
| GO:0007286//spermatid development | 74 | 1 |
| GO:0032649//regulation of interferon-gamma production | 74 | 1 |
| GO:0042108//positive regulation of cytokine biosynthetic process | 74 | 1 |
| GO:0040029//regulation of gene expression, epigenetic | 117 | 2 |
| GO:0002263//cell activation involved in immune response | 75 | 1 |
| GO:0002366//leukocyte activation involved in immune response | 75 | 1 |

| | | |
|---|------|-----|
| GO:0002705//positive regulation of leukocyte mediated immunity | 75 | 1 |
| GO:0008104//protein localization | 1138 | 36 |
| GO:0043648//dicarboxylic acid metabolic process | 76 | 1 |
| GO:0006413//translational initiation | 77 | 1 |
| GO:0000075//cell cycle checkpoint | 196 | 4 |
| GO:0009165//nucleotide biosynthetic process | 160 | 3 |
| GO:0006261//DNA-dependent DNA replication | 78 | 1 |
| GO:0048515//spermatid differentiation | 78 | 1 |
| GO:0065003//macromolecular complex assembly | 866 | 26 |
| GO:1901293//nucleoside phosphate biosynthetic process | 162 | 3 |
| GO:0006338//chromatin remodeling | 80 | 1 |
| GO:0032259//methylation | 237 | 5 |
| GO:0019438//aromatic compound biosynthetic process | 702 | 20 |
| GO:0000956//nuclear-transcribed mRNA catabolic process | 82 | 1 |
| GO:0002479//antigen processing and presentation of exogenous peptide ar | 82 | 1 |
| GO:0019751//polyol metabolic process | 82 | 1 |
| GO:0007126//meiosis | 127 | 2 |
| GO:1901606//alpha-amino acid catabolic process | 83 | 1 |
| GO:0006323//DNA packaging | 169 | 3 |
| GO:0051321//meiotic cell cycle | 131 | 2 |
| GO:0004930//G-protein coupled receptor activity | 86 | 1 |
| GO:0006479//protein methylation | 86 | 1 |
| GO:0008213//protein alkylation | 86 | 1 |
| GO:0042590//antigen processing and presentation of exogenous peptide ar | 86 | 1 |
| GO:0004888//transmembrane signaling receptor activity | 87 | 1 |
| GO:0044085//cellular component biogenesis | 1423 | 45 |
| GO:0006334//nucleosome assembly | 133 | 2 |
| GO:NM_0011 | 281 | 6 |
| GO:0006325//chromatin organization | 475 | 12 |
| GO:0007049//cell cycle | 921 | 27 |
| GO:0004872//receptor activity | 89 | 1 |
| GO:0038023//signaling receptor activity | 89 | 1 |
| GO:0004871//signal transducer activity | 90 | 1 |
| GO:0006402//mRNA catabolic process | 90 | 1 |
| GO:0060089//molecular transducer activity | 90 | 1 |
| GO:0007017//microtubule-based process | 353 | 8 |
| GO:0000084//S phase of mitotic cell cycle | 92 | 1 |
| GO:0022618//ribonucleoprotein complex assembly | 92 | 1 |
| GO:0051320//S phase | 92 | 1 |
| GO:0006281//DNA repair | 324 | 7 |
| GO:0022402//cell cycle process | 790 | 22 |
| GO:0009108//coenzyme biosynthetic process | 94 | 1 |
| GO:0031396//regulation of protein ubiquitination | 141 | 2 |
| GO:0031497//chromatin assembly | 142 | 2 |
| GO:0071826//ribonucleoprotein complex subunit organization | 96 | 1 |
| GO:0046907//intracellular transport | 855 | 24 |
| GO:0043161//proteasomal ubiquitin-dependent protein catabolic process | 145 | 2 |
| GO:0034728//nucleosome organization | 148 | 2 |
| GO:0031398//positive regulation of protein ubiquitination | 101 | 1 |
| GO:0044260//cellular macromolecule metabolic process | 4106 | 144 |
| GO:0065004//protein-DNA complex assembly | 149 | 2 |
| GO:0060271//cilium morphogenesis | 104 | 1 |
| GO:0006302//double-strand break repair | 105 | 1 |
| GO:0006333//chromatin assembly or disassembly | 155 | 2 |
| GO:0030258//lipid modification | 108 | 1 |
| GO:0015931//nucleobase-containing compound transport | 109 | 1 |
| GO:0000077//DNA damage checkpoint | 111 | 1 |
| GO:0000090//mitotic anaphase | 111 | 1 |

| | | |
|--|------|----|
| GO:0006401//RNA catabolic process | 111 | 1 |
| GO:0051322//anaphase | 113 | 1 |
| GO:0071103//DNA conformation change | 206 | 3 |
| GO:0006310//DNA recombination | 163 | 2 |
| GO:0008380//RNA splicing | 163 | 2 |
| GO:0045184//establishment of protein localization | 868 | 23 |
| GO:0071824//protein-DNA complex subunit organization | 164 | 2 |
| GO:0019886//antigen processing and presentation of exogenous peptide ar | 117 | 1 |
| GO:0031570//DNA integrity checkpoint | 117 | 1 |
| GO:0002495//antigen processing and presentation of peptide antigen via M | 119 | 1 |
| GO:0015031//protein transport | 849 | 22 |
| GO:0034622//cellular macromolecular complex assembly | 435 | 9 |
| GO:0007059//chromosome segregation | 121 | 1 |
| GO:0048002//antigen processing and presentation of peptide antigen | 216 | 3 |
| GO:0016197//endosomal transport | 122 | 1 |
| GO:0051188//cofactor biosynthetic process | 124 | 1 |
| GO:0002504//antigen processing and presentation of peptide or polysaccha | 130 | 1 |
| GO:0022403//cell cycle phase | 316 | 5 |
| GO:0000278//mitotic cell cycle | 498 | 10 |
| GO:0043414//macromolecule methylation | 138 | 1 |
| GO:0000087//M phase of mitotic cell cycle | 139 | 1 |
| GO:0006399//tRNA metabolic process | 143 | 1 |
| GO:0030031//cell projection assembly | 143 | 1 |
| GO:0002478//antigen processing and presentation of exogenous peptide ar | 200 | 2 |
| GO:0019884//antigen processing and presentation of exogenous antigen | 202 | 2 |
| GO:0007600//sensory perception | 826 | 19 |
| GO:0007186//G-protein coupled receptor signaling pathway | 1047 | 26 |
| GO:0051276//chromosome organization | 637 | 13 |
| GO:1901360//organic cyclic compound metabolic process | 2697 | 81 |
| GO:0000279//M phase | 177 | 1 |
| GO:0006397//mRNA processing | 235 | 2 |
| GO:0006259//DNA metabolic process | 708 | 14 |
| GO:0051606//detection of stimulus | 645 | 12 |
| GO:0006412//translation | 341 | 4 |
| GO:0022613//ribonucleoprotein complex biogenesis | 215 | 1 |
| GO:0016071//mRNA metabolic process | 349 | 3 |
| GO:0034641//cellular nitrogen compound metabolic process | 2672 | 73 |
| GO:0034660//ncRNA metabolic process | 275 | 1 |
| GO:0010467//gene expression | 1324 | 26 |
| GO:0006725//cellular aromatic compound metabolic process | 2483 | 61 |
| GO:0016070//RNA metabolic process | 1058 | 17 |
| GO:0006396//RNA processing | 470 | 3 |
| GO:0046483//heterocycle metabolic process | 2465 | 59 |
| GO:0050906//detection of stimulus involved in sensory perception | 503 | 3 |
| GO:0006139//nucleobase-containing compound metabolic process | 2312 | 52 |
| GO:0009593//detection of chemical stimulus | 494 | 2 |
| GO:0090304//nucleic acid metabolic process | 1688 | 30 |
| GO:0007608//sensory perception of smell | 470 | 1 |
| GO:0007606//sensory perception of chemical stimulus | 520 | 1 |

| Input_gene | Gene_Symbol | P_value | Q_value | Significant |
|-----------------|------------------|-----------|-----------|-------------|
| - | - | - | - | - |
| TC01000904.hg.1 | ENSG00000162692; | 0 | 0 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0 | 0 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0 | 0 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0 | 0 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 0 | 0 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0 | 0 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0 | 0 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 0 | 0 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0 | 0 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0 | 0 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0 | 0 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 0 | 0 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0 | 0 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0 | 0 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0 | 0 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0 | 0 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.11E-16 | 2.716E-14 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 1.11E-16 | 2.716E-14 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 3.331E-16 | 7.505E-14 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 6.661E-16 | 1.426E-13 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.886E-15 | 7.921E-13 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 9.659E-15 | 1.88E-12 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 1.343E-14 | 2.5E-12 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 1.821E-14 | 3.248E-12 | TRUE |
| TC01002284.hg.1 | ENSG00000117122; | 1.965E-14 | 3.365E-12 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 2.62E-14 | 4.314E-12 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 3.209E-14 | 5.087E-12 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 2.118E-13 | 3.239E-11 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 2.389E-13 | 3.527E-11 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.234E-13 | 4.435E-11 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 3.256E-13 | 4.435E-11 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 3.315E-13 | 4.435E-11 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.744E-13 | 4.782E-11 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.798E-13 | 4.782E-11 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.118E-12 | 1.368E-10 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 1.519E-12 | 1.807E-10 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.272E-12 | 2.628E-10 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.599E-12 | 2.928E-10 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 5.561E-12 | 6.069E-10 | TRUE |
| TC01000789.hg.1 | ENSG00000162614; | 5.67E-12 | 6.069E-10 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 6.655E-12 | 6.896E-10 | TRUE |
| TC01000789.hg.1 | ENSG00000162614; | 6.765E-12 | 6.896E-10 | TRUE |
| TC01000789.hg.1 | ENSG00000162614; | 1.115E-11 | 1.11E-09 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.147E-11 | 1.116E-09 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.374E-11 | 1.307E-09 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.872E-11 | 1.736E-09 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.906E-11 | 1.736E-09 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.112E-11 | 1.883E-09 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 4.274E-11 | 3.734E-09 | TRUE |
| TC01000789.hg.1 | ENSG00000162614; | 4.435E-11 | 3.797E-09 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 5.498E-11 | 4.615E-09 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 6.07E-11 | 4.916E-09 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 6.086E-11 | 4.916E-09 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.003E-10 | 7.955E-09 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 1.176E-10 | 9.151E-09 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 1.314E-10 | 1.005E-08 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC01000685.hg.1 | ENSG00000162409; | 1.99E-10 | 1.494E-08 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 2.296E-10 | 1.695E-08 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.346E-10 | 1.697E-08 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.379E-10 | 1.697E-08 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 2.505E-10 | 1.733E-08 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 2.51E-10 | 1.733E-08 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.686E-10 | 1.825E-08 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 3.202E-10 | 2.126E-08 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 3.202E-10 | 2.126E-08 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.642E-10 | 2.362E-08 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 5.307E-10 | 3.391E-08 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 5.495E-10 | 3.459E-08 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 5.632E-10 | 3.495E-08 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 6.362E-10 | 3.891E-08 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 6.863E-10 | 4.138E-08 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 7.283E-10 | 4.33E-08 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 8.147E-10 | 4.759E-08 | TRUE |
| TC01000139.hg.1 | ENSG00000171819; | 8.226E-10 | 4.759E-08 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.008E-09 | 5.753E-08 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.287E-09 | 7.249E-08 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 1.378E-09 | 7.662E-08 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.529E-09 | 1.388E-07 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 2.651E-09 | 1.436E-07 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.879E-09 | 1.541E-07 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 3.142E-09 | 1.66E-07 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 4.118E-09 | 2.15E-07 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 4.365E-09 | 2.238E-07 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 4.365E-09 | 2.238E-07 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 6.152E-09 | 3.098E-07 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 6.951E-09 | 3.44E-07 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 6.951E-09 | 3.44E-07 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 7.834E-09 | 3.811E-07 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 9.602E-09 | 4.619E-07 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.063E-08 | 5.054E-07 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.09E-08 | 5.13E-07 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.255E-08 | 5.823E-07 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 1.265E-08 | 5.823E-07 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 1.47E-08 | 6.625E-07 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.47E-08 | 6.625E-07 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 1.68E-08 | 7.493E-07 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 2.412E-08 | 1.064E-06 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.491E-08 | 1.088E-06 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 2.58E-08 | 1.116E-06 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 2.82E-08 | 1.201E-06 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 2.82E-08 | 1.201E-06 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 3.25E-08 | 1.364E-06 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 4.371E-08 | 1.817E-06 | TRUE |
| TC05003423.hg.1 | ENSG00000082196; | 5.241E-08 | 2.158E-06 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 6.684E-08 | 2.725E-06 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 7.704E-08 | 3.111E-06 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 8.017E-08 | 3.202E-06 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 8.078E-08 | 3.202E-06 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 8.242E-08 | 3.237E-06 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 8.713E-08 | 3.391E-06 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 9.232E-08 | 3.561E-06 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 9.46E-08 | 3.616E-06 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 9.903E-08 | 3.752E-06 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 1.06E-07 | 3.98E-06 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|------|
| TC01003638.hg.1 | ENSG0000073756; | 1.069E-07 | 3.98E-06 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 1.093E-07 | 4.034E-06 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 1.139E-07 | 4.167E-06 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 1.488E-07 | 5.399E-06 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 1.522E-07 | 5.475E-06 | TRUE |
| TC05003423.hg.1 | ENSG0000082196; | 1.671E-07 | 5.961E-06 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 1.883E-07 | 6.663E-06 | TRUE |
| TC02001867.hg.1 | ENSG00000115380; | 2.057E-07 | 7.218E-06 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.119E-07 | 7.376E-06 | TRUE |
| TC06004077.hg.1 | ENSG00000243649; | 2.197E-07 | 7.584E-06 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.245E-07 | 7.688E-06 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 2.345E-07 | 7.969E-06 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 2.387E-07 | 8.046E-06 | TRUE |
| TC06001510.hg.1 | ENSG00000137331; | 2.481E-07 | 8.264E-06 | TRUE |
| TC02001750.hg.1 | ENSG00000138061; | 2.481E-07 | 8.264E-06 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 2.57E-07 | 8.463E-06 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 2.939E-07 | 9.605E-06 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.141E-07 | 1.019E-05 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.193E-07 | 1.028E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 3.975E-07 | 1.27E-05 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 4.035E-07 | 1.28E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 4.189E-07 | 1.319E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 4.355E-07 | 1.361E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 6.824E-07 | 2.117E-05 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 7.124E-07 | 2.194E-05 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 7.395E-07 | 2.256E-05 | TRUE |
| TC01001473.hg.1 | ENSG00000143153; | 7.429E-07 | 2.256E-05 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 7.936E-07 | 2.392E-05 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 8.106E-07 | 2.418E-05 | TRUE |
| TC06001510.hg.1 | ENSG00000137331; | 8.106E-07 | 2.418E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 8.383E-07 | 2.475E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 8.691E-07 | 2.548E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 9.098E-07 | 2.649E-05 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 9.387E-07 | 2.715E-05 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 9.805E-07 | 2.786E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 9.816E-07 | 2.786E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 9.816E-07 | 2.786E-05 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 9.891E-07 | 2.786E-05 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 1.003E-06 | 2.796E-05 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 1.003E-06 | 2.796E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 1.073E-06 | 2.964E-05 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 1.294E-06 | 3.55E-05 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 1.309E-06 | 3.569E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.358E-06 | 3.678E-05 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 1.385E-06 | 3.728E-05 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 1.409E-06 | 3.771E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.438E-06 | 3.812E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.438E-06 | 3.812E-05 | TRUE |
| TC02002605.hg.1 | ENSG00000064989; | 1.452E-06 | 3.815E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 1.555E-06 | 4.059E-05 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 1.579E-06 | 4.095E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.633E-06 | 4.212E-05 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 1.695E-06 | 4.344E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 1.733E-06 | 4.416E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.906E-06 | 4.828E-05 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 1.949E-06 | 4.851E-05 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 1.957E-06 | 4.851E-05 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 1.957E-06 | 4.851E-05 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC01000643.hg.1 | ENSG00000116157; | 1.96E-06 | 4.851E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.038E-06 | 5.015E-05 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 2.158E-06 | 5.261E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.163E-06 | 5.261E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.482E-06 | 6.002E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.686E-06 | 6.461E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.815E-06 | 6.713E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.815E-06 | 6.713E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 2.868E-06 | 6.783E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 3.003E-06 | 7.065E-05 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 3.077E-06 | 7.198E-05 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 3.178E-06 | 7.394E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.199E-06 | 7.403E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.26E-06 | 7.503E-05 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 3.311E-06 | 7.58E-05 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 3.388E-06 | 7.715E-05 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 3.555E-06 | 8.03E-05 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 3.555E-06 | 8.03E-05 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 3.609E-06 | 8.055E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 3.613E-06 | 8.055E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 3.992E-06 | 8.799E-05 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 3.997E-06 | 8.799E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 4.008E-06 | 8.799E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 4.214E-06 | 9.127E-05 | TRUE |
| TC02001867.hg.1 | ENSG00000115380; | 4.214E-06 | 9.127E-05 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 4.228E-06 | 9.127E-05 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 4.242E-06 | 9.127E-05 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 4.349E-06 | 9.285E-05 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 4.349E-06 | 9.285E-05 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 4.557E-06 | 9.657E-05 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 5.26E-06 | 0.0001109 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 5.53E-06 | 0.0001161 | TRUE |
| TC06001510.hg.1 | ENSG00000137331; | 5.879E-06 | 0.0001228 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 6.671E-06 | 0.0001386 | TRUE |
| TC02002605.hg.1 | ENSG00000064989; | 6.773E-06 | 0.0001401 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 6.883E-06 | 0.0001417 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 6.917E-06 | 0.0001417 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 6.966E-06 | 0.000142 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 7.268E-06 | 0.0001471 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 7.268E-06 | 0.0001471 | TRUE |
| TC02000082.hg.1 | ENSG00000071575; | 7.798E-06 | 0.0001567 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 8.253E-06 | 0.0001651 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 9.141E-06 | 0.000182 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 9.68E-06 | 0.0001919 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 9.78E-06 | 0.0001929 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 1.018E-05 | 0.0002 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.07E-05 | 0.0002092 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.206E-05 | 0.0002347 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 1.242E-05 | 0.0002406 | TRUE |
| TC05000943.hg.1 | ENSG00000156427; | 1.263E-05 | 0.0002431 | TRUE |
| TC05000943.hg.1 | ENSG00000156427; | 1.263E-05 | 0.0002431 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.311E-05 | 0.0002505 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.348E-05 | 0.0002565 | TRUE |
| TC01000972.hg.1 | ENSG00000064886; | 1.527E-05 | 0.0002893 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 1.559E-05 | 0.0002934 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.559E-05 | 0.0002934 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.594E-05 | 0.000298 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 1.636E-05 | 0.0003039 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC01001805.hg.1 | ENSG00000092969; | 1.636E-05 | 0.0003039 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 1.877E-05 | 0.0003464 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 1.904E-05 | 0.0003498 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 1.959E-05 | 0.0003584 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 1.988E-05 | 0.0003621 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 2.009E-05 | 0.0003637 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 2.009E-05 | 0.0003637 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 2.204E-05 | 0.0003957 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.204E-05 | 0.0003957 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 2.258E-05 | 0.0004028 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 2.276E-05 | 0.0004042 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 2.285E-05 | 0.0004042 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 2.398E-05 | 0.0004225 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.475E-05 | 0.0004334 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.475E-05 | 0.0004334 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 2.516E-05 | 0.0004373 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 2.523E-05 | 0.0004373 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 2.562E-05 | 0.0004423 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 2.641E-05 | 0.0004541 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 2.794E-05 | 0.0004785 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 2.827E-05 | 0.0004821 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 2.989E-05 | 0.0005078 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.118E-05 | 0.0005275 | TRUE |
| TC05000943.hg.1 | ENSG00000156427; | 3.184E-05 | 0.0005366 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.198E-05 | 0.0005368 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.258E-05 | 0.0005448 | TRUE |
| TC05000943.hg.1 | ENSG00000156427; | 3.28E-05 | 0.0005463 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.38E-05 | 0.0005608 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 3.571E-05 | 0.0005898 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 3.582E-05 | 0.0005898 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 3.661E-05 | 0.0006004 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 3.702E-05 | 0.0006049 | TRUE |
| TC01002578.hg.1 | ENSG00000117394; | 3.752E-05 | 0.0006108 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 3.78E-05 | 0.0006129 | TRUE |
| TC01003211.hg.1; | ENSG00000143387; | 3.818E-05 | 0.0006133 | TRUE |
| TC06004073.hg.1 | ENSG00000204520; | 3.818E-05 | 0.0006133 | TRUE |
| TC01003211.hg.1; | ENSG00000143387; | 3.818E-05 | 0.0006133 | TRUE |
| TC03001255.hg.1 | ENSG00000033867; | 3.818E-05 | 0.0006133 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 3.885E-05 | 0.0006182 | TRUE |
| TC02000082.hg.1 | ENSG00000071575; | 3.92E-05 | 0.0006203 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 3.92E-05 | 0.0006203 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 4.05E-05 | 0.0006363 | TRUE |
| TC05000943.hg.1 | ENSG00000156427; | 4.05E-05 | 0.0006363 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 4.106E-05 | 0.0006404 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 4.114E-05 | 0.0006404 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 4.284E-05 | 0.0006644 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 4.463E-05 | 0.0006898 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 4.727E-05 | 0.0007279 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 4.852E-05 | 0.0007446 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 5.007E-05 | 0.0007652 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 5.022E-05 | 0.0007652 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 5.113E-05 | 0.0007763 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 5.316E-05 | 0.0008042 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 5.483E-05 | 0.0008264 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 5.527E-05 | 0.0008275 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 5.528E-05 | 0.0008275 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 5.676E-05 | 0.0008467 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 5.865E-05 | 0.0008718 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC02001750.hg.1 | ENSG00000138061; | 5.934E-05 | 0.000879 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 6.334E-05 | 0.0009327 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 6.357E-05 | 0.0009327 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 6.387E-05 | 0.0009327 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 6.394E-05 | 0.0009327 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 6.394E-05 | 0.0009327 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 6.483E-05 | 0.0009384 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 6.483E-05 | 0.0009384 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 6.51E-05 | 0.0009384 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 6.642E-05 | 0.0009542 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 6.759E-05 | 0.0009677 | TRUE |
| TC05000943.hg.1 | ENSG00000156427; | 6.858E-05 | 0.000978 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 6.894E-05 | 0.000978 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 6.911E-05 | 0.000978 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 6.911E-05 | 0.000978 | TRUE |
| TC02000466.hg.1 | ENSG00000159399; | 7.609E-05 | 0.0010715 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 7.795E-05 | 0.0010917 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 7.804E-05 | 0.0010917 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 7.898E-05 | 0.0011013 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 8.32E-05 | 0.0011565 | TRUE |
| TC02002292.hg.1 | ENSG00000136720; | 8.407E-05 | 0.0011647 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 8.526E-05 | 0.0011726 | TRUE |
| TC01001473.hg.1 | ENSG00000143153; | 8.533E-05 | 0.0011726 | TRUE |
| TC01001473.hg.1 | ENSG00000143153; | 8.533E-05 | 0.0011726 | TRUE |
| TC01003778.hg.1 | ENSG00000076356; | 8.621E-05 | 0.0011769 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 8.632E-05 | 0.0011769 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 9.736E-05 | 0.0013231 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 9.766E-05 | 0.0013231 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 9.862E-05 | 0.0013282 | TRUE |
| TC01001473.hg.1 | ENSG00000143153; | 9.887E-05 | 0.0013282 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 9.897E-05 | 0.0013282 | TRUE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0001016 | 0.0013586 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0001036 | 0.001382 | TRUE |
| TC02002605.hg.1 | ENSG00000064989; | 0.000108 | 0.0014362 | TRUE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0001131 | 0.0014954 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0001132 | 0.0014954 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0001137 | 0.0014972 | TRUE |
| TC01000643.hg.1 | ENSG00000116157; | 0.0001151 | 0.0015116 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.000117 | 0.0015319 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0001189 | 0.0015523 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0001202 | 0.0015645 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0001212 | 0.0015726 | TRUE |
| TC01003042.hg.1 | ENSG00000092607; | 0.0001276 | 0.0016506 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.000129 | 0.0016638 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0001316 | 0.0016913 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0001382 | 0.0017667 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0001382 | 0.0017667 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0001416 | 0.0018036 | TRUE |
| TC04001084.hg.1 | ENSG00000109819; | 0.0001426 | 0.0018114 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0001435 | 0.001817 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 0.000144 | 0.0018179 | TRUE |
| TC02000245.hg.1 | ENSG00000143891; | 0.0001476 | 0.001858 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0001526 | 0.0019155 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0001563 | 0.0019564 | TRUE |
| TC01003211.hg.1; | ENSG00000143387; | 0.0001607 | 0.0020054 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.000162 | 0.0020156 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0001667 | 0.0020585 | TRUE |
| TC06004073.hg.1 | ENSG00000204520; | 0.0001669 | 0.0020585 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|------|
| TC05001933.hg.1 | ENSG00000113721; | 0.0001669 | 0.0020585 | TRUE |
| TC16000474.hg.1 | ENSG00000205358; | 0.0001669 | 0.0020585 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0001695 | 0.0020789 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 0.0001749 | 0.0021396 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0001777 | 0.0021672 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.00018 | 0.0021893 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0001884 | 0.002283 | TRUE |
| TC01002847.hg.1 | ENSG00000117228; | 0.0001898 | 0.002283 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0001901 | 0.002283 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0001901 | 0.002283 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 0.0001904 | 0.002283 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0002003 | 0.0023887 | TRUE |
| TC06001510.hg.1 | ENSG00000137331; | 0.0002003 | 0.0023887 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0002003 | 0.0023887 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0002032 | 0.0024101 | TRUE |
| TC02000466.hg.1 | ENSG00000159399; | 0.0002093 | 0.0024713 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0002093 | 0.0024713 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0002114 | 0.0024864 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0002129 | 0.0024967 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0002163 | 0.0025287 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0002168 | 0.0025287 | TRUE |
| TC01000139.hg.1 | ENSG00000171819; | 0.0002206 | 0.0025666 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0002213 | 0.0025673 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0002345 | 0.0027061 | TRUE |
| TC03000248.hg.1 | ENSG00000144791; | 0.0002348 | 0.0027061 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0002348 | 0.0027061 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0002378 | 0.0027292 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0002407 | 0.0027519 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0002407 | 0.0027519 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0002475 | 0.0028179 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0002494 | 0.002832 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0002512 | 0.0028355 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0002514 | 0.0028355 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0002514 | 0.0028355 | TRUE |
| TC01003042.hg.1 | ENSG00000092607; | 0.0002563 | 0.0028797 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0002579 | 0.002887 | TRUE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0002579 | 0.002887 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0002621 | 0.0029224 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0002775 | 0.0030858 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 0.0002795 | 0.0030999 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0002817 | 0.0031163 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0002851 | 0.0031382 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0002852 | 0.0031382 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0002884 | 0.003166 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0002985 | 0.0032644 | TRUE |
| TC02001750.hg.1 | ENSG00000138061; | 0.0002985 | 0.0032644 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0003002 | 0.0032701 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 0.0003031 | 0.0032862 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0003032 | 0.0032862 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0003099 | 0.0033459 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0003103 | 0.0033459 | TRUE |
| TC03000248.hg.1 | ENSG00000144791; | 0.0003117 | 0.0033523 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0003187 | 0.003419 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0003197 | 0.0034215 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0003245 | 0.0034638 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0003302 | 0.003495 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0003302 | 0.003495 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0003302 | 0.003495 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|------|
| TC01001805.hg.1 | ENSG00000092969; | 0.0003302 | 0.003495 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0003347 | 0.0035294 | TRUE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0003374 | 0.0035488 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0003395 | 0.003562 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0003438 | 0.0035906 | TRUE |
| TC01003042.hg.1 | ENSG00000092607; | 0.0003439 | 0.0035906 | TRUE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0003463 | 0.0036074 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0003545 | 0.0036835 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0003654 | 0.0037875 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0003665 | 0.0037901 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.000405 | 0.0041626 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.000405 | 0.0041626 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.000405 | 0.0041626 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.000405 | 0.0041626 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0004091 | 0.0041795 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0004204 | 0.004285 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0004447 | 0.0045168 | TRUE |
| TC02000620.hg.1 | ENSG00000115594; | 0.0004447 | 0.0045168 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0004483 | 0.0045268 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0004508 | 0.0045268 | TRUE |
| TC02000466.hg.1 | ENSG00000159399; | 0.0004519 | 0.0045268 | TRUE |
| TC02001100.hg.1 | ENSG00000138448; | 0.0004522 | 0.0045268 | TRUE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0004522 | 0.0045268 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0004531 | 0.0045268 | TRUE |
| TC03000262.hg.1 | ENSG00000160801; | 0.0004531 | 0.0045268 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0004557 | 0.0045373 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0004627 | 0.0045958 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0004689 | 0.004641 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0004689 | 0.004641 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0004728 | 0.0046586 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0004728 | 0.0046586 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0004778 | 0.0046872 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0004785 | 0.0046872 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0004841 | 0.0047313 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0004881 | 0.0047595 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0005085 | 0.0049262 | TRUE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0005085 | 0.0049262 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0005086 | 0.0049262 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0005329 | 0.0051442 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0005329 | 0.0051442 | TRUE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0005361 | 0.005157 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0005378 | 0.0051625 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0005668 | 0.0054281 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0005789 | 0.0055321 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0005983 | 0.0057043 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0006308 | 0.0059683 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0006308 | 0.0059683 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0006308 | 0.0059683 | TRUE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0006315 | 0.0059683 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0006332 | 0.0059708 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0006388 | 0.0060063 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0006431 | 0.0060063 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0006431 | 0.0060063 | TRUE |
| TC02001750.hg.1 | ENSG00000138061; | 0.0006433 | 0.0060063 | TRUE |
| TC02001750.hg.1 | ENSG00000138061; | 0.0006433 | 0.0060063 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0006505 | 0.0060536 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0006594 | 0.006123 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0006767 | 0.0062638 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|------|
| TC01003129.hg.1 | ENSG00000143140; | 0.0006767 | 0.0062638 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0006801 | 0.0062746 | TRUE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0007109 | 0.0065292 | TRUE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0007109 | 0.0065292 | TRUE |
| TC10000350.hg.1 | ENSG00000107984; | 0.0007131 | 0.0065292 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0007138 | 0.0065292 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0007689 | 0.0070186 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0007764 | 0.0070646 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0007764 | 0.0070646 | TRUE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0007845 | 0.0071155 | TRUE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0007942 | 0.0071649 | TRUE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0007942 | 0.0071649 | TRUE |
| TC02000466.hg.1 | ENSG00000159399; | 0.0007958 | 0.0071649 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0007958 | 0.0071649 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0008047 | 0.0072224 | TRUE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0008175 | 0.0073217 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0008355 | 0.0074672 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0008522 | 0.007576 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0008522 | 0.007576 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.000853 | 0.007576 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0008644 | 0.0076453 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0008644 | 0.0076453 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0008644 | 0.0076453 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0008722 | 0.0076832 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0008834 | 0.0077054 | TRUE |
| TC02001750.hg.1 | ENSG00000138061; | 0.0008834 | 0.0077054 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0008855 | 0.0077054 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0008855 | 0.0077054 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0008855 | 0.0077054 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0008856 | 0.0077054 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0009141 | 0.0079375 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0009365 | 0.0081155 | TRUE |
| TC05001590.hg.1 | ENSG00000113369; | 0.0009457 | 0.0081787 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0009508 | 0.0081982 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0009508 | 0.0081982 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0009599 | 0.0082435 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0009599 | 0.0082435 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0009661 | 0.0082718 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0009706 | 0.0082851 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0009715 | 0.0082851 | TRUE |
| TC02001206.hg.1 | ENSG00000118257; | 0.0009753 | 0.0082923 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0009753 | 0.0082923 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0009832 | 0.0083268 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0009832 | 0.0083268 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0009874 | 0.008337 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0009897 | 0.00834 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0009932 | 0.0083532 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0010138 | 0.0084996 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0010206 | 0.0084996 | TRUE |
| TC06001089.hg.1 | ENSG00000111981; | 0.0010237 | 0.0084996 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0010237 | 0.0084996 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0010237 | 0.0084996 | TRUE |
| TC06001089.hg.1 | ENSG00000111981; | 0.0010237 | 0.0084996 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0010237 | 0.0084996 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0010237 | 0.0084996 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0010285 | 0.0084996 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 0.0010338 | 0.0085162 | TRUE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0010354 | 0.0085162 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC02001031.hg.1 | ENSG00000152256; | 0.0010354 | 0.0085162 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0010527 | 0.008633 | TRUE |
| TC01000703.hg.1 | ENSG00000132849; | 0.001108 | 0.0090694 | TRUE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0011122 | 0.0090868 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 0.0011362 | 0.0092652 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0011419 | 0.0092677 | TRUE |
| TC03001255.hg.1 | ENSG00000033867; | 0.0011419 | 0.0092677 | TRUE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0011446 | 0.0092677 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0011452 | 0.0092677 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0012035 | 0.0097175 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0012053 | 0.0097175 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.001211 | 0.0097447 | TRUE |
| TC05001752.hg.1 | ENSG00000138829; | 0.0012233 | 0.0097699 | TRUE |
| TC10001711.hg.1; | ENSG00000066468; | 0.0012233 | 0.0097699 | TRUE |
| TC10001711.hg.1; | ENSG00000066468; | 0.0012233 | 0.0097699 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0012233 | 0.0097699 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0012233 | 0.0097699 | TRUE |
| TC08000845.hg.1 | ENSG00000187786; | 0.0012233 | 0.0097699 | TRUE |
| TC03000248.hg.1 | ENSG00000144791; | 0.0012312 | 0.0097699 | TRUE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0012312 | 0.0097699 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0012757 | 0.0100951 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0012857 | 0.010155 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.001293 | 0.0101552 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0012936 | 0.0101552 | TRUE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0012991 | 0.0101552 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0012991 | 0.0101552 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0012991 | 0.0101552 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0012999 | 0.0101552 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0013117 | 0.0102288 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0013238 | 0.0103042 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0013308 | 0.0103398 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0013475 | 0.0104409 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0013475 | 0.0104409 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0013679 | 0.0105609 | TRUE |
| TC06000608.hg.1 | ENSG00000112715; | 0.0013679 | 0.0105609 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0014025 | 0.0107798 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0014026 | 0.0107798 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0014477 | 0.0110972 | TRUE |
| TC10000350.hg.1 | ENSG00000107984; | 0.0014477 | 0.0110972 | TRUE |
| TC02001206.hg.1 | ENSG00000118257; | 0.0014659 | 0.0111927 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0014667 | 0.0111927 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0014972 | 0.0114049 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0015216 | 0.01157 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0015636 | 0.0118684 | TRUE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0015925 | 0.0120667 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0016032 | 0.0121256 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.001608 | 0.0121407 | TRUE |
| TC02001437.hg.1 | ENSG00000144476; | 0.0016172 | 0.0121623 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0016181 | 0.0121623 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0016255 | 0.0121623 | TRUE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0016265 | 0.0121623 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0016265 | 0.0121623 | TRUE |
| TC10000350.hg.1 | ENSG00000107984; | 0.0016265 | 0.0121623 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0016265 | 0.0121623 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0017724 | 0.0131959 | TRUE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0017925 | 0.0133226 | TRUE |
| TC01000703.hg.1 | ENSG00000132849; | 0.0018363 | 0.0136246 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0019133 | 0.0141602 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC03000262.hg.1 | ENSG00000160801; | 0.0019205 | 0.0141602 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0019205 | 0.0141602 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0019205 | 0.0141602 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0019205 | 0.0141602 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0019284 | 0.0141602 | TRUE |
| TC02000466.hg.1 | ENSG00000159399; | 0.0019332 | 0.0141716 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0019435 | 0.0142222 | TRUE |
| TC02002808.hg.1 | ENSG00000116106; | 0.0019621 | 0.0142729 | TRUE |
| TC02001206.hg.1 | ENSG00000118257; | 0.0019621 | 0.0142729 | TRUE |
| TC06004073.hg.1 | ENSG00000204520; | 0.0019621 | 0.0142729 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0019621 | 0.0142729 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0019621 | 0.0142729 | TRUE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0019621 | 0.0142729 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0020021 | 0.0144777 | TRUE |
| TC02001206.hg.1 | ENSG00000118257; | 0.0020082 | 0.0144979 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0020325 | 0.0146487 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0020504 | 0.0147401 | TRUE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0020504 | 0.0147401 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0020648 | 0.0147767 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0020762 | 0.0147767 | TRUE |
| TC03002106.hg.1 | ENSG00000090530; | 0.0020762 | 0.0147767 | TRUE |
| TC02002808.hg.1 | ENSG00000116106; | 0.0020762 | 0.0147767 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0020762 | 0.0147767 | TRUE |
| TC03001590.hg.1 | ENSG00000184500; | 0.0020762 | 0.0147767 | TRUE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0020762 | 0.0147767 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0020762 | 0.0147767 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0020762 | 0.0147767 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0020997 | 0.0148328 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0022531 | 0.0158904 | TRUE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0022884 | 0.0161127 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0022934 | 0.0161215 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0023255 | 0.0163208 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0024059 | 0.0168573 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0024433 | 0.0170908 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0024529 | 0.0171161 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0024529 | 0.0171161 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0024674 | 0.0171617 | TRUE |
| TC04000313.hg.1 | ENSG00000157404; | 0.0024674 | 0.0171617 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0025115 | 0.0174256 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.002538 | 0.0175812 | TRUE |
| TC02001206.hg.1 | ENSG00000118257; | 0.002555 | 0.0176702 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0025845 | 0.0178414 | TRUE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0025901 | 0.0178414 | TRUE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0025901 | 0.0178414 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0026066 | 0.0179115 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0026272 | 0.0180244 | TRUE |
| TC02000466.hg.1 | ENSG00000159399; | 0.002646 | 0.0181238 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0026699 | 0.0182295 | TRUE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0026699 | 0.0182295 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0026699 | 0.0182295 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0027106 | 0.0184483 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0027276 | 0.0185201 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 0.0027276 | 0.0185201 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0027344 | 0.018522 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0027476 | 0.0185819 | TRUE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0027657 | 0.0186752 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0028453 | 0.019182 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0028812 | 0.0193929 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|------|
| TC02000466.hg.1 | ENSG00000159399; | 0.0028856 | 0.0193929 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0028988 | 0.0194508 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0029173 | 0.0195445 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0029648 | 0.0198165 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0029648 | 0.0198165 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0030188 | 0.02012 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.003022 | 0.02012 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0030461 | 0.020249 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0030548 | 0.020275 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0030835 | 0.020434 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0031151 | 0.0206117 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0031247 | 0.0206431 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.003161 | 0.0208508 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0032218 | 0.0210573 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0032218 | 0.0210573 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0032218 | 0.0210573 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0032218 | 0.0210573 | TRUE |
| TC02002808.hg.1 | ENSG00000116106; | 0.0032218 | 0.0210573 | TRUE |
| TC07000328.hg.1 | ENSG00000146648; | 0.0032218 | 0.0210573 | TRUE |
| TC05003423.hg.1 | ENSG00000082196; | 0.0032218 | 0.0210573 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0032218 | 0.0210573 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0032218 | 0.0210573 | TRUE |
| TC06000968.hg.1 | ENSG00000146374; | 0.0032218 | 0.0210573 | TRUE |
| TC05001752.hg.1 | ENSG00000138829; | 0.0032218 | 0.0210573 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0033097 | 0.021419 | TRUE |
| TC03000248.hg.1 | ENSG00000144791; | 0.0033097 | 0.021419 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0033287 | 0.0214936 | TRUE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0033435 | 0.0215239 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0033435 | 0.0215239 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0033435 | 0.0215239 | TRUE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0033591 | 0.0215594 | TRUE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0035025 | 0.0223699 | TRUE |
| TC01003042.hg.1 | ENSG00000092607; | 0.0035025 | 0.0223699 | TRUE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0035025 | 0.0223699 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0035129 | 0.0223699 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0035129 | 0.0223699 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0035167 | 0.0223699 | TRUE |
| TC01002932.hg.1 | ENSG00000060718; | 0.0035221 | 0.0223714 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0035396 | 0.0224463 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0035497 | 0.0224463 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0035497 | 0.0224463 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0035497 | 0.0224463 | TRUE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0035691 | 0.0225024 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0036069 | 0.0227077 | TRUE |
| TC03000248.hg.1 | ENSG00000144791; | 0.0036181 | 0.0227445 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.00375 | 0.0235394 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 0.0038074 | 0.0238644 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.003845 | 0.0240122 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.003845 | 0.0240122 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.003845 | 0.0240122 | TRUE |
| TC02001750.hg.1 | ENSG00000138061; | 0.003845 | 0.0240122 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0038609 | 0.0240242 | TRUE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0038928 | 0.0241303 | TRUE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0038928 | 0.0241303 | TRUE |
| TC03000248.hg.1 | ENSG00000144791; | 0.0039005 | 0.0241303 | TRUE |
| TC04001509.hg.1 | ENSG00000173376; | 0.0039005 | 0.0241303 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0039005 | 0.0241303 | TRUE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0039574 | 0.0244113 | TRUE |

| | | | | |
|------------------|------------------|-----------|-----------|------|
| TC01000394.hg.1 | ENSG00000159023; | 0.0040221 | 0.0247393 | TRUE |
| TC03001466.hg.1 | ENSG00000163931; | 0.0040307 | 0.0247393 | TRUE |
| TC06001772.hg.1 | ENSG00000146233; | 0.0040307 | 0.0247393 | TRUE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0040307 | 0.0247393 | TRUE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0040307 | 0.0247393 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0041554 | 0.0254132 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.004184 | 0.0255517 | TRUE |
| TC06001089.hg.1 | ENSG00000111981; | 0.0042129 | 0.0255777 | TRUE |
| TC02000281.hg.1 | ENSG00000116016; | 0.0042129 | 0.0255777 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0042129 | 0.0255777 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0042129 | 0.0255777 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0042331 | 0.0255777 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0042331 | 0.0255777 | TRUE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0042331 | 0.0255777 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0042331 | 0.0255777 | TRUE |
| TC01003211.hg.1; | ENSG00000143387; | 0.0042331 | 0.0255777 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0042331 | 0.0255777 | TRUE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0042716 | 0.0256837 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0043093 | 0.0258737 | TRUE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0043163 | 0.0258798 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0043531 | 0.0260635 | TRUE |
| TC06001510.hg.1 | ENSG00000137331; | 0.0043659 | 0.0261039 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0043986 | 0.0262629 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0044922 | 0.026776 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0044971 | 0.026776 | TRUE |
| TC01000394.hg.1 | ENSG00000159023; | 0.004504 | 0.0267803 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.004603 | 0.0272375 | TRUE |
| TC02001100.hg.1; | ENSG00000138448; | 0.004603 | 0.0272375 | TRUE |
| TC04000503.hg.1 | ENSG00000138696; | 0.004603 | 0.0272375 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0046573 | 0.0272375 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0046874 | 0.0272375 | TRUE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0046874 | 0.0272375 | TRUE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0046874 | 0.0272375 | TRUE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0046874 | 0.0272375 | TRUE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0046874 | 0.0272375 | TRUE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0046874 | 0.0272375 | TRUE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0046874 | 0.0272375 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0046874 | 0.0272375 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0046874 | 0.0272375 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0046874 | 0.0272375 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0046874 | 0.0272375 | TRUE |
| TC08000845.hg.1 | ENSG00000187786; | 0.0046874 | 0.0272375 | TRUE |
| TC06004066.hg.1 | NR_001434;NR_001 | 0.0046874 | 0.0272375 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.004701 | 0.0272375 | TRUE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0047018 | 0.0272375 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0048182 | 0.0278742 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0050605 | 0.0292364 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0052329 | 0.0301569 | TRUE |
| TC03000577.hg.1 | ENSG00000144857; | 0.0052329 | 0.0301569 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0052696 | 0.0301569 | TRUE |
| TC07001293.hg.1 | ENSG00000106483; | 0.0052696 | 0.0301569 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0052696 | 0.0301569 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0052696 | 0.0301569 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0052696 | 0.0301569 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0052696 | 0.0301569 | TRUE |
| TC05001752.hg.1 | ENSG00000138829; | 0.0052696 | 0.0301569 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0052903 | 0.0301569 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0053389 | 0.0303935 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|------|
| TC01001090.hg.1 | ENSG00000117289; | 0.0055264 | 0.0314189 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0055449 | 0.0314826 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.005635 | 0.0319305 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.005635 | 0.0319305 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0056612 | 0.0320151 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0057957 | 0.0326497 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0057962 | 0.0326497 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0057962 | 0.0326497 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0057962 | 0.0326497 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0058689 | 0.0329724 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0059099 | 0.0331591 | TRUE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0060125 | 0.0336903 | TRUE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0060605 | 0.0338708 | TRUE |
| TC05003423.hg.1 | ENSG00000082196; | 0.0060605 | 0.0338708 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0060605 | 0.0338708 | TRUE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0061171 | 0.0340983 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0063592 | 0.0354012 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0063986 | 0.0355748 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.006463 | 0.0356875 | TRUE |
| TC02000281.hg.1 | ENSG00000116016; | 0.006463 | 0.0356875 | TRUE |
| TC04001245.hg.1 | ENSG00000145242; | 0.006463 | 0.0356875 | TRUE |
| TC03000917.hg.1 | ENSG00000136603; | 0.006463 | 0.0356875 | TRUE |
| TC07000768.hg.1 | ENSG00000174697; | 0.0064953 | 0.0356875 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0064953 | 0.0356875 | TRUE |
| TC19000191.hg.1 | ENSG00000130164; | 0.0064953 | 0.0356875 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0064953 | 0.0356875 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 0.0064953 | 0.0356875 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 0.0064953 | 0.0356875 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0065106 | 0.0356875 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0065339 | 0.0357695 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0066565 | 0.036371 | TRUE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0066565 | 0.036371 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0066785 | 0.0363748 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0066785 | 0.0363748 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0066785 | 0.0363748 | TRUE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0067271 | 0.0365467 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0067627 | 0.0366066 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0067627 | 0.0366066 | TRUE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0067627 | 0.0366066 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0067724 | 0.0366066 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0068054 | 0.0367391 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.00694 | 0.0374185 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0069629 | 0.0374948 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0070544 | 0.0379394 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0072179 | 0.0387702 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0073474 | 0.0394161 | TRUE |
| TC02000219.hg.1 | ENSG00000049323; | 0.0073708 | 0.0394922 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0074328 | 0.039734 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0074345 | 0.039734 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0075007 | 0.0399883 | TRUE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0075007 | 0.0399883 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0075007 | 0.0399883 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0075904 | 0.0403656 | TRUE |
| TC01003497.hg.1 | ENSG00000117479; | 0.0076122 | 0.0404316 | TRUE |
| TC04000173.hg.1 | ENSG00000109610; | 0.0077577 | 0.041128 | TRUE |
| TC10000350.hg.1 | ENSG00000107984; | 0.0077577 | 0.041128 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0078229 | 0.0412581 | TRUE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0078229 | 0.0412581 | TRUE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC02002808.hg.1 | ENSG00000116106; | 0.0078229 | 0.0412581 | TRUE |
| TC02001206.hg.1 | ENSG00000118257; | 0.0078229 | 0.0412581 | TRUE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0078353 | 0.0412581 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.007863 | 0.0413533 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0078947 | 0.0414688 | TRUE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0082279 | 0.0431662 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0082996 | 0.0434893 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0083099 | 0.0434897 | TRUE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0083935 | 0.043767 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0083935 | 0.043767 | TRUE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0083935 | 0.043767 | TRUE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0083935 | 0.043767 | TRUE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0083935 | 0.043767 | TRUE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0085757 | 0.0445269 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0085757 | 0.0445269 | TRUE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0086636 | 0.0447486 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0086636 | 0.0447486 | TRUE |
| TC11000182.hg.1 | ENSG00000148926; | 0.0086636 | 0.0447486 | TRUE |
| TC07001293.hg.1 | ENSG00000106483; | 0.0086636 | 0.0447486 | TRUE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0086636 | 0.0447486 | TRUE |
| TC07001559.hg.1 | ENSG00000075223; | 0.0086636 | 0.0447486 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0086968 | 0.0447486 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0088931 | 0.0455402 | TRUE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0088931 | 0.0455402 | TRUE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0088931 | 0.0455402 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0088931 | 0.0455402 | TRUE |
| TC02000082.hg.1 | ENSG00000071575; | 0.0088931 | 0.0455402 | TRUE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0088931 | 0.0455402 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0088931 | 0.0455402 | TRUE |
| TC01002954.hg.1 | ENSG00000134243; | 0.008939 | 0.0455571 | TRUE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0090221 | 0.0459257 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0090896 | 0.0462147 | TRUE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0092144 | 0.0467616 | TRUE |
| TC01000703.hg.1 | ENSG00000132849; | 0.0092144 | 0.0467616 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.00923 | 0.0467616 | TRUE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0092557 | 0.0468366 | TRUE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0093579 | 0.0468661 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0093579 | 0.0468661 | TRUE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0093579 | 0.0468661 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0093579 | 0.0468661 | TRUE |
| TC07000328.hg.1 | ENSG00000146648; | 0.0093579 | 0.0468661 | TRUE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0093579 | 0.0468661 | TRUE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0093579 | 0.0468661 | TRUE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0093579 | 0.0468661 | TRUE |
| TC07001293.hg.1 | ENSG00000106483; | 0.0093601 | 0.0468661 | TRUE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0094429 | 0.0472257 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0094661 | 0.0472861 | TRUE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0095115 | 0.0474575 | TRUE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0095733 | 0.0477103 | TRUE |
| TC02000281.hg.1 | ENSG00000116016; | 0.0096748 | 0.0481603 | TRUE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0097717 | 0.0485634 | TRUE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0097841 | 0.0485634 | TRUE |
| TC01003211.hg.1 | ENSG00000143387; | 0.0097841 | 0.0485634 | TRUE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0101383 | 0.0502046 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0101383 | 0.0502046 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0102077 | 0.050461 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0103089 | 0.0509024 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0103981 | 0.0512512 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03001466.hg.1 | ENSG00000163931; | 0.0104035 | 0.0512512 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0104289 | 0.0513174 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0106025 | 0.0521115 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0106894 | 0.0524786 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0110046 | 0.0537714 | FALSE |
| TC06001510.hg.1 | ENSG00000137331; | 0.0110469 | 0.0537714 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0110762 | 0.0537714 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0110762 | 0.0537714 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0110762 | 0.0537714 | FALSE |
| TC02000281.hg.1 | ENSG00000116016; | 0.0110762 | 0.0537714 | FALSE |
| TC03000577.hg.1 | ENSG00000144857; | 0.0110762 | 0.0537714 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0110762 | 0.0537714 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0110762 | 0.0537714 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0110762 | 0.0537714 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.0110762 | 0.0537714 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0111097 | 0.0537714 | FALSE |
| TC02000511.hg.1 | ENSG00000168906; | 0.0111097 | 0.0537714 | FALSE |
| TC04000173.hg.1 | ENSG00000109610; | 0.0112063 | 0.053813 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0112063 | 0.053813 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0112063 | 0.053813 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0112063 | 0.053813 | FALSE |
| TC06000608.hg.1 | ENSG00000112715; | 0.0112063 | 0.053813 | FALSE |
| TC04000274.hg.1 | ENSG00000145246; | 0.0112063 | 0.053813 | FALSE |
| TC07001627.hg.1 | ENSG00000105880; | 0.0112063 | 0.053813 | FALSE |
| TC04000274.hg.1 | ENSG00000145246; | 0.0112063 | 0.053813 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0112063 | 0.053813 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0112063 | 0.053813 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0112063 | 0.053813 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0112063 | 0.053813 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0114978 | 0.0547824 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0114978 | 0.0547824 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0115268 | 0.0547985 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0115268 | 0.0547985 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0115809 | 0.0549641 | FALSE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0116722 | 0.0553057 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0116722 | 0.0553057 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0119204 | 0.0563882 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0120196 | 0.0567946 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0122717 | 0.057922 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0123382 | 0.0581716 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0124867 | 0.0588068 | FALSE |
| TC01001603.hg.1 | ENSG00000116690; | 0.0125316 | 0.0589534 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0126525 | 0.0594571 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0126933 | 0.0595735 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.012733 | 0.0595735 | FALSE |
| TC04001509.hg.1 | ENSG00000173376; | 0.012733 | 0.0595735 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.012733 | 0.0595735 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.012733 | 0.0595735 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.012733 | 0.0595735 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0128817 | 0.0600724 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0129762 | 0.0602601 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0129762 | 0.0602601 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0129762 | 0.0602601 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0129853 | 0.0602601 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0129853 | 0.0602601 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0131129 | 0.0606879 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0131129 | 0.0606879 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0131129 | 0.0606879 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01001736.hg.1 | ENSG00000196352; | 0.0132058 | 0.060986 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.0133427 | 0.0615518 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0133587 | 0.0615594 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0137459 | 0.0632757 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0138358 | 0.0636211 | FALSE |
| TC01001907.hg.1 | ENSG00000143641; | 0.0140249 | 0.0644214 | FALSE |
| TC07001293.hg.1 | ENSG00000106483; | 0.0141339 | 0.0646445 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0141339 | 0.0646445 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0141339 | 0.0646445 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0141339 | 0.0646445 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0141339 | 0.0646445 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0141339 | 0.0646445 | FALSE |
| TC02000281.hg.1 | ENSG00000116016; | 0.0141339 | 0.0646445 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.0142415 | 0.0648593 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0143728 | 0.0653879 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0144673 | 0.065748 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0148553 | 0.065977 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0149141 | 0.065977 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0149141 | 0.065977 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.0150917 | 0.065977 | FALSE |
| TC04001509.hg.1 | ENSG00000173376; | 0.0150917 | 0.065977 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0150917 | 0.065977 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0150917 | 0.065977 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0150917 | 0.065977 | FALSE |
| TC05000619.hg.1 | ENSG00000198108; | 0.0150917 | 0.065977 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0151842 | 0.065977 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0152106 | 0.065977 | FALSE |
| TC01000394.hg.1 | ENSG00000159023; | 0.0152217 | 0.065977 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0152328 | 0.065977 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0152328 | 0.065977 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0152328 | 0.065977 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0152328 | 0.065977 | FALSE |
| TC21000241.hg.1 | ENSG00000197381; | 0.0152328 | 0.065977 | FALSE |
| TC10001398.hg.1 | ENSG00000122884; | 0.0152328 | 0.065977 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0152328 | 0.065977 | FALSE |
| TC12000076.hg.1 | ENSG00000010278; | 0.0152328 | 0.065977 | FALSE |
| TC07000328.hg.1 | ENSG00000146648; | 0.0152328 | 0.065977 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.0152328 | 0.065977 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.0152328 | 0.065977 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0152328 | 0.065977 | FALSE |
| TC02000219.hg.1 | ENSG00000049323; | 0.0152328 | 0.065977 | FALSE |
| TC08000845.hg.1 | ENSG00000187786; | 0.0152328 | 0.065977 | FALSE |
| TC08000845.hg.1 | ENSG00000187786; | 0.0152328 | 0.065977 | FALSE |
| TC08000845.hg.1 | ENSG00000187786; | 0.0152328 | 0.065977 | FALSE |
| TC02000281.hg.1 | ENSG00000116016; | 0.0152328 | 0.065977 | FALSE |
| TC05001590.hg.1 | ENSG00000113369; | 0.0152328 | 0.065977 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.0152328 | 0.065977 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0152328 | 0.065977 | FALSE |
| TC10000350.hg.1 | ENSG00000107984; | 0.0152328 | 0.065977 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0152328 | 0.065977 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0152328 | 0.065977 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0152328 | 0.065977 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.0152328 | 0.065977 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0152328 | 0.065977 | FALSE |
| TC07000643.hg.1 | ENSG00000106366; | 0.0152328 | 0.065977 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0152328 | 0.065977 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0152328 | 0.065977 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0152328 | 0.065977 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC03001071.hg.1 | ENSG00000114315; | 0.0152328 | 0.065977 | FALSE |
| TC16000668.hg.1 | ENSG00000103241; | 0.0152328 | 0.065977 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0152328 | 0.065977 | FALSE |
| TC15000226.hg.1 | ENSG00000166923; | 0.0152328 | 0.065977 | FALSE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0152421 | 0.065977 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.015349 | 0.0663726 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0154553 | 0.0667652 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.015784 | 0.0681164 | FALSE |
| TC02002606.hg.1 | ENSG00000003436; | 0.0159106 | 0.0685934 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.016136 | 0.0693663 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.016136 | 0.0693663 | FALSE |
| TC07001293.hg.1 | ENSG00000106483; | 0.0161466 | 0.0693663 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0161466 | 0.0693663 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0164486 | 0.0705574 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0165015 | 0.0707138 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0166889 | 0.071445 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0167649 | 0.0716988 | FALSE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0168928 | 0.0721737 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.016969 | 0.0724268 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0170824 | 0.0728386 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0172062 | 0.0731458 | FALSE |
| TC06004073.hg.1 | ENSG00000204520; | 0.0174016 | 0.0731458 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0174016 | 0.0731458 | FALSE |
| TC11000182.hg.1; | ENSG00000148926; | 0.0174016 | 0.0731458 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0174016 | 0.0731458 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0174016 | 0.0731458 | FALSE |
| TC03001590.hg.1 | ENSG00000184500; | 0.0174495 | 0.0731458 | FALSE |
| TC07000220.hg.1 | ENSG00000164619; | 0.0174535 | 0.0731458 | FALSE |
| TC10001744.hg.1 | ENSG00000148848; | 0.0174535 | 0.0731458 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0174535 | 0.0731458 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0174535 | 0.0731458 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0174535 | 0.0731458 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0174535 | 0.0731458 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0174535 | 0.0731458 | FALSE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0174535 | 0.0731458 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0174535 | 0.0731458 | FALSE |
| TC11002140.hg.1; | ENSG00000149256; | 0.0174535 | 0.0731458 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0174535 | 0.0731458 | FALSE |
| TC10000986.hg.1 | ENSG00000151632; | 0.0174535 | 0.0731458 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0174535 | 0.0731458 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0174535 | 0.0731458 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0174535 | 0.0731458 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.0174535 | 0.0731458 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0174535 | 0.0731458 | FALSE |
| TC07000328.hg.1 | ENSG00000146648; | 0.0174535 | 0.0731458 | FALSE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0174535 | 0.0731458 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0174535 | 0.0731458 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0181667 | 0.0752508 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0181667 | 0.0752508 | FALSE |
| TC05003423.hg.1 | ENSG00000082196; | 0.0181667 | 0.0752508 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0181667 | 0.0752508 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0182598 | 0.0754537 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0182878 | 0.0754965 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0184434 | 0.0760658 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0187258 | 0.0771562 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0188248 | 0.0772724 | FALSE |
| TC01001907.hg.1 | ENSG00000143641; | 0.0188248 | 0.0772724 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0188248 | 0.0772724 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC02002714.hg.1 | ENSG00000163251; | 0.0188248 | 0.0772724 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0188443 | 0.0772724 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0189308 | 0.0775157 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0189308 | 0.0775157 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0193341 | 0.0790539 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0194179 | 0.0792828 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0194179 | 0.0792828 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0195134 | 0.0795209 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0195134 | 0.0795209 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0199202 | 0.0808708 | FALSE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0199202 | 0.0808708 | FALSE |
| TC07000220.hg.1 | ENSG00000164619; | 0.0199202 | 0.0808708 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0199202 | 0.0808708 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0199202 | 0.0808708 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0199202 | 0.0808708 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.0201058 | 0.0813161 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0201058 | 0.0813161 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0201614 | 0.0814253 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0202744 | 0.0818044 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0205289 | 0.0827536 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0205978 | 0.082953 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0207258 | 0.0833902 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0208084 | 0.0836439 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0209245 | 0.0839925 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0209245 | 0.0839925 | FALSE |
| TC10001744.hg.1 | ENSG00000148848; | 0.0211693 | 0.0841914 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0211693 | 0.0841914 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0211693 | 0.0841914 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0211693 | 0.0841914 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0211693 | 0.0841914 | FALSE |
| TC04001245.hg.1 | ENSG00000145242; | 0.0211693 | 0.0841914 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.0211693 | 0.0841914 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947; | 0.0211693 | 0.0841914 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.0211693 | 0.0841914 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0211693 | 0.0841914 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0211693 | 0.0841914 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.0211693 | 0.0841914 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0211693 | 0.0841914 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0212593 | 0.0841914 | FALSE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0214355 | 0.0848111 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0216729 | 0.0856177 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0216794 | 0.0856177 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0217999 | 0.0860022 | FALSE |
| TC06004073.hg.1 | ENSG00000204520; | 0.0218284 | 0.0860022 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0218601 | 0.0860022 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0218672 | 0.0860022 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0218672 | 0.0860022 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0221389 | 0.0861295 | FALSE |
| TC01001095.hg.1 | ENSG00000143127; | 0.0222023 | 0.0861295 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.0222375 | 0.0861295 | FALSE |
| TC09001326.hg.1 | ENSG00000169071; | 0.0222375 | 0.0861295 | FALSE |
| TC02002765.hg.1 | ENSG00000079308; | 0.0222375 | 0.0861295 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.0222375 | 0.0861295 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0222375 | 0.0861295 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0222375 | 0.0861295 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0222375 | 0.0861295 | FALSE |
| TC04001509.hg.1 | ENSG00000173376; | 0.0222375 | 0.0861295 | FALSE |
| TC10002924.hg.1 | ENSG00000187134; | 0.0222375 | 0.0861295 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03002146.hg.1 | ENSG00000189058; | 0.0222375 | 0.0861295 | FALSE |
| TC16000668.hg.1 | ENSG00000103241; | 0.0222375 | 0.0861295 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.0222375 | 0.0861295 | FALSE |
| TC16000668.hg.1 | ENSG00000103241; | 0.0222375 | 0.0861295 | FALSE |
| TC11000707.hg.1 | ENSG00000162337; | 0.0222375 | 0.0861295 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0222375 | 0.0861295 | FALSE |
| TC07001559.hg.1 | ENSG00000075223; | 0.0222375 | 0.0861295 | FALSE |
| TC04000699.hg.1 | ENSG00000109458; | 0.0222375 | 0.0861295 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0222375 | 0.0861295 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0222375 | 0.0861295 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0222375 | 0.0861295 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0222375 | 0.0861295 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0222375 | 0.0861295 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0222375 | 0.0861295 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0222375 | 0.0861295 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.0222375 | 0.0861295 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.0222375 | 0.0861295 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0222375 | 0.0861295 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0225857 | 0.0861295 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0226519 | 0.0861295 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0226519 | 0.0861295 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0226519 | 0.0861295 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0226519 | 0.0861295 | FALSE |
| TC05001752.hg.1 | ENSG00000138829; | 0.0226519 | 0.0861295 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0226519 | 0.0861295 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.022654 | 0.0861295 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0231109 | 0.0877887 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0235084 | 0.0892029 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0235353 | 0.0892029 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0235353 | 0.0892029 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0236404 | 0.0894824 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0237297 | 0.089741 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0244593 | 0.0924185 | FALSE |
| TC01000789.hg.1 | ENSG00000162614; | 0.024522 | 0.092574 | FALSE |
| TC07001332.hg.1 | ENSG00000164708; | 0.0245677 | 0.0926646 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0249912 | 0.094179 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0250857 | 0.0944105 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0250857 | 0.0944105 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0251427 | 0.0945002 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.025283 | 0.0945711 | FALSE |
| TC12001324.hg.1 | ENSG00000123095; | 0.025283 | 0.0945711 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.025283 | 0.0945711 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.025283 | 0.0945711 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.025283 | 0.0945711 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.025283 | 0.0945711 | FALSE |
| TC10000811.hg.1 | ENSG00000150594; | 0.025283 | 0.0945711 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.025283 | 0.0945711 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.025283 | 0.0945711 | FALSE |
| TC04000274.hg.1 | ENSG00000145246; | 0.025283 | 0.0945711 | FALSE |
| TC01002616.hg.1 | ENSG00000117461; | 0.0256005 | 0.095117 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0256005 | 0.095117 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.0256005 | 0.095117 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0256005 | 0.095117 | FALSE |
| TC01000703.hg.1 | ENSG00000132849; | 0.0256956 | 0.095117 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0256956 | 0.095117 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0256956 | 0.095117 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0256956 | 0.095117 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0256956 | 0.095117 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC01001624.hg.1 | ENSG00000116741; | 0.0256956 | 0.095117 | FALSE |
| TC02000281.hg.1 | ENSG00000116016; | 0.0258358 | 0.0953475 | FALSE |
| TC01000789.hg.1 | ENSG00000162614; | 0.0264071 | 0.0973718 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0265798 | 0.0979245 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0267103 | 0.0982784 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.0267103 | 0.0982784 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0268493 | 0.0986627 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0271333 | 0.0996207 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0276075 | 0.101275 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0277668 | 0.1017286 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0277668 | 0.1017286 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0278316 | 0.1018353 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0278795 | 0.1019233 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.0283446 | 0.1034553 | FALSE |
| TC02002606.hg.1 | ENSG00000003436; | 0.0285281 | 0.1034553 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0286955 | 0.1034553 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0286955 | 0.1034553 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0287692 | 0.1034553 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0287692 | 0.1034553 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0287692 | 0.1034553 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0287692 | 0.1034553 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0287692 | 0.1034553 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0287692 | 0.1034553 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0287692 | 0.1034553 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.0287692 | 0.1034553 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0287692 | 0.1034553 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0287692 | 0.1034553 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0287692 | 0.1034553 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0287692 | 0.1034553 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0287805 | 0.1034553 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0287805 | 0.1034553 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0287805 | 0.1034553 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0287819 | 0.1034553 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0291253 | 0.104602 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0292476 | 0.1049531 | FALSE |
| TC06001089.hg.1 | ENSG00000111981; | 0.0295489 | 0.1058384 | FALSE |
| TC10001744.hg.1 | ENSG00000148848; | 0.0297937 | 0.1058384 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.0297937 | 0.1058384 | FALSE |
| TC10000811.hg.1; | ENSG00000150594; | 0.0297937 | 0.1058384 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0297937 | 0.1058384 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.0297937 | 0.1058384 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0297937 | 0.1058384 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0297937 | 0.1058384 | FALSE |
| TC07001618.hg.1 | ENSG00000004799; | 0.0297937 | 0.1058384 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.0299454 | 0.1058384 | FALSE |
| TC15000226.hg.1 | ENSG00000166923; | 0.030302 | 0.1058384 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.030302 | 0.1058384 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.030302 | 0.1058384 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.030302 | 0.1058384 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.030302 | 0.1058384 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.030302 | 0.1058384 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.030302 | 0.1058384 | FALSE |
| TC12001324.hg.1 | ENSG00000123095; | 0.030302 | 0.1058384 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.030302 | 0.1058384 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.030302 | 0.1058384 | FALSE |
| TC07001630.hg.1 | ENSG00000070669; | 0.030302 | 0.1058384 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.030302 | 0.1058384 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.030302 | 0.1058384 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC02000762.hg.1 | ENSG00000163083; | 0.030302 | 0.1058384 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.030302 | 0.1058384 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.030302 | 0.1058384 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.030302 | 0.1058384 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.030302 | 0.1058384 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.030302 | 0.1058384 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.030302 | 0.1058384 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.030302 | 0.1058384 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.030302 | 0.1058384 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.030302 | 0.1058384 | FALSE |
| TC12001324.hg.1 | ENSG00000123095; | 0.030302 | 0.1058384 | FALSE |
| TC03001888.hg.1 | ENSG00000169908; | 0.030302 | 0.1058384 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0303843 | 0.1058384 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.030497 | 0.106071 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0305007 | 0.106071 | FALSE |
| TC01001095.hg.1 | ENSG00000143127; | 0.0306256 | 0.1064189 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0306605 | 0.1064537 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0307185 | 0.1065689 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0314178 | 0.1089065 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.031841 | 0.1102842 | FALSE |
| TC06004073.hg.1 | ENSG00000204520; | 0.0321603 | 0.1112102 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0321603 | 0.1112102 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.0321603 | 0.1112102 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0322611 | 0.111334 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0322611 | 0.111334 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.032641 | 0.1124337 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0326454 | 0.1124337 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0333739 | 0.1148501 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0336588 | 0.1156448 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0336588 | 0.1156448 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0336588 | 0.1156448 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0338114 | 0.1159829 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.033922 | 0.1162689 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0343412 | 0.1176117 | FALSE |
| TC01000394.hg.1 | ENSG00000159023; | 0.0344442 | 0.1178701 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0346312 | 0.1179503 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0346312 | 0.1179503 | FALSE |
| TC04001245.hg.1 | ENSG00000145242; | 0.0346985 | 0.1179503 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0346985 | 0.1179503 | FALSE |
| TC05000054.hg.1 | ENSG00000078295; | 0.0346985 | 0.1179503 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0346985 | 0.1179503 | FALSE |
| TC06000608.hg.1 | ENSG00000112715; | 0.0346985 | 0.1179503 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0346985 | 0.1179503 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0347431 | 0.1179503 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0347431 | 0.1179503 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0347431 | 0.1179503 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0351238 | 0.1189124 | FALSE |
| TC02001867.hg.1 | ENSG00000115380; | 0.0351238 | 0.1189124 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0351238 | 0.1189124 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0351238 | 0.1189124 | FALSE |
| TC01002847.hg.1 | ENSG00000117228; | 0.0355975 | 0.1202784 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.0357061 | 0.1205503 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0357755 | 0.1206419 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0357755 | 0.1206419 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0362605 | 0.1221332 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0371416 | 0.1248064 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0371416 | 0.1248064 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0371416 | 0.1248064 | FALSE |

| | | | | |
|-----------------|-----------------|-----------|-----------|-------|
| TC01003638.hg.1 | ENSG0000073756; | 0.0375551 | 0.1260967 | FALSE |
| TC01003638.hg.1 | ENSG0000073756; | 0.0381384 | 0.1278048 | FALSE |
| TC02000041.hg.1 | ENSG0000115738; | 0.0381384 | 0.1278048 | FALSE |
| TC05001110.hg.1 | ENSG0000153395; | 0.0381384 | 0.1278048 | FALSE |
| TC05001110.hg.1 | ENSG0000153395; | 0.0381384 | 0.1278048 | FALSE |
| TC01001607.hg.1 | ENSG0000116711; | 0.0385591 | 0.1283841 | FALSE |
| TC01001607.hg.1 | ENSG0000116711; | 0.0385591 | 0.1283841 | FALSE |
| TC01001473.hg.1 | ENSG0000143153; | 0.0389593 | 0.1283841 | FALSE |
| TC03000214.hg.1 | ENSG0000168036; | 0.039212 | 0.1283841 | FALSE |
| TC04002931.hg.1 | ENSG0000134853; | 0.0393287 | 0.1283841 | FALSE |
| TC05000943.hg.1 | ENSG0000156427; | 0.0393287 | 0.1283841 | FALSE |
| TC01003129.hg.1 | ENSG0000143140; | 0.0393287 | 0.1283841 | FALSE |
| TC01002166.hg.1 | ENSG0000116285; | 0.0393287 | 0.1283841 | FALSE |
| TC02002823.hg.1 | ENSG0000135919; | 0.0393287 | 0.1283841 | FALSE |
| TC05000165.hg.1 | ENSG0000079215; | 0.0393287 | 0.1283841 | FALSE |
| TC10001398.hg.1 | ENSG0000122884; | 0.0393287 | 0.1283841 | FALSE |
| TC07000328.hg.1 | ENSG0000146648; | 0.0393287 | 0.1283841 | FALSE |
| TC02000762.hg.1 | ENSG0000163083; | 0.0393287 | 0.1283841 | FALSE |
| TC02001867.hg.1 | ENSG0000115380; | 0.0393287 | 0.1283841 | FALSE |
| TC07000328.hg.1 | ENSG0000146648; | 0.0393287 | 0.1283841 | FALSE |
| TC15000226.hg.1 | ENSG0000166923; | 0.0393287 | 0.1283841 | FALSE |
| TC07000004.hg.1 | ENSG0000177706; | 0.0393287 | 0.1283841 | FALSE |
| TC06002168.hg.1 | ENSG0000164442; | 0.0393287 | 0.1283841 | FALSE |
| TC02002823.hg.1 | ENSG0000135919; | 0.0393287 | 0.1283841 | FALSE |
| TC02000281.hg.1 | ENSG0000116016; | 0.0393287 | 0.1283841 | FALSE |
| TC02000762.hg.1 | ENSG0000163083; | 0.0393287 | 0.1283841 | FALSE |
| TC01003497.hg.1 | ENSG0000117479; | 0.0393287 | 0.1283841 | FALSE |
| TC02000286.hg.1 | ENSG0000171150; | 0.0393287 | 0.1283841 | FALSE |
| TC03000577.hg.1 | ENSG0000144857; | 0.0393287 | 0.1283841 | FALSE |
| TC06000945.hg.1 | ENSG0000152661; | 0.0393287 | 0.1283841 | FALSE |
| TC02002823.hg.1 | ENSG0000135919; | 0.0393287 | 0.1283841 | FALSE |
| TC06000945.hg.1 | ENSG0000152661; | 0.0393287 | 0.1283841 | FALSE |
| TC02000281.hg.1 | ENSG0000116016; | 0.0393287 | 0.1283841 | FALSE |
| TC07001562.hg.1 | ENSG0000019991; | 0.0393287 | 0.1283841 | FALSE |
| TC06000595.hg.1 | ENSG0000112655; | 0.0393287 | 0.1283841 | FALSE |
| TC06000595.hg.1 | ENSG0000112655; | 0.0393287 | 0.1283841 | FALSE |
| TC16000473.hg.1 | ENSG0000198417; | 0.0393287 | 0.1283841 | FALSE |
| TC02001628.hg.1 | ENSG0000084674; | 0.0393287 | 0.1283841 | FALSE |
| TC07001552.hg.1 | ENSG0000187391; | 0.0393287 | 0.1283841 | FALSE |
| TC03000214.hg.1 | ENSG0000168036; | 0.0393287 | 0.1283841 | FALSE |
| TC02002624.hg.1 | ENSG0000115415; | 0.0393287 | 0.1283841 | FALSE |
| TC02002624.hg.1 | ENSG0000115415; | 0.0393287 | 0.1283841 | FALSE |
| TC03002146.hg.1 | ENSG0000189058; | 0.0393287 | 0.1283841 | FALSE |
| TC01000972.hg.1 | ENSG0000064886; | 0.0393287 | 0.1283841 | FALSE |
| TC06000945.hg.1 | ENSG0000152661; | 0.0393287 | 0.1283841 | FALSE |
| TC01000972.hg.1 | ENSG0000064886; | 0.0396158 | 0.1283841 | FALSE |
| TC02000511.hg.1 | ENSG0000168906; | 0.0396158 | 0.1283841 | FALSE |
| TC01002616.hg.1 | ENSG0000117461; | 0.0396158 | 0.1283841 | FALSE |
| TC02000041.hg.1 | ENSG0000115738; | 0.0397654 | 0.1286741 | FALSE |
| TC02002292.hg.1 | ENSG0000136720; | 0.0399927 | 0.1288252 | FALSE |
| TC02001031.hg.1 | ENSG0000152256; | 0.0399927 | 0.1288252 | FALSE |
| TC01001624.hg.1 | ENSG0000116741; | 0.0399927 | 0.1288252 | FALSE |
| TC01001805.hg.1 | ENSG0000092969; | 0.0399927 | 0.1288252 | FALSE |
| TC10000811.hg.1 | ENSG0000150594; | 0.0399927 | 0.1288252 | FALSE |
| TC11000238.hg.1 | ENSG0000173432; | 0.0399927 | 0.1288252 | FALSE |
| TC08001275.hg.1 | ENSG0000172817; | 0.0399927 | 0.1288252 | FALSE |
| TC03000214.hg.1 | ENSG0000168036; | 0.0399927 | 0.1288252 | FALSE |
| TC19000191.hg.1 | ENSG0000130164; | 0.0399927 | 0.1288252 | FALSE |

| | | | | |
|-----------------|-----------------|-----------|-----------|-------|
| TC01001188.hg.1 | ENSG00000143369 | 0.0399927 | 0.1288252 | FALSE |
| TC12001324.hg.1 | ENSG00000123095 | 0.0399927 | 0.1288252 | FALSE |
| TC01001736.hg.1 | ENSG00000196352 | 0.0404248 | 0.1295832 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.0404248 | 0.1295832 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.0408458 | 0.1307859 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.0413065 | 0.1319649 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.0413065 | 0.1319649 | FALSE |
| TC04000274.hg.1 | ENSG00000145246 | 0.0413065 | 0.1319649 | FALSE |
| TC02001867.hg.1 | ENSG00000115380 | 0.0413065 | 0.1319649 | FALSE |
| TC02002808.hg.1 | ENSG00000116106 | 0.0413065 | 0.1319649 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.0417431 | 0.1330619 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.0425039 | 0.1347347 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.0425039 | 0.1347347 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.0427868 | 0.1348824 | FALSE |
| TC08000845.hg.1 | ENSG00000187786 | 0.0436817 | 0.1375516 | FALSE |
| TC04000274.hg.1 | ENSG00000145246 | 0.0436817 | 0.1375516 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.0440409 | 0.1384789 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.0440409 | 0.1384789 | FALSE |
| TC02001963.hg.1 | ENSG00000163235 | 0.0449483 | 0.141073 | FALSE |
| TC01000783.hg.1 | ENSG00000117069 | 0.0449483 | 0.141073 | FALSE |
| TC01001095.hg.1 | ENSG00000143127 | 0.0449483 | 0.141073 | FALSE |
| TC01002578.hg.1 | ENSG00000117394 | 0.045358 | 0.1420466 | FALSE |
| TC01001704.hg.1 | ENSG00000163531 | 0.045358 | 0.1420466 | FALSE |
| TC05003423.hg.1 | ENSG00000082196 | 0.045358 | 0.1420466 | FALSE |
| TC02002808.hg.1 | ENSG00000116106 | 0.0456697 | 0.1424496 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.0456697 | 0.1424496 | FALSE |
| TC03001255.hg.1 | ENSG00000033867 | 0.0456697 | 0.1424496 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.0456697 | 0.1424496 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.0456697 | 0.1424496 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.0456697 | 0.1424496 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.0456697 | 0.1424496 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.0456697 | 0.1424496 | FALSE |
| TC01000904.hg.1 | ENSG00000162692 | 0.0461124 | 0.1433603 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.0463345 | 0.1439463 | FALSE |
| TC01001704.hg.1 | ENSG00000163531 | 0.0465927 | 0.1446212 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.0466193 | 0.1446212 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.0479729 | 0.1484879 | FALSE |
| TC01001907.hg.1 | ENSG00000143641 | 0.0479729 | 0.1484879 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.0479729 | 0.1484879 | FALSE |
| TC04002931.hg.1 | ENSG00000134853 | 0.0479729 | 0.1484879 | FALSE |
| TC03001362.hg.1 | ENSG00000160808 | 0.0481067 | 0.1484879 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.0481067 | 0.1484879 | FALSE |
| TC01002669.hg.1 | ENSG00000157193 | 0.0481067 | 0.1484879 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.0481433 | 0.1484879 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.0483287 | 0.1488989 | FALSE |
| TC06000595.hg.1 | ENSG00000112655 | 0.0483287 | 0.1488989 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01006336.hg.1 | ENSG00000162706; | 0.0485867 | 0.1495324 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0487105 | 0.1496183 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0492262 | 0.1496183 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0492262 | 0.1496183 | FALSE |
| TC02001750.hg.1 | ENSG00000138061; | 0.0492262 | 0.1496183 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0492262 | 0.1496183 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.0492262 | 0.1496183 | FALSE |
| TC04000173.hg.1 | ENSG00000109610; | 0.0492262 | 0.1496183 | FALSE |
| TC07000328.hg.1 | ENSG00000146648; | 0.0492262 | 0.1496183 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.0492262 | 0.1496183 | FALSE |
| TC07001552.hg.1 | ENSG00000187391; | 0.0492262 | 0.1496183 | FALSE |
| TC07000643.hg.1 | ENSG00000106366; | 0.0492262 | 0.1496183 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0492262 | 0.1496183 | FALSE |
| TC05000914.hg.1 | ENSG00000145934; | 0.0492262 | 0.1496183 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.0492262 | 0.1496183 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0492262 | 0.1496183 | FALSE |
| TC06002168.hg.1 | ENSG00000164442; | 0.0492262 | 0.1496183 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0492262 | 0.1496183 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0492262 | 0.1496183 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0492262 | 0.1496183 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0492262 | 0.1496183 | FALSE |
| TC15000226.hg.1 | ENSG00000166923; | 0.0492262 | 0.1496183 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0492262 | 0.1496183 | FALSE |
| TC04000173.hg.1 | ENSG00000109610; | 0.0492262 | 0.1496183 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0492262 | 0.1496183 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0492262 | 0.1496183 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0492262 | 0.1496183 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0492262 | 0.1496183 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0492262 | 0.1496183 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0492262 | 0.1496183 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0492262 | 0.1496183 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0492262 | 0.1496183 | FALSE |
| TC15000226.hg.1 | ENSG00000166923; | 0.0492262 | 0.1496183 | FALSE |
| TC10001571.hg.1 | ENSG00000120057; | 0.0492262 | 0.1496183 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0500362 | 0.1503192 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.0514166 | 0.1537643 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0514166 | 0.1537643 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0514166 | 0.1537643 | FALSE |
| TC06004073.hg.1 | ENSG00000204520; | 0.0514166 | 0.1537643 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0514166 | 0.1537643 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0514166 | 0.1537643 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0514633 | 0.1537643 | FALSE |
| TC06001772.hg.1 | ENSG00000146233; | 0.0517217 | 0.1537643 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0517217 | 0.1537643 | FALSE |
| TC05000619.hg.1 | ENSG00000198108; | 0.0517217 | 0.1537643 | FALSE |
| TC05000943.hg.1 | ENSG00000156427; | 0.0517217 | 0.1537643 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0517217 | 0.1537643 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0517217 | 0.1537643 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0517217 | 0.1537643 | FALSE |
| TC06004141.hg.1 | ENSG00000112096; | 0.0517217 | 0.1537643 | FALSE |
| TC08001275.hg.1 | ENSG00000172817; | 0.0517217 | 0.1537643 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0517217 | 0.1537643 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0517217 | 0.1537643 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0517217 | 0.1537643 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0517217 | 0.1537643 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0517217 | 0.1537643 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.0517217 | 0.1537643 | FALSE |
| TC03000631.hg.1 | ENSG00000114023; | 0.0524886 | 0.1550215 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC05000165.hg.1 | ENSG0000079215; | 0.0524886 | 0.1550215 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.0524886 | 0.1550215 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0524886 | 0.1550215 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0546223 | 0.1609902 | FALSE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0546223 | 0.1609902 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0550008 | 0.1619383 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.0555296 | 0.163383 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.0560145 | 0.1646965 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.0571235 | 0.167842 | FALSE |
| TC02000466.hg.1 | ENSG00000159399; | 0.0572274 | 0.1679168 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0572274 | 0.1679168 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0572274 | 0.1679168 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0575457 | 0.1686197 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0577324 | 0.1688567 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0579463 | 0.1688567 | FALSE |
| TC04000173.hg.1 | ENSG00000109610; | 0.0579463 | 0.1688567 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0580585 | 0.1688567 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0580585 | 0.1688567 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0581084 | 0.1688567 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0581394 | 0.1688567 | FALSE |
| TC05000165.hg.1 | ENSG00000079215; | 0.0581394 | 0.1688567 | FALSE |
| TC08001567.hg.1 | ENSG00000170961; | 0.0581394 | 0.1688567 | FALSE |
| TC06002168.hg.1 | ENSG00000164442; | 0.0581394 | 0.1688567 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0581394 | 0.1688567 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.0581394 | 0.1688567 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0581394 | 0.1688567 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.0581394 | 0.1688567 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0581394 | 0.1688567 | FALSE |
| TC11000238.hg.1 | ENSG00000173432; | 0.0581394 | 0.1688567 | FALSE |
| TC01002932.hg.1 | ENSG00000060718; | 0.0581394 | 0.1688567 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0581394 | 0.1688567 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0581394 | 0.1688567 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.058788 | 0.1699333 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0594749 | 0.1705987 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0594749 | 0.1705987 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0594749 | 0.1705987 | FALSE |
| TC05003423.hg.1 | ENSG00000082196; | 0.0594749 | 0.1705987 | FALSE |
| TC06001015.hg.1 | ENSG00000171408; | 0.0599089 | 0.1705987 | FALSE |
| TC08000127.hg.1 | ENSG00000003989; | 0.0599089 | 0.1705987 | FALSE |
| TC07000235.hg.1 | ENSG00000011426; | 0.0599089 | 0.1705987 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0599089 | 0.1705987 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0599089 | 0.1705987 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.0599089 | 0.1705987 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0599089 | 0.1705987 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.0599089 | 0.1705987 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0599089 | 0.1705987 | FALSE |
| TC10002924.hg.1 | ENSG00000187134; | 0.0599089 | 0.1705987 | FALSE |
| TC10002924.hg.1 | ENSG00000187134; | 0.0599089 | 0.1705987 | FALSE |
| TC17000220.hg.1 | ENSG00000108448; | 0.0599089 | 0.1705987 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0599089 | 0.1705987 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.0599089 | 0.1705987 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0599089 | 0.1705987 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0599089 | 0.1705987 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0599089 | 0.1705987 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0599089 | 0.1705987 | FALSE |
| TC02000620.hg.1 | ENSG00000115594; | 0.0599089 | 0.1705987 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.0599089 | 0.1705987 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0599089 | 0.1705987 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC14001188.hg.1; | ENSG00000126778; | 0.0599089 | 0.1705987 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0599089 | 0.1705987 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0599089 | 0.1705987 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0599089 | 0.1705987 | FALSE |
| TC02001750.hg.1 | ENSG00000138061; | 0.0599089 | 0.1705987 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0602535 | 0.1705987 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0607532 | 0.171843 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0607532 | 0.171843 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0613889 | 0.1733608 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.061391 | 0.1733608 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.061534 | 0.1736499 | FALSE |
| TC07001332.hg.1 | ENSG00000164708; | 0.0621875 | 0.1753209 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.0621875 | 0.1753209 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.0635759 | 0.1789993 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0635759 | 0.1789993 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0640945 | 0.1802815 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0641715 | 0.1803795 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.064359 | 0.180788 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0646983 | 0.1808462 | FALSE |
| TC01003211.hg.1; | ENSG00000143387; | 0.0646983 | 0.1808462 | FALSE |
| TC01001188.hg.1; | ENSG00000143369; | 0.0649125 | 0.1808462 | FALSE |
| TC11000198.hg.1; | ENSG00000133816; | 0.0649125 | 0.1808462 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0649125 | 0.1808462 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0649125 | 0.1808462 | FALSE |
| TC02000996.hg.1 | ENSG00000172292; | 0.0649125 | 0.1808462 | FALSE |
| TC07001897.hg.1 | ENSG00000157680; | 0.0649125 | 0.1808462 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0649125 | 0.1808462 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0649125 | 0.1808462 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0649125 | 0.1808462 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.0649125 | 0.1808462 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.06495 | 0.1808462 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.06495 | 0.1808462 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0658989 | 0.1833095 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0662471 | 0.1841207 | FALSE |
| TC01002847.hg.1 | ENSG00000117228; | 0.0662766 | 0.1841207 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0669985 | 0.1859916 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0670394 | 0.1859916 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.0670804 | 0.1859916 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0672634 | 0.1863784 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.0673664 | 0.1864213 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.0673664 | 0.1864213 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0673664 | 0.1864213 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.0674531 | 0.1864213 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.067831 | 0.1871661 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0678319 | 0.1871661 | FALSE |
| TC03000262.hg.1 | ENSG00000160801; | 0.0678319 | 0.1871661 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0689193 | 0.1899829 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.06956 | 0.1916256 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0712968 | 0.1936373 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0712968 | 0.1936373 | FALSE |
| TC11001589.hg.1; | ENSG00000175264; | 0.0712968 | 0.1936373 | FALSE |
| TC15000226.hg.1 | ENSG00000166923; | 0.0712968 | 0.1936373 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.0712968 | 0.1936373 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0712968 | 0.1936373 | FALSE |
| TC14001188.hg.1; | ENSG00000126778; | 0.0712968 | 0.1936373 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0712968 | 0.1936373 | FALSE |
| TC12000601.hg.1 | ENSG00000127314; | 0.0712968 | 0.1936373 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0712968 | 0.1936373 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC02002823.hg.1 | ENSG00000135919; | 0.0712968 | 0.1936373 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.0712968 | 0.1936373 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0712968 | 0.1936373 | FALSE |
| TC06000621.hg.1 | ENSG00000124813; | 0.0712968 | 0.1936373 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.0712968 | 0.1936373 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0712968 | 0.1936373 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0712968 | 0.1936373 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.0712968 | 0.1936373 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.0712968 | 0.1936373 | FALSE |
| TC02000230.hg.1 | ENSG00000150938; | 0.0712968 | 0.1936373 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0712968 | 0.1936373 | FALSE |
| TC17001682.hg.1 | ENSG00000108821; | 0.0712968 | 0.1936373 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0712968 | 0.1936373 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0712968 | 0.1936373 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0712968 | 0.1936373 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.0712968 | 0.1936373 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0712968 | 0.1936373 | FALSE |
| TC10001571.hg.1 | ENSG00000120057; | 0.0712968 | 0.1936373 | FALSE |
| TC0X001186.hg.1 | ENSG00000072133; | 0.0712968 | 0.1936373 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.0716472 | 0.1936373 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0719708 | 0.193989 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0720085 | 0.193989 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0720298 | 0.193989 | FALSE |
| TC02002292.hg.1 | ENSG00000136720; | 0.0720298 | 0.193989 | FALSE |
| TC05001614.hg.1 | ENSG00000175426; | 0.0720298 | 0.193989 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0720298 | 0.193989 | FALSE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0720298 | 0.193989 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.0721398 | 0.193989 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0722421 | 0.1940812 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0722421 | 0.1940812 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0727613 | 0.1950477 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.0727613 | 0.1950477 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.0727613 | 0.1950477 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0727613 | 0.1950477 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0727613 | 0.1950477 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0761067 | 0.2036329 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.0768055 | 0.2053102 | FALSE |
| TC03000631.hg.1 | ENSG00000114023; | 0.0768055 | 0.2053102 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0772869 | 0.2062751 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0772869 | 0.2062751 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0772869 | 0.2062751 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0774781 | 0.2064271 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0775037 | 0.2064271 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0775367 | 0.2064271 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0783688 | 0.2083831 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.0783688 | 0.2083831 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0783688 | 0.2083831 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0794791 | 0.210681 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0794791 | 0.210681 | FALSE |
| TC01003497.hg.1 | ENSG00000117479; | 0.0794791 | 0.210681 | FALSE |
| TC09001335.hg.1 | ENSG00000127083; | 0.0794791 | 0.210681 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0794791 | 0.210681 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0794791 | 0.210681 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0794791 | 0.210681 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0803784 | 0.2125385 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.0806954 | 0.2132452 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0808688 | 0.2135714 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0815207 | 0.2151604 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01002669.hg.1 | ENSG00000157193; | 0.0819034 | 0.2160374 | FALSE |
| TC12000227.hg.1 | ENSG00000172572; | 0.0833149 | 0.2174338 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0833149 | 0.2174338 | FALSE |
| TC06000608.hg.1 | ENSG00000112715; | 0.0833149 | 0.2174338 | FALSE |
| TC07001883.hg.1 | ENSG00000085662; | 0.0833149 | 0.2174338 | FALSE |
| TC06001015.hg.1 | ENSG00000171408; | 0.0833149 | 0.2174338 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0833149 | 0.2174338 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.0833149 | 0.2174338 | FALSE |
| TC05000943.hg.1 | ENSG00000156427; | 0.0833149 | 0.2174338 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0833149 | 0.2174338 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.0833149 | 0.2174338 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0833149 | 0.2174338 | FALSE |
| TC14001443.hg.1 | ENSG00000140092; | 0.0833149 | 0.2174338 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0833149 | 0.2174338 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0833149 | 0.2174338 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.0833149 | 0.2174338 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.0833149 | 0.2174338 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.0833149 | 0.2174338 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0833149 | 0.2174338 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0833149 | 0.2174338 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0833149 | 0.2174338 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.0833149 | 0.2174338 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.0833149 | 0.2174338 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0833149 | 0.2174338 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.0833149 | 0.2174338 | FALSE |
| TC08000845.hg.1 | ENSG00000187786; | 0.0833149 | 0.2174338 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.0833149 | 0.2174338 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0833149 | 0.2174338 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0833149 | 0.2174338 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0833149 | 0.2174338 | FALSE |
| TC04000699.hg.1 | ENSG00000109458; | 0.0833149 | 0.2174338 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.0833149 | 0.2174338 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0833149 | 0.2174338 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0841851 | 0.2174338 | FALSE |
| TC05000054.hg.1 | ENSG00000078295; | 0.0841851 | 0.2174338 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0841851 | 0.2174338 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0841851 | 0.2174338 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.0845295 | 0.2179749 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0845728 | 0.2179749 | FALSE |
| TC01000394.hg.1 | ENSG00000159023; | 0.0859337 | 0.2213491 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0863863 | 0.2223812 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0872476 | 0.223858 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0872476 | 0.223858 | FALSE |
| TC11000238.hg.1 | ENSG00000173432; | 0.0872476 | 0.223858 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.0872476 | 0.223858 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.0872476 | 0.223858 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0872476 | 0.223858 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.0872476 | 0.223858 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0872476 | 0.223858 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.0872476 | 0.223858 | FALSE |
| TC04001245.hg.1 | ENSG00000145242; | 0.0872476 | 0.223858 | FALSE |
| TC01000115.hg.1 | ENSG00000171621; | 0.0877371 | 0.2243744 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0887969 | 0.2269489 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0900537 | 0.2300238 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0902062 | 0.2301386 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.0902062 | 0.2301386 | FALSE |
| TC06000120.hg.1 | ENSG00000137393; | 0.0902062 | 0.2301386 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0906208 | 0.2309211 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03000917.hg.1 | ENSG00000136603; | 0.0914005 | 0.2327004 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.0914005 | 0.2327004 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0922479 | 0.2346485 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.0929 | 0.2360878 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.0929241 | 0.2360878 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0931797 | 0.2365268 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.0931797 | 0.2365268 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0933652 | 0.2367169 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.0933652 | 0.2367169 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0943156 | 0.2389143 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.0949278 | 0.2399879 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.0953221 | 0.2399879 | FALSE |
| TC05000165.hg.1 | ENSG00000079215; | 0.0953221 | 0.2399879 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.0953221 | 0.2399879 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0953221 | 0.2399879 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.0953221 | 0.2399879 | FALSE |
| TC05000165.hg.1 | ENSG00000079215; | 0.0953221 | 0.2399879 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.0953221 | 0.2399879 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.0953221 | 0.2399879 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.0953308 | 0.2399879 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.0953308 | 0.2399879 | FALSE |
| TC02002049.hg.1 | ENSG00000115525; | 0.0958932 | 0.2399879 | FALSE |
| TC01000734.hg.1 | ENSG00000118473; | 0.0958932 | 0.2399879 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.0958932 | 0.2399879 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0958932 | 0.2399879 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0958932 | 0.2399879 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.0958932 | 0.2399879 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.0958932 | 0.2399879 | FALSE |
| TC14000067.hg.1 | ENSG00000181784; | 0.0958932 | 0.2399879 | FALSE |
| TC04000503.hg.1 | ENSG00000138696; | 0.0958932 | 0.2399879 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0958932 | 0.2399879 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.0958932 | 0.2399879 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0958932 | 0.2399879 | FALSE |
| TC02001206.hg.1 | ENSG00000118257; | 0.0958932 | 0.2399879 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.0958932 | 0.2399879 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.0958932 | 0.2399879 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.0958932 | 0.2399879 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.096394 | 0.2399879 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.0964274 | 0.2399879 | FALSE |
| TC05001614.hg.1 | ENSG00000175426; | 0.0964274 | 0.2399879 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.0964274 | 0.2399879 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.0965614 | 0.2399879 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.0965614 | 0.2399879 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.097677 | 0.2424792 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.097677 | 0.2424792 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.0980453 | 0.2431819 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1000378 | 0.2479801 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1002618 | 0.2483915 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.1006837 | 0.2492206 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.1006837 | 0.2492206 | FALSE |
| TC08000845.hg.1 | ENSG00000187786; | 0.1018667 | 0.2518576 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.1018667 | 0.2518576 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.1020951 | 0.2522039 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1022877 | 0.2525338 | FALSE |
| TC01001907.hg.1 | ENSG00000143641; | 0.1028441 | 0.2535419 | FALSE |
| TC05001110.hg.1 | ENSG00000153395; | 0.1028441 | 0.2535419 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.1028441 | 0.2535419 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.1028441 | 0.2535419 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC02000762.hg.1 | ENSG00000163083; | 0.1036887 | 0.2545247 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.1036887 | 0.2545247 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.1036887 | 0.2545247 | FALSE |
| TC04000503.hg.1 | ENSG00000138696; | 0.1036887 | 0.2545247 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.1036887 | 0.2545247 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.1036887 | 0.2545247 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.1036887 | 0.2545247 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1036887 | 0.2545247 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.1036887 | 0.2545247 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.1036887 | 0.2545247 | FALSE |
| TC02001437.hg.1 | ENSG00000144476; | 0.1036887 | 0.2545247 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1044181 | 0.2554364 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.104528 | 0.2555593 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.1057285 | 0.2583468 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.106341 | 0.2596952 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.1070104 | 0.261181 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.1072746 | 0.2612542 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.1073142 | 0.2612542 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.1073142 | 0.2612542 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1077213 | 0.2612542 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.1077542 | 0.2612542 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.1077542 | 0.2612542 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1077891 | 0.2612542 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1086661 | 0.2612542 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1086661 | 0.2612542 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.1089665 | 0.2612542 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.1089665 | 0.2612542 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1089665 | 0.2612542 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.1089665 | 0.2612542 | FALSE |
| TC01003497.hg.1 | ENSG00000117479; | 0.1089665 | 0.2612542 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1089665 | 0.2612542 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.1089665 | 0.2612542 | FALSE |
| TC14000951.hg.1 | ENSG00000092068; | 0.1089665 | 0.2612542 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.1089665 | 0.2612542 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.1089665 | 0.2612542 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.1089665 | 0.2612542 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.1089665 | 0.2612542 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.1089665 | 0.2612542 | FALSE |
| TC01002932.hg.1 | ENSG00000060718; | 0.1089665 | 0.2612542 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.1089665 | 0.2612542 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.1089665 | 0.2612542 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.1089665 | 0.2612542 | FALSE |
| TC02002480.hg.1 | ENSG00000078098; | 0.1089665 | 0.2612542 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.1089665 | 0.2612542 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.1089665 | 0.2612542 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1089665 | 0.2612542 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.1089665 | 0.2612542 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.1089665 | 0.2612542 | FALSE |
| TC12001890.hg.1 | ENSG00000017427; | 0.1089665 | 0.2612542 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.1089665 | 0.2612542 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.1089665 | 0.2612542 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.1089665 | 0.2612542 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.1089665 | 0.2612542 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1094509 | 0.2612542 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.1094509 | 0.2612542 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.1094509 | 0.2612542 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.1094509 | 0.2612542 | FALSE |
| TC01002932.hg.1 | ENSG00000060718; | 0.1122462 | 0.2673143 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC02000891.hg.1 | ENSG00000150540; | 0.1123332 | 0.2673143 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.1123332 | 0.2673143 | FALSE |
| TC12001890.hg.1 | ENSG00000017427; | 0.1123332 | 0.2673143 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1123332 | 0.2673143 | FALSE |
| TC04000503.hg.1 | ENSG00000138696; | 0.1123332 | 0.2673143 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.1129013 | 0.2681445 | FALSE |
| TC01000394.hg.1 | ENSG00000159023; | 0.1129013 | 0.2681445 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.1162426 | 0.2758506 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.1167865 | 0.2769877 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.1186253 | 0.2810375 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.1186253 | 0.2810375 | FALSE |
| TC08000845.hg.1 | ENSG00000187786; | 0.1186253 | 0.2810375 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1187908 | 0.2811184 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.120739 | 0.2855711 | FALSE |
| TC10000811.hg.1 | ENSG00000150594; | 0.1212413 | 0.2862846 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1212413 | 0.2862846 | FALSE |
| TC09001335.hg.1 | ENSG00000127083; | 0.1212413 | 0.2862846 | FALSE |
| TC07000220.hg.1 | ENSG00000164619; | 0.1212413 | 0.2862846 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.1212413 | 0.2862846 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1218367 | 0.2867433 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1219517 | 0.2867433 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1219517 | 0.2867433 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.1219517 | 0.2867433 | FALSE |
| TC07001559.hg.1 | ENSG00000075223; | 0.1224738 | 0.2867433 | FALSE |
| TC09000358.hg.1 | ENSG00000135069; | 0.1224738 | 0.2867433 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1224738 | 0.2867433 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1224738 | 0.2867433 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1224738 | 0.2867433 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.1224738 | 0.2867433 | FALSE |
| TC17001462.hg.1 | ENSG00000131747; | 0.1224738 | 0.2867433 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1224738 | 0.2867433 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.1224738 | 0.2867433 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.1224738 | 0.2867433 | FALSE |
| TC03001527.hg.1 | ENSG00000163638; | 0.1224738 | 0.2867433 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1224738 | 0.2867433 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.1224738 | 0.2867433 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1224738 | 0.2867433 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.1224738 | 0.2867433 | FALSE |
| TC10000406.hg.1 | ENSG00000138336; | 0.1224738 | 0.2867433 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.1224738 | 0.2867433 | FALSE |
| TC07001618.hg.1 | ENSG00000004799; | 0.1224738 | 0.2867433 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.1232134 | 0.2869059 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1232134 | 0.2869059 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.1244833 | 0.2896267 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1265574 | 0.2942924 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1269929 | 0.2951447 | FALSE |
| TC03000577.hg.1 | ENSG00000144857; | 0.1303574 | 0.3013501 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1303574 | 0.3013501 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1303574 | 0.3013501 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.1303574 | 0.3013501 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1303984 | 0.3013501 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1303984 | 0.3013501 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1303984 | 0.3013501 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.1303984 | 0.3013501 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1303984 | 0.3013501 | FALSE |
| TC06000779.hg.1 | ENSG00000135318; | 0.1303984 | 0.3013501 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.1304724 | 0.3013501 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.1304724 | 0.3013501 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC01001473.hg.1 | ENSG00000143153; | 0.1313122 | 0.3030446 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.1322532 | 0.3049695 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.1322532 | 0.3049695 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.133038 | 0.3063719 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1330403 | 0.3063719 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1341074 | 0.3086634 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947; | 0.1363581 | 0.3113626 | FALSE |
| TC07000525.hg.1 | ENSG00000008277; | 0.1363581 | 0.3113626 | FALSE |
| TC07000525.hg.1 | ENSG00000008277; | 0.1363581 | 0.3113626 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1363581 | 0.3113626 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.1363581 | 0.3113626 | FALSE |
| TC10001663.hg.1 | ENSG00000119927; | 0.1363581 | 0.3113626 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.1363581 | 0.3113626 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1363581 | 0.3113626 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.1363581 | 0.3113626 | FALSE |
| TC05001590.hg.1 | ENSG00000113369; | 0.1363581 | 0.3113626 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1363581 | 0.3113626 | FALSE |
| TC15000226.hg.1 | ENSG00000166923; | 0.1363581 | 0.3113626 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1363581 | 0.3113626 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.1363581 | 0.3113626 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.1363581 | 0.3113626 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.1363581 | 0.3113626 | FALSE |
| TC04000173.hg.1 | ENSG00000109610; | 0.1365894 | 0.3113626 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.1365894 | 0.3113626 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.1365894 | 0.3113626 | FALSE |
| TC01002284.hg.1 | ENSG00000117122; | 0.137306 | 0.3126632 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.1376686 | 0.3129895 | FALSE |
| TC03002106.hg.1 | ENSG00000090530; | 0.1376686 | 0.3129895 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.1376686 | 0.3129895 | FALSE |
| TC01006336.hg.1 | ENSG00000162706; | 0.1376686 | 0.3129895 | FALSE |
| TC02000466.hg.1 | ENSG00000159399; | 0.1376686 | 0.3129895 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1397897 | 0.3170541 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1397897 | 0.3170541 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.1397897 | 0.3170541 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.1397897 | 0.3170541 | FALSE |
| TC01001907.hg.1 | ENSG00000143641; | 0.1400262 | 0.3171705 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.1408899 | 0.318621 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.1408899 | 0.318621 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1408899 | 0.318621 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.1408899 | 0.318621 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1408899 | 0.318621 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1418698 | 0.3203294 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1421771 | 0.320854 | FALSE |
| TC01003791.hg.1 | ENSG00000143473; | 0.1424096 | 0.3211248 | FALSE |
| TC01003791.hg.1 | ENSG00000143473; | 0.1424096 | 0.3211248 | FALSE |
| TC04000469.hg.1 | ENSG00000163629; | 0.1430784 | 0.3222934 | FALSE |
| TC04000469.hg.1 | ENSG00000163629; | 0.1430784 | 0.3222934 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.143895 | 0.3238771 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.1448698 | 0.3258999 | FALSE |
| TC02000996.hg.1 | ENSG00000172292; | 0.1451406 | 0.3259953 | FALSE |
| TC04001509.hg.1 | ENSG00000173376; | 0.1451406 | 0.3259953 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.1451406 | 0.3259953 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.1451406 | 0.3259953 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.1451406 | 0.3259953 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.1486392 | 0.3330774 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.1491935 | 0.3330774 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.1491935 | 0.3330774 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.1492091 | 0.3330774 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC06000087.hg.1 | ENSG00000078401; | 0.1494005 | 0.3330774 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.1494005 | 0.3330774 | FALSE |
| TC06004141.hg.1 | ENSG00000112096; | 0.1494005 | 0.3330774 | FALSE |
| TC05003439.hg.1 | ENSG00000213949; | 0.1494005 | 0.3330774 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.1494005 | 0.3330774 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.1494005 | 0.3330774 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.1494005 | 0.3330774 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.1494005 | 0.3330774 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.149715 | 0.3330774 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.1498143 | 0.3330774 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1505667 | 0.3330774 | FALSE |
| TC02001139.hg.1 | ENSG00000196950; | 0.1505667 | 0.3330774 | FALSE |
| TC02000891.hg.1 | ENSG00000150540; | 0.1505667 | 0.3330774 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.1505667 | 0.3330774 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.1505667 | 0.3330774 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1505667 | 0.3330774 | FALSE |
| TC07001630.hg.1 | ENSG00000070669; | 0.1505667 | 0.3330774 | FALSE |
| TC09000347.hg.1 | ENSG00000099139; | 0.1505667 | 0.3330774 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.1505667 | 0.3330774 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.1505667 | 0.3330774 | FALSE |
| TC07000328.hg.1 | ENSG00000146648; | 0.1505667 | 0.3330774 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.1505667 | 0.3330774 | FALSE |
| TC04000173.hg.1 | ENSG00000109610; | 0.1505667 | 0.3330774 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.1505667 | 0.3330774 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.1505667 | 0.3330774 | FALSE |
| TC02001963.hg.1 | ENSG00000163235; | 0.1505667 | 0.3330774 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.1508613 | 0.3330774 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.1527671 | 0.3371114 | FALSE |
| TC01000115.hg.1 | ENSG00000171621; | 0.1537829 | 0.339178 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1540255 | 0.3395383 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.1559676 | 0.3434657 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.1559676 | 0.3434657 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.1559676 | 0.3434657 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.1559676 | 0.3434657 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.1572475 | 0.3459282 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.159216 | 0.3498993 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.159216 | 0.3498993 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.159216 | 0.3498993 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.1600465 | 0.3512735 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.1600465 | 0.3512735 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.1603756 | 0.3517254 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.1605415 | 0.3518188 | FALSE |
| TC07001883.hg.1 | ENSG00000085662; | 0.1605415 | 0.3518188 | FALSE |
| TC01002932.hg.1 | ENSG00000060718; | 0.1611524 | 0.3528867 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1650503 | 0.3583992 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.1650503 | 0.3583992 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.1650503 | 0.3583992 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1650503 | 0.3583992 | FALSE |
| TC07000525.hg.1 | ENSG00000008277; | 0.1650503 | 0.3583992 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1650503 | 0.3583992 | FALSE |
| TC10000811.hg.1 | ENSG00000150594; | 0.1650503 | 0.3583992 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1650503 | 0.3583992 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.1650503 | 0.3583992 | FALSE |
| TC10000406.hg.1 | ENSG00000138336; | 0.1650503 | 0.3583992 | FALSE |
| TC04001169.hg.1 | ENSG00000145244; | 0.1650503 | 0.3583992 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.1650503 | 0.3583992 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1650503 | 0.3583992 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.1650503 | 0.3583992 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.1650503 | 0.3583992 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC17000220.hg.1 | ENSG00000108448; | 0.1650503 | 0.3583992 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.1650503 | 0.3583992 | FALSE |
| TC07001559.hg.1 | ENSG00000075223; | 0.1650503 | 0.3583992 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.1650503 | 0.3583992 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.1650503 | 0.3583992 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.1650503 | 0.3583992 | FALSE |
| TC14001188.hg.1; | ENSG00000126778; | 0.1650503 | 0.3583992 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.1650503 | 0.3583992 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.1650503 | 0.3583992 | FALSE |
| TC04000469.hg.1 | ENSG00000163629; | 0.1658883 | 0.3583992 | FALSE |
| TC04000469.hg.1 | ENSG00000163629; | 0.1658883 | 0.3583992 | FALSE |
| TC04000469.hg.1 | ENSG00000163629; | 0.1658883 | 0.3583992 | FALSE |
| TC02000891.hg.1 | ENSG00000150540; | 0.1658883 | 0.3583992 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.166414 | 0.3589914 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.166414 | 0.3589914 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.168457 | 0.3631241 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.1692217 | 0.3641308 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.1692217 | 0.3641308 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.1692217 | 0.3641308 | FALSE |
| TC01002932.hg.1 | ENSG00000060718; | 0.1692217 | 0.3641308 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.1692217 | 0.3641308 | FALSE |
| TC04000729.hg.1 | ENSG00000151617; | 0.1692217 | 0.3641308 | FALSE |
| TC01003697.hg.1 | ENSG00000163431; | 0.1718617 | 0.3690694 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.1718617 | 0.3690694 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.1726373 | 0.3704563 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1749577 | 0.3706089 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.1764434 | 0.3706089 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.176507 | 0.3706089 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.176507 | 0.3706089 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.176507 | 0.3706089 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.1765376 | 0.3706089 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.1767644 | 0.3706089 | FALSE |
| TC03000248.hg.1 | ENSG00000144791; | 0.1778365 | 0.3706089 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.1778365 | 0.3706089 | FALSE |
| TC09000347.hg.1 | ENSG00000099139; | 0.179403 | 0.3706089 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.179403 | 0.3706089 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.179403 | 0.3706089 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.179403 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.179403 | 0.3706089 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.1797629 | 0.3706089 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.1797629 | 0.3706089 | FALSE |
| TC01003605.hg.1 | ENSG00000135821; | 0.1797629 | 0.3706089 | FALSE |
| TC01003605.hg.1 | ENSG00000135821; | 0.1797629 | 0.3706089 | FALSE |
| TC05001519.hg.1 | ENSG00000113273; | 0.1797629 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1797629 | 0.3706089 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.1797629 | 0.3706089 | FALSE |
| TC10002924.hg.1 | ENSG00000187134; | 0.1797629 | 0.3706089 | FALSE |
| TC13001719.hg.1 | ENSG00000150907; | 0.1797629 | 0.3706089 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.1797629 | 0.3706089 | FALSE |
| TC07001552.hg.1 | ENSG00000187391; | 0.1797629 | 0.3706089 | FALSE |
| TC06000608.hg.1 | ENSG00000112715; | 0.1797629 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.1797629 | 0.3706089 | FALSE |
| TC08000127.hg.1 | ENSG00000003989; | 0.1797629 | 0.3706089 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.1797629 | 0.3706089 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.1797629 | 0.3706089 | FALSE |
| TC06004141.hg.1 | ENSG00000112096; | 0.1797629 | 0.3706089 | FALSE |
| TC07001552.hg.1 | ENSG00000187391; | 0.1797629 | 0.3706089 | FALSE |
| TC10001711.hg.1; | ENSG00000066468; | 0.1797629 | 0.3706089 | FALSE |

| | | | | |
|-----------------|-----------------|-----------|-----------|-------|
| TC03000248.hg.1 | ENSG00000144791 | 0.1797629 | 0.3706089 | FALSE |
| TC13001719.hg.1 | ENSG00000150907 | 0.1797629 | 0.3706089 | FALSE |
| TC01002578.hg.1 | ENSG00000117394 | 0.1797629 | 0.3706089 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.1797629 | 0.3706089 | FALSE |
| TC01000873.hg.1 | ENSG00000143036 | 0.1811029 | 0.3706089 | FALSE |
| TC01002669.hg.1 | ENSG00000157193 | 0.1826968 | 0.3706089 | FALSE |
| TC01002706.hg.1 | ENSG00000184292 | 0.1839378 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.1839378 | 0.3706089 | FALSE |
| TC02000762.hg.1 | ENSG00000163083 | 0.1846847 | 0.3706089 | FALSE |
| TC01000904.hg.1 | ENSG00000162692 | 0.1847822 | 0.3706089 | FALSE |
| TC04000503.hg.1 | ENSG00000138696 | 0.1875799 | 0.3706089 | FALSE |
| TC12001587.hg.1 | ENSG00000123342 | 0.1875799 | 0.3706089 | FALSE |
| TC02000432.hg.1 | ENSG00000135636 | 0.1875799 | 0.3706089 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.1875799 | 0.3706089 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.1875799 | 0.3706089 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.1875799 | 0.3706089 | FALSE |
| TC11002366.hg.1 | ENSG00000076706 | 0.1875799 | 0.3706089 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.1875799 | 0.3706089 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.1875799 | 0.3706089 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.1875799 | 0.3706089 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.1875799 | 0.3706089 | FALSE |
| TC19001293.hg.1 | ENSG00000105664 | 0.1875799 | 0.3706089 | FALSE |
| TC10000053.hg.1 | ENSG00000170525 | 0.1875799 | 0.3706089 | FALSE |
| TC14000819.hg.1 | ENSG00000185100 | 0.1875799 | 0.3706089 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.1875799 | 0.3706089 | FALSE |
| TC09000560.hg.1 | ENSG00000148154 | 0.1875799 | 0.3706089 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.1875799 | 0.3706089 | FALSE |
| TC12002122.hg.1 | ENSG00000139370 | 0.1875799 | 0.3706089 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.1875799 | 0.3706089 | FALSE |
| TC10000565.hg.1 | ENSG00000108175 | 0.1875799 | 0.3706089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.1875799 | 0.3706089 | FALSE |
| TC14000353.hg.1 | ENSG00000165617 | 0.1875799 | 0.3706089 | FALSE |
| TC20000368.hg.1 | ENSG00000064655 | 0.1875799 | 0.3706089 | FALSE |
| TC02002606.hg.1 | ENSG00000003436 | 0.1875799 | 0.3706089 | FALSE |
| TC01002195.hg.1 | ENSG00000116649 | 0.1875799 | 0.3706089 | FALSE |
| TC03001466.hg.1 | ENSG00000163931 | 0.1875799 | 0.3706089 | FALSE |
| TC06000779.hg.1 | ENSG00000135318 | 0.1875799 | 0.3706089 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.1875799 | 0.3706089 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.1875799 | 0.3706089 | FALSE |
| TC02002605.hg.1 | ENSG00000064989 | 0.1875799 | 0.3706089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.1875799 | 0.3706089 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.1875799 | 0.3706089 | FALSE |
| TC03001255.hg.1 | ENSG00000033867 | 0.1875799 | 0.3706089 | FALSE |
| TC05000840.hg.1 | ENSG00000123643 | 0.1875799 | 0.3706089 | FALSE |
| TC09000535.hg.1 | ENSG00000070214 | 0.1875799 | 0.3706089 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.1875799 | 0.3706089 | FALSE |
| TC09000535.hg.1 | ENSG00000070214 | 0.1875799 | 0.3706089 | FALSE |
| TC18000164.hg.1 | ENSG00000141469 | 0.1875799 | 0.3706089 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.1875799 | 0.3706089 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.1875799 | 0.3706089 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.1875799 | 0.3706089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.1875799 | 0.3706089 | FALSE |
| TC14001188.hg.1 | ENSG00000126778 | 0.1875799 | 0.3706089 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.1875799 | 0.3706089 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.1875799 | 0.3706089 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.1875799 | 0.3706089 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.1875799 | 0.3706089 | FALSE |
| TC01000904.hg.1 | ENSG00000162692 | 0.1875799 | 0.3706089 | FALSE |

| | | | | |
|-----------------|-----------------|-----------|-----------|-------|
| TC05000840.hg.1 | ENSG00000123643 | 0.1875799 | 0.3706089 | FALSE |
| TC11000198.hg.1 | ENSG00000133816 | 0.1875799 | 0.3706089 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.1875799 | 0.3706089 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.1875799 | 0.3706089 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.1875799 | 0.3706089 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.1875799 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.1875799 | 0.3706089 | FALSE |
| TC07001630.hg.1 | ENSG00000070669 | 0.1875799 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.1875799 | 0.3706089 | FALSE |
| TC10000406.hg.1 | ENSG00000138336 | 0.1875799 | 0.3706089 | FALSE |
| TC06000976.hg.1 | ENSG00000196569 | 0.1875799 | 0.3706089 | FALSE |
| TC02000762.hg.1 | ENSG00000163083 | 0.1875799 | 0.3706089 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.1875799 | 0.3706089 | FALSE |
| TC22000019.hg.1 | ENSG00000177663 | 0.1875799 | 0.3706089 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.1875799 | 0.3706089 | FALSE |
| TC17001682.hg.1 | ENSG00000108821 | 0.1875799 | 0.3706089 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.1875799 | 0.3706089 | FALSE |
| TC13000147.hg.1 | ENSG00000102760 | 0.1875799 | 0.3706089 | FALSE |
| TC02002605.hg.1 | ENSG00000064989 | 0.1875799 | 0.3706089 | FALSE |
| TC08000149.hg.1 | ENSG00000175445 | 0.1875799 | 0.3706089 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.1875799 | 0.3706089 | FALSE |
| TC05003423.hg.1 | ENSG00000082196 | 0.1875799 | 0.3706089 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.1875799 | 0.3706089 | FALSE |
| TC22001477.hg.1 | ENSG00000100344 | 0.1875799 | 0.3706089 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.1875799 | 0.3706089 | FALSE |
| TC01003497.hg.1 | ENSG00000117479 | 0.1875799 | 0.3706089 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.1875799 | 0.3706089 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.1875799 | 0.3706089 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.1875799 | 0.3706089 | FALSE |
| TC02001100.hg.1 | ENSG00000138448 | 0.1875799 | 0.3706089 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.1875799 | 0.3706089 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.1875799 | 0.3706089 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.1875799 | 0.3706089 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.1875799 | 0.3706089 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.1875799 | 0.3706089 | FALSE |
| TC15000386.hg.1 | ENSG00000140285 | 0.1875799 | 0.3706089 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.1875799 | 0.3706089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.1875799 | 0.3706089 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.1875799 | 0.3706089 | FALSE |
| TC15000386.hg.1 | ENSG00000140285 | 0.1875799 | 0.3706089 | FALSE |
| TC15000386.hg.1 | ENSG00000140285 | 0.1875799 | 0.3706089 | FALSE |
| TC05001519.hg.1 | ENSG00000113273 | 0.1875799 | 0.3706089 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.1875799 | 0.3706089 | FALSE |
| TC15000226.hg.1 | ENSG00000166923 | 0.1875799 | 0.3706089 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.1875799 | 0.3706089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.1875799 | 0.3706089 | FALSE |
| TC17000158.hg.1 | ENSG00000141052 | 0.1875799 | 0.3706089 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.1875799 | 0.3706089 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.1875799 | 0.3706089 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.1875799 | 0.3706089 | FALSE |
| TC20000833.hg.1 | ENSG00000198959 | 0.1875799 | 0.3706089 | FALSE |
| TC20000833.hg.1 | ENSG00000198959 | 0.1875799 | 0.3706089 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.1875799 | 0.3706089 | FALSE |
| TC19000191.hg.1 | ENSG00000130164 | 0.1875799 | 0.3706089 | FALSE |
| TC01000904.hg.1 | ENSG00000162692 | 0.1875799 | 0.3706089 | FALSE |
| TC05001933.hg.1 | ENSG00000113721 | 0.1875799 | 0.3706089 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.1875799 | 0.3706089 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.1875799 | 0.3706089 | FALSE |

| | | | | |
|-----------------|-----------------|-----------|-----------|-------|
| TC14000353.hg.1 | ENSG00000165617 | 0.1875799 | 0.3706089 | FALSE |
| TC05001289.hg.1 | ENSG00000113594 | 0.1875799 | 0.3706089 | FALSE |
| TC08001567.hg.1 | ENSG00000170961 | 0.1875799 | 0.3706089 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.1875799 | 0.3706089 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.1875799 | 0.3706089 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.1875799 | 0.3706089 | FALSE |
| TC14000306.hg.1 | ENSG00000125384 | 0.1875799 | 0.3706089 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.1875799 | 0.3706089 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.1875799 | 0.3706089 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.1875799 | 0.3706089 | FALSE |
| TC13001719.hg.1 | ENSG00000150907 | 0.1875799 | 0.3706089 | FALSE |
| TC10001498.hg.1 | ENSG00000107796 | 0.1875799 | 0.3706089 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.1875799 | 0.3706089 | FALSE |
| TC10001498.hg.1 | ENSG00000107796 | 0.1875799 | 0.3706089 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.1875799 | 0.3706089 | FALSE |
| TC14001188.hg.1 | ENSG00000126778 | 0.1875799 | 0.3706089 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.1875799 | 0.3706089 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.1875799 | 0.3706089 | FALSE |
| TC03000846.hg.1 | ENSG00000196549 | 0.1875799 | 0.3706089 | FALSE |
| TC08001659.hg.1 | ENSG00000104419 | 0.1875799 | 0.3706089 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.1875799 | 0.3706089 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.1875799 | 0.3706089 | FALSE |
| TC11002366.hg.1 | ENSG00000076706 | 0.1875799 | 0.3706089 | FALSE |
| TC01002706.hg.1 | ENSG00000184292 | 0.1875799 | 0.3706089 | FALSE |
| TC14000353.hg.1 | ENSG00000165617 | 0.1875799 | 0.3706089 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.1875799 | 0.3706089 | FALSE |
| TC09000535.hg.1 | ENSG00000070214 | 0.1875799 | 0.3706089 | FALSE |
| TC08001659.hg.1 | ENSG00000104419 | 0.1875799 | 0.3706089 | FALSE |
| TC06002168.hg.1 | ENSG00000164442 | 0.1875799 | 0.3706089 | FALSE |
| TC13000147.hg.1 | ENSG00000102760 | 0.1875799 | 0.3706089 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.1875799 | 0.3706089 | FALSE |
| TC13000147.hg.1 | ENSG00000102760 | 0.1875799 | 0.3706089 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.1875799 | 0.3706089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.1875799 | 0.3706089 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.1875799 | 0.3706089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.1875799 | 0.3706089 | FALSE |
| TC09001058.hg.1 | ENSG00000198467 | 0.1875799 | 0.3706089 | FALSE |
| TC15001761.hg.1 | ENSG00000103942 | 0.1875799 | 0.3706089 | FALSE |
| TC01001258.hg.1 | ENSG00000160678 | 0.1875799 | 0.3706089 | FALSE |
| TC17001886.hg.1 | ENSG00000132471 | 0.1875799 | 0.3706089 | FALSE |
| TC13000109.hg.1 | ENSG00000073910 | 0.1875799 | 0.3706089 | FALSE |
| TC06001332.hg.1 | ENSG00000168405 | 0.1875799 | 0.3706089 | FALSE |
| TC01000115.hg.1 | ENSG00000171621 | 0.1893732 | 0.3706089 | FALSE |
| TC01000115.hg.1 | ENSG00000171621 | 0.1893732 | 0.3706089 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.1897456 | 0.3707443 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.1897456 | 0.3707443 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.1897456 | 0.3707443 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.1897456 | 0.3707443 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.1897456 | 0.3707443 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.1901057 | 0.37094 | FALSE |
| TC02000082.hg.1 | ENSG00000071575 | 0.1905157 | 0.3715707 | FALSE |
| TC01000904.hg.1 | ENSG00000162692 | 0.1926417 | 0.375546 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.1929831 | 0.3760403 | FALSE |
| TC03001362.hg.1 | ENSG00000160808 | 0.1946622 | 0.3772516 | FALSE |
| TC06000728.hg.1 | ENSG00000185760 | 0.1946622 | 0.3772516 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.1946622 | 0.3772516 | FALSE |
| TC19001250.hg.1 | ENSG00000074181 | 0.1946622 | 0.3772516 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.1946622 | 0.3772516 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC02001100.hg.1; | ENSG00000138448; | 0.1946622 | 0.3772516 | FALSE |
| TC02002808.hg.1; | ENSG00000116106; | 0.1946622 | 0.3772516 | FALSE |
| TC02000041.hg.1; | ENSG00000115738; | 0.1946622 | 0.3772516 | FALSE |
| TC03002146.hg.1; | ENSG00000189058; | 0.1946622 | 0.3772516 | FALSE |
| TC08001275.hg.1; | ENSG00000172817; | 0.1946622 | 0.3772516 | FALSE |
| TC01003638.hg.1; | ENSG00000073756; | 0.1946622 | 0.3772516 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.1946622 | 0.3772516 | FALSE |
| TC04001169.hg.1; | ENSG00000145244; | 0.1946622 | 0.3772516 | FALSE |
| TC07000137.hg.1; | ENSG00000136244; | 0.1946622 | 0.3772516 | FALSE |
| TC07001897.hg.1; | ENSG00000157680; | 0.1946622 | 0.3772516 | FALSE |
| TC07000137.hg.1; | ENSG00000136244; | 0.1946622 | 0.3772516 | FALSE |
| TC11000707.hg.1; | ENSG00000162337; | 0.1946622 | 0.3772516 | FALSE |
| TC17000220.hg.1; | ENSG00000108448; | 0.1946622 | 0.3772516 | FALSE |
| TC01003638.hg.1; | ENSG00000073756; | 0.1946622 | 0.3772516 | FALSE |
| TC10001711.hg.1; | ENSG00000066468; | 0.1946622 | 0.3772516 | FALSE |
| TC08001062.hg.1; | ENSG00000159167; | 0.1946622 | 0.3772516 | FALSE |
| TC07000328.hg.1; | ENSG00000146648; | 0.1946622 | 0.3772516 | FALSE |
| TC10000438.hg.1; | ENSG00000107731; | 0.1946622 | 0.3772516 | FALSE |
| TC04000408.hg.1; | ENSG00000169429; | 0.1963821 | 0.3785285 | FALSE |
| TC06001027.hg.1; | ENSG00000118503; | 0.1968152 | 0.379022 | FALSE |
| TC04000408.hg.1; | ENSG00000169429; | 0.1968152 | 0.379022 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.1968152 | 0.379022 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.1971093 | 0.3792472 | FALSE |
| TC05000054.hg.1; | ENSG00000078295; | 0.2002352 | 0.3846564 | FALSE |
| TC04001084.hg.1; | ENSG00000109819; | 0.2002352 | 0.3846564 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.2002352 | 0.3846564 | FALSE |
| TC03002146.hg.1; | ENSG00000189058; | 0.2002352 | 0.3846564 | FALSE |
| TC10001711.hg.1; | ENSG00000066468; | 0.2002352 | 0.3846564 | FALSE |
| TC02000270.hg.1; | ENSG00000152527; | 0.2002352 | 0.3846564 | FALSE |
| TC03002146.hg.1; | ENSG00000189058; | 0.2013953 | 0.3862784 | FALSE |
| TC02002605.hg.1; | ENSG00000064989; | 0.2027197 | 0.3885574 | FALSE |
| TC02002624.hg.1; | ENSG00000115415; | 0.2027197 | 0.3885574 | FALSE |
| TC01001090.hg.1; | ENSG00000117289; | 0.2040121 | 0.3906848 | FALSE |
| TC04000408.hg.1; | ENSG00000169429; | 0.2040121 | 0.3906848 | FALSE |
| TC01002706.hg.1; | ENSG00000184292; | 0.2041544 | 0.3906952 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.2044028 | 0.3909958 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.2052516 | 0.3923563 | FALSE |
| TC04000408.hg.1; | ENSG00000169429; | 0.2052516 | 0.3923563 | FALSE |
| TC01003791.hg.1; | ENSG00000143473; | 0.2057834 | 0.393022 | FALSE |
| TC01003791.hg.1; | ENSG00000143473; | 0.2057834 | 0.393022 | FALSE |
| TC02001628.hg.1; | ENSG00000084674; | 0.2091307 | 0.3983264 | FALSE |
| TC02001628.hg.1; | ENSG00000084674; | 0.2091307 | 0.3983264 | FALSE |
| TC11001026.hg.1; | ENSG00000109906; | 0.2097085 | 0.3983264 | FALSE |
| TC16000668.hg.1; | ENSG00000103241; | 0.2097085 | 0.3983264 | FALSE |
| TC0X000038.hg.1; | ENSG00000073464; | 0.2097085 | 0.3983264 | FALSE |
| TC07000137.hg.1; | ENSG00000136244; | 0.2097085 | 0.3983264 | FALSE |
| TC0X000038.hg.1; | ENSG00000073464; | 0.2097085 | 0.3983264 | FALSE |
| TC07001552.hg.1; | ENSG00000187391; | 0.2097085 | 0.3983264 | FALSE |
| TC02002624.hg.1; | ENSG00000115415; | 0.2097085 | 0.3983264 | FALSE |
| TC02002823.hg.1; | ENSG00000135919; | 0.2097085 | 0.3983264 | FALSE |
| TC06000779.hg.1; | ENSG00000135318; | 0.2097085 | 0.3983264 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.2097085 | 0.3983264 | FALSE |
| TC11000707.hg.1; | ENSG00000162337; | 0.2097085 | 0.3983264 | FALSE |
| TC08000646.hg.1; | ENSG00000164932; | 0.2099145 | 0.3983264 | FALSE |
| TC02002714.hg.1; | ENSG00000163251; | 0.210003 | 0.3983264 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.210858 | 0.3993703 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.210858 | 0.3993703 | FALSE |
| TC06001027.hg.1; | ENSG00000118503; | 0.210858 | 0.3993703 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01003638.hg.1 | ENSG0000073756; | 0.210858 | 0.3993703 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.210858 | 0.3993703 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.2112954 | 0.3993703 | FALSE |
| TC01003638.hg.1 | ENSG0000073756; | 0.2112954 | 0.3993703 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.2112996 | 0.3993703 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.2128369 | 0.4008753 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.2133716 | 0.4008753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.216297 | 0.4008753 | FALSE |
| TC01003638.hg.1 | ENSG0000073756; | 0.2169376 | 0.4008753 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.2185337 | 0.4008753 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.2185337 | 0.4008753 | FALSE |
| TC08000646.hg.1 | ENSG00000164932; | 0.2185337 | 0.4008753 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.219337 | 0.4008753 | FALSE |
| TC14001364.hg.1 | ENSG00000211448 | 0.2206483 | 0.4008753 | FALSE |
| TC15000971.hg.1 | ENSG00000184254 | 0.2206483 | 0.4008753 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.2206483 | 0.4008753 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.2206483 | 0.4008753 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.2206483 | 0.4008753 | FALSE |
| TC08001567.hg.1 | ENSG00000170961 | 0.2206483 | 0.4008753 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.2206483 | 0.4008753 | FALSE |
| TC11000404.hg.1 | ENSG00000134574 | 0.2206483 | 0.4008753 | FALSE |
| TC14001364.hg.1 | ENSG00000211448 | 0.2206483 | 0.4008753 | FALSE |
| TC06002036.hg.1 | ENSG00000249853 | 0.2206483 | 0.4008753 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.2206483 | 0.4008753 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.2206483 | 0.4008753 | FALSE |
| TC11001026.hg.1 | ENSG00000109906 | 0.2206483 | 0.4008753 | FALSE |
| TC10000663.hg.1 | ENSG00000095596 | 0.2206483 | 0.4008753 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.2206483 | 0.4008753 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.2206483 | 0.4008753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.2206483 | 0.4008753 | FALSE |
| TC02002480.hg.1 | ENSG00000078098 | 0.2206483 | 0.4008753 | FALSE |
| TC19000191.hg.1 | ENSG00000130164 | 0.2206483 | 0.4008753 | FALSE |
| TC08000149.hg.1 | ENSG00000175445 | 0.2206483 | 0.4008753 | FALSE |
| TC12001324.hg.1 | ENSG00000123095 | 0.2206483 | 0.4008753 | FALSE |
| TC03002146.hg.1 | ENSG00000189058 | 0.2206483 | 0.4008753 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.2206483 | 0.4008753 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.2206483 | 0.4008753 | FALSE |
| TC05000840.hg.1 | ENSG00000123643 | 0.2206483 | 0.4008753 | FALSE |
| TC05000840.hg.1 | ENSG00000123643 | 0.2206483 | 0.4008753 | FALSE |
| TC08000127.hg.1 | ENSG00000003989 | 0.2206483 | 0.4008753 | FALSE |
| TC05000840.hg.1 | ENSG00000123643 | 0.2206483 | 0.4008753 | FALSE |
| TC10000663.hg.1 | ENSG00000095596 | 0.2206483 | 0.4008753 | FALSE |
| TC01003778.hg.1 | ENSG00000076356 | 0.2206483 | 0.4008753 | FALSE |
| TC10001327.hg.1 | ENSG00000122877 | 0.2206483 | 0.4008753 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.2206483 | 0.4008753 | FALSE |
| TC01002669.hg.1 | ENSG00000157193 | 0.2206483 | 0.4008753 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2206483 | 0.4008753 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2206483 | 0.4008753 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.2206483 | 0.4008753 | FALSE |
| TC08001175.hg.1 | ENSG00000104368 | 0.2206483 | 0.4008753 | FALSE |
| TC11002140.hg.1 | ENSG00000149256 | 0.2206483 | 0.4008753 | FALSE |
| TC06000976.hg.1 | ENSG00000196569 | 0.2206483 | 0.4008753 | FALSE |
| TC08001659.hg.1 | ENSG00000104419 | 0.2206483 | 0.4008753 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.2206483 | 0.4008753 | FALSE |
| TC22000019.hg.1 | ENSG00000177663 | 0.2206483 | 0.4008753 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.2206483 | 0.4008753 | FALSE |
| TC08001275.hg.1 | ENSG00000172817 | 0.2206483 | 0.4008753 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.2206483 | 0.4008753 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC17000383.hg.1 | ENSG00000108691 | 0.2206483 | 0.4008753 | FALSE |
| TC07001562.hg.1 | ENSG00000019991 | 0.2206483 | 0.4008753 | FALSE |
| TC07001562.hg.1 | ENSG00000019991 | 0.2206483 | 0.4008753 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.2206483 | 0.4008753 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.2206483 | 0.4008753 | FALSE |
| TC10000663.hg.1 | ENSG00000095596 | 0.2206483 | 0.4008753 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.2206483 | 0.4008753 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.2206483 | 0.4008753 | FALSE |
| TC12000227.hg.1 | ENSG00000172572 | 0.2206483 | 0.4008753 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.2206483 | 0.4008753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.2206483 | 0.4008753 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.2206483 | 0.4008753 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.2206483 | 0.4008753 | FALSE |
| TC03001527.hg.1 | ENSG00000163638 | 0.2206483 | 0.4008753 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.2206483 | 0.4008753 | FALSE |
| TC01001736.hg.1 | ENSG00000196352 | 0.2206483 | 0.4008753 | FALSE |
| TC06002036.hg.1 | ENSG00000249853 | 0.2206483 | 0.4008753 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.2206483 | 0.4008753 | FALSE |
| TC11002427.hg.1 | ENSG00000064309 | 0.2206483 | 0.4008753 | FALSE |
| TC18000548.hg.1 | ENSG00000183287 | 0.2206483 | 0.4008753 | FALSE |
| TC03001527.hg.1 | ENSG00000163638 | 0.2206483 | 0.4008753 | FALSE |
| TC01002706.hg.1 | ENSG00000184292 | 0.2206483 | 0.4008753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.2206483 | 0.4008753 | FALSE |
| TC01000734.hg.1 | ENSG00000118473 | 0.2206483 | 0.4008753 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2206483 | 0.4008753 | FALSE |
| TC10000406.hg.1 | ENSG00000138336 | 0.2206483 | 0.4008753 | FALSE |
| TC11002170.hg.1 | ENSG00000174804 | 0.2206483 | 0.4008753 | FALSE |
| TC01002669.hg.1 | ENSG00000157193 | 0.2206483 | 0.4008753 | FALSE |
| TC07000004.hg.1 | ENSG00000177706 | 0.2206483 | 0.4008753 | FALSE |
| TC09001336.hg.1 | ENSG00000106819 | 0.2206483 | 0.4008753 | FALSE |
| TC05001110.hg.1 | ENSG00000153395 | 0.2206483 | 0.4008753 | FALSE |
| TC10001498.hg.1 | ENSG00000107796 | 0.2206483 | 0.4008753 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2206483 | 0.4008753 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2206483 | 0.4008753 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.2206483 | 0.4008753 | FALSE |
| TC05001933.hg.1 | ENSG00000113721 | 0.2206483 | 0.4008753 | FALSE |
| TC20000162.hg.1 | ENSG00000101463 | 0.2206483 | 0.4008753 | FALSE |
| TC16000571.hg.1 | ENSG00000198373 | 0.2206483 | 0.4008753 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2206483 | 0.4008753 | FALSE |
| TC14000951.hg.1 | ENSG00000092068 | 0.2206483 | 0.4008753 | FALSE |
| TC17001459.hg.1 | ENSG00000126368 | 0.2206483 | 0.4008753 | FALSE |
| TC01001736.hg.1 | ENSG00000196352 | 0.2206483 | 0.4008753 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.2206483 | 0.4008753 | FALSE |
| TC17000819.hg.1 | ENSG00000125398 | 0.2206483 | 0.4008753 | FALSE |
| TC12001755.hg.1 | ENSG00000175183 | 0.2206483 | 0.4008753 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.2216004 | 0.4008753 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.2216004 | 0.4008753 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.2216004 | 0.4008753 | FALSE |
| TC10000663.hg.1 | ENSG00000095596; | 0.2216004 | 0.4008753 | FALSE |
| TC04001245.hg.1 | ENSG00000145242; | 0.2216004 | 0.4008753 | FALSE |
| TC0Y000185.hg.1 | ENSG00000012817; | 0.2216004 | 0.4008753 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.2228692 | 0.4024902 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.2228692 | 0.4024902 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.2248654 | 0.4048145 | FALSE |
| TC06001772.hg.1 | ENSG00000146233; | 0.2248654 | 0.4048145 | FALSE |
| TC08000482.hg.1 | ENSG00000121039; | 0.2248654 | 0.4048145 | FALSE |
| TC08001567.hg.1 | ENSG00000170961; | 0.2248654 | 0.4048145 | FALSE |
| TC05001590.hg.1 | ENSG00000113369; | 0.2248654 | 0.4048145 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03000214.hg.1 | ENSG00000168036; | 0.2248654 | 0.4048145 | FALSE |
| TC14001122.hg.1 | ENSG00000151748; | 0.2248654 | 0.4048145 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.2248654 | 0.4048145 | FALSE |
| TC10001663.hg.1 | ENSG00000119927; | 0.2248654 | 0.4048145 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.2248654 | 0.4048145 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.2248654 | 0.4048145 | FALSE |
| TC01003129.hg.1 | ENSG00000143140; | 0.2248654 | 0.4048145 | FALSE |
| TC0X001186.hg.1 | ENSG00000072133; | 0.2248654 | 0.4048145 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.2258162 | 0.4053329 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.2261041 | 0.4056796 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.227246 | 0.4075577 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.2277468 | 0.4082848 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.2279473 | 0.4084731 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2280942 | 0.4085654 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.232449 | 0.4161046 | FALSE |
| TC05003439.hg.1 | ENSG00000213949; | 0.232449 | 0.4161046 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.2336212 | 0.4178535 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.2336212 | 0.4178535 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.2348991 | 0.4198761 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.2354526 | 0.4206019 | FALSE |
| TC06002168.hg.1 | ENSG00000164442; | 0.2354526 | 0.4206019 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.2360446 | 0.4213957 | FALSE |
| TC03001590.hg.1 | ENSG00000184500; | 0.2367021 | 0.4223934 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.2369971 | 0.4227436 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.2385711 | 0.4253739 | FALSE |
| TC07001374.hg.1 | ENSG00000106070; | 0.2400991 | 0.4259918 | FALSE |
| TC07001374.hg.1 | ENSG00000106070; | 0.2400991 | 0.4259918 | FALSE |
| TC07000525.hg.1 | ENSG00000008277; | 0.2400991 | 0.4259918 | FALSE |
| TC05000840.hg.1 | ENSG00000123643; | 0.2400991 | 0.4259918 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.2400991 | 0.4259918 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.2400991 | 0.4259918 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.2400991 | 0.4259918 | FALSE |
| TC17000220.hg.1 | ENSG00000108448; | 0.2400991 | 0.4259918 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.2400991 | 0.4259918 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.2400991 | 0.4259918 | FALSE |
| TC11002178.hg.1 | ENSG00000086991; | 0.2400991 | 0.4259918 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.2400991 | 0.4259918 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2402112 | 0.4259918 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.2409934 | 0.4272019 | FALSE |
| TC02000466.hg.1 | ENSG00000159399; | 0.2412079 | 0.4274052 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.241602 | 0.4279264 | FALSE |
| TC01000734.hg.1 | ENSG00000118473; | 0.2428513 | 0.4299613 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.2433907 | 0.4305602 | FALSE |
| TC05000165.hg.1 | ENSG00000079215; | 0.2433907 | 0.4305602 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.2433907 | 0.4305602 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.2488599 | 0.4323241 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.2488599 | 0.4323241 | FALSE |
| TC01001704.hg.1 | ENSG00000163531; | 0.2488599 | 0.4323241 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.249158 | 0.4323241 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2516292 | 0.4323241 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.2523727 | 0.4323241 | FALSE |
| TC02002049.hg.1 | ENSG00000115525 | 0.2523727 | 0.4323241 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.2523727 | 0.4323241 | FALSE |
| TC16000454.hg.1 | ENSG00000087245 | 0.2523727 | 0.4323241 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.2523727 | 0.4323241 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.2523727 | 0.4323241 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.2523727 | 0.4323241 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.2523727 | 0.4323241 | FALSE |

| | | | | |
|-----------------|-----------------|-----------|-----------|-------|
| TC03000214.hg.1 | ENSG00000168036 | 0.2523727 | 0.4323241 | FALSE |
| TC03000013.hg.1 | ENSG00000150995 | 0.2523727 | 0.4323241 | FALSE |
| TC10000022.hg.1 | ENSG00000067057 | 0.2523727 | 0.4323241 | FALSE |
| TC09000222.hg.1 | ENSG00000137124 | 0.2523727 | 0.4323241 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.2523727 | 0.4323241 | FALSE |
| TC08000203.hg.1 | ENSG00000092964 | 0.2523727 | 0.4323241 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.2523727 | 0.4323241 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.2523727 | 0.4323241 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.2523727 | 0.4323241 | FALSE |
| TC16000668.hg.1 | ENSG00000103241 | 0.2523727 | 0.4323241 | FALSE |
| TC03000862.hg.1 | ENSG00000163661 | 0.2523727 | 0.4323241 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.2523727 | 0.4323241 | FALSE |
| TC06000779.hg.1 | ENSG00000135318 | 0.2523727 | 0.4323241 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.2523727 | 0.4323241 | FALSE |
| TC12000076.hg.1 | ENSG00000010278 | 0.2523727 | 0.4323241 | FALSE |
| TC11002427.hg.1 | ENSG00000064309 | 0.2523727 | 0.4323241 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.2523727 | 0.4323241 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.2523727 | 0.4323241 | FALSE |
| TC03002146.hg.1 | ENSG00000189058 | 0.2523727 | 0.4323241 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.2523727 | 0.4323241 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.2523727 | 0.4323241 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.2523727 | 0.4323241 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.2523727 | 0.4323241 | FALSE |
| TC20000926.hg.1 | ENSG00000158445 | 0.2523727 | 0.4323241 | FALSE |
| TC12001837.hg.1 | ENSG00000074527 | 0.2523727 | 0.4323241 | FALSE |
| TC01002669.hg.1 | ENSG00000157193 | 0.2523727 | 0.4323241 | FALSE |
| TC08001022.hg.1 | ENSG00000147408 | 0.2523727 | 0.4323241 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2523727 | 0.4323241 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.2523727 | 0.4323241 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.2523727 | 0.4323241 | FALSE |
| TC08000149.hg.1 | ENSG00000175445 | 0.2523727 | 0.4323241 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.2523727 | 0.4323241 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.2523727 | 0.4323241 | FALSE |
| TC09000358.hg.1 | ENSG00000135069 | 0.2523727 | 0.4323241 | FALSE |
| TC02000281.hg.1 | ENSG00000116016 | 0.2523727 | 0.4323241 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.2523727 | 0.4323241 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.2523727 | 0.4323241 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.2523727 | 0.4323241 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.2523727 | 0.4323241 | FALSE |
| TC10000406.hg.1 | ENSG00000138336 | 0.2523727 | 0.4323241 | FALSE |
| TC02001100.hg.1 | ENSG00000138448 | 0.2523727 | 0.4323241 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.2523727 | 0.4323241 | FALSE |
| TC07001374.hg.1 | ENSG00000106070 | 0.2523727 | 0.4323241 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.2523727 | 0.4323241 | FALSE |
| TC02000511.hg.1 | ENSG00000168906 | 0.2523727 | 0.4323241 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.2523727 | 0.4323241 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.2523727 | 0.4323241 | FALSE |
| TC11002178.hg.1 | ENSG00000086991 | 0.2523727 | 0.4323241 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.2523727 | 0.4323241 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.2523727 | 0.4323241 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.2523727 | 0.4323241 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2523727 | 0.4323241 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2523727 | 0.4323241 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.2523727 | 0.4323241 | FALSE |
| TC17000015.hg.1 | ENSG00000132386 | 0.2523727 | 0.4323241 | FALSE |
| TC11002140.hg.1 | ENSG00000149256 | 0.2523727 | 0.4323241 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.2523727 | 0.4323241 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.2523727 | 0.4323241 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC05001933.hg.1 | ENSG00000113721 | 0.2523727 | 0.4323241 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.2523727 | 0.4323241 | FALSE |
| TC20000621.hg.1 | ENSG00000101384 | 0.2523727 | 0.4323241 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.2523727 | 0.4323241 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.2523727 | 0.4323241 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.2523727 | 0.4323241 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.2523727 | 0.4323241 | FALSE |
| TC20000621.hg.1 | ENSG00000101384 | 0.2523727 | 0.4323241 | FALSE |
| TC07001562.hg.1 | ENSG00000019991 | 0.2523727 | 0.4323241 | FALSE |
| TC22000019.hg.1 | ENSG00000177663 | 0.2523727 | 0.4323241 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.2523727 | 0.4323241 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.2523727 | 0.4323241 | FALSE |
| TC19000677.hg.1 | ENSG00000134830 | 0.2523727 | 0.4323241 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.2523727 | 0.4323241 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.2523727 | 0.4323241 | FALSE |
| TC06002302.hg.1 | ENSG00000223414 | 0.2523727 | 0.4323241 | FALSE |
| TC08000646.hg.1 | ENSG00000164932; | 0.2538731 | 0.4323241 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.2538731 | 0.4323241 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.254413 | 0.4323241 | FALSE |
| TC01003497.hg.1 | ENSG00000117479; | 0.254413 | 0.4323241 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.254413 | 0.4323241 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.254413 | 0.4323241 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.254413 | 0.4323241 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.254413 | 0.4323241 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.254413 | 0.4323241 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.254413 | 0.4323241 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.2553781 | 0.4323241 | FALSE |
| TC07000559.hg.1 | ENSG00000164692; | 0.2553781 | 0.4323241 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.2553781 | 0.4323241 | FALSE |
| TC04000432.hg.1 | ENSG00000156234; | 0.2553781 | 0.4323241 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.2553781 | 0.4323241 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.2553781 | 0.4323241 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.2553781 | 0.4323241 | FALSE |
| TC10000811.hg.1 | ENSG00000150594; | 0.2553781 | 0.4323241 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.2553781 | 0.4323241 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.2553781 | 0.4323241 | FALSE |
| TC05003423.hg.1 | ENSG00000082196; | 0.2553781 | 0.4323241 | FALSE |
| TC05003423.hg.1 | ENSG00000082196; | 0.2553781 | 0.4323241 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2555974 | 0.4323241 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.2558734 | 0.4326201 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.2576541 | 0.4353728 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.2576541 | 0.4353728 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2613557 | 0.4413664 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.2615546 | 0.4415281 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.2627223 | 0.4431702 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.2628897 | 0.4431702 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.2628897 | 0.4431702 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.2628897 | 0.4431702 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.2628897 | 0.4431702 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.264343 | 0.4451819 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.2655034 | 0.4467846 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.2655034 | 0.4467846 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.2655034 | 0.4467846 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.2658496 | 0.4470158 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.2659893 | 0.447075 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.2662879 | 0.4474012 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.2691606 | 0.4520505 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.2696661 | 0.4527218 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC02002714.hg.1 | ENSG00000163251; | 0.2706736 | 0.4529859 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.2706736 | 0.4529859 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.2706736 | 0.4529859 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.2706736 | 0.4529859 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.2706736 | 0.4529859 | FALSE |
| TC12001890.hg.1 | ENSG00000017427; | 0.2706736 | 0.4529859 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.2706736 | 0.4529859 | FALSE |
| TC01003497.hg.1 | ENSG00000117479; | 0.2706736 | 0.4529859 | FALSE |
| TC03000631.hg.1 | ENSG00000114023; | 0.2706736 | 0.4529859 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947; | 0.2706736 | 0.4529859 | FALSE |
| TC10000438.hg.1 | ENSG00000107731; | 0.2706736 | 0.4529859 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.2719655 | 0.4529859 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.2719655 | 0.4529859 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.2721657 | 0.4529859 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.2721657 | 0.4529859 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.2750844 | 0.4529859 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.27665 | 0.4529859 | FALSE |
| TC04001245.hg.1 | ENSG00000145242; | 0.27665 | 0.4529859 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.2766546 | 0.4529859 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.2766546 | 0.4529859 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.2766652 | 0.4529859 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.2766652 | 0.4529859 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.2768598 | 0.4529859 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.2785352 | 0.4529859 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.2791627 | 0.4529859 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2795189 | 0.4529859 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.2810941 | 0.4529859 | FALSE |
| TC01000734.hg.1 | ENSG00000118473; | 0.2810941 | 0.4529859 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.2828076 | 0.4529859 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.2828076 | 0.4529859 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.2828076 | 0.4529859 | FALSE |
| TC01001736.hg.1 | ENSG00000196352 | 0.2828076 | 0.4529859 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2828076 | 0.4529859 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.2828076 | 0.4529859 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.2828076 | 0.4529859 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.2828076 | 0.4529859 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.2828076 | 0.4529859 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.2828076 | 0.4529859 | FALSE |
| TC09000358.hg.1 | ENSG00000135069 | 0.2828076 | 0.4529859 | FALSE |
| TC06001772.hg.1 | ENSG00000146233 | 0.2828076 | 0.4529859 | FALSE |
| TC05001172.hg.1 | ENSG00000154122 | 0.2828076 | 0.4529859 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.2828076 | 0.4529859 | FALSE |
| TC10000663.hg.1 | ENSG00000095596 | 0.2828076 | 0.4529859 | FALSE |
| TC03000208.hg.1 | ENSG00000168032 | 0.2828076 | 0.4529859 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.2828076 | 0.4529859 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.2828076 | 0.4529859 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.2828076 | 0.4529859 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.2828076 | 0.4529859 | FALSE |
| TC06001142.hg.1 | ENSG00000164694 | 0.2828076 | 0.4529859 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.2828076 | 0.4529859 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.2828076 | 0.4529859 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.2828076 | 0.4529859 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.2828076 | 0.4529859 | FALSE |
| TC01003497.hg.1 | ENSG00000117479 | 0.2828076 | 0.4529859 | FALSE |
| TC06001772.hg.1 | ENSG00000146233 | 0.2828076 | 0.4529859 | FALSE |
| TC20000108.hg.1 | ENSG00000125851 | 0.2828076 | 0.4529859 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2828076 | 0.4529859 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2828076 | 0.4529859 | FALSE |

| | | | | |
|------------------|-----------------|-----------|-----------|-------|
| TC08001022.hg.1 | ENSG00000147408 | 0.2828076 | 0.4529859 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2828076 | 0.4529859 | FALSE |
| TC10000406.hg.1 | ENSG00000138336 | 0.2828076 | 0.4529859 | FALSE |
| TC01002166.hg.1 | ENSG00000116285 | 0.2828076 | 0.4529859 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.2828076 | 0.4529859 | FALSE |
| TC01002706.hg.1 | ENSG00000184292 | 0.2828076 | 0.4529859 | FALSE |
| TC05000840.hg.1 | ENSG00000123643 | 0.2828076 | 0.4529859 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.2828076 | 0.4529859 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.2828076 | 0.4529859 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.2828076 | 0.4529859 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.2828076 | 0.4529859 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.2828076 | 0.4529859 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.2828076 | 0.4529859 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.2828076 | 0.4529859 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.2828076 | 0.4529859 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221 | 0.2828076 | 0.4529859 | FALSE |
| TC20000893.hg.1 | ENSG00000100979 | 0.2828076 | 0.4529859 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.2828076 | 0.4529859 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.2828076 | 0.4529859 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.2828076 | 0.4529859 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.2828076 | 0.4529859 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.2828076 | 0.4529859 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.2828076 | 0.4529859 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.2828076 | 0.4529859 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.2828076 | 0.4529859 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.2828076 | 0.4529859 | FALSE |
| TC06000779.hg.1 | ENSG00000135318 | 0.2828076 | 0.4529859 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.2828076 | 0.4529859 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.2828076 | 0.4529859 | FALSE |
| TC05001385.hg.1 | ENSG00000145632 | 0.2828076 | 0.4529859 | FALSE |
| TC03001527.hg.1 | ENSG00000163638 | 0.2828076 | 0.4529859 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.2828076 | 0.4529859 | FALSE |
| TC0X0000943.hg.1 | ENSG00000198947 | 0.2828076 | 0.4529859 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.2828076 | 0.4529859 | FALSE |
| TC11002140.hg.1 | ENSG00000149256 | 0.2828076 | 0.4529859 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.2828076 | 0.4529859 | FALSE |
| TC03001527.hg.1 | ENSG00000163638 | 0.2828076 | 0.4529859 | FALSE |
| TC21000420.hg.1 | ENSG00000159200 | 0.2828076 | 0.4529859 | FALSE |
| TC02000466.hg.1 | ENSG00000159399 | 0.2828076 | 0.4529859 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.2828076 | 0.4529859 | FALSE |
| TC01001090.hg.1 | ENSG00000117289 | 0.2828076 | 0.4529859 | FALSE |
| TC03002146.hg.1 | ENSG00000189058 | 0.2828076 | 0.4529859 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.2828076 | 0.4529859 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.2828076 | 0.4529859 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.2828076 | 0.4529859 | FALSE |
| TC11002366.hg.1 | ENSG00000076706 | 0.2828076 | 0.4529859 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.2828076 | 0.4529859 | FALSE |
| TC14001122.hg.1 | ENSG00000151748 | 0.2828076 | 0.4529859 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.2828076 | 0.4529859 | FALSE |
| TC15000971.hg.1 | ENSG00000184254 | 0.2828076 | 0.4529859 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.2828076 | 0.4529859 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.2828076 | 0.4529859 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.2828076 | 0.4529859 | FALSE |
| TC06002168.hg.1 | ENSG00000164442 | 0.2828076 | 0.4529859 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.2828076 | 0.4529859 | FALSE |
| TC11002178.hg.1 | ENSG00000086991 | 0.2828076 | 0.4529859 | FALSE |
| TC08001567.hg.1 | ENSG00000170961 | 0.2828076 | 0.4529859 | FALSE |
| TC07001627.hg.1 | ENSG00000105880 | 0.2828076 | 0.4529859 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC07001627.hg.1 | ENSG00000105880 | 0.2828076 | 0.4529859 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.2828076 | 0.4529859 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.2828076 | 0.4529859 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.2828076 | 0.4529859 | FALSE |
| TC07000004.hg.1 | ENSG00000177706 | 0.2828076 | 0.4529859 | FALSE |
| TC01002706.hg.1 | ENSG00000184292 | 0.2828076 | 0.4529859 | FALSE |
| TC16000571.hg.1 | ENSG00000198373 | 0.2828076 | 0.4529859 | FALSE |
| TC03002146.hg.1 | ENSG00000189058 | 0.2828076 | 0.4529859 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.2828076 | 0.4529859 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.2828076 | 0.4529859 | FALSE |
| TC12000601.hg.1 | ENSG00000127314 | 0.2828076 | 0.4529859 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.2828076 | 0.4529859 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.2828076 | 0.4529859 | FALSE |
| TC10002938.hg.1 | ENSG00000148671 | 0.2828076 | 0.4529859 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.2836849 | 0.4529859 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.2849347 | 0.4548119 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.2859591 | 0.4551149 | FALSE |
| TC10000663.hg.1 | ENSG00000095596; | 0.2859591 | 0.4551149 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.2859591 | 0.4551149 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.2859591 | 0.4551149 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.2859591 | 0.4551149 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.2859591 | 0.4551149 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.2859591 | 0.4551149 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.2859591 | 0.4551149 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.2859591 | 0.4551149 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.2859591 | 0.4551149 | FALSE |
| TC07001374.hg.1 | ENSG00000106070; | 0.2859591 | 0.4551149 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.2859591 | 0.4551149 | FALSE |
| TC02000762.hg.1 | ENSG00000163083; | 0.2865597 | 0.4551149 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.2865597 | 0.4551149 | FALSE |
| TC07001883.hg.1 | ENSG00000085662; | 0.2878412 | 0.4567265 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.2878412 | 0.4567265 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.2878412 | 0.4567265 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.2889668 | 0.458173 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.290269 | 0.4598118 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.290269 | 0.4598118 | FALSE |
| TC01001688.hg.1 | ENSG00000058668; | 0.290269 | 0.4598118 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.290269 | 0.4598118 | FALSE |
| TC03001575.hg.1 | ENSG00000114480; | 0.2907541 | 0.4601547 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.2938112 | 0.4648211 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.2959081 | 0.4679655 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.296348 | 0.4684881 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.2976644 | 0.4703955 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.2990658 | 0.4720003 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.2990658 | 0.4720003 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.2990658 | 0.4720003 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.2990658 | 0.4720003 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.2990658 | 0.4720003 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.2990658 | 0.4720003 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.2994838 | 0.4720509 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.3010857 | 0.4733776 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.3012101 | 0.4733776 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.3012101 | 0.4733776 | FALSE |
| TC06000728.hg.1 | ENSG00000185760; | 0.3012101 | 0.4733776 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.3012101 | 0.4733776 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.3012101 | 0.4733776 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.3012101 | 0.4733776 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.3012101 | 0.4733776 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC11002178.hg.1; | ENSG00000086991; | 0.3012101 | 0.4733776 | FALSE |
| TC07001374.hg.1; | ENSG00000106070; | 0.3012101 | 0.4733776 | FALSE |
| TC10000811.hg.1; | ENSG00000150594; | 0.3012101 | 0.4733776 | FALSE |
| TC02000286.hg.1; | ENSG00000171150; | 0.3012101 | 0.4733776 | FALSE |
| TC03001071.hg.1; | ENSG00000114315; | 0.3012101 | 0.4733776 | FALSE |
| TC01002166.hg.1; | ENSG00000116285; | 0.3012101 | 0.4733776 | FALSE |
| TC04000432.hg.1; | ENSG00000156234; | 0.3026541 | 0.4744278 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.3037578 | 0.4759836 | FALSE |
| TC03000917.hg.1; | ENSG00000136603; | 0.3049975 | 0.4777513 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.3087325 | 0.4822002 | FALSE |
| TC01003638.hg.1; | ENSG00000073756; | 0.3108608 | 0.4822002 | FALSE |
| TC01001736.hg.1; | ENSG00000196352; | 0.3115961 | 0.4822002 | FALSE |
| TC03000846.hg.1; | ENSG00000196549; | 0.3119239 | 0.4822002 | FALSE |
| TC01003791.hg.1; | ENSG00000143473 | 0.3120053 | 0.4822002 | FALSE |
| TC05000165.hg.1; | ENSG00000079215 | 0.3120053 | 0.4822002 | FALSE |
| TC08000646.hg.1; | ENSG00000164932 | 0.3120053 | 0.4822002 | FALSE |
| TC03000214.hg.1; | ENSG00000168036 | 0.3120053 | 0.4822002 | FALSE |
| TC06000945.hg.1; | ENSG00000152661 | 0.3120053 | 0.4822002 | FALSE |
| TC04000313.hg.1; | ENSG00000157404 | 0.3120053 | 0.4822002 | FALSE |
| TC19001103.hg.1; | ENSG00000125730 | 0.3120053 | 0.4822002 | FALSE |
| TC19001293.hg.1; | ENSG00000105664 | 0.3120053 | 0.4822002 | FALSE |
| TC01001688.hg.1; | ENSG00000058668 | 0.3120053 | 0.4822002 | FALSE |
| TC12000621.hg.1; | ENSG00000135643 | 0.3120053 | 0.4822002 | FALSE |
| TC17001462.hg.1; | ENSG00000131747 | 0.3120053 | 0.4822002 | FALSE |
| TC03001527.hg.1; | ENSG00000163638 | 0.3120053 | 0.4822002 | FALSE |
| TC12002066.hg.1; | ENSG00000158104 | 0.3120053 | 0.4822002 | FALSE |
| TC08000646.hg.1; | ENSG00000164932 | 0.3120053 | 0.4822002 | FALSE |
| TC05000165.hg.1; | ENSG00000079215 | 0.3120053 | 0.4822002 | FALSE |
| TC02000041.hg.1; | ENSG00000115738 | 0.3120053 | 0.4822002 | FALSE |
| TC03002146.hg.1; | ENSG00000189058 | 0.3120053 | 0.4822002 | FALSE |
| TC17000383.hg.1; | ENSG00000108691 | 0.3120053 | 0.4822002 | FALSE |
| TC06000087.hg.1; | ENSG00000078401 | 0.3120053 | 0.4822002 | FALSE |
| TC0X000034.hg.1; | ENSG00000146950 | 0.3120053 | 0.4822002 | FALSE |
| TC05000165.hg.1; | ENSG00000079215 | 0.3120053 | 0.4822002 | FALSE |
| TC05000840.hg.1; | ENSG00000123643 | 0.3120053 | 0.4822002 | FALSE |
| TC17000383.hg.1; | ENSG00000108691 | 0.3120053 | 0.4822002 | FALSE |
| TC18000164.hg.1; | ENSG00000141469 | 0.3120053 | 0.4822002 | FALSE |
| TC12001890.hg.1; | ENSG00000017427 | 0.3120053 | 0.4822002 | FALSE |
| TC01002284.hg.1; | ENSG00000117122 | 0.3120053 | 0.4822002 | FALSE |
| TC07000137.hg.1; | ENSG00000136244 | 0.3120053 | 0.4822002 | FALSE |
| TC06001027.hg.1; | ENSG00000118503 | 0.3120053 | 0.4822002 | FALSE |
| TC05001933.hg.1; | ENSG00000113721 | 0.3120053 | 0.4822002 | FALSE |
| TC05001933.hg.1; | ENSG00000113721 | 0.3120053 | 0.4822002 | FALSE |
| TC01002284.hg.1; | ENSG00000117122 | 0.3120053 | 0.4822002 | FALSE |
| TC05002075.hg.1; | ENSG00000113739 | 0.3120053 | 0.4822002 | FALSE |
| TC05000159.hg.1; | ENSG00000168685 | 0.3120053 | 0.4822002 | FALSE |
| TC04000313.hg.1; | ENSG00000157404 | 0.3120053 | 0.4822002 | FALSE |
| TC01003638.hg.1; | ENSG00000073756 | 0.3120053 | 0.4822002 | FALSE |
| TC08001659.hg.1; | ENSG00000104419 | 0.3120053 | 0.4822002 | FALSE |
| TC10001571.hg.1; | ENSG00000120057 | 0.3120053 | 0.4822002 | FALSE |
| TC22001467.hg.1; | ENSG00000128394 | 0.3120053 | 0.4822002 | FALSE |
| TC0X000034.hg.1; | ENSG00000146950 | 0.3120053 | 0.4822002 | FALSE |
| TC08000203.hg.1; | ENSG00000092964 | 0.3120053 | 0.4822002 | FALSE |
| TC22001467.hg.1; | ENSG00000128394 | 0.3120053 | 0.4822002 | FALSE |
| TC07001332.hg.1; | ENSG00000164708 | 0.3120053 | 0.4822002 | FALSE |
| TC17000533.hg.1; | ENSG00000108797 | 0.3120053 | 0.4822002 | FALSE |
| TC10000811.hg.1; | ENSG00000150594 | 0.3120053 | 0.4822002 | FALSE |
| TC10001711.hg.1; | ENSG00000066468 | 0.3120053 | 0.4822002 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03000214.hg.1 | ENSG00000168036 | 0.3120053 | 0.4822002 | FALSE |
| TC07001374.hg.1 | ENSG00000106070 | 0.3120053 | 0.4822002 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.3120053 | 0.4822002 | FALSE |
| TC20000621.hg.1 | ENSG00000101384 | 0.3120053 | 0.4822002 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.3120053 | 0.4822002 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.3120053 | 0.4822002 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.3120053 | 0.4822002 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.3120053 | 0.4822002 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.3120053 | 0.4822002 | FALSE |
| TC08001659.hg.1 | ENSG00000104419 | 0.3120053 | 0.4822002 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.3120053 | 0.4822002 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.3120053 | 0.4822002 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.3120053 | 0.4822002 | FALSE |
| TC02001750.hg.1 | ENSG00000138061 | 0.3120053 | 0.4822002 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.3120053 | 0.4822002 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.3120053 | 0.4822002 | FALSE |
| TC14001122.hg.1 | ENSG00000151748 | 0.3120053 | 0.4822002 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.3120053 | 0.4822002 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.3120053 | 0.4822002 | FALSE |
| TC12001916.hg.1 | ENSG00000074590 | 0.3120053 | 0.4822002 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.3164041 | 0.482381 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.3164041 | 0.482381 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.3164041 | 0.482381 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.3164041 | 0.482381 | FALSE |
| TC09000015.hg.1 | ENSG00000147852; | 0.3164041 | 0.482381 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.3164041 | 0.482381 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.3164041 | 0.482381 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.3164041 | 0.482381 | FALSE |
| TC16000668.hg.1 | ENSG00000103241; | 0.3164041 | 0.482381 | FALSE |
| TC01003718.hg.1 | ENSG00000133048; | 0.3164041 | 0.482381 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.3164041 | 0.482381 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.3180088 | 0.4837078 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.3180088 | 0.4837078 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.3193616 | 0.4855067 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.3199759 | 0.4861816 | FALSE |
| TC05000243.hg.1 | ENSG00000095015; | 0.3199759 | 0.4861816 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3215725 | 0.4882609 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.3215725 | 0.4882609 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.3273067 | 0.4966153 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.3273067 | 0.4966153 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950; | 0.328052 | 0.4974816 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.3286263 | 0.4981761 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.3295551 | 0.4994073 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.3305888 | 0.5007017 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3315204 | 0.5007017 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3315204 | 0.5007017 | FALSE |
| TC06000779.hg.1 | ENSG00000135318; | 0.3315204 | 0.5007017 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.3315204 | 0.5007017 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.3315204 | 0.5007017 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.3315204 | 0.5007017 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.3315204 | 0.5007017 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.3315204 | 0.5007017 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.3315204 | 0.5007017 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.3315204 | 0.5007017 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.3315204 | 0.5007017 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.3315204 | 0.5007017 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.3315204 | 0.5007017 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.3315204 | 0.5007017 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC07000328.hg.1 | ENSG00000146648; | 0.3315204 | 0.5007017 | FALSE |
| TC07000328.hg.1 | ENSG00000146648; | 0.3315204 | 0.5007017 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.3328341 | 0.5009185 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.3328341 | 0.5009185 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3328341 | 0.5009185 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.3328341 | 0.5009185 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.3366205 | 0.5054196 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.3366205 | 0.5054196 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.3366205 | 0.5054196 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.340016 | 0.5054196 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.340016 | 0.5054196 | FALSE |
| TC16000668.hg.1 | ENSG00000103241 | 0.340016 | 0.5054196 | FALSE |
| TC17000241.hg.1 | ENSG00000142494 | 0.340016 | 0.5054196 | FALSE |
| TC10000053.hg.1 | ENSG00000170525 | 0.340016 | 0.5054196 | FALSE |
| TC09000347.hg.1 | ENSG00000099139 | 0.340016 | 0.5054196 | FALSE |
| TC01002195.hg.1 | ENSG00000116649 | 0.340016 | 0.5054196 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.340016 | 0.5054196 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.340016 | 0.5054196 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.340016 | 0.5054196 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.340016 | 0.5054196 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.340016 | 0.5054196 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.340016 | 0.5054196 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.340016 | 0.5054196 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.340016 | 0.5054196 | FALSE |
| TC03000013.hg.1 | ENSG00000150995 | 0.340016 | 0.5054196 | FALSE |
| TC08000127.hg.1 | ENSG00000003989 | 0.340016 | 0.5054196 | FALSE |
| TC09000347.hg.1 | ENSG00000099139 | 0.340016 | 0.5054196 | FALSE |
| TC03001255.hg.1 | ENSG00000033867 | 0.340016 | 0.5054196 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.340016 | 0.5054196 | FALSE |
| TC01002669.hg.1 | ENSG00000157193 | 0.340016 | 0.5054196 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.340016 | 0.5054196 | FALSE |
| TC05001519.hg.1 | ENSG00000113273 | 0.340016 | 0.5054196 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.340016 | 0.5054196 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.340016 | 0.5054196 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.340016 | 0.5054196 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.340016 | 0.5054196 | FALSE |
| TC04002931.hg.1 | ENSG00000134853 | 0.340016 | 0.5054196 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.340016 | 0.5054196 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.340016 | 0.5054196 | FALSE |
| TC03002146.hg.1 | ENSG00000189058 | 0.340016 | 0.5054196 | FALSE |
| TC09001585.hg.1 | ENSG00000173611 | 0.340016 | 0.5054196 | FALSE |
| TC10001571.hg.1 | ENSG00000120057 | 0.340016 | 0.5054196 | FALSE |
| TC05003423.hg.1 | ENSG00000082196 | 0.340016 | 0.5054196 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.340016 | 0.5054196 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.340016 | 0.5054196 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.340016 | 0.5054196 | FALSE |
| TC07001534.hg.1 | ENSG00000127946 | 0.340016 | 0.5054196 | FALSE |
| TC08000482.hg.1 | ENSG00000121039 | 0.340016 | 0.5054196 | FALSE |
| TC01003778.hg.1 | ENSG00000076356 | 0.340016 | 0.5054196 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.340016 | 0.5054196 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.340016 | 0.5054196 | FALSE |
| TC07001293.hg.1 | ENSG00000106483 | 0.340016 | 0.5054196 | FALSE |
| TC03001255.hg.1 | ENSG00000033867 | 0.340016 | 0.5054196 | FALSE |
| TC05001385.hg.1 | ENSG00000145632 | 0.340016 | 0.5054196 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.340016 | 0.5054196 | FALSE |
| TC03000262.hg.1 | ENSG00000160801 | 0.340016 | 0.5054196 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.340016 | 0.5054196 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.340016 | 0.5054196 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC10001711.hg.1 | ENSG00000066468 | 0.340016 | 0.5054196 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.340016 | 0.5054196 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.340016 | 0.5054196 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.340016 | 0.5054196 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.340016 | 0.5054196 | FALSE |
| TC07001293.hg.1 | ENSG00000106483 | 0.340016 | 0.5054196 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.340016 | 0.5054196 | FALSE |
| TC03000846.hg.1 | ENSG00000196549 | 0.340016 | 0.5054196 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.340016 | 0.5054196 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.340016 | 0.5054196 | FALSE |
| TC13000147.hg.1 | ENSG00000102760 | 0.340016 | 0.5054196 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.340016 | 0.5054196 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.3440882 | 0.506026 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.3442609 | 0.5061061 | FALSE |
| TC08000646.hg.1 | ENSG00000164932; | 0.3459444 | 0.5078875 | FALSE |
| TC03001884.hg.1 | ENSG00000047457; | 0.3459444 | 0.5078875 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.3465404 | 0.5078875 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.3465404 | 0.5078875 | FALSE |
| TC07001374.hg.1 | ENSG00000106070; | 0.3465404 | 0.5078875 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.3465404 | 0.5078875 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.3465404 | 0.5078875 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.3465404 | 0.5078875 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.3465404 | 0.5078875 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.3465404 | 0.5078875 | FALSE |
| TC10001711.hg.1; | ENSG00000066468; | 0.3465404 | 0.5078875 | FALSE |
| TC06004150.hg.1 | ENSG00000096060; | 0.3465404 | 0.5078875 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.3465404 | 0.5078875 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.3465404 | 0.5078875 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.3465404 | 0.5078875 | FALSE |
| TC01003791.hg.1 | ENSG00000143473; | 0.348361 | 0.5093352 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.3496982 | 0.5111158 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.3514038 | 0.5133457 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.3514038 | 0.5133457 | FALSE |
| TC01003791.hg.1 | ENSG00000143473; | 0.3552728 | 0.5181028 | FALSE |
| TC06004141.hg.1 | ENSG00000112096; | 0.3552728 | 0.5181028 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.3553258 | 0.5181028 | FALSE |
| TC05001519.hg.1 | ENSG00000113273; | 0.3553258 | 0.5181028 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.3553258 | 0.5181028 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.3553258 | 0.5181028 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.3553258 | 0.5181028 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.3563706 | 0.5190958 | FALSE |
| TC01000100.hg.1 | ENSG00000049246; | 0.3571532 | 0.5200588 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.3576652 | 0.5206273 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.3595512 | 0.5219753 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.3605202 | 0.5219753 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.3605202 | 0.5219753 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.3614467 | 0.5219753 | FALSE |
| TC02002624.hg.1 | ENSG00000115415; | 0.3614467 | 0.5219753 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824; | 0.3614467 | 0.5219753 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.3614467 | 0.5219753 | FALSE |
| TC05001110.hg.1; | ENSG00000153395; | 0.3614467 | 0.5219753 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.3614467 | 0.5219753 | FALSE |
| TC11000707.hg.1; | ENSG00000162337; | 0.3614467 | 0.5219753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.3621145 | 0.5219753 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.3626312 | 0.5219753 | FALSE |
| TC01003605.hg.1 | ENSG00000135821; | 0.3646004 | 0.5219753 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.3665379 | 0.5219753 | FALSE |
| TC02000416.hg.1 | ENSG00000116005 | 0.3668879 | 0.5219753 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC20000945.hg.1 | ENSG00000101115 | 0.3668879 | 0.5219753 | FALSE |
| TC18000548.hg.1 | ENSG00000183287 | 0.3668879 | 0.5219753 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.3668879 | 0.5219753 | FALSE |
| TC08000127.hg.1 | ENSG00000003989 | 0.3668879 | 0.5219753 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.3668879 | 0.5219753 | FALSE |
| TC14001364.hg.1 | ENSG00000211448 | 0.3668879 | 0.5219753 | FALSE |
| TC01002954.hg.1 | ENSG00000134243 | 0.3668879 | 0.5219753 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.3668879 | 0.5219753 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.3668879 | 0.5219753 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.3668879 | 0.5219753 | FALSE |
| TC01001473.hg.1 | ENSG00000143153 | 0.3668879 | 0.5219753 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.3668879 | 0.5219753 | FALSE |
| TC03000846.hg.1 | ENSG00000196549 | 0.3668879 | 0.5219753 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.3668879 | 0.5219753 | FALSE |
| TC08000149.hg.1 | ENSG00000175445 | 0.3668879 | 0.5219753 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.3668879 | 0.5219753 | FALSE |
| TC05001172.hg.1 | ENSG00000154122 | 0.3668879 | 0.5219753 | FALSE |
| TC03001590.hg.1 | ENSG00000184500 | 0.3668879 | 0.5219753 | FALSE |
| TC03001590.hg.1 | ENSG00000184500 | 0.3668879 | 0.5219753 | FALSE |
| TC12003293.hg.1 | ENSG00000180818 | 0.3668879 | 0.5219753 | FALSE |
| TC15000971.hg.1 | ENSG00000184254 | 0.3668879 | 0.5219753 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.3668879 | 0.5219753 | FALSE |
| TC11002140.hg.1 | ENSG00000149256 | 0.3668879 | 0.5219753 | FALSE |
| TC11001415.hg.1 | ENSG00000133800 | 0.3668879 | 0.5219753 | FALSE |
| TC08001175.hg.1 | ENSG00000104368 | 0.3668879 | 0.5219753 | FALSE |
| TC11002140.hg.1 | ENSG00000149256 | 0.3668879 | 0.5219753 | FALSE |
| TC12001324.hg.1 | ENSG00000123095 | 0.3668879 | 0.5219753 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.3668879 | 0.5219753 | FALSE |
| TC09000222.hg.1 | ENSG00000137124 | 0.3668879 | 0.5219753 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.3668879 | 0.5219753 | FALSE |
| TC01002616.hg.1 | ENSG00000117461 | 0.3668879 | 0.5219753 | FALSE |
| TC18000548.hg.1 | ENSG00000183287 | 0.3668879 | 0.5219753 | FALSE |
| TC09001335.hg.1 | ENSG00000127083 | 0.3668879 | 0.5219753 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.3668879 | 0.5219753 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.3668879 | 0.5219753 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.3668879 | 0.5219753 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.3668879 | 0.5219753 | FALSE |
| TC10000406.hg.1 | ENSG00000138336 | 0.3668879 | 0.5219753 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.3668879 | 0.5219753 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.3668879 | 0.5219753 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.3668879 | 0.5219753 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.3668879 | 0.5219753 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.3668879 | 0.5219753 | FALSE |
| TC15000226.hg.1 | ENSG00000166923 | 0.3668879 | 0.5219753 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.3668879 | 0.5219753 | FALSE |
| TC21000345.hg.1 | ENSG00000154734 | 0.3668879 | 0.5219753 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.3668879 | 0.5219753 | FALSE |
| TC08001567.hg.1 | ENSG00000170961 | 0.3668879 | 0.5219753 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.3668879 | 0.5219753 | FALSE |
| TC14001188.hg.1 | ENSG00000126778 | 0.3668879 | 0.5219753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741 | 0.3668879 | 0.5219753 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.3668879 | 0.5219753 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.3668879 | 0.5219753 | FALSE |
| TC08001659.hg.1 | ENSG00000104419 | 0.3668879 | 0.5219753 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.3671263 | 0.5219753 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.3695662 | 0.5252699 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.3718705 | 0.5283697 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.3739218 | 0.5311079 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01001624.hg.1 | ENSG00000116741; | 0.3741503 | 0.5312562 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.3761929 | 0.5334927 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.3762239 | 0.5334927 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.3762239 | 0.5334927 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.3762239 | 0.5334927 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3762239 | 0.5334927 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824; | 0.3762239 | 0.5334927 | FALSE |
| TC06004055.hg.1 | ENSG00000047936; | 0.3777162 | 0.5349001 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.3777162 | 0.5349001 | FALSE |
| TC06001772.hg.1 | ENSG00000146233; | 0.3777162 | 0.5349001 | FALSE |
| TC01000115.hg.1 | ENSG00000171621; | 0.3824195 | 0.5412026 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.3839145 | 0.543049 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.3839145 | 0.543049 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.3841881 | 0.5431669 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.3848911 | 0.5439812 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.3888527 | 0.5461141 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.3888527 | 0.5461141 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.3890693 | 0.5461141 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.3903905 | 0.5461141 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950; | 0.3908576 | 0.5461141 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.3908576 | 0.5461141 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3908576 | 0.5461141 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.3925258 | 0.5461141 | FALSE |
| TC03000131.hg.1 | ENSG00000077092; | 0.3925258 | 0.5461141 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.3926673 | 0.5461141 | FALSE |
| TC09000560.hg.1 | ENSG00000148154 | 0.3926673 | 0.5461141 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.3926673 | 0.5461141 | FALSE |
| TC0X001186.hg.1 | ENSG00000072133 | 0.3926673 | 0.5461141 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.3926673 | 0.5461141 | FALSE |
| TC15000386.hg.1 | ENSG00000140285 | 0.3926673 | 0.5461141 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.3926673 | 0.5461141 | FALSE |
| TC03000262.hg.1 | ENSG00000160801 | 0.3926673 | 0.5461141 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.3926673 | 0.5461141 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.3926673 | 0.5461141 | FALSE |
| TC17001902.hg.1 | ENSG00000161544 | 0.3926673 | 0.5461141 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.3926673 | 0.5461141 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.3926673 | 0.5461141 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.3926673 | 0.5461141 | FALSE |
| TC02001750.hg.1 | ENSG00000138061 | 0.3926673 | 0.5461141 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.3926673 | 0.5461141 | FALSE |
| TC14000306.hg.1 | ENSG00000125384 | 0.3926673 | 0.5461141 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.3926673 | 0.5461141 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.3926673 | 0.5461141 | FALSE |
| TC10001571.hg.1 | ENSG00000120057 | 0.3926673 | 0.5461141 | FALSE |
| TC02000416.hg.1 | ENSG00000116005 | 0.3926673 | 0.5461141 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.3926673 | 0.5461141 | FALSE |
| TC10000350.hg.1 | ENSG00000107984 | 0.3926673 | 0.5461141 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.3926673 | 0.5461141 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.3926673 | 0.5461141 | FALSE |
| TC12001405.hg.1 | ENSG00000139174 | 0.3926673 | 0.5461141 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.3926673 | 0.5461141 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.3926673 | 0.5461141 | FALSE |
| TC14000067.hg.1 | ENSG00000181784 | 0.3926673 | 0.5461141 | FALSE |
| TC11000238.hg.1 | ENSG00000173432 | 0.3926673 | 0.5461141 | FALSE |
| TC03000846.hg.1 | ENSG00000196549 | 0.3926673 | 0.5461141 | FALSE |
| TC08001022.hg.1 | ENSG00000147408 | 0.3926673 | 0.5461141 | FALSE |
| TC08001022.hg.1 | ENSG00000147408 | 0.3926673 | 0.5461141 | FALSE |
| TC04000408.hg.1 | ENSG00000169429 | 0.3926673 | 0.5461141 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC22000259.hg.1 | ENSG00000100292 | 0.3926673 | 0.5461141 | FALSE |
| TC11000198.hg.1 | ENSG00000133816 | 0.3926673 | 0.5461141 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.3926673 | 0.5461141 | FALSE |
| TC17000158.hg.1 | ENSG00000141052 | 0.3926673 | 0.5461141 | FALSE |
| TC08000646.hg.1 | ENSG00000164932 | 0.3926673 | 0.5461141 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.3926673 | 0.5461141 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.3926673 | 0.5461141 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.3926673 | 0.5461141 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.3926673 | 0.5461141 | FALSE |
| TC08001062.hg.1 | ENSG00000159167 | 0.3926673 | 0.5461141 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.3926673 | 0.5461141 | FALSE |
| TC14001188.hg.1 | ENSG00000126778 | 0.3926673 | 0.5461141 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.3926673 | 0.5461141 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.3926673 | 0.5461141 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.3926673 | 0.5461141 | FALSE |
| TC22000620.hg.1 | ENSG00000169184 | 0.3926673 | 0.5461141 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.3940543 | 0.5461141 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.3981497 | 0.5516113 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.3995224 | 0.5533341 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.3999396 | 0.5534642 | FALSE |
| TC04000408.hg.1 | ENSG00000169429; | 0.3999396 | 0.5534642 | FALSE |
| TC05001110.hg.1; | ENSG00000153395; | 0.3999396 | 0.5534642 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.3999396 | 0.5534642 | FALSE |
| TC05003423.hg.1 | ENSG00000082196; | 0.4017986 | 0.5555877 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.4040217 | 0.558323 | FALSE |
| TC01000873.hg.1 | ENSG00000143036; | 0.4040375 | 0.558323 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.4053352 | 0.5596646 | FALSE |
| TC03002146.hg.1 | ENSG00000189058; | 0.4053352 | 0.5596646 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.4053352 | 0.5596646 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.4053352 | 0.5596646 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.4097176 | 0.5644098 | FALSE |
| TC01003605.hg.1 | ENSG00000135821; | 0.4109699 | 0.5644098 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.4109699 | 0.5644098 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.4109699 | 0.5644098 | FALSE |
| TC01001792.hg.1 | ENSG00000082482; | 0.4109699 | 0.5644098 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.4110456 | 0.5644098 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.4110456 | 0.5644098 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.4135085 | 0.5644098 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.4141344 | 0.5644098 | FALSE |
| TC10001769.hg.1 | ENSG00000176171 | 0.4173985 | 0.5644098 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.4173985 | 0.5644098 | FALSE |
| TC08001567.hg.1 | ENSG00000170961 | 0.4173985 | 0.5644098 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.4173985 | 0.5644098 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.4173985 | 0.5644098 | FALSE |
| TC03000013.hg.1 | ENSG00000150995 | 0.4173985 | 0.5644098 | FALSE |
| TC14001124.hg.1 | ENSG00000100504 | 0.4173985 | 0.5644098 | FALSE |
| TC16001281.hg.1 | ENSG00000183196 | 0.4173985 | 0.5644098 | FALSE |
| TC11002175.hg.1 | ENSG00000109861 | 0.4173985 | 0.5644098 | FALSE |
| TC03000631.hg.1 | ENSG00000114023 | 0.4173985 | 0.5644098 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.4173985 | 0.5644098 | FALSE |
| TC12000076.hg.1 | ENSG00000010278 | 0.4173985 | 0.5644098 | FALSE |
| TC02002808.hg.1 | ENSG00000116106 | 0.4173985 | 0.5644098 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.4173985 | 0.5644098 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.4173985 | 0.5644098 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.4173985 | 0.5644098 | FALSE |
| TC14000951.hg.1 | ENSG00000092068 | 0.4173985 | 0.5644098 | FALSE |
| TC18000552.hg.1 | ENSG00000197563 | 0.4173985 | 0.5644098 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.4173985 | 0.5644098 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03001071.hg.1 | ENSG00000114315 | 0.4173985 | 0.5644098 | FALSE |
| TC04002931.hg.1 | ENSG00000134853 | 0.4173985 | 0.5644098 | FALSE |
| TC0X002327.hg.1 | ENSG00000087842 | 0.4173985 | 0.5644098 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.4173985 | 0.5644098 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.4173985 | 0.5644098 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.4173985 | 0.5644098 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.4173985 | 0.5644098 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.4173985 | 0.5644098 | FALSE |
| TC03000013.hg.1 | ENSG00000150995 | 0.4173985 | 0.5644098 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.4173985 | 0.5644098 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.4173985 | 0.5644098 | FALSE |
| TC0X001186.hg.1 | ENSG00000072133 | 0.4173985 | 0.5644098 | FALSE |
| TC20000833.hg.1 | ENSG00000198959 | 0.4173985 | 0.5644098 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.4173985 | 0.5644098 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.4173985 | 0.5644098 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.4173985 | 0.5644098 | FALSE |
| TC01001736.hg.1 | ENSG00000196352 | 0.4173985 | 0.5644098 | FALSE |
| TC01000728.hg.1 | ENSG00000162433 | 0.4173985 | 0.5644098 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.4173985 | 0.5644098 | FALSE |
| TC03000631.hg.1 | ENSG00000114023 | 0.4173985 | 0.5644098 | FALSE |
| TC06002036.hg.1 | ENSG00000249853 | 0.4173985 | 0.5644098 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.4173985 | 0.5644098 | FALSE |
| TC03000917.hg.1 | ENSG00000136603 | 0.4173985 | 0.5644098 | FALSE |
| TC04002931.hg.1 | ENSG00000134853 | 0.4173985 | 0.5644098 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.4173985 | 0.5644098 | FALSE |
| TC08001062.hg.1 | ENSG00000159167 | 0.4173985 | 0.5644098 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.4173985 | 0.5644098 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.4173985 | 0.5644098 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.4173985 | 0.5644098 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.4173985 | 0.5644098 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.4173985 | 0.5644098 | FALSE |
| TC19000191.hg.1 | ENSG00000130164 | 0.4173985 | 0.5644098 | FALSE |
| TC14001443.hg.1 | ENSG00000140092 | 0.4173985 | 0.5644098 | FALSE |
| TC10000438.hg.1 | ENSG00000107731 | 0.4173985 | 0.5644098 | FALSE |
| TC10000438.hg.1 | ENSG00000107731 | 0.4173985 | 0.5644098 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.4174075 | 0.5644098 | FALSE |
| TC06000779.hg.1 | ENSG00000135318; | 0.4196451 | 0.5668089 | FALSE |
| TC16000193.hg.1 | ENSG00000103222; | 0.4196451 | 0.5668089 | FALSE |
| TC03001071.hg.1 | ENSG00000114315; | 0.4196451 | 0.5668089 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.4196451 | 0.5668089 | FALSE |
| TC17000220.hg.1 | ENSG00000108448; | 0.4196451 | 0.5668089 | FALSE |
| TC10000438.hg.1 | ENSG00000107731; | 0.4196451 | 0.5668089 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.4202625 | 0.5670166 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.4219365 | 0.5690062 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.4219365 | 0.5690062 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.4247745 | 0.5725629 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.429034 | 0.5781222 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.4294448 | 0.5784937 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.4307872 | 0.5801195 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.4323436 | 0.5820323 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.4328331 | 0.5823251 | FALSE |
| TC06000779.hg.1 | ENSG00000135318; | 0.4328331 | 0.5823251 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.4328331 | 0.5823251 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.433777 | 0.5826795 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.433777 | 0.5826795 | FALSE |
| TC01000394.hg.1 | ENSG00000159023; | 0.433777 | 0.5826795 | FALSE |
| TC08001275.hg.1 | ENSG00000172817; | 0.433777 | 0.5826795 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.433777 | 0.5826795 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03000214.hg.1 | ENSG00000168036; | 0.433777 | 0.5826795 | FALSE |
| TC07000328.hg.1 | ENSG00000146648; | 0.433777 | 0.5826795 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.4359742 | 0.5848968 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.4374583 | 0.5867039 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.441124 | 0.5878305 | FALSE |
| TC09000222.hg.1 | ENSG00000137124 | 0.441124 | 0.5878305 | FALSE |
| TC18000565.hg.1 | ENSG00000166479 | 0.441124 | 0.5878305 | FALSE |
| TC03003381.hg.1 | ENSG00000225697 | 0.441124 | 0.5878305 | FALSE |
| TC09000358.hg.1 | ENSG00000135069 | 0.441124 | 0.5878305 | FALSE |
| TC14001124.hg.1 | ENSG00000100504 | 0.441124 | 0.5878305 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.441124 | 0.5878305 | FALSE |
| TC01003718.hg.1 | ENSG00000133048 | 0.441124 | 0.5878305 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.441124 | 0.5878305 | FALSE |
| TC05000840.hg.1 | ENSG00000123643 | 0.441124 | 0.5878305 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.441124 | 0.5878305 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.441124 | 0.5878305 | FALSE |
| TC15000971.hg.1 | ENSG00000184254 | 0.441124 | 0.5878305 | FALSE |
| TC01000394.hg.1 | ENSG00000159023 | 0.441124 | 0.5878305 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.441124 | 0.5878305 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.441124 | 0.5878305 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.441124 | 0.5878305 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.441124 | 0.5878305 | FALSE |
| TC03001362.hg.1 | ENSG00000160808 | 0.441124 | 0.5878305 | FALSE |
| TC08001175.hg.1 | ENSG00000104368 | 0.441124 | 0.5878305 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.441124 | 0.5878305 | FALSE |
| TC09000347.hg.1 | ENSG00000099139 | 0.441124 | 0.5878305 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221 | 0.441124 | 0.5878305 | FALSE |
| TC14001364.hg.1 | ENSG00000211448 | 0.441124 | 0.5878305 | FALSE |
| TC14001124.hg.1 | ENSG00000100504 | 0.441124 | 0.5878305 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.441124 | 0.5878305 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.441124 | 0.5878305 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.441124 | 0.5878305 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.441124 | 0.5878305 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.441124 | 0.5878305 | FALSE |
| TC06002168.hg.1 | ENSG00000164442 | 0.441124 | 0.5878305 | FALSE |
| TC0Y000185.hg.1 | ENSG00000012817 | 0.441124 | 0.5878305 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.441124 | 0.5878305 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.441124 | 0.5878305 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.441124 | 0.5878305 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.441124 | 0.5878305 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.441124 | 0.5878305 | FALSE |
| TC07000449.hg.1 | ENSG00000049540 | 0.441124 | 0.5878305 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.4436535 | 0.5878305 | FALSE |
| TC01001907.hg.1 | ENSG00000143641; | 0.4477217 | 0.5923958 | FALSE |
| TC05000054.hg.1 | ENSG00000078295; | 0.4477217 | 0.5923958 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.4477217 | 0.5923958 | FALSE |
| TC20000876.hg.1 | ENSG00000124107; | 0.4477217 | 0.5923958 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.4477217 | 0.5923958 | FALSE |
| TC05000165.hg.1 | ENSG00000079215; | 0.4477217 | 0.5923958 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.4477217 | 0.5923958 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.4477217 | 0.5923958 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.4495834 | 0.5940328 | FALSE |
| TC04000253.hg.1 | ENSG00000154277; | 0.4543918 | 0.6001084 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.4543918 | 0.6001084 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.45557 | 0.6012935 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.45557 | 0.6012935 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.4570526 | 0.6029714 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.4572812 | 0.6030506 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01001688.hg.1 | ENSG0000058668; | 0.4573944 | 0.6030506 | FALSE |
| TC01003605.hg.1 | ENSG00000135821; | 0.4575592 | 0.6030822 | FALSE |
| TC04000699.hg.1 | ENSG00000109458; | 0.4614709 | 0.6042028 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.4614709 | 0.6042028 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.4614709 | 0.6042028 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.4638847 | 0.6042028 | FALSE |
| TC20000945.hg.1 | ENSG00000101115 | 0.4638847 | 0.6042028 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.4638847 | 0.6042028 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.4638847 | 0.6042028 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.4638847 | 0.6042028 | FALSE |
| TC22001467.hg.1 | ENSG00000128394 | 0.4638847 | 0.6042028 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.4638847 | 0.6042028 | FALSE |
| TC03001884.hg.1 | ENSG00000047457 | 0.4638847 | 0.6042028 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.4638847 | 0.6042028 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.4638847 | 0.6042028 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.4638847 | 0.6042028 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.4638847 | 0.6042028 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.4638847 | 0.6042028 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.4638847 | 0.6042028 | FALSE |
| TC03001466.hg.1 | ENSG00000163931 | 0.4638847 | 0.6042028 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.4638847 | 0.6042028 | FALSE |
| TC07000004.hg.1 | ENSG00000177706 | 0.4638847 | 0.6042028 | FALSE |
| TC03002146.hg.1 | ENSG00000189058 | 0.4638847 | 0.6042028 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.4638847 | 0.6042028 | FALSE |
| TC08001275.hg.1 | ENSG00000172817 | 0.4638847 | 0.6042028 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.4638847 | 0.6042028 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.4638847 | 0.6042028 | FALSE |
| TC04000408.hg.1 | ENSG00000169429 | 0.4638847 | 0.6042028 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.4638847 | 0.6042028 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.4638847 | 0.6042028 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.4638847 | 0.6042028 | FALSE |
| TC14000353.hg.1 | ENSG00000165617 | 0.4638847 | 0.6042028 | FALSE |
| TC01000728.hg.1 | ENSG00000162433 | 0.4638847 | 0.6042028 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.4638847 | 0.6042028 | FALSE |
| TC14001443.hg.1 | ENSG00000140092 | 0.4638847 | 0.6042028 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.4638847 | 0.6042028 | FALSE |
| TC03000131.hg.1 | ENSG00000077092 | 0.4638847 | 0.6042028 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.4638847 | 0.6042028 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.4638847 | 0.6042028 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.4638847 | 0.6042028 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.4638847 | 0.6042028 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.4638847 | 0.6042028 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.4638847 | 0.6042028 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.4638847 | 0.6042028 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.4638847 | 0.6042028 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.4638847 | 0.6042028 | FALSE |
| TC04002931.hg.1 | ENSG00000134853 | 0.4638847 | 0.6042028 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.4638847 | 0.6042028 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.4650428 | 0.6042028 | FALSE |
| TC06000595.hg.1 | ENSG00000112655; | 0.465747 | 0.6047506 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.465747 | 0.6047506 | FALSE |
| TC01000394.hg.1 | ENSG00000159023; | 0.465747 | 0.6047506 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.473611 | 0.6145888 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.4746969 | 0.6150159 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.4746969 | 0.6150159 | FALSE |
| TC03003381.hg.1 | ENSG00000225697; | 0.4746969 | 0.6150159 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.4746969 | 0.6150159 | FALSE |
| TC03000631.hg.1 | ENSG00000114023; | 0.4746969 | 0.6150159 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC02001206.hg.1 | ENSG00000118257; | 0.4750176 | 0.6150159 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950; | 0.4750176 | 0.6150159 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950; | 0.4750176 | 0.6150159 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.4750176 | 0.6150159 | FALSE |
| TC02002823.hg.1 | ENSG00000135919; | 0.4756013 | 0.6152135 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.4756013 | 0.6152135 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.4774247 | 0.6172924 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.4809076 | 0.6214226 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.4812798 | 0.6214226 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.4835895 | 0.6214226 | FALSE |
| TC14001124.hg.1 | ENSG00000100504 | 0.4857198 | 0.6214226 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.4857198 | 0.6214226 | FALSE |
| TC05001617.hg.1 | ENSG00000164307 | 0.4857198 | 0.6214226 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.4857198 | 0.6214226 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.4857198 | 0.6214226 | FALSE |
| TC01000783.hg.1 | ENSG00000117069 | 0.4857198 | 0.6214226 | FALSE |
| TC07001562.hg.1 | ENSG00000019991 | 0.4857198 | 0.6214226 | FALSE |
| TC17001902.hg.1 | ENSG00000161544 | 0.4857198 | 0.6214226 | FALSE |
| TC0Y000185.hg.1 | ENSG00000012817 | 0.4857198 | 0.6214226 | FALSE |
| TC05001617.hg.1 | ENSG00000164307 | 0.4857198 | 0.6214226 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.4857198 | 0.6214226 | FALSE |
| TC01000394.hg.1 | ENSG00000159023 | 0.4857198 | 0.6214226 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.4857198 | 0.6214226 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.4857198 | 0.6214226 | FALSE |
| TC17001830.hg.1 | ENSG00000154265 | 0.4857198 | 0.6214226 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.4857198 | 0.6214226 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.4857198 | 0.6214226 | FALSE |
| TC15000971.hg.1 | ENSG00000184254 | 0.4857198 | 0.6214226 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.4857198 | 0.6214226 | FALSE |
| TC12000076.hg.1 | ENSG00000010278 | 0.4857198 | 0.6214226 | FALSE |
| TC01003638.hg.1 | ENSG00000073756 | 0.4857198 | 0.6214226 | FALSE |
| TC05000914.hg.1 | ENSG00000145934 | 0.4857198 | 0.6214226 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.4857198 | 0.6214226 | FALSE |
| TC20000162.hg.1 | ENSG00000101463 | 0.4857198 | 0.6214226 | FALSE |
| TC20000162.hg.1 | ENSG00000101463 | 0.4857198 | 0.6214226 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.4857198 | 0.6214226 | FALSE |
| TC07001552.hg.1 | ENSG00000187391 | 0.4857198 | 0.6214226 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.4857198 | 0.6214226 | FALSE |
| TC02001100.hg.1 | ENSG00000138448 | 0.4857198 | 0.6214226 | FALSE |
| TC16000668.hg.1 | ENSG00000103241 | 0.4857198 | 0.6214226 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.4857198 | 0.6214226 | FALSE |
| TC12001916.hg.1 | ENSG00000074590 | 0.4857198 | 0.6214226 | FALSE |
| TC10000438.hg.1 | ENSG00000107731 | 0.4857198 | 0.6214226 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.4860625 | 0.6214226 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.4860625 | 0.6214226 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.4882867 | 0.6238881 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.4883553 | 0.6238881 | FALSE |
| TC01001607.hg.1 | ENSG00000116711; | 0.4913523 | 0.6275296 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.4924215 | 0.6286139 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.4924215 | 0.6286139 | FALSE |
| TC04000699.hg.1 | ENSG00000109458; | 0.4964221 | 0.6333431 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.4964221 | 0.6333431 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.5003767 | 0.6381033 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.50119 | 0.6385575 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.50119 | 0.6385575 | FALSE |
| TC05000243.hg.1 | ENSG00000095015; | 0.5014787 | 0.6385575 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.5014787 | 0.6385575 | FALSE |
| TC05000746.hg.1 | ENSG00000113209; | 0.5014787 | 0.6385575 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01001624.hg.1 | ENSG00000116741; | 0.5014787 | 0.6385575 | FALSE |
| TC05000243.hg.1 | ENSG00000095015; | 0.5014787 | 0.6385575 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.5032505 | 0.6401472 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.5032505 | 0.6401472 | FALSE |
| TC11000404.hg.1 | ENSG00000134574 | 0.5066669 | 0.6402697 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.5066669 | 0.6402697 | FALSE |
| TC18000548.hg.1 | ENSG00000183287 | 0.5066669 | 0.6402697 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.5066669 | 0.6402697 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.5066669 | 0.6402697 | FALSE |
| TC15001136.hg.1 | ENSG00000166664 | 0.5066669 | 0.6402697 | FALSE |
| TC01002195.hg.1 | ENSG00000116649 | 0.5066669 | 0.6402697 | FALSE |
| TC16001225.hg.1 | ENSG00000181019 | 0.5066669 | 0.6402697 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.5066669 | 0.6402697 | FALSE |
| TC01000728.hg.1 | ENSG00000162433 | 0.5066669 | 0.6402697 | FALSE |
| TC05001385.hg.1 | ENSG00000145632 | 0.5066669 | 0.6402697 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.5066669 | 0.6402697 | FALSE |
| TC12000621.hg.1 | ENSG00000135643 | 0.5066669 | 0.6402697 | FALSE |
| TC17000241.hg.1 | ENSG00000142494 | 0.5066669 | 0.6402697 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.5066669 | 0.6402697 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.5066669 | 0.6402697 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.5066669 | 0.6402697 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.5066669 | 0.6402697 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.5066669 | 0.6402697 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.5066669 | 0.6402697 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.5066669 | 0.6402697 | FALSE |
| TC18000047.hg.1 | ENSG00000168461 | 0.5066669 | 0.6402697 | FALSE |
| TC12001181.hg.1 | ENSG00000197614 | 0.5066669 | 0.6402697 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.5066669 | 0.6402697 | FALSE |
| TC13000147.hg.1 | ENSG00000102760 | 0.5066669 | 0.6402697 | FALSE |
| TC20000162.hg.1 | ENSG00000101463 | 0.5066669 | 0.6402697 | FALSE |
| TC11000404.hg.1 | ENSG00000134574 | 0.5066669 | 0.6402697 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.5066669 | 0.6402697 | FALSE |
| TC15000622.hg.1 | ENSG00000166949 | 0.5066669 | 0.6402697 | FALSE |
| TC08001567.hg.1 | ENSG00000170961 | 0.5066669 | 0.6402697 | FALSE |
| TC07000328.hg.1 | ENSG00000146648 | 0.5066669 | 0.6402697 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.5066669 | 0.6402697 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.5066669 | 0.6402697 | FALSE |
| TC21000345.hg.1 | ENSG00000154734 | 0.5066669 | 0.6402697 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.5066669 | 0.6402697 | FALSE |
| TC03000631.hg.1 | ENSG00000114023 | 0.5066669 | 0.6402697 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.5066669 | 0.6402697 | FALSE |
| TC12001181.hg.1 | ENSG00000197614 | 0.5066669 | 0.6402697 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.5066669 | 0.6402697 | FALSE |
| TC14000306.hg.1 | ENSG00000125384 | 0.5066669 | 0.6402697 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.5066669 | 0.6402697 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.5097031 | 0.6402697 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.5098919 | 0.6403189 | FALSE |
| TC02002419.hg.1 | ENSG00000115963; | 0.5116257 | 0.6423078 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.5132705 | 0.6441839 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.5143831 | 0.6449185 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.5143831 | 0.6449185 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.5143831 | 0.6449185 | FALSE |
| TC03001255.hg.1 | ENSG00000033867; | 0.5143831 | 0.6449185 | FALSE |
| TC0X000116.hg.1 | ENSG00000005889; | 0.5143831 | 0.6449185 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.5143831 | 0.6449185 | FALSE |
| TC02002605.hg.1 | ENSG00000064989; | 0.5168199 | 0.6472154 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.5168199 | 0.6472154 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.5185244 | 0.6490652 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01001805.hg.1 | ENSG00000092969; | 0.5199765 | 0.6506926 | FALSE |
| TC03000846.hg.1 | ENSG00000196549; | 0.5212938 | 0.6521504 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.521943 | 0.6521534 | FALSE |
| TC09000347.hg.1 | ENSG00000099139 | 0.526762 | 0.6521534 | FALSE |
| TC0Y000185.hg.1 | ENSG00000012817 | 0.526762 | 0.6521534 | FALSE |
| TC10001327.hg.1 | ENSG00000122877 | 0.526762 | 0.6521534 | FALSE |
| TC04002948.hg.1 | ENSG00000137463 | 0.526762 | 0.6521534 | FALSE |
| TC0Y000185.hg.1 | ENSG00000012817 | 0.526762 | 0.6521534 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.526762 | 0.6521534 | FALSE |
| TC14000067.hg.1 | ENSG00000181784 | 0.526762 | 0.6521534 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.526762 | 0.6521534 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.526762 | 0.6521534 | FALSE |
| TC05001617.hg.1 | ENSG00000164307 | 0.526762 | 0.6521534 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.526762 | 0.6521534 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.526762 | 0.6521534 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.526762 | 0.6521534 | FALSE |
| TC01002195.hg.1 | ENSG00000116649 | 0.526762 | 0.6521534 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.526762 | 0.6521534 | FALSE |
| TC17000383.hg.1 | ENSG00000108691 | 0.526762 | 0.6521534 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.526762 | 0.6521534 | FALSE |
| TC07001374.hg.1 | ENSG00000106070 | 0.526762 | 0.6521534 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.526762 | 0.6521534 | FALSE |
| TC04000729.hg.1 | ENSG00000151617 | 0.526762 | 0.6521534 | FALSE |
| TC04000408.hg.1 | ENSG00000169429 | 0.526762 | 0.6521534 | FALSE |
| TC14001141.hg.1 | ENSG00000197930 | 0.526762 | 0.6521534 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.526762 | 0.6521534 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.526762 | 0.6521534 | FALSE |
| TC17000158.hg.1 | ENSG00000141052 | 0.526762 | 0.6521534 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.526762 | 0.6521534 | FALSE |
| TC14001443.hg.1 | ENSG00000140092 | 0.526762 | 0.6521534 | FALSE |
| TC02001031.hg.1 | ENSG00000152256 | 0.526762 | 0.6521534 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.526762 | 0.6521534 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.526762 | 0.6521534 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.526762 | 0.6521534 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.526762 | 0.6521534 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.5270646 | 0.6521534 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.5270646 | 0.6521534 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.5270646 | 0.6521534 | FALSE |
| TC05000243.hg.1 | ENSG00000095015; | 0.5270646 | 0.6521534 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.527085 | 0.6521534 | FALSE |
| TC03002008.hg.1 | ENSG00000144959; | 0.5350448 | 0.6616969 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.5351795 | 0.6616969 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.5355711 | 0.6616969 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.5355711 | 0.6616969 | FALSE |
| TC04000469.hg.1 | ENSG00000163629; | 0.5355711 | 0.6616969 | FALSE |
| TC03001884.hg.1 | ENSG00000047457; | 0.5355711 | 0.6616969 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.5355711 | 0.6616969 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.537468 | 0.6634661 | FALSE |
| TC03001362.hg.1 | ENSG00000160808; | 0.5395199 | 0.6655193 | FALSE |
| TC06001029.hg.1 | ENSG00000112379; | 0.5395199 | 0.6655193 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.5395199 | 0.6655193 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.5395199 | 0.6655193 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.5418575 | 0.6679217 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.5425956 | 0.668639 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.5434981 | 0.6687124 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.5439803 | 0.6687124 | FALSE |
| TC06000004.hg.1 | ENSG00000112679 | 0.5460397 | 0.6687124 | FALSE |
| TC02000432.hg.1 | ENSG00000135636 | 0.5460397 | 0.6687124 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC10001711.hg.1 | ENSG00000066468 | 0.5460397 | 0.6687124 | FALSE |
| TC01002195.hg.1 | ENSG00000116649 | 0.5460397 | 0.6687124 | FALSE |
| TC17000241.hg.1 | ENSG00000142494 | 0.5460397 | 0.6687124 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.5460397 | 0.6687124 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.5460397 | 0.6687124 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.5460397 | 0.6687124 | FALSE |
| TC04000408.hg.1 | ENSG00000169429 | 0.5460397 | 0.6687124 | FALSE |
| TC03001362.hg.1 | ENSG00000160808 | 0.5460397 | 0.6687124 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.5460397 | 0.6687124 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.5460397 | 0.6687124 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.5460397 | 0.6687124 | FALSE |
| TC07001374.hg.1 | ENSG00000106070 | 0.5460397 | 0.6687124 | FALSE |
| TC12003293.hg.1 | ENSG00000180818 | 0.5460397 | 0.6687124 | FALSE |
| TC04000408.hg.1 | ENSG00000169429 | 0.5460397 | 0.6687124 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.5460397 | 0.6687124 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.5460397 | 0.6687124 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.5460397 | 0.6687124 | FALSE |
| TC01003497.hg.1 | ENSG00000117479 | 0.5460397 | 0.6687124 | FALSE |
| TC02002606.hg.1 | ENSG00000003436 | 0.5460397 | 0.6687124 | FALSE |
| TC03000631.hg.1 | ENSG00000114023 | 0.5460397 | 0.6687124 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.5465603 | 0.6687124 | FALSE |
| TC06001772.hg.1 | ENSG00000146233; | 0.5517464 | 0.6745755 | FALSE |
| TC01003638.hg.1 | ENSG00000073756; | 0.5517464 | 0.6745755 | FALSE |
| TC10000811.hg.1; | ENSG00000150594; | 0.5517464 | 0.6745755 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.5517464 | 0.6745755 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.5527353 | 0.6752061 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.5527353 | 0.6752061 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.5562332 | 0.6791884 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.5605595 | 0.6840189 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.5605595 | 0.6840189 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.5617592 | 0.6840189 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.5637421 | 0.6840189 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824; | 0.5637421 | 0.6840189 | FALSE |
| TC17001462.hg.1 | ENSG00000131747; | 0.5637421 | 0.6840189 | FALSE |
| TC10001711.hg.1; | ENSG00000066468; | 0.5637421 | 0.6840189 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.5637421 | 0.6840189 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.5645333 | 0.6840189 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.5645333 | 0.6840189 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.5645333 | 0.6840189 | FALSE |
| TC18000552.hg.1 | ENSG00000197563 | 0.5645333 | 0.6840189 | FALSE |
| TC11002162.hg.1 | ENSG00000137501 | 0.5645333 | 0.6840189 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.5645333 | 0.6840189 | FALSE |
| TC06002168.hg.1 | ENSG00000164442 | 0.5645333 | 0.6840189 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.5645333 | 0.6840189 | FALSE |
| TC07001630.hg.1 | ENSG00000070669 | 0.5645333 | 0.6840189 | FALSE |
| TC14000819.hg.1 | ENSG00000185100 | 0.5645333 | 0.6840189 | FALSE |
| TC14000819.hg.1 | ENSG00000185100 | 0.5645333 | 0.6840189 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.5645333 | 0.6840189 | FALSE |
| TC03001255.hg.1 | ENSG00000033867 | 0.5645333 | 0.6840189 | FALSE |
| TC03001590.hg.1 | ENSG00000184500 | 0.5645333 | 0.6840189 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.5645333 | 0.6840189 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.5645333 | 0.6840189 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.5645333 | 0.6840189 | FALSE |
| TC11002170.hg.1 | ENSG00000174804 | 0.5645333 | 0.6840189 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.5645333 | 0.6840189 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.5645333 | 0.6840189 | FALSE |
| TC17001830.hg.1 | ENSG00000154265 | 0.5645333 | 0.6840189 | FALSE |
| TC10000874.hg.1 | ENSG00000203805 | 0.5645333 | 0.6840189 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC06002168.hg.1 | ENSG00000164442 | 0.5645333 | 0.6840189 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.5645333 | 0.6840189 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.5645333 | 0.6840189 | FALSE |
| TC11000707.hg.1 | ENSG00000162337 | 0.5645333 | 0.6840189 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.5657816 | 0.6840189 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.5687255 | 0.6873839 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.56894 | 0.6874491 | FALSE |
| TC01001688.hg.1 | ENSG00000058668; | 0.5724334 | 0.691475 | FALSE |
| TC02001139.hg.1 | ENSG00000196950; | 0.5752032 | 0.6941087 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.5752032 | 0.6941087 | FALSE |
| TC04000313.hg.1 | ENSG00000157404; | 0.5752032 | 0.6941087 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.5755055 | 0.6941087 | FALSE |
| TC10001711.hg.1 | ENSG00000066468; | 0.5755055 | 0.6941087 | FALSE |
| TC07000137.hg.1 | ENSG00000136244; | 0.5755055 | 0.6941087 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.5755055 | 0.6941087 | FALSE |
| TC01000115.hg.1 | ENSG00000171621; | 0.5785654 | 0.6973082 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.5817685 | 0.6980253 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.5822745 | 0.6980253 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.5822745 | 0.6980253 | FALSE |
| TC18000047.hg.1 | ENSG00000168461 | 0.5822745 | 0.6980253 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.5822745 | 0.6980253 | FALSE |
| TC02002808.hg.1 | ENSG00000116106 | 0.5822745 | 0.6980253 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.5822745 | 0.6980253 | FALSE |
| TC01003718.hg.1 | ENSG00000133048 | 0.5822745 | 0.6980253 | FALSE |
| TC07001374.hg.1 | ENSG00000106070 | 0.5822745 | 0.6980253 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.5822745 | 0.6980253 | FALSE |
| TC07000643.hg.1 | ENSG00000106366 | 0.5822745 | 0.6980253 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.5822745 | 0.6980253 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.5822745 | 0.6980253 | FALSE |
| TC12001837.hg.1 | ENSG00000074527 | 0.5822745 | 0.6980253 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.5822745 | 0.6980253 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.5822745 | 0.6980253 | FALSE |
| TC05001385.hg.1 | ENSG00000145632 | 0.5822745 | 0.6980253 | FALSE |
| TC03001362.hg.1 | ENSG00000160808 | 0.5822745 | 0.6980253 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.5822745 | 0.6980253 | FALSE |
| TC07001374.hg.1 | ENSG00000106070 | 0.5822745 | 0.6980253 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.5825845 | 0.6980253 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.584496 | 0.7000217 | FALSE |
| TC06001772.hg.1 | ENSG00000146233; | 0.584496 | 0.7000217 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.5870356 | 0.70267 | FALSE |
| TC06000945.hg.1 | ENSG00000152661; | 0.5870356 | 0.70267 | FALSE |
| TC01001688.hg.1 | ENSG00000058668; | 0.5905109 | 0.7065336 | FALSE |
| TC01000115.hg.1 | ENSG00000171621; | 0.5918158 | 0.707897 | FALSE |
| TC01001473.hg.1 | ENSG00000143153; | 0.5927074 | 0.7087654 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.5929109 | 0.7088108 | FALSE |
| TC01000115.hg.1 | ENSG00000171621; | 0.5951068 | 0.7093939 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.5975873 | 0.7093939 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.5983319 | 0.7093939 | FALSE |
| TC02000466.hg.1 | ENSG00000159399; | 0.5983319 | 0.7093939 | FALSE |
| TC05001481.hg.1 | ENSG00000171617; | 0.5983319 | 0.7093939 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.5983319 | 0.7093939 | FALSE |
| TC03000131.hg.1 | ENSG00000077092; | 0.5983319 | 0.7093939 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.5983319 | 0.7093939 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.5983319 | 0.7093939 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.5983319 | 0.7093939 | FALSE |
| TC20000621.hg.1 | ENSG00000101384 | 0.599294 | 0.7093939 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.599294 | 0.7093939 | FALSE |
| TC01003129.hg.1 | ENSG00000143140 | 0.599294 | 0.7093939 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC12000621.hg.1 | ENSG00000135643 | 0.599294 | 0.7093939 | FALSE |
| TC05001617.hg.1 | ENSG00000164307 | 0.599294 | 0.7093939 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.599294 | 0.7093939 | FALSE |
| TC08001022.hg.1 | ENSG00000147408 | 0.599294 | 0.7093939 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.599294 | 0.7093939 | FALSE |
| TC18000565.hg.1 | ENSG00000166479 | 0.599294 | 0.7093939 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.599294 | 0.7093939 | FALSE |
| TC12003293.hg.1 | ENSG00000180818 | 0.599294 | 0.7093939 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.599294 | 0.7093939 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.599294 | 0.7093939 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.599294 | 0.7093939 | FALSE |
| TC02001100.hg.1 | ENSG00000138448 | 0.599294 | 0.7093939 | FALSE |
| TC12000227.hg.1 | ENSG00000172572 | 0.599294 | 0.7093939 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221 | 0.599294 | 0.7093939 | FALSE |
| TC05003423.hg.1 | ENSG00000082196 | 0.599294 | 0.7093939 | FALSE |
| TC08000127.hg.1 | ENSG00000003989 | 0.599294 | 0.7093939 | FALSE |
| TC14001124.hg.1 | ENSG00000100504 | 0.599294 | 0.7093939 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.599294 | 0.7093939 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.599294 | 0.7093939 | FALSE |
| TC02000286.hg.1 | ENSG00000171150 | 0.599294 | 0.7093939 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.599294 | 0.7093939 | FALSE |
| TC11002162.hg.1 | ENSG00000137501 | 0.599294 | 0.7093939 | FALSE |
| TC01003497.hg.1 | ENSG00000117479 | 0.599294 | 0.7093939 | FALSE |
| TC05000914.hg.1 | ENSG00000145934 | 0.599294 | 0.7093939 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.599294 | 0.7093939 | FALSE |
| TC02001628.hg.1 | ENSG00000084674 | 0.599294 | 0.7093939 | FALSE |
| TC09000358.hg.1 | ENSG00000135069 | 0.599294 | 0.7093939 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.6002963 | 0.7093939 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.6005241 | 0.7093939 | FALSE |
| TC01001688.hg.1 | ENSG00000058668; | 0.6005241 | 0.7093939 | FALSE |
| TC02000082.hg.1 | ENSG00000071575; | 0.6005241 | 0.7093939 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.6026886 | 0.7115582 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.6082499 | 0.7179261 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.6085642 | 0.7180991 | FALSE |
| TC07000643.hg.1 | ENSG00000106366; | 0.6093943 | 0.7186823 | FALSE |
| TC02002714.hg.1 | ENSG00000163251; | 0.6093943 | 0.7186823 | FALSE |
| TC20000876.hg.1 | ENSG00000124107; | 0.6093943 | 0.7186823 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.6115855 | 0.7208694 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.6148757 | 0.7238324 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.615621 | 0.7238324 | FALSE |
| TC01000728.hg.1 | ENSG00000162433 | 0.615621 | 0.7238324 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.615621 | 0.7238324 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.615621 | 0.7238324 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.615621 | 0.7238324 | FALSE |
| TC11000182.hg.1 | ENSG00000148926 | 0.615621 | 0.7238324 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.615621 | 0.7238324 | FALSE |
| TC07000328.hg.1 | ENSG00000146648 | 0.615621 | 0.7238324 | FALSE |
| TC01001805.hg.1 | ENSG00000092969 | 0.615621 | 0.7238324 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.615621 | 0.7238324 | FALSE |
| TC07000328.hg.1 | ENSG00000146648 | 0.615621 | 0.7238324 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.615621 | 0.7238324 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.615621 | 0.7238324 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.615621 | 0.7238324 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.615621 | 0.7238324 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.6201293 | 0.7274452 | FALSE |
| TC17001462.hg.1 | ENSG00000131747; | 0.6202231 | 0.7274452 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.6208442 | 0.7278745 | FALSE |
| TC03000986.hg.1 | ENSG00000163872; | 0.6208442 | 0.7278745 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC01001112.hg.1; | ENSG00000131778; | 0.6242305 | 0.7315442 | FALSE |
| TC01003605.hg.1; | ENSG00000135821; | 0.6256224 | 0.7329747 | FALSE |
| TC02000219.hg.1; | ENSG00000049323; | 0.6289749 | 0.7366 | FALSE |
| TC01001090.hg.1; | ENSG00000117289; | 0.6289749 | 0.7366 | FALSE |
| TC03001884.hg.1; | ENSG00000047457; | 0.630819 | 0.736885 | FALSE |
| TC07000137.hg.1; | ENSG00000136244; | 0.630819 | 0.736885 | FALSE |
| TC01000785.hg.1; | ENSG00000154027; | 0.6308704 | 0.736885 | FALSE |
| TC03002008.hg.1; | ENSG00000144959; | 0.6311382 | 0.736885 | FALSE |
| TC05000159.hg.1; | ENSG00000168685 | 0.6312838 | 0.736885 | FALSE |
| TC01001188.hg.1; | ENSG00000143369 | 0.6312838 | 0.736885 | FALSE |
| TC10000811.hg.1; | ENSG00000150594 | 0.6312838 | 0.736885 | FALSE |
| TC01000785.hg.1; | ENSG00000154027 | 0.6312838 | 0.736885 | FALSE |
| TC06000087.hg.1; | ENSG00000078401 | 0.6312838 | 0.736885 | FALSE |
| TC03000214.hg.1; | ENSG00000168036 | 0.6312838 | 0.736885 | FALSE |
| TC05000746.hg.1; | ENSG00000113209 | 0.6312838 | 0.736885 | FALSE |
| TC18000552.hg.1; | ENSG00000197563 | 0.6312838 | 0.736885 | FALSE |
| TC17000124.hg.1; | ENSG00000179593 | 0.6312838 | 0.736885 | FALSE |
| TC02002823.hg.1; | ENSG00000135919 | 0.6312838 | 0.736885 | FALSE |
| TC0X000943.hg.1; | ENSG00000198947 | 0.6312838 | 0.736885 | FALSE |
| TC02000891.hg.1; | ENSG00000150540 | 0.6312838 | 0.736885 | FALSE |
| TC01001805.hg.1; | ENSG00000092969 | 0.6312838 | 0.736885 | FALSE |
| TC12000227.hg.1; | ENSG00000172572 | 0.6312838 | 0.736885 | FALSE |
| TC04000313.hg.1; | ENSG00000157404; | 0.6374656 | 0.7425824 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.6387501 | 0.7438763 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.641183 | 0.7461006 | FALSE |
| TC08000508.hg.1; | ENSG00000104435; | 0.641183 | 0.7461006 | FALSE |
| TC02001628.hg.1; | ENSG00000084674; | 0.641183 | 0.7461006 | FALSE |
| TC10000406.hg.1; | ENSG00000138336; | 0.641183 | 0.7461006 | FALSE |
| TC07000137.hg.1; | ENSG00000136244; | 0.641183 | 0.7461006 | FALSE |
| TC02002808.hg.1; | ENSG00000116106; | 0.6458196 | 0.7494176 | FALSE |
| TC04000699.hg.1; | ENSG00000109458; | 0.6458196 | 0.7494176 | FALSE |
| TC03000214.hg.1; | ENSG00000168036 | 0.6463092 | 0.7494176 | FALSE |
| TC20000368.hg.1; | ENSG00000064655 | 0.6463092 | 0.7494176 | FALSE |
| TC06000087.hg.1; | ENSG00000078401 | 0.6463092 | 0.7494176 | FALSE |
| TC05000159.hg.1; | ENSG00000168685 | 0.6463092 | 0.7494176 | FALSE |
| TC04002931.hg.1; | ENSG00000134853 | 0.6463092 | 0.7494176 | FALSE |
| TC01000685.hg.1; | ENSG00000162409 | 0.6463092 | 0.7494176 | FALSE |
| TC17000241.hg.1; | ENSG00000142494 | 0.6463092 | 0.7494176 | FALSE |
| TC10000811.hg.1; | ENSG00000150594 | 0.6463092 | 0.7494176 | FALSE |
| TC06001027.hg.1; | ENSG00000118503 | 0.6463092 | 0.7494176 | FALSE |
| TC20000942.hg.1; | ENSG00000101096 | 0.6463092 | 0.7494176 | FALSE |
| TC03000013.hg.1; | ENSG00000150995 | 0.6463092 | 0.7494176 | FALSE |
| TC03000013.hg.1; | ENSG00000150995 | 0.6463092 | 0.7494176 | FALSE |
| TC03001362.hg.1; | ENSG00000160808 | 0.6463092 | 0.7494176 | FALSE |
| TC06000087.hg.1; | ENSG00000078401 | 0.6463092 | 0.7494176 | FALSE |
| TC04000313.hg.1; | ENSG00000157404 | 0.6463092 | 0.7494176 | FALSE |
| TC11002178.hg.1; | ENSG00000086991 | 0.6463092 | 0.7494176 | FALSE |
| TC04000432.hg.1; | ENSG00000156234 | 0.6463092 | 0.7494176 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.6493773 | 0.7511441 | FALSE |
| TC02002823.hg.1; | ENSG00000135919; | 0.6513163 | 0.7530817 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.6513163 | 0.7530817 | FALSE |
| TC01001188.hg.1; | ENSG00000143369; | 0.6540364 | 0.7557165 | FALSE |
| TC01003638.hg.1; | ENSG00000073756; | 0.6540364 | 0.7557165 | FALSE |
| TC04000699.hg.1; | ENSG00000109458; | 0.6540364 | 0.7557165 | FALSE |
| TC06001027.hg.1; | ENSG00000118503 | 0.6607232 | 0.7606302 | FALSE |
| TC19001103.hg.1; | ENSG00000125730 | 0.6607232 | 0.7606302 | FALSE |
| TC03001362.hg.1; | ENSG00000160808 | 0.6607232 | 0.7606302 | FALSE |
| TC01002954.hg.1; | ENSG00000134243 | 0.6607232 | 0.7606302 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC01000785.hg.1 | ENSG00000154027 | 0.6607232 | 0.7606302 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.6607232 | 0.7606302 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.6607232 | 0.7606302 | FALSE |
| TC04000432.hg.1 | ENSG00000156234 | 0.6607232 | 0.7606302 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.6607232 | 0.7606302 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.6607232 | 0.7606302 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.6607232 | 0.7606302 | FALSE |
| TC01001188.hg.1 | ENSG00000143369 | 0.6607232 | 0.7606302 | FALSE |
| TC16000571.hg.1 | ENSG00000198373 | 0.6607232 | 0.7606302 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.6607232 | 0.7606302 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.6612206 | 0.7606302 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.6612206 | 0.7606302 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.6621157 | 0.761353 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.6625448 | 0.7616418 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.6640183 | 0.7629988 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.6640816 | 0.7629988 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.6654265 | 0.7643389 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.6700574 | 0.7693484 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.6700574 | 0.7693484 | FALSE |
| TC11000404.hg.1 | ENSG00000134574; | 0.6708977 | 0.7697971 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824; | 0.6708977 | 0.7697971 | FALSE |
| TC15001110.hg.1 | ENSG00000104067; | 0.6708977 | 0.7697971 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.6745506 | 0.7726425 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.6745506 | 0.7726425 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.6745506 | 0.7726425 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.6745506 | 0.7726425 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.6745506 | 0.7726425 | FALSE |
| TC14002310.hg.1 | ENSG00000168398 | 0.6745506 | 0.7726425 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.6745506 | 0.7726425 | FALSE |
| TC04002931.hg.1 | ENSG00000134853 | 0.6745506 | 0.7726425 | FALSE |
| TC01001090.hg.1 | ENSG00000117289 | 0.6745506 | 0.7726425 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.6745506 | 0.7726425 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.6759078 | 0.7730594 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.6770613 | 0.7741719 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.6778616 | 0.7746731 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.6778616 | 0.7746731 | FALSE |
| TC01001188.hg.1 | ENSG00000143369; | 0.6778616 | 0.7746731 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.6792726 | 0.7758714 | FALSE |
| TC0X000038.hg.1 | ENSG00000073464; | 0.6803496 | 0.7766871 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.6803496 | 0.7766871 | FALSE |
| TC07000768.hg.1 | ENSG00000174697; | 0.6803496 | 0.7766871 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.6835885 | 0.7799687 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.6855283 | 0.7817653 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.6855283 | 0.7817653 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.6855283 | 0.7817653 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.6869639 | 0.7824973 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.6869639 | 0.7824973 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.6869639 | 0.7824973 | FALSE |
| TC09000965.hg.1 | ENSG00000147883 | 0.6878153 | 0.7824973 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.6878153 | 0.7824973 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.6878153 | 0.7824973 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.6878153 | 0.7824973 | FALSE |
| TC02000891.hg.1 | ENSG00000150540 | 0.6878153 | 0.7824973 | FALSE |
| TC05000054.hg.1 | ENSG00000078295 | 0.6878153 | 0.7824973 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.6878153 | 0.7824973 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.6878153 | 0.7824973 | FALSE |
| TC01000703.hg.1 | ENSG00000132849 | 0.6878153 | 0.7824973 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.6887687 | 0.7825422 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC14000067.hg.1 | ENSG00000181784; | 0.6895786 | 0.7831506 | FALSE |
| TC06000087.hg.1 | ENSG00000078401; | 0.6895786 | 0.7831506 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.692699 | 0.7863815 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.6935343 | 0.7870166 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.6935343 | 0.7870166 | FALSE |
| TC0X000038.hg.1 | ENSG00000073464; | 0.6985872 | 0.7911873 | FALSE |
| TC09000388.hg.1 | ENSG00000148053; | 0.6985872 | 0.7911873 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.6999827 | 0.7911873 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.7004511 | 0.7911873 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.7004511 | 0.7911873 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.7004978 | 0.7911873 | FALSE |
| TC0X001279.hg.1 | ENSG00000077274 | 0.7005401 | 0.7911873 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.7005401 | 0.7911873 | FALSE |
| TC18000552.hg.1 | ENSG00000197563 | 0.7005401 | 0.7911873 | FALSE |
| TC07001534.hg.1 | ENSG00000127946 | 0.7005401 | 0.7911873 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.7005401 | 0.7911873 | FALSE |
| TC01000728.hg.1 | ENSG00000162433 | 0.7005401 | 0.7911873 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.7005401 | 0.7911873 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.7005401 | 0.7911873 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.7005401 | 0.7911873 | FALSE |
| TC10002939.hg.1 | ENSG00000151303 | 0.7005401 | 0.7911873 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.7005401 | 0.7911873 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.7005401 | 0.7911873 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.7005401 | 0.7911873 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.7005401 | 0.7911873 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.7005401 | 0.7911873 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.7005401 | 0.7911873 | FALSE |
| TC09000965.hg.1 | ENSG00000147883 | 0.7005401 | 0.7911873 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.7005401 | 0.7911873 | FALSE |
| TC03000917.hg.1 | ENSG00000136603; | 0.7019223 | 0.7911873 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.7022539 | 0.7913527 | FALSE |
| TC01000972.hg.1 | ENSG00000064886; | 0.7047679 | 0.7939767 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.7071436 | 0.7958228 | FALSE |
| TC03001466.hg.1 | ENSG00000163931; | 0.707378 | 0.7958228 | FALSE |
| TC05000840.hg.1 | ENSG00000123643; | 0.707378 | 0.7958228 | FALSE |
| TC09000015.hg.1 | ENSG00000147852; | 0.707378 | 0.7958228 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.707378 | 0.7958228 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.707378 | 0.7958228 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.7077079 | 0.7958228 | FALSE |
| TC15001136.hg.1 | ENSG00000166664 | 0.712747 | 0.8001232 | FALSE |
| TC15001136.hg.1 | ENSG00000166664 | 0.712747 | 0.8001232 | FALSE |
| TC08001175.hg.1 | ENSG00000104368 | 0.712747 | 0.8001232 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.712747 | 0.8001232 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.712747 | 0.8001232 | FALSE |
| TC02000082.hg.1 | ENSG00000071575 | 0.712747 | 0.8001232 | FALSE |
| TC0X000034.hg.1 | ENSG00000146950 | 0.712747 | 0.8001232 | FALSE |
| TC05001617.hg.1 | ENSG00000164307 | 0.712747 | 0.8001232 | FALSE |
| TC02002624.hg.1 | ENSG00000115415 | 0.712747 | 0.8001232 | FALSE |
| TC07000328.hg.1 | ENSG00000146648 | 0.712747 | 0.8001232 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.712747 | 0.8001232 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.712747 | 0.8001232 | FALSE |
| TC03001823.hg.1 | ENSG00000114107; | 0.7148292 | 0.8010952 | FALSE |
| TC0X000038.hg.1 | ENSG00000073464; | 0.7159538 | 0.8019357 | FALSE |
| TC02001100.hg.1 | ENSG00000138448; | 0.7159538 | 0.8019357 | FALSE |
| TC05000243.hg.1 | ENSG00000095015; | 0.7159538 | 0.8019357 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.7188279 | 0.8046493 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.719038 | 0.8046493 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.7191282 | 0.8046493 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC01001112.hg.1; | ENSG00000131778; | 0.7206468 | 0.8061377 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.7216372 | 0.8069181 | FALSE |
| TC01000785.hg.1; | ENSG00000154027; | 0.7218157 | 0.8069181 | FALSE |
| TC03000214.hg.1; | ENSG00000168036; | 0.7218157 | 0.8069181 | FALSE |
| TC05000840.hg.1; | ENSG00000123643; | 0.7243175 | 0.8075559 | FALSE |
| TC08001659.hg.1; | ENSG00000104419; | 0.7243175 | 0.8075559 | FALSE |
| TC19001103.hg.1; | ENSG00000125730 | 0.724457 | 0.8075559 | FALSE |
| TC18000552.hg.1; | ENSG00000197563 | 0.724457 | 0.8075559 | FALSE |
| TC02000466.hg.1; | ENSG00000159399 | 0.724457 | 0.8075559 | FALSE |
| TC11000182.hg.1; | ENSG00000148926 | 0.724457 | 0.8075559 | FALSE |
| TC02001031.hg.1; | ENSG00000152256 | 0.724457 | 0.8075559 | FALSE |
| TC20000876.hg.1; | ENSG00000124107 | 0.724457 | 0.8075559 | FALSE |
| TC07000768.hg.1; | ENSG00000174697 | 0.724457 | 0.8075559 | FALSE |
| TC07000768.hg.1; | ENSG00000174697 | 0.724457 | 0.8075559 | FALSE |
| TC10001517.hg.1; | ENSG00000148677 | 0.724457 | 0.8075559 | FALSE |
| TC13000845.hg.1; | ENSG00000102452 | 0.724457 | 0.8075559 | FALSE |
| TC11000404.hg.1; | ENSG00000134574 | 0.724457 | 0.8075559 | FALSE |
| TC01001704.hg.1; | ENSG00000163531; | 0.7251215 | 0.8075559 | FALSE |
| TC01003211.hg.1; | ENSG00000143387; | 0.7286682 | 0.8112948 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.7290034 | 0.811457 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.7322642 | 0.8147885 | FALSE |
| TC05000840.hg.1; | ENSG00000123643; | 0.7324722 | 0.8147885 | FALSE |
| TC05000159.hg.1; | ENSG00000168685; | 0.7324722 | 0.8147885 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.7350474 | 0.8161702 | FALSE |
| TC09000388.hg.1; | ENSG00000148053 | 0.7356903 | 0.8161702 | FALSE |
| TC07001534.hg.1; | ENSG00000127946 | 0.7356903 | 0.8161702 | FALSE |
| TC05001519.hg.1; | ENSG00000113273 | 0.7356903 | 0.8161702 | FALSE |
| TC20000942.hg.1; | ENSG00000101096 | 0.7356903 | 0.8161702 | FALSE |
| TC04001084.hg.1; | ENSG00000109819 | 0.7356903 | 0.8161702 | FALSE |
| TC02002624.hg.1; | ENSG00000115415 | 0.7356903 | 0.8161702 | FALSE |
| TC09000388.hg.1; | ENSG00000148053 | 0.7356903 | 0.8161702 | FALSE |
| TC09000388.hg.1; | ENSG00000148053 | 0.7356903 | 0.8161702 | FALSE |
| TC10001711.hg.1; | ENSG00000066468 | 0.7356903 | 0.8161702 | FALSE |
| TC09001585.hg.1; | ENSG00000173611 | 0.7356903 | 0.8161702 | FALSE |
| TC07000768.hg.1; | ENSG00000174697 | 0.7356903 | 0.8161702 | FALSE |
| TC10001711.hg.1; | ENSG00000066468 | 0.7356903 | 0.8161702 | FALSE |
| TC02002624.hg.1; | ENSG00000115415 | 0.7356903 | 0.8161702 | FALSE |
| TC02000041.hg.1; | ENSG00000115738; | 0.7367647 | 0.8161702 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.7367647 | 0.8161702 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.7394894 | 0.8188707 | FALSE |
| TC06001027.hg.1; | ENSG00000118503; | 0.7404209 | 0.8194782 | FALSE |
| TC06000087.hg.1; | ENSG00000078401; | 0.7404209 | 0.8194782 | FALSE |
| TC15001110.hg.1; | ENSG00000104067; | 0.7404209 | 0.8194782 | FALSE |
| TC05001385.hg.1; | ENSG00000145632; | 0.741975 | 0.8206679 | FALSE |
| TC01003211.hg.1; | ENSG00000143387; | 0.741975 | 0.8206679 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.7425483 | 0.8209838 | FALSE |
| TC17001462.hg.1; | ENSG00000131747 | 0.7464664 | 0.8239226 | FALSE |
| TC02002823.hg.1; | ENSG00000135919 | 0.7464664 | 0.8239226 | FALSE |
| TC14000819.hg.1; | ENSG00000185100 | 0.7464664 | 0.8239226 | FALSE |
| TC17001462.hg.1; | ENSG00000131747 | 0.7464664 | 0.8239226 | FALSE |
| TC02002808.hg.1; | ENSG00000116106 | 0.7464664 | 0.8239226 | FALSE |
| TC09001585.hg.1; | ENSG00000173611 | 0.7464664 | 0.8239226 | FALSE |
| TC04000313.hg.1; | ENSG00000157404 | 0.7464664 | 0.8239226 | FALSE |
| TC18000047.hg.1; | ENSG00000168461 | 0.7464664 | 0.8239226 | FALSE |
| TC06000087.hg.1; | ENSG00000078401 | 0.7464664 | 0.8239226 | FALSE |
| TC02001031.hg.1; | ENSG00000152256; | 0.7471309 | 0.8239226 | FALSE |
| TC09000388.hg.1; | ENSG00000148053; | 0.7481669 | 0.8247194 | FALSE |
| TC01002166.hg.1; | ENSG00000116285; | 0.7481669 | 0.8247194 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC02001031.hg.1 | ENSG00000152256; | 0.7484314 | 0.8247194 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.7487583 | 0.8248673 | FALSE |
| TC02000270.hg.1 | ENSG00000152527; | 0.7510204 | 0.8270339 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.7511114 | 0.8270339 | FALSE |
| TC01001688.hg.1 | ENSG00000058668; | 0.753825 | 0.8298083 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.7547578 | 0.8306217 | FALSE |
| TC02000281.hg.1 | ENSG00000116016; | 0.7552306 | 0.8309283 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.7557135 | 0.8310325 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.7557135 | 0.8310325 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.7557135 | 0.8310325 | FALSE |
| TC09000358.hg.1 | ENSG00000135069 | 0.7568037 | 0.8311638 | FALSE |
| TC03000862.hg.1 | ENSG00000163661 | 0.7568037 | 0.8311638 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.7568037 | 0.8311638 | FALSE |
| TC12000803.hg.1 | ENSG00000166598 | 0.7568037 | 0.8311638 | FALSE |
| TC01000703.hg.1 | ENSG00000132849 | 0.7568037 | 0.8311638 | FALSE |
| TC10000663.hg.1 | ENSG00000095596 | 0.7568037 | 0.8311638 | FALSE |
| TC10000406.hg.1 | ENSG00000138336 | 0.7568037 | 0.8311638 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.7613622 | 0.835313 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.7615698 | 0.8353268 | FALSE |
| TC01001805.hg.1 | ENSG00000092969; | 0.763064 | 0.8367513 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.7647178 | 0.83835 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.7667201 | 0.8398053 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.7667201 | 0.8398053 | FALSE |
| TC01000785.hg.1 | ENSG00000154027 | 0.7667201 | 0.8398053 | FALSE |
| TC17000015.hg.1 | ENSG00000132386 | 0.7667201 | 0.8398053 | FALSE |
| TC01000904.hg.1 | ENSG00000162692; | 0.7670261 | 0.8398053 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.770222 | 0.8426579 | FALSE |
| TC02002808.hg.1 | ENSG00000116106; | 0.770222 | 0.8426579 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.770222 | 0.8426579 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.770222 | 0.8426579 | FALSE |
| TC09000388.hg.1 | ENSG00000148053; | 0.770222 | 0.8426579 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.7708161 | 0.8426618 | FALSE |
| TC02000286.hg.1 | ENSG00000171150; | 0.7729705 | 0.8448013 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.7742666 | 0.8460018 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.7762328 | 0.8468196 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.7762328 | 0.8468196 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.7762328 | 0.8468196 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.7762328 | 0.8468196 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.7762328 | 0.8468196 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.7762328 | 0.8468196 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.7762328 | 0.8468196 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.7762328 | 0.8468196 | FALSE |
| TC06000087.hg.1 | ENSG00000078401 | 0.7762328 | 0.8468196 | FALSE |
| TC10000406.hg.1 | ENSG00000138336; | 0.7771909 | 0.8468196 | FALSE |
| TC02000432.hg.1 | ENSG00000135636; | 0.7771909 | 0.8468196 | FALSE |
| TC02000432.hg.1 | ENSG00000135636; | 0.7771909 | 0.8468196 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.7776165 | 0.8468523 | FALSE |
| TC04002931.hg.1 | ENSG00000134853; | 0.7787901 | 0.8476991 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.7787901 | 0.8476991 | FALSE |
| TC02001628.hg.1 | ENSG00000084674; | 0.7787901 | 0.8476991 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.7803238 | 0.8489368 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.7808938 | 0.8492331 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.7808938 | 0.8492331 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.7815108 | 0.8495804 | FALSE |
| TC07000235.hg.1 | ENSG00000011426; | 0.7839741 | 0.8510556 | FALSE |
| TC03000013.hg.1 | ENSG00000150995; | 0.7839741 | 0.8510556 | FALSE |
| TC19001250.hg.1 | ENSG00000074181; | 0.7839741 | 0.8510556 | FALSE |
| TC08001659.hg.1 | ENSG00000104419; | 0.7839741 | 0.8510556 | FALSE |

| | | | | |
|-----------------|------------------|-----------|-----------|-------|
| TC03001884.hg.1 | ENSG00000047457; | 0.7839741 | 0.8510556 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.7841697 | 0.8510556 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.7853071 | 0.8510556 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.7853581 | 0.8510556 | FALSE |
| TC07001630.hg.1 | ENSG00000070669 | 0.7853581 | 0.8510556 | FALSE |
| TC14000819.hg.1 | ENSG00000185100 | 0.7853581 | 0.8510556 | FALSE |
| TC12003293.hg.1 | ENSG00000180818 | 0.7853581 | 0.8510556 | FALSE |
| TC14001141.hg.1 | ENSG00000197930 | 0.7853581 | 0.8510556 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.7853581 | 0.8510556 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.7853581 | 0.8510556 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.7853581 | 0.8510556 | FALSE |
| TC01003778.hg.1 | ENSG00000076356; | 0.7860485 | 0.8510556 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.7883088 | 0.853287 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.7890783 | 0.853904 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.7900612 | 0.8547515 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.7905753 | 0.8548757 | FALSE |
| TC21000241.hg.1 | ENSG00000197381; | 0.7905753 | 0.8548757 | FALSE |
| TC03000131.hg.1 | ENSG00000077092; | 0.7905753 | 0.8548757 | FALSE |
| TC08000508.hg.1 | ENSG00000104435 | 0.7941118 | 0.8581579 | FALSE |
| TC09000388.hg.1 | ENSG00000148053 | 0.7941118 | 0.8581579 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.7955155 | 0.859241 | FALSE |
| TC05001933.hg.1 | ENSG00000113721; | 0.7955155 | 0.859241 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.7962902 | 0.8597524 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.7971364 | 0.8604491 | FALSE |
| TC02001031.hg.1 | ENSG00000152256; | 0.7983199 | 0.8615093 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.799274 | 0.8621049 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.799274 | 0.8621049 | FALSE |
| TC01001112.hg.1 | ENSG00000131778; | 0.7994759 | 0.8621049 | FALSE |
| TC01003211.hg.1 | ENSG00000143387; | 0.8022878 | 0.8639694 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.802509 | 0.8639694 | FALSE |
| TC01000783.hg.1 | ENSG00000117069 | 0.802509 | 0.8639694 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.802509 | 0.8639694 | FALSE |
| TC02000432.hg.1 | ENSG00000135636 | 0.802509 | 0.8639694 | FALSE |
| TC02000891.hg.1 | ENSG00000150540 | 0.802509 | 0.8639694 | FALSE |
| TC03003365.hg.1 | ENSG00000176945; | 0.8026177 | 0.8639694 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.8032457 | 0.8643195 | FALSE |
| TC02000432.hg.1 | ENSG00000135636; | 0.8032457 | 0.8643195 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.8038284 | 0.8645182 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.8039353 | 0.8645182 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.8045559 | 0.8649683 | FALSE |
| TC02000219.hg.1 | ENSG00000049323; | 0.8060695 | 0.866378 | FALSE |
| TC02000041.hg.1 | ENSG00000115738; | 0.8100418 | 0.8696946 | FALSE |
| TC06004150.hg.1 | ENSG00000096060 | 0.8105642 | 0.8696946 | FALSE |
| TC14001141.hg.1 | ENSG00000197930 | 0.8105642 | 0.8696946 | FALSE |
| TC02000466.hg.1 | ENSG00000159399 | 0.8105642 | 0.8696946 | FALSE |
| TC10001711.hg.1 | ENSG00000066468 | 0.8105642 | 0.8696946 | FALSE |
| TC03002111.hg.1 | ENSG00000205835; | 0.8105917 | 0.8696946 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.8105917 | 0.8696946 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.8107804 | 0.8696946 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.8117976 | 0.8705676 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.8122622 | 0.8708476 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.812763 | 0.8711663 | FALSE |
| TC07001552.hg.1 | ENSG00000187391; | 0.8152307 | 0.8735927 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.8176681 | 0.8753288 | FALSE |
| TC01002166.hg.1 | ENSG00000116285; | 0.8180122 | 0.8753288 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.8182914 | 0.8753288 | FALSE |
| TC07000328.hg.1 | ENSG00000146648 | 0.8182914 | 0.8753288 | FALSE |
| TC16001225.hg.1 | ENSG00000181019 | 0.8182914 | 0.8753288 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC04002948.hg.1 | ENSG00000137463 | 0.8182914 | 0.8753288 | FALSE |
| TC07001898.hg.1 | ENSG00000182158 | 0.8182914 | 0.8753288 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.8182914 | 0.8753288 | FALSE |
| TC12001890.hg.1 | ENSG00000017427 | 0.8182914 | 0.8753288 | FALSE |
| TC04001084.hg.1 | ENSG00000109819 | 0.8182914 | 0.8753288 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.8191 | 0.8753288 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.8257037 | 0.8812117 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.8257037 | 0.8812117 | FALSE |
| TC03000214.hg.1 | ENSG00000168036 | 0.8257037 | 0.8812117 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.8257037 | 0.8812117 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.8257037 | 0.8812117 | FALSE |
| TC09000038.hg.1 | ENSG00000197646 | 0.8257037 | 0.8812117 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.8257037 | 0.8812117 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.8257037 | 0.8812117 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.8264576 | 0.8812117 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.826977 | 0.8814362 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.826977 | 0.8814362 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.828191 | 0.8823894 | FALSE |
| TC07000235.hg.1 | ENSG00000011426; | 0.8283866 | 0.8823894 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.8303454 | 0.8842559 | FALSE |
| TC01001624.hg.1 | ENSG00000116741; | 0.8318808 | 0.8856706 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.8321376 | 0.8856732 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.8324288 | 0.8856732 | FALSE |
| TC02000041.hg.1 | ENSG00000115738 | 0.8328142 | 0.8856732 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.8328142 | 0.8856732 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.8328142 | 0.8856732 | FALSE |
| TC04002948.hg.1 | ENSG00000137463 | 0.8328142 | 0.8856732 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.8352109 | 0.8876708 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.8364346 | 0.8887507 | FALSE |
| TC01001736.hg.1 | ENSG00000196352; | 0.8372584 | 0.8894053 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.839635 | 0.8909352 | FALSE |
| TC0X000943.hg.1 | ENSG00000198947 | 0.839635 | 0.8909352 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.839635 | 0.8909352 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.839635 | 0.8909352 | FALSE |
| TC04002948.hg.1 | ENSG00000137463 | 0.839635 | 0.8909352 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.8399473 | 0.8909352 | FALSE |
| TC03001823.hg.1 | ENSG00000114107; | 0.8412302 | 0.8919644 | FALSE |
| TC03001823.hg.1 | ENSG00000114107; | 0.8412302 | 0.8919644 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.8461779 | 0.8962117 | FALSE |
| TC02002143.hg.1 | ENSG00000204634 | 0.8461779 | 0.8962117 | FALSE |
| TC02002143.hg.1 | ENSG00000204634 | 0.8461779 | 0.8962117 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.8461779 | 0.8962117 | FALSE |
| TC02002143.hg.1 | ENSG00000204634 | 0.8461779 | 0.8962117 | FALSE |
| TC10000811.hg.1 | ENSG00000150594 | 0.8461779 | 0.8962117 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.8461779 | 0.8962117 | FALSE |
| TC01002616.hg.1 | ENSG00000117461; | 0.8521906 | 0.9015209 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.8524543 | 0.9015209 | FALSE |
| TC20000942.hg.1 | ENSG00000101096 | 0.8524543 | 0.9015209 | FALSE |
| TC07000328.hg.1 | ENSG00000146648 | 0.8524543 | 0.9015209 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.8549538 | 0.9036063 | FALSE |
| TC02000416.hg.1 | ENSG00000116005; | 0.8549538 | 0.9036063 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.8569069 | 0.9053352 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.8584749 | 0.9067681 | FALSE |
| TC05000165.hg.1 | ENSG00000079215; | 0.8614405 | 0.9096761 | FALSE |
| TC04000101.hg.1 | ENSG00000249811; | 0.8637447 | 0.9118844 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.8642502 | 0.9119682 | FALSE |
| TC05000159.hg.1 | ENSG00000168685 | 0.8642502 | 0.9119682 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.8642502 | 0.9119682 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC05001385.hg.1 | ENSG00000145632; | 0.8695023 | 0.9165715 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.8697067 | 0.9165715 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.8697902 | 0.9165715 | FALSE |
| TC18000552.hg.1 | ENSG00000197563 | 0.8697902 | 0.9165715 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.8697902 | 0.9165715 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.8697902 | 0.9165715 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.8735124 | 0.9199278 | FALSE |
| TC05001385.hg.1; | ENSG00000145632; | 0.8749965 | 0.9208116 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.8750376 | 0.9208116 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.8751044 | 0.9208116 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.8751044 | 0.9208116 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.8788584 | 0.9244208 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.880202 | 0.9256067 | FALSE |
| TC04001084.hg.1; | ENSG00000109819; | 0.8818783 | 0.9271417 | FALSE |
| TC07001562.hg.1; | ENSG00000019991; | 0.8822433 | 0.9272489 | FALSE |
| TC01000703.hg.1; | ENSG00000132849; | 0.8824135 | 0.9272489 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.8850919 | 0.9292651 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.8850919 | 0.9292651 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.8850919 | 0.9292651 | FALSE |
| TC09000038.hg.1 | ENSG00000197646 | 0.8850919 | 0.9292651 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.8850919 | 0.9292651 | FALSE |
| TC09000038.hg.1 | ENSG00000197646 | 0.8850919 | 0.9292651 | FALSE |
| TC05000243.hg.1; | ENSG00000095015; | 0.8860977 | 0.9294093 | FALSE |
| TC08001659.hg.1; | ENSG00000104419; | 0.8860977 | 0.9294093 | FALSE |
| TC01001090.hg.1; | ENSG00000117289; | 0.887267 | 0.9302939 | FALSE |
| TC02000511.hg.1 | ENSG00000168906 | 0.8897824 | 0.9323604 | FALSE |
| TC05001933.hg.1 | ENSG00000113721 | 0.8897824 | 0.9323604 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.8897824 | 0.9323604 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.8897824 | 0.9323604 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.8907853 | 0.9325313 | FALSE |
| TC02000416.hg.1; | ENSG00000116005; | 0.8907958 | 0.9325313 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.8909257 | 0.9325313 | FALSE |
| TC06001027.hg.1; | ENSG00000118503; | 0.8933699 | 0.9347468 | FALSE |
| TC05000165.hg.1; | ENSG00000079215; | 0.8933699 | 0.9347468 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.8942818 | 0.9350153 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.8942818 | 0.9350153 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.8942818 | 0.9350153 | FALSE |
| TC10001663.hg.1 | ENSG00000119927 | 0.8942818 | 0.9350153 | FALSE |
| TC14000067.hg.1; | ENSG00000181784; | 0.896842 | 0.93712 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.8975685 | 0.9376503 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.8985977 | 0.9382675 | FALSE |
| TC05001519.hg.1 | ENSG00000113273 | 0.8985977 | 0.9382675 | FALSE |
| TC05000701.hg.1 | ENSG00000120738 | 0.8985977 | 0.9382675 | FALSE |
| TC04000432.hg.1; | ENSG00000156234; | 0.9002087 | 0.9394913 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.9015188 | 0.9406292 | FALSE |
| TC01001624.hg.1; | ENSG00000116741; | 0.9026982 | 0.9416303 | FALSE |
| TC08000255.hg.1; | ENSG00000157168; | 0.9033844 | 0.9421166 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.9067089 | 0.9450749 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.9067089 | 0.9450749 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.9067089 | 0.9450749 | FALSE |
| TC01000394.hg.1; | ENSG00000159023; | 0.9071042 | 0.9450749 | FALSE |
| TC05001385.hg.1; | ENSG00000145632; | 0.9097038 | 0.9475528 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221 | 0.9105183 | 0.9475659 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.9105183 | 0.9475659 | FALSE |
| TC06000004.hg.1 | ENSG00000112679 | 0.9105183 | 0.9475659 | FALSE |
| TC10001517.hg.1 | ENSG00000148677 | 0.9105183 | 0.9475659 | FALSE |
| TC01001090.hg.1; | ENSG00000117289; | 0.9108231 | 0.9475659 | FALSE |
| TC04000253.hg.1; | ENSG00000154277; | 0.9140234 | 0.9505881 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC0Y000351.hg.1 | ENSG00000129824 | 0.9141722 | 0.9505881 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.9148664 | 0.9509635 | FALSE |
| TC07001562.hg.1 | ENSG00000019991; | 0.9148664 | 0.9509635 | FALSE |
| TC01000783.hg.1 | ENSG00000117069; | 0.9161876 | 0.9515819 | FALSE |
| TC01003211.hg.1; | ENSG00000143387; | 0.9165113 | 0.9515819 | FALSE |
| TC02000416.hg.1; | ENSG00000116005; | 0.9165328 | 0.9515819 | FALSE |
| TC02000416.hg.1; | ENSG00000116005; | 0.9165328 | 0.9515819 | FALSE |
| TC01001624.hg.1; | ENSG00000116741; | 0.9166839 | 0.9515819 | FALSE |
| TC02002823.hg.1 | ENSG00000135919 | 0.9176772 | 0.9521513 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.9176772 | 0.9521513 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.9176772 | 0.9521513 | FALSE |
| TC01002847.hg.1; | ENSG00000117228; | 0.9199917 | 0.9540902 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.9222857 | 0.9562376 | FALSE |
| TC05000159.hg.1; | ENSG00000168685; | 0.923672 | 0.9574431 | FALSE |
| TC05001519.hg.1 | ENSG00000113273 | 0.9242642 | 0.9577091 | FALSE |
| TC14000353.hg.1 | ENSG00000165617 | 0.9242642 | 0.9577091 | FALSE |
| TC01002578.hg.1; | ENSG00000117394; | 0.9255253 | 0.9586601 | FALSE |
| TC01002847.hg.1; | ENSG00000117228; | 0.9257419 | 0.9586601 | FALSE |
| TC02000416.hg.1; | ENSG00000116005; | 0.9286678 | 0.9613413 | FALSE |
| TC07000137.hg.1; | ENSG00000136244; | 0.9286678 | 0.9613413 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.9290517 | 0.96139 | FALSE |
| TC06001027.hg.1 | ENSG00000118503 | 0.9303249 | 0.9623586 | FALSE |
| TC08001590.hg.1 | ENSG00000156804 | 0.9303249 | 0.9623586 | FALSE |
| TC01000785.hg.1; | ENSG00000154027; | 0.9310407 | 0.9623654 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.9310484 | 0.9623654 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.9311537 | 0.9623654 | FALSE |
| TC04000432.hg.1; | ENSG00000156234; | 0.9313431 | 0.9623654 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.9331711 | 0.9640216 | FALSE |
| TC05001385.hg.1; | ENSG00000145632; | 0.9367394 | 0.9674744 | FALSE |
| TC03000214.hg.1; | ENSG00000168036; | 0.9380105 | 0.9683789 | FALSE |
| TC04000643.hg.1; | ENSG00000164070; | 0.9384508 | 0.9683789 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.93852 | 0.9683789 | FALSE |
| TC11000404.hg.1 | ENSG00000134574 | 0.93852 | 0.9683789 | FALSE |
| TC12000076.hg.1 | ENSG00000010278 | 0.93852 | 0.9683789 | FALSE |
| TC01002954.hg.1; | ENSG00000134243; | 0.9398527 | 0.9692123 | FALSE |
| TC02000511.hg.1; | ENSG00000168906; | 0.9401201 | 0.9692123 | FALSE |
| TC05001385.hg.1; | ENSG00000145632; | 0.9401201 | 0.9692123 | FALSE |
| TC03000214.hg.1; | ENSG00000168036; | 0.9408515 | 0.9696161 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.9434413 | 0.9720457 | FALSE |
| TC01001090.hg.1; | ENSG00000117289; | 0.9436631 | 0.9720457 | FALSE |
| TC11001948.hg.1 | ENSG00000175592 | 0.9457524 | 0.9739635 | FALSE |
| TC05001481.hg.1; | ENSG00000171617; | 0.946726 | 0.9747316 | FALSE |
| TC01001736.hg.1; | ENSG00000196352; | 0.9475599 | 0.9752383 | FALSE |
| TC04002948.hg.1; | ENSG00000137463; | 0.9475599 | 0.9752383 | FALSE |
| TC10001327.hg.1 | ENSG00000122877 | 0.9479692 | 0.9753079 | FALSE |
| TC01000785.hg.1; | ENSG00000154027; | 0.9484894 | 0.9756086 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.9500956 | 0.977026 | FALSE |
| TC03000248.hg.1; | ENSG00000144791; | 0.9506272 | 0.9773379 | FALSE |
| TC01001736.hg.1; | ENSG00000196352; | 0.9510568 | 0.9775448 | FALSE |
| TC19001103.hg.1 | ENSG00000125730 | 0.9521352 | 0.9783009 | FALSE |
| TC05000243.hg.1 | ENSG00000095015 | 0.9521352 | 0.9783009 | FALSE |
| TC02000511.hg.1; | ENSG00000168906; | 0.9531377 | 0.9789785 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.9540915 | 0.9792639 | FALSE |
| TC02002714.hg.1 | ENSG00000163251 | 0.9540915 | 0.9792639 | FALSE |
| TC22000259.hg.1 | ENSG00000100292 | 0.9540915 | 0.9792639 | FALSE |
| TC10000406.hg.1; | ENSG00000138336; | 0.9543305 | 0.9792639 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.955968 | 0.9804742 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.955968 | 0.9804742 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC19001103.hg.1 | ENSG00000125730 | 0.955968 | 0.9804742 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.9575892 | 0.9816147 | FALSE |
| TC05000165.hg.1 | ENSG00000079215 | 0.9577679 | 0.9816147 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.9594944 | 0.9831487 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.9606689 | 0.9840212 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.960843 | 0.9840212 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.9611503 | 0.9840212 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.9611503 | 0.9840212 | FALSE |
| TC01002578.hg.1 | ENSG00000117394; | 0.9621864 | 0.9847286 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.9632082 | 0.9855388 | FALSE |
| TC01001112.hg.1 | ENSG00000131778 | 0.9642622 | 0.9863815 | FALSE |
| TC02000891.hg.1 | ENSG00000150540; | 0.9668146 | 0.9883654 | FALSE |
| TC01000785.hg.1 | ENSG00000154027; | 0.9671223 | 0.9883654 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.9671251 | 0.9883654 | FALSE |
| TC02001100.hg.1 | ENSG00000138448 | 0.9671251 | 0.9883654 | FALSE |
| TC07000768.hg.1 | ENSG00000174697 | 0.9671251 | 0.9883654 | FALSE |
| TC17001462.hg.1 | ENSG00000131747; | 0.9677926 | 0.9885755 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.9684696 | 0.989031 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9704699 | 0.9908375 | FALSE |
| TC17001462.hg.1 | ENSG00000131747; | 0.9720292 | 0.9917579 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.9721822 | 0.9917579 | FALSE |
| TC12001807.hg.1 | ENSG00000133639 | 0.9721822 | 0.9917579 | FALSE |
| TC12001807.hg.1 | ENSG00000133639 | 0.9721822 | 0.9917579 | FALSE |
| TC02001100.hg.1 | ENSG00000138448 | 0.9721822 | 0.9917579 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.9733201 | 0.9921434 | FALSE |
| TC01000703.hg.1 | ENSG00000132849; | 0.9733713 | 0.9921434 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9739407 | 0.9924203 | FALSE |
| TC02000448.hg.1 | ENSG00000163017; | 0.9743378 | 0.9924203 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.9743384 | 0.9924203 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.974668 | 0.99252 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.9754583 | 0.9929704 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.9754583 | 0.9929704 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.9764624 | 0.993402 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.9764624 | 0.993402 | FALSE |
| TC07000852.hg.1 | ENSG00000181072 | 0.9764624 | 0.993402 | FALSE |
| TC03000214.hg.1 | ENSG00000168036; | 0.977383 | 0.9938662 | FALSE |
| TC11000174.hg.1 | ENSG00000166483 | 0.9783491 | 0.9943762 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.9783491 | 0.9943762 | FALSE |
| TC11000174.hg.1 | ENSG00000166483 | 0.9783491 | 0.9943762 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.9796572 | 0.9951952 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.979958 | 0.9951952 | FALSE |
| TC02000511.hg.1 | ENSG00000168906 | 0.9800848 | 0.9951952 | FALSE |
| TC06001027.hg.1 | ENSG00000118503; | 0.9803999 | 0.9952791 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.981089 | 0.9957425 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.9816815 | 0.9961078 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.9819491 | 0.9961431 | FALSE |
| TC12000803.hg.1 | ENSG00000166598; | 0.9830181 | 0.9969913 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9847556 | 0.998355 | FALSE |
| TC12001405.hg.1 | ENSG00000139174 | 0.9851362 | 0.998355 | FALSE |
| TC01000115.hg.1; | ENSG00000171621; | 0.9852478 | 0.998355 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9852954 | 0.998355 | FALSE |
| TC09000455.hg.1 | ENSG00000158079 | 0.9868882 | 0.9997323 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.9874251 | 1 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9881646 | 1 | FALSE |
| TC10000874.hg.1 | ENSG00000203805 | 0.9889077 | 1 | FALSE |
| TC06000945.hg.1 | ENSG00000152661 | 0.9893621 | 1 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.9902157 | 1 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.9902157 | 1 | FALSE |

| | | | | |
|------------------|------------------|-----------|---|-------|
| TC0Y000351.hg.1 | ENSG00000129824 | 0.9902157 | 1 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.991001 | 1 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9911297 | 1 | FALSE |
| TC17001462.hg.1 | ENSG00000131747; | 0.9911556 | 1 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.9911556 | 1 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.9914466 | 1 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.991473 | 1 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9923878 | 1 | FALSE |
| TC18000097.hg.1 | ENSG00000101773 | 0.9923878 | 1 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9929989 | 1 | FALSE |
| TC01001090.hg.1 | ENSG00000117289; | 0.9930557 | 1 | FALSE |
| TC01003172.hg.1 | ENSG00000203818; | 0.9931003 | 1 | FALSE |
| TC17001462.hg.1 | ENSG00000131747 | 0.9935611 | 1 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.9936553 | 1 | FALSE |
| TC01002954.hg.1 | ENSG00000134243 | 0.993825 | 1 | FALSE |
| TC02000511.hg.1 | ENSG00000168906 | 0.994321 | 1 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9955826 | 1 | FALSE |
| TC05001385.hg.1 | ENSG00000145632; | 0.9966005 | 1 | FALSE |
| TC03001823.hg.1 | ENSG00000114107; | 0.99665 | 1 | FALSE |
| TC12001807.hg.1 | ENSG00000133639 | 0.9968404 | 1 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.99697 | 1 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.9974377 | 1 | FALSE |
| TC04000313.hg.1 | ENSG00000157404 | 0.9974377 | 1 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.9977554 | 1 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.9979178 | 1 | FALSE |
| TC01002706.hg.1 | ENSG00000184292; | 0.9983396 | 1 | FALSE |
| TC01002954.hg.1 | ENSG00000134243; | 0.9983741 | 1 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.9986429 | 1 | FALSE |
| TC01000685.hg.1 | ENSG00000162409; | 0.9993735 | 1 | FALSE |
| TC12002155.hg.1 | ENSG00000176915 | 0.9993847 | 1 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.999404 | 1 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 0.9994547 | 1 | FALSE |
| TC01002669.hg.1 | ENSG00000157193; | 0.9995416 | 1 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824; | 0.999603 | 1 | FALSE |
| TC03000248.hg.1 | ENSG00000144791 | 0.9998755 | 1 | FALSE |
| TC04001084.hg.1 | ENSG00000109819; | 0.9999439 | 1 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.9999755 | 1 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.9999901 | 1 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.9999968 | 1 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.999999 | 1 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.9999992 | 1 | FALSE |
| TC01003629.hg.1 | ENSG00000116679; | 0.9999994 | 1 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.9999996 | 1 | FALSE |
| TC01002932.hg.1 | ENSG00000060718; | 0.9999998 | 1 | FALSE |
| TC01000728.hg.1 | ENSG00000162433; | 0.9999999 | 1 | FALSE |
| TC06004141.hg.1 | ENSG00000112096; | 1 | 1 | FALSE |
| TC01001112.hg.1; | ENSG00000131778; | 1 | 1 | FALSE |
| TC07001256.hg.1 | ENSG00000154678 | 1 | 1 | FALSE |
| TC07001256.hg.1 | ENSG00000154678 | 1 | 1 | FALSE |

| Names | Genes_In_Term | DEG | Input_gene |
|--|---------------|-----|------------------|
| Total | 18153 | 702 | - |
| GO:0005576//extracellular region | 2049 | 186 | TC01000139.hg.1; |
| GO:0005578//proteinaceous extracellular matrix | 325 | 54 | TC01001188.hg.1; |
| GO:0031012//extracellular matrix | 395 | 70 | TC01001188.hg.1; |
| GO:0044421//extracellular region part | 1093 | 123 | TC01000904.hg.1; |
| GO:0005615//extracellular space | 820 | 84 | TC01000904.hg.1; |
| GO:0044420//extracellular matrix part | 152 | 23 | TC01002284.hg.1; |
| GO:0005886//plasma membrane | 4087 | 214 | TC01000394.hg.1; |
| GO:0016020//membrane | 7384 | 349 | TC01000394.hg.1; |
| GO:0071944//cell periphery | 4180 | 216 | TC01000394.hg.1; |
| GO:0044425//membrane part | 5713 | 276 | TC01000394.hg.1; |
| GO:0031224//intrinsic to membrane | 5004 | 245 | TC01000723.hg.1; |
| GO:NM_0059 | 10 | 5 | TC02000511.hg.1; |
| GO:0016021//integral to membrane | 4884 | 237 | TC01000723.hg.1; |
| GO:0044459//plasma membrane part | 1883 | 106 | TC01000703.hg.1; |
| GO:0009986//cell surface | 494 | 38 | TC01000904.hg.1; |
| GO:0043025//neuronal cell body | 216 | 21 | TC01001805.hg.1; |
| GO:0031226//intrinsic to plasma membrane | 1212 | 73 | TC01000723.hg.1; |
| GO:0043205//fibril | 8 | 4 | TC01002284.hg.1; |
| GO:0005604//basement membrane | 75 | 11 | TC03002106.hg.1; |
| GO:0005887//integral to plasma membrane | 1162 | 70 | TC01000723.hg.1; |
| GO:0005783//endoplasmic reticulum | 1218 | 72 | TC01001607.hg.1; |
| GO:0044297//cell body | 244 | 22 | TC01001805.hg.1; |
| GO:0043005//neuron projection | 464 | 34 | TC01001805.hg.1; |
| GO:0097458//neuron part | 598 | 41 | TC01001805.hg.1; |
| GO:0016323//basolateral plasma membrane | 146 | 15 | TC01001473.hg.1; |
| GO:0005575//cellular_component | 15844 | 640 | TC01000100.hg.1; |
| GO:0005737//cytoplasm | 8351 | 364 | TC01000100.hg.1; |
| GO:0001527//microfibril | 6 | 3 | TC01002284.hg.1; |
| GO:0043235//receptor complex | 161 | 15 | TC01001095.hg.1; |
| GO:0031983//vesicle lumen | 62 | 8 | TC02001628.hg.1; |
| GO:0002116//semaphorin receptor complex | 8 | 3 | TC01003778.hg.1; |
| GO:0005788//endoplasmic reticulum lumen | 141 | 13 | TC01002932.hg.1; |
| GO:0031091//platelet alpha granule | 51 | 7 | TC02002823.hg.1; |
| GO:0045177//apical part of cell | 264 | 20 | TC01000703.hg.1; |
| GO:0008305//integrin complex | 27 | 5 | TC01001095.hg.1; |
| GO:0034358//plasma lipoprotein particle | 39 | 6 | TC02000416.hg.1; |
| GO:0005911//cell-cell junction | 249 | 19 | TC01000703.hg.1; |
| GO:NR_0014 | 9 | 3 | TC06004066.hg.1; |
| GO:0032994//protein-lipid complex | 40 | 6 | TC02000416.hg.1; |
| GO:0042995//cell projection | 1055 | 58 | TC01000904.hg.1; |
| GO:0034774//secretory granule lumen | 54 | 7 | TC03001590.hg.1; |
| GO:0030424//axon | 207 | 16 | TC01001805.hg.1; |
| GO:0005905//coated pit | 45 | 6 | TC01000734.hg.1; |
| GO:0044432//endoplasmic reticulum part | 871 | 48 | TC01001607.hg.1; |
| GO:0060205//cytoplasmic membrane-bounded vesicle lumen | 61 | 7 | TC03001590.hg.1; |
| GO:0030132//clathrin coat of coated pit | 12 | 3 | TC01000734.hg.1; |
| GO:0009897//external side of plasma membrane | 200 | 15 | TC01000904.hg.1; |
| GO:0012505//endomembrane system | 1516 | 76 | TC01000734.hg.1; |
| GO:0060076//excitatory synapse | 13 | 3 | TC09000388.hg.1; |
| GO:0034361//very-low-density lipoprotein particle | 24 | 4 | TC02000416.hg.1; |
| GO:0034385//triglyceride-rich lipoprotein particle | 24 | 4 | TC02000416.hg.1; |
| GO:0042827//platelet dense granule | 5 | 2 | TC03000013.hg.1; |
| GO:0048471//perinuclear region of cytoplasm | 387 | 24 | TC01000703.hg.1; |
| GO:0005741//mitochondrial outer membrane | 101 | 9 | TC02000466.hg.1; |
| GO:0005913//cell-cell adherens junction | 39 | 5 | TC03000214.hg.1; |
| GO:0031093//platelet alpha granule lumen | 39 | 5 | TC03001590.hg.1; |

| | | | |
|--|------|-----|------------------|
| GO:0005581//collagen | 69 | 7 | TC01002932.hg.1; |
| GO:0030426//growth cone | 69 | 7 | TC02002808.hg.1; |
| GO:0030125//clathrin vesicle coat | 15 | 3 | TC01000734.hg.1; |
| GO:0030425//dendrite | 194 | 14 | TC01002954.hg.1; |
| GO:0005794//Golgi apparatus | 1093 | 56 | TC01000394.hg.1; |
| GO:0014704//intercalated disc | 27 | 4 | TC01003129.hg.1; |
| GO:0030864//cortical actin cytoskeleton | 27 | 4 | TC01000394.hg.1; |
| GO:0030122//AP-2 adaptor complex | 6 | 2 | TC01000734.hg.1; |
| GO:0030173//integral to Golgi membrane | 41 | 5 | TC01000783.hg.1; |
| GO:0016324//apical plasma membrane | 196 | 14 | TC01000703.hg.1; |
| GO:0000139//Golgi membrane | 523 | 30 | TC01000783.hg.1; |
| GO:0031988//membrane-bounded vesicle | 875 | 46 | TC01000734.hg.1; |
| GO:0019867//outer membrane | 124 | 10 | TC02000466.hg.1; |
| GO:0005583//fibrillar collagen | 16 | 3 | TC01002932.hg.1; |
| GO:0030427//site of polarized growth | 73 | 7 | TC02002808.hg.1; |
| GO:0031228//intrinsic to Golgi membrane | 43 | 5 | TC01000783.hg.1; |
| GO:0005789//endoplasmic reticulum membrane | 750 | 40 | TC01001607.hg.1; |
| GO:0030141//secretory granule | 223 | 15 | TC02002823.hg.1; |
| GO:0044291//cell-cell contact zone | 30 | 4 | TC01003129.hg.1; |
| GO:0005606//laminin-1 complex | 7 | 2 | TC06000976.hg.1; |
| GO:0030128//clathrin coat of endocytic vesicle | 7 | 2 | TC01000734.hg.1; |
| GO:0032580//Golgi cisterna membrane | 62 | 6 | TC01001907.hg.1; |
| GO:0042175//nuclear outer membrane-endoplasmic reticulum r | 764 | 40 | TC01001607.hg.1; |
| GO:0031982//vesicle | 949 | 48 | TC01000734.hg.1; |
| GO:0005605//basal lamina | 19 | 3 | TC06000976.hg.1; |
| GO:0043204//perikaryon | 33 | 4 | TC02002808.hg.1; |
| GO:0045121//membrane raft | 174 | 12 | TC01001473.hg.1; |
| GO:0043292//contractile fiber | 136 | 10 | TC01002530.hg.1; |
| GO:0031968//organelle outer membrane | 118 | 9 | TC02000466.hg.1; |
| GO:0044306//neuron projection terminus | 49 | 5 | TC02002808.hg.1; |
| GO:0070161//anchoring junction | 196 | 13 | TC02001031.hg.1; |
| GO:0044449//contractile fiber part | 120 | 9 | TC01002530.hg.1; |
| GO:0044444//cytoplasmic part | 6139 | 259 | TC01000394.hg.1; |
| GO:0030877//beta-catenin destruction complex | 9 | 2 | TC03000214.hg.1; |
| GO:0044295//axonal growth cone | 9 | 2 | TC02002808.hg.1; |
| GO:0005637//nuclear inner membrane | 35 | 4 | TC01003791.hg.1; |
| GO:0070062//extracellular vesicular exosome | 69 | 6 | TC06000779.hg.1; |
| GO:0043230//extracellular organelle | 70 | 6 | TC06000779.hg.1; |
| GO:0065010//extracellular membrane-bounded organelle | 70 | 6 | TC06000779.hg.1; |
| GO:0043256//laminin complex | 10 | 2 | TC06000976.hg.1; |
| GO:0030017//sarcomere | 107 | 8 | TC01002530.hg.1; |
| GO:0030118//clathrin coat | 38 | 4 | TC01000734.hg.1; |
| GO:0031674//I band | 72 | 6 | TC01002530.hg.1; |
| GO:0031985//Golgi cisterna | 72 | 6 | TC01001907.hg.1; |
| GO:0042612//MHC class I protein complex | 55 | 5 | TC06001089.hg.1; |
| GO:0015629//actin cytoskeleton | 335 | 19 | TC01000394.hg.1; |
| GO:0044431//Golgi apparatus part | 623 | 32 | TC01000783.hg.1; |
| GO:0005916//fascia adherens | 11 | 2 | TC03000214.hg.1; |
| GO:0042627//chylomicron | 11 | 2 | TC02001628.hg.1; |
| GO:0031984//organelle subcompartment | 74 | 6 | TC01001907.hg.1; |
| GO:0031225//anchored to membrane | 131 | 9 | TC01001736.hg.1; |
| GO:0030054//cell junction | 651 | 33 | TC01000703.hg.1; |
| GO:0031904//endosome lumen | 12 | 2 | TC01003211.hg.1; |
| GO:0031090//organelle membrane | 2205 | 98 | TC01000734.hg.1; |
| GO:0016605//PML body | 77 | 6 | TC03000917.hg.1; |
| GO:0030131//clathrin adaptor complex | 26 | 3 | TC01000734.hg.1; |
| GO:0043296//apical junction complex | 97 | 7 | TC01000703.hg.1; |
| GO:0030175//filopodium | 43 | 4 | TC01000904.hg.1; |

| | | | |
|---|-----|----|------------------|
| GO:0045178//basal part of cell | 27 | 3 | TC01002706.hg.1; |
| GO:0030669//clathrin-coated endocytic vesicle membrane | 61 | 5 | TC01000734.hg.1; |
| GO:0031528//microvillus membrane | 13 | 2 | TC03000214.hg.1; |
| GO:0005921//gap junction | 28 | 3 | TC01003129.hg.1; |
| GO:0016328//lateral plasma membrane | 28 | 3 | TC01002706.hg.1; |
| GO:0005923//tight junction | 82 | 6 | TC01000703.hg.1; |
| GO:0070160//occluding junction | 82 | 6 | TC01000703.hg.1; |
| GO:0005912//adherens junction | 183 | 11 | TC02001031.hg.1; |
| GO:0045334//clathrin-coated endocytic vesicle | 64 | 5 | TC01000734.hg.1; |
| GO:0030863//cortical cytoskeleton | 47 | 4 | TC01000394.hg.1; |
| GO:0030016//myofibril | 124 | 8 | TC01002530.hg.1; |
| GO:0030057//desmosome | 15 | 2 | TC06002157.hg.1; |
| GO:0030027//lamellipodium | 106 | 7 | TC02000270.hg.1; |
| GO:0030120//vesicle coat | 32 | 3 | TC01000734.hg.1; |
| GO:0005922//connexon complex | 16 | 2 | TC01003129.hg.1; |
| GO:0016023//cytoplasmic membrane-bounded vesicle | 811 | 38 | TC01000734.hg.1; |
| GO:0030119//AP-type membrane coat adaptor complex | 33 | 3 | TC01000734.hg.1; |
| GO:0031526//brush border membrane | 33 | 3 | TC03000262.hg.1; |
| GO:0046658//anchored to plasma membrane | 33 | 3 | TC05000478.hg.1; |
| GO:0030055//cell-substrate junction | 132 | 8 | TC02001031.hg.1; |
| GO:0031410//cytoplasmic vesicle | 867 | 40 | TC01000734.hg.1; |
| GO:0005903//brush border | 53 | 4 | TC03000262.hg.1; |
| GO:0005614//interstitial matrix | 18 | 2 | TC06001189.hg.1; |
| GO:0030140//trans-Golgi network transport vesicle | 18 | 2 | TC01002954.hg.1; |
| GO:0042383//sarcolemma | 74 | 5 | TC01000904.hg.1; |
| GO:0016010//dystrophin-associated glycoprotein complex | 19 | 2 | TC05000860.hg.1; |
| GO:0034362//low-density lipoprotein particle | 19 | 2 | TC02001628.hg.1; |
| GO:0005667//transcription factor complex | 249 | 13 | TC01003629.hg.1; |
| GO:0014069//postsynaptic density | 76 | 5 | TC02002808.hg.1; |
| GO:0005791//rough endoplasmic reticulum | 37 | 3 | TC04001245.hg.1; |
| GO:0005902//microvillus | 57 | 4 | TC01000904.hg.1; |
| GO:0000015//phosphopyruvate hydratase complex | 5 | 1 | TC12000099.hg.1 |
| GO:0005593//FACIT collagen | 5 | 1 | TC08000700.hg.1 |
| GO:0005826//actomyosin contractile ring | 5 | 1 | TC07000235.hg.1 |
| GO:0036021//endolysosome lumen | 5 | 1 | TC01003211.hg.1 |
| GO:0044453//nuclear membrane part | 5 | 1 | TC01003887.hg.1 |
| GO:0071437//invadopodium | 5 | 1 | TC02002480.hg.1 |
| GO:NM_0032 | 5 | 1 | TC09001058.hg.1 |
| GO:NM_0041 | 5 | 1 | TC09001345.hg.1 |
| GO:NM_0149 | 5 | 1 | TC12000656.hg.1 |
| GO:NM_1985 | 5 | 1 | TC02000705.hg.1 |
| GO:0044433//cytoplasmic vesicle part | 413 | 20 | TC01000734.hg.1; |
| GO:0005795//Golgi stack | 100 | 6 | TC01001907.hg.1; |
| GO:0009925//basal plasma membrane | 21 | 2 | TC01002706.hg.1; |
| GO:0043198//dendritic shaft | 21 | 2 | TC11002435.hg.1; |
| GO:0005901//caveola | 60 | 4 | TC01001473.hg.1; |
| GO:0008076//voltage-gated potassium channel complex | 60 | 4 | TC06000728.hg.1; |
| GO:0034705//potassium channel complex | 60 | 4 | TC06000728.hg.1; |
| GO:0045202//synapse | 400 | 19 | TC02002808.hg.1; |
| GO:0030018//Z disc | 61 | 4 | TC01002530.hg.1; |
| GO:0014731//spectrin-associated cytoskeleton | 6 | 1 | TC01000394.hg.1 |
| GO:0016012//sarcoglycan complex | 6 | 1 | TC05000860.hg.1 |
| GO:0016342//catenin complex | 6 | 1 | TC03000214.hg.1 |
| GO:0019907//cyclin-dependent protein kinase activating kinase | 6 | 1 | TC12003293.hg.1 |
| GO:0031092//platelet alpha granule membrane | 6 | 1 | TC12000076.hg.1 |
| GO:0032809//neuronal cell body membrane | 6 | 1 | TC20000926.hg.1 |
| GO:0033270//paranode region of axon | 6 | 1 | TC17000533.hg.1 |
| GO:0044298//cell body membrane | 6 | 1 | TC20000926.hg.1 |

| | | | |
|--|-----|----|------------------|
| GO:0070382//exocytic vesicle | 6 | 1 | TC11002162.hg.1 |
| GO:NR_0021 | 6 | 1 | TC06001332.hg.1 |
| GO:0030665//clathrin-coated vesicle membrane | 126 | 7 | TC01000734.hg.1; |
| GO:0005924//cell-substrate adherens junction | 128 | 7 | TC02001031.hg.1; |
| GO:0044448//cell cortex part | 86 | 5 | TC01000394.hg.1; |
| GO:0001939//female pronucleus | 7 | 1 | TC01002578.hg.1 |
| GO:0008091//spectrin | 7 | 1 | TC01000394.hg.1 |
| GO:0016011//dystroglycan complex | 7 | 1 | TC05000860.hg.1 |
| GO:0016327//apicolateral plasma membrane | 7 | 1 | TC15001110.hg.1 |
| GO:0016442//RNA-induced silencing complex | 7 | 1 | TC03000248.hg.1 |
| GO:0030130//clathrin coat of trans-Golgi network vesicle | 7 | 1 | TC22000487.hg.1 |
| GO:0031232//extrinsic to external side of plasma membrane | 7 | 1 | TC02002823.hg.1 |
| GO:0031332//RNAi effector complex | 7 | 1 | TC03000248.hg.1 |
| GO:0032590//dendrite membrane | 7 | 1 | TC20000926.hg.1 |
| GO:0036056//filtration diaphragm | 7 | 1 | TC07001552.hg.1 |
| GO:0036057//slit diaphragm | 7 | 1 | TC07001552.hg.1 |
| GO:0046581//intercellular canaliculus | 7 | 1 | TC15001110.hg.1 |
| GO:NM_0124 | 7 | 1 | TC17001886.hg.1 |
| GO:0000323//lytic vacuole | 364 | 17 | TC01002441.hg.1; |
| GO:0005764//lysosome | 364 | 17 | TC01002441.hg.1; |
| GO:0032589//neuron projection membrane | 25 | 2 | TC17001353.hg.1; |
| GO:0055038//recycling endosome membrane | 25 | 2 | TC08001659.hg.1; |
| GO:0045211//postsynaptic membrane | 155 | 8 | TC02002808.hg.1; |
| GO:0030667//secretory granule membrane | 46 | 3 | TC03000013.hg.1; |
| GO:0012510//trans-Golgi network transport vesicle membrane | 8 | 1 | TC22000487.hg.1 |
| GO:0070938//contractile ring | 8 | 1 | TC07000235.hg.1 |
| GO:NM_0068 | 8 | 1 | TC10002938.hg.1 |
| GO:0030136//clathrin-coated vesicle | 209 | 10 | TC01000734.hg.1; |
| GO:0019897//extrinsic to plasma membrane | 71 | 4 | TC01002166.hg.1; |
| GO:0030117//membrane coat | 71 | 4 | TC01000734.hg.1; |
| GO:0043202//lysosomal lumen | 71 | 4 | TC01003211.hg.1; |
| GO:0048475//coated membrane | 71 | 4 | TC01000734.hg.1; |
| GO:0031252//cell leading edge | 234 | 11 | TC02000270.hg.1; |
| GO:0030673//axolemma | 9 | 1 | TC17001353.hg.1 |
| GO:0030934//anchoring collagen | 9 | 1 | TC08000700.hg.1 |
| GO:0031095//platelet dense tubular network membrane | 9 | 1 | TC03000013.hg.1 |
| GO:0036019//endolysosome | 9 | 1 | TC01003211.hg.1 |
| GO:0042588//zymogen granule | 9 | 1 | TC10000415.hg.1 |
| GO:0019898//extrinsic to membrane | 119 | 6 | TC01000394.hg.1; |
| GO:0005769//early endosome | 190 | 9 | TC01002954.hg.1; |
| GO:0033267//axon part | 97 | 5 | TC02002808.hg.1; |
| GO:0005890//sodium:potassium-exchanging ATPase complex | 10 | 1 | TC01001473.hg.1 |
| GO:0043020//NADPH oxidase complex | 10 | 1 | TC11002178.hg.1 |
| GO:0043034//costamere | 10 | 1 | TC0X000943.hg.1 |
| GO:NM_0024 | 10 | 1 | TC22000620.hg.1 |
| GO:NR_0268 | 10 | 1 | TC21000425.hg.1 |
| GO:0044463//cell projection part | 534 | 23 | TC02002480.hg.1; |
| GO:0031965//nuclear membrane | 194 | 9 | TC01002954.hg.1; |
| GO:0005775//vacuolar lumen | 76 | 4 | TC01003211.hg.1; |
| GO:0005925//focal adhesion | 124 | 6 | TC02001031.hg.1; |
| GO:0005665//DNA-directed RNA polymerase II, core complex | 11 | 1 | TC04001084.hg.1 |
| GO:0031094//platelet dense tubular network | 11 | 1 | TC03000013.hg.1 |
| GO:0031307//integral to mitochondrial outer membrane | 11 | 1 | TC04002948.hg.1 |
| GO:0033276//transcription factor TFC complex | 11 | 1 | TC0X001176.hg.1 |
| GO:NM_0140 | 11 | 1 | TC02000286.hg.1 |
| GO:0005793//endoplasmic reticulum-Golgi intermediate compa | 55 | 3 | TC02002637.hg.1; |
| GO:0005798//Golgi-associated vesicle | 55 | 3 | TC01002954.hg.1; |
| GO:0017053//transcriptional repressor complex | 55 | 3 | TC01003042.hg.1; |

| | | | |
|--|-------|-----|------------------|
| GO:0042611//MHC protein complex | 126 | 6 | TC06000408.hg.1; |
| GO:0030660//Golgi-associated vesicle membrane | 33 | 2 | TC06000945.hg.1; |
| GO:0031594//neuromuscular junction | 33 | 2 | TC02002808.hg.1; |
| GO:0030666//endocytic vesicle membrane | 127 | 6 | TC01000734.hg.1; |
| GO:0031306//intrinsic to mitochondrial outer membrane | 12 | 1 | TC04002948.hg.1 |
| GO:0048786//presynaptic active zone | 12 | 1 | TC09000388.hg.1 |
| GO:0005938//cell cortex | 177 | 8 | TC01000394.hg.1; |
| GO:0030133//transport vesicle | 177 | 8 | TC01002954.hg.1; |
| GO:0001725//stress fiber | 34 | 2 | TC01002530.hg.1; |
| GO:0097060//synaptic membrane | 179 | 8 | TC02002808.hg.1; |
| GO:0044304//main axon | 35 | 2 | TC17000533.hg.1; |
| GO:0031253//cell projection membrane | 181 | 8 | TC02002480.hg.1; |
| GO:0002102//podosome | 13 | 1 | TC01000904.hg.1 |
| GO:0005790//smooth endoplasmic reticulum | 13 | 1 | TC17001353.hg.1 |
| GO:0005942//phosphatidylinositol 3-kinase complex | 13 | 1 | TC01002616.hg.1 |
| GO:0031258//lamellipodium membrane | 13 | 1 | TC02002480.hg.1 |
| GO:0032432//actin filament bundle | 37 | 2 | TC01002530.hg.1; |
| GO:NM_0005 | 14 | 1 | TC07000449.hg.1 |
| GO:0005671//Ada2/Gcn5/Ada3 transcription activator complex | 15 | 1 | TC03000986.hg.1 |
| GO:0031362//anchored to external side of plasma membrane | 15 | 1 | TC05001657.hg.1 |
| GO:0005876//spindle microtubule | 39 | 2 | TC0X001279.hg.1 |
| GO:0005829//cytosol | 1983 | 78 | TC01000685.hg.1; |
| GO:0009295//nucleoid | 40 | 2 | TC06004141.hg.1; |
| GO:0005796//Golgi lumen | 65 | 3 | TC03001590.hg.1; |
| GO:0034703//cation channel complex | 116 | 5 | TC06000728.hg.1; |
| GO:0000159//protein phosphatase type 2A complex | 16 | 1 | TC04001001.hg.1 |
| GO:0005669//transcription factor TFIID complex | 16 | 1 | TC0X001176.hg.1 |
| GO:0005859//muscle myosin complex | 16 | 1 | TC03001362.hg.1 |
| GO:0045120//pronucleus | 16 | 1 | TC01002578.hg.1 |
| GO:0072686//mitotic spindle | 16 | 1 | TC03000986.hg.1 |
| GO:0008287//protein serine/threonine phosphatase complex | 41 | 2 | TC03000013.hg.1; |
| GO:0005773//vacuole | 427 | 17 | TC01002441.hg.1; |
| GO:0042641//actomyosin | 42 | 2 | TC01002530.hg.1; |
| GO:0043679//axon terminus | 42 | 2 | TC02002808.hg.1; |
| GO:0005892//acetylcholine-gated channel complex | 17 | 1 | TC15001136.hg.1 |
| GO:0022627//cytosolic small ribosomal subunit | 17 | 1 | TC0Y000351.hg.1 |
| GO:0044456//synapse part | 301 | 12 | TC02002808.hg.1; |
| GO:0055037//recycling endosome | 69 | 3 | TC02001437.hg.1; |
| GO:0034702//ion channel complex | 173 | 7 | TC06000728.hg.1; |
| GO:0031941//filamentous actin | 18 | 1 | TC0X000034.hg.1 |
| GO:0000932//cytoplasmic mRNA processing body | 44 | 2 | TC03000248.hg.1; |
| GO:0005811//lipid particle | 44 | 2 | TC12000399.hg.1; |
| GO:0044464//cell part | 13780 | 533 | TC01000100.hg.1; |
| GO:0005623//cell | 13781 | 533 | TC01000100.hg.1; |
| GO:0044440//endosomal part | 332 | 13 | TC01002954.hg.1; |
| GO:0031233//intrinsic to external side of plasma membrane | 19 | 1 | TC05001657.hg.1 |
| GO:0031463//Cul3-RING ubiquitin ligase complex | 20 | 1 | TC05001481.hg.1 |
| GO:0030662//coated vesicle membrane | 180 | 7 | TC01000734.hg.1; |
| GO:0022626//cytosolic ribosome | 48 | 2 | TC03002146.hg.1; |
| GO:0030315//T-tubule | 21 | 1 | TC02000432.hg.1 |
| GO:0031672//A band | 21 | 1 | TC03001362.hg.1 |
| GO:0032420//stereocilium | 21 | 1 | TC03001255.hg.1 |
| GO:0042470//melanosome | 76 | 3 | TC01002578.hg.1; |
| GO:0048770//pigment granule | 76 | 3 | TC01002578.hg.1; |
| GO:0001917//photoreceptor inner segment | 22 | 1 | TC12000099.hg.1 |
| GO:0016460//myosin II complex | 22 | 1 | TC03001362.hg.1 |
| GO:0030659//cytoplasmic vesicle membrane | 347 | 13 | TC01000734.hg.1; |
| GO:0015935//small ribosomal subunit | 51 | 2 | TC0Y000351.hg.1 |

| | | | |
|---|------|----|------------------|
| GO:0010008//endosome membrane | 322 | 12 | TC01002954.hg.1; |
| GO:0030139//endocytic vesicle | 189 | 7 | TC01000734.hg.1; |
| GO:0030135//coated vesicle | 270 | 10 | TC01000734.hg.1; |
| GO:0000790//nuclear chromatin | 135 | 5 | TC02002624.hg.1; |
| GO:0005884//actin filament | 52 | 2 | TC0X000034.hg.1 |
| GO:0070461//SAGA-type complex | 25 | 1 | TC0X001176.hg.1 |
| GO:0012506//vesicle membrane | 357 | 13 | TC01000734.hg.1; |
| GO:0005844//polysome | 26 | 1 | TC0Y000351.hg.1 |
| GO:0005891//voltage-gated calcium channel complex | 26 | 1 | TC19001220.hg.1 |
| GO:0032592//integral to mitochondrial membrane | 26 | 1 | TC04002948.hg.1 |
| GO:0043195//terminal bouton | 26 | 1 | TC09000388.hg.1 |
| GO:0000795//synaptonemal complex | 27 | 1 | TC17001462.hg.1 |
| GO:0043209//myelin sheath | 27 | 1 | TC01003017.hg.1 |
| GO:0031301//integral to organelle membrane | 255 | 9 | TC01000783.hg.1; |
| GO:0005740//mitochondrial envelope | 475 | 17 | TC01001090.hg.1; |
| GO:0031966//mitochondrial membrane | 449 | 16 | TC01001607.hg.1; |
| GO:0034364//high-density lipoprotein particle | 28 | 1 | TC11000238.hg.1 |
| GO:0005814//centriole | 59 | 2 | TC05001385.hg.1; |
| GO:0005802//trans-Golgi network | 147 | 5 | TC04000173.hg.1; |
| GO:0032588//trans-Golgi network membrane | 60 | 2 | TC06000408.hg.1; |
| GO:0044437//vacuolar part | 288 | 10 | TC01002441.hg.1; |
| GO:0032421//stereocilium bundle | 29 | 1 | TC03001255.hg.1 |
| GO:0044445//cytosolic part | 148 | 5 | TC01002616.hg.1; |
| GO:0016459//myosin complex | 61 | 2 | TC03001362.hg.1; |
| GO:0005771//multivesicular body | 30 | 1 | TC06000945.hg.1 |
| GO:0031256//leading edge membrane | 93 | 3 | TC02002480.hg.1; |
| GO:0031901//early endosome membrane | 93 | 3 | TC02002808.hg.1; |
| GO:0005765//lysosomal membrane | 182 | 6 | TC01002441.hg.1; |
| GO:NM_0010 | 324 | 11 | TC01001704.hg.1; |
| GO:0016604//nuclear body | 212 | 7 | TC03000917.hg.1; |
| GO:0043197//dendritic spine | 32 | 1 | TC05000914.hg.1 |
| GO:0044309//neuron spine | 32 | 1 | TC05000914.hg.1 |
| GO:0044451//nucleoplasm part | 690 | 24 | TC01003042.hg.1; |
| GO:0031300//intrinsic to organelle membrane | 275 | 9 | TC01000783.hg.1; |
| GO:0000123//histone acetyltransferase complex | 69 | 2 | TC03000986.hg.1; |
| GO:0032153//cell division site | 36 | 1 | TC07000235.hg.1 |
| GO:0032155//cell division site part | 36 | 1 | TC07000235.hg.1 |
| GO:0005768//endosome | 564 | 19 | TC01002954.hg.1; |
| GO:0042645//mitochondrial nucleoid | 37 | 1 | TC06004141.hg.1 |
| GO:0035770//ribonucleoprotein granule | 72 | 2 | TC03000248.hg.1; |
| GO:0034704//calcium channel complex | 38 | 1 | TC19001220.hg.1 |
| GO:0000118//histone deacetylase complex | 40 | 1 | TC04000856.hg.1 |
| GO:0005758//mitochondrial intermembrane space | 40 | 1 | TC01001090.hg.1 |
| GO:0034707//chloride channel complex | 40 | 1 | TC21000138.hg.1 |
| GO:0000151//ubiquitin ligase complex | 142 | 4 | TC05001481.hg.1; |
| GO:0031967//organelle envelope | 779 | 26 | TC01001090.hg.1; |
| GO:0005881//cytoplasmic microtubule | 42 | 1 | TC05000601.hg.1 |
| GO:0031234//extrinsic to internal side of plasma membrane | 42 | 1 | TC01002166.hg.1 |
| GO:0045335//phagocytic vesicle | 80 | 2 | TC02001100.hg.1; |
| GO:0042734//presynaptic membrane | 44 | 1 | TC13000741.hg.1 |
| GO:0030496//midbody | 81 | 2 | TC01002578.hg.1; |
| GO:0016591//DNA-directed RNA polymerase II, holoenzyme | 82 | 2 | TC04001084.hg.1; |
| GO:0031975//envelope | 792 | 26 | TC01001090.hg.1; |
| GO:0005856//cytoskeleton | 1539 | 53 | TC01000394.hg.1; |
| GO:0001750//photoreceptor outer segment | 48 | 1 | TC09000614.hg.1 |
| GO:0016607//nuclear speck | 86 | 2 | TC10000565.hg.1; |
| GO:0005635//nuclear envelope | 310 | 9 | TC01002954.hg.1; |
| GO:0000922//spindle pole | 87 | 2 | TC13000109.hg.1; |

| | | | |
|---|-------|-----|------------------|
| GO:0009898//internal side of plasma membrane | 87 | 2 | TC01001624.hg.1; |
| GO:0016529//sarcoplasmic reticulum | 49 | 1 | TC03000013.hg.1 |
| GO:0045095//keratin filament | 49 | 1 | TC17001485.hg.1 |
| GO:0005882//intermediate filament | 123 | 3 | TC06000945.hg.1; |
| GO:NM_0011 | 405 | 12 | TC04001459.hg.1; |
| GO:0044424//intracellular part | 11420 | 428 | TC01000100.hg.1; |
| GO:0005774//vacuolar membrane | 225 | 6 | TC01002441.hg.1; |
| GO:0000792//heterochromatin | 52 | 1 | TC20000945.hg.1 |
| GO:0019866//organelle inner membrane | 352 | 10 | TC01001607.hg.1; |
| GO:0000428//DNA-directed RNA polymerase complex | 93 | 2 | TC04001084.hg.1; |
| GO:0055029//nuclear DNA-directed RNA polymerase complex | 93 | 2 | TC04001084.hg.1; |
| GO:0016528//sarcoplasm | 54 | 1 | TC03000013.hg.1 |
| GO:0031970//organelle envelope lumen | 54 | 1 | TC01001090.hg.1 |
| GO:0030880//RNA polymerase complex | 95 | 2 | TC04001084.hg.1; |
| GO:0005819//spindle | 200 | 5 | TC03000986.hg.1; |
| GO:0030670//phagocytic vesicle membrane | 57 | 1 | TC18000047.hg.1 |
| GO:0044450//microtubule organizing center part | 98 | 2 | TC05001385.hg.1; |
| GO:0044454//nuclear chromosome part | 237 | 6 | TC02002624.hg.1; |
| GO:0001669//acrosomal vesicle | 59 | 1 | TC05003439.hg.1 |
| GO:0044391//ribosomal subunit | 101 | 2 | TC0Y000351.hg.1 |
| GO:0044429//mitochondrial part | 698 | 21 | TC01000728.hg.1; |
| GO:0016363//nuclear matrix | 63 | 1 | TC05001481.hg.1 |
| GO:0005770//late endosome | 143 | 3 | TC06000945.hg.1; |
| GO:0000794//condensed nuclear chromosome | 64 | 1 | TC17001462.hg.1 |
| GO:0005739//mitochondrion | 1457 | 47 | TC01000728.hg.1; |
| GO:0097223//sperm part | 66 | 1 | TC05003439.hg.1 |
| GO:0005654//nucleoplasm | 1186 | 37 | TC01000685.hg.1; |
| GO:0000785//chromatin | 290 | 7 | TC01003172.hg.1; |
| GO:0042613//MHC class II protein complex | 71 | 1 | TC06000408.hg.1 |
| GO:0005777//peroxisome | 118 | 2 | TC03001466.hg.1; |
| GO:0042579//microbody | 118 | 2 | TC03001466.hg.1; |
| GO:0045111//intermediate filament cytoskeleton | 158 | 3 | TC06000945.hg.1; |
| GO:0000228//nuclear chromosome | 267 | 6 | TC02002624.hg.1; |
| GO:0030658//transport vesicle membrane | 120 | 2 | TC06000408.hg.1; |
| GO:ENST000 | 160 | 3 | TC08000255.hg.1; |
| GO:0043227//membrane-bounded organelle | 8945 | 325 | TC01000100.hg.1; |
| GO:0005622//intracellular | 11692 | 432 | TC01000100.hg.1; |
| GO:0034399//nuclear periphery | 77 | 1 | TC05001481.hg.1 |
| GO:0001726//ruffle | 122 | 2 | TC05002110.hg.1; |
| GO:0031902//late endosome membrane | 79 | 1 | TC17001830.hg.1 |
| GO:0044430//cytoskeletal part | 1112 | 33 | TC01000394.hg.1; |
| GO:0032993//protein-DNA complex | 129 | 2 | TC01003172.hg.1; |
| GO:0005813//centrosome | 356 | 8 | TC01000785.hg.1; |
| GO:0008021//synaptic vesicle | 87 | 1 | TC03000846.hg.1 |
| GO:0031513//nonmotile primary cilium | 88 | 1 | TC09000614.hg.1 |
| GO:0000786//nucleosome | 89 | 1 | TC01003172.hg.1 |
| GO:0012507//ER to Golgi transport vesicle membrane | 89 | 1 | TC06000408.hg.1 |
| GO:0071556//integral to lumenal side of endoplasmic reticulum | 89 | 1 | TC06000408.hg.1 |
| GO:0005759//mitochondrial matrix | 291 | 6 | TC01000728.hg.1; |
| GO:0031461//cullin-RING ubiquitin ligase complex | 90 | 1 | TC05001481.hg.1 |
| GO:0043231//intracellular membrane-bounded organelle | 8909 | 320 | TC01000100.hg.1; |
| GO:0043233//organelle lumen | 2913 | 95 | TC01000685.hg.1; |
| GO:0030134//ER to Golgi transport vesicle | 92 | 1 | TC06000408.hg.1 |
| GO:0043226//organelle | 9838 | 355 | TC01000100.hg.1; |
| GO:0031974//membrane-enclosed lumen | 2959 | 96 | TC01000685.hg.1; |
| GO:0044422//organelle part | 6109 | 212 | TC01000394.hg.1; |
| GO:0072372//primary cilium | 104 | 1 | TC09000614.hg.1 |
| GO:0005743//mitochondrial inner membrane | 317 | 6 | TC01001607.hg.1; |

| | | | |
|--|------|-----|------------------|
| GO:0030176//integral to endoplasmic reticulum membrane | 163 | 2 | TC06000408.hg.1; |
| GO:0005840//ribosome | 208 | 3 | TC03002146.hg.1; |
| GO:0005815//microtubule organizing center | 440 | 9 | TC01000785.hg.1; |
| GO:0005681//spliceosomal complex | 117 | 1 | TC01003629.hg.1; |
| GO:0044455//mitochondrial membrane part | 121 | 1 | TC04002948.hg.1; |
| GO:0070013//intracellular organelle lumen | 2868 | 89 | TC01000685.hg.1; |
| GO:0044446//intracellular organelle part | 6023 | 204 | TC01000394.hg.1; |
| GO:0043229//intracellular organelle | 9803 | 348 | TC01000100.hg.1; |
| GO:0005874//microtubule | 308 | 5 | TC05000601.hg.1; |
| GO:0031227//intrinsic to endoplasmic reticulum membrane | 179 | 2 | TC06000408.hg.1; |
| GO:0005730//nucleolus | 1315 | 35 | TC01001112.hg.1; |
| GO:0000793//condensed chromosome | 139 | 1 | TC17001462.hg.1; |
| GO:0005929//cilium | 254 | 3 | TC07001256.hg.1; |
| GO:0031981//nuclear lumen | 2338 | 67 | TC01000685.hg.1; |
| GO:0015630//microtubule cytoskeleton | 803 | 17 | TC01000785.hg.1; |
| GO:0043234//protein complex | 3150 | 93 | TC01000394.hg.1; |
| GO:0005634//nucleus | 5342 | 171 | TC01000100.hg.1; |
| GO:0044427//chromosomal part | 517 | 8 | TC01003172.hg.1; |
| GO:0044428//nuclear part | 2702 | 75 | TC01000685.hg.1; |
| GO:0043228//non-membrane-bounded organelle | 3387 | 96 | TC01000394.hg.1; |
| GO:0043232//intracellular non-membrane-bounded organelle | 3387 | 96 | TC01000394.hg.1; |
| GO:0005694//chromosome | 611 | 9 | TC01003172.hg.1; |
| GO:0030529//ribonucleoprotein complex | 531 | 7 | TC01003629.hg.1; |
| GO:0032991//macromolecular complex | 3724 | 104 | TC01000394.hg.1; |

| Gene_Symbol | P_value | Q_value | Significant |
|------------------|-----------|-----------|-------------|
| - | - | - | - |
| ENSG00000171819; | 0 | 0 | TRUE |
| ENSG00000143369; | 0 | 0 | TRUE |
| ENSG00000143369; | 0 | 0 | TRUE |
| ENSG00000162692; | 0 | 0 | TRUE |
| ENSG00000162692; | 2.22E-16 | 1.901E-14 | TRUE |
| ENSG00000117122; | 2.096E-08 | 1.495E-06 | TRUE |
| ENSG00000159023; | 3.818E-07 | 2.334E-05 | TRUE |
| ENSG00000159023; | 4.94E-07 | 2.643E-05 | TRUE |
| ENSG00000159023; | 9.046E-07 | 4.302E-05 | TRUE |
| ENSG00000159023; | 4.396E-06 | 0.0001882 | TRUE |
| ENSG00000185483; | 8.602E-06 | 0.0003347 | TRUE |
| ENSG00000168906; | 1.828E-05 | 0.0006518 | TRUE |
| ENSG00000185483; | 2.585E-05 | 0.0008512 | TRUE |
| ENSG00000132849; | 4.434E-05 | 0.0013317 | TRUE |
| ENSG00000162692; | 4.667E-05 | 0.0013317 | TRUE |
| ENSG00000092969; | 0.0001022 | 0.0026242 | TRUE |
| ENSG00000185483; | 0.0001042 | 0.0026242 | TRUE |
| ENSG00000117122; | 0.0001371 | 0.0030949 | TRUE |
| ENSG00000090530; | 0.0001374 | 0.0030949 | TRUE |
| ENSG00000185483; | 0.0001447 | 0.0030966 | TRUE |
| ENSG00000116711; | 0.0002045 | 0.0041069 | TRUE |
| ENSG00000092969; | 0.0002111 | 0.0041069 | TRUE |
| ENSG00000092969; | 0.0002882 | 0.0052062 | TRUE |
| ENSG00000092969; | 0.0002919 | 0.0052062 | TRUE |
| ENSG00000143153; | 0.0005411 | 0.0092636 | TRUE |
| ENSG00000049246; | 0.0006227 | 0.0102498 | TRUE |
| ENSG00000049246; | 0.0008828 | 0.0139947 | TRUE |
| ENSG00000117122; | 0.0010551 | 0.0161281 | TRUE |
| ENSG00000143127; | 0.0014815 | 0.0218651 | TRUE |
| ENSG00000084674; | 0.0025696 | 0.0366599 | TRUE |
| ENSG00000076356; | 0.0027872 | 0.0384819 | TRUE |
| ENSG00000060718; | 0.0032679 | 0.0414688 | TRUE |
| ENSG00000135919; | 0.003306 | 0.0414688 | TRUE |
| ENSG00000132849; | 0.0033375 | 0.0414688 | TRUE |
| ENSG00000143127; | 0.0033911 | 0.0414688 | TRUE |
| ENSG00000116005; | 0.0035927 | 0.0427133 | TRUE |
| ENSG00000132849; | 0.003854 | 0.0445814 | TRUE |
| NR_001434;NR_001 | 0.0040613 | 0.0448978 | TRUE |
| ENSG00000116005; | 0.0040912 | 0.0448978 | TRUE |
| ENSG00000162692; | 0.0043435 | 0.0464749 | TRUE |
| ENSG00000184500; | 0.004578 | 0.0477902 | TRUE |
| ENSG00000092969; | 0.0067636 | 0.068924 | FALSE |
| ENSG00000118473; | 0.0073789 | 0.0734455 | FALSE |
| ENSG00000116711; | 0.0086771 | 0.0844045 | FALSE |
| ENSG00000184500; | 0.0089478 | 0.0851035 | FALSE |
| ENSG00000118473; | 0.0097534 | 0.0907493 | FALSE |
| ENSG00000162692; | 0.0111207 | 0.1012695 | FALSE |
| ENSG00000118473; | 0.0113897 | 0.1015583 | FALSE |
| ENSG00000148053; | 0.0123198 | 0.1076096 | FALSE |
| ENSG00000116005; | 0.0127175 | 0.1077836 | FALSE |
| ENSG00000116005; | 0.0127175 | 0.1077836 | FALSE |
| ENSG00000150995; | 0.0138153 | 0.1137102 | FALSE |
| ENSG00000132849; | 0.0159801 | 0.1266208 | FALSE |
| ENSG00000159399; | 0.0162798 | 0.1266208 | FALSE |
| ENSG00000168036; | 0.0165465 | 0.1266208 | FALSE |
| ENSG00000184500; | 0.0165465 | 0.1266208 | FALSE |

| | | | |
|------------------|-----------|-----------|-------|
| ENSG0000060718; | 0.017011 | 0.1266208 | FALSE |
| ENSG00000116106; | 0.017011 | 0.1266208 | FALSE |
| ENSG00000118473; | 0.0185069 | 0.1313246 | FALSE |
| ENSG00000134243; | 0.0188017 | 0.1313246 | FALSE |
| ENSG00000159023; | 0.0190795 | 0.1313246 | FALSE |
| ENSG00000143140; | 0.0191771 | 0.1313246 | FALSE |
| ENSG00000159023; | 0.0191771 | 0.1313246 | FALSE |
| ENSG00000118473; | 0.0201953 | 0.1319739 | FALSE |
| ENSG00000117069; | 0.0202268 | 0.1319739 | FALSE |
| ENSG00000132849; | 0.0203511 | 0.1319739 | FALSE |
| ENSG00000117069; | 0.0208164 | 0.1329761 | FALSE |
| ENSG00000118473; | 0.0215158 | 0.1353439 | FALSE |
| ENSG00000159399; | 0.0221048 | 0.1353439 | FALSE |
| ENSG0000060718; | 0.0221357 | 0.1353439 | FALSE |
| ENSG00000116106; | 0.0225386 | 0.1358663 | FALSE |
| ENSG00000117069; | 0.0244047 | 0.1450725 | FALSE |
| ENSG00000116711; | 0.0251192 | 0.1472743 | FALSE |
| ENSG00000135919; | 0.0270042 | 0.15417 | FALSE |
| ENSG00000143140; | 0.0273523 | 0.15417 | FALSE |
| ENSG00000196569; | 0.0275561 | 0.15417 | FALSE |
| ENSG00000118473; | 0.0275561 | 0.15417 | FALSE |
| ENSG00000143641; | 0.032223 | 0.175137 | FALSE |
| ENSG00000116711; | 0.0323267 | 0.175137 | FALSE |
| ENSG00000118473; | 0.0346507 | 0.1853813 | FALSE |
| ENSG00000196569; | 0.0351674 | 0.1858229 | FALSE |
| ENSG00000116106; | 0.0373204 | 0.1947944 | FALSE |
| ENSG00000143153; | 0.0380859 | 0.1957754 | FALSE |
| ENSG00000183386; | 0.0384232 | 0.1957754 | FALSE |
| ENSG00000159399; | 0.0394726 | 0.1987561 | FALSE |
| ENSG00000116106; | 0.0401047 | 0.1995907 | FALSE |
| ENSG00000152256; | 0.0414589 | 0.2039588 | FALSE |
| ENSG00000183386; | 0.0431947 | 0.2092526 | FALSE |
| ENSG00000159023; | 0.043702 | 0.2092526 | FALSE |
| ENSG00000168036; | 0.0448841 | 0.2092526 | FALSE |
| ENSG00000116106; | 0.0448841 | 0.2092526 | FALSE |
| ENSG00000143473; | 0.0449795 | 0.2092526 | FALSE |
| ENSG00000135318; | 0.0502947 | 0.2314636 | FALSE |
| ENSG00000135318; | 0.0532949 | 0.241378 | FALSE |
| ENSG00000135318; | 0.0532949 | 0.241378 | FALSE |
| ENSG00000196569; | 0.0546961 | 0.2438533 | FALSE |
| ENSG00000183386; | 0.0555258 | 0.2450006 | FALSE |
| ENSG00000118473; | 0.0579867 | 0.253248 | FALSE |
| ENSG00000183386; | 0.059615 | 0.2564343 | FALSE |
| ENSG00000143641; | 0.059615 | 0.2564343 | FALSE |
| ENSG00000111981; | 0.0607797 | 0.2575616 | FALSE |
| ENSG00000159023; | 0.0624124 | 0.2618872 | FALSE |
| ENSG00000117069; | 0.0631092 | 0.2622403 | FALSE |
| ENSG00000168036; | 0.0651776 | 0.2669476 | FALSE |
| ENSG00000084674; | 0.0651776 | 0.2669476 | FALSE |
| ENSG00000143641; | 0.0663625 | 0.2679541 | FALSE |
| ENSG00000196352; | 0.0678526 | 0.2714104 | FALSE |
| ENSG00000132849; | 0.068921 | 0.2731313 | FALSE |
| ENSG00000143387; | 0.0762625 | 0.2961081 | FALSE |
| ENSG00000118473; | 0.0767003 | 0.2961081 | FALSE |
| ENSG00000136603; | 0.0772842 | 0.2961081 | FALSE |
| ENSG00000118473; | 0.0774862 | 0.2961081 | FALSE |
| ENSG00000132849; | 0.081795 | 0.3098076 | FALSE |
| ENSG00000162692; | 0.0836096 | 0.3139027 | FALSE |

| | | | |
|-----------------|-----------|-----------|-------|
| ENSG00000184292 | 0.0847749 | 0.31551 | FALSE |
| ENSG00000118473 | 0.0864764 | 0.3190682 | FALSE |
| ENSG00000168036 | 0.0878884 | 0.3215063 | FALSE |
| ENSG00000143140 | 0.0923431 | 0.333526 | FALSE |
| ENSG00000184292 | 0.0923431 | 0.333526 | FALSE |
| ENSG00000132849 | 0.0975958 | 0.3464113 | FALSE |
| ENSG00000132849 | 0.0975958 | 0.3464113 | FALSE |
| ENSG00000152256 | 0.0987434 | 0.3464113 | FALSE |
| ENSG00000118473 | 0.1011484 | 0.3519637 | FALSE |
| ENSG00000159023 | 0.1074485 | 0.3696817 | FALSE |
| ENSG00000183386 | 0.1079678 | 0.3696817 | FALSE |
| ENSG00000112378 | 0.1125341 | 0.3822587 | FALSE |
| ENSG00000152527 | 0.1165151 | 0.3926651 | FALSE |
| ENSG00000118473 | 0.125173 | 0.4162156 | FALSE |
| ENSG00000143140 | 0.1254482 | 0.4162156 | FALSE |
| ENSG00000118473 | 0.1277051 | 0.4204446 | FALSE |
| ENSG00000118473 | 0.1339583 | 0.4343497 | FALSE |
| ENSG00000160801 | 0.1339583 | 0.4343497 | FALSE |
| ENSG00000174136 | 0.1339583 | 0.4343497 | FALSE |
| ENSG00000152256 | 0.1396567 | 0.4460677 | FALSE |
| ENSG00000118473 | 0.1411494 | 0.4474959 | FALSE |
| ENSG00000160801 | 0.1481409 | 0.4662081 | FALSE |
| ENSG00000112562 | 0.1522195 | 0.4738177 | FALSE |
| ENSG00000134243 | 0.1522195 | 0.4738177 | FALSE |
| ENSG00000162692 | 0.1580296 | 0.4865949 | FALSE |
| ENSG00000170624 | 0.1659903 | 0.4913501 | FALSE |
| ENSG00000084674 | 0.1659903 | 0.4913501 | FALSE |
| ENSG00000116679 | 0.1690855 | 0.4913501 | FALSE |
| ENSG00000116106 | 0.1707184 | 0.4913501 | FALSE |
| ENSG00000145242 | 0.1710336 | 0.4913501 | FALSE |
| ENSG00000162692 | 0.1780756 | 0.4913501 | FALSE |
| ENSG00000111674 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000187955 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000011426 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000143387 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000143815 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000078098 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000198467 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000131669 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000067798 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000188177 | 0.1789872 | 0.4913501 | FALSE |
| ENSG00000118473 | 0.1790902 | 0.4913501 | FALSE |
| ENSG00000143641 | 0.190552 | 0.5194665 | FALSE |
| ENSG00000184292 | 0.1941075 | 0.5241514 | FALSE |
| ENSG00000149571 | 0.1941075 | 0.5241514 | FALSE |
| ENSG00000143153 | 0.2017417 | 0.5273861 | FALSE |
| ENSG00000185760 | 0.2017417 | 0.5273861 | FALSE |
| ENSG00000185760 | 0.2017417 | 0.5273861 | FALSE |
| ENSG00000116106 | 0.2090053 | 0.5273861 | FALSE |
| ENSG00000183386 | 0.2098305 | 0.5273861 | FALSE |
| ENSG00000159023 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000170624 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000168036 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000180818 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000010278 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000158445 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000108797 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000158445 | 0.2107456 | 0.5273861 | FALSE |

| | | | |
|-----------------|-----------|-----------|-------|
| ENSG00000137501 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000168405 | 0.2107456 | 0.5273861 | FALSE |
| ENSG00000118473 | 0.2156369 | 0.5273861 | FALSE |
| ENSG00000152256 | 0.2269221 | 0.548914 | FALSE |
| ENSG00000159023 | 0.2393096 | 0.548914 | FALSE |
| ENSG00000117394 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000159023 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000170624 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000104067 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000144791 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000070371 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000135919 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000144791 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000158445 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000187391 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000187391 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000104067 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000132471 | 0.2412772 | 0.548914 | FALSE |
| ENSG00000162511 | 0.2456006 | 0.548914 | FALSE |
| ENSG00000162511 | 0.2456006 | 0.548914 | FALSE |
| ENSG00000176658 | 0.2517121 | 0.5526738 | FALSE |
| ENSG00000104419 | 0.2517121 | 0.5526738 | FALSE |
| ENSG00000116106 | 0.2518023 | 0.5526738 | FALSE |
| ENSG00000150995 | 0.2624249 | 0.5730503 | FALSE |
| ENSG00000070371 | 0.2706293 | 0.5849966 | FALSE |
| ENSG00000011426 | 0.2706293 | 0.5849966 | FALSE |
| ENSG00000148671 | 0.2706293 | 0.5849966 | FALSE |
| ENSG00000118473 | 0.2906239 | 0.614936 | FALSE |
| ENSG00000116285 | 0.2947157 | 0.614936 | FALSE |
| ENSG00000118473 | 0.2947157 | 0.614936 | FALSE |
| ENSG00000143387 | 0.2947157 | 0.614936 | FALSE |
| ENSG00000118473 | 0.2947157 | 0.614936 | FALSE |
| ENSG00000152527 | 0.296793 | 0.614936 | FALSE |
| ENSG00000176658 | 0.2988474 | 0.614936 | FALSE |
| ENSG00000187955 | 0.2988474 | 0.614936 | FALSE |
| ENSG00000150995 | 0.2988474 | 0.614936 | FALSE |
| ENSG00000143387 | 0.2988474 | 0.614936 | FALSE |
| ENSG00000122862 | 0.2988474 | 0.614936 | FALSE |
| ENSG00000159023 | 0.31292 | 0.6347382 | FALSE |
| ENSG00000134243 | 0.3149278 | 0.6357976 | FALSE |
| ENSG00000116106 | 0.3215284 | 0.6389967 | FALSE |
| ENSG00000143153 | 0.3259753 | 0.6389967 | FALSE |
| ENSG00000086991 | 0.3259753 | 0.6389967 | FALSE |
| ENSG00000198947 | 0.3259753 | 0.6389967 | FALSE |
| ENSG00000169184 | 0.3259753 | 0.6389967 | FALSE |
| NR_026812 | 0.3259753 | 0.6389967 | FALSE |
| ENSG00000078098 | 0.3269633 | 0.6389967 | FALSE |
| ENSG00000134243 | 0.3365536 | 0.6547497 | FALSE |
| ENSG00000143387 | 0.3387589 | 0.6560579 | FALSE |
| ENSG00000152256 | 0.3472764 | 0.669092 | FALSE |
| ENSG00000109819 | 0.3520551 | 0.669092 | FALSE |
| ENSG00000150995 | 0.3520551 | 0.669092 | FALSE |
| ENSG00000137463 | 0.3520551 | 0.669092 | FALSE |
| ENSG00000187325 | 0.3520551 | 0.669092 | FALSE |
| ENSG00000171150 | 0.3520551 | 0.669092 | FALSE |
| ENSG00000081320 | 0.358318 | 0.669092 | FALSE |
| ENSG00000134243 | 0.358318 | 0.669092 | FALSE |
| ENSG00000092607 | 0.358318 | 0.669092 | FALSE |

| | | | |
|-----------------|-----------|-----------|-------|
| ENSG00000223865 | 0.3611221 | 0.669092 | FALSE |
| ENSG00000152661 | 0.3667042 | 0.6731995 | FALSE |
| ENSG00000116106 | 0.3667042 | 0.6731995 | FALSE |
| ENSG00000118473 | 0.3680577 | 0.6731995 | FALSE |
| ENSG00000137463 | 0.3771272 | 0.6803889 | FALSE |
| ENSG00000148053 | 0.3771272 | 0.6803889 | FALSE |
| ENSG00000159023 | 0.3775522 | 0.6803889 | FALSE |
| ENSG00000134243 | 0.3775522 | 0.6803889 | FALSE |
| ENSG00000183386 | 0.3806888 | 0.6817357 | FALSE |
| ENSG00000116106 | 0.3893503 | 0.6943413 | FALSE |
| ENSG00000108797 | 0.3945406 | 0.700678 | FALSE |
| ENSG00000078098 | 0.4011604 | 0.7023583 | FALSE |
| ENSG00000162692 | 0.4012304 | 0.7023583 | FALSE |
| ENSG00000176658 | 0.4012304 | 0.7023583 | FALSE |
| ENSG00000117461 | 0.4012304 | 0.7023583 | FALSE |
| ENSG00000078098 | 0.4012304 | 0.7023583 | FALSE |
| ENSG00000183386 | 0.4218041 | 0.7308994 | FALSE |
| ENSG00000049540 | 0.4244022 | 0.732436 | FALSE |
| ENSG00000163872 | 0.4466785 | 0.7646386 | FALSE |
| ENSG00000184349 | 0.4466785 | 0.7646386 | FALSE |
| ENSG00000077274 | 0.4484213 | 0.7646386 | FALSE |
| ENSG00000162409 | 0.4541341 | 0.7713072 | FALSE |
| ENSG00000112096 | 0.4614686 | 0.7765278 | FALSE |
| ENSG00000184500 | 0.462488 | 0.7765278 | FALSE |
| ENSG00000185760 | 0.4673064 | 0.7765278 | FALSE |
| ENSG00000074211 | 0.4680938 | 0.7765278 | FALSE |
| ENSG00000187325 | 0.4680938 | 0.7765278 | FALSE |
| ENSG00000160808 | 0.4680938 | 0.7765278 | FALSE |
| ENSG00000117394 | 0.4680938 | 0.7765278 | FALSE |
| ENSG00000163872 | 0.4680938 | 0.7765278 | FALSE |
| ENSG00000150995 | 0.4743333 | 0.777834 | FALSE |
| ENSG00000162511 | 0.4863217 | 0.7877803 | FALSE |
| ENSG00000183386 | 0.4870101 | 0.7877803 | FALSE |
| ENSG00000116106 | 0.4870101 | 0.7877803 | FALSE |
| ENSG00000166664 | 0.4886815 | 0.7877803 | FALSE |
| ENSG00000129824 | 0.4886815 | 0.7877803 | FALSE |
| ENSG00000116106 | 0.4987648 | 0.7995181 | FALSE |
| ENSG00000144476 | 0.5021405 | 0.8019259 | FALSE |
| ENSG00000185760 | 0.5057767 | 0.8047302 | FALSE |
| ENSG00000146950 | 0.5084734 | 0.8060245 | FALSE |
| ENSG00000144791 | 0.5117813 | 0.8067859 | FALSE |
| ENSG00000185432 | 0.5117813 | 0.8067859 | FALSE |
| ENSG00000049246 | 0.5168746 | 0.8095496 | FALSE |
| ENSG00000049246 | 0.5182631 | 0.8095496 | FALSE |
| ENSG00000134243 | 0.5217575 | 0.8120444 | FALSE |
| ENSG00000184349 | 0.5275002 | 0.8180076 | FALSE |
| ENSG00000171617 | 0.5457915 | 0.8433169 | FALSE |
| ENSG00000118473 | 0.5479845 | 0.8436596 | FALSE |
| ENSG00000189058 | 0.558901 | 0.8570368 | FALSE |
| ENSG00000135636 | 0.5633757 | 0.8570368 | FALSE |
| ENSG00000160808 | 0.5633757 | 0.8570368 | FALSE |
| ENSG00000033867 | 0.5633757 | 0.8570368 | FALSE |
| ENSG00000117394 | 0.5676868 | 0.8570368 | FALSE |
| ENSG00000117394 | 0.5676868 | 0.8570368 | FALSE |
| ENSG00000111674 | 0.5802801 | 0.869912 | FALSE |
| ENSG00000160808 | 0.5802801 | 0.869912 | FALSE |
| ENSG00000118473 | 0.5865385 | 0.8746985 | FALSE |
| ENSG00000129824 | 0.5920565 | 0.8790702 | FALSE |

| | | | |
|------------------|-----------|-----------|-------|
| ENSG00000134243; | 0.5935777 | 0.8790702 | FALSE |
| ENSG00000118473; | 0.599857 | 0.8803759 | FALSE |
| ENSG00000118473; | 0.6005803 | 0.8803759 | FALSE |
| ENSG00000115415; | 0.6021167 | 0.8803759 | FALSE |
| ENSG00000146950; | 0.6026872 | 0.8803759 | FALSE |
| ENSG00000187325 | 0.6271718 | 0.9105164 | FALSE |
| ENSG00000118473; | 0.6275756 | 0.9105164 | FALSE |
| ENSG00000129824 | 0.6416094 | 0.9230549 | FALSE |
| ENSG00000141837 | 0.6416094 | 0.9230549 | FALSE |
| ENSG00000137463 | 0.6416094 | 0.9230549 | FALSE |
| ENSG00000148053 | 0.6416094 | 0.9230549 | FALSE |
| ENSG00000131747 | 0.6554887 | 0.9312685 | FALSE |
| ENSG00000134198 | 0.6554887 | 0.9312685 | FALSE |
| ENSG00000117069; | 0.65711 | 0.9312685 | FALSE |
| ENSG00000117289; | 0.6634908 | 0.9372081 | FALSE |
| ENSG00000116711; | 0.6673635 | 0.9385566 | FALSE |
| ENSG00000173432 | 0.6688313 | 0.9385566 | FALSE |
| ENSG00000145632; | 0.6712418 | 0.9388545 | FALSE |
| ENSG00000109610; | 0.6764479 | 0.9388545 | FALSE |
| ENSG00000223865; | 0.6802118 | 0.9388545 | FALSE |
| ENSG00000162511; | 0.6804801 | 0.9388545 | FALSE |
| ENSG00000033867 | 0.6816578 | 0.9388545 | FALSE |
| ENSG00000117461; | 0.682205 | 0.9388545 | FALSE |
| ENSG00000160808; | 0.6889809 | 0.9451404 | FALSE |
| ENSG00000152661 | 0.6939882 | 0.9489678 | FALSE |
| ENSG00000078098; | 0.7029179 | 0.9565942 | FALSE |
| ENSG00000116106; | 0.7029179 | 0.9565942 | FALSE |
| ENSG00000162511; | 0.7105121 | 0.9608052 | FALSE |
| ENSG00000163531; | 0.7126543 | 0.9608052 | FALSE |
| ENSG00000136603; | 0.7167686 | 0.9608052 | FALSE |
| ENSG00000145934 | 0.7172366 | 0.9608052 | FALSE |
| ENSG00000145934 | 0.7172366 | 0.9608052 | FALSE |
| ENSG00000092607; | 0.7335951 | 0.9781268 | FALSE |
| ENSG00000117069; | 0.7409858 | 0.9849128 | FALSE |
| ENSG00000163872; | 0.7521791 | 0.9966955 | FALSE |
| ENSG00000011426 | 0.7585753 | 0.9999686 | FALSE |
| ENSG00000011426 | 0.7585753 | 0.9999686 | FALSE |
| ENSG00000134243; | 0.7641625 | 0.9999686 | FALSE |
| ENSG00000112096 | 0.7679301 | 0.9999686 | FALSE |
| ENSG00000144791; | 0.7728647 | 0.9999686 | FALSE |
| ENSG00000141837 | 0.7769228 | 0.9999686 | FALSE |
| ENSG00000164105 | 0.7938779 | 0.9999686 | FALSE |
| ENSG00000117289 | 0.7938779 | 0.9999686 | FALSE |
| ENSG00000159212 | 0.7938779 | 0.9999686 | FALSE |
| ENSG00000171617; | 0.8039824 | 0.9999686 | FALSE |
| ENSG00000117289; | 0.808629 | 0.9999686 | FALSE |
| ENSG00000155324 | 0.8095459 | 0.9999686 | FALSE |
| ENSG00000116285 | 0.8095459 | 0.9999686 | FALSE |
| ENSG00000138448; | 0.8208036 | 0.9999686 | FALSE |
| ENSG00000178695 | 0.8240245 | 0.9999686 | FALSE |
| ENSG00000117394; | 0.8261121 | 0.9999686 | FALSE |
| ENSG00000109819; | 0.8312787 | 0.9999686 | FALSE |
| ENSG00000117289; | 0.8328319 | 0.9999686 | FALSE |
| ENSG00000159023; | 0.8336702 | 0.9999686 | FALSE |
| ENSG00000095303 | 0.8497674 | 0.9999686 | FALSE |
| ENSG00000108175; | 0.8505868 | 0.9999686 | FALSE |
| ENSG00000134243; | 0.8515674 | 0.9999686 | FALSE |
| ENSG00000073910; | 0.855089 | 0.9999686 | FALSE |

| | | | |
|------------------|-----------|-----------|-------|
| ENSG00000116741; | 0.855089 | 0.9999686 | FALSE |
| ENSG00000150995 | 0.8555925 | 0.9999686 | FALSE |
| ENSG00000212724 | 0.8555925 | 0.9999686 | FALSE |
| ENSG00000152661; | 0.8594255 | 0.9999686 | FALSE |
| ENSG00000138795; | 0.8632113 | 0.9999686 | FALSE |
| ENSG00000049246; | 0.8696915 | 0.9999686 | FALSE |
| ENSG00000162511; | 0.8714885 | 0.9999686 | FALSE |
| ENSG00000101115 | 0.871749 | 0.9999686 | FALSE |
| ENSG00000116711; | 0.8782325 | 0.9999686 | FALSE |
| ENSG00000109819; | 0.879594 | 0.9999686 | FALSE |
| ENSG00000109819; | 0.879594 | 0.9999686 | FALSE |
| ENSG00000150995 | 0.8815041 | 0.9999686 | FALSE |
| ENSG00000117289 | 0.8815041 | 0.9999686 | FALSE |
| ENSG00000109819; | 0.8868729 | 0.9999686 | FALSE |
| ENSG00000163872; | 0.8901852 | 0.9999686 | FALSE |
| ENSG00000168461 | 0.8947651 | 0.9999686 | FALSE |
| ENSG00000145632; | 0.8970297 | 0.9999686 | FALSE |
| ENSG00000115415; | 0.9000617 | 0.9999686 | FALSE |
| ENSG00000213949 | 0.9027718 | 0.9999686 | FALSE |
| ENSG00000129824; | 0.9063324 | 0.9999686 | FALSE |
| ENSG00000162433; | 0.9071465 | 0.9999686 | FALSE |
| ENSG00000171617 | 0.9170061 | 0.9999686 | FALSE |
| ENSG00000152661; | 0.9184416 | 0.9999686 | FALSE |
| ENSG00000131747 | 0.9202267 | 0.9999686 | FALSE |
| ENSG00000162433; | 0.9213458 | 0.9999686 | FALSE |
| ENSG00000213949 | 0.9262984 | 0.9999686 | FALSE |
| ENSG00000162409; | 0.9312996 | 0.9999686 | FALSE |
| ENSG00000203818; | 0.9350653 | 0.9999686 | FALSE |
| ENSG00000223865 | 0.9395345 | 0.9999686 | FALSE |
| ENSG00000163931; | 0.9457935 | 0.9999686 | FALSE |
| ENSG00000163931; | 0.9457935 | 0.9999686 | FALSE |
| ENSG00000152661; | 0.9467756 | 0.9999686 | FALSE |
| ENSG00000115415; | 0.9487792 | 0.9999686 | FALSE |
| ENSG00000223865; | 0.9492247 | 0.9999686 | FALSE |
| ENSG00000157168; | 0.9497726 | 0.9999686 | FALSE |
| ENSG00000049246; | 0.9504739 | 0.9999686 | FALSE |
| ENSG00000049246; | 0.9509358 | 0.9999686 | FALSE |
| ENSG00000171617 | 0.9523225 | 0.9999686 | FALSE |
| ENSG00000196923; | 0.9524483 | 0.9999686 | FALSE |
| ENSG00000154265 | 0.9559539 | 0.9999686 | FALSE |
| ENSG00000159023; | 0.9583629 | 0.9999686 | FALSE |
| ENSG00000203818; | 0.9622589 | 0.9999686 | FALSE |
| ENSG00000154027; | 0.967861 | 0.9999686 | FALSE |
| ENSG00000196549 | 0.9679193 | 0.9999686 | FALSE |
| ENSG00000095303 | 0.9691658 | 0.9999686 | FALSE |
| ENSG00000203818 | 0.9703641 | 0.9999686 | FALSE |
| ENSG00000223865 | 0.9703641 | 0.9999686 | FALSE |
| ENSG00000223865 | 0.9703641 | 0.9999686 | FALSE |
| ENSG00000162433; | 0.9710537 | 0.9999686 | FALSE |
| ENSG00000171617 | 0.9715158 | 0.9999686 | FALSE |
| ENSG00000049246; | 0.973069 | 0.9999686 | FALSE |
| ENSG00000162409; | 0.9734987 | 0.9999686 | FALSE |
| ENSG00000223865 | 0.9736868 | 0.9999686 | FALSE |
| ENSG00000049246; | 0.9773815 | 0.9999686 | FALSE |
| ENSG00000162409; | 0.9776181 | 0.9999686 | FALSE |
| ENSG00000159023; | 0.9787857 | 0.9999686 | FALSE |
| ENSG00000095303 | 0.9836505 | 0.9999686 | FALSE |
| ENSG00000116711; | 0.9848794 | 0.9999686 | FALSE |

| | | | |
|-----------------|-----------|-----------|-------|
| ENSG00000223865 | 0.9880546 | 0.9999686 | FALSE |
| ENSG00000189058 | 0.9882352 | 0.9999686 | FALSE |
| ENSG00000154027 | 0.9894429 | 0.9999686 | FALSE |
| ENSG00000116679 | 0.9902399 | 0.9999686 | FALSE |
| ENSG00000137463 | 0.9916731 | 0.9999686 | FALSE |
| ENSG00000162409 | 0.9922804 | 0.9999686 | FALSE |
| ENSG00000159023 | 0.9923917 | 0.9999686 | FALSE |
| ENSG00000049246 | 0.9925928 | 0.9999686 | FALSE |
| ENSG00000155324 | 0.9930982 | 0.9999686 | FALSE |
| ENSG00000223865 | 0.9931389 | 0.9999686 | FALSE |
| ENSG00000131778 | 0.9944889 | 0.9999686 | FALSE |
| ENSG00000131747 | 0.995927 | 0.9999686 | FALSE |
| ENSG00000154678 | 0.9973086 | 0.9999686 | FALSE |
| ENSG00000162409 | 0.997792 | 0.9999686 | FALSE |
| ENSG00000154027 | 0.9983761 | 0.9999686 | FALSE |
| ENSG00000159023 | 0.9989339 | 0.9999686 | FALSE |
| ENSG00000049246 | 0.9990239 | 0.9999686 | FALSE |
| ENSG00000203818 | 0.9994238 | 0.9999686 | FALSE |
| ENSG00000162409 | 0.9996278 | 0.9999686 | FALSE |
| ENSG00000159023 | 0.9998584 | 0.9999686 | FALSE |
| ENSG00000159023 | 0.9998584 | 0.9999686 | FALSE |
| ENSG00000203818 | 0.9998702 | 0.9999686 | FALSE |
| ENSG00000116679 | 0.9998806 | 0.9999686 | FALSE |
| ENSG00000159023 | 0.9999686 | 0.9999686 | FALSE |

| |
|---|
| Names |
| Total |
| GO:0005102//receptor binding |
| GO:0097367//carbohydrate derivative binding |
| GO:0019838//growth factor binding |
| GO:0005539//glycosaminoglycan binding |
| GO:0019199//transmembrane receptor protein kinase activity |
| GO:0004714//transmembrane receptor protein tyrosine kinase activity |
| GO:0005515//protein binding |
| GO:0008201//heparin binding |
| GO:0001848//complement binding |
| GO:0005488//binding |
| GO:1901681//sulfur compound binding |
| GO:0017147//Wnt-protein binding |
| GO:0001664//G-protein coupled receptor binding |
| GO:0046332//SMAD binding |
| GO:0005201//extracellular matrix structural constituent |
| GO:0038024//cargo receptor activity |
| GO:0008237//metallopeptidase activity |
| GO:0030881//beta-2-microglobulin binding |
| GO:NM_0059 |
| GO:0005509//calcium ion binding |
| GO:0004175//endopeptidase activity |
| GO:0004713//protein tyrosine kinase activity |
| GO:0048407//platelet-derived growth factor binding |
| GO:0008376//acetylgalactosaminyltransferase activity |
| GO:0070011//peptidase activity, acting on L-amino acid peptides |
| GO:0004033//aldo-keto reductase (NADP) activity |
| GO:0004222//metalloendopeptidase activity |
| GO:0008106//alcohol dehydrogenase (NADP+) activity |
| GO:0008233//peptidase activity |
| GO:0016705//oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen |
| GO:0070851//growth factor receptor binding |
| GO:0070412//R-SMAD binding |
| GO:0004029//aldehyde dehydrogenase (NAD) activity |
| GO:0004653//polypeptide N-acetylgalactosaminyltransferase activity |
| GO:0004784//superoxide dismutase activity |
| GO:0016721//oxidoreductase activity, acting on superoxide radicals as acceptor |
| GO:0004252//serine-type endopeptidase activity |
| GO:0031690//adrenergic receptor binding |
| GO:0046703//natural killer cell lectin-like receptor binding |
| GO:0005044//scavenger receptor activity |
| GO:0008083//growth factor activity |
| GO:0017171//serine hydrolase activity |
| GO:0016773//phosphotransferase activity, alcohol group as acceptor |
| GO:0003824//catalytic activity |
| GO:0032052//bile acid binding |
| GO:0019955//cytokine binding |
| GO:0051213//dioxygenase activity |
| GO:0030228//lipoprotein particle receptor activity |
| GO:0016491//oxidoreductase activity |
| GO:0019899//enzyme binding |
| GO:0016641//oxidoreductase activity, acting on the CH-NH2 group of donors, oxygen as acceptor |
| GO:0004030//aldehyde dehydrogenase [NAD(P)+] activity |
| GO:0004032//alditol:NADP+ 1-oxidoreductase activity |
| GO:0016301//kinase activity |
| GO:0016740//transferase activity |
| GO:0008236//serine-type peptidase activity |

| |
|---|
| GO:0004672//protein kinase activity |
| GO:0035035//histone acetyltransferase binding |
| GO:0016702//oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorp |
| GO:0005507//copper ion binding |
| GO:0016701//oxidoreductase activity, acting on single donors with incorporation of molecular oxygen |
| GO:0016638//oxidoreductase activity, acting on the CH-NH2 group of donors |
| GO:0005021//vascular endothelial growth factor-activated receptor activity |
| GO:0031543//peptidyl-proline dioxygenase activity |
| GO:NR_0014 |
| GO:0008484//sulfuric ester hydrolase activity |
| GO:0043169//cation binding |
| GO:0046872//metal ion binding |
| GO:0042802//identical protein binding |
| GO:0005126//cytokine receptor binding |
| GO:0042813//Wnt-activated receptor activity |
| GO:0017154//semaphorin receptor activity |
| GO:0005518//collagen binding |
| GO:0019200//carbohydrate kinase activity |
| GO:0043167//ion binding |
| GO:0042803//protein homodimerization activity |
| GO:0005041//low-density lipoprotein receptor activity |
| GO:0008194//UDP-glycosyltransferase activity |
| GO:0043425//bHLH transcription factor binding |
| GO:0019902//phosphatase binding |
| GO:0001085//RNA polymerase II transcription factor binding |
| GO:0019825//oxygen binding |
| GO:0004866//endopeptidase inhibitor activity |
| GO:0005161//platelet-derived growth factor receptor binding |
| GO:0050750//low-density lipoprotein particle receptor binding |
| GO:0046983//protein dimerization activity |
| GO:0005520//insulin-like growth factor binding |
| GO:0061135//endopeptidase regulator activity |
| GO:0044212//transcription regulatory region DNA binding |
| GO:0003674//molecular_function |
| GO:0002020//protease binding |
| GO:0001191//RNA polymerase II transcription factor binding transcription factor activity involved in negative r |
| GO:0030414//peptidase inhibitor activity |
| GO:0004958//prostaglandin F receptor activity |
| GO:0005004//GPI-linked ephrin receptor activity |
| GO:0005127//ciliary neurotrophic factor receptor binding |
| GO:0005536//glucose binding |
| GO:0008061//chitin binding |
| GO:0019966//interleukin-1 binding |
| GO:0045118//azole transporter activity |
| GO:1901474//azole transmembrane transporter activity |
| GO:0005540//hyaluronic acid binding |
| GO:0019903//protein phosphatase binding |
| GO:0001106//RNA polymerase II transcription corepressor activity |
| GO:0004089//carbonate dehydratase activity |
| GO:0000975//regulatory region DNA binding |
| GO:0001067//regulatory region nucleic acid binding |
| GO:0003779//actin binding |
| GO:0016709//oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular ox |
| GO:0004012//phospholipid-translocating ATPase activity |
| GO:0005160//transforming growth factor beta receptor binding |
| GO:0016209//antioxidant activity |
| GO:0016772//transferase activity, transferring phosphorus-containing groups |
| GO:0001102//RNA polymerase II activating transcription factor binding |

| |
|---|
| GO:0005544//calcium-dependent phospholipid binding |
| GO:0042826//histone deacetylase binding |
| GO:0005138//interleukin-6 receptor binding |
| GO:0030215//semaphorin receptor binding |
| GO:0031545//peptidyl-proline 4-dioxygenase activity |
| GO:0043121//neurotrophin binding |
| GO:0045236//CXCR chemokine receptor binding |
| GO:0050656//3-phosphoadenosine 5-phosphosulfate binding |
| GO:0016903//oxidoreductase activity, acting on the aldehyde or oxo group of donors |
| GO:0004867//serine-type endopeptidase inhibitor activity |
| GO:0000287//magnesium ion binding |
| GO:0008395//steroid hydroxylase activity |
| GO:0070325//lipoprotein particle receptor binding |
| GO:0004497//monooxygenase activity |
| GO:0004857//enzyme inhibitor activity |
| GO:0034185//apolipoprotein binding |
| GO:0048029//monosaccharide binding |
| GO:0004017//adenylate kinase activity |
| GO:0004115//3,5-cyclic-AMP phosphodiesterase activity |
| GO:0004568//chitinase activity |
| GO:0008443//phosphofructokinase activity |
| GO:0019798//procollagen-proline dioxygenase activity |
| GO:0035251//UDP-glucosyltransferase activity |
| GO:0016706//oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen |
| GO:0016620//oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor |
| GO:0043168//anion binding |
| GO:0008009//chemokine activity |
| GO:0005154//epidermal growth factor receptor binding |
| GO:0090484//drug transporter activity |
| GO:0005109//frizzled binding |
| GO:0004872//receptor activity |
| GO:0031406//carboxylic acid binding |
| GO:0020037//heme binding |
| GO:0016757//transferase activity, transferring glycosyl groups |
| GO:0046982//protein heterodimerization activity |
| GO:0001076//RNA polymerase II transcription factor binding transcription factor activity |
| GO:0004716//receptor signaling protein tyrosine kinase activity |
| GO:0005172//vascular endothelial growth factor receptor binding |
| GO:0003714//transcription corepressor activity |
| GO:0061134//peptidase regulator activity |
| GO:0030674//protein binding, bridging |
| GO:0031418//L-ascorbic acid binding |
| GO:0033293//monocarboxylic acid binding |
| GO:0008146//sulfotransferase activity |
| GO:0003810//protein-glutamine gamma-glutamyltransferase activity |
| GO:0005005//transmembrane-ephrin receptor activity |
| GO:0019534//toxin transporter activity |
| GO:0046527//glucosyltransferase activity |
| GO:0016758//transferase activity, transferring hexosyl groups |
| GO:0030145//manganese ion binding |
| GO:0008373//sialyltransferase activity |
| GO:0046906//tetrapyrrole binding |
| GO:0008092//cytoskeletal protein binding |
| GO:0042379//chemokine receptor binding |
| GO:0008307//structural constituent of muscle |
| GO:0004708//MAP kinase kinase activity |
| GO:0004955//prostaglandin receptor activity |
| GO:0005243//gap junction channel activity |

| |
|---|
| GO:0070410//co-SMAD binding |
| GO:0000976//transcription regulatory region sequence-specific DNA binding |
| GO:0005506//iron ion binding |
| GO:0004114//3,5-cyclic-nucleotide phosphodiesterase activity |
| GO:0019843//rRNA binding |
| GO:0005057//receptor signaling protein activity |
| GO:0001540//beta-amyloid binding |
| GO:0004112//cyclic-nucleotide phosphodiesterase activity |
| GO:0004623//phospholipase A2 activity |
| GO:0016628//oxidoreductase activity, acting on the CH-CH group of donors, NAD or NADP as acceptor |
| GO:0004954//prostanoid receptor activity |
| GO:0042301//phosphate ion binding |
| GO:0005178//integrin binding |
| GO:0000987//core promoter proximal region sequence-specific DNA binding |
| GO:0060090//binding, bridging |
| GO:0005158//insulin receptor binding |
| GO:0046875//ephrin receptor binding |
| GO:0004221//ubiquitin thiolesterase activity |
| GO:0008528//G-protein coupled peptide receptor activity |
| GO:0001159//core promoter proximal region DNA binding |
| GO:0004601//peroxidase activity |
| GO:0016684//oxidoreductase activity, acting on peroxide as acceptor |
| GO:0033613//activating transcription factor binding |
| GO:0004065//arylsulfatase activity |
| GO:0008191//metalloendopeptidase inhibitor activity |
| GO:0010576//metalloenzyme regulator activity |
| GO:0048018//receptor agonist activity |
| GO:0048551//metalloenzyme inhibitor activity |
| GO:0019904//protein domain specific binding |
| GO:0070888//E-box binding |
| GO:0001104//RNA polymerase II transcription cofactor activity |
| GO:0004702//receptor signaling protein serine/threonine kinase activity |
| GO:0005070//SH3/SH2 adaptor activity |
| GO:0000982//RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription |
| GO:0001653//peptide receptor activity |
| GO:0016836//hydro-lyase activity |
| GO:0000978//RNA polymerase II core promoter proximal region sequence-specific DNA binding |
| GO:0043621//protein self-association |
| GO:0005516//calmodulin binding |
| GO:0004622//lysophospholipase activity |
| GO:0022829//wide pore channel activity |
| GO:0051721//protein phosphatase 2A binding |
| GO:0005548//phospholipid transporter activity |
| GO:0016782//transferase activity, transferring sulfur-containing groups |
| GO:0004896//cytokine receptor activity |
| GO:0050839//cell adhesion molecule binding |
| GO:0003682//chromatin binding |
| GO:0004953//icosanoid receptor activity |
| GO:0008601//protein phosphatase type 2A regulator activity |
| GO:0048020//CCR chemokine receptor binding |
| GO:0004871//signal transducer activity |
| GO:0060089//molecular transducer activity |
| GO:0005179//hormone activity |
| GO:0001078//RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription |
| GO:0005080//protein kinase C binding |
| GO:0004620//phospholipase activity |
| GO:0030246//carbohydrate binding |
| GO:0001871//pattern binding |

| |
|---|
| GO:0003756//protein disulfide isomerase activity |
| GO:0016864//intramolecular oxidoreductase activity, transposing S-S bonds |
| GO:0030247//polysaccharide binding |
| GO:0043492//ATPase activity, coupled to movement of substances |
| GO:0016860//intramolecular oxidoreductase activity |
| GO:0030165//PDZ domain binding |
| GO:0004675//transmembrane receptor protein serine/threonine kinase activity |
| GO:0004709//MAP kinase kinase kinase activity |
| GO:0005024//transforming growth factor beta-activated receptor activity |
| GO:0016862//intramolecular oxidoreductase activity, interconverting keto- and enol-groups |
| GO:0043548//phosphatidylinositol 3-kinase binding |
| GO:0001227//RNA polymerase II transcription regulatory region sequence-specific DNA binding transcription |
| GO:0030545//receptor regulator activity |
| GO:0050840//extracellular matrix binding |
| GO:0004806//triglyceride lipase activity |
| GO:0005003//ephrin receptor activity |
| GO:0017134//fibroblast growth factor binding |
| GO:0000988//protein binding transcription factor activity |
| GO:0001948//glycoprotein binding |
| GO:0019900//kinase binding |
| GO:0019842//vitamin binding |
| GO:0042056//chemoattractant activity |
| GO:0051183//vitamin transporter activity |
| GO:0032403//protein complex binding |
| GO:0000989//transcription factor binding transcription factor activity |
| GO:0070491//repressing transcription factor binding |
| GO:0015291//secondary active transmembrane transporter activity |
| GO:0035591//signaling adaptor activity |
| GO:0043130//ubiquitin binding |
| GO:0019201//nucleotide kinase activity |
| GO:0031490//chromatin DNA binding |
| GO:0042277//peptide binding |
| GO:0003712//transcription cofactor activity |
| GO:0016835//carbon-oxygen lyase activity |
| GO:0000014//single-stranded DNA specific endodeoxyribonuclease activity |
| GO:0001517//N-acetylglucosamine 6-O-sulfotransferase activity |
| GO:0001846//opsonin binding |
| GO:0004028//3-chloroallyl aldehyde dehydrogenase activity |
| GO:0004340//glucokinase activity |
| GO:0004366//glycerol-3-phosphate O-acyltransferase activity |
| GO:0004396//hexokinase activity |
| GO:0004630//phospholipase D activity |
| GO:0004634//phosphopyruvate hydratase activity |
| GO:0004679//AMP-activated protein kinase activity |
| GO:0004936//alpha-adrenergic receptor activity |
| GO:0005007//fibroblast growth factor-activated receptor activity |
| GO:0008131//primary amine oxidase activity |
| GO:0008467//[heparan sulfate]-glucosamine 3-sulfotransferase 1 activity |
| GO:0008517//folic acid transporter activity |
| GO:0008865//fructokinase activity |
| GO:0015174//basic amino acid transmembrane transporter activity |
| GO:0016413//O-acetyltransferase activity |
| GO:0019158//mannokinase activity |
| GO:0031694//alpha-2A adrenergic receptor binding |
| GO:0032036//myosin heavy chain binding |
| GO:0032453//histone demethylase activity (H3-K4 specific) |
| GO:0035252//UDP-xylosyltransferase activity |
| GO:0035259//glucocorticoid receptor binding |

| |
|---|
| GO:0042285//xylosyltransferase activity |
| GO:0045499//chemorepellent activity |
| GO:0048406//nerve growth factor binding |
| GO:0050998//nitric-oxide synthase binding |
| GO:0055103//ligase regulator activity |
| GO:NM_0145 |
| GO:NM_0211 |
| GO:NR_0021 |
| GO:0008238//exopeptidase activity |
| GO:0001968//fibronectin binding |
| GO:0019956//chemokine binding |
| GO:0045296//cadherin binding |
| GO:0003690//double-stranded DNA binding |
| GO:0033218//amide binding |
| GO:0046943//carboxylic acid transmembrane transporter activity |
| GO:0004843//ubiquitin-specific protease activity |
| GO:0005125//cytokine activity |
| GO:0071813//lipoprotein particle binding |
| GO:0071814//protein-lipid complex binding |
| GO:1901682//sulfur compound transmembrane transporter activity |
| GO:0005319//lipid transporter activity |
| GO:0008301//DNA binding, bending |
| GO:0016298//lipase activity |
| GO:0017124//SH3 domain binding |
| GO:0005342//organic acid transmembrane transporter activity |
| GO:0015179//L-amino acid transmembrane transporter activity |
| GO:0016755//transferase activity, transferring amino-acyl groups |
| GO:0003916//DNA topoisomerase activity |
| GO:0004035//alkaline phosphatase activity |
| GO:0004128//cytochrome-b5 reductase activity, acting on NAD(P)H |
| GO:0004322//ferroxidase activity |
| GO:0004331//fructose-2,6-bisphosphate 2-phosphatase activity |
| GO:0004645//phosphorylase activity |
| GO:0005072//transforming growth factor beta receptor, cytoplasmic mediator activity |
| GO:0005114//type II transforming growth factor beta receptor binding |
| GO:0008035//high-density lipoprotein particle binding |
| GO:0008140//cAMP response element binding protein binding |
| GO:0008179//adenylate cyclase binding |
| GO:0016165//linoleate 13S-lipoxygenase activity |
| GO:0016174//NAD(P)H oxidase activity |
| GO:0016595//glutamate binding |
| GO:0016670//oxidoreductase activity, acting on a sulfur group of donors, oxygen as acceptor |
| GO:0016724//oxidoreductase activity, oxidizing metal ions, oxygen as acceptor |
| GO:0017081//chloride channel regulator activity |
| GO:0030955//potassium ion binding |
| GO:0031702//type 1 angiotensin receptor binding |
| GO:0031994//insulin-like growth factor I binding |
| GO:0035014//phosphatidylinositol 3-kinase regulator activity |
| GO:0043237//laminin-1 binding |
| GO:0043426//MRF binding |
| GO:0050291//sphingosine N-acyltransferase activity |
| GO:0050780//dopamine receptor binding |
| GO:0070087//chromo shadow domain binding |
| GO:0070097//delta-catenin binding |
| GO:0070492//oligosaccharide binding |
| GO:NM_0018 |
| GO:NM_0048 |
| GO:NM_0066 |

| |
|---|
| GO:NM_0203 |
| GO:0008234//cysteine-type peptidase activity |
| GO:0008514//organic anion transmembrane transporter activity |
| GO:0015026//coreceptor activity |
| GO:0032559//adenyl ribonucleotide binding |
| GO:0072341//modified amino acid binding |
| GO:0016790//thiolester hydrolase activity |
| GO:0030554//adenyl nucleotide binding |
| GO:0001637//G-protein coupled chemoattractant receptor activity |
| GO:0004950//chemokine receptor activity |
| GO:0030546//receptor activator activity |
| GO:0000155//phosphorelay sensor kinase activity |
| GO:0004908//interleukin-1 receptor activity |
| GO:0008046//axon guidance receptor activity |
| GO:0016208//AMP binding |
| GO:0016494//C-X-C chemokine receptor activity |
| GO:0016671//oxidoreductase activity, acting on a sulfur group of donors, disulfide as acceptor |
| GO:0030898//actin-dependent ATPase activity |
| GO:0031701//angiotensin receptor binding |
| GO:0031996//thioesterase binding |
| GO:0045294//alpha-catenin binding |
| GO:0047498//calcium-dependent phospholipase A2 activity |
| GO:NM_0003 |
| GO:0004674//protein serine/threonine kinase activity |
| GO:0019783//small conjugating protein-specific protease activity |
| GO:0019901//protein kinase binding |
| GO:0022804//active transmembrane transporter activity |
| GO:0030295//protein kinase activator activity |
| GO:0043236//laminin binding |
| GO:0008374//O-acyltransferase activity |
| GO:0032182//small conjugating protein binding |
| GO:0008081//phosphoric diester hydrolase activity |
| GO:0008134//transcription factor binding |
| GO:0009055//electron carrier activity |
| GO:0016614//oxidoreductase activity, acting on CH-OH group of donors |
| GO:0051015//actin filament binding |
| GO:0016655//oxidoreductase activity, acting on NAD(P)H, quinone or similar compound as acceptor |
| GO:0015020//glucuronosyltransferase activity |
| GO:0017022//myosin binding |
| GO:0038023//signaling receptor activity |
| GO:0000983//RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity |
| GO:0003964//RNA-directed DNA polymerase activity |
| GO:0004126//cytidine deaminase activity |
| GO:0004673//protein histidine kinase activity |
| GO:0005095//GTPase inhibitor activity |
| GO:0008253//5-nucleotidase activity |
| GO:0008271//secondary active sulfate transmembrane transporter activity |
| GO:0016175//superoxide-generating NADPH oxidase activity |
| GO:0016832//aldehyde-lyase activity |
| GO:0019206//nucleoside kinase activity |
| GO:0030296//protein tyrosine kinase activator activity |
| GO:0030547//receptor inhibitor activity |
| GO:0048019//receptor antagonist activity |
| GO:0050786//RAGE receptor binding |
| GO:0070411//I-SMAD binding |
| GO:0071949//FAD binding |
| GO:NM_0032 |
| GO:NM_0142 |

| |
|--|
| GO:0005215//transporter activity |
| GO:0015171//amino acid transmembrane transporter activity |
| GO:0016853//isomerase activity |
| GO:0004888//transmembrane signaling receptor activity |
| GO:0004712//protein serine/threonine/tyrosine kinase activity |
| GO:0019239//deaminase activity |
| GO:0043566//structure-specific DNA binding |
| GO:0004197//cysteine-type endopeptidase activity |
| GO:0005496//steroid binding |
| GO:0004000//adenosine deaminase activity |
| GO:0004551//nucleotide diphosphatase activity |
| GO:0004935//adrenergic receptor activity |
| GO:0005123//death receptor binding |
| GO:0005521//lamin binding |
| GO:0008195//phosphatidate phosphatase activity |
| GO:0008430//selenium binding |
| GO:0015643//toxic substance binding |
| GO:0016857//racemase and epimerase activity, acting on carbohydrates and derivatives |
| GO:0030507//spectrin binding |
| GO:0070696//transmembrane receptor protein serine/threonine kinase binding |
| GO:0071837//HMG box domain binding |
| GO:NM_0007 |
| GO:NM_0022 |
| GO:NM_0024 |
| GO:0001077//RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription |
| GO:0001046//core promoter sequence-specific DNA binding |
| GO:0004177//aminopeptidase activity |
| GO:0005501//retinoid binding |
| GO:0019840//isoprenoid binding |
| GO:0033764//steroid dehydrogenase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor |
| GO:0031625//ubiquitin protein ligase binding |
| GO:0044389//small conjugating protein ligase binding |
| GO:0005524//ATP binding |
| GO:0022892//substrate-specific transporter activity |
| GO:0008013//beta-catenin binding |
| GO:0016667//oxidoreductase activity, acting on a sulfur group of donors |
| GO:0035258//steroid hormone receptor binding |
| GO:0016616//oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor |
| GO:0004982//N-formyl peptide receptor activity |
| GO:0008239//dipeptidyl-peptidase activity |
| GO:0008252//nucleotidase activity |
| GO:0015175//neutral amino acid transmembrane transporter activity |
| GO:0015238//drug transmembrane transporter activity |
| GO:0015296//anion:cation symporter activity |
| GO:0016303//1-phosphatidylinositol-3-kinase activity |
| GO:0016812//hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amides |
| GO:0017153//sodium:dicarboxylate symporter activity |
| GO:0019203//carbohydrate phosphatase activity |
| GO:0031420//alkali metal ion binding |
| GO:0033612//receptor serine/threonine kinase binding |
| GO:0050308//sugar-phosphatase activity |
| GO:0051428//peptide hormone receptor binding |
| GO:NM_0047 |
| GO:0022857//transmembrane transporter activity |
| GO:0019209//kinase activator activity |
| GO:0030971//receptor tyrosine kinase binding |
| GO:0048306//calcium-dependent protein binding |
| GO:0019207//kinase regulator activity |

| |
|---|
| GO:0004016//adenylate cyclase activity |
| GO:0004522//pancreatic ribonuclease activity |
| GO:0005112//Notch binding |
| GO:0005159//insulin-like growth factor receptor binding |
| GO:0005344//oxygen transporter activity |
| GO:0005372//water transmembrane transporter activity |
| GO:0015116//sulfate transmembrane transporter activity |
| GO:0016722//oxidoreductase activity, oxidizing metal ions |
| GO:0016775//phosphotransferase activity, nitrogenous group as acceptor |
| GO:0016868//intramolecular transferase activity, phosphotransferases |
| GO:0016884//carbon-nitrogen ligase activity, with glutamine as amido-N-donor |
| GO:0017025//TBP-class protein binding |
| GO:0017166//vinculin binding |
| GO:0031432//titin binding |
| GO:0035004//phosphatidylinositol 3-kinase activity |
| GO:0042166//acetylcholine binding |
| GO:0045295//gamma-catenin binding |
| GO:0050431//transforming growth factor beta binding |
| GO:0070008//serine-type exopeptidase activity |
| GO:0070403//NAD+ binding |
| GO:0071855//neuropeptide receptor binding |
| GO:NM_0037 |
| GO:0000977//RNA polymerase II regulatory region sequence-specific DNA binding |
| GO:0016229//steroid dehydrogenase activity |
| GO:0016814//hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amidines |
| GO:0043565//sequence-specific DNA binding |
| GO:0016787//hydrolase activity |
| GO:0001228//RNA polymerase II transcription regulatory region sequence-specific DNA binding transcription |
| GO:0016627//oxidoreductase activity, acting on the CH-CH group of donors |
| GO:0005198//structural molecule activity |
| GO:0016776//phosphotransferase activity, phosphate group as acceptor |
| GO:0019003//GDP binding |
| GO:0001012//RNA polymerase II regulatory region DNA binding |
| GO:0003708//retinoic acid receptor activity |
| GO:0004861//cyclin-dependent protein serine/threonine kinase inhibitor activity |
| GO:0005542//folic acid binding |
| GO:0016653//oxidoreductase activity, acting on NAD(P)H, heme protein as acceptor |
| GO:0030159//receptor signaling complex scaffold activity |
| GO:0034483//heparan sulfate sulfotransferase activity |
| GO:0035173//histone kinase activity |
| GO:0048185//activin binding |
| GO:0071889//14-3-3 protein binding |
| GO:NM_0068 |
| GO:0005100//Rho GTPase activator activity |
| GO:0016788//hydrolase activity, acting on ester bonds |
| GO:0008289//lipid binding |
| GO:0008509//anion transmembrane transporter activity |
| GO:0019887//protein kinase regulator activity |
| GO:0003785//actin monomer binding |
| GO:0008093//cytoskeletal adaptor activity |
| GO:0008170//N-methyltransferase activity |
| GO:0016861//intramolecular oxidoreductase activity, interconverting aldoses and ketoses |
| GO:0017110//nucleoside-diphosphatase activity |
| GO:0017127//cholesterol transporter activity |
| GO:0042043//neurexin family protein binding |
| GO:0050664//oxidoreductase activity, acting on NAD(P)H, oxygen as acceptor |
| GO:0051184//cofactor transporter activity |
| GO:0052742//phosphatidylinositol kinase activity |

| |
|---|
| GO:0005200//structural constituent of cytoskeleton |
| GO:0005149//interleukin-1 receptor binding |
| GO:0005545//1-phosphatidylinositol binding |
| GO:0015248//sterol transporter activity |
| GO:0015464//acetylcholine receptor activity |
| GO:0016854//racemase and epimerase activity |
| GO:0016892//endoribonuclease activity, producing 3-phosphomonoesters |
| GO:0050253//retinyl-palmitate esterase activity |
| GO:1901338//catecholamine binding |
| GO:1901677//phosphate transmembrane transporter activity |
| GO:0008757//S-adenosylmethionine-dependent methyltransferase activity |
| GO:0015293//symporter activity |
| GO:0008022//protein C-terminus binding |
| GO:0016651//oxidoreductase activity, acting on NAD(P)H |
| GO:0000981//sequence-specific DNA binding RNA polymerase II transcription factor activity |
| GO:0004143//diacylglycerol kinase activity |
| GO:0032452//histone demethylase activity |
| GO:0043395//heparan sulfate proteoglycan binding |
| GO:0004860//protein kinase inhibitor activity |
| GO:0008235//metalloexopeptidase activity |
| GO:0030234//enzyme regulator activity |
| GO:0016597//amino acid binding |
| GO:0001786//phosphatidylserine binding |
| GO:0001972//retinoic acid binding |
| GO:0004198//calcium-dependent cysteine-type endopeptidase activity |
| GO:0005104//fibroblast growth factor receptor binding |
| GO:0016922//ligand-dependent nuclear receptor binding |
| GO:0030552//cAMP binding |
| GO:0050699//WW domain binding |
| GO:0017137//Rab GTPase binding |
| GO:0019205//nucleobase-containing compound kinase activity |
| GO:0032555//purine ribonucleotide binding |
| GO:0003713//transcription coactivator activity |
| GO:0032550//purine ribonucleoside binding |
| GO:0052689//carboxylic ester hydrolase activity |
| GO:0008324//cation transmembrane transporter activity |
| GO:0050660//flavin adenine dinucleotide binding |
| GO:0001103//RNA polymerase II repressing transcription factor binding |
| GO:0005527//macrolide binding |
| GO:0005528//FK506 binding |
| GO:0008242//omega peptidase activity |
| GO:0008603//cAMP-dependent protein kinase regulator activity |
| GO:0030276//clathrin binding |
| GO:0042165//neurotransmitter binding |
| GO:0043027//cysteine-type endopeptidase inhibitor activity involved in apoptotic process |
| GO:0097110//scaffold protein binding |
| GO:0001883//purine nucleoside binding |
| GO:0019210//kinase inhibitor activity |
| GO:0044325//ion channel binding |
| GO:0032549//ribonucleoside binding |
| GO:0017076//purine nucleotide binding |
| GO:0005543//phospholipid binding |
| GO:0022891//substrate-specific transmembrane transporter activity |
| GO:0042578//phosphoric ester hydrolase activity |
| GO:0004602//glutathione peroxidase activity |
| GO:0005086//ARF guanyl-nucleotide exchange factor activity |
| GO:0005537//mannose binding |
| GO:0030331//estrogen receptor binding |

| |
|--|
| GO:0043015//gamma-tubulin binding |
| GO:0043394//proteoglycan binding |
| GO:0032553//ribonucleotide binding |
| GO:0001882//nucleoside binding |
| GO:0001047//core promoter binding |
| GO:0005164//tumor necrosis factor receptor binding |
| GO:0008138//protein tyrosine/serine/threonine phosphatase activity |
| GO:0019888//protein phosphatase regulator activity |
| GO:0001105//RNA polymerase II transcription coactivator activity |
| GO:0048487//beta-tubulin binding |
| GO:0003705//RNA polymerase II distal enhancer sequence-specific DNA binding transcription factor activity |
| GO:0003684//damaged DNA binding |
| GO:0000146//microfilament motor activity |
| GO:0015103//inorganic anion transmembrane transporter activity |
| GO:0051018//protein kinase A binding |
| GO:1901505//carbohydrate derivative transporter activity |
| GO:0008144//drug binding |
| GO:0004879//ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity |
| GO:0046873//metal ion transmembrane transporter activity |
| GO:0042562//hormone binding |
| GO:0000979//RNA polymerase II core promoter sequence-specific DNA binding |
| GO:0005310//dicarboxylic acid transmembrane transporter activity |
| GO:0008227//G-protein coupled amine receptor activity |
| GO:0008483//transaminase activity |
| GO:0016538//cyclin-dependent protein serine/threonine kinase regulator activity |
| GO:0016799//hydrolase activity, hydrolyzing N-glycosyl compounds |
| GO:0016849//phosphorus-oxygen lyase activity |
| GO:0030291//protein serine/threonine kinase inhibitor activity |
| GO:NM_0252 |
| GO:0008168//methyltransferase activity |
| GO:0035639//purine ribonucleoside triphosphate binding |
| GO:0016829//lyase activity |
| GO:0016746//transferase activity, transferring acyl groups |
| GO:0002039//p53 binding |
| GO:0003707//steroid hormone receptor activity |
| GO:0008017//microtubule binding |
| GO:0009975//cyclase activity |
| GO:0016411//acylglycerol O-acyltransferase activity |
| GO:0031683//G-protein beta/gamma-subunit complex binding |
| GO:0032451//demethylase activity |
| GO:0035254//glutamate receptor binding |
| GO:0042887//amide transmembrane transporter activity |
| GO:0070330//aromatase activity |
| GO:0015075//ion transmembrane transporter activity |
| GO:0016763//transferase activity, transferring pentosyl groups |
| GO:0042626//ATPase activity, coupled to transmembrane movement of substances |
| GO:0005343//organic acid:sodium symporter activity |
| GO:0016769//transferase activity, transferring nitrogenous groups |
| GO:0022890//inorganic cation transmembrane transporter activity |
| GO:0016741//transferase activity, transferring one-carbon groups |
| GO:0004842//ubiquitin-protein ligase activity |
| GO:0032813//tumor necrosis factor receptor superfamily binding |
| GO:0004129//cytochrome-c oxidase activity |
| GO:0004181//metallocarboxypeptidase activity |
| GO:0005504//fatty acid binding |
| GO:0015002//heme-copper terminal oxidase activity |
| GO:0016675//oxidoreductase activity, acting on a heme group of donors |
| GO:0016676//oxidoreductase activity, acting on a heme group of donors, oxygen as acceptor |

| |
|--|
| GO:0016894//endonuclease activity, active with either ribo- or deoxyribonucleic acids and producing 3-phosp |
| GO:0016765//transferase activity, transferring alkyl or aryl (other than methyl) groups |
| GO:0019208//phosphatase regulator activity |
| GO:0016747//transferase activity, transferring acyl groups other than amino-acyl groups |
| GO:0001190//RNA polymerase II transcription factor binding transcription factor activity involved in positive re |
| GO:0003950//NAD+ ADP-ribosyltransferase activity |
| GO:0005244//voltage-gated ion channel activity |
| GO:0008028//monocarboxylic acid transmembrane transporter activity |
| GO:0022832//voltage-gated channel activity |
| GO:0050997//quaternary ammonium group binding |
| GO:0017016//Ras GTPase binding |
| GO:0030170//pyridoxal phosphate binding |
| GO:0048037//cofactor binding |
| GO:0016879//ligase activity, forming carbon-nitrogen bonds |
| GO:0004693//cyclin-dependent protein serine/threonine kinase activity |
| GO:0016712//oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular ox |
| GO:0030594//neurotransmitter receptor activity |
| GO:0097472//cyclin-dependent protein kinase activity |
| GO:0015399//primary active transmembrane transporter activity |
| GO:0015405//P-P-bond-hydrolysis-driven transmembrane transporter activity |
| GO:0035091//phosphatidylinositol binding |
| GO:0005546//phosphatidylinositol-4,5-bisphosphate binding |
| GO:0015035//protein disulfide oxidoreductase activity |
| GO:0030551//cyclic nucleotide binding |
| GO:0042605//peptide antigen binding |
| GO:NM_0010 |
| GO:0004435//phosphatidylinositol phospholipase C activity |
| GO:0019787//small conjugating protein ligase activity |
| GO:0016866//intramolecular transferase activity |
| GO:0016820//hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substanc |
| GO:0004629//phospholipase C activity |
| GO:0008060//ARF GTPase activator activity |
| GO:0017046//peptide hormone binding |
| GO:0019905//syntaxin binding |
| GO:0015267//channel activity |
| GO:0022803//passive transmembrane transporter activity |
| GO:0042623//ATPase activity, coupled |
| GO:0000049//tRNA binding |
| GO:0042169//SH2 domain binding |
| GO:0031267//small GTPase binding |
| GO:0015631//tubulin binding |
| GO:0016791//phosphatase activity |
| GO:0004520//endodeoxyribonuclease activity |
| GO:0015036//disulfide oxidoreductase activity |
| GO:0015078//hydrogen ion transmembrane transporter activity |
| GO:0015485//cholesterol binding |
| GO:0046914//transition metal ion binding |
| GO:0016798//hydrolase activity, acting on glycosyl bonds |
| GO:0051427//hormone receptor binding |
| GO:0050681//androgen receptor binding |
| GO:0004091//carboxylesterase activity |
| GO:0043028//cysteine-type endopeptidase regulator activity involved in apoptotic process |
| GO:0004553//hydrolase activity, hydrolyzing O-glycosyl compounds |
| GO:0016887//ATPase activity |
| GO:0030374//ligand-dependent nuclear receptor transcription coactivator activity |
| GO:0051020//GTPase binding |
| GO:0004003//ATP-dependent DNA helicase activity |
| GO:0035064//methylated histone residue binding |

| |
|---|
| GO:0004180//carboxypeptidase activity |
| GO:0032947//protein complex scaffold |
| GO:0034061//DNA polymerase activity |
| GO:0005089//Rho guanyl-nucleotide exchange factor activity |
| GO:0032934//sterol binding |
| GO:0004519//endonuclease activity |
| GO:0008565//protein transporter activity |
| GO:0005096//GTPase activator activity |
| GO:0003725//double-stranded RNA binding |
| GO:0051087//chaperone binding |
| GO:0008094//DNA-dependent ATPase activity |
| GO:0005099//Ras GTPase activator activity |
| GO:0000149//SNARE binding |
| GO:0036094//small molecule binding |
| GO:0015077//monovalent inorganic cation transmembrane transporter activity |
| GO:0003755//peptidyl-prolyl cis-trans isomerase activity |
| GO:0016881//acid-amino acid ligase activity |
| GO:0000166//nucleotide binding |
| GO:1901265//nucleoside phosphate binding |
| GO:0035257//nuclear hormone receptor binding |
| GO:0004715//non-membrane spanning protein tyrosine kinase activity |
| GO:0016859//cis-trans isomerase activity |
| GO:0051287//NAD binding |
| GO:0003823//antigen binding |
| GO:0004536//deoxyribonuclease activity |
| GO:0004869//cysteine-type endopeptidase inhibitor activity |
| GO:0015081//sodium ion transmembrane transporter activity |
| GO:0015294//solute:cation symporter activity |
| GO:0015370//solute:sodium symporter activity |
| GO:0016830//carbon-carbon lyase activity |
| GO:0003700//sequence-specific DNA binding transcription factor activity |
| GO:0004521//endoribonuclease activity |
| GO:0022836//gated channel activity |
| GO:0022839//ion gated channel activity |
| GO:0001071//nucleic acid binding transcription factor activity |
| GO:0015276//ligand-gated ion channel activity |
| GO:0022834//ligand-gated channel activity |
| GO:0031072//heat shock protein binding |
| GO:NM_0011 |
| GO:0016407//acetyltransferase activity |
| GO:0016410//N-acyltransferase activity |
| GO:0016810//hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds |
| GO:0003678//DNA helicase activity |
| GO:0017048//Rho GTPase binding |
| GO:0051082//unfolded protein binding |
| GO:0005097//Rab GTPase activator activity |
| GO:NM_0012 |
| GO:0005083//small GTPase regulator activity |
| GO:0004812//aminoacyl-tRNA ligase activity |
| GO:0016875//ligase activity, forming carbon-oxygen bonds |
| GO:0016876//ligase activity, forming aminoacyl-tRNA and related compounds |
| GO:0005216//ion channel activity |
| GO:0030695//GTPase regulator activity |
| GO:1901981//phosphatidylinositol phosphate binding |
| GO:0060589//nucleoside-triphosphatase regulator activity |
| GO:ENST000 |
| GO:0016247//channel regulator activity |
| GO:0003924//GTPase activity |

| |
|--|
| GO:0042393//histone binding |
| GO:0050662//coenzyme binding |
| GO:0022838//substrate-specific channel activity |
| GO:0016874//ligase activity |
| GO:0043178//alcohol binding |
| GO:0005088//Ras guanyl-nucleotide exchange factor activity |
| GO:0005525//GTP binding |
| GO:0008047//enzyme activator activity |
| GO:0003774//motor activity |
| GO:0019001//guanyl nucleotide binding |
| GO:0032561//guanyl ribonucleotide binding |
| GO:0004721//phosphoprotein phosphatase activity |
| GO:0004540//ribonuclease activity |
| GO:0047485//protein N-terminus binding |
| GO:0003729//mRNA binding |
| GO:0008026//ATP-dependent helicase activity |
| GO:0070035//purine NTP-dependent helicase activity |
| GO:0017111//nucleoside-triphosphatase activity |
| GO:0005085//guanyl-nucleotide exchange factor activity |
| GO:0016462//pyrophosphatase activity |
| GO:0016818//hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides |
| GO:0004518//nuclease activity |
| GO:0008270//zinc ion binding |
| GO:0003735//structural constituent of ribosome |
| GO:0016817//hydrolase activity, acting on acid anhydrides |
| GO:0004386//helicase activity |
| GO:0004930//G-protein coupled receptor activity |
| GO:0016779//nucleotidyltransferase activity |
| GO:0003677//DNA binding |
| GO:0003723//RNA binding |
| GO:0097159//organic cyclic compound binding |
| GO:1901363//heterocyclic compound binding |
| GO:0003676//nucleic acid binding |

| Genes_In_Term | DEG | Input_gene | Gene_Symbol | P_value | Q_value | Significant |
|---------------|-----|-----------------|------------------|-----------|-----------|-------------|
| 16391 | 645 | - | - | - | - | - |
| 1140 | 87 | TC01000904.hg.1 | ENSG00000162692; | 1.484E-09 | 8.419E-07 | TRUE |
| 180 | 27 | TC01000972.hg.1 | ENSG00000064886; | 2.145E-09 | 8.419E-07 | TRUE |
| 94 | 19 | TC01002954.hg.1 | ENSG00000134243; | 3.515E-09 | 9.198E-07 | TRUE |
| 163 | 25 | TC02000704.hg.1 | ENSG00000144152; | 5.315E-09 | 1.043E-06 | TRUE |
| 81 | 17 | TC01000723.hg.1 | ENSG00000185483; | 1.291E-08 | 2.027E-06 | TRUE |
| 65 | 15 | TC01000723.hg.1 | ENSG00000185483; | 2.382E-08 | 3.117E-06 | TRUE |
| 6571 | 324 | TC01000394.hg.1 | ENSG00000159023; | 6.73E-08 | 7.548E-06 | TRUE |
| 121 | 19 | TC02000704.hg.1 | ENSG00000144152; | 2.498E-07 | 2.451E-05 | TRUE |
| 14 | 7 | TC06004077.hg.1 | ENSG00000243649; | 3.814E-07 | 3.327E-05 | TRUE |
| 11232 | 496 | TC01000394.hg.1 | ENSG00000159023; | 1.019E-06 | 8.001E-05 | TRUE |
| 160 | 21 | TC02000704.hg.1 | ENSG00000144152; | 1.278E-06 | 9.122E-05 | TRUE |
| 27 | 8 | TC01000723.hg.1 | ENSG00000185483; | 6.29E-06 | 0.0004115 | TRUE |
| 157 | 19 | TC04000253.hg.1 | ENSG00000154277; | 1.341E-05 | 0.0008099 | TRUE |
| 51 | 10 | TC02002166.hg.1 | ENSG00000135966; | 2.463E-05 | 0.001381 | TRUE |
| 54 | 10 | TC01003718.hg.1 | ENSG00000133048; | 4.147E-05 | 0.0021705 | TRUE |
| 56 | 10 | TC01001603.hg.1 | ENSG00000116690; | 5.749E-05 | 0.0028207 | TRUE |
| 175 | 19 | TC02002480.hg.1 | ENSG00000078098; | 6.157E-05 | 0.0028432 | TRUE |
| 7 | 4 | TC06004073.hg.1 | ENSG00000204520; | 7.562E-05 | 0.0032087 | TRUE |
| 7 | 4 | TC16000474.hg.1 | ENSG00000205358; | 7.562E-05 | 0.0032087 | TRUE |
| 614 | 44 | TC01001607.hg.1 | ENSG00000116711; | 9.38E-05 | 0.0036818 | TRUE |
| 398 | 32 | TC01003211.hg.1 | ENSG00000143387; | 0.0001088 | 0.0040674 | TRUE |
| 139 | 16 | TC01000723.hg.1 | ENSG00000185483; | 0.0001158 | 0.004133 | TRUE |
| 8 | 4 | TC04002931.hg.1 | ENSG00000134853; | 0.0001465 | 0.0050009 | TRUE |
| 31 | 7 | TC01001907.hg.1 | ENSG00000143641; | 0.0001629 | 0.0053273 | TRUE |
| 576 | 41 | TC01003211.hg.1 | ENSG00000143387; | 0.0001867 | 0.0058625 | TRUE |
| 15 | 5 | TC07001883.hg.1 | ENSG00000085662; | 0.0002008 | 0.0060624 | TRUE |
| 104 | 13 | TC02002480.hg.1 | ENSG00000078098; | 0.0002187 | 0.0063582 | TRUE |
| 9 | 4 | TC07001883.hg.1 | ENSG00000085662; | 0.0002555 | 0.0067764 | TRUE |
| 604 | 42 | TC01003211.hg.1 | ENSG00000143387; | 0.0002572 | 0.0067764 | TRUE |
| 164 | 17 | TC01003638.hg.1 | ENSG00000073756; | 0.000259 | 0.0067764 | TRUE |
| 93 | 12 | TC01001188.hg.1 | ENSG00000143369; | 0.0002808 | 0.0071118 | TRUE |
| 17 | 5 | TC03000214.hg.1 | ENSG00000168036; | 0.0003875 | 0.0095062 | TRUE |
| 10 | 4 | TC09000222.hg.1 | ENSG00000137124; | 0.0004126 | 0.009816 | TRUE |
| 18 | 5 | TC01001907.hg.1 | ENSG00000143641; | 0.0005193 | 0.0119896 | TRUE |
| 5 | 3 | TC04000173.hg.1 | ENSG00000109610; | 0.0005715 | 0.0126382 | TRUE |
| 5 | 3 | TC04000173.hg.1 | ENSG00000109610; | 0.0005715 | 0.0126382 | TRUE |
| 161 | 16 | TC02002480.hg.1 | ENSG00000078098; | 0.0006218 | 0.0129796 | TRUE |
| 11 | 4 | TC04000253.hg.1 | ENSG00000154277; | 0.0006283 | 0.0129796 | TRUE |
| 19 | 5 | TC06001089.hg.1 | ENSG00000111981; | 0.0006821 | 0.0137295 | TRUE |
| 39 | 7 | TC01001603.hg.1 | ENSG00000116690; | 0.0007251 | 0.0142294 | TRUE |
| 134 | 14 | TC01001805.hg.1 | ENSG00000092969; | 0.000816 | 0.0156229 | TRUE |
| 185 | 17 | TC02002480.hg.1 | ENSG00000078098; | 0.0010366 | 0.0193567 | TRUE |
| 708 | 45 | TC01000685.hg.1 | ENSG00000162409; | 0.0010653 | 0.0193567 | TRUE |
| 5273 | 244 | TC01000643.hg.1 | ENSG00000116157; | 0.0011056 | 0.0193567 | TRUE |
| 6 | 3 | TC10000986.hg.1 | ENSG00000151632; | 0.0011096 | 0.0193567 | TRUE |
| 67 | 9 | TC02001100.hg.1 | ENSG00000138448; | 0.0011899 | 0.0203054 | TRUE |
| 81 | 10 | TC01003638.hg.1 | ENSG00000073756; | 0.0012568 | 0.0208922 | TRUE |
| 13 | 4 | TC01002669.hg.1 | ENSG00000157193; | 0.0012783 | 0.0208922 | TRUE |
| 695 | 44 | TC01000643.hg.1 | ENSG00000116157; | 0.0013041 | 0.0208922 | TRUE |
| 973 | 57 | TC01001090.hg.1 | ENSG00000117289; | 0.0016809 | 0.0263901 | TRUE |
| 14 | 4 | TC02002002.hg.1 | ENSG00000115318; | 0.0017343 | 0.0266944 | TRUE |
| 7 | 3 | TC15000971.hg.1 | ENSG00000184254; | 0.0018851 | 0.0278388 | TRUE |
| 7 | 3 | TC07001883.hg.1 | ENSG00000085662; | 0.0018851 | 0.0278388 | TRUE |
| 853 | 51 | TC01000685.hg.1 | ENSG00000162409; | 0.001915 | 0.0278388 | TRUE |
| 1747 | 92 | TC01000685.hg.1 | ENSG00000162409; | 0.0021454 | 0.0306209 | TRUE |
| 182 | 16 | TC02002480.hg.1 | ENSG00000078098; | 0.0022708 | 0.03102 | TRUE |

| | | | | | | |
|-------|-----|-----------------|------------------|-----------|-----------|-------|
| 594 | 38 | TC01000685.hg.1 | ENSG00000162409; | 0.0022784 | 0.03102 | TRUE |
| 15 | 4 | TC02000281.hg.1 | ENSG00000116016; | 0.0022919 | 0.03102 | TRUE |
| 74 | 9 | TC01003638.hg.1 | ENSG00000073756; | 0.002412 | 0.0320917 | TRUE |
| 48 | 7 | TC02002002.hg.1 | ENSG00000115318; | 0.0025573 | 0.0334581 | TRUE |
| 75 | 9 | TC01003638.hg.1 | ENSG00000073756; | 0.0026475 | 0.0340707 | TRUE |
| 17 | 4 | TC02002002.hg.1 | ENSG00000115318; | 0.0037537 | 0.0475271 | TRUE |
| 9 | 3 | TC02001206.hg.1 | ENSG00000118257; | 0.0042646 | 0.0523086 | FALSE |
| 9 | 3 | TC03002106.hg.1 | ENSG00000090530; | 0.0042646 | 0.0523086 | FALSE |
| 9 | 3 | TC06004066.hg.1 | NR_001434;NR_001 | 0.0042646 | 0.0523086 | FALSE |
| 18 | 4 | TC04001487.hg.1 | ENSG00000180801; | 0.0046779 | 0.0556381 | FALSE |
| 3759 | 176 | TC01000685.hg.1 | ENSG00000162409; | 0.0047628 | 0.0558031 | FALSE |
| 3693 | 173 | TC01000685.hg.1 | ENSG00000162409; | 0.0050803 | 0.0586478 | FALSE |
| 791 | 46 | TC01001258.hg.1 | ENSG00000160678; | 0.0052427 | 0.0596447 | FALSE |
| 217 | 17 | TC01001188.hg.1 | ENSG00000143369; | 0.0055164 | 0.0618627 | FALSE |
| 19 | 4 | TC02002714.hg.1 | ENSG00000163251; | 0.0057434 | 0.0635009 | FALSE |
| 10 | 3 | TC01003778.hg.1 | ENSG00000076356; | 0.0059155 | 0.0644954 | FALSE |
| 56 | 7 | TC01001095.hg.1 | ENSG00000143127; | 0.0061495 | 0.0661282 | FALSE |
| 20 | 4 | TC02000466.hg.1 | ENSG00000159399; | 0.0069592 | 0.0738236 | FALSE |
| 5776 | 257 | TC01000394.hg.1 | ENSG00000159023; | 0.0073625 | 0.0770612 | FALSE |
| 516 | 32 | TC01001805.hg.1 | ENSG00000092969; | 0.0076324 | 0.0788347 | FALSE |
| 11 | 3 | TC09000015.hg.1 | ENSG00000147852; | 0.0078982 | 0.0805206 | FALSE |
| 121 | 11 | TC01001907.hg.1 | ENSG00000143641; | 0.0081961 | 0.0819863 | FALSE |
| 21 | 4 | TC06000621.hg.1 | ENSG00000124813; | 0.0083335 | 0.0819863 | FALSE |
| 105 | 10 | TC03000214.hg.1 | ENSG00000168036; | 0.0083553 | 0.0819863 | FALSE |
| 61 | 7 | TC03000214.hg.1 | ENSG00000168036; | 0.0097801 | 0.0947823 | FALSE |
| 34 | 5 | TC02001750.hg.1 | ENSG00000138061; | 0.0100403 | 0.0950037 | FALSE |
| 159 | 13 | TC02000230.hg.1 | ENSG00000150938; | 0.0101538 | 0.0950037 | FALSE |
| 12 | 3 | TC02000620.hg.1 | ENSG00000115594; | 0.0102265 | 0.0950037 | FALSE |
| 12 | 3 | TC02001628.hg.1 | ENSG00000084674; | 0.0102265 | 0.0950037 | FALSE |
| 867 | 48 | TC01001805.hg.1 | ENSG00000092969; | 0.0106527 | 0.0972371 | FALSE |
| 23 | 4 | TC02000230.hg.1 | ENSG00000150938; | 0.0115881 | 0.1045592 | FALSE |
| 162 | 13 | TC02000230.hg.1 | ENSG00000150938; | 0.0117582 | 0.1048884 | FALSE |
| 312 | 21 | TC01003042.hg.1 | ENSG00000092607; | 0.0120373 | 0.105138 | FALSE |
| 14259 | 580 | TC01000100.hg.1 | ENSG00000049246; | 0.012054 | 0.105138 | FALSE |
| 64 | 7 | TC01001188.hg.1 | ENSG00000143369; | 0.0125953 | 0.1086521 | FALSE |
| 24 | 4 | TC01003042.hg.1 | ENSG00000092607; | 0.013482 | 0.114392 | FALSE |
| 165 | 13 | TC02000230.hg.1 | ENSG00000150938; | 0.0135522 | 0.114392 | FALSE |
| 5 | 2 | TC10000986.hg.1 | ENSG00000151632; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC02002808.hg.1 | ENSG00000116106; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC05001289.hg.1 | ENSG00000113594; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC02000466.hg.1 | ENSG00000159399; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC01000972.hg.1 | ENSG00000064886; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC17000220.hg.1 | ENSG00000108448; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC01003497.hg.1 | ENSG00000117479; | 0.0142839 | 0.1150034 | FALSE |
| 5 | 2 | TC01003497.hg.1 | ENSG00000117479; | 0.0142839 | 0.1150034 | FALSE |
| 25 | 4 | TC02000937.hg.1 | ENSG00000123610; | 0.0155617 | 0.1187553 | FALSE |
| 67 | 7 | TC03000214.hg.1 | ENSG00000168036; | 0.0159512 | 0.1187553 | FALSE |
| 14 | 3 | TC01003042.hg.1 | ENSG00000092607; | 0.0159592 | 0.1187553 | FALSE |
| 14 | 3 | TC09000191.hg.1 | ENSG00000107159; | 0.0159592 | 0.1187553 | FALSE |
| 321 | 21 | TC01003042.hg.1 | ENSG00000092607; | 0.0161114 | 0.1187553 | FALSE |
| 321 | 21 | TC01003042.hg.1 | ENSG00000092607; | 0.0161114 | 0.1187553 | FALSE |
| 303 | 20 | TC01000394.hg.1 | ENSG00000159023; | 0.0170092 | 0.1236319 | FALSE |
| 39 | 5 | TC06001772.hg.1 | ENSG00000146233; | 0.0177004 | 0.1274756 | FALSE |
| 15 | 3 | TC04000274.hg.1 | ENSG00000145246; | 0.019376 | 0.1371023 | FALSE |
| 15 | 3 | TC01001805.hg.1 | ENSG00000092969; | 0.019376 | 0.1371023 | FALSE |
| 70 | 7 | TC01000643.hg.1 | ENSG00000116157; | 0.0198964 | 0.1371023 | FALSE |
| 989 | 52 | TC01000685.hg.1 | ENSG00000162409; | 0.0200008 | 0.1371023 | FALSE |
| 27 | 4 | TC03000214.hg.1 | ENSG00000168036; | 0.0202988 | 0.1371023 | FALSE |

| | | | | | | |
|------|-----|-----------------|------------------|-----------|-----------|-------|
| 27 | 4 | TC01001607.hg.1 | ENSG00000116711; | 0.0202988 | 0.1371023 | FALSE |
| 55 | 6 | TC03001071.hg.1 | ENSG00000114315; | 0.0205079 | 0.1371023 | FALSE |
| 6 | 2 | TC05001617.hg.1 | ENSG00000164307; | 0.020871 | 0.1371023 | FALSE |
| 6 | 2 | TC07001559.hg.1 | ENSG00000075223; | 0.020871 | 0.1371023 | FALSE |
| 6 | 2 | TC10001398.hg.1 | ENSG00000122884; | 0.020871 | 0.1371023 | FALSE |
| 6 | 2 | TC01002954.hg.1 | ENSG00000134243; | 0.020871 | 0.1371023 | FALSE |
| 6 | 2 | TC04000408.hg.1 | ENSG00000169429; | 0.020871 | 0.1371023 | FALSE |
| 6 | 2 | TC06002036.hg.1 | ENSG00000249853; | 0.020871 | 0.1371023 | FALSE |
| 41 | 5 | TC07001883.hg.1 | ENSG00000085662; | 0.0216148 | 0.1379482 | FALSE |
| 88 | 8 | TC02000230.hg.1 | ENSG00000150938; | 0.0224193 | 0.1419284 | FALSE |
| 177 | 13 | TC01003745.hg.1 | ENSG00000163545; | 0.0228966 | 0.1437444 | FALSE |
| 16 | 3 | TC06001772.hg.1 | ENSG00000146233; | 0.0231639 | 0.1437444 | FALSE |
| 16 | 3 | TC02001628.hg.1 | ENSG00000084674; | 0.0231639 | 0.1437444 | FALSE |
| 106 | 9 | TC02001750.hg.1 | ENSG00000138061; | 0.0238561 | 0.1463053 | FALSE |
| 276 | 18 | TC01001090.hg.1 | ENSG00000117289; | 0.0252912 | 0.1539041 | FALSE |
| 17 | 3 | TC01002669.hg.1 | ENSG00000157193; | 0.0273232 | 0.1619689 | FALSE |
| 59 | 6 | TC02000466.hg.1 | ENSG00000159399; | 0.0279771 | 0.1619689 | FALSE |
| 7 | 2 | TC01000728.hg.1 | ENSG00000162433; | 0.0284653 | 0.1619689 | FALSE |
| 7 | 2 | TC06001015.hg.1 | ENSG00000171408; | 0.0284653 | 0.1619689 | FALSE |
| 7 | 2 | TC01000972.hg.1 | ENSG00000064886; | 0.0284653 | 0.1619689 | FALSE |
| 7 | 2 | TC10000022.hg.1 | ENSG00000067057; | 0.0284653 | 0.1619689 | FALSE |
| 7 | 2 | TC03002106.hg.1 | ENSG00000090530; | 0.0284653 | 0.1619689 | FALSE |
| 7 | 2 | TC09000560.hg.1 | ENSG00000148154; | 0.0284653 | 0.1619689 | FALSE |
| 44 | 5 | TC03002106.hg.1 | ENSG00000090530; | 0.0284735 | 0.1619689 | FALSE |
| 30 | 4 | TC09000222.hg.1 | ENSG00000137124; | 0.0289083 | 0.1632589 | FALSE |
| 2670 | 123 | TC01000394.hg.1 | ENSG00000159023; | 0.0307618 | 0.1724858 | FALSE |
| 45 | 5 | TC04000408.hg.1 | ENSG00000169429; | 0.0310326 | 0.17277 | FALSE |
| 18 | 3 | TC02000286.hg.1 | ENSG00000171150; | 0.0318523 | 0.1754671 | FALSE |
| 18 | 3 | TC01003497.hg.1 | ENSG00000117479; | 0.0318523 | 0.1754671 | FALSE |
| 31 | 4 | TC06000968.hg.1 | ENSG00000146374; | 0.0321906 | 0.1754836 | FALSE |
| 1477 | 72 | TC01000723.hg.1 | ENSG00000185483; | 0.0330889 | 0.1791362 | FALSE |
| 168 | 12 | TC01003497.hg.1 | ENSG00000117479; | 0.0338294 | 0.1818911 | FALSE |
| 131 | 10 | TC01003638.hg.1 | ENSG00000073756; | 0.0340891 | 0.1820405 | FALSE |
| 266 | 17 | TC01000783.hg.1 | ENSG00000117069; | 0.0343756 | 0.1823302 | FALSE |
| 328 | 20 | TC01003042.hg.1 | ENSG00000092607; | 0.0355465 | 0.1868235 | FALSE |
| 79 | 7 | TC01003042.hg.1 | ENSG00000092607; | 0.0356988 | 0.1868235 | FALSE |
| 8 | 2 | TC04000313.hg.1 | ENSG00000157404; | 0.0369777 | 0.1916006 | FALSE |
| 8 | 2 | TC06000608.hg.1 | ENSG00000112715; | 0.0369777 | 0.1916006 | FALSE |
| 153 | 11 | TC01003042.hg.1 | ENSG00000092607; | 0.0394259 | 0.2022834 | FALSE |
| 192 | 13 | TC02000230.hg.1 | ENSG00000150938; | 0.040444 | 0.2061593 | FALSE |
| 99 | 8 | TC04000699.hg.1 | ENSG00000109458; | 0.0412761 | 0.2090433 | FALSE |
| 20 | 3 | TC03002106.hg.1 | ENSG00000090530; | 0.0420045 | 0.2113689 | FALSE |
| 49 | 5 | TC09002910.hg.1 | ENSG00000107317; | 0.0426805 | 0.2134023 | FALSE |
| 50 | 5 | TC02002292.hg.1 | ENSG00000136720; | 0.0459514 | 0.2265385 | FALSE |
| 9 | 2 | TC06001246.hg.1 | ENSG00000124491; | 0.0463243 | 0.2265385 | FALSE |
| 9 | 2 | TC02002808.hg.1 | ENSG00000116106; | 0.0463243 | 0.2265385 | FALSE |
| 9 | 2 | TC11000707.hg.1 | ENSG00000162337; | 0.0463243 | 0.2265385 | FALSE |
| 9 | 2 | TC09000560.hg.1 | ENSG00000148154; | 0.0463243 | 0.2265385 | FALSE |
| 177 | 12 | TC01001907.hg.1 | ENSG00000143641; | 0.0472984 | 0.2265385 | FALSE |
| 35 | 4 | TC01001907.hg.1 | ENSG00000143641; | 0.0474197 | 0.2265385 | FALSE |
| 21 | 3 | TC01000783.hg.1 | ENSG00000117069; | 0.0476164 | 0.2265385 | FALSE |
| 140 | 10 | TC01003638.hg.1 | ENSG00000073756; | 0.0498647 | 0.2358061 | FALSE |
| 557 | 30 | TC01000394.hg.1 | ENSG00000159023; | 0.0512914 | 0.2411002 | FALSE |
| 52 | 5 | TC04000408.hg.1 | ENSG00000169429; | 0.0529293 | 0.2473187 | FALSE |
| 37 | 4 | TC01000789.hg.1 | ENSG00000162614; | 0.0562939 | 0.2582786 | FALSE |
| 10 | 2 | TC02001963.hg.1 | ENSG00000163235; | 0.0564265 | 0.2582786 | FALSE |
| 10 | 2 | TC10000986.hg.1 | ENSG00000151632; | 0.0564265 | 0.2582786 | FALSE |
| 10 | 2 | TC01003129.hg.1 | ENSG00000143140; | 0.0564265 | 0.2582786 | FALSE |

| | | | | | | |
|------|----|-----------------|------------------|-----------|-----------|-------|
| 10 | 2 | TC0Y000052.hg.1 | ENSG00000114374; | 0.0564265 | 0.2582786 | FALSE |
| 125 | 9 | TC01003042.hg.1 | ENSG00000092607; | 0.0583826 | 0.2633928 | FALSE |
| 164 | 11 | TC02001750.hg.1 | ENSG00000138061; | 0.0594795 | 0.2662943 | FALSE |
| 23 | 3 | TC06001015.hg.1 | ENSG00000171408; | 0.0598738 | 0.2662943 | FALSE |
| 23 | 3 | TC0Y000351.hg.1 | ENSG00000129824; | 0.0598738 | 0.2662943 | FALSE |
| 90 | 7 | TC01001805.hg.1 | ENSG00000092969; | 0.0640957 | 0.2826694 | FALSE |
| 24 | 3 | TC01001805.hg.1 | ENSG00000092969; | 0.0665012 | 0.2875219 | FALSE |
| 24 | 3 | TC06001015.hg.1 | ENSG00000171408; | 0.0665012 | 0.2875219 | FALSE |
| 24 | 3 | TC01001607.hg.1 | ENSG00000116711; | 0.0665012 | 0.2875219 | FALSE |
| 24 | 3 | TC01003887.hg.1 | ENSG00000143815; | 0.0665012 | 0.2875219 | FALSE |
| 11 | 2 | TC10000986.hg.1 | ENSG00000151632; | 0.0672105 | 0.2875219 | FALSE |
| 11 | 2 | TC03002008.hg.1 | ENSG00000144959; | 0.0672105 | 0.2875219 | FALSE |
| 74 | 6 | TC01000904.hg.1 | ENSG00000162692; | 0.0708724 | 0.2997439 | FALSE |
| 40 | 4 | TC02002624.hg.1 | ENSG00000115415; | 0.0711515 | 0.2997439 | FALSE |
| 111 | 8 | TC04000699.hg.1 | ENSG00000109458; | 0.071404 | 0.2997439 | FALSE |
| 25 | 3 | TC02001031.hg.1 | ENSG00000152256; | 0.0734475 | 0.3058689 | FALSE |
| 25 | 3 | TC02002808.hg.1 | ENSG00000116106; | 0.0734475 | 0.3058689 | FALSE |
| 75 | 6 | TC04000101.hg.1 | ENSG00000249811; | 0.074609 | 0.3074438 | FALSE |
| 75 | 6 | TC02001437.hg.1 | ENSG00000144476; | 0.074609 | 0.3074438 | FALSE |
| 41 | 4 | TC02002624.hg.1 | ENSG00000115415; | 0.0765068 | 0.3103766 | FALSE |
| 41 | 4 | TC01000643.hg.1 | ENSG00000116157; | 0.0765068 | 0.3103766 | FALSE |
| 41 | 4 | TC01000643.hg.1 | ENSG00000116157; | 0.0765068 | 0.3103766 | FALSE |
| 41 | 4 | TC03000214.hg.1 | ENSG00000168036; | 0.0765068 | 0.3103766 | FALSE |
| 12 | 2 | TC04001487.hg.1 | ENSG00000180801; | 0.0786073 | 0.3116503 | FALSE |
| 12 | 2 | TC03001169.hg.1 | ENSG00000157150; | 0.0786073 | 0.3116503 | FALSE |
| 12 | 2 | TC03001169.hg.1 | ENSG00000157150; | 0.0786073 | 0.3116503 | FALSE |
| 12 | 2 | TC04000432.hg.1 | ENSG00000156234; | 0.0786073 | 0.3116503 | FALSE |
| 12 | 2 | TC03001169.hg.1 | ENSG00000157150; | 0.0786073 | 0.3116503 | FALSE |
| 449 | 24 | TC01000734.hg.1 | ENSG00000118473; | 0.0801141 | 0.3128834 | FALSE |
| 26 | 3 | TC08000845.hg.1 | ENSG00000187786; | 0.0807016 | 0.3136178 | FALSE |
| 59 | 5 | TC01003042.hg.1 | ENSG00000092607; | 0.0819183 | 0.314992 | FALSE |
| 42 | 4 | TC01001805.hg.1 | ENSG00000092969; | 0.0820584 | 0.314992 | FALSE |
| 42 | 4 | TC04000699.hg.1 | ENSG00000109458; | 0.0820584 | 0.314992 | FALSE |
| 78 | 6 | TC02000281.hg.1 | ENSG00000116016; | 0.0864771 | 0.3287387 | FALSE |
| 78 | 6 | TC02001437.hg.1 | ENSG00000144476; | 0.0864771 | 0.3287387 | FALSE |
| 43 | 4 | TC09000191.hg.1 | ENSG00000107159; | 0.0878026 | 0.3288826 | FALSE |
| 27 | 3 | TC02002624.hg.1 | ENSG00000115415; | 0.088252 | 0.3288826 | FALSE |
| 27 | 3 | TC01002578.hg.1 | ENSG00000117394; | 0.088252 | 0.3288826 | FALSE |
| 136 | 9 | TC01000394.hg.1 | ENSG00000159023; | 0.0884003 | 0.3288826 | FALSE |
| 13 | 2 | TC01001607.hg.1 | ENSG00000116711; | 0.0905521 | 0.333725 | FALSE |
| 13 | 2 | TC01003129.hg.1 | ENSG00000143140; | 0.0905521 | 0.333725 | FALSE |
| 13 | 2 | TC12002155.hg.1 | ENSG00000176915; | 0.0905521 | 0.333725 | FALSE |
| 28 | 3 | TC04000274.hg.1 | ENSG00000145246; | 0.0960865 | 0.3505876 | FALSE |
| 62 | 5 | TC02002292.hg.1 | ENSG00000136720; | 0.0964674 | 0.3505876 | FALSE |
| 81 | 6 | TC02000620.hg.1 | ENSG00000115594; | 0.0993193 | 0.3592885 | FALSE |
| 45 | 4 | TC01000904.hg.1 | ENSG00000162692; | 0.0998529 | 0.3595621 | FALSE |
| 287 | 16 | TC01000685.hg.1 | ENSG00000162409; | 0.1027814 | 0.3658039 | FALSE |
| 14 | 2 | TC10000986.hg.1 | ENSG00000151632; | 0.1029843 | 0.3658039 | FALSE |
| 14 | 2 | TC04001001.hg.1 | ENSG00000074211; | 0.1029843 | 0.3658039 | FALSE |
| 14 | 2 | TC04000432.hg.1 | ENSG00000156234; | 0.1029843 | 0.3658039 | FALSE |
| 1559 | 71 | TC01000100.hg.1 | ENSG00000049246; | 0.1066324 | 0.3745255 | FALSE |
| 1559 | 71 | TC01000100.hg.1 | ENSG00000049246; | 0.1066324 | 0.3745255 | FALSE |
| 103 | 7 | TC02000762.hg.1 | ENSG00000163083; | 0.1114107 | 0.3886994 | FALSE |
| 30 | 3 | TC03001071.hg.1 | ENSG00000114315; | 0.1125575 | 0.3894349 | FALSE |
| 30 | 3 | TC02001100.hg.1 | ENSG00000138448; | 0.1125575 | 0.3894349 | FALSE |
| 84 | 6 | TC01001607.hg.1 | ENSG00000116711; | 0.1131098 | 0.3894349 | FALSE |
| 206 | 12 | TC01001603.hg.1 | ENSG00000116690; | 0.113991 | 0.3907552 | FALSE |
| 15 | 2 | TC01001603.hg.1 | ENSG00000116690; | 0.1158471 | 0.3928293 | FALSE |

| | | | | | | |
|-----|----|-----------------|------------------|-----------|-----------|-------|
| 15 | 2 | TC14001141.hg.1 | ENSG00000197930; | 0.1158471 | 0.3928293 | FALSE |
| 15 | 2 | TC14001141.hg.1 | ENSG00000197930; | 0.1158471 | 0.3928293 | FALSE |
| 15 | 2 | TC01001603.hg.1 | ENSG00000116690; | 0.1158471 | 0.3928293 | FALSE |
| 66 | 5 | TC04000274.hg.1 | ENSG00000145246; | 0.1177444 | 0.3949972 | FALSE |
| 48 | 4 | TC09002910.hg.1 | ENSG00000107317; | 0.1192653 | 0.3983967 | FALSE |
| 67 | 5 | TC02002714.hg.1 | ENSG00000163251; | 0.1233839 | 0.4104085 | FALSE |
| 16 | 2 | TC02000219.hg.1 | ENSG00000049323; | 0.1290876 | 0.4217318 | FALSE |
| 16 | 2 | TC05000243.hg.1 | ENSG00000095015; | 0.1290876 | 0.4217318 | FALSE |
| 16 | 2 | TC02000219.hg.1 | ENSG00000049323; | 0.1290876 | 0.4217318 | FALSE |
| 16 | 2 | TC14001141.hg.1 | ENSG00000197930; | 0.1290876 | 0.4217318 | FALSE |
| 16 | 2 | TC05001933.hg.1 | ENSG00000113721; | 0.1290876 | 0.4217318 | FALSE |
| 32 | 3 | TC03001071.hg.1 | ENSG00000114315; | 0.1300116 | 0.4217318 | FALSE |
| 33 | 3 | TC04000432.hg.1 | ENSG00000156234; | 0.1390743 | 0.4483505 | FALSE |
| 33 | 3 | TC01001188.hg.1 | ENSG00000143369; | 0.1390743 | 0.4483505 | FALSE |
| 17 | 2 | TC08000149.hg.1 | ENSG00000175445; | 0.1426561 | 0.4549289 | FALSE |
| 17 | 2 | TC02002808.hg.1 | ENSG00000116106; | 0.1426561 | 0.4549289 | FALSE |
| 17 | 2 | TC04000432.hg.1 | ENSG00000156234; | 0.1426561 | 0.4549289 | FALSE |
| 415 | 21 | TC01003042.hg.1 | ENSG00000092607; | 0.1437228 | 0.4549289 | FALSE |
| 52 | 4 | TC09000015.hg.1 | ENSG00000147852; | 0.1474302 | 0.46479 | FALSE |
| 350 | 18 | TC01002166.hg.1 | ENSG00000116285; | 0.1501968 | 0.4716178 | FALSE |
| 72 | 5 | TC01003497.hg.1 | ENSG00000117479; | 0.1533672 | 0.4796545 | FALSE |
| 18 | 2 | TC07001562.hg.1 | ENSG00000019991; | 0.1565066 | 0.4832773 | FALSE |
| 18 | 2 | TC01002578.hg.1 | ENSG00000117394; | 0.1565066 | 0.4832773 | FALSE |
| 286 | 15 | TC01000904.hg.1 | ENSG00000162692; | 0.1588692 | 0.4832773 | FALSE |
| 401 | 20 | TC01003042.hg.1 | ENSG00000092607; | 0.1656003 | 0.4832773 | FALSE |
| 36 | 3 | TC03000214.hg.1 | ENSG00000168036; | 0.1674458 | 0.4832773 | FALSE |
| 115 | 7 | TC01003497.hg.1 | ENSG00000117479; | 0.1676473 | 0.4832773 | FALSE |
| 55 | 4 | TC04000699.hg.1 | ENSG00000109458; | 0.1700687 | 0.4832773 | FALSE |
| 55 | 4 | TC04000253.hg.1 | ENSG00000154277; | 0.1700687 | 0.4832773 | FALSE |
| 19 | 2 | TC01000728.hg.1 | ENSG00000162433; | 0.1705959 | 0.4832773 | FALSE |
| 19 | 2 | TC04001084.hg.1 | ENSG00000109819; | 0.1705959 | 0.4832773 | FALSE |
| 137 | 8 | TC01001805.hg.1 | ENSG00000092969; | 0.1725285 | 0.4832773 | FALSE |
| 382 | 19 | TC01003042.hg.1 | ENSG00000092607; | 0.1759922 | 0.4832773 | FALSE |
| 56 | 4 | TC09000191.hg.1 | ENSG00000107159; | 0.1778716 | 0.4832773 | FALSE |
| 5 | 1 | TC18000097.hg.1 | ENSG00000101773 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC16001281.hg.1 | ENSG00000183196 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC02001100.hg.1 | ENSG00000138448 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC17001250.hg.1 | ENSG00000108602 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC02000466.hg.1 | ENSG00000159399 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC10001663.hg.1 | ENSG00000119927 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC02000466.hg.1 | ENSG00000159399 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC22000259.hg.1 | ENSG00000100292 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC12000099.hg.1 | ENSG00000111674 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC01000685.hg.1 | ENSG00000162409 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC10000811.hg.1 | ENSG00000150594 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC10001711.hg.1 | ENSG00000066468 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC0X000207.hg.1 | ENSG00000189221 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC06002036.hg.1 | ENSG00000249853 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC01003497.hg.1 | ENSG00000117479 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC02000466.hg.1 | ENSG00000159399 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC12002122.hg.1 | ENSG00000139370 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC05001110.hg.1 | ENSG00000153395 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC02000466.hg.1 | ENSG00000159399 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC04000253.hg.1 | ENSG00000154277 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC03001362.hg.1 | ENSG00000160808 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC0Y000185.hg.1 | ENSG00000012817 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC03003359.hg.1 | ENSG00000172986 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC21000169.hg.1 | ENSG00000157557 | 0.1818873 | 0.4832773 | FALSE |

| | | | | | | |
|-----|----|-----------------|------------------|-----------|-----------|-------|
| 5 | 1 | TC03003359.hg.1 | ENSG00000172986 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC05001657.hg.1 | ENSG00000184349 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC01002954.hg.1 | ENSG00000134243 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC0X000943.hg.1 | ENSG00000198947 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC02000082.hg.1 | ENSG00000071575 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC12000621.hg.1 | ENSG00000135643 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC01000139.hg.1 | ENSG00000171819 | 0.1818873 | 0.4832773 | FALSE |
| 5 | 1 | TC06001332.hg.1 | ENSG00000168405 | 0.1818873 | 0.4832773 | FALSE |
| 97 | 6 | TC02002480.hg.1 | ENSG00000078098; | 0.182845 | 0.4832773 | FALSE |
| 20 | 2 | TC01002284.hg.1 | ENSG00000117122; | 0.1848838 | 0.4853974 | FALSE |
| 20 | 2 | TC02001437.hg.1 | ENSG00000144476; | 0.1848838 | 0.4853974 | FALSE |
| 20 | 2 | TC08001659.hg.1 | ENSG00000104419; | 0.1848838 | 0.4853974 | FALSE |
| 98 | 6 | TC02002624.hg.1 | ENSG00000115415; | 0.1888052 | 0.492399 | FALSE |
| 141 | 8 | TC01001805.hg.1 | ENSG00000092969; | 0.1920339 | 0.499161 | FALSE |
| 78 | 5 | TC03003381.hg.1 | ENSG00000225697; | 0.1928574 | 0.4996471 | FALSE |
| 39 | 3 | TC06001027.hg.1 | ENSG00000118503; | 0.1973158 | 0.5028079 | FALSE |
| 208 | 11 | TC02000762.hg.1 | ENSG00000163083; | 0.1978293 | 0.5028079 | FALSE |
| 21 | 2 | TC09000015.hg.1 | ENSG00000147852; | 0.199333 | 0.5028079 | FALSE |
| 21 | 2 | TC09000015.hg.1 | ENSG00000147852; | 0.199333 | 0.5028079 | FALSE |
| 21 | 2 | TC01003497.hg.1 | ENSG00000117479; | 0.199333 | 0.5028079 | FALSE |
| 80 | 5 | TC02001628.hg.1 | ENSG00000084674; | 0.206752 | 0.5028079 | FALSE |
| 40 | 3 | TC13001719.hg.1 | ENSG00000150907; | 0.2075454 | 0.5028079 | FALSE |
| 102 | 6 | TC01001607.hg.1 | ENSG00000116711; | 0.2133629 | 0.5028079 | FALSE |
| 102 | 6 | TC01000734.hg.1 | ENSG00000118473; | 0.2133629 | 0.5028079 | FALSE |
| 81 | 5 | TC03003381.hg.1 | ENSG00000225697; | 0.21382 | 0.5028079 | FALSE |
| 22 | 2 | TC12002122.hg.1 | ENSG00000139370; | 0.2139088 | 0.5028079 | FALSE |
| 22 | 2 | TC06001246.hg.1 | ENSG00000124491; | 0.2139088 | 0.5028079 | FALSE |
| 6 | 1 | TC17001462.hg.1 | ENSG00000131747 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC19000377.hg.1 | ENSG00000160161 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC16001225.hg.1 | ENSG00000181019 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC03001884.hg.1 | ENSG00000047457 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC10000053.hg.1 | ENSG00000170525 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC14001124.hg.1 | ENSG00000100504 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC15000622.hg.1 | ENSG00000166949 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC01001805.hg.1 | ENSG00000092969 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC22000702.hg.1 | ENSG00000128335 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC21000506.hg.1 | ENSG00000142178 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC05000054.hg.1 | ENSG00000078295 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC17000124.hg.1 | ENSG00000179593 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC11002178.hg.1 | ENSG00000086991 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC02000416.hg.1 | ENSG00000116005 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC03001884.hg.1 | ENSG00000047457 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC15002776.hg.1 | ENSG00000067225 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC14002310.hg.1 | ENSG00000168398 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC02001100.hg.1 | ENSG00000138448 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC01002616.hg.1 | ENSG00000117461 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC12001837.hg.1 | ENSG00000074527 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC12001324.hg.1 | ENSG00000123095 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC02000996.hg.1 | ENSG00000172292 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC21000138.hg.1 | ENSG00000159212 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC01003887.hg.1 | ENSG00000143815 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC14000353.hg.1 | ENSG00000165617 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC08002613.hg.1 | ENSG00000134013 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC0X000038.hg.1 | ENSG00000073464 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC15001761.hg.1 | ENSG00000103942 | 0.2140906 | 0.5028079 | FALSE |
| 6 | 1 | TC17001590.hg.1 | ENSG00000131094 | 0.2140906 | 0.5028079 | FALSE |

| | | | | | | |
|------|----|-----------------|-----------------|-----------|-----------|-------|
| 6 | 1 | TC02001139.hg.1 | ENSG00000196950 | 0.2140906 | 0.5028079 | FALSE |
| 147 | 8 | TC01003211.hg.1 | ENSG00000143387 | 0.2229008 | 0.5028079 | FALSE |
| 83 | 5 | TC03003381.hg.1 | ENSG00000225697 | 0.2281783 | 0.5126696 | FALSE |
| 23 | 2 | TC02001437.hg.1 | ENSG00000144476 | 0.2285788 | 0.5126696 | FALSE |
| 1483 | 64 | TC01000685.hg.1 | ENSG00000162409 | 0.2330876 | 0.5212928 | FALSE |
| 43 | 3 | TC01003497.hg.1 | ENSG00000117479 | 0.2388794 | 0.5268378 | FALSE |
| 106 | 6 | TC04000101.hg.1 | ENSG00000249811 | 0.2389483 | 0.5268378 | FALSE |
| 1487 | 64 | TC01000685.hg.1 | ENSG00000162409 | 0.2399816 | 0.5268378 | FALSE |
| 24 | 2 | TC02001437.hg.1 | ENSG00000144476 | 0.2433131 | 0.5268378 | FALSE |
| 24 | 2 | TC02001437.hg.1 | ENSG00000144476 | 0.2433131 | 0.5268378 | FALSE |
| 24 | 2 | TC04000432.hg.1 | ENSG00000156234 | 0.2433131 | 0.5268378 | FALSE |
| 7 | 1 | TC01003791.hg.1 | ENSG00000143473 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC02000620.hg.1 | ENSG00000115594 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC05001151.hg.1 | ENSG00000112902 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC14001124.hg.1 | ENSG00000100504 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC02001437.hg.1 | ENSG00000144476 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC14001141.hg.1 | ENSG00000197930 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC17001353.hg.1 | ENSG00000176658 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC14002310.hg.1 | ENSG00000168398 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC10000811.hg.1 | ENSG00000150594 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC03000214.hg.1 | ENSG00000168036 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC01001607.hg.1 | ENSG00000116711 | 0.2450281 | 0.5268378 | FALSE |
| 7 | 1 | TC17000819.hg.1 | ENSG00000125398 | 0.2450281 | 0.5268378 | FALSE |
| 429 | 20 | TC01000685.hg.1 | ENSG00000162409 | 0.2483185 | 0.5268378 | FALSE |
| 44 | 3 | TC06001027.hg.1 | ENSG00000118503 | 0.2494996 | 0.527917 | FALSE |
| 314 | 15 | TC01002166.hg.1 | ENSG00000116285 | 0.2563396 | 0.5340341 | FALSE |
| 176 | 9 | TC01003497.hg.1 | ENSG00000117479 | 0.2576671 | 0.5340341 | FALSE |
| 25 | 2 | TC13000147.hg.1 | ENSG00000102760 | 0.258084 | 0.5340341 | FALSE |
| 25 | 2 | TC01001188.hg.1 | ENSG00000143369 | 0.258084 | 0.5340341 | FALSE |
| 45 | 3 | TC05001110.hg.1 | ENSG00000153395 | 0.2601887 | 0.5340341 | FALSE |
| 66 | 4 | TC04000253.hg.1 | ENSG00000154277 | 0.2613724 | 0.5340341 | FALSE |
| 88 | 5 | TC06001015.hg.1 | ENSG00000171408 | 0.2651945 | 0.5340341 | FALSE |
| 387 | 18 | TC02000082.hg.1 | ENSG00000071575 | 0.2657491 | 0.5340341 | FALSE |
| 155 | 8 | TC02001750.hg.1 | ENSG00000138061 | 0.2666037 | 0.5340341 | FALSE |
| 133 | 7 | TC07001883.hg.1 | ENSG00000085662 | 0.2698227 | 0.5340341 | FALSE |
| 67 | 4 | TC01000789.hg.1 | ENSG00000162614 | 0.2701336 | 0.5340341 | FALSE |
| 46 | 3 | TC10000986.hg.1 | ENSG00000151632 | 0.2709356 | 0.5340341 | FALSE |
| 26 | 2 | TC05000619.hg.1 | ENSG00000198108 | 0.2728659 | 0.5340341 | FALSE |
| 26 | 2 | TC03001362.hg.1 | ENSG00000160808 | 0.2728659 | 0.5340341 | FALSE |
| 1285 | 55 | TC01000723.hg.1 | ENSG00000185483 | 0.2740541 | 0.5340341 | FALSE |
| 8 | 1 | TC02002624.hg.1 | ENSG00000115415 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC11002175.hg.1 | ENSG00000109861 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC22001467.hg.1 | ENSG00000128394 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC01003791.hg.1 | ENSG00000143473 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC07001897.hg.1 | ENSG00000157680 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC06000779.hg.1 | ENSG00000135318 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC03003381.hg.1 | ENSG00000225697 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC11002178.hg.1 | ENSG00000086991 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC17001301.hg.1 | ENSG00000109107 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC01000785.hg.1 | ENSG00000154027 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC15000226.hg.1 | ENSG00000166923 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC10000350.hg.1 | ENSG00000107984 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC10000350.hg.1 | ENSG00000107984 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC01003266.hg.1 | ENSG00000196154 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC03000214.hg.1 | ENSG00000168036 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC11000198.hg.1 | ENSG00000133816 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC09001058.hg.1 | ENSG00000198467 | 0.2747496 | 0.5340341 | FALSE |
| 8 | 1 | TC03001888.hg.1 | ENSG00000169908 | 0.2747496 | 0.5340341 | FALSE |

| | | | | | | |
|------|----|-----------------|------------------|-----------|-----------|-------|
| 677 | 30 | TC01002578.hg.1 | ENSG00000117394; | 0.2755208 | 0.5340341 | FALSE |
| 47 | 3 | TC12001429.hg.1 | ENSG00000139209; | 0.2817296 | 0.5447235 | FALSE |
| 158 | 8 | TC02000245.hg.1 | ENSG00000143891; | 0.2836068 | 0.5470058 | FALSE |
| 1192 | 51 | TC01000723.hg.1 | ENSG00000185483; | 0.2843646 | 0.547123 | FALSE |
| 27 | 2 | TC02001963.hg.1 | ENSG00000163235; | 0.287635 | 0.5513882 | FALSE |
| 27 | 2 | TC21000241.hg.1 | ENSG00000197381; | 0.287635 | 0.5513882 | FALSE |
| 160 | 8 | TC02002624.hg.1 | ENSG00000115415; | 0.2950958 | 0.5552063 | FALSE |
| 70 | 4 | TC01003211.hg.1 | ENSG00000143387; | 0.296697 | 0.5552063 | FALSE |
| 70 | 4 | TC03002146.hg.1 | ENSG00000189058; | 0.296697 | 0.5552063 | FALSE |
| 9 | 1 | TC21000241.hg.1 | ENSG00000197381 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC19000377.hg.1 | ENSG00000160161 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC10000811.hg.1 | ENSG00000150594 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC09001515.hg.1 | ENSG00000181634 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC01003887.hg.1 | ENSG00000143815 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC10000874.hg.1 | ENSG00000203805 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC14001364.hg.1 | ENSG00000211448 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC02000245.hg.1 | ENSG00000143891 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC01000394.hg.1 | ENSG00000159023 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC07001552.hg.1 | ENSG00000187391 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC07001627.hg.1 | ENSG00000105880 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC07000852.hg.1 | ENSG00000181072 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC21000443.hg.1 | ENSG00000157542 | 0.3033028 | 0.5552063 | FALSE |
| 9 | 1 | TC22000620.hg.1 | ENSG00000169184 | 0.3033028 | 0.5552063 | FALSE |
| 49 | 3 | TC02000281.hg.1 | ENSG00000116016; | 0.3034185 | 0.5552063 | FALSE |
| 29 | 2 | TC02002624.hg.1 | ENSG00000115415; | 0.3170493 | 0.5754815 | FALSE |
| 29 | 2 | TC05001617.hg.1 | ENSG00000164307; | 0.3170493 | 0.5754815 | FALSE |
| 29 | 2 | TC09002910.hg.1 | ENSG00000107317; | 0.3170493 | 0.5754815 | FALSE |
| 29 | 2 | TC09002910.hg.1 | ENSG00000107317; | 0.3170493 | 0.5754815 | FALSE |
| 29 | 2 | TC10000986.hg.1 | ENSG00000151632; | 0.3170493 | 0.5754815 | FALSE |
| 141 | 7 | TC01001090.hg.1 | ENSG00000117289; | 0.3197865 | 0.5754815 | FALSE |
| 141 | 7 | TC01001090.hg.1 | ENSG00000117289; | 0.3197865 | 0.5754815 | FALSE |
| 1456 | 61 | TC01000685.hg.1 | ENSG00000162409; | 0.3203636 | 0.5754815 | FALSE |
| 451 | 20 | TC01003497.hg.1 | ENSG00000117479; | 0.3229983 | 0.5769462 | FALSE |
| 51 | 3 | TC0X000034.hg.1 | ENSG00000146950; | 0.325177 | 0.5769462 | FALSE |
| 51 | 3 | TC02000416.hg.1 | ENSG00000116005; | 0.325177 | 0.5769462 | FALSE |
| 51 | 3 | TC03000214.hg.1 | ENSG00000168036; | 0.325177 | 0.5769462 | FALSE |
| 119 | 6 | TC07001883.hg.1 | ENSG00000085662; | 0.3271924 | 0.5769462 | FALSE |
| 10 | 1 | TC19000677.hg.1 | ENSG00000134830 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC02002480.hg.1 | ENSG00000078098 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC06000779.hg.1 | ENSG00000135318 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC14000951.hg.1 | ENSG00000092068 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC17000241.hg.1 | ENSG00000142494 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC01002616.hg.1 | ENSG00000117461 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC08000203.hg.1 | ENSG00000092964 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC10000053.hg.1 | ENSG00000170525 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC15002776.hg.1 | ENSG00000067225 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC07001552.hg.1 | ENSG00000187391 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC10000053.hg.1 | ENSG00000170525 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC07000768.hg.1 | ENSG00000174697 | 0.3307335 | 0.5769462 | FALSE |
| 10 | 1 | TC13000364.hg.1 | ENSG00000198542 | 0.3307335 | 0.5769462 | FALSE |
| 407 | 18 | TC01003129.hg.1 | ENSG00000143140; | 0.3390184 | 0.5810687 | FALSE |
| 31 | 2 | TC13000147.hg.1 | ENSG00000102760; | 0.3461722 | 0.5818245 | FALSE |
| 31 | 2 | TC02000286.hg.1 | ENSG00000171150; | 0.3461722 | 0.5818245 | FALSE |
| 31 | 2 | TC09000015.hg.1 | ENSG00000147852; | 0.3461722 | 0.5818245 | FALSE |
| 122 | 6 | TC01000785.hg.1 | ENSG00000154027; | 0.3482442 | 0.5818245 | FALSE |

| | | | | | | |
|------|----|-----------------|------------------|-----------|-----------|-------|
| 11 | 1 | TC05000054.hg.1 | ENSG00000078295 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC14000067.hg.1 | ENSG00000181784 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC20000621.hg.1 | ENSG00000101384 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC12001890.hg.1 | ENSG00000017427 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC17001902.hg.1 | ENSG00000161544 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC18000164.hg.1 | ENSG00000141469 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC03003381.hg.1 | ENSG00000225697 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC03001884.hg.1 | ENSG00000047457 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC01003791.hg.1 | ENSG00000143473 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC07001332.hg.1 | ENSG00000164708 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC07001630.hg.1 | ENSG00000070669 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC03000986.hg.1 | ENSG00000163872 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC0X000943.hg.1 | ENSG00000198947 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC10001517.hg.1 | ENSG00000148677 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC01002616.hg.1 | ENSG00000117461 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC18000435.hg.1 | ENSG00000134762 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC02001100.hg.1 | ENSG00000138448 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC04001169.hg.1 | ENSG00000145244 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC15000971.hg.1 | ENSG00000184254 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC06000087.hg.1 | ENSG00000078401 | 0.3570858 | 0.5818245 | FALSE |
| 11 | 1 | TC04000396.hg.1 | ENSG00000080493 | 0.3570858 | 0.5818245 | FALSE |
| 77 | 4 | TC02002624.hg.1 | ENSG00000115415; | 0.3595939 | 0.5818245 | FALSE |
| 32 | 2 | TC10000986.hg.1 | ENSG00000151632; | 0.3605829 | 0.5818245 | FALSE |
| 32 | 2 | TC21000241.hg.1 | ENSG00000197381; | 0.3605829 | 0.5818245 | FALSE |
| 560 | 24 | TC01003042.hg.1 | ENSG00000092607; | 0.3624767 | 0.5830824 | FALSE |
| 2304 | 94 | TC01000972.hg.1 | ENSG00000064886; | 0.3672768 | 0.5895957 | FALSE |
| 55 | 3 | TC02000281.hg.1 | ENSG00000116016; | 0.3686179 | 0.589939 | FALSE |
| 55 | 3 | TC01003887.hg.1 | ENSG00000143815; | 0.3686179 | 0.589939 | FALSE |
| 539 | 23 | TC01000394.hg.1 | ENSG00000159023; | 0.3744703 | 0.5963038 | FALSE |
| 33 | 2 | TC01000728.hg.1 | ENSG00000162433; | 0.3748738 | 0.5963038 | FALSE |
| 33 | 2 | TC12000601.hg.1 | ENSG00000127314; | 0.3748738 | 0.5963038 | FALSE |
| 79 | 4 | TC02002624.hg.1 | ENSG00000115415; | 0.3776116 | 0.5988386 | FALSE |
| 12 | 1 | TC03000131.hg.1 | ENSG00000077092 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC09000965.hg.1 | ENSG00000147883 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC01003497.hg.1 | ENSG00000117479 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC16001225.hg.1 | ENSG00000181019 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC07001552.hg.1 | ENSG00000187391 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC06002036.hg.1 | ENSG00000249853 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC01000685.hg.1 | ENSG00000162409 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC19000012.hg.1 | ENSG00000070404 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC21000506.hg.1 | ENSG00000142178 | 0.382402 | 0.5997713 | FALSE |
| 12 | 1 | TC10002938.hg.1 | ENSG00000148671 | 0.382402 | 0.5997713 | FALSE |
| 34 | 2 | TC01002166.hg.1 | ENSG00000116285; | 0.389032 | 0.6035377 | FALSE |
| 718 | 30 | TC01001607.hg.1 | ENSG00000116711; | 0.3934404 | 0.6091729 | FALSE |
| 695 | 29 | TC01000394.hg.1 | ENSG00000159023; | 0.3989891 | 0.6165481 | FALSE |
| 106 | 5 | TC03003381.hg.1 | ENSG00000225697; | 0.4053033 | 0.6193548 | FALSE |
| 106 | 5 | TC01000785.hg.1 | ENSG00000154027; | 0.4053033 | 0.6193548 | FALSE |
| 13 | 1 | TC03001362.hg.1 | ENSG00000160808 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC04001820.hg.1 | ENSG00000154556 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC02000891.hg.1 | ENSG00000150540 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC12000096.hg.1 | ENSG00000111669 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC03000208.hg.1 | ENSG00000168032 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC02001628.hg.1 | ENSG00000084674 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC11002162.hg.1 | ENSG00000137501 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC11002178.hg.1 | ENSG00000086991 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC01003497.hg.1 | ENSG00000117479 | 0.4067228 | 0.6193548 | FALSE |
| 13 | 1 | TC01002616.hg.1 | ENSG00000117461 | 0.4067228 | 0.6193548 | FALSE |

| | | | | | | |
|------|----|-----------------|------------------|-----------|-----------|-------|
| 84 | 4 | TC01000394.hg.1 | ENSG00000159023; | 0.4223643 | 0.6363093 | FALSE |
| 14 | 1 | TC05001617.hg.1 | ENSG00000164307 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC01000394.hg.1 | ENSG00000159023 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC02001628.hg.1 | ENSG00000084674 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC02000245.hg.1 | ENSG00000143891 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC14000067.hg.1 | ENSG00000181784 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC22001477.hg.1 | ENSG00000100344 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC10000811.hg.1 | ENSG00000150594 | 0.4300873 | 0.6363093 | FALSE |
| 14 | 1 | TC05001172.hg.1 | ENSG00000154122 | 0.4300873 | 0.6363093 | FALSE |
| 37 | 2 | TC02000891.hg.1 | ENSG00000150540; | 0.4305989 | 0.6363093 | FALSE |
| 85 | 4 | TC05000165.hg.1 | ENSG00000079215; | 0.4312313 | 0.6363093 | FALSE |
| 134 | 6 | TC01001188.hg.1 | ENSG00000143369; | 0.432941 | 0.6376336 | FALSE |
| 86 | 4 | TC10000986.hg.1 | ENSG00000151632; | 0.4400614 | 0.6469067 | FALSE |
| 236 | 10 | TC02000281.hg.1 | ENSG00000116016; | 0.4513077 | 0.6615241 | FALSE |
| 15 | 1 | TC07001897.hg.1 | ENSG00000157680 | 0.452533 | 0.6615241 | FALSE |
| 15 | 1 | TC0Y000185.hg.1 | ENSG00000012817 | 0.452533 | 0.6615241 | FALSE |
| 15 | 1 | TC19001293.hg.1 | ENSG00000105664 | 0.452533 | 0.6615241 | FALSE |
| 39 | 2 | TC02000082.hg.1 | ENSG00000071575; | 0.4574611 | 0.6656292 | FALSE |
| 39 | 2 | TC05001617.hg.1 | ENSG00000164307; | 0.4574611 | 0.6656292 | FALSE |
| 891 | 36 | TC01000785.hg.1 | ENSG00000154027; | 0.4594551 | 0.6666771 | FALSE |
| 89 | 4 | TC01003497.hg.1 | ENSG00000117479; | 0.4662947 | 0.675353 | FALSE |
| 16 | 1 | TC11002162.hg.1 | ENSG00000137501 | 0.4740961 | 0.6816216 | FALSE |
| 16 | 1 | TC10000663.hg.1 | ENSG00000095596 | 0.4740961 | 0.6816216 | FALSE |
| 16 | 1 | TC0X001279.hg.1 | ENSG00000077274 | 0.4740961 | 0.6816216 | FALSE |
| 16 | 1 | TC05000943.hg.1 | ENSG00000156427 | 0.4740961 | 0.6816216 | FALSE |
| 16 | 1 | TC04001084.hg.1 | ENSG00000109819 | 0.4740961 | 0.6816216 | FALSE |
| 16 | 1 | TC12000227.hg.1 | ENSG00000172572 | 0.4740961 | 0.6816216 | FALSE |
| 16 | 1 | TC20000980.hg.1 | ENSG00000124225 | 0.4740961 | 0.6816216 | FALSE |
| 41 | 2 | TC08001659.hg.1 | ENSG00000104419; | 0.4835747 | 0.6853547 | FALSE |
| 41 | 2 | TC01000728.hg.1 | ENSG00000162433; | 0.4835747 | 0.6853547 | FALSE |
| 1839 | 73 | TC01000685.hg.1 | ENSG00000162409; | 0.487155 | 0.6853547 | FALSE |
| 218 | 9 | TC03000214.hg.1 | ENSG00000168036; | 0.4897523 | 0.6853547 | FALSE |
| 1815 | 72 | TC01000685.hg.1 | ENSG00000162409; | 0.4898931 | 0.6853547 | FALSE |
| 117 | 5 | TC01001607.hg.1 | ENSG00000116711; | 0.4901835 | 0.6853547 | FALSE |
| 92 | 4 | TC03000013.hg.1 | ENSG00000150995; | 0.4920741 | 0.6853547 | FALSE |
| 67 | 3 | TC11000198.hg.1 | ENSG00000133816; | 0.4941868 | 0.6853547 | FALSE |
| 17 | 1 | TC18000097.hg.1 | ENSG00000101773 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC06004150.hg.1 | ENSG00000096060 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC06004150.hg.1 | ENSG00000096060 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC04000253.hg.1 | ENSG00000154277 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC01000785.hg.1 | ENSG00000154027 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC07001534.hg.1 | ENSG00000127946 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC06001027.hg.1 | ENSG00000118503 | 0.4948111 | 0.6853547 | FALSE |
| 17 | 1 | TC06000945.hg.1 | ENSG00000152661 | 0.4948111 | 0.6853547 | FALSE |
| 1818 | 72 | TC01000685.hg.1 | ENSG00000162409; | 0.4959245 | 0.6853547 | FALSE |
| 42 | 2 | TC02000082.hg.1 | ENSG00000071575; | 0.4963365 | 0.6853547 | FALSE |
| 42 | 2 | TC02000041.hg.1 | ENSG00000115738; | 0.4963365 | 0.6853547 | FALSE |
| 1819 | 72 | TC01000685.hg.1 | ENSG00000162409; | 0.497934 | 0.6857511 | FALSE |
| 1845 | 73 | TC01000685.hg.1 | ENSG00000162409; | 0.4991441 | 0.6862139 | FALSE |
| 477 | 19 | TC01000394.hg.1 | ENSG00000159023; | 0.5119147 | 0.6986398 | FALSE |
| 299 | 12 | TC01003497.hg.1 | ENSG00000117479; | 0.5139725 | 0.6986398 | FALSE |
| 299 | 12 | TC06000004.hg.1 | ENSG00000112679; | 0.5139725 | 0.6986398 | FALSE |
| 18 | 1 | TC01000643.hg.1 | ENSG00000116157 | 0.5147113 | 0.6986398 | FALSE |
| 18 | 1 | TC06001029.hg.1 | ENSG00000112379 | 0.5147113 | 0.6986398 | FALSE |
| 18 | 1 | TC08000694.hg.1 | ENSG00000184374 | 0.5147113 | 0.6986398 | FALSE |
| 18 | 1 | TC03000214.hg.1 | ENSG00000168036 | 0.5147113 | 0.6986398 | FALSE |

| | | | | | | |
|------|----|-----------------|-----------------|-----------|-----------|-------|
| 18 | 1 | TC08001659.hg.1 | ENSG00000104419 | 0.5147113 | 0.6986398 | FALSE |
| 18 | 1 | TC19001293.hg.1 | ENSG00000105664 | 0.5147113 | 0.6986398 | FALSE |
| 1854 | 73 | TC01000685.hg.1 | ENSG00000162409 | 0.5170825 | 0.6986398 | FALSE |
| 1829 | 72 | TC01000685.hg.1 | ENSG00000162409 | 0.5179866 | 0.6986589 | FALSE |
| 44 | 2 | TC02002624.hg.1 | ENSG00000115415 | 0.5212476 | 0.7000502 | FALSE |
| 44 | 2 | TC02002624.hg.1 | ENSG00000115415 | 0.5212476 | 0.7000502 | FALSE |
| 44 | 2 | TC06000004.hg.1 | ENSG00000112679 | 0.5212476 | 0.7000502 | FALSE |
| 44 | 2 | TC04001001.hg.1 | ENSG00000074211 | 0.5212476 | 0.7000502 | FALSE |
| 19 | 1 | TC10001517.hg.1 | ENSG00000148677 | 0.5338288 | 0.7132862 | FALSE |
| 19 | 1 | TC06000945.hg.1 | ENSG00000152661 | 0.5338288 | 0.7132862 | FALSE |
| 72 | 3 | TC12001324.hg.1 | ENSG00000123095 | 0.5428113 | 0.7234412 | FALSE |
| 46 | 2 | TC11000404.hg.1 | ENSG00000134574 | 0.5453196 | 0.7255524 | FALSE |
| 20 | 1 | TC17001353.hg.1 | ENSG00000176658 | 0.5521944 | 0.728543 | FALSE |
| 20 | 1 | TC03003381.hg.1 | ENSG00000225697 | 0.5521944 | 0.728543 | FALSE |
| 20 | 1 | TC14000353.hg.1 | ENSG00000165617 | 0.5521944 | 0.728543 | FALSE |
| 20 | 1 | TC09000015.hg.1 | ENSG00000147852 | 0.5521944 | 0.728543 | FALSE |
| 73 | 3 | TC06004150.hg.1 | ENSG00000096060 | 0.5522078 | 0.728543 | FALSE |
| 47 | 2 | TC03000131.hg.1 | ENSG00000077092 | 0.5570347 | 0.7330633 | FALSE |
| 47 | 2 | TC03000013.hg.1 | ENSG00000150995 | 0.5570347 | 0.7330633 | FALSE |
| 48 | 2 | TC03000262.hg.1 | ENSG00000160801 | 0.5685336 | 0.7363078 | FALSE |
| 21 | 1 | TC02002624.hg.1 | ENSG00000115415 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC10000811.hg.1 | ENSG00000150594 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC09000358.hg.1 | ENSG00000135069 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC09000965.hg.1 | ENSG00000147883 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC04002929.hg.1 | ENSG00000109743 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC05000054.hg.1 | ENSG00000078295 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC09000965.hg.1 | ENSG00000147883 | 0.5698374 | 0.7363078 | FALSE |
| 21 | 1 | TC09000038.hg.1 | ENSG00000197646 | 0.5698374 | 0.7363078 | FALSE |
| 128 | 5 | TC02000891.hg.1 | ENSG00000150540 | 0.5702868 | 0.7363078 | FALSE |
| 1806 | 70 | TC01000685.hg.1 | ENSG00000162409 | 0.5738923 | 0.7392547 | FALSE |
| 155 | 6 | TC05000054.hg.1 | ENSG00000078295 | 0.5744527 | 0.7392547 | FALSE |
| 182 | 7 | TC02000996.hg.1 | ENSG00000172292 | 0.5784464 | 0.7431099 | FALSE |
| 49 | 2 | TC10001517.hg.1 | ENSG00000148677 | 0.5798151 | 0.7431099 | FALSE |
| 49 | 2 | TC03000131.hg.1 | ENSG00000077092 | 0.5798151 | 0.7431099 | FALSE |
| 103 | 4 | TC01000734.hg.1 | ENSG00000118473 | 0.5815518 | 0.7435149 | FALSE |
| 22 | 1 | TC05000054.hg.1 | ENSG00000078295 | 0.5867864 | 0.7453517 | FALSE |
| 22 | 1 | TC22001477.hg.1 | ENSG00000100344 | 0.5867864 | 0.7453517 | FALSE |
| 22 | 1 | TC05000054.hg.1 | ENSG00000078295 | 0.5867864 | 0.7453517 | FALSE |
| 22 | 1 | TC0Y000185.hg.1 | ENSG00000012817 | 0.5867864 | 0.7453517 | FALSE |
| 22 | 1 | TC20000162.hg.1 | ENSG00000101463 | 0.5867864 | 0.7453517 | FALSE |
| 22 | 1 | TC18000164.hg.1 | ENSG00000141469 | 0.5867864 | 0.7453517 | FALSE |
| 22 | 1 | TC02001750.hg.1 | ENSG00000138061 | 0.5867864 | 0.7453517 | FALSE |
| 239 | 9 | TC03000013.hg.1 | ENSG00000150995 | 0.6011868 | 0.7568487 | FALSE |
| 51 | 2 | TC03000634.hg.1 | ENSG00000173193 | 0.6017234 | 0.7568487 | FALSE |
| 51 | 2 | TC13000799.hg.1 | ENSG00000125257 | 0.6017234 | 0.7568487 | FALSE |
| 23 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.6030686 | 0.7568487 | FALSE |
| 23 | 1 | TC09000358.hg.1 | ENSG00000135069 | 0.6030686 | 0.7568487 | FALSE |
| 79 | 3 | TC03000013.hg.1 | ENSG00000150995 | 0.6060967 | 0.7588293 | FALSE |
| 134 | 5 | TC02000891.hg.1 | ENSG00000150540 | 0.6111218 | 0.7627676 | FALSE |
| 241 | 9 | TC06000120.hg.1 | ENSG00000137393 | 0.6111857 | 0.7627676 | FALSE |
| 52 | 2 | TC02002624.hg.1 | ENSG00000115415 | 0.61235 | 0.7630075 | FALSE |
| 24 | 1 | TC18000574.hg.1 | ENSG00000166347 | 0.6187101 | 0.7656467 | FALSE |
| 24 | 1 | TC07000810.hg.1 | ENSG00000128510 | 0.6187101 | 0.7656467 | FALSE |
| 24 | 1 | TC09002910.hg.1 | ENSG00000107317 | 0.6187101 | 0.7656467 | FALSE |
| 24 | 1 | TC18000574.hg.1 | ENSG00000166347 | 0.6187101 | 0.7656467 | FALSE |
| 24 | 1 | TC18000574.hg.1 | ENSG00000166347 | 0.6187101 | 0.7656467 | FALSE |
| 24 | 1 | TC18000574.hg.1 | ENSG00000166347 | 0.6187101 | 0.7656467 | FALSE |

| | | | | | | |
|------|----|------------------|------------------|-----------|-----------|-------|
| 24 | 1 | TC14000067.hg.1 | ENSG00000181784 | 0.6187101 | 0.7656467 | FALSE |
| 53 | 2 | TC01002195.hg.1 | ENSG00000116649; | 0.6227585 | 0.7656467 | FALSE |
| 53 | 2 | TC04001001.hg.1 | ENSG00000074211; | 0.6227585 | 0.7656467 | FALSE |
| 137 | 5 | TC02000996.hg.1 | ENSG00000172292; | 0.6306727 | 0.7730892 | FALSE |
| 25 | 1 | TC10001517.hg.1 | ENSG00000148677 | 0.6337362 | 0.7730892 | FALSE |
| 25 | 1 | TC03000634.hg.1 | ENSG00000173193 | 0.6337362 | 0.7730892 | FALSE |
| 25 | 1 | TC13000845.hg.1 | ENSG00000102452 | 0.6337362 | 0.7730892 | FALSE |
| 25 | 1 | TC03003381.hg.1 | ENSG00000225697 | 0.6337362 | 0.7730892 | FALSE |
| 25 | 1 | TC13000845.hg.1 | ENSG00000102452 | 0.6337362 | 0.7730892 | FALSE |
| 25 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.6337362 | 0.7730892 | FALSE |
| 111 | 4 | TC02002827.hg.1 | ENSG00000135905; | 0.6405871 | 0.7772192 | FALSE |
| 55 | 2 | TC09000358.hg.1 | ENSG00000135069; | 0.6429245 | 0.7788514 | FALSE |
| 248 | 9 | TC03001466.hg.1 | ENSG00000163931; | 0.6451525 | 0.779792 | FALSE |
| 329 | 12 | TC01003605.hg.1 | ENSG00000135821; | 0.6474052 | 0.779792 | FALSE |
| 26 | 1 | TC01001710.hg.1 | ENSG00000117266 | 0.648171 | 0.779792 | FALSE |
| 26 | 1 | TC02001750.hg.1 | ENSG00000138061 | 0.648171 | 0.779792 | FALSE |
| 26 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.648171 | 0.779792 | FALSE |
| 26 | 1 | TC01001710.hg.1 | ENSG00000117266 | 0.648171 | 0.779792 | FALSE |
| 56 | 2 | TC13000799.hg.1 | ENSG00000125257; | 0.6526841 | 0.7816278 | FALSE |
| 56 | 2 | TC13000799.hg.1 | ENSG00000125257; | 0.6526841 | 0.7816278 | FALSE |
| 142 | 5 | TC01000394.hg.1 | ENSG00000159023; | 0.6618972 | 0.7880207 | FALSE |
| 27 | 1 | TC11002162.hg.1 | ENSG00000137501 | 0.6620378 | 0.7880207 | FALSE |
| 27 | 1 | TC18000565.hg.1 | ENSG00000166479 | 0.6620378 | 0.7880207 | FALSE |
| 27 | 1 | TC12000227.hg.1 | ENSG00000172572 | 0.6620378 | 0.7880207 | FALSE |
| 27 | 1 | TC14000951.hg.1 | ENSG00000092068 | 0.6620378 | 0.7880207 | FALSE |
| 281 | 10 | TC01001792.hg.1 | ENSG00000082482; | 0.6720614 | 0.7969308 | FALSE |
| 28 | 1 | TC14002310.hg.1 | ENSG00000168398 | 0.6753588 | 0.799633 | FALSE |
| 256 | 9 | TC06000120.hg.1 | ENSG00000137393; | 0.6818658 | 0.8061214 | FALSE |
| 29 | 1 | TC07001332.hg.1 | ENSG00000164708 | 0.6881556 | 0.8123341 | FALSE |
| 60 | 2 | TC13000799.hg.1 | ENSG00000125257; | 0.6896032 | 0.8128206 | FALSE |
| 30 | 1 | TC14002310.hg.1 | ENSG00000168398 | 0.7004487 | 0.8225164 | FALSE |
| 30 | 1 | TC10002939.hg.1 | ENSG00000151303 | 0.7004487 | 0.8225164 | FALSE |
| 30 | 1 | TC03000262.hg.1 | ENSG00000160801 | 0.7004487 | 0.8225164 | FALSE |
| 30 | 1 | TC19001220.hg.1 | ENSG00000141837 | 0.7004487 | 0.8225164 | FALSE |
| 121 | 4 | TC01003129.hg.1 | ENSG00000143140; | 0.7063168 | 0.8256279 | FALSE |
| 121 | 4 | TC01003129.hg.1 | ENSG00000143140; | 0.7063168 | 0.8256279 | FALSE |
| 262 | 9 | TC01001112.hg.1; | ENSG00000131778; | 0.7078313 | 0.8256279 | FALSE |
| 31 | 1 | TC12000531.hg.1 | ENSG00000166986 | 0.7122579 | 0.8289436 | FALSE |
| 31 | 1 | TC08001361.hg.1 | ENSG00000076641 | 0.7122579 | 0.8289436 | FALSE |
| 123 | 4 | TC02002827.hg.1 | ENSG00000135905; | 0.7183583 | 0.8311831 | FALSE |
| 152 | 5 | TC01000734.hg.1 | ENSG00000118473; | 0.7190286 | 0.8311831 | FALSE |
| 209 | 7 | TC06000004.hg.1 | ENSG00000112679; | 0.7200363 | 0.8311831 | FALSE |
| 32 | 1 | TC18000097.hg.1 | ENSG00000101773 | 0.7236023 | 0.8311831 | FALSE |
| 32 | 1 | TC18000565.hg.1 | ENSG00000166479 | 0.7236023 | 0.8311831 | FALSE |
| 32 | 1 | TC18000574.hg.1 | ENSG00000166347 | 0.7236023 | 0.8311831 | FALSE |
| 32 | 1 | TC03002146.hg.1 | ENSG00000189058 | 0.7236023 | 0.8311831 | FALSE |
| 2097 | 78 | TC01001907.hg.1 | ENSG00000143641; | 0.7240093 | 0.8311831 | FALSE |
| 124 | 4 | TC01000972.hg.1 | ENSG00000064886; | 0.724241 | 0.8311831 | FALSE |
| 125 | 4 | TC03000214.hg.1 | ENSG00000168036; | 0.7300321 | 0.8366061 | FALSE |
| 33 | 1 | TC04001084.hg.1 | ENSG00000109819 | 0.7345 | 0.8404993 | FALSE |
| 34 | 1 | TC03002008.hg.1 | ENSG00000144959 | 0.7449688 | 0.8506189 | FALSE |
| 34 | 1 | TC06001027.hg.1 | ENSG00000118503 | 0.7449688 | 0.8506189 | FALSE |
| 98 | 3 | TC01000972.hg.1 | ENSG00000064886; | 0.7467998 | 0.8508532 | FALSE |
| 328 | 11 | TC01001112.hg.1; | ENSG00000131778; | 0.7479485 | 0.850927 | FALSE |
| 35 | 1 | TC04001084.hg.1 | ENSG00000109819 | 0.7550253 | 0.857735 | FALSE |
| 131 | 4 | TC02002827.hg.1 | ENSG00000135905; | 0.762872 | 0.8653967 | FALSE |
| 36 | 1 | TC01001112.hg.1 | ENSG00000131778 | 0.7646859 | 0.8655782 | FALSE |
| 36 | 1 | TC08002613.hg.1 | ENSG00000134013 | 0.7646859 | 0.8655782 | FALSE |

| | | | | | | |
|------|----|-----------------|-----------------|-----------|-----------|-------|
| 37 | 1 | TC07000810.hg.1 | ENSG00000128510 | 0.7739661 | 0.8729359 | FALSE |
| 37 | 1 | TC07001552.hg.1 | ENSG00000187391 | 0.7739661 | 0.8729359 | FALSE |
| 37 | 1 | TC11002175.hg.1 | ENSG00000109861 | 0.7739661 | 0.8729359 | FALSE |
| 72 | 2 | TC02002827.hg.1 | ENSG00000135905 | 0.7812884 | 0.8786696 | FALSE |
| 38 | 1 | TC03002146.hg.1 | ENSG00000189058 | 0.7828809 | 0.879201 | FALSE |
| 105 | 3 | TC11002175.hg.1 | ENSG00000109861 | 0.787352 | 0.8821354 | FALSE |
| 73 | 2 | TC02002605.hg.1 | ENSG00000064989 | 0.7877413 | 0.8821354 | FALSE |
| 226 | 7 | TC01001624.hg.1 | ENSG00000116741 | 0.7906755 | 0.8831329 | FALSE |
| 39 | 1 | TC21000241.hg.1 | ENSG00000197381 | 0.7914445 | 0.8831329 | FALSE |
| 39 | 1 | TC03001884.hg.1 | ENSG00000047457 | 0.7914445 | 0.8831329 | FALSE |
| 74 | 2 | TC01001112.hg.1 | ENSG00000131778 | 0.7940261 | 0.8841284 | FALSE |
| 107 | 3 | TC01002166.hg.1 | ENSG00000116285 | 0.7979015 | 0.8871851 | FALSE |
| 40 | 1 | TC19001220.hg.1 | ENSG00000141837 | 0.799671 | 0.8878949 | FALSE |
| 2389 | 87 | TC01000685.hg.1 | ENSG00000162409 | 0.8028006 | 0.8901109 | FALSE |
| 76 | 2 | TC05000165.hg.1 | ENSG00000079215 | 0.806104 | 0.8925129 | FALSE |
| 41 | 1 | TC06004150.hg.1 | ENSG00000096060 | 0.8075734 | 0.8928804 | FALSE |
| 293 | 9 | TC06000120.hg.1 | ENSG00000137393 | 0.8194728 | 0.9017157 | FALSE |
| 2246 | 81 | TC01000685.hg.1 | ENSG00000162409 | 0.8209483 | 0.9017157 | FALSE |
| 2246 | 81 | TC01000685.hg.1 | ENSG00000162409 | 0.8209483 | 0.9017157 | FALSE |
| 112 | 3 | TC03000214.hg.1 | ENSG00000168036 | 0.822371 | 0.9017157 | FALSE |
| 43 | 1 | TC11000174.hg.1 | ENSG00000166483 | 0.8224566 | 0.9017157 | FALSE |
| 43 | 1 | TC06004150.hg.1 | ENSG00000096060 | 0.8224566 | 0.9017157 | FALSE |
| 43 | 1 | TC15000971.hg.1 | ENSG00000184254 | 0.8224566 | 0.9017157 | FALSE |
| 80 | 2 | TC05000159.hg.1 | ENSG00000168685 | 0.8283836 | 0.9024633 | FALSE |
| 44 | 1 | TC18000097.hg.1 | ENSG00000101773 | 0.8294615 | 0.9024633 | FALSE |
| 44 | 1 | TC06001027.hg.1 | ENSG00000118503 | 0.8294615 | 0.9024633 | FALSE |
| 44 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.8294615 | 0.9024633 | FALSE |
| 44 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.8294615 | 0.9024633 | FALSE |
| 44 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.8294615 | 0.9024633 | FALSE |
| 44 | 1 | TC05000165.hg.1 | ENSG00000079215 | 0.8294615 | 0.9024633 | FALSE |
| 44 | 1 | TC17001301.hg.1 | ENSG00000109107 | 0.8294615 | 0.9024633 | FALSE |
| 861 | 29 | TC01003042.hg.1 | ENSG00000092607 | 0.8335435 | 0.9025264 | FALSE |
| 45 | 1 | TC14000067.hg.1 | ENSG00000181784 | 0.8361904 | 0.9041453 | FALSE |
| 82 | 2 | TC03000013.hg.1 | ENSG00000150995 | 0.8386365 | 0.9048829 | FALSE |
| 82 | 2 | TC03000013.hg.1 | ENSG00000150995 | 0.8386365 | 0.9048829 | FALSE |
| 865 | 29 | TC01003042.hg.1 | ENSG00000092607 | 0.8403308 | 0.9048829 | FALSE |
| 46 | 1 | TC03000013.hg.1 | ENSG00000150995 | 0.8426542 | 0.9049022 | FALSE |
| 46 | 1 | TC03000013.hg.1 | ENSG00000150995 | 0.8426542 | 0.9049022 | FALSE |
| 46 | 1 | TC06004150.hg.1 | ENSG00000096060 | 0.8426542 | 0.9049022 | FALSE |
| 335 | 10 | TC01006414.hg.1 | ENSG00000143248 | 0.8537786 | 0.9132602 | FALSE |
| 48 | 1 | TC05001110.hg.1 | ENSG00000153395 | 0.8548278 | 0.9132602 | FALSE |
| 48 | 1 | TC02000996.hg.1 | ENSG00000172292 | 0.8548278 | 0.9132602 | FALSE |
| 120 | 3 | TC08000203.hg.1 | ENSG00000092964 | 0.8562541 | 0.9132602 | FALSE |
| 49 | 1 | TC01001112.hg.1 | ENSG00000131778 | 0.8605572 | 0.9155331 | FALSE |
| 49 | 1 | TC02002827.hg.1 | ENSG00000135905 | 0.8605572 | 0.9155331 | FALSE |
| 87 | 2 | TC12000803.hg.1 | ENSG00000166598 | 0.861884 | 0.9155331 | FALSE |
| 50 | 1 | TC02002143.hg.1 | ENSG00000204634 | 0.8660608 | 0.9187267 | FALSE |
| 91 | 2 | TC16001088.hg.1 | ENSG00000171208 | 0.8782297 | 0.9303783 | FALSE |
| 288 | 8 | TC01002166.hg.1 | ENSG00000116285 | 0.8841088 | 0.9348149 | FALSE |
| 54 | 1 | TC12000531.hg.1 | ENSG00000166986 | 0.8859901 | 0.9348149 | FALSE |
| 54 | 1 | TC12000531.hg.1 | ENSG00000166986 | 0.8859901 | 0.9348149 | FALSE |
| 54 | 1 | TC12000531.hg.1 | ENSG00000166986 | 0.8859901 | 0.9348149 | FALSE |
| 94 | 2 | TC03000013.hg.1 | ENSG00000150995 | 0.8892972 | 0.9357886 | FALSE |
| 414 | 12 | TC01001624.hg.1 | ENSG00000116741 | 0.8945557 | 0.9400619 | FALSE |
| 59 | 1 | TC11002162.hg.1 | ENSG00000137501 | 0.9067902 | 0.9513874 | FALSE |
| 422 | 12 | TC01001624.hg.1 | ENSG00000116741 | 0.9077569 | 0.9513874 | FALSE |
| 137 | 3 | TC08000255.hg.1 | ENSG00000157168 | 0.9100148 | 0.9516911 | FALSE |
| 60 | 1 | TC15001136.hg.1 | ENSG00000166664 | 0.9104714 | 0.9516911 | FALSE |
| 207 | 5 | TC01002847.hg.1 | ENSG00000117228 | 0.914138 | 0.9532678 | FALSE |

| | | | | | | |
|------|-----|-----------------|------------------|-----------|-----------|-------|
| 102 | 2 | TC08002613.hg.1 | ENSG00000134013; | 0.9144085 | 0.9532678 | FALSE |
| 175 | 4 | TC11000198.hg.1 | ENSG00000133816; | 0.9175198 | 0.9552428 | FALSE |
| 104 | 2 | TC03000013.hg.1 | ENSG00000150995; | 0.919794 | 0.9563421 | FALSE |
| 496 | 14 | TC01003605.hg.1 | ENSG00000135821; | 0.9268748 | 0.9624296 | FALSE |
| 66 | 1 | TC03002146.hg.1 | ENSG00000189058 | 0.9297021 | 0.9640901 | FALSE |
| 109 | 2 | TC02002827.hg.1 | ENSG00000135905; | 0.9318956 | 0.9641218 | FALSE |
| 378 | 10 | TC01000728.hg.1 | ENSG00000162433; | 0.9321891 | 0.9641218 | FALSE |
| 357 | 9 | TC01001624.hg.1 | ENSG00000116741; | 0.9448571 | 0.9737847 | FALSE |
| 116 | 2 | TC03001362.hg.1 | ENSG00000160808; | 0.9459658 | 0.9737847 | FALSE |
| 390 | 10 | TC01000728.hg.1 | ENSG00000162433; | 0.9462138 | 0.9737847 | FALSE |
| 390 | 10 | TC01000728.hg.1 | ENSG00000162433; | 0.9462138 | 0.9737847 | FALSE |
| 117 | 2 | TC06000004.hg.1 | ENSG00000112679; | 0.9477344 | 0.9737847 | FALSE |
| 74 | 1 | TC14000067.hg.1 | ENSG00000181784 | 0.949084 | 0.9738966 | FALSE |
| 80 | 1 | TC20000926.hg.1 | ENSG00000158445 | 0.9600292 | 0.9838419 | FALSE |
| 81 | 1 | TC21000241.hg.1 | ENSG00000197381 | 0.9616098 | 0.9841769 | FALSE |
| 129 | 2 | TC01001112.hg.1 | ENSG00000131778; | 0.9650793 | 0.9858 | FALSE |
| 129 | 2 | TC01001112.hg.1 | ENSG00000131778; | 0.9650793 | 0.9858 | FALSE |
| 698 | 19 | TC01001112.hg.1 | ENSG00000131778; | 0.9684109 | 0.9872761 | FALSE |
| 178 | 3 | TC02002827.hg.1 | ENSG00000135905; | 0.9732134 | 0.9905258 | FALSE |
| 744 | 20 | TC01001112.hg.1 | ENSG00000131778; | 0.9756081 | 0.9905258 | FALSE |
| 746 | 20 | TC01001112.hg.1 | ENSG00000131778; | 0.9764131 | 0.9905258 | FALSE |
| 184 | 3 | TC11002175.hg.1 | ENSG00000109861; | 0.9777408 | 0.9905258 | FALSE |
| 1861 | 58 | TC01002530.hg.1 | ENSG00000183386; | 0.9794401 | 0.9905258 | FALSE |
| 145 | 2 | TC0Y000351.hg.1 | ENSG00000129824; | 0.9798048 | 0.9905258 | FALSE |
| 757 | 20 | TC01001112.hg.1 | ENSG00000131778; | 0.9804313 | 0.9905258 | FALSE |
| 167 | 2 | TC01001112.hg.1 | ENSG00000131778; | 0.9906341 | 0.9986897 | FALSE |
| 801 | 20 | TC02001437.hg.1 | ENSG00000144476; | 0.9910564 | 0.9986897 | FALSE |
| 124 | 1 | TC11002175.hg.1 | ENSG00000109861 | 0.9932436 | 0.9996105 | FALSE |
| 2075 | 58 | TC01001112.hg.1 | ENSG00000131778; | 0.9988159 | 0.9999999 | FALSE |
| 612 | 11 | TC04001084.hg.1 | ENSG00000109819; | 0.9992695 | 0.9999999 | FALSE |
| 5012 | 157 | TC01000685.hg.1 | ENSG00000162409; | 0.9998529 | 0.9999999 | FALSE |
| 4941 | 153 | TC01000685.hg.1 | ENSG00000162409; | 0.9999108 | 0.9999999 | FALSE |
| 2991 | 70 | TC01001112.hg.1 | ENSG00000131778; | 0.9999999 | 0.9999999 | FALSE |

| Names | Genes_In_Term | DEG |
|--|---------------|-----|
| Total | 9927 | 415 |
| ko04610 Complement and coagulation cascades | 157 | 24 |
| ko05200 Pathways in cancer | 439 | 44 |
| ko04510 Focal adhesion | 377 | 34 |
| ko05410 Hypertrophic cardiomyopathy (HCM) | 127 | 16 |
| ko04350 TGF-beta signaling pathway | 116 | 15 |
| ko05211 Renal cell carcinoma | 95 | 13 |
| ko00010 Glycolysis / Gluconeogenesis | 96 | 13 |
| ko04512 ECM-receptor interaction | 166 | 18 |
| ko05412 Arrhythmogenic right ventricular cardiomyopathy (ARVC) | 114 | 14 |
| ko05215 Prostate cancer | 118 | 14 |
| ko00340 Histidine metabolism | 26 | 6 |
| ko00910 Nitrogen metabolism | 33 | 6 |
| ko04060 Cytokine-cytokine receptor interaction | 309 | 24 |
| ko00561 Glycerolipid metabolism | 86 | 10 |
| ko00051 Fructose and mannose metabolism | 47 | 7 |
| ko05222 Small cell lung cancer | 119 | 12 |
| ko04930 Type II diabetes mellitus | 77 | 9 |
| ko05218 Melanoma | 92 | 10 |
| ko04360 Axon guidance | 244 | 19 |
| ko00512 Mucin type O-Glycan biosynthesis | 30 | 5 |
| ko04640 Hematopoietic cell lineage | 161 | 14 |
| ko04976 Bile secretion | 100 | 10 |
| ko00410 beta-Alanine metabolism | 46 | 6 |
| ko04810 Regulation of actin cytoskeleton | 332 | 23 |
| ko00710 Carbon fixation in photosynthetic organisms | 35 | 5 |
| ko05414 Dilated cardiomyopathy | 178 | 14 |
| ko00360 Phenylalanine metabolism | 26 | 4 |
| ko04270 Vascular smooth muscle contraction | 198 | 14 |
| ko04710 Circadian rhythm - mammal | 31 | 4 |
| ko00903 Limonene and pinene degradation | 8 | 2 |
| ko00350 Tyrosine metabolism | 47 | 5 |
| ko04974 Protein digestion and absorption | 167 | 12 |
| ko04115 p53 signaling pathway | 97 | 8 |
| ko04150 mTOR signaling pathway | 99 | 8 |
| ko05212 Pancreatic cancer | 101 | 8 |
| ko00120 Primary bile acid biosynthesis | 23 | 3 |
| ko00625 Chloroalkane and chloroalkene degradation | 11 | 2 |
| ko00330 Arginine and proline metabolism | 88 | 7 |
| ko04310 Wnt signaling pathway | 240 | 15 |
| ko05144 Malaria | 126 | 9 |
| ko00532 Glycosaminoglycan biosynthesis - chondroitin sulfate | 25 | 3 |
| ko04614 Renin-angiotensin system | 25 | 3 |
| ko04973 Carbohydrate digestion and absorption | 91 | 7 |
| ko04013 MAPK signaling pathway - fly | 26 | 3 |
| ko05219 Bladder cancer | 58 | 5 |
| ko00620 Pyruvate metabolism | 59 | 5 |
| ko05210 Colorectal cancer | 97 | 7 |
| ko04972 Pancreatic secretion | 154 | 10 |
| ko05100 Bacterial invasion of epithelial cells | 155 | 10 |
| ko00564 Glycerophospholipid metabolism | 120 | 8 |
| ko04670 Leukocyte transendothelial migration | 220 | 13 |
| ko05146 Amoebiasis | 241 | 14 |
| ko05213 Endometrial cancer | 84 | 6 |
| ko04920 Adipocytokine signaling pathway | 103 | 7 |
| ko04520 Adherens junction | 142 | 9 |
| ko00533 Glycosaminoglycan biosynthesis - keratan sulfate | 16 | 2 |

| | | | |
|---------|--|-----|----|
| ko04711 | Circadian rhythm - fly | 16 | 2 |
| ko03320 | PPAR signaling pathway | 123 | 8 |
| ko05214 | Glioma | 126 | 8 |
| ko00053 | Ascorbate and aldarate metabolism | 33 | 3 |
| ko00590 | Arachidonic acid metabolism | 89 | 6 |
| ko04960 | Aldosterone-regulated sodium reabsorption | 89 | 6 |
| ko00680 | Methane metabolism | 52 | 4 |
| ko04010 | MAPK signaling pathway | 384 | 20 |
| ko00040 | Pentose and glucuronate interconversions | 36 | 3 |
| ko00524 | Butirosin and neomycin biosynthesis | 5 | 1 |
| ko00140 | Steroid hormone biosynthesis | 74 | 5 |
| ko04961 | Endocrine and other factor-regulated calcium reabsorption | 94 | 6 |
| ko00030 | Pentose phosphate pathway | 37 | 3 |
| ko05160 | Hepatitis C | 197 | 11 |
| ko05142 | Chagas disease (American trypanosomiasis) | 198 | 11 |
| ko00604 | Glycosphingolipid biosynthesis - ganglio series | 21 | 2 |
| ko04380 | Osteoclast differentiation | 180 | 10 |
| ko00052 | Galactose metabolism | 39 | 3 |
| ko04964 | Proximal tubule bicarbonate reclamation | 58 | 4 |
| ko04260 | Cardiac muscle contraction | 100 | 6 |
| ko02010 | ABC transporters | 60 | 4 |
| ko00730 | Thiamine metabolism | 7 | 1 |
| ko04112 | Cell cycle - Caulobacter | 7 | 1 |
| ko00380 | Tryptophan metabolism | 62 | 4 |
| ko04540 | Gap junction | 124 | 7 |
| ko04978 | Mineral absorption | 63 | 4 |
| ko05217 | Basal cell carcinoma | 63 | 4 |
| ko04630 | Jak-STAT signaling pathway | 190 | 10 |
| ko04370 | VEGF signaling pathway | 126 | 7 |
| ko00250 | Alanine, aspartate and glutamate metabolism | 44 | 3 |
| ko00500 | Starch and sucrose metabolism | 85 | 5 |
| ko04062 | Chemokine signaling pathway | 263 | 13 |
| ko05120 | Epithelial cell signaling in Helicobacter pylori infection | 88 | 5 |
| ko04910 | Insulin signaling pathway | 243 | 12 |
| ko00750 | Vitamin B6 metabolism | 9 | 1 |
| ko05145 | Toxoplasmosis | 266 | 13 |
| ko05221 | Acute myeloid leukemia | 90 | 5 |
| ko05223 | Non-small cell lung cancer | 90 | 5 |
| ko04724 | Glutamatergic synapse | 158 | 8 |
| ko00534 | Glycosaminoglycan biosynthesis - heparan sulfate | 29 | 2 |
| ko00520 | Amino sugar and nucleotide sugar metabolism | 93 | 5 |
| ko04012 | ErbB signaling pathway | 139 | 7 |
| ko04142 | Lysosome | 163 | 8 |
| ko00565 | Ether lipid metabolism | 53 | 3 |
| ko00230 | Purine metabolism | 257 | 12 |
| ko04971 | Gastric acid secretion | 143 | 7 |
| ko04916 | Melanogenesis | 145 | 7 |
| ko00760 | Nicotinate and nicotinamide metabolism | 33 | 2 |
| ko05143 | African trypanosomiasis | 101 | 5 |
| ko00130 | Ubiquinone and other terpenoid-quinone biosynthesis | 13 | 1 |
| ko00950 | Isoquinoline alkaloid biosynthesis | 13 | 1 |
| ko04977 | Vitamin digestion and absorption | 13 | 1 |
| ko04530 | Tight junction | 288 | 13 |
| ko05020 | Prion diseases | 58 | 3 |
| ko02020 | Two-component system | 14 | 1 |
| ko00480 | Glutathione metabolism | 83 | 4 |
| ko04912 | GnRH signaling pathway | 154 | 7 |
| ko04914 | Progesterone-mediated oocyte maturation | 131 | 6 |

| | | | |
|---------|---|-----|----|
| ko04621 | NOD-like receptor signaling pathway | 108 | 5 |
| ko00514 | Other types of O-glycan biosynthesis | 62 | 3 |
| ko04722 | Neurotrophin signaling pathway | 228 | 10 |
| ko00521 | Streptomycin biosynthesis | 16 | 1 |
| ko04330 | Notch signaling pathway | 89 | 4 |
| ko00100 | Steroid biosynthesis | 41 | 2 |
| ko05216 | Thyroid cancer | 41 | 2 |
| ko04144 | Endocytosis | 380 | 16 |
| ko00640 | Propanoate metabolism | 43 | 2 |
| ko05131 | Shigellosis | 117 | 5 |
| ko05220 | Chronic myeloid leukemia | 118 | 5 |
| ko04320 | Dorso-ventral axis formation | 69 | 3 |
| ko04020 | Calcium signaling pathway | 364 | 15 |
| ko04514 | Cell adhesion molecules (CAMs) | 340 | 14 |
| ko05150 | Staphylococcus aureus infection | 268 | 11 |
| ko00270 | Cysteine and methionine metabolism | 71 | 3 |
| ko00860 | Porphyryn and chlorophyll metabolism | 46 | 2 |
| ko00600 | Sphingolipid metabolism | 72 | 3 |
| ko05140 | Leishmaniasis | 223 | 9 |
| ko04730 | Long-term depression | 100 | 4 |
| ko00450 | Selenocompound metabolism | 22 | 1 |
| ko00531 | Glycosaminoglycan degradation | 22 | 1 |
| ko04620 | Toll-like receptor signaling pathway | 152 | 6 |
| ko00920 | Sulfur metabolism | 23 | 1 |
| ko00980 | Metabolism of xenobiotics by cytochrome P450 | 77 | 3 |
| ko04742 | Taste transduction | 51 | 2 |
| ko04080 | Neuroactive ligand-receptor interaction | 357 | 14 |
| ko00260 | Glycine, serine and threonine metabolism | 52 | 2 |
| ko04970 | Salivary secretion | 183 | 7 |
| ko00982 | Drug metabolism - cytochrome P450 | 81 | 3 |
| ko05016 | Huntingtons disease | 239 | 9 |
| ko04110 | Cell cycle | 162 | 6 |
| ko00563 | Glycosylphosphatidylinositol(GPI)-anchor biosynthesis | 27 | 1 |
| ko00071 | Fatty acid metabolism | 56 | 2 |
| ko04070 | Phosphatidylinositol signaling system | 164 | 6 |
| ko04975 | Fat digestion and absorption | 58 | 2 |
| ko04950 | Maturity onset diabetes of the young | 29 | 1 |
| ko04622 | RIG-I-like receptor signaling pathway | 90 | 3 |
| ko00280 | Valine, leucine and isoleucine degradation | 63 | 2 |
| ko00592 | alpha-Linolenic acid metabolism | 33 | 1 |
| ko04720 | Long-term potentiation | 129 | 4 |
| ko00591 | Linoleic acid metabolism | 38 | 1 |
| ko00830 | Retinol metabolism | 72 | 2 |
| ko05340 | Primary immunodeficiency | 106 | 3 |
| ko04662 | B cell receptor signaling pathway | 166 | 5 |
| ko04650 | Natural killer cell mediated cytotoxicity | 307 | 10 |
| ko04664 | Fc epsilon RI signaling pathway | 169 | 5 |
| ko03410 | Base excision repair | 43 | 1 |
| ko04140 | Regulation of autophagy | 43 | 1 |
| ko00310 | Lysine degradation | 80 | 2 |
| ko04120 | Ubiquitin mediated proteolysis | 205 | 6 |
| ko04666 | Fc gamma R-mediated phagocytosis | 206 | 6 |
| ko05110 | Vibrio cholerae infection | 120 | 3 |
| ko04114 | Oocyte meiosis | 187 | 5 |
| ko05323 | Rheumatoid arthritis | 281 | 8 |
| ko04962 | Vasopressin-regulated water reabsorption | 58 | 1 |
| ko04113 | Meiosis - yeast | 97 | 2 |
| ko04210 | Apoptosis | 133 | 3 |

| | | | |
|---------|--|-----|----|
| ko04626 | Plant-pathogen interaction | 99 | 2 |
| ko03022 | Basal transcription factors | 61 | 1 |
| ko05010 | Alzheimers disease | 233 | 6 |
| ko00562 | Inositol phosphate metabolism | 106 | 2 |
| ko05130 | Pathogenic Escherichia coli infection | 108 | 2 |
| ko00970 | Aminoacyl-tRNA biosynthesis | 69 | 1 |
| ko04111 | Cell cycle - yeast | 113 | 2 |
| ko03420 | Nucleotide excision repair | 74 | 1 |
| ko04623 | Cytosolic DNA-sensing pathway | 74 | 1 |
| ko03015 | mRNA surveillance pathway | 85 | 1 |
| ko00240 | Pyrimidine metabolism | 135 | 2 |
| ko04660 | T cell receptor signaling pathway | 221 | 4 |
| ko04672 | Intestinal immune network for IgA production | 221 | 4 |
| ko05012 | Parkinsons disease | 159 | 2 |
| ko04146 | Peroxisome | 116 | 1 |
| ko05162 | Measles | 291 | 5 |
| ko03018 | RNA degradation | 126 | 1 |
| ko03050 | Proteasome | 646 | 15 |
| ko04145 | Phagosome | 423 | 8 |
| ko00190 | Oxidative phosphorylation | 144 | 1 |
| ko05152 | Tuberculosis | 405 | 7 |
| ko05416 | Viral myocarditis | 369 | 6 |
| ko03013 | RNA transport | 252 | 3 |
| ko05332 | Graft-versus-host disease | 211 | 2 |
| ko03010 | Ribosome | 158 | 1 |
| ko04141 | Protein processing in endoplasmic reticulum | 262 | 3 |
| ko05322 | Systemic lupus erythematosus | 380 | 5 |
| ko05310 | Asthma | 206 | 1 |
| ko04940 | Type I diabetes mellitus | 227 | 1 |
| ko05330 | Allograft rejection | 261 | 1 |
| ko05320 | Autoimmune thyroid disease | 272 | 1 |
| ko04612 | Antigen processing and presentation | 295 | 1 |

| Input_gene | Gene_Symbol | P_value | Q_value | Significant |
|------------------|------------------|-----------|-----------|-------------|
| - | - | - | - | - |
| TC01001736.hg.1; | ENSG00000196352; | 3.132E-08 | 5.258E-06 | TRUE |
| TC01001805.hg.1; | ENSG00000092969; | 5.155E-08 | 5.258E-06 | TRUE |
| TC01000789.hg.1; | ENSG00000162614; | 1.849E-05 | 0.0012576 | TRUE |
| TC01000685.hg.1; | ENSG00000162409; | 7.495E-05 | 0.0037846 | TRUE |
| TC01001805.hg.1; | ENSG00000092969; | 9.276E-05 | 0.0037846 | TRUE |
| TC01001805.hg.1; | ENSG00000092969; | 0.0001516 | 0.0049199 | TRUE |
| TC02000245.hg.1; | ENSG00000143891; | 0.0001688 | 0.0049199 | TRUE |
| TC01001095.hg.1; | ENSG00000143127; | 0.0001937 | 0.0049396 | TRUE |
| TC01001095.hg.1; | ENSG00000143127; | 0.0002741 | 0.006214 | TRUE |
| TC01002616.hg.1; | ENSG00000117461; | 0.0003931 | 0.0080186 | TRUE |
| TC02000891.hg.1; | ENSG00000150540; | 0.0005809 | 0.0107729 | TRUE |
| TC01003605.hg.1; | ENSG00000135821; | 0.0021819 | 0.0370916 | TRUE |
| TC01001805.hg.1; | ENSG00000092969; | 0.0025558 | 0.0401056 | TRUE |
| TC06001313.hg.1; | ENSG00000172197; | 0.0030242 | 0.0426504 | TRUE |
| TC02000466.hg.1; | ENSG00000159399; | 0.0031361 | 0.0426504 | TRUE |
| TC01002616.hg.1; | ENSG00000117461; | 0.0040387 | 0.0514934 | FALSE |
| TC01002503.hg.1; | ENSG00000171812; | 0.0046473 | 0.0557681 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.0049361 | 0.0559419 | FALSE |
| TC01001624.hg.1; | ENSG00000116741; | 0.0067209 | 0.0721607 | FALSE |
| TC01001907.hg.1; | ENSG00000143641; | 0.0074829 | 0.0727476 | FALSE |
| TC01001736.hg.1; | ENSG00000196352; | 0.0074887 | 0.0727476 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.0088304 | 0.0818819 | FALSE |
| TC01002195.hg.1; | ENSG00000116649; | 0.0117002 | 0.1022221 | FALSE |
| TC01000789.hg.1; | ENSG00000162614; | 0.0120261 | 0.1022221 | FALSE |
| TC03001466.hg.1; | ENSG00000163931; | 0.0143782 | 0.117326 | FALSE |
| TC01001095.hg.1; | ENSG00000143127; | 0.0170988 | 0.1341596 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221; | 0.0216996 | 0.1639527 | FALSE |
| TC01000789.hg.1; | ENSG00000162614; | 0.0380705 | 0.273107 | FALSE |
| TC01000100.hg.1; | ENSG00000049246; | 0.038824 | 0.273107 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.0413009 | 0.2808458 | FALSE |
| TC06002113.hg.1; | ENSG00000079931; | 0.0453512 | 0.2984403 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.0472497 | 0.3012169 | FALSE |
| TC02002765.hg.1; | ENSG00000079308; | 0.0497355 | 0.307456 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.0549016 | 0.3294098 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.0603985 | 0.3520372 | FALSE |
| TC06001772.hg.1; | ENSG00000146233; | 0.0691616 | 0.3919157 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.0747195 | 0.4012834 | FALSE |
| TC01002195.hg.1; | ENSG00000116649; | 0.0747489 | 0.4012834 | FALSE |
| TC02002714.hg.1; | ENSG00000163251; | 0.0782154 | 0.4076661 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.0812165 | 0.4076661 | FALSE |
| TC05000619.hg.1; | ENSG00000198108; | 0.0845605 | 0.4076661 | FALSE |
| TC03000846.hg.1; | ENSG00000196549; | 0.0845605 | 0.4076661 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.0859296 | 0.4076661 | FALSE |
| TC06004055.hg.1; | ENSG00000047936; | 0.0927597 | 0.4264469 | FALSE |
| TC04000408.hg.1; | ENSG00000169429; | 0.0940692 | 0.4264469 | FALSE |
| TC07001883.hg.1; | ENSG00000085662; | 0.0994561 | 0.4410661 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.1109792 | 0.4720244 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.1110646 | 0.4720244 | FALSE |
| TC01002530.hg.1; | ENSG00000183386; | 0.1145794 | 0.4770243 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.1293312 | 0.5026062 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.1319086 | 0.5026062 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.1336722 | 0.5026062 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.1387917 | 0.5026062 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.139471 | 0.5026062 | FALSE |
| TC03000214.hg.1; | ENSG00000168036; | 0.1402341 | 0.5026062 | FALSE |
| TC11001589.hg.1; | ENSG00000175264; | 0.1424328 | 0.5026062 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC01000100.hg.1; | ENSG00000049246; | 0.1424328 | 0.5026062 | FALSE |
| TC01002503.hg.1; | ENSG00000171812; | 0.1428978 | 0.5026062 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.1571398 | 0.5374235 | FALSE |
| TC04002948.hg.1; | ENSG00000137463; | 0.1580657 | 0.5374235 | FALSE |
| TC01000643.hg.1; | ENSG00000116157; | 0.1680238 | 0.555594 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.1680238 | 0.555594 | FALSE |
| TC07001332.hg.1; | ENSG00000164708; | 0.1715805 | 0.555594 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.1827953 | 0.5826601 | FALSE |
| TC07001883.hg.1; | ENSG00000085662; | 0.189422 | 0.5894088 | FALSE |
| TC02000466.hg.1 | ENSG00000159399 | 0.1923001 | 0.5894088 | FALSE |
| TC02001750.hg.1; | ENSG00000138061; | 0.1966654 | 0.5894088 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.1995905 | 0.5894088 | FALSE |
| TC03001466.hg.1; | ENSG00000163931; | 0.2002076 | 0.5894088 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.2022481 | 0.5894088 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.2067261 | 0.5939736 | FALSE |
| TC01000783.hg.1; | ENSG00000117069; | 0.2183551 | 0.6077033 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.2211572 | 0.6077033 | FALSE |
| TC02000466.hg.1; | ENSG00000159399; | 0.2221879 | 0.6077033 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.2234203 | 0.6077033 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.240055 | 0.6399211 | FALSE |
| TC13000799.hg.1; | ENSG00000125257; | 0.2415388 | 0.6399211 | FALSE |
| TC12000656.hg.1 | ENSG00000067798 | 0.2584565 | 0.6589568 | FALSE |
| TC19000377.hg.1 | ENSG00000160161 | 0.2584565 | 0.6589568 | FALSE |
| TC02001750.hg.1; | ENSG00000138061; | 0.2599773 | 0.6589568 | FALSE |
| TC03000013.hg.1; | ENSG00000150995; | 0.2616446 | 0.6589568 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.2692983 | 0.6591813 | FALSE |
| TC02002714.hg.1; | ENSG00000163251; | 0.2692983 | 0.6591813 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.2721614 | 0.6591813 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.2746589 | 0.6591813 | FALSE |
| TC01003605.hg.1; | ENSG00000135821; | 0.2788585 | 0.6614784 | FALSE |
| TC02000466.hg.1; | ENSG00000159399; | 0.2824088 | 0.6621999 | FALSE |
| TC01002530.hg.1; | ENSG00000183386; | 0.30676 | 0.7037198 | FALSE |
| TC03000743.hg.1; | ENSG00000114098; | 0.307015 | 0.7037198 | FALSE |
| TC01000685.hg.1; | ENSG00000162409; | 0.3179919 | 0.7060143 | FALSE |
| TC09000358.hg.1 | ENSG00000135069 | 0.3192062 | 0.7060143 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.3209821 | 0.7060143 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.3235899 | 0.7060143 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.3235899 | 0.7060143 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.3408766 | 0.7300014 | FALSE |
| TC02002292.hg.1; | ENSG00000136720; | 0.34353 | 0.7300014 | FALSE |
| TC01000972.hg.1; | ENSG00000064886; | 0.348622 | 0.7331844 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.362409 | 0.7544023 | FALSE |
| TC01002441.hg.1; | ENSG00000162511; | 0.3727217 | 0.7680326 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.3828222 | 0.7800143 | FALSE |
| TC01000728.hg.1; | ENSG00000162433; | 0.3890343 | 0.7800143 | FALSE |
| TC01000789.hg.1; | ENSG00000162614; | 0.3900071 | 0.7800143 | FALSE |
| TC02002714.hg.1; | ENSG00000163251; | 0.4038261 | 0.7926469 | FALSE |
| TC04002929.hg.1; | ENSG00000109743; | 0.4040945 | 0.7926469 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.4155965 | 0.8022759 | FALSE |
| TC12002066.hg.1 | ENSG00000158104 | 0.4262131 | 0.8022759 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221 | 0.4262131 | 0.8022759 | FALSE |
| TC16000193.hg.1 | ENSG00000103222 | 0.4262131 | 0.8022759 | FALSE |
| TC01000394.hg.1; | ENSG00000159023; | 0.428667 | 0.8022759 | FALSE |
| TC05000701.hg.1; | ENSG00000120738; | 0.4393785 | 0.8148474 | FALSE |
| TC01003605.hg.1 | ENSG00000135821 | 0.4502318 | 0.827453 | FALSE |
| TC01000643.hg.1; | ENSG00000116157; | 0.4594076 | 0.8367781 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.4656617 | 0.8396159 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.469293 | 0.8396159 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC03000248.hg.1; | ENSG00000144791; | 0.4733129 | 0.8396159 | FALSE |
| TC03003359.hg.1; | ENSG00000172986; | 0.4831603 | 0.8447682 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.4844994 | 0.8447682 | FALSE |
| TC02000466.hg.1 | ENSG00000159399 | 0.4953017 | 0.8562843 | FALSE |
| TC03000743.hg.1; | ENSG00000114098; | 0.5140016 | 0.8739698 | FALSE |
| TC01003887.hg.1; | ENSG00000143815; | 0.516242 | 0.8739698 | FALSE |
| TC03000214.hg.1; | ENSG00000168036; | 0.516242 | 0.8739698 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.5254819 | 0.8786746 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.5420302 | 0.8958753 | FALSE |
| TC02002827.hg.1; | ENSG00000135905; | 0.5445517 | 0.8958753 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.5521917 | 0.897151 | FALSE |
| TC07000328.hg.1; | ENSG00000146648; | 0.5555498 | 0.897151 | FALSE |
| TC01000789.hg.1; | ENSG00000162614; | 0.5613118 | 0.897151 | FALSE |
| TC01000904.hg.1; | ENSG00000162692; | 0.5629183 | 0.897151 | FALSE |
| TC02000937.hg.1; | ENSG00000123610; | 0.5691238 | 0.9000097 | FALSE |
| TC01002195.hg.1; | ENSG00000116649; | 0.5750958 | 0.9014796 | FALSE |
| TC03001884.hg.1; | ENSG00000047457; | 0.5788913 | 0.9014796 | FALSE |
| TC02000996.hg.1; | ENSG00000172292; | 0.5846656 | 0.9035742 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.5914901 | 0.907248 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.6067767 | 0.9162838 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.6095706 | 0.9162838 | FALSE |
| TC05001519.hg.1 | ENSG00000113273 | 0.6095706 | 0.9162838 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.6153474 | 0.9162838 | FALSE |
| TC01002847.hg.1 | ENSG00000117228 | 0.6259289 | 0.9214912 | FALSE |
| TC02001750.hg.1; | ENSG00000138061; | 0.6304133 | 0.9214912 | FALSE |
| TC19001220.hg.1; | ENSG00000141837; | 0.6353936 | 0.9214912 | FALSE |
| TC02002605.hg.1; | ENSG00000064989; | 0.636913 | 0.9214912 | FALSE |
| TC09000358.hg.1; | ENSG00000135069; | 0.6459559 | 0.9255479 | FALSE |
| TC01001473.hg.1; | ENSG00000143153; | 0.6487909 | 0.9255479 | FALSE |
| TC0X000207.hg.1 | ENSG00000189221; | 0.6644246 | 0.9412681 | FALSE |
| TC03000013.hg.1; | ENSG00000150995; | 0.6737554 | 0.9417541 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.6764135 | 0.9417541 | FALSE |
| TC18000552.hg.1 | ENSG00000197563 | 0.6848031 | 0.9417541 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.6857916 | 0.9417541 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.6878498 | 0.9417541 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.7042933 | 0.9578389 | FALSE |
| TC03001071.hg.1 | ENSG00000114315 | 0.7106761 | 0.9601187 | FALSE |
| TC04000408.hg.1; | ENSG00000169429; | 0.7324664 | 0.983047 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.7466015 | 0.9954687 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.756238 | 0.9999972 | FALSE |
| TC02000184.hg.1; | ENSG00000163803; | 0.7937541 | 0.9999972 | FALSE |
| TC01001607.hg.1 | ENSG00000116711 | 0.8032567 | 0.9999972 | FALSE |
| TC08000482.hg.1; | ENSG00000121039; | 0.8097263 | 0.9999972 | FALSE |
| TC01002284.hg.1; | ENSG00000117122; | 0.8260767 | 0.9999972 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.8295643 | 0.9999972 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.8327549 | 0.9999972 | FALSE |
| TC01001607.hg.1; | ENSG00000116711; | 0.8409307 | 0.9999972 | FALSE |
| TC11001132.hg.1 | ENSG00000110002 | 0.8412237 | 0.9999972 | FALSE |
| TC01000685.hg.1 | ENSG00000162409 | 0.8412237 | 0.9999972 | FALSE |
| TC09000222.hg.1; | ENSG00000137124; | 0.8536688 | 0.9999972 | FALSE |
| TC02000432.hg.1; | ENSG00000135636; | 0.8637991 | 0.9999972 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.8667901 | 0.9999972 | FALSE |
| TC07000220.hg.1; | ENSG00000164619; | 0.8835443 | 0.9999972 | FALSE |
| TC02000184.hg.1; | ENSG00000163803; | 0.8966996 | 0.9999972 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.9069193 | 0.9999972 | FALSE |
| TC07001898.hg.1 | ENSG00000182158 | 0.9166023 | 0.9999972 | FALSE |
| TC02000184.hg.1; | ENSG00000163803; | 0.9179061 | 0.9999972 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.9210981 | 0.9999972 | FALSE |

| | | | | |
|------------------|------------------|-----------|-----------|-------|
| TC09000202.hg.1; | ENSG00000122694; | 0.9234202 | 0.9999972 | FALSE |
| TC0X001176.hg.1 | ENSG00000187325 | 0.9266879 | 0.9999972 | FALSE |
| TC03000013.hg.1; | ENSG00000150995; | 0.9290561 | 0.9999972 | FALSE |
| TC02002765.hg.1; | ENSG00000079308; | 0.9400939 | 0.9999972 | FALSE |
| TC03000214.hg.1; | ENSG00000168036; | 0.9441861 | 0.9999972 | FALSE |
| TC12000531.hg.1 | ENSG00000166986 | 0.9480226 | 0.9999972 | FALSE |
| TC04001001.hg.1; | ENSG00000074211; | 0.9532856 | 0.9999972 | FALSE |
| TC11000404.hg.1 | ENSG00000134574 | 0.958082 | 0.9999972 | FALSE |
| TC07000137.hg.1 | ENSG00000136244 | 0.958082 | 0.9999972 | FALSE |
| TC04001001.hg.1 | ENSG00000074211 | 0.9738952 | 0.9999972 | FALSE |
| TC03000208.hg.1; | ENSG00000168032; | 0.9789948 | 0.9999972 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.9845502 | 0.9999972 | FALSE |
| TC01002284.hg.1; | ENSG00000117122; | 0.9845502 | 0.9999972 | FALSE |
| TC04000253.hg.1; | ENSG00000154277; | 0.9914308 | 0.9999972 | FALSE |
| TC06004141.hg.1 | ENSG00000112096 | 0.9931481 | 0.9999972 | FALSE |
| TC01002616.hg.1; | ENSG00000117461; | 0.9945281 | 0.9999972 | FALSE |
| TC12000099.hg.1 | ENSG00000111674 | 0.9955535 | 0.9999972 | FALSE |
| TC01002725.hg.1; | ENSG00000132854; | 0.9968736 | 0.9999972 | FALSE |
| TC02001100.hg.1; | ENSG00000138448; | 0.9973809 | 0.9999972 | FALSE |
| TC12001622.hg.1 | ENSG00000185633 | 0.9979606 | 0.9999972 | FALSE |
| TC01001805.hg.1; | ENSG00000092969; | 0.9984299 | 0.9999972 | FALSE |
| TC01001736.hg.1; | ENSG00000196352; | 0.9984673 | 0.9999972 | FALSE |
| TC05001271.hg.1; | ENSG00000164188; | 0.9986078 | 0.9999972 | FALSE |
| TC06000408.hg.1; | ENSG00000223865; | 0.998848 | 0.9999972 | FALSE |
| TC0Y000351.hg.1 | ENSG00000129824 | 0.9988889 | 0.9999972 | FALSE |
| TC04000643.hg.1; | ENSG00000164070; | 0.999034 | 0.9999972 | FALSE |
| TC01003172.hg.1; | ENSG00000203818; | 0.9997019 | 0.9999972 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9998624 | 0.9999972 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.999945 | 0.9999972 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9999876 | 0.9999972 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9999923 | 0.9999972 | FALSE |
| TC06000408.hg.1 | ENSG00000223865 | 0.9999972 | 0.9999972 | FALSE |

| Transcript Cluster | Splicing Index | PSR/Junction ID | Gene Symbol |
|--------------------|----------------|------------------|-------------|
| TC02001616.hg.1 | 352.89 | PSR02025915.hg.1 | LAPTM4A |
| TC02001616.hg.1 | -3.84 | JUC02013480.hg.1 | LAPTM4A |
| TC01002980.hg.1 | 159.1 | JUC01024887.hg.1 | DRAM2 |
| TC01002980.hg.1 | 12.18 | JUC01024882.hg.1 | DRAM2 |
| TC01002980.hg.1 | 5.02 | JUC01024886.hg.1 | DRAM2 |
| TC01002980.hg.1 | 4.16 | PSR01046254.hg.1 | DRAM2 |
| TC01002980.hg.1 | -4.21 | JUC01024866.hg.1 | DRAM2 |
| TC01002980.hg.1 | -4.66 | JUC01024864.hg.1 | DRAM2 |
| TC01002980.hg.1 | -7.17 | JUC01024868.hg.1 | DRAM2 |
| TC17000371.hg.1 | 94.15 | PSR17004672.hg.1 | LRRC37B |
| TC17000371.hg.1 | 2.41 | JUC17002672.hg.1 | LRRC37B |
| TC17000371.hg.1 | -2.16 | JUC17002669.hg.1 | LRRC37B |
| TC18000239.hg.1 | 75.39 | JUC18001901.hg.1 | CCDC102B |
| TC18000239.hg.1 | 27.58 | PSR18002816.hg.1 | CCDC102B |
| TC18000239.hg.1 | 16.81 | JUC18001900.hg.1 | CCDC102B |
| TC18000239.hg.1 | 15.44 | PSR18002819.hg.1 | CCDC102B |
| TC18000239.hg.1 | 14.68 | PSR18002814.hg.1 | CCDC102B |
| TC18000239.hg.1 | 14.3 | PSR18002834.hg.1 | CCDC102B |
| TC18000239.hg.1 | 12.26 | PSR18002813.hg.1 | CCDC102B |
| TC18000239.hg.1 | 10.74 | PSR18002817.hg.1 | CCDC102B |
| TC18000239.hg.1 | 8.73 | JUC18001903.hg.1 | CCDC102B |
| TC18000239.hg.1 | 7.41 | JUC18001899.hg.1 | CCDC102B |
| TC18000239.hg.1 | 5.33 | PSR18002830.hg.1 | CCDC102B |
| TC18000239.hg.1 | 4.44 | PSR18002818.hg.1 | CCDC102B |
| TC18000239.hg.1 | 4.1 | JUC18001907.hg.1 | CCDC102B |
| TC18000239.hg.1 | 3.61 | PSR18002820.hg.1 | CCDC102B |
| TC18000239.hg.1 | 3.45 | JUC18001913.hg.1 | CCDC102B |
| TC18000239.hg.1 | 2.32 | PSR18002821.hg.1 | CCDC102B |
| TC18000239.hg.1 | -2.35 | JUC18001906.hg.1 | CCDC102B |
| TC18000239.hg.1 | -2.36 | JUC18001908.hg.1 | CCDC102B |
| TC03000214.hg.1 | 60.47 | JUC03002262.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 4.21 | PSR03004264.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 3.71 | PSR03004296.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 3.27 | PSR03004299.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 3.27 | JUC03002273.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 3.23 | PSR03004311.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 2.76 | PSR03004298.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 2.49 | JUC03002263.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 2.19 | JUC03002271.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 2.16 | JUC03002282.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 2.14 | JUC03002275.hg.1 | CTNNB1 |
| TC03000214.hg.1 | 2.06 | PSR03004265.hg.1 | CTNNB1 |
| TC03000214.hg.1 | -2.9 | JUC03002269.hg.1 | CTNNB1 |
| TC03000214.hg.1 | -3.1 | PSR03004261.hg.1 | CTNNB1 |
| TC03000214.hg.1 | -3.23 | PSR03004254.hg.1 | CTNNB1 |
| TC03000214.hg.1 | -3.5 | JUC03002264.hg.1 | CTNNB1 |
| TC03000214.hg.1 | -3.69 | PSR03004316.hg.1 | CTNNB1 |
| TC14001022.hg.1 | 58.92 | JUC14005823.hg.1 | EGLN3 |
| TC14001022.hg.1 | 36.08 | PSR14011679.hg.1 | EGLN3 |
| TC14001022.hg.1 | 31.52 | JUC14005824.hg.1 | EGLN3 |
| TC14001022.hg.1 | 28.29 | PSR14011681.hg.1 | EGLN3 |
| TC14001022.hg.1 | 21.36 | PSR14011673.hg.1 | EGLN3 |
| TC14001022.hg.1 | 13.34 | PSR14011672.hg.1 | EGLN3 |
| TC14001022.hg.1 | 9.86 | PSR14011658.hg.1 | EGLN3 |
| TC14001022.hg.1 | 4.98 | JUC14005825.hg.1 | EGLN3 |
| TC14001022.hg.1 | 4.17 | PSR14011668.hg.1 | EGLN3 |
| TC14001022.hg.1 | 4.04 | PSR14011669.hg.1 | EGLN3 |

| | | | |
|-----------------|--------|------------------|--------|
| TC14001022.hg.1 | 2.48 | PSR14011670.hg.1 | EGLN3 |
| TC14001022.hg.1 | 2.19 | PSR14011660.hg.1 | EGLN3 |
| TC14001022.hg.1 | 2.06 | PSR14011659.hg.1 | EGLN3 |
| TC14001022.hg.1 | -2.06 | PSR14011662.hg.1 | EGLN3 |
| TC14001022.hg.1 | -2.3 | JUC14005834.hg.1 | EGLN3 |
| TC14001022.hg.1 | -2.66 | PSR14011664.hg.1 | EGLN3 |
| TC14001022.hg.1 | -2.79 | PSR14011663.hg.1 | EGLN3 |
| TC14001022.hg.1 | -3.38 | PSR14011666.hg.1 | EGLN3 |
| TC14001022.hg.1 | -4.28 | JUC14005831.hg.1 | EGLN3 |
| TC14001022.hg.1 | -9.09 | JUC14005828.hg.1 | EGLN3 |
| TC11002084.hg.1 | 54.03 | JUC11013212.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 22.76 | JUC11013201.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 14.72 | PSR11024992.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 13.75 | JUC11013199.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 11.08 | PSR11024998.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 9.71 | PSR11025005.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 8.37 | PSR11025000.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 3.14 | PSR11025011.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 2.44 | PSR11025006.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 2.1 | PSR11025007.hg.1 | CHRDL2 |
| TC11002084.hg.1 | 2.07 | PSR11024993.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -2.2 | PSR11024995.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -3.03 | PSR11024991.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -4.04 | PSR11024999.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -4.45 | JUC11013202.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -4.49 | JUC11013204.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -4.57 | JUC11013200.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -4.61 | JUC11013197.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -5.57 | JUC11013210.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -7.27 | JUC11013203.hg.1 | CHRDL2 |
| TC11002084.hg.1 | -11.26 | JUC11013205.hg.1 | CHRDL2 |
| TC09000388.hg.1 | 50.28 | JUC09002263.hg.1 | NTRK2 |
| TC09000388.hg.1 | 46.64 | PSR09004159.hg.1 | NTRK2 |
| TC09000388.hg.1 | 39.67 | PSR09004128.hg.1 | NTRK2 |
| TC09000388.hg.1 | 35.42 | JUC09002271.hg.1 | NTRK2 |
| TC09000388.hg.1 | 35.21 | PSR09004158.hg.1 | NTRK2 |
| TC09000388.hg.1 | 33.98 | PSR09004137.hg.1 | NTRK2 |
| TC09000388.hg.1 | 32.8 | PSR09004130.hg.1 | NTRK2 |
| TC09000388.hg.1 | 29.95 | PSR09004163.hg.1 | NTRK2 |
| TC09000388.hg.1 | 29 | JUC09002274.hg.1 | NTRK2 |
| TC09000388.hg.1 | 28.05 | PSR09004132.hg.1 | NTRK2 |
| TC09000388.hg.1 | 25.84 | PSR09004131.hg.1 | NTRK2 |
| TC09000388.hg.1 | 25.25 | PSR09004155.hg.1 | NTRK2 |
| TC09000388.hg.1 | 25.01 | PSR09004161.hg.1 | NTRK2 |
| TC09000388.hg.1 | 23.49 | PSR09004162.hg.1 | NTRK2 |
| TC09000388.hg.1 | 21.93 | PSR09004156.hg.1 | NTRK2 |
| TC09000388.hg.1 | 21.31 | JUC09002277.hg.1 | NTRK2 |
| TC09000388.hg.1 | 19.19 | PSR09004154.hg.1 | NTRK2 |
| TC09000388.hg.1 | 17.47 | JUC09002272.hg.1 | NTRK2 |
| TC09000388.hg.1 | 16.24 | JUC09002266.hg.1 | NTRK2 |
| TC09000388.hg.1 | 12.79 | PSR09004151.hg.1 | NTRK2 |
| TC09000388.hg.1 | 12.31 | PSR09004146.hg.1 | NTRK2 |
| TC09000388.hg.1 | 9.63 | JUC09002256.hg.1 | NTRK2 |
| TC09000388.hg.1 | 7.31 | JUC09002257.hg.1 | NTRK2 |
| TC09000388.hg.1 | 7.07 | PSR09004129.hg.1 | NTRK2 |
| TC09000388.hg.1 | 4.74 | PSR09004135.hg.1 | NTRK2 |
| TC09000388.hg.1 | 3.99 | JUC09002270.hg.1 | NTRK2 |
| TC09000388.hg.1 | 3.13 | PSR09004147.hg.1 | NTRK2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC09000388.hg.1 | 2.39 | PSR09004150.hg.1 | NTRK2 |
| TC09000388.hg.1 | -2.07 | PSR09004143.hg.1 | NTRK2 |
| TC09000388.hg.1 | -2.1 | JUC09002275.hg.1 | NTRK2 |
| TC09000388.hg.1 | -2.18 | PSR09004142.hg.1 | NTRK2 |
| TC09000388.hg.1 | -4.4 | JUC09002254.hg.1 | NTRK2 |
| TC09000388.hg.1 | -4.41 | JUC09002265.hg.1 | NTRK2 |
| TC09000388.hg.1 | -5.22 | PSR09004139.hg.1 | NTRK2 |
| TC09000388.hg.1 | -7.79 | JUC09002255.hg.1 | NTRK2 |
| TC09000388.hg.1 | -9.32 | JUC09002253.hg.1 | NTRK2 |
| TC05000394.hg.1 | 43.13 | JUC05003038.hg.1 | THBS4 |
| TC05000394.hg.1 | 33.3 | JUC05003027.hg.1 | THBS4 |
| TC05000394.hg.1 | 6.97 | JUC05003021.hg.1 | THBS4 |
| TC05000394.hg.1 | 6.8 | JUC05003012.hg.1 | THBS4 |
| TC05000394.hg.1 | 6.42 | JUC05003011.hg.1 | THBS4 |
| TC05000394.hg.1 | 2.34 | PSR05005595.hg.1 | THBS4 |
| TC05000394.hg.1 | -2.08 | JUC05003041.hg.1 | THBS4 |
| TC11002235.hg.1 | 41.07 | PSR11026723.hg.1 | MMP3 |
| TC11002235.hg.1 | 32.66 | JUC11014228.hg.1 | MMP3 |
| TC11002235.hg.1 | 31.17 | PSR11026709.hg.1 | MMP3 |
| TC11002235.hg.1 | 25.63 | JUC11014227.hg.1 | MMP3 |
| TC11002235.hg.1 | 21.17 | JUC11014222.hg.1 | MMP3 |
| TC11002235.hg.1 | 16.21 | PSR11026704.hg.1 | MMP3 |
| TC11002235.hg.1 | 13.49 | PSR11026702.hg.1 | MMP3 |
| TC11002235.hg.1 | 4.53 | JUC11014230.hg.1 | MMP3 |
| TC11002235.hg.1 | 2.42 | PSR11026713.hg.1 | MMP3 |
| TC11002235.hg.1 | -2.09 | JUC11014225.hg.1 | MMP3 |
| TC11002235.hg.1 | -2.24 | JUC11014220.hg.1 | MMP3 |
| TC04001084.hg.1 | 41.02 | JUC04007928.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 36.61 | JUC04007926.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 22.3 | JUC04007929.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 21.93 | PSR04014895.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 21.34 | JUC04007930.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 21.15 | PSR04014913.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 18.79 | JUC04007945.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 18.64 | PSR04014887.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 18 | PSR04014881.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 15.87 | JUC04007939.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 15.3 | JUC04007942.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 15.12 | PSR04014896.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 14.09 | PSR04014892.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 13.99 | JUC04007943.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 12.95 | PSR04014897.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 12.53 | JUC04007937.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 12.44 | PSR04014898.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 11.72 | JUC04007927.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 11.61 | PSR04014865.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 10.27 | PSR04014875.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 8.54 | PSR04014899.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 7.69 | PSR04014879.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 5.72 | PSR04014905.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 5.15 | JUC04007924.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 4.99 | PSR04014886.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 4.44 | PSR04014873.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 3.4 | PSR04014880.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 3.32 | PSR04014904.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 3.07 | JUC04007933.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 2.44 | PSR04014911.hg.1 | PPARGC1A |
| TC04001084.hg.1 | 2.34 | PSR04014877.hg.1 | PPARGC1A |

| | | | |
|-----------------|-------|------------------|----------|
| TC04001084.hg.1 | 2 | PSR04014882.hg.1 | PPARGC1A |
| TC04001084.hg.1 | -2.2 | JUC04007922.hg.1 | PPARGC1A |
| TC07000852.hg.1 | 40.31 | PSR07013412.hg.1 | CHRM2 |
| TC07000852.hg.1 | 34.13 | JUC07006418.hg.1 | CHRM2 |
| TC07000852.hg.1 | 32.62 | PSR07013408.hg.1 | CHRM2 |
| TC07000852.hg.1 | 29.54 | JUC07006416.hg.1 | CHRM2 |
| TC07000852.hg.1 | 26.19 | PSR07013413.hg.1 | CHRM2 |
| TC07000852.hg.1 | 22.33 | PSR07013415.hg.1 | CHRM2 |
| TC07000852.hg.1 | 15.28 | PSR07013411.hg.1 | CHRM2 |
| TC07000852.hg.1 | 14.46 | PSR07013414.hg.1 | CHRM2 |
| TC07000852.hg.1 | 10.42 | JUC07006421.hg.1 | CHRM2 |
| TC07000852.hg.1 | 5.65 | JUC07006423.hg.1 | CHRM2 |
| TC07000852.hg.1 | 5.54 | JUC07006424.hg.1 | CHRM2 |
| TC07000852.hg.1 | 3.66 | PSR07013405.hg.1 | CHRM2 |
| TC07000852.hg.1 | 3.31 | PSR07013404.hg.1 | CHRM2 |
| TC07000852.hg.1 | 2.33 | JUC07006422.hg.1 | CHRM2 |
| TC07000852.hg.1 | -2.89 | PSR07013417.hg.1 | CHRM2 |
| TC03001884.hg.1 | 34.24 | JUC03016874.hg.1 | CP |
| TC03001884.hg.1 | 33.66 | JUC03016880.hg.1 | CP |
| TC03001884.hg.1 | 29.99 | JUC03016868.hg.1 | CP |
| TC03001884.hg.1 | 20.8 | PSR03033932.hg.1 | CP |
| TC03001884.hg.1 | 20.49 | PSR03033946.hg.1 | CP |
| TC03001884.hg.1 | 12.84 | JUC03016888.hg.1 | CP |
| TC03001884.hg.1 | 9.86 | JUC03016870.hg.1 | CP |
| TC03001884.hg.1 | 8.84 | PSR03033980.hg.1 | CP |
| TC03001884.hg.1 | 8.78 | PSR03033934.hg.1 | CP |
| TC03001884.hg.1 | 8.56 | PSR03033933.hg.1 | CP |
| TC03001884.hg.1 | 8.02 | JUC03016866.hg.1 | CP |
| TC03001884.hg.1 | 7.11 | PSR03033984.hg.1 | CP |
| TC03001884.hg.1 | 5.6 | PSR03033962.hg.1 | CP |
| TC03001884.hg.1 | 5.56 | PSR03033953.hg.1 | CP |
| TC03001884.hg.1 | 5.46 | PSR03033970.hg.1 | CP |
| TC03001884.hg.1 | 5.1 | JUC03016890.hg.1 | CP |
| TC03001884.hg.1 | 4.98 | PSR03033952.hg.1 | CP |
| TC03001884.hg.1 | 2.83 | JUC03016882.hg.1 | CP |
| TC03001884.hg.1 | 2.49 | JUC03016876.hg.1 | CP |
| TC03001884.hg.1 | 2.2 | JUC03016867.hg.1 | CP |
| TC03001884.hg.1 | 2.16 | PSR03033956.hg.1 | CP |
| TC03001884.hg.1 | 2.14 | PSR03033960.hg.1 | CP |
| TC03001884.hg.1 | 2 | JUC03016881.hg.1 | CP |
| TC03001884.hg.1 | -2.15 | PSR03033964.hg.1 | CP |
| TC03001884.hg.1 | -2.35 | PSR03033950.hg.1 | CP |
| TC03001884.hg.1 | -2.42 | PSR03033966.hg.1 | CP |
| TC03001884.hg.1 | -2.45 | PSR03033944.hg.1 | CP |
| TC03001884.hg.1 | -3.22 | JUC03016884.hg.1 | CP |
| TC07000261.hg.1 | 33.91 | JUC07001943.hg.1 | HECW1 |
| TC07000261.hg.1 | 16.27 | JUC07001934.hg.1 | HECW1 |
| TC07000261.hg.1 | 11.08 | PSR07003973.hg.1 | HECW1 |
| TC07000261.hg.1 | 10.64 | JUC07001924.hg.1 | HECW1 |
| TC07000261.hg.1 | 7.67 | JUC07001923.hg.1 | HECW1 |
| TC07000261.hg.1 | 6.73 | PSR07003974.hg.1 | HECW1 |
| TC07000261.hg.1 | 5.04 | JUC07001929.hg.1 | HECW1 |
| TC07000261.hg.1 | 3.75 | JUC07001937.hg.1 | HECW1 |
| TC07000261.hg.1 | 3.46 | JUC07001914.hg.1 | HECW1 |
| TC07000261.hg.1 | 3.4 | JUC07001935.hg.1 | HECW1 |
| TC07000261.hg.1 | 3.39 | PSR07004013.hg.1 | HECW1 |
| TC07000261.hg.1 | 3.38 | JUC07001911.hg.1 | HECW1 |
| TC07000261.hg.1 | 3.34 | PSR07004022.hg.1 | HECW1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC07000261.hg.1 | 3.25 | PSR07004025.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.84 | JUC07001947.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.76 | JUC07001927.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.72 | PSR07004008.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.64 | PSR07004010.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.51 | PSR07003972.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.51 | PSR07004017.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.46 | JUC07001932.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.24 | PSR07003987.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.22 | PSR07003969.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.21 | PSR07004005.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.18 | JUC07001930.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.13 | PSR07004003.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.11 | PSR07004001.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.09 | PSR07003999.hg.1 | HECW1 |
| TC07000261.hg.1 | 2.01 | PSR07004014.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.11 | JUC07001915.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.13 | JUC07001913.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.25 | PSR07003989.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.34 | PSR07003979.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.43 | PSR07004015.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.48 | JUC07001928.hg.1 | HECW1 |
| TC07000261.hg.1 | -2.52 | JUC07001950.hg.1 | HECW1 |
| TC12001622.hg.1 | 32.88 | PSR12021838.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 29.74 | JUC12012057.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 21.87 | PSR12021841.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 18.72 | PSR12021836.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 5.75 | JUC12012055.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 5.64 | PSR12021828.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 3.55 | PSR12021835.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 2.66 | PSR12021832.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | 2.37 | PSR12021830.hg.1 | NDUFA4L2 |
| TC12001622.hg.1 | -3.05 | JUC12012058.hg.1 | NDUFA4L2 |
| TC07000815.hg.1 | 31.18 | PSR07012856.hg.1 | MEST |
| TC07000815.hg.1 | 25.53 | PSR07012861.hg.1 | MEST |
| TC07000815.hg.1 | 21.81 | JUC07006103.hg.1 | MEST |
| TC07000815.hg.1 | 21.6 | PSR07012889.hg.1 | MEST |
| TC07000815.hg.1 | 21.48 | PSR07012862.hg.1 | MEST |
| TC07000815.hg.1 | 20.82 | PSR07012846.hg.1 | MEST |
| TC07000815.hg.1 | 20.8 | PSR07012857.hg.1 | MEST |
| TC07000815.hg.1 | 20.28 | PSR07012860.hg.1 | MEST |
| TC07000815.hg.1 | 17.82 | JUC07006105.hg.1 | MEST |
| TC07000815.hg.1 | 17.31 | JUC07006092.hg.1 | MEST |
| TC07000815.hg.1 | 16.8 | JUC07006110.hg.1 | MEST |
| TC07000815.hg.1 | 16.45 | JUC07006094.hg.1 | MEST |
| TC07000815.hg.1 | 16 | PSR07012863.hg.1 | MEST |
| TC07000815.hg.1 | 15.73 | JUC07006107.hg.1 | MEST |
| TC07000815.hg.1 | 15.69 | PSR07012883.hg.1 | MEST |
| TC07000815.hg.1 | 15.62 | PSR07012852.hg.1 | MEST |
| TC07000815.hg.1 | 14.48 | PSR07012892.hg.1 | MEST |
| TC07000815.hg.1 | 14.44 | PSR07012879.hg.1 | MEST |
| TC07000815.hg.1 | 13.21 | PSR07012847.hg.1 | MEST |
| TC07000815.hg.1 | 11.23 | JUC07006091.hg.1 | MEST |
| TC07000815.hg.1 | 6.69 | PSR07012875.hg.1 | MEST |
| TC07000815.hg.1 | 5.36 | JUC07006095.hg.1 | MEST |
| TC07000815.hg.1 | 5.1 | JUC07006101.hg.1 | MEST |
| TC07000815.hg.1 | 4.48 | PSR07012866.hg.1 | MEST |
| TC07000815.hg.1 | 2.17 | JUC07006102.hg.1 | MEST |

| | | | |
|-----------------|-------|------------------|---------|
| TC07000815.hg.1 | 2.02 | PSR07012884.hg.1 | MEST |
| TC07000815.hg.1 | -2.01 | PSR07012897.hg.1 | MEST |
| TC07000815.hg.1 | -2.03 | PSR07012870.hg.1 | MEST |
| TC07000815.hg.1 | -2.43 | JUC07006108.hg.1 | MEST |
| TC07000815.hg.1 | -2.52 | JUC07006086.hg.1 | MEST |
| TC07000815.hg.1 | -3.94 | JUC07006096.hg.1 | MEST |
| TC18000164.hg.1 | 30.46 | JUC18001343.hg.1 | SLC14A1 |
| TC18000164.hg.1 | 10.3 | JUC18001344.hg.1 | SLC14A1 |
| TC18000164.hg.1 | 4.83 | PSR18001904.hg.1 | SLC14A1 |
| TC18000164.hg.1 | 2.71 | PSR18001908.hg.1 | SLC14A1 |
| TC18000164.hg.1 | 2.53 | PSR18001909.hg.1 | SLC14A1 |
| TC09001533.hg.1 | 27.39 | JUC09010372.hg.1 | DBC1 |
| TC09001533.hg.1 | 8.01 | PSR09019143.hg.1 | DBC1 |
| TC09001533.hg.1 | 7.81 | PSR09019127.hg.1 | DBC1 |
| TC09001533.hg.1 | 4.03 | PSR09019129.hg.1 | DBC1 |
| TC09001533.hg.1 | 3.84 | JUC09010375.hg.1 | DBC1 |
| TC09001533.hg.1 | 2.41 | PSR09019142.hg.1 | DBC1 |
| TC09001533.hg.1 | 2.06 | JUC09010373.hg.1 | DBC1 |
| TC09001533.hg.1 | -3.29 | JUC09010371.hg.1 | DBC1 |
| TC09001533.hg.1 | -3.37 | JUC09010377.hg.1 | DBC1 |
| TC13000576.hg.1 | 26.18 | JUC13003856.hg.1 | POSTN |
| TC13000576.hg.1 | 4.65 | PSR13006602.hg.1 | POSTN |
| TC13000576.hg.1 | 3.95 | PSR13006607.hg.1 | POSTN |
| TC13000576.hg.1 | 3.17 | JUC13003844.hg.1 | POSTN |
| TC13000576.hg.1 | 2.72 | PSR13006629.hg.1 | POSTN |
| TC13000576.hg.1 | 2.63 | PSR13006600.hg.1 | POSTN |
| TC13000576.hg.1 | 2.48 | JUC13003855.hg.1 | POSTN |
| TC13000576.hg.1 | 2.45 | JUC13003846.hg.1 | POSTN |
| TC13000576.hg.1 | 2.34 | PSR13006595.hg.1 | POSTN |
| TC13000576.hg.1 | 2.29 | PSR13006594.hg.1 | POSTN |
| TC13000576.hg.1 | 2.24 | JUC13003850.hg.1 | POSTN |
| TC13000576.hg.1 | 2.12 | JUC13003862.hg.1 | POSTN |
| TC13000576.hg.1 | -2.02 | PSR13006604.hg.1 | POSTN |
| TC13000576.hg.1 | -2.28 | JUC13003842.hg.1 | POSTN |
| TC13000576.hg.1 | -2.53 | PSR13006606.hg.1 | POSTN |
| TC13000576.hg.1 | -2.59 | PSR13006598.hg.1 | POSTN |
| TC13000576.hg.1 | -7.66 | PSR13006635.hg.1 | POSTN |
| TC13000576.hg.1 | -7.79 | JUC13003859.hg.1 | POSTN |
| TC13000576.hg.1 | -8.44 | PSR13006593.hg.1 | POSTN |
| TC05001614.hg.1 | 25.85 | JUC05011357.hg.1 | PCSK1 |
| TC05001614.hg.1 | 14.22 | JUC05011367.hg.1 | PCSK1 |
| TC05001614.hg.1 | 12.63 | PSR05022045.hg.1 | PCSK1 |
| TC05001614.hg.1 | 11.73 | PSR05022020.hg.1 | PCSK1 |
| TC05001614.hg.1 | 11.38 | PSR05022043.hg.1 | PCSK1 |
| TC05001614.hg.1 | 10.18 | PSR05022042.hg.1 | PCSK1 |
| TC05001614.hg.1 | 9.62 | PSR05022039.hg.1 | PCSK1 |
| TC05001614.hg.1 | 9.09 | PSR05022032.hg.1 | PCSK1 |
| TC05001614.hg.1 | 8.16 | PSR05022041.hg.1 | PCSK1 |
| TC05001614.hg.1 | 7.43 | JUC05011365.hg.1 | PCSK1 |
| TC05001614.hg.1 | 6.91 | PSR05022038.hg.1 | PCSK1 |
| TC05001614.hg.1 | 6.59 | JUC05011355.hg.1 | PCSK1 |
| TC05001614.hg.1 | 6.19 | PSR05022029.hg.1 | PCSK1 |
| TC05001614.hg.1 | 3.5 | JUC05011361.hg.1 | PCSK1 |
| TC05001614.hg.1 | 2.92 | JUC05011363.hg.1 | PCSK1 |
| TC05001614.hg.1 | 2.53 | PSR05022036.hg.1 | PCSK1 |
| TC05001614.hg.1 | 2.48 | PSR05022034.hg.1 | PCSK1 |
| TC05001614.hg.1 | 2.35 | PSR05022030.hg.1 | PCSK1 |
| TC05001614.hg.1 | 2.35 | JUC05011369.hg.1 | PCSK1 |

| | | | |
|-----------------|-------|------------------|-------|
| TC05001614.hg.1 | 2.24 | JUC05011358.hg.1 | PCSK1 |
| TC05001614.hg.1 | -2.12 | JUC05011354.hg.1 | PCSK1 |
| TC05001614.hg.1 | -2.15 | PSR05022027.hg.1 | PCSK1 |
| TC05001614.hg.1 | -2.4 | PSR05022026.hg.1 | PCSK1 |
| TC05001614.hg.1 | -4.48 | JUC05011353.hg.1 | PCSK1 |
| TC08001062.hg.1 | 24.46 | JUC08006956.hg.1 | STC1 |
| TC08001062.hg.1 | 10.67 | PSR08013517.hg.1 | STC1 |
| TC08001062.hg.1 | 8.09 | JUC08006955.hg.1 | STC1 |
| TC08001062.hg.1 | 2.37 | PSR08013512.hg.1 | STC1 |
| TC08001062.hg.1 | -2.34 | PSR08013516.hg.1 | STC1 |
| TC08001062.hg.1 | -3 | JUC08006958.hg.1 | STC1 |
| TC08001062.hg.1 | -3 | JUC08006959.hg.1 | STC1 |
| TC09000560.hg.1 | 23.99 | JUC09003458.hg.1 | UGCG |
| TC09000560.hg.1 | 13.37 | PSR09006240.hg.1 | UGCG |
| TC09000560.hg.1 | 11.64 | PSR09006242.hg.1 | UGCG |
| TC09000560.hg.1 | 10.72 | PSR09006239.hg.1 | UGCG |
| TC09000560.hg.1 | 9.14 | PSR09006253.hg.1 | UGCG |
| TC09000560.hg.1 | 3.16 | JUC09003451.hg.1 | UGCG |
| TC09000560.hg.1 | 2.27 | PSR09006246.hg.1 | UGCG |
| TC09000560.hg.1 | 2.22 | PSR09006247.hg.1 | UGCG |
| TC09000560.hg.1 | -2.32 | JUC09003455.hg.1 | UGCG |
| TC02002747.hg.1 | 22.83 | PSR02044128.hg.1 | FN1 |
| TC02002747.hg.1 | 21.37 | PSR02044122.hg.1 | FN1 |
| TC02002747.hg.1 | 20.45 | PSR02044190.hg.1 | FN1 |
| TC02002747.hg.1 | 20.3 | PSR02044115.hg.1 | FN1 |
| TC02002747.hg.1 | 19.89 | PSR02044168.hg.1 | FN1 |
| TC02002747.hg.1 | 19.24 | PSR02044182.hg.1 | FN1 |
| TC02002747.hg.1 | 18.9 | PSR02044123.hg.1 | FN1 |
| TC02002747.hg.1 | 18.38 | PSR02044185.hg.1 | FN1 |
| TC02002747.hg.1 | 17.73 | PSR02044151.hg.1 | FN1 |
| TC02002747.hg.1 | 17.56 | PSR02044152.hg.1 | FN1 |
| TC02002747.hg.1 | 15.93 | PSR02044165.hg.1 | FN1 |
| TC02002747.hg.1 | 15.79 | PSR02044157.hg.1 | FN1 |
| TC02002747.hg.1 | 14.91 | PSR02044164.hg.1 | FN1 |
| TC02002747.hg.1 | 14.18 | PSR02044146.hg.1 | FN1 |
| TC02002747.hg.1 | 13.29 | PSR02044148.hg.1 | FN1 |
| TC02002747.hg.1 | 12.86 | PSR02044150.hg.1 | FN1 |
| TC02002747.hg.1 | 12.81 | PSR02044117.hg.1 | FN1 |
| TC02002747.hg.1 | 12.24 | PSR02044149.hg.1 | FN1 |
| TC02002747.hg.1 | 11.27 | PSR02044134.hg.1 | FN1 |
| TC02002747.hg.1 | 11.01 | PSR02044129.hg.1 | FN1 |
| TC02002747.hg.1 | 10.01 | PSR02044116.hg.1 | FN1 |
| TC02002747.hg.1 | 8.91 | PSR02044135.hg.1 | FN1 |
| TC02002747.hg.1 | 5.59 | PSR02044121.hg.1 | FN1 |
| TC02002747.hg.1 | 4.32 | JUC02023158.hg.1 | FN1 |
| TC02002747.hg.1 | 4.31 | PSR02044108.hg.1 | FN1 |
| TC02002747.hg.1 | 3.16 | PSR02044126.hg.1 | FN1 |
| TC02002747.hg.1 | 2.69 | JUC02023167.hg.1 | FN1 |
| TC02002747.hg.1 | 2.64 | JUC02023178.hg.1 | FN1 |
| TC02002747.hg.1 | 2.31 | JUC02023171.hg.1 | FN1 |
| TC02002747.hg.1 | 2.22 | JUC02023201.hg.1 | FN1 |
| TC02002747.hg.1 | 2.21 | PSR02044127.hg.1 | FN1 |
| TC02002747.hg.1 | 2.2 | PSR02044200.hg.1 | FN1 |
| TC02002747.hg.1 | 2.04 | PSR02044131.hg.1 | FN1 |
| TC6_mcf_hap5000 | 22.29 | PSR6_mcf_hap5000 | HLA-A |
| TC6_mcf_hap5000 | 5.09 | PSR6_mcf_hap5000 | HLA-A |
| TC6_mcf_hap5000 | 3.33 | PSR6_mcf_hap5000 | HLA-A |
| TC6_mcf_hap5000 | 2.72 | PSR6_mcf_hap5000 | HLA-A |

| | | | |
|-----------------|-------|-------------------|--------|
| TC6_mcf_hap5000 | 2.71 | JUC6_mcf_hap50017 | HLA-A |
| TC6_mcf_hap5000 | 2.21 | PSR6_mcf_hap5000 | HLA-A |
| TC6_mcf_hap5000 | 2.14 | JUC6_mcf_hap50017 | HLA-A |
| TC6_mcf_hap5000 | -4.21 | JUC6_mcf_hap50017 | HLA-A |
| TC01000733.hg.1 | 21.68 | PSR01011722.hg.1 | PDE4B |
| TC01000733.hg.1 | 16.45 | JUC01006093.hg.1 | PDE4B |
| TC01000733.hg.1 | 16.34 | PSR01011733.hg.1 | PDE4B |
| TC01000733.hg.1 | 16.1 | PSR01011723.hg.1 | PDE4B |
| TC01000733.hg.1 | 15.77 | JUC01006078.hg.1 | PDE4B |
| TC01000733.hg.1 | 13.55 | PSR01011734.hg.1 | PDE4B |
| TC01000733.hg.1 | 12.27 | PSR01011727.hg.1 | PDE4B |
| TC01000733.hg.1 | 10.51 | PSR01011735.hg.1 | PDE4B |
| TC01000733.hg.1 | 10.28 | PSR01011726.hg.1 | PDE4B |
| TC01000733.hg.1 | 10.11 | JUC01006077.hg.1 | PDE4B |
| TC01000733.hg.1 | 9.64 | JUC01006080.hg.1 | PDE4B |
| TC01000733.hg.1 | 9.37 | JUC01006088.hg.1 | PDE4B |
| TC01000733.hg.1 | 9.26 | JUC01006075.hg.1 | PDE4B |
| TC01000733.hg.1 | 9.21 | PSR01011724.hg.1 | PDE4B |
| TC01000733.hg.1 | 8.83 | JUC01006079.hg.1 | PDE4B |
| TC01000733.hg.1 | 8.81 | PSR01011725.hg.1 | PDE4B |
| TC01000733.hg.1 | 8.38 | PSR01011736.hg.1 | PDE4B |
| TC01000733.hg.1 | 7.84 | PSR01011721.hg.1 | PDE4B |
| TC01000733.hg.1 | 7.04 | PSR01011737.hg.1 | PDE4B |
| TC01000733.hg.1 | 5.58 | PSR01011743.hg.1 | PDE4B |
| TC01000733.hg.1 | 4.75 | PSR01011757.hg.1 | PDE4B |
| TC01000733.hg.1 | 4.15 | PSR01011744.hg.1 | PDE4B |
| TC01000733.hg.1 | 3.8 | PSR01011761.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.13 | PSR01011746.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.27 | PSR01011741.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.39 | PSR01011739.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.41 | JUC01006092.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.56 | JUC01006082.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.74 | JUC01006083.hg.1 | PDE4B |
| TC01000733.hg.1 | -2.75 | JUC01006097.hg.1 | PDE4B |
| TC01000733.hg.1 | -3.19 | JUC01006091.hg.1 | PDE4B |
| TC03001459.hg.1 | 21.46 | JUC03012921.hg.1 | GLT8D1 |
| TC03001459.hg.1 | 2.05 | PSR03026478.hg.1 | GLT8D1 |
| TC6_dbb_hap3000 | 21.22 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 4.84 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 3.17 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 2.59 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 2.58 | JUC6_dbb_hap30016 | HLA-A |
| TC6_dbb_hap3000 | 2.33 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 2.1 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 2.06 | PSR6_dbb_hap3000 | HLA-A |
| TC6_dbb_hap3000 | 2.04 | JUC6_dbb_hap30016 | HLA-A |
| TC6_dbb_hap3000 | -4.42 | JUC6_dbb_hap30016 | HLA-A |
| TC13000563.hg.1 | 20.81 | JUC13003717.hg.1 | DCLK1 |
| TC13000563.hg.1 | 11.33 | PSR13006338.hg.1 | DCLK1 |
| TC13000563.hg.1 | 6.29 | PSR13006349.hg.1 | DCLK1 |
| TC13000563.hg.1 | 4.07 | JUC13003732.hg.1 | DCLK1 |
| TC13000563.hg.1 | 3.78 | PSR13006350.hg.1 | DCLK1 |
| TC13000563.hg.1 | 3.38 | JUC13003735.hg.1 | DCLK1 |
| TC13000563.hg.1 | 2.25 | JUC13003741.hg.1 | DCLK1 |
| TC13000563.hg.1 | 2.14 | JUC13003738.hg.1 | DCLK1 |
| TC13000563.hg.1 | 2.11 | PSR13006341.hg.1 | DCLK1 |
| TC13000563.hg.1 | 2.08 | PSR13006342.hg.1 | DCLK1 |
| TC13000563.hg.1 | 2.02 | PSR13006348.hg.1 | DCLK1 |

| | | | |
|-----------------|-------|------------------|-----|
| TC0Y000163.hg.1 | 20.73 | JUC0Y001069.hg.1 | UTY |
| TC0Y000163.hg.1 | 11.86 | JUC0Y000994.hg.1 | UTY |
| TC0Y000163.hg.1 | 6.08 | PSR0Y001638.hg.1 | UTY |
| TC0Y000163.hg.1 | 5.71 | PSR0Y001641.hg.1 | UTY |
| TC0Y000163.hg.1 | 5.62 | PSR0Y001637.hg.1 | UTY |
| TC0Y000163.hg.1 | 4.14 | JUC0Y001001.hg.1 | UTY |
| TC0Y000163.hg.1 | 3.95 | PSR0Y001645.hg.1 | UTY |
| TC0Y000163.hg.1 | 3.55 | PSR0Y001647.hg.1 | UTY |
| TC0Y000163.hg.1 | 3.53 | JUC0Y001064.hg.1 | UTY |
| TC0Y000163.hg.1 | 2.6 | PSR0Y001635.hg.1 | UTY |
| TC0Y000163.hg.1 | 2.21 | JUC0Y001041.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.01 | JUC0Y001059.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.04 | PSR0Y001636.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.16 | PSR0Y001634.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.19 | JUC0Y001013.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.25 | JUC0Y001009.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.26 | PSR0Y001624.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.29 | JUC0Y000999.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.31 | PSR0Y001621.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.34 | PSR0Y001632.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.4 | PSR0Y001648.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.46 | PSR0Y001674.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.46 | JUC0Y001050.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.47 | PSR0Y001626.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.48 | PSR0Y001666.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.51 | PSR0Y001669.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.68 | PSR0Y001616.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.78 | PSR0Y001682.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.86 | PSR0Y001670.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.9 | PSR0Y001617.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.96 | JUC0Y001088.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.97 | PSR0Y001619.hg.1 | UTY |
| TC0Y000163.hg.1 | -2.99 | JUC0Y001023.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.04 | JUC0Y001063.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.15 | JUC0Y001081.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.38 | PSR0Y001650.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.39 | PSR0Y001685.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.41 | PSR0Y001679.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.45 | JUC0Y001040.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.47 | PSR0Y001676.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.59 | PSR0Y001663.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.71 | PSR0Y001654.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.71 | PSR0Y001665.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.74 | PSR0Y001620.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.78 | JUC0Y001042.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.87 | PSR0Y001656.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.88 | JUC0Y001077.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.93 | PSR0Y001678.hg.1 | UTY |
| TC0Y000163.hg.1 | -3.93 | PSR0Y001681.hg.1 | UTY |
| TC0Y000163.hg.1 | -4 | JUC0Y001016.hg.1 | UTY |
| TC0Y000163.hg.1 | -4.03 | PSR0Y001671.hg.1 | UTY |
| TC0Y000163.hg.1 | -4.26 | JUC0Y001047.hg.1 | UTY |
| TC0Y000163.hg.1 | -4.36 | PSR0Y001668.hg.1 | UTY |
| TC0Y000163.hg.1 | -4.43 | JUC0Y000990.hg.1 | UTY |
| TC0Y000163.hg.1 | -4.59 | JUC0Y001027.hg.1 | UTY |
| TC0Y000163.hg.1 | -5.03 | JUC0Y001038.hg.1 | UTY |
| TC0Y000163.hg.1 | -5.19 | JUC0Y001039.hg.1 | UTY |
| TC0Y000163.hg.1 | -5.21 | JUC0Y001035.hg.1 | UTY |

| | | | |
|-----------------|--------|------------------|---------|
| TC0Y000163.hg.1 | -5.41 | JUC0Y001074.hg.1 | UTY |
| TC0Y000163.hg.1 | -5.55 | PSR0Y001653.hg.1 | UTY |
| TC0Y000163.hg.1 | -5.56 | PSR0Y001680.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.22 | PSR0Y001630.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.22 | JUC0Y001036.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.32 | PSR0Y001675.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.34 | JUC0Y000998.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.42 | PSR0Y001657.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.43 | JUC0Y001054.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.5 | PSR0Y001659.hg.1 | UTY |
| TC0Y000163.hg.1 | -6.9 | PSR0Y001633.hg.1 | UTY |
| TC0Y000163.hg.1 | -7.05 | PSR0Y001677.hg.1 | UTY |
| TC0Y000163.hg.1 | -7.3 | JUC0Y001072.hg.1 | UTY |
| TC0Y000163.hg.1 | -7.33 | JUC0Y001003.hg.1 | UTY |
| TC0Y000163.hg.1 | -7.79 | JUC0Y001037.hg.1 | UTY |
| TC0Y000163.hg.1 | -8.4 | JUC0Y001026.hg.1 | UTY |
| TC0Y000163.hg.1 | -8.56 | JUC0Y001031.hg.1 | UTY |
| TC0Y000163.hg.1 | -8.85 | JUC0Y001057.hg.1 | UTY |
| TC0Y000163.hg.1 | -9.01 | JUC0Y001052.hg.1 | UTY |
| TC0Y000163.hg.1 | -9.15 | JUC0Y001067.hg.1 | UTY |
| TC0Y000163.hg.1 | -9.53 | JUC0Y001049.hg.1 | UTY |
| TC0Y000163.hg.1 | -10.76 | JUC0Y001062.hg.1 | UTY |
| TC0Y000163.hg.1 | -11.68 | JUC0Y000996.hg.1 | UTY |
| TC0Y000163.hg.1 | -13.93 | JUC0Y000995.hg.1 | UTY |
| TC08000531.hg.1 | 20.49 | PSR08007210.hg.1 | CA2 |
| TC08000531.hg.1 | 19.71 | PSR08007200.hg.1 | CA2 |
| TC08000531.hg.1 | 16.18 | PSR08007208.hg.1 | CA2 |
| TC08000531.hg.1 | 13.45 | JUC08003565.hg.1 | CA2 |
| TC08000531.hg.1 | 9.6 | JUC08003560.hg.1 | CA2 |
| TC08000531.hg.1 | 7.8 | PSR08007204.hg.1 | CA2 |
| TC08000531.hg.1 | 7.52 | PSR08007218.hg.1 | CA2 |
| TC08000531.hg.1 | 5.98 | JUC08003562.hg.1 | CA2 |
| TC08000531.hg.1 | 2.43 | PSR08007205.hg.1 | CA2 |
| TC08000531.hg.1 | 2.04 | JUC08003561.hg.1 | CA2 |
| TC08000531.hg.1 | -3.14 | JUC08003564.hg.1 | CA2 |
| TC08000531.hg.1 | -4.25 | PSR08007212.hg.1 | CA2 |
| TC03002106.hg.1 | 20.26 | PSR03037284.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 15.77 | PSR03037252.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 14.36 | PSR03037273.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 13.92 | PSR03037285.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 12.88 | PSR03037266.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 9.33 | PSR03037282.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 5.52 | PSR03037283.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 5.47 | PSR03037277.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 4.61 | JUC03018433.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 4.56 | PSR03037268.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 3.97 | PSR03037262.hg.1 | LEPREL1 |
| TC03002106.hg.1 | 3.84 | JUC03018423.hg.1 | LEPREL1 |
| TC03002106.hg.1 | -2.12 | JUC03018420.hg.1 | LEPREL1 |
| TC03002106.hg.1 | -2.53 | JUC03018434.hg.1 | LEPREL1 |
| TC10000053.hg.1 | 20.02 | JUC10000311.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 8.92 | JUC10000316.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 7.95 | PSR10000608.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 7.94 | PSR10000620.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 6.68 | PSR10000634.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 6.29 | PSR10000601.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 5.77 | PSR10000631.hg.1 | PFKFB3 |
| TC10000053.hg.1 | 5.63 | PSR10000626.hg.1 | PFKFB3 |

| | | | |
|-----------------|-------|------------------|--------|
| TC1000053.hg.1 | 5.45 | JUC10000335.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 5.31 | JUC10000324.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 4.97 | PSR10000611.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 4.11 | JUC10000309.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 3.9 | JUC10000307.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 2.97 | JUC10000323.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 2.77 | JUC10000325.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 2.44 | PSR10000639.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 2.03 | PSR10000638.hg.1 | PFKFB3 |
| TC1000053.hg.1 | 2.02 | JUC10000320.hg.1 | PFKFB3 |
| TC1000053.hg.1 | -2.03 | JUC10000330.hg.1 | PFKFB3 |
| TC1000053.hg.1 | -3.6 | JUC10000304.hg.1 | PFKFB3 |
| TC1000053.hg.1 | -4.09 | JUC10000319.hg.1 | PFKFB3 |
| TC10002924.hg.1 | 19.88 | JUC10016959.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 13.55 | PSR10000320.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 13.09 | PSR10000319.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 12.34 | PSR10000321.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 11.92 | PSR10000318.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 9.98 | JUC10016964.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 6.25 | JUC10016957.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 5.46 | JUC10016970.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 4.64 | PSR10000324.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 4.47 | PSR10000329.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 3.72 | PSR10000334.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 3.5 | PSR10000335.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 3.38 | PSR10000346.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 3.36 | PSR10000338.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 2.75 | JUC10016969.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 2.55 | PSR10000328.hg.1 | AKR1C1 |
| TC10002924.hg.1 | 2.11 | PSR10000322.hg.1 | AKR1C1 |
| TC10002924.hg.1 | -2.28 | PSR10000332.hg.1 | AKR1C1 |
| TC08002613.hg.1 | 19.78 | JUC08015206.hg.1 | LOXL2 |
| TC08002613.hg.1 | 10.35 | JUC08015204.hg.1 | LOXL2 |
| TC08002613.hg.1 | 6.8 | JUC08015186.hg.1 | LOXL2 |
| TC08002613.hg.1 | 5.5 | JUC08015200.hg.1 | LOXL2 |
| TC08002613.hg.1 | 4.85 | JUC08015208.hg.1 | LOXL2 |
| TC08002613.hg.1 | 4.73 | PSR08013437.hg.1 | LOXL2 |
| TC08002613.hg.1 | 4.71 | JUC08015202.hg.1 | LOXL2 |
| TC08002613.hg.1 | 4.2 | PSR08013449.hg.1 | LOXL2 |
| TC08002613.hg.1 | 3.35 | PSR08013420.hg.1 | LOXL2 |
| TC08002613.hg.1 | 3.23 | PSR08013422.hg.1 | LOXL2 |
| TC08002613.hg.1 | 2.83 | PSR08013401.hg.1 | LOXL2 |
| TC08002613.hg.1 | 2.54 | JUC08015201.hg.1 | LOXL2 |
| TC08002613.hg.1 | -2.02 | PSR08013435.hg.1 | LOXL2 |
| TC08002613.hg.1 | -2.08 | JUC08015191.hg.1 | LOXL2 |
| TC08002613.hg.1 | -4.33 | PSR08013421.hg.1 | LOXL2 |
| TC01001427.hg.1 | 19.49 | JUC01011775.hg.1 | RGS4 |
| TC01001427.hg.1 | 9.83 | JUC01011772.hg.1 | RGS4 |
| TC01001427.hg.1 | 4.27 | PSR01022322.hg.1 | RGS4 |
| TC01001427.hg.1 | 3.65 | PSR01022315.hg.1 | RGS4 |
| TC01001427.hg.1 | 3.51 | JUC01011765.hg.1 | RGS4 |
| TC01001427.hg.1 | 2.82 | PSR01022320.hg.1 | RGS4 |
| TC01001427.hg.1 | 2.62 | PSR01022325.hg.1 | RGS4 |
| TC01001427.hg.1 | 2.59 | PSR01022323.hg.1 | RGS4 |
| TC01001427.hg.1 | 2.39 | PSR01022321.hg.1 | RGS4 |
| TC01001427.hg.1 | 2.1 | PSR01022328.hg.1 | RGS4 |
| TC01001427.hg.1 | -2.14 | PSR01022339.hg.1 | RGS4 |
| TC01001427.hg.1 | -2.34 | JUC01011764.hg.1 | RGS4 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC03001370.hg.1 | 19.17 | PSR03023647.hg.1 | SMARCC1 |
| TC03001370.hg.1 | -3.68 | JUC03011797.hg.1 | SMARCC1 |
| TC20000833.hg.1 | 18.83 | JUC20005932.hg.1 | TGM2 |
| TC20000833.hg.1 | 15.75 | JUC20005940.hg.1 | TGM2 |
| TC20000833.hg.1 | 14.11 | PSR20011484.hg.1 | TGM2 |
| TC20000833.hg.1 | 13.14 | PSR20011483.hg.1 | TGM2 |
| TC20000833.hg.1 | 10.59 | PSR20011481.hg.1 | TGM2 |
| TC20000833.hg.1 | 9.41 | PSR20011476.hg.1 | TGM2 |
| TC20000833.hg.1 | 7.4 | PSR20011465.hg.1 | TGM2 |
| TC20000833.hg.1 | 7.31 | JUC20005942.hg.1 | TGM2 |
| TC20000833.hg.1 | 6.88 | JUC20005935.hg.1 | TGM2 |
| TC20000833.hg.1 | 5.29 | PSR20011459.hg.1 | TGM2 |
| TC20000833.hg.1 | 2.85 | JUC20005931.hg.1 | TGM2 |
| TC20000833.hg.1 | 2.22 | JUC20005924.hg.1 | TGM2 |
| TC20000833.hg.1 | 2 | JUC20005941.hg.1 | TGM2 |
| TC20000833.hg.1 | -2.25 | JUC20005927.hg.1 | TGM2 |
| TC20000833.hg.1 | -2.49 | JUC20005930.hg.1 | TGM2 |
| TC20000833.hg.1 | -4.16 | JUC20005925.hg.1 | TGM2 |
| TC06000608.hg.1 | 18.71 | JUC06003213.hg.1 | VEGFA |
| TC06000608.hg.1 | 13.95 | PSR06007279.hg.1 | VEGFA |
| TC06000608.hg.1 | 11.74 | PSR06007282.hg.1 | VEGFA |
| TC06000608.hg.1 | 8.82 | PSR06007285.hg.1 | VEGFA |
| TC06000608.hg.1 | 8.1 | PSR06007295.hg.1 | VEGFA |
| TC06000608.hg.1 | 7.79 | PSR06007309.hg.1 | VEGFA |
| TC06000608.hg.1 | 7.21 | PSR06007290.hg.1 | VEGFA |
| TC06000608.hg.1 | 7.1 | PSR06007286.hg.1 | VEGFA |
| TC06000608.hg.1 | 6.18 | JUC06003202.hg.1 | VEGFA |
| TC06000608.hg.1 | 4.24 | JUC06003203.hg.1 | VEGFA |
| TC06000608.hg.1 | 4.21 | PSR06007297.hg.1 | VEGFA |
| TC06000608.hg.1 | 2.87 | PSR06007293.hg.1 | VEGFA |
| TC06000608.hg.1 | 2.25 | JUC06003210.hg.1 | VEGFA |
| TC06000608.hg.1 | -2.05 | PSR06007307.hg.1 | VEGFA |
| TC06000608.hg.1 | -2.23 | JUC06003201.hg.1 | VEGFA |
| TC06000608.hg.1 | -2.29 | PSR06007313.hg.1 | VEGFA |
| TC06000608.hg.1 | -2.42 | JUC06003198.hg.1 | VEGFA |
| TC06000608.hg.1 | -4.32 | PSR06007303.hg.1 | VEGFA |
| TC06000608.hg.1 | -5.09 | JUC06003199.hg.1 | VEGFA |
| TC19002613.hg.1 | 18.26 | PSR19021613.hg.1 | PSG4 |
| TC19002613.hg.1 | 16.16 | JUC19017113.hg.1 | PSG4 |
| TC19002613.hg.1 | 15.07 | PSR19021609.hg.1 | PSG4 |
| TC19002613.hg.1 | 14.53 | PSR19021618.hg.1 | PSG4 |
| TC19002613.hg.1 | 12.41 | JUC19017116.hg.1 | PSG4 |
| TC19002613.hg.1 | 11.13 | PSR19021607.hg.1 | PSG4 |
| TC19002613.hg.1 | 10.38 | PSR19021614.hg.1 | PSG4 |
| TC19002613.hg.1 | 6.86 | PSR19021615.hg.1 | PSG4 |
| TC19002613.hg.1 | 5.66 | JUC19017120.hg.1 | PSG4 |
| TC19002613.hg.1 | 4.76 | JUC19017119.hg.1 | PSG4 |
| TC19002613.hg.1 | 2.82 | JUC19017115.hg.1 | PSG4 |
| TC19002613.hg.1 | 2.42 | PSR19021610.hg.1 | PSG4 |
| TC09000253.hg.1 | 18.12 | JUC09001493.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 4.33 | JUC09001475.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.9 | PSR09002824.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.81 | JUC09001471.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.73 | PSR09002825.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.6 | PSR09002867.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.56 | PSR09002842.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.24 | PSR09002837.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 3.17 | JUC09001498.hg.1 | CNTNAP3B, C |

| | | | |
|------------------|-------|-------------------|-------------|
| TC09000253.hg.1 | 2.99 | JUC09001500.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.5 | PSR09002853.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.4 | PSR09002852.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.36 | PSR09002855.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.31 | PSR09002828.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.27 | JUC09001476.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.24 | JUC09001483.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.18 | PSR09002850.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.17 | PSR09002862.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.14 | PSR09002868.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.1 | PSR09002840.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2.01 | PSR09002826.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | 2 | PSR09002857.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | -2.21 | PSR09002831.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | -2.31 | JUC09001482.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | -2.68 | PSR09002833.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | -3.65 | JUC09001499.hg.1 | CNTNAP3B, C |
| TC09000253.hg.1 | -3.95 | JUC09001484.hg.1 | CNTNAP3B, C |
| TC6_qbl_hap60002 | 17.91 | PSR6_qbl_hap60002 | HLA-A |
| TC6_qbl_hap60002 | 3.76 | PSR6_qbl_hap60002 | HLA-A |
| TC6_qbl_hap60002 | 2.72 | PSR6_qbl_hap60002 | HLA-A |
| TC6_qbl_hap60002 | 2.23 | JUC6_qbl_hap60018 | HLA-A |
| TC6_qbl_hap60002 | -2.05 | PSR6_qbl_hap60002 | HLA-A |
| TC6_qbl_hap60002 | -2.61 | JUC6_qbl_hap60018 | HLA-A |
| TC6_qbl_hap60002 | -5.13 | JUC6_qbl_hap60018 | HLA-A |
| TC05001900.hg.1 | 17.6 | JUC05013360.hg.1 | LARS |
| TC05001900.hg.1 | -2 | JUC05013374.hg.1 | LARS |
| TC05001900.hg.1 | -2.04 | PSR05026207.hg.1 | LARS |
| TC05001900.hg.1 | -2.29 | JUC05013399.hg.1 | LARS |
| TC05001900.hg.1 | -2.46 | JUC05013366.hg.1 | LARS |
| TC05001900.hg.1 | -3.9 | PSR05026192.hg.1 | LARS |
| TC01006319.hg.1 | 17.48 | PSR01007334.hg.1 | SH3D21 |
| TC01006319.hg.1 | 3.98 | PSR01007333.hg.1 | SH3D21 |
| TC01006319.hg.1 | 3.77 | PSR01007304.hg.1 | SH3D21 |
| TC01006319.hg.1 | 3.49 | JUC01043939.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.88 | PSR01007303.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.78 | JUC01043945.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.54 | JUC01043934.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.44 | PSR01007328.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.24 | PSR01007326.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.21 | PSR01007330.hg.1 | SH3D21 |
| TC01006319.hg.1 | 2.09 | PSR01007329.hg.1 | SH3D21 |
| TC01006319.hg.1 | -2.8 | JUC01043937.hg.1 | SH3D21 |
| TC01006319.hg.1 | -2.9 | PSR01007315.hg.1 | SH3D21 |
| TC01006319.hg.1 | -3.06 | JUC01043930.hg.1 | SH3D21 |
| TC10001030.hg.1 | 17.3 | PSR10012789.hg.1 | SFTA1P |
| TC10001030.hg.1 | 4.47 | PSR10012796.hg.1 | SFTA1P |
| TC10001030.hg.1 | 3.17 | PSR10012792.hg.1 | SFTA1P |
| TC10001030.hg.1 | 2.22 | JUC10007406.hg.1 | SFTA1P |
| TC10001030.hg.1 | -3.17 | JUC10007402.hg.1 | SFTA1P |
| TC10001030.hg.1 | -3.95 | PSR10012794.hg.1 | SFTA1P |
| TC12000406.hg.1 | 17.2 | JUC12002822.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 5.5 | JUC12002820.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 4.45 | JUC12002829.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 3.5 | PSR12005113.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 3.3 | PSR12005107.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.47 | PSR12005105.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.42 | PSR12005109.hg.1 | SLC4A8 |

| | | | |
|-----------------|-------|------------------|--------|
| TC12000406.hg.1 | 2.37 | PSR12005104.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.36 | PSR12005108.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.34 | JUC12002837.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.31 | PSR12005117.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.3 | PSR12005138.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.26 | PSR12005114.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.23 | PSR12005100.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.13 | PSR12005101.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.13 | PSR12005110.hg.1 | SLC4A8 |
| TC12000406.hg.1 | 2.09 | PSR12005102.hg.1 | SLC4A8 |
| TC12000406.hg.1 | -2.06 | JUC12002835.hg.1 | SLC4A8 |
| TC12000406.hg.1 | -2.45 | JUC12002826.hg.1 | SLC4A8 |
| TC12000406.hg.1 | -4.24 | JUC12002811.hg.1 | SLC4A8 |
| TC01001710.hg.1 | 16.41 | JUC01014286.hg.1 | CDK18 |
| TC01001710.hg.1 | 15.53 | JUC01014300.hg.1 | CDK18 |
| TC01001710.hg.1 | 13.94 | JUC01014291.hg.1 | CDK18 |
| TC01001710.hg.1 | 12.2 | JUC01014289.hg.1 | CDK18 |
| TC01001710.hg.1 | 12.17 | JUC01014310.hg.1 | CDK18 |
| TC01001710.hg.1 | 11.93 | PSR01026626.hg.1 | CDK18 |
| TC01001710.hg.1 | 9.7 | PSR01026639.hg.1 | CDK18 |
| TC01001710.hg.1 | 9.58 | JUC01014307.hg.1 | CDK18 |
| TC01001710.hg.1 | 9.08 | PSR01026631.hg.1 | CDK18 |
| TC01001710.hg.1 | 8.55 | PSR01026666.hg.1 | CDK18 |
| TC01001710.hg.1 | 8.18 | PSR01026655.hg.1 | CDK18 |
| TC01001710.hg.1 | 7.91 | PSR01026632.hg.1 | CDK18 |
| TC01001710.hg.1 | 7.83 | PSR01026680.hg.1 | CDK18 |
| TC01001710.hg.1 | 7.46 | PSR01026685.hg.1 | CDK18 |
| TC01001710.hg.1 | 6.81 | PSR01026677.hg.1 | CDK18 |
| TC01001710.hg.1 | 6.61 | PSR01026654.hg.1 | CDK18 |
| TC01001710.hg.1 | 6.52 | PSR01026694.hg.1 | CDK18 |
| TC01001710.hg.1 | 6.21 | PSR01026690.hg.1 | CDK18 |
| TC01001710.hg.1 | 6.01 | PSR01026670.hg.1 | CDK18 |
| TC01001710.hg.1 | 5.72 | PSR01026645.hg.1 | CDK18 |
| TC01001710.hg.1 | 5.69 | PSR01026683.hg.1 | CDK18 |
| TC01001710.hg.1 | 5.44 | JUC01014311.hg.1 | CDK18 |
| TC01001710.hg.1 | 5.39 | JUC01014295.hg.1 | CDK18 |
| TC01001710.hg.1 | 5.17 | PSR01026678.hg.1 | CDK18 |
| TC01001710.hg.1 | 5 | JUC01014287.hg.1 | CDK18 |
| TC01001710.hg.1 | 4.82 | PSR01026658.hg.1 | CDK18 |
| TC01001710.hg.1 | 4.24 | PSR01026636.hg.1 | CDK18 |
| TC01001710.hg.1 | 4.14 | JUC01014305.hg.1 | CDK18 |
| TC01001710.hg.1 | 3.6 | PSR01026641.hg.1 | CDK18 |
| TC01001710.hg.1 | 3.35 | PSR01026696.hg.1 | CDK18 |
| TC01001710.hg.1 | 3.08 | PSR01026671.hg.1 | CDK18 |
| TC01001710.hg.1 | 3.02 | PSR01026644.hg.1 | CDK18 |
| TC01001710.hg.1 | 2.83 | PSR01026643.hg.1 | CDK18 |
| TC01001710.hg.1 | 2.32 | JUC01014283.hg.1 | CDK18 |
| TC01001710.hg.1 | 2.28 | JUC01014285.hg.1 | CDK18 |
| TC01001710.hg.1 | 2.25 | JUC01014297.hg.1 | CDK18 |
| TC01001710.hg.1 | 2.01 | PSR01026651.hg.1 | CDK18 |
| TC01001710.hg.1 | -2.19 | PSR01026665.hg.1 | CDK18 |
| TC01001710.hg.1 | -2.33 | JUC01014298.hg.1 | CDK18 |
| TC01001710.hg.1 | -2.62 | PSR01026667.hg.1 | CDK18 |
| TC01001710.hg.1 | -2.71 | PSR01026646.hg.1 | CDK18 |
| TC01001710.hg.1 | -2.75 | JUC01014308.hg.1 | CDK18 |
| TC01001710.hg.1 | -3.04 | PSR01026692.hg.1 | CDK18 |
| TC01001710.hg.1 | -3.05 | PSR01026702.hg.1 | CDK18 |
| TC01001710.hg.1 | -3.12 | JUC01014296.hg.1 | CDK18 |

| | | | |
|-----------------|-------|-------------------|------------|
| TC01001710.hg.1 | -3.74 | PSR01026647.hg.1 | CDK18 |
| TC01001710.hg.1 | -4.06 | JUC01014294.hg.1 | CDK18 |
| TC01001710.hg.1 | -7.64 | PSR01026662.hg.1 | CDK18 |
| TC01001710.hg.1 | -8.51 | JUC01014302.hg.1 | CDK18 |
| TC06001029.hg.1 | 16.4 | JUC06005887.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 7.54 | PSR06012058.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 6.31 | JUC06005875.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 5.15 | JUC06005888.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 4.75 | JUC06005896.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 4.21 | JUC06005866.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 3.45 | PSR06012056.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 3.35 | PSR06012055.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 2.33 | PSR06012057.hg.1 | KIAA1244 |
| TC06001029.hg.1 | 2 | PSR06012060.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.01 | JUC06005869.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.07 | JUC06005899.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.12 | PSR06012076.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.18 | PSR06012043.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.41 | PSR06012066.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.54 | JUC06005895.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.58 | JUC06005878.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.65 | JUC06005871.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.74 | PSR06012063.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.85 | JUC06005873.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -2.88 | JUC06005876.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -3.01 | PSR06012061.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -3.05 | JUC06005868.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -3.55 | PSR06012077.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -3.58 | JUC06005894.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -3.76 | JUC06005885.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -3.87 | JUC06005892.hg.1 | KIAA1244 |
| TC06001029.hg.1 | -4.36 | JUC06005877.hg.1 | KIAA1244 |
| TC09002932.hg.1 | 16.2 | JUC09016215.hg.1 | ANKRD20A1, |
| TC09002932.hg.1 | 2.37 | PSR09003017.hg.1 | ANKRD20A1, |
| TC09002932.hg.1 | 2.3 | JUC09016214.hg.1 | ANKRD20A1, |
| TC09002932.hg.1 | 2.19 | JUC09016225.hg.1 | ANKRD20A1, |
| TC09002932.hg.1 | -2.37 | JUC09016222.hg.1 | ANKRD20A1, |
| TC6_cox_hap2000 | 16.15 | JUC6_cox_hap20020 | CFB |
| TC6_cox_hap2000 | 14.43 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 13.4 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 12.99 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 12.23 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 11.75 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 10.73 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 7.56 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 6.81 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 5.66 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 5.64 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 5.35 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 4.07 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 3.93 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 3.38 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 3.31 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 2.99 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 2.87 | JUC6_cox_hap20020 | CFB |
| TC6_cox_hap2000 | 2.8 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 2.65 | PSR6_cox_hap2001 | CFB |
| TC6_cox_hap2000 | 2.52 | PSR6_cox_hap2001 | CFB |

| | | | |
|------------------|-------|-------------------|-----|
| TC6_cox_hap2000 | 2.32 | JUC6_cox_hap20020 | CFB |
| TC6_cox_hap2000 | 2.01 | JUC6_cox_hap20020 | CFB |
| TC6_cox_hap2000 | -2.46 | JUC6_cox_hap20019 | CFB |
| TC6_dbb_hap3000 | 16.15 | JUC6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 14.43 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 13.4 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 12.99 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 12.23 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 11.14 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 10.73 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 7.56 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 6.81 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 5.66 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 5.64 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 5.35 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 4.07 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 3.93 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 3.38 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 3.31 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 2.99 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 2.87 | JUC6_dbb_hap30018 | CFB |
| TC6_dbb_hap3000 | 2.8 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 2.65 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 2.52 | PSR6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 2.32 | JUC6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | 2.01 | JUC6_dbb_hap30017 | CFB |
| TC6_dbb_hap3000 | -2.46 | JUC6_dbb_hap30017 | CFB |
| TC6_mcf_hap5000 | 16.15 | JUC6_mcf_hap50018 | CFB |
| TC6_mcf_hap5000 | 14.43 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 13.4 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 12.99 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 12.23 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 11.14 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 10.73 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 8.04 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 7.56 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 6.81 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 5.66 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 5.64 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 5.35 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 4.07 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 3.93 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 3.38 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 3.31 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 2.99 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 2.87 | JUC6_mcf_hap50018 | CFB |
| TC6_mcf_hap5000 | 2.8 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 2.65 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 2.52 | PSR6_mcf_hap50017 | CFB |
| TC6_mcf_hap5000 | 2.32 | JUC6_mcf_hap50018 | CFB |
| TC6_mcf_hap5000 | 2.01 | JUC6_mcf_hap50018 | CFB |
| TC6_mcf_hap5000 | -2.46 | JUC6_mcf_hap50018 | CFB |
| TC6_qbl_hap6000z | 16.15 | JUC6_qbl_hap60019 | CFB |
| TC6_qbl_hap6000z | 14.43 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap6000z | 13.4 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap6000z | 12.99 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap6000z | 12.23 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap6000z | 11.14 | PSR6_qbl_hap60014 | CFB |

| | | | |
|------------------|-------|-------------------|-------|
| TC6_qbl_hap60002 | 10.73 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 7.56 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 6.81 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 5.66 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 5.64 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 5.35 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 4.07 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 3.93 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 3.38 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 3.31 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 2.99 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 2.87 | JUC6_qbl_hap60019 | CFB |
| TC6_qbl_hap60002 | 2.8 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 2.65 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 2.52 | PSR6_qbl_hap60013 | CFB |
| TC6_qbl_hap60002 | 2.32 | JUC6_qbl_hap60019 | CFB |
| TC6_qbl_hap60002 | 2.01 | JUC6_qbl_hap60019 | CFB |
| TC6_qbl_hap60002 | -2.46 | JUC6_qbl_hap60019 | CFB |
| TC6_ssto_hap7000 | 16.15 | JUC6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 14.43 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 13.4 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 12.99 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 12.23 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 11.14 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 10.73 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 8.04 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 7.56 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 6.81 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 5.66 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 5.64 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 5.35 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 4.07 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 3.93 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 3.38 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 3.31 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.99 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.87 | JUC6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.8 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.65 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.52 | PSR6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.32 | JUC6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | 2.01 | JUC6_ssto_hap7001 | CFB |
| TC6_ssto_hap7000 | -2.46 | JUC6_ssto_hap7001 | CFB |
| TC15000930.hg.1 | 15.75 | JUC15004593.hg.1 | MCTP2 |
| TC15000930.hg.1 | 2.19 | PSR15008655.hg.1 | MCTP2 |
| TC15001541.hg.1 | 15.73 | JUC15007849.hg.1 | CA12 |
| TC15001541.hg.1 | 10.99 | PSR15014514.hg.1 | CA12 |
| TC15001541.hg.1 | 10.68 | PSR15014515.hg.1 | CA12 |
| TC15001541.hg.1 | 9.57 | PSR15014492.hg.1 | CA12 |
| TC15001541.hg.1 | 4.54 | PSR15014511.hg.1 | CA12 |
| TC15001541.hg.1 | 4.36 | JUC15007842.hg.1 | CA12 |
| TC15001541.hg.1 | 3.67 | PSR15014503.hg.1 | CA12 |
| TC15001541.hg.1 | 3.65 | PSR15014502.hg.1 | CA12 |
| TC15001541.hg.1 | 3.07 | JUC15007843.hg.1 | CA12 |
| TC15001541.hg.1 | 2.32 | JUC15007840.hg.1 | CA12 |
| TC15001541.hg.1 | -3.17 | JUC15007846.hg.1 | CA12 |
| TC15001541.hg.1 | -3.65 | JUC15007839.hg.1 | CA12 |
| TC11001589.hg.1 | 15.57 | JUC11010566.hg.1 | CHST1 |

| | | | |
|-----------------|-------|------------------|--------|
| TC11001589.hg.1 | 3.67 | PSR11019775.hg.1 | CHST1 |
| TC11001589.hg.1 | 3.35 | PSR11019785.hg.1 | CHST1 |
| TC11001589.hg.1 | 3.35 | PSR11019787.hg.1 | CHST1 |
| TC11001589.hg.1 | 3.07 | JUC11010567.hg.1 | CHST1 |
| TC11001589.hg.1 | 3.04 | JUC11010564.hg.1 | CHST1 |
| TC11001589.hg.1 | 2.59 | PSR11019786.hg.1 | CHST1 |
| TC11001589.hg.1 | 2.5 | JUC11010563.hg.1 | CHST1 |
| TC11001589.hg.1 | 2.46 | PSR11019773.hg.1 | CHST1 |
| TC11001589.hg.1 | -2.06 | PSR11019784.hg.1 | CHST1 |
| TC03000716.hg.1 | 15.38 | JUC03006529.hg.1 | CCRL1 |
| TC03000716.hg.1 | 14.11 | PSR03012884.hg.1 | CCRL1 |
| TC03000716.hg.1 | 7.45 | PSR03012883.hg.1 | CCRL1 |
| TC03000716.hg.1 | 2.59 | JUC03006527.hg.1 | CCRL1 |
| TC03000716.hg.1 | -2.17 | PSR03012890.hg.1 | CCRL1 |
| TC03000716.hg.1 | -2.26 | PSR03012886.hg.1 | CCRL1 |
| TC02002143.hg.1 | 15.28 | JUC02018085.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 8.64 | PSR02035035.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 8.55 | JUC02018071.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 8.11 | PSR02035037.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 7.76 | JUC02018062.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 6.19 | PSR02035040.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.93 | PSR02035042.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.68 | PSR02035027.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.6 | JUC02018077.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.58 | PSR02035039.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.48 | PSR02035036.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.33 | PSR02035015.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 5.22 | PSR02035041.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 4.71 | PSR02035033.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 4.49 | JUC02018078.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 4.23 | JUC02018068.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 3.88 | PSR02035013.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 3.84 | PSR02035002.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 3.53 | PSR02035026.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 3.35 | PSR02035019.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 3.33 | PSR02035004.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 3.04 | PSR02035025.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.91 | PSR02035012.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.74 | JUC02018079.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.67 | JUC02018076.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.25 | PSR02035007.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.25 | PSR02035017.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.2 | JUC02018083.hg.1 | TBC1D8 |
| TC02002143.hg.1 | 2.05 | PSR02035016.hg.1 | TBC1D8 |
| TC02002143.hg.1 | -2.01 | JUC02018070.hg.1 | TBC1D8 |
| TC02002143.hg.1 | -2.05 | JUC02018074.hg.1 | TBC1D8 |
| TC02002143.hg.1 | -2.51 | JUC02018088.hg.1 | TBC1D8 |
| TC07000220.hg.1 | 15.03 | JUC07001632.hg.1 | BMPER |
| TC07000220.hg.1 | 7.58 | PSR07003442.hg.1 | BMPER |
| TC07000220.hg.1 | 6.33 | JUC07001633.hg.1 | BMPER |
| TC07000220.hg.1 | 6.32 | PSR07003465.hg.1 | BMPER |
| TC07000220.hg.1 | 5.17 | JUC07001637.hg.1 | BMPER |
| TC07000220.hg.1 | 4.93 | PSR07003471.hg.1 | BMPER |
| TC07000220.hg.1 | 3.36 | PSR07003452.hg.1 | BMPER |
| TC07000220.hg.1 | 2.8 | JUC07001641.hg.1 | BMPER |
| TC07000220.hg.1 | 2.78 | PSR07003459.hg.1 | BMPER |
| TC07000220.hg.1 | 2.76 | JUC07001640.hg.1 | BMPER |
| TC07000220.hg.1 | 2.46 | PSR07003448.hg.1 | BMPER |

| | | | |
|-----------------|-------|------------------|--------|
| TC07000220.hg.1 | -2.09 | PSR07003460.hg.1 | BMPER |
| TC07000220.hg.1 | -2.5 | JUC07001630.hg.1 | BMPER |
| TC07000220.hg.1 | -2.72 | PSR07003464.hg.1 | BMPER |
| TC07000220.hg.1 | -2.76 | JUC07001627.hg.1 | BMPER |
| TC07000220.hg.1 | -3.54 | JUC07001634.hg.1 | BMPER |
| TC01001030.hg.1 | 14.85 | JUC01008564.hg.1 | FAM46C |
| TC01001030.hg.1 | 14.85 | JUC01008566.hg.1 | FAM46C |
| TC01001030.hg.1 | 3.2 | PSR01016356.hg.1 | FAM46C |
| TC01001030.hg.1 | 2.9 | PSR01016353.hg.1 | FAM46C |
| TC01001030.hg.1 | 2.29 | PSR01016355.hg.1 | FAM46C |
| TC01001030.hg.1 | 2.17 | JUC01008565.hg.1 | FAM46C |
| TC07001751.hg.1 | 14.77 | JUC07013421.hg.1 | NRCAM |
| TC07001751.hg.1 | 3.64 | JUC07013464.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.89 | JUC07013434.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.82 | JUC07013432.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.45 | JUC07013451.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.41 | JUC07013462.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.31 | JUC07013424.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.28 | PSR07027358.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.14 | PSR07027362.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.06 | PSR07027301.hg.1 | NRCAM |
| TC07001751.hg.1 | 2.05 | JUC07013445.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.06 | JUC07013420.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.17 | JUC07013422.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.22 | PSR07027367.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.24 | PSR07027336.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.28 | PSR07027330.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.3 | PSR07027295.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.33 | PSR07027331.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.42 | JUC07013469.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.46 | PSR07027335.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.52 | PSR07027329.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.67 | PSR07027312.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.73 | PSR07027372.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.82 | PSR07027296.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.82 | JUC07013435.hg.1 | NRCAM |
| TC07001751.hg.1 | -2.94 | PSR07027365.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.1 | JUC07013449.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.15 | PSR07027317.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.15 | PSR07027369.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.16 | PSR07027332.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.35 | JUC07013417.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.64 | JUC07013456.hg.1 | NRCAM |
| TC07001751.hg.1 | -3.88 | PSR07027303.hg.1 | NRCAM |
| TC07001751.hg.1 | -4.15 | PSR07027363.hg.1 | NRCAM |
| TC07001751.hg.1 | -4.2 | PSR07027360.hg.1 | NRCAM |
| TC07001751.hg.1 | -5.1 | JUC07013465.hg.1 | NRCAM |
| TC07001751.hg.1 | -5.68 | PSR07027322.hg.1 | NRCAM |
| TC07001751.hg.1 | -6.62 | JUC07013467.hg.1 | NRCAM |
| TC07001751.hg.1 | -7.39 | JUC07013459.hg.1 | NRCAM |
| TC07001751.hg.1 | -8.58 | JUC07013452.hg.1 | NRCAM |
| TC11001027.hg.1 | 14.75 | PSR11012850.hg.1 | NNMT |
| TC11001027.hg.1 | 4.46 | PSR11012851.hg.1 | NNMT |
| TC11001027.hg.1 | 3.31 | JUC11006915.hg.1 | NNMT |
| TC11001027.hg.1 | 2.36 | PSR11012848.hg.1 | NNMT |
| TC11001027.hg.1 | 2.04 | PSR11012863.hg.1 | NNMT |
| TC11001027.hg.1 | -4.04 | PSR11012853.hg.1 | NNMT |
| TC01006400.hg.1 | 14.74 | JUC01046627.hg.1 | GSTM1 |

| | | | |
|-----------------|--------|------------------|------------|
| TC01006400.hg.1 | 12.81 | JUC01046631.hg.1 | GSTM1 |
| TC01006400.hg.1 | 10.9 | PSR01015155.hg.1 | GSTM1 |
| TC18000077.hg.1 | 14.71 | JUC18000529.hg.1 | ANKRD20A5I |
| TC18000077.hg.1 | 2.4 | JUC18000533.hg.1 | ANKRD20A5I |
| TC18000077.hg.1 | 2.18 | JUC18000530.hg.1 | ANKRD20A5I |
| TC18000077.hg.1 | 2.14 | JUC18000538.hg.1 | ANKRD20A5I |
| TC18000077.hg.1 | -2.28 | PSR18000886.hg.1 | ANKRD20A5I |
| TC09001097.hg.1 | 14.66 | JUC09007862.hg.1 | |
| TC09001097.hg.1 | 2.69 | PSR09014647.hg.1 | |
| TC09001097.hg.1 | 2.16 | PSR09014646.hg.1 | |
| TC09001097.hg.1 | -2.66 | PSR09014643.hg.1 | |
| TC09001097.hg.1 | -2.86 | JUC09007858.hg.1 | |
| TC09001097.hg.1 | -4.51 | JUC09007859.hg.1 | |
| TC09001097.hg.1 | -4.88 | JUC09007861.hg.1 | |
| TC09000086.hg.1 | 14.56 | JUC09000563.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 6.07 | JUC09000567.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 4.63 | PSR09001021.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.79 | JUC09000560.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.73 | PSR09001028.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.63 | PSR09001034.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.55 | JUC09000568.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.44 | JUC09000576.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.23 | PSR09001059.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.18 | PSR09001069.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 3.12 | PSR09001048.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.93 | PSR09001023.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.74 | PSR09001075.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.71 | PSR09001080.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.71 | JUC09000558.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.53 | JUC09000573.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.34 | PSR09001070.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.25 | PSR09001057.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.21 | JUC09000566.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.11 | JUC09000577.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.1 | JUC09000557.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.07 | PSR09001073.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | 2.01 | PSR09001078.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -2.01 | PSR09001077.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -2.19 | JUC09000571.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -2.24 | JUC09000561.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -2.35 | PSR09001058.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -2.88 | JUC09000559.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -2.92 | JUC09000574.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -3.22 | PSR09001039.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -3.38 | JUC09000556.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -3.59 | PSR09001041.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -3.65 | PSR09001038.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -3.82 | PSR09001033.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -4.38 | JUC09000565.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -4.83 | PSR09001040.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -4.97 | PSR09001030.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -5.17 | JUC09000582.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -5.27 | PSR09001037.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -5.94 | PSR09001031.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -7.72 | JUC09000585.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -8.45 | JUC09000583.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -9.37 | JUC09000570.hg.1 | ADAMTSL1 |
| TC09000086.hg.1 | -10.12 | PSR09001036.hg.1 | ADAMTSL1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC08001013.hg.1 | 14.4 | JUC08006601.hg.1 | MTUS1 |
| TC08001013.hg.1 | 3.8 | JUC08006614.hg.1 | MTUS1 |
| TC08001013.hg.1 | 3.66 | JUC08006626.hg.1 | MTUS1 |
| TC08001013.hg.1 | 3.04 | PSR08012784.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.94 | PSR08012772.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.88 | JUC08006609.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.67 | JUC08006606.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.5 | PSR08012762.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.45 | PSR08012746.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.33 | JUC08006627.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.24 | PSR08012756.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.23 | PSR08012742.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.21 | PSR08012731.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.21 | PSR08012764.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.21 | JUC08006600.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.18 | PSR08012768.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.11 | PSR08012788.hg.1 | MTUS1 |
| TC08001013.hg.1 | 2.03 | PSR08012736.hg.1 | MTUS1 |
| TC08001013.hg.1 | -2.02 | JUC08006619.hg.1 | MTUS1 |
| TC01001607.hg.1 | 14.34 | PSR01024936.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 9.21 | JUC01013350.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 6.75 | PSR01024943.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 6.01 | JUC01013348.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 5.2 | JUC01013363.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 4.88 | JUC01013354.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 3.52 | JUC01013347.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 3.33 | JUC01013366.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 2.43 | PSR01024940.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 2.2 | JUC01013357.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 2.16 | JUC01013361.hg.1 | PLA2G4A |
| TC01001607.hg.1 | 2.1 | JUC01013360.hg.1 | PLA2G4A |
| TC01001607.hg.1 | -2.06 | PSR01024959.hg.1 | PLA2G4A |
| TC01001607.hg.1 | -2.42 | PSR01024946.hg.1 | PLA2G4A |
| TC01001607.hg.1 | -2.54 | JUC01013351.hg.1 | PLA2G4A |
| TC06002113.hg.1 | 14.22 | JUC06013133.hg.1 | MOXD1 |
| TC06002113.hg.1 | 9.35 | PSR06026518.hg.1 | MOXD1 |
| TC06002113.hg.1 | 8.53 | PSR06026525.hg.1 | MOXD1 |
| TC06002113.hg.1 | 8.47 | PSR06026528.hg.1 | MOXD1 |
| TC06002113.hg.1 | 4.22 | PSR06026526.hg.1 | MOXD1 |
| TC06002113.hg.1 | 2.93 | JUC06013131.hg.1 | MOXD1 |
| TC06002113.hg.1 | 2.55 | PSR06026524.hg.1 | MOXD1 |
| TC06002113.hg.1 | 2.41 | JUC06013142.hg.1 | MOXD1 |
| TC06002113.hg.1 | 2.06 | JUC06013135.hg.1 | MOXD1 |
| TC06002113.hg.1 | 2.02 | PSR06026517.hg.1 | MOXD1 |
| TC06002113.hg.1 | -2.04 | JUC06013138.hg.1 | MOXD1 |
| TC01006269.hg.1 | 14 | JUC01038991.hg.1 | |
| TC01006269.hg.1 | 8.34 | PSR01009162.hg.1 | |
| TC01006269.hg.1 | 7.24 | PSR01009171.hg.1 | |
| TC01006269.hg.1 | 6.28 | JUC01038993.hg.1 | |
| TC01006269.hg.1 | 6.18 | JUC01038995.hg.1 | |
| TC01006269.hg.1 | 6.06 | JUC01038996.hg.1 | |
| TC01006269.hg.1 | 5.64 | JUC01038992.hg.1 | |
| TC01006269.hg.1 | 4.69 | PSR01009175.hg.1 | |
| TC01006269.hg.1 | 4.4 | JUC01038998.hg.1 | |
| TC01006269.hg.1 | 4.29 | PSR01009177.hg.1 | |
| TC01006269.hg.1 | 3.82 | JUC01039001.hg.1 | |
| TC01006269.hg.1 | 3.76 | PSR01009176.hg.1 | |
| TC01006269.hg.1 | 3.74 | PSR01009178.hg.1 | |

| | | | |
|-----------------|-------|------------------|-----------|
| TC01006269.hg.1 | 2.69 | PSR01009172.hg.1 | |
| TC01006269.hg.1 | -2.23 | JUC01038999.hg.1 | |
| TC11000173.hg.1 | 14 | JUC11001057.hg.1 | ZNF143 |
| TC11000173.hg.1 | 2.28 | JUC11001055.hg.1 | ZNF143 |
| TC11000173.hg.1 | 2.02 | PSR11002346.hg.1 | ZNF143 |
| TC11000173.hg.1 | -3.53 | JUC11001062.hg.1 | ZNF143 |
| TC01001258.hg.1 | 13.94 | JUC01010429.hg.1 | S100A1 |
| TC01001258.hg.1 | 8.51 | PSR01019177.hg.1 | S100A1 |
| TC01001258.hg.1 | 8.48 | PSR01019176.hg.1 | S100A1 |
| TC01001258.hg.1 | 8.42 | JUC01010428.hg.1 | S100A1 |
| TC01001258.hg.1 | 7.66 | JUC01010425.hg.1 | S100A1 |
| TC01001258.hg.1 | 7.17 | PSR01019170.hg.1 | S100A1 |
| TC01001258.hg.1 | 6.61 | PSR01019179.hg.1 | S100A1 |
| TC05001590.hg.1 | 13.9 | PSR05021639.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 10.16 | PSR05021635.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 7.85 | PSR05021634.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 6.73 | JUC05011125.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 6.12 | JUC05011116.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 5.18 | PSR05021632.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 3.84 | JUC05011118.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 2.49 | PSR05021631.hg.1 | ARRDC3 |
| TC05001590.hg.1 | 2.08 | PSR05021629.hg.1 | ARRDC3 |
| TC05001590.hg.1 | -2.07 | PSR05021605.hg.1 | ARRDC3 |
| TC11000182.hg.1 | 13.79 | PSR11002447.hg.1 | ADM |
| TC11000182.hg.1 | 8.16 | PSR11002452.hg.1 | ADM |
| TC11000182.hg.1 | 7.72 | JUC11001098.hg.1 | ADM |
| TC11000182.hg.1 | 6.86 | PSR11002449.hg.1 | ADM |
| TC11000182.hg.1 | 5.1 | PSR11002446.hg.1 | ADM |
| TC11000182.hg.1 | 5.06 | JUC11001100.hg.1 | ADM |
| TC11000182.hg.1 | 4.6 | JUC11001101.hg.1 | ADM |
| TC11000182.hg.1 | 3.82 | PSR11002453.hg.1 | ADM |
| TC11000182.hg.1 | -2.55 | PSR11002461.hg.1 | ADM |
| TC11000182.hg.1 | -2.74 | JUC11001103.hg.1 | ADM |
| TC08001022.hg.1 | 13.67 | JUC08006752.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 11.67 | JUC08006748.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 11.64 | JUC08006744.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 10.39 | JUC08006725.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 9.47 | JUC08006726.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.89 | PSR08013006.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.77 | JUC08006751.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.66 | PSR08012998.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.45 | JUC08006733.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.37 | PSR08012996.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.32 | PSR08012995.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.29 | JUC08006735.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.29 | JUC08006736.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 8.1 | PSR08012973.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 7.93 | PSR08013003.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 7.93 | JUC08006747.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 7.71 | JUC08006750.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 7.48 | JUC08006727.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 7.35 | JUC08006730.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 6.91 | PSR08012993.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 6.88 | PSR08012997.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 6.65 | PSR08012994.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 6.46 | PSR08012988.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 6.16 | JUC08006740.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 5.76 | PSR08012989.hg.1 | CSGALNACT |

| | | | |
|-----------------|-------|------------------|-----------|
| TC08001022.hg.1 | 5.23 | PSR08012987.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 5.14 | PSR08012971.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 5.11 | PSR08012992.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 4.75 | JUC08006742.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 4.68 | JUC08006728.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 4.17 | JUC08006741.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 3.96 | PSR08013000.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 3.55 | JUC08006753.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 3.43 | PSR08012985.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 3.41 | JUC08006737.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 3.36 | PSR08012983.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 3.31 | PSR08013001.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 2.88 | JUC08006749.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 2.67 | PSR08012984.hg.1 | CSGALNACT |
| TC08001022.hg.1 | 2.51 | PSR08012991.hg.1 | CSGALNACT |
| TC08001022.hg.1 | -3.13 | JUC08006731.hg.1 | CSGALNACT |
| TC04002929.hg.1 | 13.55 | JUC04017042.hg.1 | BST1 |
| TC04002929.hg.1 | 5.05 | JUC04017031.hg.1 | BST1 |
| TC04002929.hg.1 | 5.02 | PSR04002285.hg.1 | BST1 |
| TC04002929.hg.1 | 4.91 | PSR04002301.hg.1 | BST1 |
| TC04002929.hg.1 | 4.73 | JUC04017038.hg.1 | BST1 |
| TC04002929.hg.1 | 4.61 | PSR04002302.hg.1 | BST1 |
| TC04002929.hg.1 | 4.19 | PSR04002303.hg.1 | BST1 |
| TC04002929.hg.1 | 3.83 | PSR04002282.hg.1 | BST1 |
| TC04002929.hg.1 | 3.79 | PSR04002297.hg.1 | BST1 |
| TC04002929.hg.1 | 2.54 | JUC04017034.hg.1 | BST1 |
| TC04002929.hg.1 | 2.25 | PSR04002284.hg.1 | BST1 |
| TC02002819.hg.1 | 13.41 | JUC02023745.hg.1 | AP1S3 |
| TC02002819.hg.1 | 12.69 | JUC02023750.hg.1 | AP1S3 |
| TC02002819.hg.1 | 11.85 | JUC02023753.hg.1 | AP1S3 |
| TC02002819.hg.1 | 11.23 | JUC02023748.hg.1 | AP1S3 |
| TC02002819.hg.1 | 10.96 | JUC02023741.hg.1 | AP1S3 |
| TC02002819.hg.1 | 4.96 | PSR02045505.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.96 | PSR02045504.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.88 | PSR02045495.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.86 | PSR02045498.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.78 | JUC02023752.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.72 | PSR02045490.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.41 | PSR02045479.hg.1 | AP1S3 |
| TC02002819.hg.1 | 3.19 | PSR02045499.hg.1 | AP1S3 |
| TC02002819.hg.1 | 2.98 | PSR02045480.hg.1 | AP1S3 |
| TC02002819.hg.1 | 2.42 | JUC02023743.hg.1 | AP1S3 |
| TC02002819.hg.1 | 2.02 | PSR02045484.hg.1 | AP1S3 |
| TC02002819.hg.1 | -2.18 | JUC02023749.hg.1 | AP1S3 |
| TC01001625.hg.1 | 13.35 | PSR01025117.hg.1 | TROVE2 |
| TC01001625.hg.1 | 2.24 | PSR01025086.hg.1 | TROVE2 |
| TC01001625.hg.1 | -5.11 | JUC01013440.hg.1 | TROVE2 |
| TC08000500.hg.1 | 13.1 | PSR08006842.hg.1 | |
| TC08000500.hg.1 | 7.61 | JUC08003377.hg.1 | |
| TC08000500.hg.1 | 3.6 | JUC08003381.hg.1 | |
| TC08000500.hg.1 | -2.18 | PSR08006844.hg.1 | |
| TC08000500.hg.1 | -3.18 | JUC08003378.hg.1 | |
| TC17001937.hg.1 | 13.08 | JUC17014859.hg.1 | NPTX1 |
| TC17001937.hg.1 | 4.38 | PSR17026383.hg.1 | NPTX1 |
| TC17001937.hg.1 | 2.79 | PSR17026384.hg.1 | NPTX1 |
| TC17001937.hg.1 | 2.77 | JUC17014862.hg.1 | NPTX1 |
| TC17001937.hg.1 | -2.51 | PSR17026387.hg.1 | NPTX1 |
| TC06000408.hg.1 | 13 | JUC06001845.hg.1 | HLA-DPB1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC06000408.hg.1 | 6.28 | PSR06004790.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 6.17 | JUC06001841.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 5.82 | PSR06004789.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 5.81 | JUC06001846.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 5.5 | JUC06001855.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 5.02 | PSR06004787.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 4.65 | PSR06004808.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 4.28 | JUC06001842.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 3.7 | JUC06001848.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 3.45 | PSR06004779.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 3.4 | PSR06004783.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 3.33 | PSR06004794.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 3.29 | PSR06004793.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 3.02 | JUC06001850.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 2.38 | PSR06004785.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 2.29 | PSR06004806.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | 2.05 | PSR06004782.hg.1 | HLA-DPB1 |
| TC06000408.hg.1 | -2.11 | JUC06001849.hg.1 | HLA-DPB1 |
| TC06004077.hg.1 | 12.82 | JUC06021027.hg.1 | CFB |
| TC06004077.hg.1 | 11.45 | PSR06004095.hg.1 | CFB |
| TC06004077.hg.1 | 11.17 | PSR06004107.hg.1 | CFB |
| TC06004077.hg.1 | 10.91 | JUC06021031.hg.1 | CFB |
| TC06004077.hg.1 | 10.42 | PSR06004082.hg.1 | CFB |
| TC06004077.hg.1 | 9.7 | PSR06004117.hg.1 | CFB |
| TC06004077.hg.1 | 9.32 | PSR06004127.hg.1 | CFB |
| TC06004077.hg.1 | 8.51 | PSR06004113.hg.1 | CFB |
| TC06004077.hg.1 | 6.99 | PSR06004084.hg.1 | CFB |
| TC06004077.hg.1 | 6.45 | PSR06004091.hg.1 | CFB |
| TC06004077.hg.1 | 6 | PSR06004097.hg.1 | CFB |
| TC06004077.hg.1 | 5.4 | PSR06004108.hg.1 | CFB |
| TC06004077.hg.1 | 4.24 | PSR06004118.hg.1 | CFB |
| TC06004077.hg.1 | 3.45 | PSR06004085.hg.1 | CFB |
| TC06004077.hg.1 | 3.23 | PSR06004101.hg.1 | CFB |
| TC06004077.hg.1 | 3.12 | PSR06004087.hg.1 | CFB |
| TC06004077.hg.1 | 2.68 | PSR06004096.hg.1 | CFB |
| TC06004077.hg.1 | 2.63 | PSR06004094.hg.1 | CFB |
| TC06004077.hg.1 | 2.28 | JUC06021022.hg.1 | CFB |
| TC06004077.hg.1 | 2.23 | PSR06004105.hg.1 | CFB |
| TC06004077.hg.1 | 2.22 | PSR06004089.hg.1 | CFB |
| TC06004077.hg.1 | 2.1 | PSR06004098.hg.1 | CFB |
| TC06004077.hg.1 | 2 | PSR06004088.hg.1 | CFB |
| TC06004077.hg.1 | -2.02 | JUC06021021.hg.1 | CFB |
| TC06004077.hg.1 | -2.03 | JUC06021024.hg.1 | CFB |
| TC06004077.hg.1 | -2.07 | PSR06004126.hg.1 | CFB |
| TC06004077.hg.1 | -2.23 | JUC06021032.hg.1 | CFB |
| TC06004077.hg.1 | -3.1 | JUC06021026.hg.1 | CFB |
| TC01000545.hg.1 | 12.78 | JUC01004478.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.37 | PSR01008666.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.33 | PSR01008667.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.26 | PSR01008681.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.16 | PSR01008662.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.07 | PSR01008672.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.05 | PSR01008663.hg.1 | CDC20 |
| TC01000545.hg.1 | 2.04 | PSR01008671.hg.1 | CDC20 |
| TC01000545.hg.1 | -2.2 | JUC01004472.hg.1 | CDC20 |
| TC17000124.hg.1 | 12.71 | PSR17001843.hg.1 | ALOX15B |
| TC17000124.hg.1 | 7.91 | JUC17001078.hg.1 | ALOX15B |
| TC17000124.hg.1 | 4.67 | JUC17001084.hg.1 | ALOX15B |

| | | | |
|-----------------|-------|------------------|---------|
| TC17000124.hg.1 | 4.07 | PSR17001844.hg.1 | ALOX15B |
| TC17000124.hg.1 | 2.05 | PSR17001841.hg.1 | ALOX15B |
| TC17000124.hg.1 | -2.3 | PSR17001832.hg.1 | ALOX15B |
| TC17000124.hg.1 | -2.61 | PSR17001833.hg.1 | ALOX15B |
| TC17000124.hg.1 | -3.04 | JUC17001074.hg.1 | ALOX15B |
| TC17000124.hg.1 | -3.09 | JUC17001080.hg.1 | ALOX15B |
| TC17000124.hg.1 | -3.28 | PSR17001840.hg.1 | ALOX15B |
| TC17000124.hg.1 | -5.39 | JUC17001081.hg.1 | ALOX15B |
| TC17000124.hg.1 | -6.27 | PSR17001829.hg.1 | ALOX15B |
| TC08002617.hg.1 | 12.7 | JUC08015262.hg.1 | TPD52 |
| TC08002617.hg.1 | 8.85 | JUC08015265.hg.1 | TPD52 |
| TC08002617.hg.1 | 5.33 | JUC08015282.hg.1 | TPD52 |
| TC08002617.hg.1 | 4.61 | JUC08015270.hg.1 | TPD52 |
| TC08002617.hg.1 | 4.3 | JUC08015264.hg.1 | TPD52 |
| TC08002617.hg.1 | 4.2 | PSR08017513.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.87 | PSR08017500.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.81 | JUC08015275.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.69 | JUC08015285.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.47 | JUC08015272.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.4 | PSR08017517.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.16 | PSR08017503.hg.1 | TPD52 |
| TC08002617.hg.1 | 3.04 | JUC08015288.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.99 | PSR08017522.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.94 | PSR08017523.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.92 | PSR08017456.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.87 | PSR08017475.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.8 | PSR08017511.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.76 | PSR08017501.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.72 | PSR08017507.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.72 | PSR08017521.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.72 | JUC08015290.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.68 | PSR08017508.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.57 | PSR08017478.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.55 | PSR08017457.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.55 | PSR08017516.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.41 | PSR08017520.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.35 | PSR08017458.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.35 | PSR08017488.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.31 | PSR08017506.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.25 | PSR08017505.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.24 | JUC08015261.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.22 | PSR08017499.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.09 | PSR08017474.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.07 | PSR08017487.hg.1 | TPD52 |
| TC08002617.hg.1 | 2.04 | PSR08017510.hg.1 | TPD52 |
| TC15000585.hg.1 | 12.49 | JUC15002316.hg.1 | FBXL22 |
| TC15000585.hg.1 | 2.93 | PSR15004731.hg.1 | FBXL22 |
| TC01003718.hg.1 | 12.2 | PSR01057083.hg.1 | CHI3L1 |
| TC01003718.hg.1 | 7.71 | PSR01057064.hg.1 | CHI3L1 |
| TC01003718.hg.1 | 2.71 | PSR01057073.hg.1 | CHI3L1 |
| TC01003718.hg.1 | 2.57 | PSR01057081.hg.1 | CHI3L1 |
| TC01003718.hg.1 | 2.42 | PSR01057068.hg.1 | CHI3L1 |
| TC01003718.hg.1 | -2.56 | PSR01057067.hg.1 | CHI3L1 |
| TC01003718.hg.1 | -2.67 | JUC01029778.hg.1 | CHI3L1 |
| TC01003718.hg.1 | -2.76 | JUC01029775.hg.1 | CHI3L1 |
| TC01003718.hg.1 | -3.06 | PSR01057058.hg.1 | CHI3L1 |
| TC01003718.hg.1 | -4 | JUC01029780.hg.1 | CHI3L1 |
| TC06000087.hg.1 | 12.17 | PSR06000920.hg.1 | EDN1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC06000087.hg.1 | 9.91 | PSR06000919.hg.1 | EDN1 |
| TC06000087.hg.1 | 9.23 | PSR06000926.hg.1 | EDN1 |
| TC06000087.hg.1 | 9.08 | PSR06000929.hg.1 | EDN1 |
| TC06000087.hg.1 | 7.46 | PSR06000921.hg.1 | EDN1 |
| TC06000087.hg.1 | 4.46 | PSR06000925.hg.1 | EDN1 |
| TC06000087.hg.1 | 3.25 | PSR06000932.hg.1 | EDN1 |
| TC06000087.hg.1 | -2.95 | JUC06000412.hg.1 | EDN1 |
| TC11002162.hg.1 | 12.06 | PSR11025898.hg.1 | SYTL2 |
| TC11002162.hg.1 | 8.19 | PSR11025902.hg.1 | SYTL2 |
| TC11002162.hg.1 | 7.55 | PSR11025913.hg.1 | SYTL2 |
| TC11002162.hg.1 | 7.43 | PSR11025895.hg.1 | SYTL2 |
| TC11002162.hg.1 | 7.2 | PSR11025897.hg.1 | SYTL2 |
| TC11002162.hg.1 | 7.06 | JUC11013740.hg.1 | SYTL2 |
| TC11002162.hg.1 | 6.87 | PSR11025879.hg.1 | SYTL2 |
| TC11002162.hg.1 | 6.6 | JUC11013751.hg.1 | SYTL2 |
| TC11002162.hg.1 | 6.05 | JUC11013732.hg.1 | SYTL2 |
| TC11002162.hg.1 | 6.03 | JUC11013730.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.96 | PSR11025865.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.87 | PSR11025896.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.53 | JUC11013729.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.43 | PSR11025912.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.22 | JUC11013746.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.09 | PSR11025910.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.04 | JUC11013743.hg.1 | SYTL2 |
| TC11002162.hg.1 | 5.02 | JUC11013750.hg.1 | SYTL2 |
| TC11002162.hg.1 | 4.82 | PSR11025892.hg.1 | SYTL2 |
| TC11002162.hg.1 | 4.44 | JUC11013747.hg.1 | SYTL2 |
| TC11002162.hg.1 | 4.29 | PSR11025900.hg.1 | SYTL2 |
| TC11002162.hg.1 | 4.16 | JUC11013753.hg.1 | SYTL2 |
| TC11002162.hg.1 | 4.11 | PSR11025887.hg.1 | SYTL2 |
| TC11002162.hg.1 | 4.03 | PSR11025907.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.72 | PSR11025908.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.7 | PSR11025903.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.69 | PSR11025909.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.67 | JUC11013756.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.64 | PSR11025867.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.62 | JUC11013734.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.52 | PSR11025888.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.47 | JUC11013749.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.27 | JUC11013754.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.26 | PSR11025906.hg.1 | SYTL2 |
| TC11002162.hg.1 | 3.07 | PSR11025881.hg.1 | SYTL2 |
| TC11002162.hg.1 | 2.84 | PSR11025904.hg.1 | SYTL2 |
| TC11002162.hg.1 | 2.73 | JUC11013742.hg.1 | SYTL2 |
| TC11002162.hg.1 | 2.69 | JUC11013733.hg.1 | SYTL2 |
| TC11002162.hg.1 | 2.59 | JUC11013736.hg.1 | SYTL2 |
| TC11002162.hg.1 | 2.1 | JUC11013738.hg.1 | SYTL2 |
| TC11002162.hg.1 | -2.08 | JUC11013744.hg.1 | SYTL2 |
| TC10002952.hg.1 | 12.02 | JUC10017425.hg.1 | ARHGAP19 |
| TC10002952.hg.1 | 6.14 | JUC10017418.hg.1 | ARHGAP19 |
| TC10002952.hg.1 | -2.09 | PSR10019899.hg.1 | ARHGAP19 |
| TC07001611.hg.1 | 11.96 | JUC07012180.hg.1 | TFPI2 |
| TC07001611.hg.1 | 3.98 | JUC07012179.hg.1 | TFPI2 |
| TC07001611.hg.1 | 3.69 | PSR07024439.hg.1 | TFPI2 |
| TC07001611.hg.1 | 3.01 | PSR07024432.hg.1 | TFPI2 |
| TC07001611.hg.1 | 2.79 | PSR07024431.hg.1 | TFPI2 |
| TC07001611.hg.1 | -2.25 | PSR07024441.hg.1 | TFPI2 |
| TC07001611.hg.1 | -2.72 | PSR07024443.hg.1 | TFPI2 |

| | | | |
|------------------|-------|-------------------|----------|
| TC15001219.hg.1 | 11.95 | JUC15005791.hg.1 | |
| TC15001219.hg.1 | 6.23 | PSR15010956.hg.1 | |
| TC15001219.hg.1 | 5.86 | JUC15005790.hg.1 | |
| TC15001219.hg.1 | 3.29 | PSR15010954.hg.1 | |
| TC15001219.hg.1 | 2.81 | PSR15010957.hg.1 | |
| TC15001219.hg.1 | 2.67 | PSR15010955.hg.1 | |
| TC15001219.hg.1 | -2.22 | PSR15010951.hg.1 | |
| TC15001219.hg.1 | -2.54 | PSR15010952.hg.1 | |
| TC15001219.hg.1 | -2.98 | PSR15010953.hg.1 | |
| TC15001219.hg.1 | -4.65 | PSR15010958.hg.1 | |
| TC15001219.hg.1 | -13.7 | JUC15005792.hg.1 | |
| TC03001038.hg.1 | 11.92 | JUC03009289.hg.1 | LPP |
| TC03001038.hg.1 | 6.04 | JUC03009315.hg.1 | LPP |
| TC03001038.hg.1 | 4.18 | JUC03009293.hg.1 | LPP |
| TC03001038.hg.1 | 2.93 | PSR03018388.hg.1 | LPP |
| TC03001038.hg.1 | 2.9 | PSR03018355.hg.1 | LPP |
| TC03001038.hg.1 | 2.14 | PSR03018394.hg.1 | LPP |
| TC03001038.hg.1 | -2.66 | JUC03009297.hg.1 | LPP |
| TC17000861.hg.1 | 11.9 | JUC17006242.hg.1 | ITGB4 |
| TC17000861.hg.1 | 5.4 | JUC17006231.hg.1 | ITGB4 |
| TC17000861.hg.1 | 4.28 | JUC17006239.hg.1 | ITGB4 |
| TC17000861.hg.1 | 3.82 | JUC17006237.hg.1 | ITGB4 |
| TC17000861.hg.1 | 3.23 | PSR17011214.hg.1 | ITGB4 |
| TC17000861.hg.1 | 3.16 | JUC17006233.hg.1 | ITGB4 |
| TC17000861.hg.1 | 2.99 | JUC17006257.hg.1 | ITGB4 |
| TC17000861.hg.1 | 2.46 | JUC17006240.hg.1 | ITGB4 |
| TC17000861.hg.1 | 2.13 | JUC17006267.hg.1 | ITGB4 |
| TC17000861.hg.1 | -2.09 | JUC17006236.hg.1 | ITGB4 |
| TC01002075.hg.1 | 11.77 | JUC01017039.hg.1 | FAM41C |
| TC01002075.hg.1 | 2.45 | PSR01031378.hg.1 | FAM41C |
| TC6_cox_hap2000 | 11.75 | JUC6_cox_hap20017 | HLA-DPB1 |
| TC6_cox_hap2000 | 5.68 | PSR6_cox_hap20018 | HLA-DPB1 |
| TC6_cox_hap2000 | 5.57 | JUC6_cox_hap20017 | HLA-DPB1 |
| TC6_cox_hap2000 | 5.26 | PSR6_cox_hap20018 | HLA-DPB1 |
| TC6_cox_hap2000 | 4.97 | JUC6_cox_hap20017 | HLA-DPB1 |
| TC6_cox_hap2000 | 4.53 | PSR6_cox_hap20018 | HLA-DPB1 |
| TC6_cox_hap2000 | 4.34 | PSR6_cox_hap20018 | HLA-DPB1 |
| TC6_cox_hap2000 | 3.76 | PSR6_cox_hap20018 | HLA-DPB1 |
| TC6_cox_hap2000 | 3.11 | PSR6_cox_hap20018 | HLA-DPB1 |
| TC6_cox_hap2000 | 2.72 | JUC6_cox_hap20017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 11.7 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 5.65 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 5.55 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 5.24 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 5.23 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 4.95 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 4.52 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 4.3 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 3.33 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 3.1 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 3.06 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 3 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 2.96 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 2.71 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC6_qbl_hap60002 | 2.06 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | 2.04 | PSR6_qbl_hap60018 | HLA-DPB1 |
| TC6_qbl_hap60002 | -2.35 | JUC6_qbl_hap60017 | HLA-DPB1 |
| TC1000022.hg.1 | 11.67 | JUC10000125.hg.1 | PFKP |

| | | | |
|-----------------|-------|------------------|-------|
| TC1000022.hg.1 | 7.77 | JUC10000130.hg.1 | PFKP |
| TC1000022.hg.1 | 6.94 | PSR10000188.hg.1 | PFKP |
| TC1000022.hg.1 | 5.62 | PSR10000197.hg.1 | PFKP |
| TC1000022.hg.1 | 5.25 | PSR10000189.hg.1 | PFKP |
| TC1000022.hg.1 | 5.05 | PSR10000212.hg.1 | PFKP |
| TC1000022.hg.1 | 4.99 | PSR10000185.hg.1 | PFKP |
| TC1000022.hg.1 | 4.47 | JUC10000124.hg.1 | PFKP |
| TC1000022.hg.1 | 4.38 | PSR10000237.hg.1 | PFKP |
| TC1000022.hg.1 | 4.34 | PSR10000203.hg.1 | PFKP |
| TC1000022.hg.1 | 4.03 | JUC10000133.hg.1 | PFKP |
| TC1000022.hg.1 | 3.88 | PSR10000204.hg.1 | PFKP |
| TC1000022.hg.1 | 3.83 | JUC10000117.hg.1 | PFKP |
| TC1000022.hg.1 | 3.81 | PSR10000187.hg.1 | PFKP |
| TC1000022.hg.1 | 3.61 | JUC10000134.hg.1 | PFKP |
| TC1000022.hg.1 | 3.6 | PSR10000192.hg.1 | PFKP |
| TC1000022.hg.1 | 3.55 | PSR10000205.hg.1 | PFKP |
| TC1000022.hg.1 | 2.86 | PSR10000222.hg.1 | PFKP |
| TC1000022.hg.1 | 2.78 | PSR10000225.hg.1 | PFKP |
| TC1000022.hg.1 | 2.61 | PSR10000207.hg.1 | PFKP |
| TC1000022.hg.1 | 2.41 | PSR10000226.hg.1 | PFKP |
| TC1000022.hg.1 | 2.07 | PSR10000194.hg.1 | PFKP |
| TC0Y000185.hg.1 | 11.65 | JUC0Y001153.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 11.12 | PSR0Y001862.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 9.66 | JUC0Y001180.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 9.48 | PSR0Y001860.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 6.88 | JUC0Y001164.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 5.93 | PSR0Y001818.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 5.34 | PSR0Y001859.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 3.56 | JUC0Y001158.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 3.44 | PSR0Y001817.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 3.18 | PSR0Y001816.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 2.07 | PSR0Y001856.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 2.03 | JUC0Y001186.hg.1 | KDM5D |
| TC0Y000185.hg.1 | 2.01 | PSR0Y001857.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.06 | PSR0Y001835.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.12 | PSR0Y001825.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.34 | PSR0Y001854.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.34 | JUC0Y001178.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.41 | JUC0Y001166.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.58 | PSR0Y001840.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.71 | PSR0Y001838.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.94 | PSR0Y001830.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -2.98 | JUC0Y001183.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.01 | PSR0Y001837.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.15 | JUC0Y001173.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.4 | JUC0Y001184.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.43 | PSR0Y001841.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.49 | PSR0Y001820.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.56 | JUC0Y001155.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.57 | PSR0Y001849.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.68 | JUC0Y001181.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.85 | PSR0Y001842.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -3.97 | PSR0Y001836.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -4 | PSR0Y001851.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -4.14 | JUC0Y001182.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -4.47 | PSR0Y001824.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -4.59 | JUC0Y001154.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -4.78 | PSR0Y001826.hg.1 | KDM5D |

| | | | |
|------------------|-------|-------------------|----------|
| TC0Y000185.hg.1 | -5.01 | JUC0Y001188.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -6.18 | JUC0Y001159.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -6.88 | JUC0Y001176.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -7.57 | JUC0Y001157.hg.1 | KDM5D |
| TC0Y000185.hg.1 | -7.69 | JUC0Y001185.hg.1 | KDM5D |
| TC6_dbb_hap3000 | 11.64 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_dbb_hap3000 | 5.63 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 5.53 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_dbb_hap3000 | 5.21 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 5.2 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_dbb_hap3000 | 4.92 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_dbb_hap3000 | 4.49 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 4.17 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 3.32 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_dbb_hap3000 | 3.09 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 3.05 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 2.98 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 2.94 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 2.7 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_dbb_hap3000 | 2.13 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | 2.05 | PSR6_dbb_hap3001 | HLA-DPB1 |
| TC6_dbb_hap3000 | -2.36 | JUC6_dbb_hap3000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 11.64 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 5.63 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 5.53 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 5.21 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 5.2 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 4.92 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 4.49 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 4.17 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 3.32 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 3.09 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 3.05 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 2.98 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 2.94 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 2.7 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC6_ssto_hap7000 | 2.13 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | 2.05 | PSR6_ssto_hap7001 | HLA-DPB1 |
| TC6_ssto_hap7000 | -2.36 | JUC6_ssto_hap7000 | HLA-DPB1 |
| TC04000584.hg.1 | 11.59 | JUC04004492.hg.1 | ANK2 |
| TC04000584.hg.1 | 9.78 | JUC04004498.hg.1 | ANK2 |
| TC04000584.hg.1 | 7.48 | JUC04004543.hg.1 | ANK2 |
| TC04000584.hg.1 | 7.22 | JUC04004513.hg.1 | ANK2 |
| TC04000584.hg.1 | 6.36 | PSR04008544.hg.1 | ANK2 |
| TC04000584.hg.1 | 6.16 | JUC04004558.hg.1 | ANK2 |
| TC04000584.hg.1 | 5.83 | JUC04004509.hg.1 | ANK2 |
| TC04000584.hg.1 | 5.38 | JUC04004552.hg.1 | ANK2 |
| TC04000584.hg.1 | 5.25 | JUC04004544.hg.1 | ANK2 |
| TC04000584.hg.1 | 5.19 | JUC04004522.hg.1 | ANK2 |
| TC04000584.hg.1 | 5.13 | PSR04008543.hg.1 | ANK2 |
| TC04000584.hg.1 | 5.06 | PSR04008553.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.95 | PSR04008549.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.88 | JUC04004551.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.77 | PSR04008561.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.76 | PSR04008559.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.64 | JUC04004508.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.39 | PSR04008532.hg.1 | ANK2 |
| TC04000584.hg.1 | 4.17 | PSR04008541.hg.1 | ANK2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC04000584.hg.1 | 4.05 | PSR04008546.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.88 | JUC04004531.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.87 | JUC04004521.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.82 | JUC04004512.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.76 | PSR04008555.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.69 | PSR04008547.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.64 | PSR04008552.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.62 | PSR04008557.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.54 | PSR04008560.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.43 | PSR04008551.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.38 | JUC04004519.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.33 | PSR04008554.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.09 | PSR04008550.hg.1 | ANK2 |
| TC04000584.hg.1 | 3.05 | PSR04008526.hg.1 | ANK2 |
| TC04000584.hg.1 | 3 | PSR04008542.hg.1 | ANK2 |
| TC04000584.hg.1 | 2.88 | JUC04004538.hg.1 | ANK2 |
| TC04000584.hg.1 | 2.78 | PSR04008558.hg.1 | ANK2 |
| TC04000584.hg.1 | 2.76 | JUC04004523.hg.1 | ANK2 |
| TC04000584.hg.1 | 2.65 | PSR04008556.hg.1 | ANK2 |
| TC04000584.hg.1 | 2.45 | JUC04004532.hg.1 | ANK2 |
| TC04000584.hg.1 | 2.4 | JUC04004524.hg.1 | ANK2 |
| TC04000584.hg.1 | -2.07 | PSR04008595.hg.1 | ANK2 |
| TC04000584.hg.1 | -2.18 | PSR04008618.hg.1 | ANK2 |
| TC04000584.hg.1 | -2.87 | JUC04004496.hg.1 | ANK2 |
| TC6_mann_hap400 | 11.56 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 5.59 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 5.48 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 5.17 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 5.17 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 4.89 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 4.46 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 4.24 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 3.29 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 3.06 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 3.02 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 2.96 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 2.92 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 2.68 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 2.39 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | 2.04 | PSR6_mann_hap400 | HLA-DPB1 |
| TC6_mann_hap400 | -2.38 | JUC6_mann_hap400 | HLA-DPB1 |
| TC6_apd_hap1000 | 11.51 | JUC6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 5.56 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 5.46 | JUC6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 5.15 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 5.15 | JUC6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 4.87 | JUC6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 4.44 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 4.23 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 3.28 | JUC6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 3.05 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 3.01 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 2.95 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 2.91 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 2.67 | JUC6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 2.56 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | 2.03 | PSR6_apd_hap1000 | HLA-DPB1 |
| TC6_apd_hap1000 | -2.39 | JUC6_apd_hap1000 | HLA-DPB1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC6_mcf_hap5000 | 11.51 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 5.56 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 5.46 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 5.15 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 5.15 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 4.87 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 4.44 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 4.23 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 3.28 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 3.05 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 3.01 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 2.95 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 2.91 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 2.67 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 2.56 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | 2.03 | PSR6_mcf_hap5001 | HLA-DPB1 |
| TC6_mcf_hap5000 | -2.39 | JUC6_mcf_hap5001 | HLA-DPB1 |
| TC14000371.hg.1 | 11.39 | JUC14002036.hg.1 | PRKCH |
| TC14000371.hg.1 | 2.45 | PSR14004091.hg.1 | PRKCH |
| TC01006414.hg.1 | 11.35 | PSR01053860.hg.1 | RGS5 |
| TC01006414.hg.1 | 10.95 | JUC01046795.hg.1 | RGS5 |
| TC01006414.hg.1 | 5.7 | PSR01053864.hg.1 | RGS5 |
| TC01006414.hg.1 | 5.32 | JUC01046803.hg.1 | RGS5 |
| TC01006414.hg.1 | 3.84 | PSR01053854.hg.1 | RGS5 |
| TC01006414.hg.1 | 3.01 | PSR01053857.hg.1 | RGS5 |
| TC01006414.hg.1 | 2.96 | JUC01046799.hg.1 | RGS5 |
| TC01006414.hg.1 | 2.28 | PSR01053861.hg.1 | RGS5 |
| TC01006414.hg.1 | -2.19 | PSR01053852.hg.1 | RGS5 |
| TC16000099.hg.1 | 11.33 | JUC16000854.hg.1 | IL32 |
| TC16000099.hg.1 | 7.86 | PSR16001819.hg.1 | IL32 |
| TC16000099.hg.1 | 6.01 | PSR16001753.hg.1 | IL32 |
| TC16000099.hg.1 | 5.71 | PSR16001820.hg.1 | IL32 |
| TC16000099.hg.1 | 5.02 | PSR16001806.hg.1 | IL32 |
| TC16000099.hg.1 | 4.8 | PSR16001804.hg.1 | IL32 |
| TC16000099.hg.1 | 4.74 | PSR16001834.hg.1 | IL32 |
| TC16000099.hg.1 | 4.67 | PSR16001801.hg.1 | IL32 |
| TC16000099.hg.1 | 4.55 | PSR16001759.hg.1 | IL32 |
| TC16000099.hg.1 | 4.38 | PSR16001810.hg.1 | IL32 |
| TC16000099.hg.1 | 4.33 | JUC16000855.hg.1 | IL32 |
| TC16000099.hg.1 | 4.07 | PSR16001780.hg.1 | IL32 |
| TC16000099.hg.1 | 3.94 | PSR16001835.hg.1 | IL32 |
| TC16000099.hg.1 | 3.25 | JUC16000858.hg.1 | IL32 |
| TC16000099.hg.1 | 3.18 | PSR16001831.hg.1 | IL32 |
| TC16000099.hg.1 | 3.11 | JUC16000850.hg.1 | IL32 |
| TC16000099.hg.1 | 3.1 | PSR16001798.hg.1 | IL32 |
| TC16000099.hg.1 | 3.05 | PSR16001800.hg.1 | IL32 |
| TC16000099.hg.1 | 2.56 | PSR16001760.hg.1 | IL32 |
| TC16000099.hg.1 | 2.34 | JUC16000867.hg.1 | IL32 |
| TC16000099.hg.1 | 2.16 | JUC16000849.hg.1 | IL32 |
| TC08000700.hg.1 | 11.22 | PSR08009448.hg.1 | COL14A1 |
| TC08000700.hg.1 | 10.86 | JUC08004851.hg.1 | COL14A1 |
| TC08000700.hg.1 | 8.88 | PSR08009444.hg.1 | COL14A1 |
| TC08000700.hg.1 | 8.26 | PSR08009445.hg.1 | COL14A1 |
| TC08000700.hg.1 | 6.33 | PSR08009467.hg.1 | COL14A1 |
| TC08000700.hg.1 | 5.14 | JUC08004872.hg.1 | COL14A1 |
| TC08000700.hg.1 | 4.09 | JUC08004864.hg.1 | COL14A1 |
| TC08000700.hg.1 | 3.7 | JUC08004871.hg.1 | COL14A1 |
| TC08000700.hg.1 | 3.1 | JUC08004823.hg.1 | COL14A1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC08000700.hg.1 | 2.22 | JUC08004833.hg.1 | COL14A1 |
| TC08000700.hg.1 | -2.39 | PSR08009513.hg.1 | COL14A1 |
| TC08000700.hg.1 | -2.62 | JUC08004845.hg.1 | COL14A1 |
| TC08000700.hg.1 | -2.78 | JUC08004856.hg.1 | COL14A1 |
| TC08000700.hg.1 | -3.27 | PSR08009485.hg.1 | COL14A1 |
| TC08000700.hg.1 | -8.26 | JUC08004854.hg.1 | COL14A1 |
| TC10001699.hg.1 | 11.21 | PSR10022383.hg.1 | EIF3A, SNOR |
| TC10001699.hg.1 | 2.23 | JUC10012980.hg.1 | EIF3A, SNOR |
| TC09001092.hg.1 | 11.16 | JUC09007810.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 3.24 | JUC09007819.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.89 | JUC09007841.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.73 | JUC09007812.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.72 | JUC09007820.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.71 | PSR09014558.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.67 | JUC09007827.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.6 | PSR09014553.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.31 | JUC09007831.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.12 | PSR09014592.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.09 | PSR09014609.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.03 | PSR09014557.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2.02 | JUC09007813.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | 2 | PSR09014585.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -2.44 | JUC09007815.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -2.6 | PSR09014584.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -2.63 | JUC09007826.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -2.98 | JUC09007834.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -3.3 | PSR09014598.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -3.76 | JUC09007836.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -5.93 | JUC09007817.hg.1 | CNTNAP3 |
| TC09001092.hg.1 | -6.41 | JUC09007840.hg.1 | CNTNAP3 |
| TC01006284.hg.1 | 11.11 | JUC01039220.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 10.04 | JUC01039205.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 8.31 | JUC01039217.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 5.85 | JUC01039218.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 5.02 | JUC01039213.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 4.49 | PSR01016703.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 3.91 | PSR01016696.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 3.24 | PSR01016698.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 3.21 | PSR01016697.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 3.14 | PSR01016701.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 3.07 | PSR01016694.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 2.99 | PSR01016693.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 2.73 | JUC01039216.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 2.54 | PSR01016685.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 2.21 | PSR01016687.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 2.21 | PSR01016695.hg.1 | LOC1002890 |
| TC01006284.hg.1 | 2.07 | PSR01016690.hg.1 | LOC1002890 |
| TC03000013.hg.1 | 11.09 | PSR03000336.hg.1 | ITPR1 |
| TC03000013.hg.1 | 8.48 | PSR03000269.hg.1 | ITPR1 |
| TC03000013.hg.1 | 7.03 | JUC03000164.hg.1 | ITPR1 |
| TC03000013.hg.1 | 6.93 | JUC03000200.hg.1 | ITPR1 |
| TC03000013.hg.1 | 6.26 | JUC03000191.hg.1 | ITPR1 |
| TC03000013.hg.1 | 6.06 | PSR03000355.hg.1 | ITPR1 |
| TC03000013.hg.1 | 5.88 | PSR03000259.hg.1 | ITPR1 |
| TC03000013.hg.1 | 5.72 | JUC03000182.hg.1 | ITPR1 |
| TC03000013.hg.1 | 5.6 | JUC03000174.hg.1 | ITPR1 |
| TC03000013.hg.1 | 5.19 | JUC03000179.hg.1 | ITPR1 |
| TC03000013.hg.1 | 5.1 | PSR03000285.hg.1 | ITPR1 |

| | | | |
|-----------------|-------|------------------|-------|
| TC03000013.hg.1 | 5.08 | PSR03000332.hg.1 | ITPR1 |
| TC03000013.hg.1 | 5.02 | PSR03000335.hg.1 | ITPR1 |
| TC03000013.hg.1 | 4.91 | PSR03000327.hg.1 | ITPR1 |
| TC03000013.hg.1 | 4.69 | PSR03000356.hg.1 | ITPR1 |
| TC03000013.hg.1 | 4.55 | PSR03000345.hg.1 | ITPR1 |
| TC03000013.hg.1 | 4.36 | JUC03000210.hg.1 | ITPR1 |
| TC03000013.hg.1 | 4.29 | JUC03000152.hg.1 | ITPR1 |
| TC03000013.hg.1 | 4.13 | PSR03000314.hg.1 | ITPR1 |
| TC03000013.hg.1 | 3.43 | JUC03000180.hg.1 | ITPR1 |
| TC03000013.hg.1 | 3.32 | PSR03000342.hg.1 | ITPR1 |
| TC03000013.hg.1 | 3.23 | JUC03000216.hg.1 | ITPR1 |
| TC03000013.hg.1 | 3.01 | JUC03000186.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.78 | PSR03000312.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.77 | JUC03000176.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.75 | JUC03000148.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.74 | JUC03000166.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.7 | PSR03000274.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.53 | PSR03000307.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.53 | JUC03000212.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.43 | PSR03000295.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.35 | PSR03000354.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.29 | JUC03000190.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.25 | JUC03000208.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.22 | JUC03000155.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.15 | PSR03000311.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.14 | PSR03000258.hg.1 | ITPR1 |
| TC03000013.hg.1 | 2.13 | PSR03000337.hg.1 | ITPR1 |
| TC03000013.hg.1 | -2.05 | JUC03000196.hg.1 | ITPR1 |
| TC03000013.hg.1 | -2.18 | PSR03000346.hg.1 | ITPR1 |
| TC03000013.hg.1 | -2.4 | JUC03000163.hg.1 | ITPR1 |
| TC03000013.hg.1 | -2.83 | JUC03000202.hg.1 | ITPR1 |
| TC03000013.hg.1 | -2.99 | JUC03000170.hg.1 | ITPR1 |
| TC01000054.hg.1 | 10.77 | JUC01000374.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.66 | PSR01000795.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.55 | PSR01000759.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.51 | JUC01000404.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.5 | PSR01000768.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.49 | PSR01000798.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.47 | JUC01000378.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.41 | PSR01000758.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.39 | PSR01000769.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.33 | PSR01000748.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.24 | JUC01000390.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.21 | PSR01000752.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.12 | PSR01000760.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.04 | PSR01000779.hg.1 | PRKCZ |
| TC01000054.hg.1 | 3.01 | PSR01000767.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.9 | PSR01000753.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.85 | PSR01000757.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.79 | PSR01000751.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.6 | PSR01000806.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.59 | PSR01000754.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.52 | JUC01000405.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.5 | PSR01000796.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.44 | PSR01000749.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.42 | PSR01000761.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.36 | PSR01000756.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.35 | PSR01000811.hg.1 | PRKCZ |

| | | | |
|-----------------|-------|------------------|-------|
| TC01000054.hg.1 | 2.29 | PSR01000772.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.24 | PSR01000809.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.2 | PSR01000799.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.2 | PSR01000800.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.15 | PSR01000805.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.15 | JUC01000409.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.13 | PSR01000810.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.12 | PSR01000808.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.09 | PSR01000755.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.08 | PSR01000807.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2.03 | PSR01000765.hg.1 | PRKCZ |
| TC01000054.hg.1 | 2 | PSR01000771.hg.1 | PRKCZ |
| TC6_mann_hap400 | 10.75 | JUC6_mann_hap400 | CFB |
| TC6_mann_hap400 | 9.61 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 8.92 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 8.65 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 8.14 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 7.14 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 5.03 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 4.47 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 3.77 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 3.76 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 3.56 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 2.62 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 2.55 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 2.25 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | 2.2 | PSR6_mann_hap400 | CFB |
| TC6_mann_hap400 | -2.4 | JUC6_mann_hap400 | CFB |
| TC6_mann_hap400 | -2.42 | JUC6_mann_hap400 | CFB |
| TC6_mann_hap400 | -2.66 | JUC6_mann_hap400 | CFB |
| TC08000250.hg.1 | 10.74 | JUC08001743.hg.1 | NRG1 |
| TC08000250.hg.1 | 5.63 | JUC08001769.hg.1 | NRG1 |
| TC08000250.hg.1 | 5.11 | PSR08003572.hg.1 | NRG1 |
| TC08000250.hg.1 | 3.44 | JUC08001752.hg.1 | NRG1 |
| TC08000250.hg.1 | 3.33 | PSR08003601.hg.1 | NRG1 |
| TC08000250.hg.1 | 2.87 | PSR08003602.hg.1 | NRG1 |
| TC08000250.hg.1 | 2.61 | PSR08003577.hg.1 | NRG1 |
| TC08000250.hg.1 | 2.4 | JUC08001760.hg.1 | NRG1 |
| TC08000250.hg.1 | 2.37 | JUC08001754.hg.1 | NRG1 |
| TC08000250.hg.1 | 2.22 | PSR08003576.hg.1 | NRG1 |
| TC08000250.hg.1 | 2.06 | JUC08001758.hg.1 | NRG1 |
| TC08000250.hg.1 | -2.82 | JUC08001742.hg.1 | NRG1 |
| TC08000250.hg.1 | -2.83 | PSR08003562.hg.1 | NRG1 |
| TC08000250.hg.1 | -2.99 | PSR08003597.hg.1 | NRG1 |
| TC08000250.hg.1 | -3.8 | PSR08003569.hg.1 | NRG1 |
| TC08000250.hg.1 | -3.9 | PSR08003567.hg.1 | NRG1 |
| TC08000250.hg.1 | -4.13 | PSR08003551.hg.1 | NRG1 |
| TC08000250.hg.1 | -4.15 | PSR08003565.hg.1 | NRG1 |
| TC08000250.hg.1 | -4.28 | PSR08003553.hg.1 | NRG1 |
| TC08000250.hg.1 | -4.56 | PSR08003549.hg.1 | NRG1 |
| TC08000250.hg.1 | -4.76 | JUC08001759.hg.1 | NRG1 |
| TC08000250.hg.1 | -4.78 | PSR08003563.hg.1 | NRG1 |
| TC08000250.hg.1 | -5.04 | PSR08003561.hg.1 | NRG1 |
| TC08000250.hg.1 | -5.11 | PSR08003568.hg.1 | NRG1 |
| TC08000250.hg.1 | -5.18 | PSR08003566.hg.1 | NRG1 |
| TC08000250.hg.1 | -5.41 | PSR08003598.hg.1 | NRG1 |
| TC08000250.hg.1 | -5.7 | PSR08003547.hg.1 | NRG1 |
| TC08000250.hg.1 | -6.14 | PSR08003550.hg.1 | NRG1 |

| | | | |
|-----------------|-------|------------------|------|
| TC08000250.hg.1 | -6.57 | JUC08001756.hg.1 | NRG1 |
| TC08000250.hg.1 | -6.9 | PSR08003559.hg.1 | NRG1 |
| TC08000250.hg.1 | -7.1 | PSR08003552.hg.1 | NRG1 |
| TC08000250.hg.1 | -7.17 | JUC08001767.hg.1 | NRG1 |
| TC08000250.hg.1 | -7.22 | PSR08003564.hg.1 | NRG1 |
| TC08000250.hg.1 | -7.32 | PSR08003560.hg.1 | NRG1 |
| TC08000250.hg.1 | -7.36 | PSR08003557.hg.1 | NRG1 |
| TC08000250.hg.1 | -7.85 | PSR08003556.hg.1 | NRG1 |
| TC08000250.hg.1 | -8.52 | JUC08001746.hg.1 | NRG1 |
| TC08000250.hg.1 | -14.8 | JUC08001762.hg.1 | NRG1 |
| TC02000466.hg.1 | 10.7 | JUC02003726.hg.1 | HK2 |
| TC02000466.hg.1 | 5.79 | PSR02007337.hg.1 | HK2 |
| TC02000466.hg.1 | 5.08 | PSR02007342.hg.1 | HK2 |
| TC02000466.hg.1 | 4.86 | PSR02007346.hg.1 | HK2 |
| TC02000466.hg.1 | 4.19 | PSR02007353.hg.1 | HK2 |
| TC02000466.hg.1 | 4.05 | JUC02003722.hg.1 | HK2 |
| TC02000466.hg.1 | 3.15 | PSR02007354.hg.1 | HK2 |
| TC02000466.hg.1 | 3.02 | JUC02003716.hg.1 | HK2 |
| TC02000466.hg.1 | 2.77 | JUC02003719.hg.1 | HK2 |
| TC02000466.hg.1 | 2.26 | PSR02007367.hg.1 | HK2 |
| TC02000466.hg.1 | 2.17 | PSR02007366.hg.1 | HK2 |
| TC02000466.hg.1 | 2.06 | JUC02003723.hg.1 | HK2 |
| TC02000466.hg.1 | 2 | JUC02003727.hg.1 | HK2 |
| TC02000466.hg.1 | -2 | PSR02007349.hg.1 | HK2 |
| TC02000466.hg.1 | -2.09 | JUC02003731.hg.1 | HK2 |
| TC02000466.hg.1 | -2.16 | PSR02007359.hg.1 | HK2 |
| TC02000466.hg.1 | -2.63 | PSR02007357.hg.1 | HK2 |
| TC02000466.hg.1 | -3.97 | JUC02003734.hg.1 | HK2 |
| TC02000466.hg.1 | -4.54 | JUC02003720.hg.1 | HK2 |
| TC19001103.hg.1 | 10.7 | PSR19015185.hg.1 | C3 |
| TC19001103.hg.1 | 9.07 | PSR19015175.hg.1 | C3 |
| TC19001103.hg.1 | 8.9 | PSR19015164.hg.1 | C3 |
| TC19001103.hg.1 | 8.29 | PSR19015139.hg.1 | C3 |
| TC19001103.hg.1 | 7.97 | PSR19015126.hg.1 | C3 |
| TC19001103.hg.1 | 7.61 | PSR19015184.hg.1 | C3 |
| TC19001103.hg.1 | 6.65 | PSR19015130.hg.1 | C3 |
| TC19001103.hg.1 | 6.53 | PSR19015157.hg.1 | C3 |
| TC19001103.hg.1 | 6.32 | PSR19015177.hg.1 | C3 |
| TC19001103.hg.1 | 6.12 | PSR19015151.hg.1 | C3 |
| TC19001103.hg.1 | 6.03 | PSR19015186.hg.1 | C3 |
| TC19001103.hg.1 | 5.08 | JUC19008614.hg.1 | C3 |
| TC19001103.hg.1 | 4.71 | PSR19015159.hg.1 | C3 |
| TC19001103.hg.1 | 4.14 | JUC19008609.hg.1 | C3 |
| TC19001103.hg.1 | 4.08 | JUC19008607.hg.1 | C3 |
| TC19001103.hg.1 | 3.01 | JUC19008618.hg.1 | C3 |
| TC19001103.hg.1 | 2.51 | JUC19008621.hg.1 | C3 |
| TC19001103.hg.1 | 2.46 | PSR19015160.hg.1 | C3 |
| TC19001103.hg.1 | 2.33 | PSR19015166.hg.1 | C3 |
| TC19001103.hg.1 | 2.27 | PSR19015145.hg.1 | C3 |
| TC19001103.hg.1 | 2.26 | PSR19015181.hg.1 | C3 |
| TC19001103.hg.1 | 2.18 | PSR19015163.hg.1 | C3 |
| TC19001103.hg.1 | 2.1 | JUC19008590.hg.1 | C3 |
| TC19001103.hg.1 | 2.01 | JUC19008581.hg.1 | C3 |
| TC19001103.hg.1 | -2.01 | PSR19015174.hg.1 | C3 |
| TC19001103.hg.1 | -2.02 | JUC19008583.hg.1 | C3 |
| TC19001103.hg.1 | -2.06 | PSR19015135.hg.1 | C3 |
| TC19001103.hg.1 | -2.08 | JUC19008591.hg.1 | C3 |
| TC19001103.hg.1 | -2.12 | JUC19008617.hg.1 | C3 |

| | | | |
|-----------------|-------|------------------|----------|
| TC19001103.hg.1 | -2.16 | PSR19015127.hg.1 | C3 |
| TC19001103.hg.1 | -2.26 | PSR19015176.hg.1 | C3 |
| TC19001103.hg.1 | -2.45 | PSR19015153.hg.1 | C3 |
| TC19001103.hg.1 | -2.48 | JUC19008595.hg.1 | C3 |
| TC19001103.hg.1 | -2.61 | PSR19015128.hg.1 | C3 |
| TC19001103.hg.1 | -2.91 | JUC19008615.hg.1 | C3 |
| TC19001103.hg.1 | -3.03 | JUC19008603.hg.1 | C3 |
| TC19001103.hg.1 | -3.41 | JUC19008620.hg.1 | C3 |
| TC19001103.hg.1 | -5.99 | JUC19008588.hg.1 | C3 |
| TC22000583.hg.1 | 10.68 | JUC22004128.hg.1 | GSTT1 |
| TC22000583.hg.1 | 9.18 | JUC22004121.hg.1 | GSTT1 |
| TC22000583.hg.1 | 8.63 | JUC22004129.hg.1 | GSTT1 |
| TC22000583.hg.1 | 8.51 | PSR22010293.hg.1 | GSTT1 |
| TC22000583.hg.1 | 8.2 | PSR22010306.hg.1 | GSTT1 |
| TC22000583.hg.1 | 8.13 | JUC22004120.hg.1 | GSTT1 |
| TC22000583.hg.1 | 6.68 | PSR22010294.hg.1 | GSTT1 |
| TC22000583.hg.1 | 6.33 | PSR22010295.hg.1 | GSTT1 |
| TC22000583.hg.1 | 6.3 | PSR22010289.hg.1 | GSTT1 |
| TC22000583.hg.1 | 5.31 | JUC22004127.hg.1 | GSTT1 |
| TC22000583.hg.1 | 5.26 | PSR22010296.hg.1 | GSTT1 |
| TC22000583.hg.1 | 5.03 | PSR22010288.hg.1 | GSTT1 |
| TC22000583.hg.1 | 4.73 | PSR22010292.hg.1 | GSTT1 |
| TC22000583.hg.1 | 4.05 | PSR22010280.hg.1 | GSTT1 |
| TC22000583.hg.1 | 3.09 | JUC22004126.hg.1 | GSTT1 |
| TC22000583.hg.1 | -2.85 | JUC22004133.hg.1 | GSTT1 |
| TC12000516.hg.1 | 10.64 | JUC12003519.hg.1 | HSD17B6 |
| TC12000516.hg.1 | 4.75 | PSR12006776.hg.1 | HSD17B6 |
| TC12000516.hg.1 | 3.45 | PSR12006777.hg.1 | HSD17B6 |
| TC12000516.hg.1 | -2.45 | JUC12003516.hg.1 | HSD17B6 |
| TC12000516.hg.1 | -2.47 | PSR12006763.hg.1 | HSD17B6 |
| TC12000516.hg.1 | -2.94 | PSR12006771.hg.1 | HSD17B6 |
| TC01001792.hg.1 | 10.6 | PSR01028033.hg.1 | KCNK2 |
| TC01001792.hg.1 | 9.39 | JUC01015113.hg.1 | KCNK2 |
| TC01001792.hg.1 | 9.24 | PSR01028031.hg.1 | KCNK2 |
| TC01001792.hg.1 | 8.36 | JUC01015106.hg.1 | KCNK2 |
| TC01001792.hg.1 | 6.65 | PSR01028038.hg.1 | KCNK2 |
| TC01001792.hg.1 | 6.56 | JUC01015105.hg.1 | KCNK2 |
| TC01001792.hg.1 | 6.25 | PSR01028030.hg.1 | KCNK2 |
| TC01001792.hg.1 | 5.7 | JUC01015110.hg.1 | KCNK2 |
| TC01001792.hg.1 | 5.42 | PSR01028041.hg.1 | KCNK2 |
| TC01001792.hg.1 | 3.14 | JUC01015102.hg.1 | KCNK2 |
| TC01001792.hg.1 | 2.9 | PSR01028061.hg.1 | KCNK2 |
| TC01001792.hg.1 | 2.87 | JUC01015114.hg.1 | KCNK2 |
| TC01001792.hg.1 | 2.61 | PSR01028040.hg.1 | KCNK2 |
| TC01001792.hg.1 | 2.45 | PSR01028044.hg.1 | KCNK2 |
| TC01001792.hg.1 | -2.04 | PSR01028057.hg.1 | KCNK2 |
| TC01001792.hg.1 | -2.55 | PSR01028059.hg.1 | KCNK2 |
| TC01001792.hg.1 | -3.22 | JUC01015112.hg.1 | KCNK2 |
| TC06002020.hg.1 | 10.53 | PSR06025200.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 3.2 | PSR06025203.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.97 | PSR06025199.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.53 | PSR06025204.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.41 | PSR06025207.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.36 | PSR06025197.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.16 | PSR06025205.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.07 | JUC06012426.hg.1 | TRAF3IP2 |
| TC06002020.hg.1 | 2.06 | PSR06025209.hg.1 | TRAF3IP2 |
| TC05003409.hg.1 | 10.42 | JUC05019376.hg.1 | SH3TC2 |

| | | | |
|-----------------|-------|------------------|--------|
| TC05003409.hg.1 | 6.38 | PSR05026503.hg.1 | SH3TC2 |
| TC05003409.hg.1 | 3.69 | JUC05019388.hg.1 | SH3TC2 |
| TC05003409.hg.1 | 2.31 | JUC05019385.hg.1 | SH3TC2 |
| TC05003409.hg.1 | 2.25 | JUC05019405.hg.1 | SH3TC2 |
| TC05003409.hg.1 | 2.04 | PSR05026501.hg.1 | SH3TC2 |
| TC05003409.hg.1 | -2.08 | PSR05026534.hg.1 | SH3TC2 |
| TC05003409.hg.1 | -2.26 | JUC05019401.hg.1 | SH3TC2 |
| TC05003409.hg.1 | -5.29 | JUC05019386.hg.1 | SH3TC2 |
| TC04001030.hg.1 | 10.4 | JUC04007534.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 8.66 | JUC04007514.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.78 | JUC04007520.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.36 | JUC04007522.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.19 | PSR04014095.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.19 | PSR04014119.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.19 | JUC04007516.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.18 | PSR04014127.hg.1 | SLC2A9 |
| TC04001030.hg.1 | 2.03 | PSR04014121.hg.1 | SLC2A9 |
| TC04001030.hg.1 | -2.13 | JUC04007528.hg.1 | SLC2A9 |
| TC04001030.hg.1 | -2.42 | JUC04007513.hg.1 | SLC2A9 |
| TC04001030.hg.1 | -2.46 | JUC04007535.hg.1 | SLC2A9 |
| TC03002093.hg.1 | 10.26 | JUC03018366.hg.1 | MASP1 |
| TC03002093.hg.1 | 8.64 | JUC03018375.hg.1 | MASP1 |
| TC03002093.hg.1 | 8.2 | PSR03037133.hg.1 | MASP1 |
| TC03002093.hg.1 | 7.03 | PSR03037136.hg.1 | MASP1 |
| TC03002093.hg.1 | 6.78 | PSR03037131.hg.1 | MASP1 |
| TC03002093.hg.1 | 6.22 | JUC03018384.hg.1 | MASP1 |
| TC03002093.hg.1 | 5.93 | PSR03037157.hg.1 | MASP1 |
| TC03002093.hg.1 | 5.79 | JUC03018392.hg.1 | MASP1 |
| TC03002093.hg.1 | 5.29 | PSR03037149.hg.1 | MASP1 |
| TC03002093.hg.1 | 5.07 | PSR03037171.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.93 | PSR03037152.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.87 | PSR03037188.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.86 | PSR03037138.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.81 | JUC03018382.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.58 | JUC03018371.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.28 | PSR03037154.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.19 | JUC03018367.hg.1 | MASP1 |
| TC03002093.hg.1 | 4.01 | PSR03037177.hg.1 | MASP1 |
| TC03002093.hg.1 | 3.78 | PSR03037134.hg.1 | MASP1 |
| TC03002093.hg.1 | 3.62 | PSR03037155.hg.1 | MASP1 |
| TC03002093.hg.1 | 3.6 | PSR03037170.hg.1 | MASP1 |
| TC03002093.hg.1 | 3.2 | PSR03037135.hg.1 | MASP1 |
| TC03002093.hg.1 | 3.2 | PSR03037180.hg.1 | MASP1 |
| TC03002093.hg.1 | 3.09 | JUC03018378.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.81 | PSR03037175.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.79 | PSR03037184.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.7 | JUC03018389.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.66 | PSR03037132.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.42 | PSR03037137.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.29 | PSR03037182.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.22 | PSR03037168.hg.1 | MASP1 |
| TC03002093.hg.1 | 2.15 | PSR03037159.hg.1 | MASP1 |
| TC03002093.hg.1 | -2.01 | PSR03037150.hg.1 | MASP1 |
| TC03002093.hg.1 | -2.29 | PSR03037164.hg.1 | MASP1 |
| TC03002093.hg.1 | -3.4 | JUC03018380.hg.1 | MASP1 |
| TC03002093.hg.1 | -3.5 | JUC03018383.hg.1 | MASP1 |
| TC03002093.hg.1 | -4.63 | JUC03018388.hg.1 | MASP1 |
| TC03002093.hg.1 | -4.81 | JUC03018379.hg.1 | MASP1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC0X000230.hg.1 | 10.12 | JUC0X001461.hg.1 | CDK16 |
| TC0X000230.hg.1 | 4.47 | JUC0X001462.hg.1 | CDK16 |
| TC0X000230.hg.1 | 3.38 | PSR0X002664.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.64 | PSR0X002673.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.55 | JUC0X001459.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.52 | PSR0X002641.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.45 | PSR0X002681.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.44 | PSR0X002667.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.4 | PSR0X002642.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.29 | PSR0X002617.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.18 | PSR0X002666.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.13 | PSR0X002630.hg.1 | CDK16 |
| TC0X000230.hg.1 | 2.04 | PSR0X002616.hg.1 | CDK16 |
| TC01002725.hg.1 | 10.11 | PSR01042730.hg.1 | KANK4 |
| TC01002725.hg.1 | 3.77 | PSR01042731.hg.1 | KANK4 |
| TC01002725.hg.1 | 3.01 | PSR01042733.hg.1 | KANK4 |
| TC01002725.hg.1 | 2.7 | JUC01022827.hg.1 | KANK4 |
| TC01002725.hg.1 | 2.64 | PSR01042732.hg.1 | KANK4 |
| TC01002725.hg.1 | 2.26 | PSR01042740.hg.1 | KANK4 |
| TC01002725.hg.1 | 2.08 | JUC01022823.hg.1 | KANK4 |
| TC01002725.hg.1 | -2.32 | JUC01022829.hg.1 | KANK4 |
| TC01002725.hg.1 | -2.34 | PSR01042739.hg.1 | KANK4 |
| TC01002725.hg.1 | -2.36 | PSR01042742.hg.1 | KANK4 |
| TC01002725.hg.1 | -2.54 | JUC01022828.hg.1 | KANK4 |
| TC01002725.hg.1 | -2.63 | PSR01042744.hg.1 | KANK4 |
| TC01002725.hg.1 | -3.04 | PSR01042736.hg.1 | KANK4 |
| TC01002725.hg.1 | -3.74 | PSR01042738.hg.1 | KANK4 |
| TC01002725.hg.1 | -4.41 | PSR01042745.hg.1 | KANK4 |
| TC01002725.hg.1 | -4.48 | JUC01022821.hg.1 | KANK4 |
| TC07000425.hg.1 | 10.1 | JUC07002734.hg.1 | WBSCR17 |
| TC07000425.hg.1 | 6.83 | JUC07002727.hg.1 | WBSCR17 |
| TC07000425.hg.1 | 3.12 | PSR07005728.hg.1 | WBSCR17 |
| TC07000425.hg.1 | 3.01 | PSR07005716.hg.1 | WBSCR17 |
| TC07000425.hg.1 | 2.64 | JUC07002726.hg.1 | WBSCR17 |
| TC07000425.hg.1 | 2.26 | PSR07005714.hg.1 | WBSCR17 |
| TC07000425.hg.1 | -2.06 | JUC07002728.hg.1 | WBSCR17 |
| TC07000425.hg.1 | -2.08 | JUC07002724.hg.1 | WBSCR17 |
| TC07000425.hg.1 | -2.2 | PSR07005711.hg.1 | WBSCR17 |
| TC07000425.hg.1 | -2.35 | PSR07005712.hg.1 | WBSCR17 |
| TC07000425.hg.1 | -2.77 | JUC07002736.hg.1 | WBSCR17 |
| TC07000425.hg.1 | -3 | PSR07005713.hg.1 | WBSCR17 |
| TC03001382.hg.1 | 10.07 | JUC03012047.hg.1 | COL7A1 |
| TC03001382.hg.1 | 10 | JUC03012054.hg.1 | COL7A1 |
| TC03001382.hg.1 | 9.39 | JUC03012000.hg.1 | COL7A1 |
| TC03001382.hg.1 | 7.5 | PSR03024171.hg.1 | COL7A1 |
| TC03001382.hg.1 | 6.18 | PSR03024170.hg.1 | COL7A1 |
| TC03001382.hg.1 | 6.15 | JUC03012063.hg.1 | COL7A1 |
| TC03001382.hg.1 | 5.22 | PSR03024044.hg.1 | COL7A1 |
| TC03001382.hg.1 | 5.13 | PSR03024168.hg.1 | COL7A1 |
| TC03001382.hg.1 | 5.1 | JUC03012030.hg.1 | COL7A1 |
| TC03001382.hg.1 | 5.01 | JUC03012001.hg.1 | COL7A1 |
| TC03001382.hg.1 | 4.56 | PSR03024172.hg.1 | COL7A1 |
| TC03001382.hg.1 | 4.44 | PSR03024158.hg.1 | COL7A1 |
| TC03001382.hg.1 | 4.43 | PSR03024157.hg.1 | COL7A1 |
| TC03001382.hg.1 | 4.31 | PSR03024173.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.91 | JUC03012040.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.65 | PSR03024057.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.61 | PSR03024169.hg.1 | COL7A1 |

| | | | |
|-----------------|--------|------------------|---------|
| TC03001382.hg.1 | 3.46 | PSR03024161.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.19 | PSR03024164.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.16 | JUC03012013.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.06 | PSR03024153.hg.1 | COL7A1 |
| TC03001382.hg.1 | 3.04 | PSR03024166.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.95 | PSR03024122.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.73 | PSR03024162.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.53 | PSR03024165.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.49 | PSR03024043.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.39 | PSR03024150.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.34 | JUC03011993.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.23 | JUC03011980.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.04 | JUC03012037.hg.1 | COL7A1 |
| TC03001382.hg.1 | 2.03 | JUC03011990.hg.1 | COL7A1 |
| TC03001382.hg.1 | -2 | JUC03011971.hg.1 | COL7A1 |
| TC03001382.hg.1 | -2.06 | PSR03024104.hg.1 | COL7A1 |
| TC03001382.hg.1 | -2.07 | PSR03024098.hg.1 | COL7A1 |
| TC03001382.hg.1 | -2.1 | PSR03024092.hg.1 | COL7A1 |
| TC03001382.hg.1 | -2.32 | JUC03011979.hg.1 | COL7A1 |
| TC03001382.hg.1 | -2.59 | PSR03024146.hg.1 | COL7A1 |
| TC17001250.hg.1 | 10 | PSR17016769.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 9.72 | PSR17016802.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 9.59 | PSR17016786.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 8.27 | JUC17009527.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 8.13 | PSR17016794.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 8.12 | PSR17016782.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 8.11 | PSR17016790.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 8.07 | JUC17009523.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 7.69 | PSR17016781.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 7.69 | PSR17016784.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 7.4 | PSR17016789.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 7.26 | JUC17009526.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 6.92 | PSR17016780.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 6.53 | PSR17016795.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 6.33 | PSR17016785.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 6.24 | PSR17016776.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 5.48 | PSR17016800.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 5.02 | JUC17009532.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 4.61 | PSR17016765.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 4.38 | PSR17016771.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 4.35 | JUC17009525.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 4.08 | JUC17009524.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 3.56 | JUC17009522.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 3.08 | JUC17009521.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 2.99 | PSR17016763.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 2.72 | PSR17016787.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 2.7 | PSR17016761.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | 2.53 | PSR17016804.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -2.07 | PSR17016767.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -2.9 | JUC17009533.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -4.09 | PSR17016783.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -4.72 | JUC17009535.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -7.44 | PSR17016774.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -9.14 | JUC17009519.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -19.92 | JUC17009518.hg.1 | ALDH3A1 |
| TC17001250.hg.1 | -23.73 | JUC17009530.hg.1 | ALDH3A1 |
| TC01001704.hg.1 | 9.98 | JUC01014213.hg.1 | NFASC |
| TC01001704.hg.1 | 6.52 | PSR01026480.hg.1 | NFASC |

| | | | |
|-----------------|-------|------------------|-----------|
| TC01001704.hg.1 | 5.61 | JUC01014185.hg.1 | NFASC |
| TC01001704.hg.1 | 5.35 | JUC01014238.hg.1 | NFASC |
| TC01001704.hg.1 | 4.92 | JUC01014186.hg.1 | NFASC |
| TC01001704.hg.1 | 4.8 | JUC01014205.hg.1 | NFASC |
| TC01001704.hg.1 | 4.47 | JUC01014191.hg.1 | NFASC |
| TC01001704.hg.1 | 4.29 | JUC01014222.hg.1 | NFASC |
| TC01001704.hg.1 | 4.14 | JUC01014183.hg.1 | NFASC |
| TC01001704.hg.1 | 4.01 | PSR01026475.hg.1 | NFASC |
| TC01001704.hg.1 | 3.62 | JUC01014240.hg.1 | NFASC |
| TC01001704.hg.1 | 3.61 | JUC01014189.hg.1 | NFASC |
| TC01001704.hg.1 | 3.45 | JUC01014230.hg.1 | NFASC |
| TC01001704.hg.1 | 3.38 | JUC01014193.hg.1 | NFASC |
| TC01001704.hg.1 | 3.35 | PSR01026476.hg.1 | NFASC |
| TC01001704.hg.1 | 3.32 | PSR01026474.hg.1 | NFASC |
| TC01001704.hg.1 | 3.31 | PSR01026499.hg.1 | NFASC |
| TC01001704.hg.1 | 3.16 | PSR01026507.hg.1 | NFASC |
| TC01001704.hg.1 | 3.16 | JUC01014201.hg.1 | NFASC |
| TC01001704.hg.1 | 3.13 | PSR01026532.hg.1 | NFASC |
| TC01001704.hg.1 | 3.06 | PSR01026506.hg.1 | NFASC |
| TC01001704.hg.1 | 3.06 | JUC01014209.hg.1 | NFASC |
| TC01001704.hg.1 | 3.02 | PSR01026547.hg.1 | NFASC |
| TC01001704.hg.1 | 2.98 | JUC01014211.hg.1 | NFASC |
| TC01001704.hg.1 | 2.89 | JUC01014225.hg.1 | NFASC |
| TC01001704.hg.1 | 2.83 | PSR01026497.hg.1 | NFASC |
| TC01001704.hg.1 | 2.7 | PSR01026496.hg.1 | NFASC |
| TC01001704.hg.1 | 2.66 | JUC01014231.hg.1 | NFASC |
| TC01001704.hg.1 | 2.47 | JUC01014218.hg.1 | NFASC |
| TC01001704.hg.1 | 2.38 | JUC01014199.hg.1 | NFASC |
| TC01001704.hg.1 | 2.26 | PSR01026524.hg.1 | NFASC |
| TC01001704.hg.1 | 2.24 | PSR01026515.hg.1 | NFASC |
| TC01001704.hg.1 | 2.13 | JUC01014180.hg.1 | NFASC |
| TC01001704.hg.1 | 2.09 | PSR01026548.hg.1 | NFASC |
| TC01001704.hg.1 | 2 | PSR01026510.hg.1 | NFASC |
| TC01001704.hg.1 | -2.1 | JUC01014219.hg.1 | NFASC |
| TC01001704.hg.1 | -2.34 | JUC01014202.hg.1 | NFASC |
| TC01001704.hg.1 | -2.36 | JUC01014217.hg.1 | NFASC |
| TC01001704.hg.1 | -2.58 | JUC01014241.hg.1 | NFASC |
| TC01001704.hg.1 | -2.77 | PSR01026541.hg.1 | NFASC |
| TC08001552.hg.1 | 9.97 | PSR08020447.hg.1 | TNFRSF11B |
| TC08001552.hg.1 | 9.36 | PSR08020448.hg.1 | TNFRSF11B |
| TC08001552.hg.1 | 7.09 | JUC08010437.hg.1 | TNFRSF11B |
| TC08001552.hg.1 | 5.06 | PSR08020443.hg.1 | TNFRSF11B |
| TC08001552.hg.1 | 2.39 | JUC08010439.hg.1 | TNFRSF11B |
| TC14001466.hg.1 | 9.96 | JUC14008515.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 6.98 | PSR14016504.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 6.67 | JUC14008529.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 6.23 | PSR14016508.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 6.22 | JUC14008517.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 6.11 | JUC14008516.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 5.56 | PSR14016499.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 5.3 | PSR14016525.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 5.28 | JUC14008514.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 5.06 | JUC14008521.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 4.73 | JUC14008525.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 4.62 | JUC14008518.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 4.35 | JUC14008523.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 4.19 | PSR14016526.hg.1 | SERPINA1 |
| TC14001466.hg.1 | 3.49 | JUC14008522.hg.1 | SERPINA1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC14001466.hg.1 | 3.31 | JUC14008519.hg.1 | SERPINA1 |
| TC14001466.hg.1 | -2.27 | JUC14008526.hg.1 | SERPINA1 |
| TC14001466.hg.1 | -2.48 | JUC14008513.hg.1 | SERPINA1 |
| TC17000654.hg.1 | 9.95 | JUC17004532.hg.1 | ITGA3 |
| TC17000654.hg.1 | 7.77 | JUC17004527.hg.1 | ITGA3 |
| TC17000654.hg.1 | 5.09 | PSR17008176.hg.1 | ITGA3 |
| TC17000654.hg.1 | 4.96 | JUC17004502.hg.1 | ITGA3 |
| TC17000654.hg.1 | 4.86 | PSR17008158.hg.1 | ITGA3 |
| TC17000654.hg.1 | 4.77 | PSR17008182.hg.1 | ITGA3 |
| TC17000654.hg.1 | 4.27 | PSR17008169.hg.1 | ITGA3 |
| TC17000654.hg.1 | 4.11 | PSR17008143.hg.1 | ITGA3 |
| TC17000654.hg.1 | 4.03 | PSR17008186.hg.1 | ITGA3 |
| TC17000654.hg.1 | 3.55 | PSR17008153.hg.1 | ITGA3 |
| TC17000654.hg.1 | 3.19 | PSR17008147.hg.1 | ITGA3 |
| TC17000654.hg.1 | 3.06 | PSR17008188.hg.1 | ITGA3 |
| TC17000654.hg.1 | 2.93 | PSR17008178.hg.1 | ITGA3 |
| TC17000654.hg.1 | 2.79 | JUC17004514.hg.1 | ITGA3 |
| TC17000654.hg.1 | 2.74 | JUC17004509.hg.1 | ITGA3 |
| TC17000654.hg.1 | 2.66 | PSR17008179.hg.1 | ITGA3 |
| TC17000654.hg.1 | -2.19 | JUC17004519.hg.1 | ITGA3 |
| TC17000654.hg.1 | -2.45 | JUC17004511.hg.1 | ITGA3 |
| TC17000654.hg.1 | -2.83 | JUC17004517.hg.1 | ITGA3 |
| TC03000791.hg.1 | 9.94 | PSR03014276.hg.1 | ZIC1 |
| TC03000791.hg.1 | 8.51 | JUC03007207.hg.1 | ZIC1 |
| TC03000791.hg.1 | 4.98 | PSR03014275.hg.1 | ZIC1 |
| TC03000791.hg.1 | 2.68 | PSR03014278.hg.1 | ZIC1 |
| TC03000791.hg.1 | 2.24 | JUC03007205.hg.1 | ZIC1 |
| TC14002338.hg.1 | 9.89 | JUC14012318.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 6.26 | JUC14012324.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 3.65 | PSR14010571.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 3.45 | PSR14010574.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 3.34 | JUC14012322.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 3.17 | PSR14010573.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 3.04 | JUC14012321.hg.1 | PPP1R3E |
| TC14002338.hg.1 | 2.31 | PSR14010568.hg.1 | PPP1R3E |
| TC03001255.hg.1 | 9.87 | JUC03010703.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 4.64 | JUC03010715.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 3.49 | PSR03021509.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 3.16 | PSR03021530.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 3.16 | PSR03021534.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 3.14 | PSR03021502.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 3.11 | JUC03010709.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 3.1 | PSR03021523.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 2.61 | JUC03010717.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 2.58 | PSR03021522.hg.1 | SLC4A7 |
| TC03001255.hg.1 | 2.53 | PSR03021518.hg.1 | SLC4A7 |
| TC03001255.hg.1 | -2.21 | PSR03021496.hg.1 | SLC4A7 |
| TC03001255.hg.1 | -2.29 | JUC03010705.hg.1 | SLC4A7 |
| TC03001255.hg.1 | -2.31 | JUC03010692.hg.1 | SLC4A7 |
| TC03001255.hg.1 | -3.06 | JUC03010694.hg.1 | SLC4A7 |
| TC07001327.hg.1 | 9.81 | JUC07010013.hg.1 | COA1 |
| TC07001327.hg.1 | 5.17 | PSR07020475.hg.1 | COA1 |
| TC07001327.hg.1 | 4.66 | JUC07010025.hg.1 | COA1 |
| TC07001327.hg.1 | 2.94 | JUC07010015.hg.1 | COA1 |
| TC07001327.hg.1 | -2.62 | PSR07020459.hg.1 | COA1 |
| TC02000281.hg.1 | 9.8 | PSR02004258.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | 6.5 | PSR02004249.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | 4.35 | PSR02004254.hg.1 | EPAS1, LOC |

| | | | |
|-----------------|-------|------------------|------------|
| TC02000281.hg.1 | 4.03 | JUC02002226.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | 3.05 | PSR02004248.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | 2.86 | PSR02004274.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -2.29 | JUC02002237.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -2.39 | JUC02002239.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -2.62 | PSR02004276.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -3.02 | JUC02002222.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -3.08 | PSR02004264.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -3.78 | JUC02002238.hg.1 | EPAS1, LOC |
| TC02000281.hg.1 | -5.14 | JUC02002231.hg.1 | EPAS1, LOC |
| TC12000099.hg.1 | 9.75 | PSR12001255.hg.1 | ENO2 |
| TC12000099.hg.1 | 7.68 | PSR12001256.hg.1 | ENO2 |
| TC12000099.hg.1 | 7.45 | PSR12001267.hg.1 | ENO2 |
| TC12000099.hg.1 | 5.68 | PSR12001272.hg.1 | ENO2 |
| TC12000099.hg.1 | 5.36 | PSR12001259.hg.1 | ENO2 |
| TC12000099.hg.1 | 4.29 | JUC12000653.hg.1 | ENO2 |
| TC12000099.hg.1 | 4.27 | JUC12000645.hg.1 | ENO2 |
| TC12000099.hg.1 | 3.68 | JUC12000648.hg.1 | ENO2 |
| TC12000099.hg.1 | 3.5 | JUC12000646.hg.1 | ENO2 |
| TC12000099.hg.1 | 3.44 | PSR12001265.hg.1 | ENO2 |
| TC12000099.hg.1 | 2.83 | JUC12000655.hg.1 | ENO2 |
| TC12000099.hg.1 | 2.82 | PSR12001260.hg.1 | ENO2 |
| TC12000099.hg.1 | 2.62 | JUC12000656.hg.1 | ENO2 |
| TC12000099.hg.1 | 2.59 | JUC12000647.hg.1 | ENO2 |
| TC12000099.hg.1 | 2.05 | PSR12001268.hg.1 | ENO2 |
| TC10002927.hg.1 | 9.69 | JUC10017022.hg.1 | LDB3 |
| TC10002927.hg.1 | 3.11 | JUC10017010.hg.1 | LDB3 |
| TC10002927.hg.1 | 2.53 | JUC10017009.hg.1 | LDB3 |
| TC10002927.hg.1 | 2.04 | PSR10006610.hg.1 | LDB3 |
| TC10002927.hg.1 | -2.02 | PSR10006634.hg.1 | LDB3 |
| TC01001313.hg.1 | 9.59 | JUC01010885.hg.1 | LMNA |
| TC01001313.hg.1 | 3.63 | JUC01010877.hg.1 | LMNA |
| TC01001313.hg.1 | 3.63 | JUC01010886.hg.1 | LMNA |
| TC01001313.hg.1 | 2.1 | PSR01020426.hg.1 | LMNA |
| TC01001313.hg.1 | 2.03 | JUC01010896.hg.1 | LMNA |
| TC01001313.hg.1 | -2.83 | PSR01020388.hg.1 | LMNA |
| TC06000532.hg.1 | 9.58 | JUC06002389.hg.1 | CDKN1A |
| TC06000532.hg.1 | 2.21 | PSR06005802.hg.1 | CDKN1A |
| TC05001389.hg.1 | 9.55 | JUC05009966.hg.1 | PDE4D |
| TC05001389.hg.1 | 9.07 | PSR05019394.hg.1 | PDE4D |
| TC05001389.hg.1 | 3.61 | PSR05019387.hg.1 | PDE4D |
| TC05001389.hg.1 | 3.43 | PSR05019385.hg.1 | PDE4D |
| TC05001389.hg.1 | 3.11 | PSR05019388.hg.1 | PDE4D |
| TC05001389.hg.1 | 3 | PSR05019386.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.47 | PSR05019374.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.45 | JUC05010011.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.37 | PSR05019382.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.36 | PSR05019373.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.31 | PSR05019368.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.23 | JUC05010000.hg.1 | PDE4D |
| TC05001389.hg.1 | 2.12 | PSR05019367.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.02 | PSR05019362.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.07 | PSR05019355.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.07 | PSR05019410.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.08 | PSR05019401.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.15 | PSR05019421.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.21 | JUC05009969.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.33 | PSR05019429.hg.1 | PDE4D |

| | | | |
|-----------------|--------|------------------|---------|
| TC05001389.hg.1 | -2.38 | PSR05019414.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.52 | JUC05009962.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.62 | PSR05019404.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.66 | PSR05019425.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.7 | PSR05019363.hg.1 | PDE4D |
| TC05001389.hg.1 | -2.74 | PSR05019417.hg.1 | PDE4D |
| TC05001389.hg.1 | -3.02 | JUC05009956.hg.1 | PDE4D |
| TC05001389.hg.1 | -3.72 | JUC05009982.hg.1 | PDE4D |
| TC05001389.hg.1 | -4.23 | PSR05019413.hg.1 | PDE4D |
| TC05001389.hg.1 | -4.27 | JUC05010007.hg.1 | PDE4D |
| TC05001389.hg.1 | -4.6 | JUC05009996.hg.1 | PDE4D |
| TC05001389.hg.1 | -4.75 | PSR05019407.hg.1 | PDE4D |
| TC05001389.hg.1 | -4.95 | PSR05019411.hg.1 | PDE4D |
| TC05001389.hg.1 | -5.79 | PSR05019418.hg.1 | PDE4D |
| TC05001389.hg.1 | -6.28 | JUC05010005.hg.1 | PDE4D |
| TC05001389.hg.1 | -6.97 | PSR05019409.hg.1 | PDE4D |
| TC17001040.hg.1 | 9.55 | JUC17007991.hg.1 | INCA1 |
| TC17001040.hg.1 | -2.03 | PSR17014000.hg.1 | INCA1 |
| TC05000401.hg.1 | 9.49 | JUC05003141.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 7.11 | JUC05003146.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 7.01 | JUC05003120.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 5.21 | JUC05003118.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 4.26 | JUC05003143.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 3.99 | PSR05005724.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 3.9 | PSR05005739.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 2.97 | JUC05003145.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 2.77 | JUC05003131.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 2.68 | PSR05005740.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 2.46 | JUC05003135.hg.1 | RASGRF2 |
| TC05000401.hg.1 | 2.12 | PSR05005736.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2 | PSR05005728.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.1 | PSR05005731.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.37 | PSR05005733.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.38 | JUC05003136.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.52 | JUC05003139.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.55 | PSR05005729.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.61 | PSR05005752.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.66 | PSR05005743.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.81 | PSR05005748.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.86 | JUC05003138.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.96 | PSR05005749.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -2.99 | PSR05005745.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -3 | PSR05005747.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -4.36 | JUC05003124.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -5.05 | PSR05005751.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -5.32 | PSR05005721.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -6 | PSR05005753.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -6.21 | PSR05005742.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -6.71 | JUC05003128.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -6.81 | JUC05003123.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -9.23 | JUC05003144.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -9.93 | JUC05003129.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -11.08 | PSR05005725.hg.1 | RASGRF2 |
| TC05000401.hg.1 | -12.99 | JUC05003116.hg.1 | RASGRF2 |
| TC01003638.hg.1 | 9.47 | PSR01055959.hg.1 | PTGS2 |
| TC01003638.hg.1 | 7.14 | JUC01029200.hg.1 | PTGS2 |
| TC01003638.hg.1 | 5.79 | PSR01055969.hg.1 | PTGS2 |
| TC01003638.hg.1 | 5.48 | JUC01029201.hg.1 | PTGS2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC01003638.hg.1 | 4.96 | PSR01055954.hg.1 | PTGS2 |
| TC01003638.hg.1 | 3.14 | PSR01055964.hg.1 | PTGS2 |
| TC01003638.hg.1 | 2.87 | JUC01029207.hg.1 | PTGS2 |
| TC01001954.hg.1 | 9.37 | PSR01030172.hg.1 | LGALS8 |
| TC01001954.hg.1 | 3.24 | JUC01016317.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.92 | JUC01016322.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.82 | PSR01030169.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.82 | JUC01016309.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.35 | PSR01030163.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.23 | JUC01016319.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.06 | JUC01016325.hg.1 | LGALS8 |
| TC01001954.hg.1 | 2.06 | JUC01016326.hg.1 | LGALS8 |
| TC01001954.hg.1 | -3.1 | PSR01030181.hg.1 | LGALS8 |
| TC02002624.hg.1 | 9.37 | JUC02021911.hg.1 | STAT1 |
| TC02002624.hg.1 | 4.41 | JUC02021918.hg.1 | STAT1 |
| TC02002624.hg.1 | 3.7 | JUC02021937.hg.1 | STAT1 |
| TC02002624.hg.1 | 2.69 | PSR02042058.hg.1 | STAT1 |
| TC02002624.hg.1 | 2.6 | PSR02042023.hg.1 | STAT1 |
| TC02002624.hg.1 | 2.41 | PSR02042052.hg.1 | STAT1 |
| TC02002624.hg.1 | 2.36 | PSR02042006.hg.1 | STAT1 |
| TC02002624.hg.1 | -2.16 | PSR02042033.hg.1 | STAT1 |
| TC02002624.hg.1 | -4.74 | JUC02021932.hg.1 | STAT1 |
| TC06001717.hg.1 | 9.28 | JUC06009702.hg.1 | TREM1 |
| TC06001717.hg.1 | 7.03 | PSR06020463.hg.1 | TREM1 |
| TC06001717.hg.1 | 5.24 | PSR06020461.hg.1 | TREM1 |
| TC06001717.hg.1 | 4.44 | PSR06020460.hg.1 | TREM1 |
| TC06001717.hg.1 | 3.88 | PSR06020466.hg.1 | TREM1 |
| TC15000800.hg.1 | 9.26 | JUC15003821.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 4.01 | JUC15003803.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 3.58 | JUC15003812.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 3.44 | JUC15003816.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 3.22 | JUC15003794.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.75 | JUC15003813.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.66 | PSR15007321.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.65 | JUC15003804.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.64 | PSR15007320.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.42 | PSR15007322.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.32 | PSR15007302.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | 2.31 | JUC15003805.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.25 | JUC15003811.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.32 | JUC15003795.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.45 | PSR15007315.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.58 | JUC15003817.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.74 | JUC15003820.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.77 | PSR15007316.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.78 | JUC15003808.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.88 | PSR15007299.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.91 | PSR15007324.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -2.98 | PSR15007314.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -3.11 | JUC15003810.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -3.43 | PSR15007298.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -3.88 | JUC15003807.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -4.22 | PSR15007331.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -4.93 | JUC15003823.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -6.39 | PSR15007327.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -6.87 | PSR15007330.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -8.65 | JUC15003799.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -9.37 | PSR15007328.hg.1 | ADAMTSL3 |

| | | | |
|-----------------|--------|------------------|-----------|
| TC15000800.hg.1 | -10.99 | PSR15007332.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -19.84 | PSR15007306.hg.1 | ADAMTSL3 |
| TC15000800.hg.1 | -23.54 | JUC15003822.hg.1 | ADAMTSL3 |
| TC21000559.hg.1 | 9.26 | PSR21006827.hg.1 | S100B |
| TC21000559.hg.1 | 8 | PSR21006829.hg.1 | S100B |
| TC21000559.hg.1 | 7.11 | PSR21006830.hg.1 | S100B |
| TC21000559.hg.1 | 6.38 | PSR21006828.hg.1 | S100B |
| TC21000559.hg.1 | 6.15 | PSR21006822.hg.1 | S100B |
| TC21000559.hg.1 | 5.74 | PSR21006825.hg.1 | S100B |
| TC21000559.hg.1 | 4.22 | JUC21003510.hg.1 | S100B |
| TC03000944.hg.1 | 9.2 | JUC03008302.hg.1 | LINC00578 |
| TC03000944.hg.1 | -2.02 | PSR03016306.hg.1 | LINC00578 |
| TC03000944.hg.1 | -5.38 | PSR03016301.hg.1 | LINC00578 |
| TC21000420.hg.1 | 9.2 | PSR21004944.hg.1 | RCAN1 |
| TC21000420.hg.1 | 8.72 | PSR21004941.hg.1 | RCAN1 |
| TC21000420.hg.1 | 8.35 | JUC21002514.hg.1 | RCAN1 |
| TC21000420.hg.1 | 8.1 | JUC21002516.hg.1 | RCAN1 |
| TC21000420.hg.1 | 8.07 | PSR21004939.hg.1 | RCAN1 |
| TC21000420.hg.1 | 6.5 | PSR21004942.hg.1 | RCAN1 |
| TC21000420.hg.1 | 5.86 | PSR21004940.hg.1 | RCAN1 |
| TC21000420.hg.1 | 5.36 | PSR21004921.hg.1 | RCAN1 |
| TC21000420.hg.1 | 4.63 | PSR21004938.hg.1 | RCAN1 |
| TC21000420.hg.1 | 3.48 | PSR21004927.hg.1 | RCAN1 |
| TC21000420.hg.1 | 3.24 | JUC21002525.hg.1 | RCAN1 |
| TC21000420.hg.1 | 2.59 | PSR21004936.hg.1 | RCAN1 |
| TC21000420.hg.1 | 2.45 | JUC21002522.hg.1 | RCAN1 |
| TC07000328.hg.1 | 9.17 | JUC07002401.hg.1 | EGFR |
| TC07000328.hg.1 | 4.01 | JUC07002372.hg.1 | EGFR |
| TC07000328.hg.1 | 2.58 | PSR07004855.hg.1 | EGFR |
| TC07000328.hg.1 | 2.58 | PSR07004858.hg.1 | EGFR |
| TC07000328.hg.1 | 2.41 | PSR07004880.hg.1 | EGFR |
| TC07000328.hg.1 | 2.29 | PSR07004851.hg.1 | EGFR |
| TC07000328.hg.1 | 2.17 | JUC07002375.hg.1 | EGFR |
| TC07000328.hg.1 | 2 | PSR07004874.hg.1 | EGFR |
| TC09001070.hg.1 | 9.09 | JUC09007729.hg.1 | RNF38 |
| TC09001070.hg.1 | 7.83 | JUC09007723.hg.1 | RNF38 |
| TC09001070.hg.1 | 4.02 | PSR09014342.hg.1 | RNF38 |
| TC10000773.hg.1 | 9.08 | JUC10005116.hg.1 | PDCD11 |
| TC10000773.hg.1 | 2.6 | JUC10005118.hg.1 | PDCD11 |
| TC10000773.hg.1 | 2.22 | PSR10009205.hg.1 | PDCD11 |
| TC10000773.hg.1 | 2.1 | JUC10005138.hg.1 | PDCD11 |
| TC10000773.hg.1 | 2.01 | JUC10005125.hg.1 | PDCD11 |
| TC10000773.hg.1 | -2.05 | JUC10005144.hg.1 | PDCD11 |
| TC10000773.hg.1 | -2.21 | PSR10009224.hg.1 | PDCD11 |
| TC17001240.hg.1 | 9.08 | JUC17009475.hg.1 | B9D1 |
| TC17001240.hg.1 | 4.88 | JUC17009459.hg.1 | B9D1 |
| TC17001240.hg.1 | 3.91 | JUC17009463.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.61 | PSR17016660.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.45 | PSR17016683.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.39 | PSR17016691.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.33 | PSR17016689.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.32 | PSR17016687.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.29 | PSR17016662.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.21 | PSR17016686.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.18 | PSR17016664.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.12 | JUC17009467.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.11 | PSR17016667.hg.1 | B9D1 |
| TC17001240.hg.1 | 2.06 | PSR17016669.hg.1 | B9D1 |

| | | | |
|------------------|--------|-------------------|---------|
| TC17001240.hg.1 | -2.18 | JUC17009469.hg.1 | B9D1 |
| TC17001240.hg.1 | -2.21 | JUC17009472.hg.1 | B9D1 |
| TC19001210.hg.1 | 9.04 | JUC19009834.hg.1 | PRDX2 |
| TC19001210.hg.1 | 2.65 | PSR19017006.hg.1 | PRDX2 |
| TC19001210.hg.1 | 2.57 | PSR19017002.hg.1 | PRDX2 |
| TC19001210.hg.1 | 2.16 | PSR19017009.hg.1 | PRDX2 |
| TC02002174.hg.1 | 8.99 | JUC02018260.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | 7.47 | JUC02018263.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | 6.76 | JUC02018267.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | 4.3 | PSR02035394.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | 3.36 | PSR02035392.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | 2.46 | PSR02035393.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -2.92 | PSR02035396.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -4.01 | JUC02018266.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -4.42 | PSR02035395.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -7.09 | PSR02035388.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -9.02 | JUC02018264.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -10.79 | JUC02018268.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -11.48 | PSR02035397.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -12.91 | PSR02035399.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -14.75 | PSR02035398.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -17.04 | PSR02035402.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -17.45 | PSR02035390.hg.1 | ST6GAL2 |
| TC02002174.hg.1 | -20.33 | PSR02035400.hg.1 | ST6GAL2 |
| TC6_ssto_hap7000 | 8.97 | JUC6_ssto_hap7001 | HLA-B |
| TC6_ssto_hap7000 | 3.89 | JUC6_ssto_hap7001 | HLA-B |
| TC6_ssto_hap7000 | 3.58 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 3 | JUC6_ssto_hap7001 | HLA-B |
| TC6_ssto_hap7000 | 2.92 | JUC6_ssto_hap7001 | HLA-B |
| TC6_ssto_hap7000 | 2.91 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.68 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.56 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.5 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.34 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.34 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.31 | PSR6_ssto_hap7002 | HLA-B |
| TC6_ssto_hap7000 | 2.01 | PSR6_ssto_hap7002 | HLA-B |
| TC03000495.hg.1 | 8.84 | JUC03004682.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 4.52 | PSR03009403.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 4.42 | PSR03009401.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.95 | PSR03009402.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.34 | PSR03009345.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.33 | JUC03004664.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.16 | PSR03009358.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.15 | PSR03009339.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.11 | PSR03009344.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 3.05 | PSR03009363.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.99 | PSR03009354.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.96 | PSR03009346.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.9 | PSR03009392.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.76 | PSR03009380.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.69 | PSR03009334.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.67 | PSR03009398.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.55 | PSR03009371.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.54 | PSR03009367.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.53 | PSR03009337.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.37 | JUC03004681.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.35 | PSR03009396.hg.1 | ST3GAL6 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC03000495.hg.1 | 2.3 | PSR03009378.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.28 | JUC03004691.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.25 | JUC03004678.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.22 | PSR03009400.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.2 | PSR03009347.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.1 | JUC03004663.hg.1 | ST3GAL6 |
| TC03000495.hg.1 | 2.03 | JUC03004694.hg.1 | ST3GAL6 |
| TC03000561.hg.1 | 8.78 | JUC03005064.hg.1 | PVRL3 |
| TC03000561.hg.1 | 3.06 | JUC03005062.hg.1 | PVRL3 |
| TC03000561.hg.1 | 2.49 | PSR03010133.hg.1 | PVRL3 |
| TC03000561.hg.1 | 2.44 | PSR03010138.hg.1 | PVRL3 |
| TC03000561.hg.1 | 2.31 | PSR03010140.hg.1 | PVRL3 |
| TC03000561.hg.1 | 2.19 | PSR03010135.hg.1 | PVRL3 |
| TC03000561.hg.1 | 2.16 | PSR03010144.hg.1 | PVRL3 |
| TC15000368.hg.1 | 8.78 | JUC15001592.hg.1 | SEMA6D |
| TC15000368.hg.1 | 5.72 | PSR15003354.hg.1 | SEMA6D |
| TC15000368.hg.1 | 4.13 | PSR15003350.hg.1 | SEMA6D |
| TC15000368.hg.1 | 4.04 | PSR15003353.hg.1 | SEMA6D |
| TC15000368.hg.1 | 3.49 | PSR15003349.hg.1 | SEMA6D |
| TC15000368.hg.1 | 3.28 | PSR15003356.hg.1 | SEMA6D |
| TC15000368.hg.1 | 3.1 | PSR15003378.hg.1 | SEMA6D |
| TC15000368.hg.1 | 3 | PSR15003362.hg.1 | SEMA6D |
| TC15000368.hg.1 | 2.92 | PSR15003360.hg.1 | SEMA6D |
| TC15000368.hg.1 | 2.78 | PSR15003381.hg.1 | SEMA6D |
| TC15000368.hg.1 | 2.59 | PSR15003357.hg.1 | SEMA6D |
| TC15000368.hg.1 | 2.58 | JUC15001609.hg.1 | SEMA6D |
| TC15000368.hg.1 | 2.57 | PSR15003364.hg.1 | SEMA6D |
| TC15000368.hg.1 | -2.01 | PSR15003371.hg.1 | SEMA6D |
| TC15000368.hg.1 | -2.03 | PSR15003377.hg.1 | SEMA6D |
| TC15000368.hg.1 | -2.68 | JUC15001590.hg.1 | SEMA6D |
| TC04000706.hg.1 | 8.72 | JUC04005392.hg.1 | HHIP |
| TC04000706.hg.1 | 5.52 | PSR04010020.hg.1 | HHIP |
| TC04000706.hg.1 | 5.32 | PSR04010021.hg.1 | HHIP |
| TC04000706.hg.1 | 5.19 | PSR04010034.hg.1 | HHIP |
| TC04000706.hg.1 | 5.04 | PSR04010037.hg.1 | HHIP |
| TC04000706.hg.1 | 4.81 | PSR04010019.hg.1 | HHIP |
| TC04000706.hg.1 | 4.81 | PSR04010022.hg.1 | HHIP |
| TC04000706.hg.1 | 4.47 | PSR04010045.hg.1 | HHIP |
| TC04000706.hg.1 | 4.34 | PSR04010032.hg.1 | HHIP |
| TC04000706.hg.1 | 4.04 | JUC04005393.hg.1 | HHIP |
| TC04000706.hg.1 | 4.02 | PSR04010040.hg.1 | HHIP |
| TC04000706.hg.1 | 3.94 | PSR04010043.hg.1 | HHIP |
| TC04000706.hg.1 | 3.81 | PSR04010052.hg.1 | HHIP |
| TC04000706.hg.1 | 3.49 | JUC04005372.hg.1 | HHIP |
| TC04000706.hg.1 | 3.3 | PSR04010033.hg.1 | HHIP |
| TC04000706.hg.1 | 3.27 | PSR04010044.hg.1 | HHIP |
| TC04000706.hg.1 | 3.18 | PSR04010051.hg.1 | HHIP |
| TC04000706.hg.1 | 3.13 | PSR04010049.hg.1 | HHIP |
| TC04000706.hg.1 | 2.97 | JUC04005383.hg.1 | HHIP |
| TC04000706.hg.1 | 2.88 | JUC04005384.hg.1 | HHIP |
| TC04000706.hg.1 | 2.52 | PSR04010029.hg.1 | HHIP |
| TC04000706.hg.1 | 2.36 | JUC04005375.hg.1 | HHIP |
| TC04000706.hg.1 | 2.04 | PSR04010048.hg.1 | HHIP |
| TC10002938.hg.1 | 8.7 | PSR10006674.hg.1 | C10orf116 |
| TC10002938.hg.1 | 5.49 | PSR10006676.hg.1 | C10orf116 |
| TC10002938.hg.1 | 4.76 | JUC10017204.hg.1 | C10orf116 |
| TC10002938.hg.1 | 4.16 | PSR10006680.hg.1 | C10orf116 |
| TC10002938.hg.1 | 3.37 | PSR10006683.hg.1 | C10orf116 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC10002938.hg.1 | -2.4 | PSR10006679.hg.1 | C10orf116 |
| TC11002427.hg.1 | 8.7 | JUC11015481.hg.1 | CDON |
| TC11002427.hg.1 | 8.29 | JUC11015494.hg.1 | CDON |
| TC11002427.hg.1 | 7.59 | PSR11029100.hg.1 | CDON |
| TC11002427.hg.1 | 7.21 | PSR11029091.hg.1 | CDON |
| TC11002427.hg.1 | 7.15 | PSR11029101.hg.1 | CDON |
| TC11002427.hg.1 | 6.43 | PSR11029087.hg.1 | CDON |
| TC11002427.hg.1 | 6.33 | JUC11015495.hg.1 | CDON |
| TC11002427.hg.1 | 6.08 | PSR11029095.hg.1 | CDON |
| TC11002427.hg.1 | 5.24 | PSR11029086.hg.1 | CDON |
| TC11002427.hg.1 | 5.11 | JUC11015488.hg.1 | CDON |
| TC11002427.hg.1 | 3.78 | JUC11015489.hg.1 | CDON |
| TC11002427.hg.1 | 2.92 | PSR11029099.hg.1 | CDON |
| TC11002427.hg.1 | 2.41 | JUC11015491.hg.1 | CDON |
| TC11002427.hg.1 | 2.26 | JUC11015480.hg.1 | CDON |
| TC11002427.hg.1 | 2.1 | JUC11015477.hg.1 | CDON |
| TC11002427.hg.1 | -2.1 | PSR11029073.hg.1 | CDON |
| TC11002427.hg.1 | -2.14 | JUC11015482.hg.1 | CDON |
| TC11002427.hg.1 | -2.69 | JUC11015493.hg.1 | CDON |
| TC11002427.hg.1 | -6.42 | JUC11015499.hg.1 | CDON |
| TC10001676.hg.1 | 8.69 | JUC10012801.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 6.19 | JUC10012833.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 5.13 | JUC10012831.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 3.75 | PSR10022098.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 3.64 | PSR10022061.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 3.55 | PSR10022092.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 3.55 | JUC10012822.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 3.41 | JUC10012802.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.98 | PSR10022063.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.95 | JUC10012804.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.93 | JUC10012798.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.91 | JUC10012830.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.88 | PSR10022094.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.85 | PSR10022075.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.85 | JUC10012824.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.83 | JUC10012826.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.82 | JUC10012796.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.78 | PSR10022095.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.73 | PSR10022096.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.64 | PSR10022091.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.56 | PSR10022077.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.52 | PSR10022062.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.42 | PSR10022101.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.41 | PSR10022039.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.4 | PSR10022081.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.34 | PSR10022100.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.27 | PSR10022088.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.21 | JUC10012803.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.21 | JUC10012815.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.05 | PSR10022069.hg.1 | ABLIM1 |
| TC10001676.hg.1 | 2.02 | PSR10022046.hg.1 | ABLIM1 |
| TC10001676.hg.1 | -2.7 | PSR10022060.hg.1 | ABLIM1 |
| TC10001676.hg.1 | -3.43 | JUC10012837.hg.1 | ABLIM1 |
| TC06001046.hg.1 | 8.67 | PSR06012235.hg.1 | GPR126 |
| TC06001046.hg.1 | 7.4 | PSR06012251.hg.1 | GPR126 |
| TC06001046.hg.1 | 6.54 | JUC06006011.hg.1 | GPR126 |
| TC06001046.hg.1 | 6.38 | PSR06012240.hg.1 | GPR126 |
| TC06001046.hg.1 | 6.13 | JUC06005992.hg.1 | GPR126 |

| | | | |
|-----------------|-------|------------------|--------|
| TC06001046.hg.1 | 5.83 | PSR06012237.hg.1 | GPR126 |
| TC06001046.hg.1 | 5.82 | PSR06012275.hg.1 | GPR126 |
| TC06001046.hg.1 | 5.6 | PSR06012258.hg.1 | GPR126 |
| TC06001046.hg.1 | 5.49 | PSR06012271.hg.1 | GPR126 |
| TC06001046.hg.1 | 5.44 | PSR06012249.hg.1 | GPR126 |
| TC06001046.hg.1 | 5.43 | JUC06005988.hg.1 | GPR126 |
| TC06001046.hg.1 | 5.29 | JUC06005999.hg.1 | GPR126 |
| TC06001046.hg.1 | 4.45 | JUC06006005.hg.1 | GPR126 |
| TC06001046.hg.1 | 3.99 | PSR06012267.hg.1 | GPR126 |
| TC06001046.hg.1 | 2.69 | JUC06005993.hg.1 | GPR126 |
| TC06001046.hg.1 | 2.18 | JUC06006003.hg.1 | GPR126 |
| TC06001046.hg.1 | 2.07 | PSR06012265.hg.1 | GPR126 |
| TC06001046.hg.1 | 2.03 | JUC06006010.hg.1 | GPR126 |
| TC06001046.hg.1 | -2.45 | JUC06006013.hg.1 | GPR126 |
| TC06001046.hg.1 | -2.66 | JUC06006000.hg.1 | GPR126 |
| TC06001046.hg.1 | -3.33 | JUC06005995.hg.1 | GPR126 |
| TC07003293.hg.1 | 8.66 | JUC07020378.hg.1 | HILPDA |
| TC07003293.hg.1 | 7.23 | JUC07020373.hg.1 | HILPDA |
| TC07003293.hg.1 | 4.41 | PSR07012185.hg.1 | HILPDA |
| TC07003293.hg.1 | 3.36 | PSR07012201.hg.1 | HILPDA |
| TC07003293.hg.1 | 3.12 | JUC07020374.hg.1 | HILPDA |
| TC07003293.hg.1 | 2.39 | JUC07020376.hg.1 | HILPDA |
| TC07003293.hg.1 | -2.7 | PSR07012203.hg.1 | HILPDA |
| TC07003293.hg.1 | -3.21 | PSR07012198.hg.1 | HILPDA |
| TC02002002.hg.1 | 8.65 | PSR02032182.hg.1 | LOXL3 |
| TC02002002.hg.1 | 8.1 | JUC02016631.hg.1 | LOXL3 |
| TC02002002.hg.1 | 7.79 | JUC02016626.hg.1 | LOXL3 |
| TC02002002.hg.1 | 4.58 | PSR02032162.hg.1 | LOXL3 |
| TC02002002.hg.1 | 4.16 | PSR02032187.hg.1 | LOXL3 |
| TC02002002.hg.1 | 4.16 | JUC02016623.hg.1 | LOXL3 |
| TC02002002.hg.1 | 3.78 | PSR02032178.hg.1 | LOXL3 |
| TC02002002.hg.1 | 3.55 | PSR02032190.hg.1 | LOXL3 |
| TC02002002.hg.1 | 3.09 | PSR02032158.hg.1 | LOXL3 |
| TC02002002.hg.1 | 3.04 | JUC02016628.hg.1 | LOXL3 |
| TC02002002.hg.1 | 2.67 | PSR02032159.hg.1 | LOXL3 |
| TC02002002.hg.1 | 2.59 | JUC02016636.hg.1 | LOXL3 |
| TC02002002.hg.1 | 2.53 | PSR02032160.hg.1 | LOXL3 |
| TC02002002.hg.1 | 2.11 | JUC02016622.hg.1 | LOXL3 |
| TC05001851.hg.1 | 8.6 | PSR05025367.hg.1 | NRG2 |
| TC05001851.hg.1 | 3 | JUC05012988.hg.1 | NRG2 |
| TC05001851.hg.1 | 2.92 | JUC05012983.hg.1 | NRG2 |
| TC05001851.hg.1 | 2.6 | JUC05013004.hg.1 | NRG2 |
| TC05001851.hg.1 | -3.28 | JUC05012989.hg.1 | NRG2 |
| TC10002925.hg.1 | 8.6 | PSR10000348.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 8.43 | PSR10000356.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 7.48 | PSR10000354.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 7.39 | PSR10000353.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 6.71 | PSR10000351.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 6.53 | PSR10000352.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 6.23 | JUC10016973.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 6.11 | PSR10000349.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 4.89 | PSR10000370.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 4.53 | PSR10000364.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 3.83 | JUC10016983.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 2.58 | PSR10000357.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 2.4 | JUC10016972.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 2.34 | JUC10016977.hg.1 | AKR1C3 |
| TC10002925.hg.1 | 2.29 | JUC10016981.hg.1 | AKR1C3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10002925.hg.1 | -2.21 | JUC10016984.hg.1 | AKR1C3 |
| TC10002925.hg.1 | -2.21 | JUC10016985.hg.1 | AKR1C3 |
| TC10002925.hg.1 | -2.23 | PSR10000369.hg.1 | AKR1C3 |
| TC01001106.hg.1 | 8.58 | JUC01008923.hg.1 | LOC1005060 |
| TC01001106.hg.1 | 2.59 | JUC01008898.hg.1 | LOC1005060 |
| TC01001106.hg.1 | 2.21 | PSR01017522.hg.1 | LOC1005060 |
| TC01001106.hg.1 | 2.14 | JUC01008910.hg.1 | LOC1005060 |
| TC01001106.hg.1 | -2.18 | JUC01008901.hg.1 | LOC1005060 |
| TC01001106.hg.1 | -2.5 | JUC01008914.hg.1 | LOC1005060 |
| TC02001557.hg.1 | 8.48 | PSR02025178.hg.1 | ITGB1BP1 |
| TC02001557.hg.1 | 6.51 | PSR02025177.hg.1 | ITGB1BP1 |
| TC02001557.hg.1 | 3.03 | JUC02013066.hg.1 | ITGB1BP1 |
| TC02001557.hg.1 | 2.09 | JUC02013053.hg.1 | ITGB1BP1 |
| TC07001276.hg.1 | 8.48 | JUC07009693.hg.1 | TBX20 |
| TC07001276.hg.1 | 2.06 | PSR07019866.hg.1 | TBX20 |
| TC07001276.hg.1 | -2.32 | PSR07019862.hg.1 | TBX20 |
| TC07001276.hg.1 | -2.7 | PSR07019861.hg.1 | TBX20 |
| TC07001276.hg.1 | -4.19 | JUC07009695.hg.1 | TBX20 |
| TC07001276.hg.1 | -4.59 | JUC07009696.hg.1 | TBX20 |
| TC13000561.hg.1 | 8.45 | PSR13006310.hg.1 | MAB21L1, MI |
| TC13000561.hg.1 | 5.83 | PSR13006309.hg.1 | MAB21L1, MI |
| TC13000561.hg.1 | 3.98 | JUC13003711.hg.1 | MAB21L1, MI |
| TC13000561.hg.1 | 3.49 | PSR13006303.hg.1 | MAB21L1, MI |
| TC6_mann_hap400 | 8.45 | JUC6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 4.95 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 3.66 | JUC6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 3.37 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.82 | JUC6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.75 | JUC6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.74 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.53 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.52 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.42 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.35 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.21 | PSR6_mann_hap400 | HLA-B |
| TC6_mann_hap400 | 2.21 | PSR6_mann_hap400 | HLA-B |
| TC6_cox_hap2000 | 8.44 | JUC6_cox_hap2001 | HLA-B |
| TC6_cox_hap2000 | 5.57 | PSR6_cox_hap2002 | HLA-B |
| TC6_cox_hap2000 | 3.66 | JUC6_cox_hap2001 | HLA-B |
| TC6_cox_hap2000 | 3.18 | PSR6_cox_hap2002 | HLA-B |
| TC6_cox_hap2000 | 2.75 | JUC6_cox_hap2001 | HLA-B |
| TC6_cox_hap2000 | 2.3 | PSR6_cox_hap2002 | HLA-B |
| TC6_cox_hap2000 | 2.07 | PSR6_cox_hap2002 | HLA-B |
| TC6_cox_hap2000 | 2 | PSR6_cox_hap2002 | HLA-B |
| TC07001163.hg.1 | 8.41 | JUC07008885.hg.1 | AGR2 |
| TC07001163.hg.1 | 3.46 | PSR07018203.hg.1 | AGR2 |
| TC07001163.hg.1 | 2.36 | PSR07018194.hg.1 | AGR2 |
| TC07001163.hg.1 | 2.23 | PSR07018198.hg.1 | AGR2 |
| TC07001163.hg.1 | 2.22 | PSR07018196.hg.1 | AGR2 |
| TC07001163.hg.1 | 2.21 | PSR07018189.hg.1 | AGR2 |
| TC07001163.hg.1 | 2.03 | PSR07018213.hg.1 | AGR2 |
| TC10001216.hg.1 | 8.41 | JUC10008791.hg.1 | C10orf10 |
| TC10001216.hg.1 | 4.89 | PSR10015195.hg.1 | C10orf10 |
| TC10001216.hg.1 | 4.45 | PSR10015181.hg.1 | C10orf10 |
| TC01000785.hg.1 | 8.4 | JUC01006579.hg.1 | AK5 |
| TC01000785.hg.1 | 6.85 | JUC01006573.hg.1 | AK5 |
| TC01000785.hg.1 | 4.26 | PSR01012502.hg.1 | AK5 |
| TC01000785.hg.1 | 3.83 | PSR01012501.hg.1 | AK5 |

| | | | |
|-----------------|-------|------------------|----------|
| TC01000785.hg.1 | 3.34 | PSR01012526.hg.1 | AK5 |
| TC01000785.hg.1 | 3.33 | JUC01006574.hg.1 | AK5 |
| TC01000785.hg.1 | 3.09 | PSR01012500.hg.1 | AK5 |
| TC01000785.hg.1 | 2.99 | PSR01012515.hg.1 | AK5 |
| TC01000785.hg.1 | 2.97 | PSR01012506.hg.1 | AK5 |
| TC01000785.hg.1 | 2.48 | JUC01006575.hg.1 | AK5 |
| TC01000785.hg.1 | 2.31 | PSR01012510.hg.1 | AK5 |
| TC01000785.hg.1 | -2.03 | PSR01012522.hg.1 | AK5 |
| TC01000785.hg.1 | -2.07 | JUC01006567.hg.1 | AK5 |
| TC01000785.hg.1 | -2.19 | JUC01006565.hg.1 | AK5 |
| TC01000785.hg.1 | -2.24 | JUC01006571.hg.1 | AK5 |
| TC01000785.hg.1 | -2.35 | PSR01012518.hg.1 | AK5 |
| TC01000785.hg.1 | -2.36 | PSR01012521.hg.1 | AK5 |
| TC01000785.hg.1 | -2.77 | PSR01012517.hg.1 | AK5 |
| TC01000785.hg.1 | -3.84 | PSR01012520.hg.1 | AK5 |
| TC01000785.hg.1 | -3.96 | JUC01006566.hg.1 | AK5 |
| TC01000785.hg.1 | -4.5 | JUC01006564.hg.1 | AK5 |
| TC12001960.hg.1 | 8.4 | PSR12025515.hg.1 | C12orf76 |
| TC12001960.hg.1 | 5.03 | JUC12014254.hg.1 | C12orf76 |
| TC12001960.hg.1 | 4.05 | PSR12025514.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.81 | PSR12025504.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.35 | JUC12014240.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.29 | PSR12025507.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.26 | PSR12025492.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.25 | PSR12025511.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.13 | PSR12025501.hg.1 | C12orf76 |
| TC12001960.hg.1 | 3.02 | JUC12014248.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.73 | JUC12014249.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.72 | PSR12025506.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.64 | PSR12025510.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.54 | JUC12014255.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.52 | PSR12025502.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.5 | PSR12025491.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.46 | PSR12025508.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.25 | PSR12025493.hg.1 | C12orf76 |
| TC12001960.hg.1 | 2.25 | PSR12025498.hg.1 | C12orf76 |
| TC10000593.hg.1 | 8.36 | JUC10003740.hg.1 | CDHR1 |
| TC10000593.hg.1 | 2.17 | JUC10003739.hg.1 | CDHR1 |
| TC10000593.hg.1 | -2.3 | JUC10003733.hg.1 | CDHR1 |
| TC10000593.hg.1 | -4.36 | PSR10006459.hg.1 | CDHR1 |
| TC21000400.hg.1 | 8.32 | JUC21002358.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 4.38 | JUC21002366.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 3.46 | JUC21002374.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.88 | JUC21002357.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.77 | PSR21004525.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.47 | PSR21004489.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.43 | JUC21002376.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.41 | PSR21004487.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.37 | PSR21004488.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.26 | PSR21004491.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.19 | JUC21002391.hg.1 | SYNJ1 |
| TC21000400.hg.1 | 2.14 | PSR21004524.hg.1 | SYNJ1 |
| TC21000400.hg.1 | -2.81 | JUC21002399.hg.1 | SYNJ1 |
| TC21000400.hg.1 | -2.99 | JUC21002377.hg.1 | SYNJ1 |
| TC21000400.hg.1 | -4.31 | JUC21002386.hg.1 | SYNJ1 |
| TC02004994.hg.1 | 8.31 | JUC02031859.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 6.37 | PSR02009898.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 4.52 | PSR02009907.hg.1 | IL1RL1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC02004994.hg.1 | 4.45 | PSR02009906.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 3.84 | PSR02009905.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 3.79 | PSR02009877.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 3.76 | PSR02009904.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 3.49 | PSR02009908.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 3.4 | PSR02009885.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 2.79 | PSR02009879.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 2.43 | PSR02009874.hg.1 | IL1RL1 |
| TC02004994.hg.1 | 2.02 | PSR02009897.hg.1 | IL1RL1 |
| TC02004994.hg.1 | -2.71 | JUC02031874.hg.1 | IL1RL1 |
| TC17000636.hg.1 | 8.27 | JUC17004403.hg.1 | IGF2BP1 |
| TC17000636.hg.1 | 3.13 | JUC17004414.hg.1 | IGF2BP1 |
| TC17000636.hg.1 | 2.4 | JUC17004408.hg.1 | IGF2BP1 |
| TC17000636.hg.1 | -2.06 | PSR17007948.hg.1 | IGF2BP1 |
| TC17000636.hg.1 | -2.24 | PSR17007961.hg.1 | IGF2BP1 |
| TC17000636.hg.1 | -2.28 | PSR17007952.hg.1 | IGF2BP1 |
| TC01002884.hg.1 | 8.26 | JUC01024205.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 6.62 | PSR01045040.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 6.2 | PSR01045074.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 5.4 | PSR01045039.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 4.98 | PSR01045073.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 4.21 | PSR01045046.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 4.06 | PSR01045038.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 3.57 | JUC01024220.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 2.4 | JUC01024209.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | 2.26 | JUC01024213.hg.1 | ARHGAP29 |
| TC01002884.hg.1 | -2.25 | JUC01024221.hg.1 | ARHGAP29 |
| TC01000972.hg.1 | 8.25 | JUC01008101.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 5.99 | PSR01015486.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 5.29 | PSR01015483.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 5.11 | JUC01008091.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 5.05 | PSR01015473.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 5.01 | PSR01015500.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 4.27 | JUC01008095.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 4.14 | PSR01015504.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 3.98 | JUC01008105.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 3.71 | PSR01015481.hg.1 | CHI3L2 |
| TC01000972.hg.1 | 2.66 | PSR01015484.hg.1 | CHI3L2 |
| TC01000972.hg.1 | -2.74 | JUC01008096.hg.1 | CHI3L2 |
| TC03001427.hg.1 | 8.24 | PSR03025664.hg.1 | HYAL1 |
| TC03001427.hg.1 | 3.75 | JUC03012572.hg.1 | HYAL1 |
| TC03001427.hg.1 | 3.29 | JUC03012577.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.57 | PSR03025665.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.53 | PSR03025666.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.39 | PSR03025658.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.34 | PSR03025651.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.29 | PSR03025659.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.14 | PSR03025667.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.08 | PSR03025668.hg.1 | HYAL1 |
| TC03001427.hg.1 | 2.01 | PSR03025652.hg.1 | HYAL1 |
| TC03001427.hg.1 | -3.09 | PSR03025649.hg.1 | HYAL1 |
| TC03001427.hg.1 | -6.97 | JUC03012573.hg.1 | HYAL1 |
| TC02000230.hg.1 | 8.23 | JUC02001778.hg.1 | CRIM1 |
| TC02000230.hg.1 | 3.35 | JUC02001789.hg.1 | CRIM1 |
| TC02000230.hg.1 | 3.33 | JUC02001791.hg.1 | CRIM1 |
| TC02000230.hg.1 | 3.21 | JUC02001787.hg.1 | CRIM1 |
| TC02000230.hg.1 | 2.23 | PSR02003383.hg.1 | CRIM1 |
| TC02000230.hg.1 | -2.06 | JUC02001784.hg.1 | CRIM1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC02000230.hg.1 | -2.71 | PSR02003414.hg.1 | CRIM1 |
| TC02000230.hg.1 | -2.96 | JUC02001771.hg.1 | CRIM1 |
| TC06001313.hg.1 | 8.2 | PSR06015735.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 6.64 | PSR06015716.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 5.84 | PSR06015734.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 5.79 | JUC06007851.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 5.4 | JUC06007857.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 5.37 | JUC06007860.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 5.37 | JUC06007861.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 5.34 | JUC06007849.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 3.22 | JUC06007845.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 3.2 | JUC06007846.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 2.33 | JUC06007859.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 2.25 | JUC06007850.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 2.16 | PSR06015721.hg.1 | MBOAT1 |
| TC06001313.hg.1 | 2.12 | PSR06015715.hg.1 | MBOAT1 |
| TC01003266.hg.1 | 8.19 | PSR01050262.hg.1 | S100A4 |
| TC01003266.hg.1 | 7.09 | PSR01050254.hg.1 | S100A4 |
| TC01003266.hg.1 | 6.08 | JUC01026573.hg.1 | S100A4 |
| TC01003266.hg.1 | 5.85 | PSR01050261.hg.1 | S100A4 |
| TC01003266.hg.1 | 5.69 | PSR01050255.hg.1 | S100A4 |
| TC01003266.hg.1 | 3.43 | PSR01050256.hg.1 | S100A4 |
| TC01000323.hg.1 | 8.14 | JUC01002639.hg.1 | LDLRAP1 |
| TC01000323.hg.1 | 2.79 | PSR01004937.hg.1 | LDLRAP1 |
| TC01000323.hg.1 | 2.76 | PSR01004938.hg.1 | LDLRAP1 |
| TC01000323.hg.1 | 2.49 | JUC01002638.hg.1 | LDLRAP1 |
| TC01000323.hg.1 | 2.19 | PSR01004944.hg.1 | LDLRAP1 |
| TC01000323.hg.1 | 2.05 | PSR01004942.hg.1 | LDLRAP1 |
| TC06001355.hg.1 | 8.1 | JUC06008083.hg.1 | HIST1H4H, H |
| TC06001355.hg.1 | 2.82 | PSR06016180.hg.1 | HIST1H4H, H |
| TC06001355.hg.1 | 2.18 | PSR06016179.hg.1 | HIST1H4H, H |
| TC08001659.hg.1 | 8.03 | JUC08011053.hg.1 | NDRG1 |
| TC08001659.hg.1 | 5.17 | PSR08021681.hg.1 | NDRG1 |
| TC08001659.hg.1 | 5.08 | PSR08021677.hg.1 | NDRG1 |
| TC08001659.hg.1 | 5.05 | PSR08021688.hg.1 | NDRG1 |
| TC08001659.hg.1 | 4 | PSR08021689.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.94 | JUC08011041.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.76 | PSR08021680.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.74 | PSR08021691.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.63 | JUC08011051.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.45 | PSR08021675.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.38 | JUC08011042.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.35 | JUC08011052.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.34 | JUC08011054.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.3 | JUC08011074.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.28 | PSR08021690.hg.1 | NDRG1 |
| TC08001659.hg.1 | 3.02 | JUC08011047.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.86 | PSR08021679.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.47 | JUC08011067.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.43 | JUC08011048.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.42 | JUC08011043.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.29 | JUC08011070.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.09 | PSR08021674.hg.1 | NDRG1 |
| TC08001659.hg.1 | 2.03 | JUC08011049.hg.1 | NDRG1 |
| TC08001659.hg.1 | -2 | PSR08021612.hg.1 | NDRG1 |
| TC08001659.hg.1 | -2.02 | PSR08021630.hg.1 | NDRG1 |
| TC08001659.hg.1 | -2.38 | PSR08021664.hg.1 | NDRG1 |
| TC08001659.hg.1 | -2.75 | PSR08021633.hg.1 | NDRG1 |

| | | | |
|-----------------|-------|------------------|--------|
| TC03001673.hg.1 | 7.96 | JUC03015000.hg.1 | LSAMP |
| TC03001673.hg.1 | 5.56 | JUC03015005.hg.1 | LSAMP |
| TC03001673.hg.1 | 4.92 | PSR03030207.hg.1 | LSAMP |
| TC03001673.hg.1 | 4.88 | JUC03015006.hg.1 | LSAMP |
| TC03001673.hg.1 | 4.63 | PSR03030206.hg.1 | LSAMP |
| TC03001673.hg.1 | 4.07 | PSR03030212.hg.1 | LSAMP |
| TC03001673.hg.1 | 3.83 | PSR03030208.hg.1 | LSAMP |
| TC03001673.hg.1 | 3.48 | PSR03030202.hg.1 | LSAMP |
| TC03001673.hg.1 | 3.32 | PSR03030210.hg.1 | LSAMP |
| TC03001673.hg.1 | 3.2 | PSR03030191.hg.1 | LSAMP |
| TC03001673.hg.1 | 2.99 | PSR03030204.hg.1 | LSAMP |
| TC03001673.hg.1 | 2.77 | JUC03015010.hg.1 | LSAMP |
| TC03001673.hg.1 | 2.65 | PSR03030213.hg.1 | LSAMP |
| TC03001673.hg.1 | 2.51 | PSR03030211.hg.1 | LSAMP |
| TC03001673.hg.1 | 2.39 | JUC03015003.hg.1 | LSAMP |
| TC03001673.hg.1 | 2.17 | PSR03030214.hg.1 | LSAMP |
| TC03001673.hg.1 | -2.54 | JUC03015007.hg.1 | LSAMP |
| TC16001225.hg.1 | 7.95 | PSR16016942.hg.1 | NQO1 |
| TC16001225.hg.1 | 5.97 | PSR16016943.hg.1 | NQO1 |
| TC16001225.hg.1 | 2.85 | JUC16009538.hg.1 | NQO1 |
| TC16001225.hg.1 | 2.32 | PSR16016940.hg.1 | NQO1 |
| TC16001225.hg.1 | 2.29 | JUC16009545.hg.1 | NQO1 |
| TC16001225.hg.1 | -2.04 | JUC16009540.hg.1 | NQO1 |
| TC16001225.hg.1 | -2.16 | JUC16009544.hg.1 | NQO1 |
| TC16001225.hg.1 | -3.37 | JUC16009543.hg.1 | NQO1 |
| TC17002889.hg.1 | 7.94 | JUC17018847.hg.1 | TRIM16 |
| TC17002889.hg.1 | 6.89 | PSR17015793.hg.1 | TRIM16 |
| TC17002889.hg.1 | 5.35 | PSR17015791.hg.1 | TRIM16 |
| TC17002889.hg.1 | 4.94 | JUC17018853.hg.1 | TRIM16 |
| TC17002889.hg.1 | 4.41 | PSR17015804.hg.1 | TRIM16 |
| TC17002889.hg.1 | 4.27 | JUC17018857.hg.1 | TRIM16 |
| TC17002889.hg.1 | 4.25 | PSR17015798.hg.1 | TRIM16 |
| TC17002889.hg.1 | 4.18 | PSR17015799.hg.1 | TRIM16 |
| TC17002889.hg.1 | 3.74 | PSR17015800.hg.1 | TRIM16 |
| TC17002889.hg.1 | 3.42 | PSR17015801.hg.1 | TRIM16 |
| TC17002889.hg.1 | 3.32 | JUC17018848.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.93 | PSR17015795.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.66 | PSR17015802.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.63 | PSR17015803.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.36 | PSR17015796.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.19 | PSR17015797.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.19 | JUC17018844.hg.1 | TRIM16 |
| TC17002889.hg.1 | 2.15 | PSR17015790.hg.1 | TRIM16 |
| TC17002889.hg.1 | -2.24 | PSR17015784.hg.1 | TRIM16 |
| TC10000381.hg.1 | 7.92 | JUC10002504.hg.1 | ZNF365 |
| TC10000381.hg.1 | 5.08 | JUC10002496.hg.1 | ZNF365 |
| TC10000381.hg.1 | 4.17 | PSR10004319.hg.1 | ZNF365 |
| TC10000381.hg.1 | 3.29 | JUC10002495.hg.1 | ZNF365 |
| TC10000381.hg.1 | 2.77 | PSR10004316.hg.1 | ZNF365 |
| TC10000381.hg.1 | -3.45 | PSR10004310.hg.1 | ZNF365 |
| TC01006305.hg.1 | 7.91 | JUC01039746.hg.1 | YY1AP1 |
| TC01006305.hg.1 | 2.88 | JUC01039752.hg.1 | YY1AP1 |
| TC01006305.hg.1 | 2.84 | PSR01051582.hg.1 | YY1AP1 |
| TC01006305.hg.1 | 2.66 | PSR01051516.hg.1 | YY1AP1 |
| TC01006305.hg.1 | 2.41 | JUC01039759.hg.1 | YY1AP1 |
| TC01006305.hg.1 | 2.27 | JUC01039731.hg.1 | YY1AP1 |
| TC01006305.hg.1 | -2.37 | JUC01039738.hg.1 | YY1AP1 |
| TC01006305.hg.1 | -2.96 | PSR01051544.hg.1 | YY1AP1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC17000241.hg.1 | 7.91 | JUC17001949.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 6.24 | PSR17003384.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 5.9 | PSR17003370.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 4.87 | PSR17003386.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 4.62 | JUC17001927.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 4.16 | PSR17003381.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 4.08 | JUC17001940.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 3.55 | PSR17003385.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 3.46 | JUC17001928.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 3.43 | PSR17003401.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 3.43 | JUC17001953.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 3.17 | JUC17001933.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 3.02 | PSR17003374.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 2.91 | PSR17003389.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 2.79 | JUC17001929.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 2.74 | PSR17003405.hg.1 | SLC47A1 |
| TC17000241.hg.1 | 2.26 | PSR17003379.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -2.11 | JUC17001936.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -2.12 | PSR17003375.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -2.52 | PSR17003398.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -2.57 | PSR17003397.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -2.59 | PSR17003399.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -2.87 | JUC17001931.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -3.12 | PSR17003378.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -3.45 | JUC17001938.hg.1 | SLC47A1 |
| TC17000241.hg.1 | -4.79 | JUC17001946.hg.1 | SLC47A1 |
| TC19001582.hg.1 | 7.88 | JUC19012346.hg.1 | PSG5 |
| TC19001582.hg.1 | 6.14 | JUC19012349.hg.1 | PSG5 |
| TC19001582.hg.1 | 5.91 | PSR19021660.hg.1 | PSG5 |
| TC19001582.hg.1 | 5.54 | PSR19021659.hg.1 | PSG5 |
| TC19001582.hg.1 | 5.53 | JUC19012352.hg.1 | PSG5 |
| TC19001582.hg.1 | 5.34 | PSR19021668.hg.1 | PSG5 |
| TC19001582.hg.1 | 5.1 | PSR19021669.hg.1 | PSG5 |
| TC19001582.hg.1 | 5.03 | PSR19021675.hg.1 | PSG5 |
| TC19001582.hg.1 | 4.44 | JUC19012350.hg.1 | PSG5 |
| TC19001582.hg.1 | 4.37 | PSR19021667.hg.1 | PSG5 |
| TC19001582.hg.1 | 4.25 | PSR19021670.hg.1 | PSG5 |
| TC19001582.hg.1 | 3.13 | PSR19021663.hg.1 | PSG5 |
| TC19001582.hg.1 | 2.78 | JUC19012359.hg.1 | PSG5 |
| TC19001582.hg.1 | -2.03 | JUC19012357.hg.1 | PSG5 |
| TC16000186.hg.1 | 7.81 | JUC16001430.hg.1 | PDXDC1 |
| TC16000186.hg.1 | 4.65 | JUC16001414.hg.1 | PDXDC1 |
| TC16000186.hg.1 | 2.02 | PSR16002809.hg.1 | PDXDC1 |
| TC16000186.hg.1 | -2.17 | JUC16001412.hg.1 | PDXDC1 |
| TC16000186.hg.1 | -2.48 | JUC16001418.hg.1 | PDXDC1 |
| TC03000297.hg.1 | 7.78 | JUC03003040.hg.1 | APEH |
| TC03000297.hg.1 | -2.11 | PSR03006060.hg.1 | APEH |
| TC03000297.hg.1 | -2.52 | JUC03003035.hg.1 | APEH |
| TC06004059.hg.1 | 7.78 | JUC06020787.hg.1 | HLA-C |
| TC06004059.hg.1 | 2.69 | PSR06017338.hg.1 | HLA-C |
| TC06004059.hg.1 | 2.68 | PSR06017314.hg.1 | HLA-C |
| TC06004059.hg.1 | 2.55 | JUC06020796.hg.1 | HLA-C |
| TC06004059.hg.1 | 2.37 | JUC06020793.hg.1 | HLA-C |
| TC06004059.hg.1 | 2.02 | PSR06017311.hg.1 | HLA-C |
| TC06004059.hg.1 | -3.2 | JUC06020786.hg.1 | HLA-C |
| TC04002924.hg.1 | 7.77 | PSR04019961.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 4.15 | PSR04019957.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 3.66 | PSR04019939.hg.1 | SLC39A8 |

| | | | |
|-----------------|-------|------------------|---------|
| TC04002924.hg.1 | 3.57 | PSR04019955.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 3.54 | PSR04019945.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 2.95 | PSR04019938.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 2.58 | JUC04016969.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 2.21 | PSR04019956.hg.1 | SLC39A8 |
| TC04002924.hg.1 | 2.05 | PSR04019959.hg.1 | SLC39A8 |
| TC08002614.hg.1 | 7.76 | JUC08015219.hg.1 | ZNF395 |
| TC08002614.hg.1 | 4.93 | PSR08014006.hg.1 | ZNF395 |
| TC08002614.hg.1 | 4.91 | JUC08015216.hg.1 | ZNF395 |
| TC08002614.hg.1 | 4.83 | JUC08015211.hg.1 | ZNF395 |
| TC08002614.hg.1 | 4.72 | JUC08015224.hg.1 | ZNF395 |
| TC08002614.hg.1 | 4.35 | JUC08015222.hg.1 | ZNF395 |
| TC08002614.hg.1 | 4.33 | PSR08013999.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.84 | JUC08015212.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.79 | PSR08014002.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.71 | JUC08015215.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.6 | JUC08015223.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.52 | JUC08015229.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.42 | PSR08014005.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.39 | JUC08015230.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.36 | PSR08013994.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.03 | PSR08013985.hg.1 | ZNF395 |
| TC08002614.hg.1 | 3.01 | JUC08015218.hg.1 | ZNF395 |
| TC08002614.hg.1 | 2.62 | JUC08015214.hg.1 | ZNF395 |
| TC08002614.hg.1 | 2.35 | PSR08013997.hg.1 | ZNF395 |
| TC08002614.hg.1 | 2.24 | JUC08015231.hg.1 | ZNF395 |
| TC08002614.hg.1 | -2.11 | JUC08015225.hg.1 | ZNF395 |
| TC08002614.hg.1 | -2.16 | PSR08013978.hg.1 | ZNF395 |
| TC08002614.hg.1 | -2.35 | JUC08015226.hg.1 | ZNF395 |
| TC08002614.hg.1 | -2.94 | PSR08013981.hg.1 | ZNF395 |
| TC08002614.hg.1 | -3.44 | JUC08015228.hg.1 | ZNF395 |
| TC08002614.hg.1 | -4.12 | JUC08015232.hg.1 | ZNF395 |
| TC01002179.hg.1 | 7.75 | JUC01017995.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 4.21 | JUC01018000.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 3.84 | JUC01018016.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 2.7 | JUC01018010.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 2.18 | PSR01033568.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 2.1 | PSR01033545.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 2.07 | PSR01033588.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 2.02 | JUC01017997.hg.1 | SLC2A5 |
| TC01002179.hg.1 | 2.01 | JUC01017998.hg.1 | SLC2A5 |
| TC02000184.hg.1 | 7.74 | JUC02001312.hg.1 | PLB1 |
| TC02000184.hg.1 | 6.68 | PSR02002638.hg.1 | PLB1 |
| TC02000184.hg.1 | 4.12 | PSR02002644.hg.1 | PLB1 |
| TC02000184.hg.1 | 4.06 | PSR02002633.hg.1 | PLB1 |
| TC02000184.hg.1 | 3.71 | JUC02001293.hg.1 | PLB1 |
| TC02000184.hg.1 | 3.5 | JUC02001316.hg.1 | PLB1 |
| TC02000184.hg.1 | 3.08 | JUC02001315.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.94 | PSR02002642.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.79 | JUC02001327.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.41 | JUC02001289.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.31 | PSR02002643.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.24 | JUC02001307.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.17 | JUC02001313.hg.1 | PLB1 |
| TC02000184.hg.1 | 2.04 | PSR02002607.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.05 | PSR02002651.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.36 | PSR02002630.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.38 | JUC02001296.hg.1 | PLB1 |

| | | | |
|-----------------|-------|------------------|-------|
| TC02000184.hg.1 | -2.43 | PSR02002623.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.44 | PSR02002617.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.44 | PSR02002652.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.61 | PSR02002625.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.68 | PSR02002597.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.71 | PSR02002596.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.71 | JUC02001328.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.77 | PSR02002606.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.77 | PSR02002628.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.82 | JUC02001317.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.86 | JUC02001283.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.88 | PSR02002593.hg.1 | PLB1 |
| TC02000184.hg.1 | -2.95 | PSR02002586.hg.1 | PLB1 |
| TC02000184.hg.1 | -3 | PSR02002624.hg.1 | PLB1 |
| TC02000184.hg.1 | -3 | JUC02001290.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.01 | PSR02002611.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.11 | JUC02001311.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.16 | JUC02001303.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.23 | PSR02002582.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.59 | PSR02002631.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.75 | PSR02002635.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.81 | PSR02002626.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.81 | JUC02001338.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.85 | JUC02001319.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.87 | PSR02002573.hg.1 | PLB1 |
| TC02000184.hg.1 | -3.92 | PSR02002584.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.01 | PSR02002629.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.08 | JUC02001331.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.18 | PSR02002616.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.23 | JUC02001286.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.23 | JUC02001298.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.27 | JUC02001282.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.28 | JUC02001285.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.33 | PSR02002571.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.36 | PSR02002581.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.39 | PSR02002632.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.48 | PSR02002609.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.49 | PSR02002570.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.63 | PSR02002591.hg.1 | PLB1 |
| TC02000184.hg.1 | -4.77 | PSR02002575.hg.1 | PLB1 |
| TC02000184.hg.1 | -5.02 | PSR02002602.hg.1 | PLB1 |
| TC02000184.hg.1 | -5.3 | JUC02001278.hg.1 | PLB1 |
| TC02000184.hg.1 | -5.37 | PSR02002569.hg.1 | PLB1 |
| TC02000184.hg.1 | -5.52 | PSR02002587.hg.1 | PLB1 |
| TC02000184.hg.1 | -5.67 | JUC02001329.hg.1 | PLB1 |
| TC02000184.hg.1 | -6.02 | JUC02001310.hg.1 | PLB1 |
| TC02000184.hg.1 | -6.4 | PSR02002590.hg.1 | PLB1 |
| TC02000184.hg.1 | -6.55 | PSR02002576.hg.1 | PLB1 |
| TC02000184.hg.1 | -6.89 | PSR02002579.hg.1 | PLB1 |
| TC02000184.hg.1 | -6.95 | PSR02002577.hg.1 | PLB1 |
| TC02000184.hg.1 | -6.97 | PSR02002585.hg.1 | PLB1 |
| TC02000184.hg.1 | -7.67 | PSR02002574.hg.1 | PLB1 |
| TC02000184.hg.1 | -8.11 | PSR02002589.hg.1 | PLB1 |
| TC0Y000052.hg.1 | 7.73 | PSR0Y000610.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 4.84 | PSR0Y000611.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 3.55 | JUC0Y000264.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 2.81 | JUC0Y000252.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 2.63 | JUC0Y000254.hg.1 | USP9Y |

| | | | |
|-----------------|-------|------------------|----------|
| TC0Y000052.hg.1 | 2.39 | JUC0Y000263.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 2.28 | PSR0Y000596.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 2.08 | JUC0Y000235.hg.1 | USP9Y |
| TC0Y000052.hg.1 | 2 | JUC0Y000273.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.14 | PSR0Y000606.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.16 | JUC0Y000246.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.18 | PSR0Y000583.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.2 | PSR0Y000585.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.34 | JUC0Y000245.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.4 | PSR0Y000576.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.5 | PSR0Y000584.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.63 | JUC0Y000269.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.72 | PSR0Y000575.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -2.98 | JUC0Y000281.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.16 | JUC0Y000259.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.17 | PSR0Y000605.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.44 | JUC0Y000241.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.53 | JUC0Y000238.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.63 | PSR0Y000582.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.75 | JUC0Y000247.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.79 | JUC0Y000278.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -3.8 | PSR0Y000580.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.03 | JUC0Y000262.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.07 | JUC0Y000240.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.07 | JUC0Y000268.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.09 | JUC0Y000266.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.32 | JUC0Y000242.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.56 | JUC0Y000275.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.69 | PSR0Y000598.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.73 | JUC0Y000279.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -4.91 | PSR0Y000617.hg.1 | USP9Y |
| TC0Y000052.hg.1 | -5.21 | PSR0Y000568.hg.1 | USP9Y |
| TC17002858.hg.1 | 7.73 | PSR17007738.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | 5.01 | JUC17018423.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | 2.59 | JUC17018421.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | 2.13 | PSR17007739.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | -2.01 | PSR17007734.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | -2.31 | PSR17007735.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | -2.76 | JUC17018413.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | -2.81 | JUC17018411.hg.1 | HOXB-AS3 |
| TC17002858.hg.1 | -4.43 | PSR17007736.hg.1 | HOXB-AS3 |
| TC10000826.hg.1 | 7.67 | JUC10005569.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | 5.95 | JUC10005556.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | 4.28 | PSR10009968.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | 2.77 | JUC10005566.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | 2.67 | PSR10009984.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | 2.33 | JUC10005563.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | 2.12 | PSR10009958.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | -2.06 | PSR10009974.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | -2.19 | JUC10005560.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | -2.3 | JUC10005562.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | -2.37 | JUC10005567.hg.1 | PLEKHS1 |
| TC10000826.hg.1 | -3.46 | JUC10005557.hg.1 | PLEKHS1 |
| TC19001250.hg.1 | 7.64 | JUC19010219.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 6.59 | JUC19010198.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 5.02 | JUC19010217.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 4.54 | JUC19010201.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 4.25 | PSR19017572.hg.1 | NOTCH3 |

| | | | |
|-----------------|-------|------------------|--------|
| TC19001250.hg.1 | 3.84 | JUC19010206.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 3.59 | PSR19017555.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 3.57 | PSR19017554.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 3.2 | PSR19017553.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 3.07 | JUC19010199.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 3.03 | JUC19010200.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.76 | JUC19010203.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.59 | PSR19017548.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.54 | PSR19017549.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.46 | JUC19010212.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.42 | PSR19017550.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.41 | PSR19017558.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.36 | JUC19010192.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.34 | PSR19017556.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.23 | PSR19017551.hg.1 | NOTCH3 |
| TC19001250.hg.1 | 2.01 | PSR19017546.hg.1 | NOTCH3 |
| TC19001250.hg.1 | -2 | JUC19010215.hg.1 | NOTCH3 |
| TC15000270.hg.1 | 7.63 | PSR15001691.hg.1 | THBS1 |
| TC15000270.hg.1 | 6.82 | PSR15001722.hg.1 | THBS1 |
| TC15000270.hg.1 | 5.39 | PSR15001698.hg.1 | THBS1 |
| TC15000270.hg.1 | 5.35 | PSR15001712.hg.1 | THBS1 |
| TC15000270.hg.1 | 4.11 | PSR15001697.hg.1 | THBS1 |
| TC15000270.hg.1 | 3.4 | PSR15001696.hg.1 | THBS1 |
| TC15000270.hg.1 | 3.32 | PSR15001721.hg.1 | THBS1 |
| TC15000270.hg.1 | 3.27 | PSR15001685.hg.1 | THBS1 |
| TC15000270.hg.1 | 2.56 | PSR15001677.hg.1 | THBS1 |
| TC15000270.hg.1 | 2.43 | JUC15000740.hg.1 | THBS1 |
| TC15000270.hg.1 | 2.12 | JUC15000735.hg.1 | THBS1 |
| TC12001984.hg.1 | 7.62 | JUC12014552.hg.1 | DDX54 |
| TC12001984.hg.1 | 2.1 | PSR12026080.hg.1 | DDX54 |
| TC12001984.hg.1 | -2.12 | JUC12014562.hg.1 | DDX54 |
| TC11000316.hg.1 | 7.61 | JUC11002135.hg.1 | HIPK3 |
| TC11000316.hg.1 | -2.01 | PSR11004039.hg.1 | HIPK3 |
| TC12001277.hg.1 | 7.6 | JUC12009119.hg.1 | ERP27 |
| TC12001277.hg.1 | 5.01 | PSR12016635.hg.1 | ERP27 |
| TC12001277.hg.1 | 4.21 | PSR12016640.hg.1 | ERP27 |
| TC12001277.hg.1 | 3.55 | PSR12016637.hg.1 | ERP27 |
| TC12001277.hg.1 | 3.5 | PSR12016638.hg.1 | ERP27 |
| TC12001277.hg.1 | -2.12 | JUC12009116.hg.1 | ERP27 |
| TC12001277.hg.1 | -2.16 | PSR12016628.hg.1 | ERP27 |
| TC12001277.hg.1 | -2.49 | PSR12016630.hg.1 | ERP27 |
| TC12001277.hg.1 | -4.42 | JUC12009115.hg.1 | ERP27 |
| TC15000622.hg.1 | 7.59 | JUC15002502.hg.1 | SMAD3 |
| TC15000622.hg.1 | 4.72 | JUC15002500.hg.1 | SMAD3 |
| TC15000622.hg.1 | 3.72 | PSR15005089.hg.1 | SMAD3 |
| TC15000622.hg.1 | 3.17 | JUC15002501.hg.1 | SMAD3 |
| TC15000622.hg.1 | 3.11 | PSR15005085.hg.1 | SMAD3 |
| TC15000622.hg.1 | 2.77 | PSR15005093.hg.1 | SMAD3 |
| TC15000622.hg.1 | 2.04 | PSR15005097.hg.1 | SMAD3 |
| TC17000536.hg.1 | 7.57 | JUC17003668.hg.1 | WNK4 |
| TC17000536.hg.1 | 5.7 | JUC17003676.hg.1 | WNK4 |
| TC17000536.hg.1 | 4.95 | PSR17006514.hg.1 | WNK4 |
| TC17000536.hg.1 | 3.75 | JUC17003670.hg.1 | WNK4 |
| TC17000536.hg.1 | 3.44 | PSR17006532.hg.1 | WNK4 |
| TC17000536.hg.1 | 3.38 | JUC17003662.hg.1 | WNK4 |
| TC17000536.hg.1 | 3.1 | PSR17006508.hg.1 | WNK4 |
| TC17000536.hg.1 | 3.06 | PSR17006510.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.95 | PSR17006523.hg.1 | WNK4 |

| | | | |
|-----------------|--------|-------------------|--------------|
| TC17000536.hg.1 | 2.87 | JUC17003656.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.66 | PSR17006534.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.49 | PSR17006507.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.36 | PSR17006533.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.34 | JUC17003661.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.33 | PSR17006511.hg.1 | WNK4 |
| TC17000536.hg.1 | 2.21 | JUC17003671.hg.1 | WNK4 |
| TC17000536.hg.1 | -2.12 | JUC17003664.hg.1 | WNK4 |
| TC17000536.hg.1 | -2.23 | PSR17006524.hg.1 | WNK4 |
| TC17000536.hg.1 | -3.29 | PSR17006525.hg.1 | WNK4 |
| TC17000536.hg.1 | -3.57 | PSR17006536.hg.1 | WNK4 |
| TC17000536.hg.1 | -4.46 | JUC17003677.hg.1 | WNK4 |
| TC17000536.hg.1 | -4.47 | JUC17003665.hg.1 | WNK4 |
| TC17000536.hg.1 | -5.01 | JUC17003674.hg.1 | WNK4 |
| TC17000536.hg.1 | -5.58 | PSR17006518.hg.1 | WNK4 |
| TC17000536.hg.1 | -5.89 | PSR17006520.hg.1 | WNK4 |
| TC17000536.hg.1 | -6.22 | PSR17006521.hg.1 | WNK4 |
| TC17000536.hg.1 | -6.64 | PSR17006535.hg.1 | WNK4 |
| TC17000536.hg.1 | -6.73 | JUC17003658.hg.1 | WNK4 |
| TC17000536.hg.1 | -9.43 | JUC17003659.hg.1 | WNK4 |
| TC17000536.hg.1 | -23.96 | JUC17003675.hg.1 | WNK4 |
| TC08000208.hg.1 | 7.53 | JUC08001473.hg.1 | EPHX2 |
| TC08000208.hg.1 | 3.26 | JUC08001479.hg.1 | EPHX2 |
| TC08000208.hg.1 | 3.06 | JUC08001494.hg.1 | EPHX2 |
| TC08000208.hg.1 | 2.4 | JUC08001483.hg.1 | EPHX2 |
| TC08000208.hg.1 | 2.01 | JUC08001489.hg.1 | EPHX2 |
| TC08000208.hg.1 | -2.17 | PSR08003028.hg.1 | EPHX2 |
| TC08000208.hg.1 | -2.62 | PSR08003009.hg.1 | EPHX2 |
| TC08000208.hg.1 | -2.81 | JUC08001469.hg.1 | EPHX2 |
| TC01003745.hg.1 | 7.52 | JUC01030000.hg.1 | NUAK2 |
| TC01003745.hg.1 | 4.75 | JUC01030002.hg.1 | NUAK2 |
| TC01003745.hg.1 | 2.91 | JUC01029999.hg.1 | NUAK2 |
| TC01003745.hg.1 | 2.77 | PSR01057454.hg.1 | NUAK2 |
| TC01003745.hg.1 | -2.86 | JUC01030001.hg.1 | NUAK2 |
| TC01003745.hg.1 | -2.91 | PSR01057457.hg.1 | NUAK2 |
| TC01003745.hg.1 | -5.35 | JUC01029997.hg.1 | NUAK2 |
| TC6_cox_hap2000 | 7.52 | JUC6_cox_hap2001E | HLA-C |
| TC6_cox_hap2000 | 2.59 | PSR6_cox_hap2002E | HLA-C |
| TC6_cox_hap2000 | 2.56 | PSR6_cox_hap20027 | HLA-C |
| TC6_cox_hap2000 | 2.46 | JUC6_cox_hap2001E | HLA-C |
| TC6_cox_hap2000 | 2.29 | JUC6_cox_hap2001E | HLA-C |
| TC6_cox_hap2000 | 2.03 | JUC6_cox_hap2001E | HLA-C |
| TC6_cox_hap2000 | -2.02 | JUC6_cox_hap2001E | HLA-C |
| TC6_cox_hap2000 | -3.31 | JUC6_cox_hap2001E | HLA-C |
| TC02002201.hg.1 | 7.5 | PSR02035635.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 6.48 | JUC02018392.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 5.52 | PSR02035631.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 4.87 | PSR02035634.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 4.6 | PSR02035629.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 4.57 | PSR02035630.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 4.2 | JUC02018410.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 4.18 | PSR02035633.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 3.46 | PSR02035632.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 3.31 | JUC02018409.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 2.95 | JUC02018407.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | 2.67 | PSR02035636.hg.1 | LIMS3L, LIMS |
| TC02002201.hg.1 | -2.17 | JUC02018400.hg.1 | LIMS3L, LIMS |
| TC02002645.hg.1 | 7.47 | JUC02022204.hg.1 | ANKRD44 |

| | | | |
|-----------------|-------|------------------|---------|
| TC02002645.hg.1 | 5.02 | JUC02022190.hg.1 | ANKRD44 |
| TC02002645.hg.1 | 2.24 | JUC02022203.hg.1 | ANKRD44 |
| TC02002645.hg.1 | 2.12 | JUC02022212.hg.1 | ANKRD44 |
| TC02002645.hg.1 | 2.09 | PSR02042446.hg.1 | ANKRD44 |
| TC02002645.hg.1 | 2.09 | JUC02022219.hg.1 | ANKRD44 |
| TC02002645.hg.1 | 2.07 | PSR02042419.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.14 | PSR02042417.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.18 | JUC02022199.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.26 | JUC02022225.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.68 | PSR02042425.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.71 | PSR02042443.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.79 | JUC02022218.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.85 | JUC02022221.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -2.88 | PSR02042440.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -3.07 | JUC02022201.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -3.46 | JUC02022211.hg.1 | ANKRD44 |
| TC02002645.hg.1 | -3.8 | PSR02042453.hg.1 | ANKRD44 |
| TC12002066.hg.1 | 7.46 | PSR12027178.hg.1 | HPD |
| TC12002066.hg.1 | 6.86 | JUC12015248.hg.1 | HPD |
| TC12002066.hg.1 | 6.06 | PSR12027180.hg.1 | HPD |
| TC12002066.hg.1 | 4.4 | PSR12027156.hg.1 | HPD |
| TC12002066.hg.1 | 3.52 | JUC12015240.hg.1 | HPD |
| TC12002066.hg.1 | 3.42 | JUC12015250.hg.1 | HPD |
| TC12002066.hg.1 | 3.03 | PSR12027177.hg.1 | HPD |
| TC12002066.hg.1 | 2.69 | PSR12027171.hg.1 | HPD |
| TC12002066.hg.1 | 2.41 | PSR12027176.hg.1 | HPD |
| TC12002066.hg.1 | -2 | PSR12027158.hg.1 | HPD |
| TC12002066.hg.1 | -2.11 | JUC12015243.hg.1 | HPD |
| TC12002066.hg.1 | -2.22 | JUC12015242.hg.1 | HPD |
| TC14001451.hg.1 | 7.45 | PSR14016287.hg.1 | LG MN |
| TC14001451.hg.1 | -2.04 | JUC14008413.hg.1 | LG MN |
| TC01001985.hg.1 | 7.44 | JUC01016734.hg.1 | ZNF238 |
| TC01001985.hg.1 | 3.06 | PSR01030750.hg.1 | ZNF238 |
| TC01001985.hg.1 | 2.7 | JUC01016730.hg.1 | ZNF238 |
| TC01001985.hg.1 | 2.52 | JUC01016733.hg.1 | ZNF238 |
| TC01001985.hg.1 | 2.43 | PSR01030745.hg.1 | ZNF238 |
| TC01001985.hg.1 | 2.38 | PSR01030744.hg.1 | ZNF238 |
| TC01003334.hg.1 | 7.42 | JUC01027218.hg.1 | SMG5 |
| TC01003334.hg.1 | 2.32 | JUC01027206.hg.1 | SMG5 |
| TC01003334.hg.1 | -2.28 | JUC01027201.hg.1 | SMG5 |
| TC01003334.hg.1 | -2.37 | JUC01027198.hg.1 | SMG5 |
| TC01003334.hg.1 | -2.67 | PSR01051948.hg.1 | SMG5 |
| TC07003315.hg.1 | 7.42 | JUC07020730.hg.1 | SUN1 |
| TC07003315.hg.1 | 4.34 | PSR07000120.hg.1 | SUN1 |
| TC07003315.hg.1 | 3.65 | PSR07000093.hg.1 | SUN1 |
| TC07003315.hg.1 | 3.2 | PSR07000101.hg.1 | SUN1 |
| TC07003315.hg.1 | 3.19 | PSR07000100.hg.1 | SUN1 |
| TC07003315.hg.1 | 3.12 | PSR07000102.hg.1 | SUN1 |
| TC07003315.hg.1 | 3.05 | JUC07020749.hg.1 | SUN1 |
| TC07003315.hg.1 | 3.02 | PSR07000115.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.79 | PSR07000151.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.75 | JUC07020735.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.65 | PSR07000103.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.61 | PSR07000110.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.56 | PSR07000109.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.51 | JUC07020726.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.42 | PSR07000119.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.33 | PSR07000160.hg.1 | SUN1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC07003315.hg.1 | 2.31 | JUC07020757.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.24 | PSR07000108.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.21 | JUC07020746.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.1 | PSR07000107.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.08 | PSR07000177.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.07 | PSR07000150.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.05 | PSR07000148.hg.1 | SUN1 |
| TC07003315.hg.1 | 2.01 | PSR07000127.hg.1 | SUN1 |
| TC03001800.hg.1 | 7.4 | JUC03016184.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | 3.06 | PSR03032636.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | 2.26 | JUC03016198.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | 2 | JUC03016186.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.54 | PSR03032642.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.72 | PSR03032653.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.74 | JUC03016189.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.75 | JUC03016185.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.79 | PSR03032652.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.88 | PSR03032654.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -2.98 | PSR03032627.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -3.02 | PSR03032631.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -3.2 | PSR03032638.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -3.49 | JUC03016195.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -5.21 | JUC03016182.hg.1 | SLCO2A1 |
| TC03001800.hg.1 | -7.26 | JUC03016191.hg.1 | SLCO2A1 |
| TC11000903.hg.1 | 7.39 | JUC11005972.hg.1 | FAT3 |
| TC11000903.hg.1 | 6.18 | JUC11005965.hg.1 | FAT3 |
| TC11000903.hg.1 | 4.69 | JUC11005970.hg.1 | FAT3 |
| TC11000903.hg.1 | 3.67 | PSR11011316.hg.1 | FAT3 |
| TC11000903.hg.1 | 2.28 | PSR11011319.hg.1 | FAT3 |
| TC11000903.hg.1 | 2.09 | JUC11005955.hg.1 | FAT3 |
| TC11000903.hg.1 | -2.03 | PSR11011321.hg.1 | FAT3 |
| TC02001769.hg.1 | 7.37 | JUC02014965.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 3.77 | PSR02028578.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.9 | PSR02028579.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.7 | PSR02028577.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.66 | PSR02028574.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.32 | PSR02028560.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.21 | PSR02028576.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.17 | PSR02028583.hg.1 | SLC8A1 |
| TC02001769.hg.1 | 2.12 | JUC02014963.hg.1 | SLC8A1 |
| TC03000816.hg.1 | 7.37 | JUC03007408.hg.1 | SELT |
| TC03000816.hg.1 | -2.59 | PSR03014668.hg.1 | SELT |
| TC03000816.hg.1 | -4.31 | JUC03007410.hg.1 | SELT |
| TC17000119.hg.1 | 7.35 | JUC17000979.hg.1 | CYB5D1 |
| TC17000119.hg.1 | 2.12 | PSR17001706.hg.1 | CYB5D1 |
| TC02000041.hg.1 | 7.33 | JUC02000259.hg.1 | ID2 |
| TC02000041.hg.1 | 7.07 | PSR02000477.hg.1 | ID2 |
| TC02000041.hg.1 | 6.37 | PSR02000478.hg.1 | ID2 |
| TC02000041.hg.1 | 6.32 | PSR02000476.hg.1 | ID2 |
| TC02000041.hg.1 | -2.57 | PSR02000480.hg.1 | ID2 |
| TC02004964.hg.1 | 7.31 | JUC02031711.hg.1 | LOC1001342 |
| TC02004964.hg.1 | 5.88 | PSR02004376.hg.1 | LOC1001342 |
| TC02004964.hg.1 | 4.3 | JUC02031710.hg.1 | LOC1001342 |
| TC02004964.hg.1 | 4.26 | PSR02004375.hg.1 | LOC1001342 |
| TC02004964.hg.1 | 2.97 | PSR02004378.hg.1 | LOC1001342 |
| TC11001450.hg.1 | 7.3 | JUC11009728.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 4.99 | PSR11018211.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 4.28 | JUC11009717.hg.1 | PLEKHA7 |

| | | | |
|-----------------|-------|------------------|---------|
| TC11001450.hg.1 | 3.38 | JUC11009723.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.9 | JUC11009722.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.71 | JUC11009740.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.71 | JUC11009745.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.57 | PSR11018200.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.37 | JUC11009741.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.35 | PSR11018212.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | 2.04 | JUC11009729.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.33 | PSR11018195.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.35 | PSR11018218.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.43 | PSR11018205.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.5 | PSR11018206.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.5 | PSR11018209.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.54 | PSR11018219.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -2.93 | PSR11018197.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -3.04 | JUC11009724.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -3.13 | JUC11009720.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -3.27 | PSR11018228.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -3.45 | JUC11009739.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -3.65 | JUC11009731.hg.1 | PLEKHA7 |
| TC11001450.hg.1 | -4.23 | JUC11009736.hg.1 | PLEKHA7 |
| TC01001423.hg.1 | 7.27 | PSR01022235.hg.1 | DDR2 |
| TC01001423.hg.1 | 4.12 | JUC01011721.hg.1 | DDR2 |
| TC01001423.hg.1 | -2.01 | PSR01022258.hg.1 | DDR2 |
| TC03000146.hg.1 | 7.26 | PSR03002686.hg.1 | RBMS3 |
| TC03000146.hg.1 | 2 | JUC03001422.hg.1 | RBMS3 |
| TC01002669.hg.1 | 7.23 | PSR01041948.hg.1 | LRP8 |
| TC01002669.hg.1 | 7.12 | JUC01022419.hg.1 | LRP8 |
| TC01002669.hg.1 | 7.05 | JUC01022429.hg.1 | LRP8 |
| TC01002669.hg.1 | 6.53 | JUC01022411.hg.1 | LRP8 |
| TC01002669.hg.1 | 5.66 | JUC01022420.hg.1 | LRP8 |
| TC01002669.hg.1 | 5.4 | PSR01041953.hg.1 | LRP8 |
| TC01002669.hg.1 | 5.24 | PSR01041939.hg.1 | LRP8 |
| TC01002669.hg.1 | 5.02 | PSR01041949.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.94 | PSR01041950.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.75 | PSR01041942.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.74 | PSR01041951.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.44 | JUC01022423.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.43 | JUC01022424.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.38 | JUC01022414.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.29 | PSR01041944.hg.1 | LRP8 |
| TC01002669.hg.1 | 4.28 | JUC01022412.hg.1 | LRP8 |
| TC01002669.hg.1 | 3.72 | JUC01022422.hg.1 | LRP8 |
| TC01002669.hg.1 | 3.71 | PSR01041935.hg.1 | LRP8 |
| TC01002669.hg.1 | 3.61 | PSR01041943.hg.1 | LRP8 |
| TC01002669.hg.1 | 3.39 | JUC01022435.hg.1 | LRP8 |
| TC01002669.hg.1 | 3.31 | PSR01041918.hg.1 | LRP8 |
| TC01002669.hg.1 | 3.03 | JUC01022425.hg.1 | LRP8 |
| TC01002669.hg.1 | 2.91 | JUC01022408.hg.1 | LRP8 |
| TC01002669.hg.1 | 2.75 | JUC01022413.hg.1 | LRP8 |
| TC01002669.hg.1 | 2.7 | PSR01041934.hg.1 | LRP8 |
| TC01002669.hg.1 | 2.69 | JUC01022421.hg.1 | LRP8 |
| TC01002669.hg.1 | 2.37 | JUC01022415.hg.1 | LRP8 |
| TC01002669.hg.1 | 2.23 | PSR01041945.hg.1 | LRP8 |
| TC01002669.hg.1 | 2 | PSR01041920.hg.1 | LRP8 |
| TC01002669.hg.1 | 2 | PSR01041940.hg.1 | LRP8 |
| TC01002669.hg.1 | -2.24 | JUC01022434.hg.1 | LRP8 |
| TC04001286.hg.1 | 7.23 | PSR04017583.hg.1 | CXCL2 |

| | | | |
|-----------------|-------|------------------|------------|
| TC04001286.hg.1 | 6.67 | PSR04017580.hg.1 | CXCL2 |
| TC04001286.hg.1 | 6.31 | PSR04017579.hg.1 | CXCL2 |
| TC04001286.hg.1 | 5.69 | PSR04017577.hg.1 | CXCL2 |
| TC04001286.hg.1 | 5.42 | PSR04017571.hg.1 | CXCL2 |
| TC04001286.hg.1 | 4.68 | PSR04017570.hg.1 | CXCL2 |
| TC04001286.hg.1 | 4.12 | JUC04009393.hg.1 | CXCL2 |
| TC04001286.hg.1 | 3.87 | PSR04017575.hg.1 | CXCL2 |
| TC04001286.hg.1 | 2.48 | PSR04017574.hg.1 | CXCL2 |
| TC04001286.hg.1 | -2.2 | JUC04009392.hg.1 | CXCL2 |
| TC04000514.hg.1 | 7.14 | JUC04003940.hg.1 | LOC1005070 |
| TC04000514.hg.1 | 2.6 | JUC04003941.hg.1 | LOC1005070 |
| TC04000514.hg.1 | 2.51 | PSR04007563.hg.1 | LOC1005070 |
| TC04000514.hg.1 | 2.36 | JUC04003925.hg.1 | LOC1005070 |
| TC04000514.hg.1 | 2.25 | PSR04007558.hg.1 | LOC1005070 |
| TC04000514.hg.1 | 2.23 | PSR04007555.hg.1 | LOC1005070 |
| TC04000514.hg.1 | -2.68 | PSR04007556.hg.1 | LOC1005070 |
| TC10002941.hg.1 | 7.14 | JUC10017226.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 3.7 | JUC10017233.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 3.29 | JUC10017232.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.96 | PSR10006942.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.91 | PSR10006933.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.74 | PSR10006934.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.59 | PSR10006930.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.44 | PSR10006939.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.13 | JUC10017229.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.06 | PSR10006932.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | 2.01 | JUC10017227.hg.1 | STAMBPL1 |
| TC10002941.hg.1 | -3.51 | JUC10017223.hg.1 | STAMBPL1 |
| TC18000567.hg.1 | 7.1 | JUC18003951.hg.1 | RTTN |
| TC18000567.hg.1 | 4.33 | JUC18004000.hg.1 | RTTN |
| TC18000567.hg.1 | 3.01 | JUC18003990.hg.1 | RTTN |
| TC18000567.hg.1 | 2.49 | JUC18003974.hg.1 | RTTN |
| TC18000567.hg.1 | 2.43 | JUC18003985.hg.1 | RTTN |
| TC18000567.hg.1 | 2.03 | JUC18003999.hg.1 | RTTN |
| TC18000567.hg.1 | 2 | PSR18005929.hg.1 | RTTN |
| TC18000567.hg.1 | -2.02 | PSR18005928.hg.1 | RTTN |
| TC18000567.hg.1 | -2.31 | JUC18003978.hg.1 | RTTN |
| TC18000567.hg.1 | -2.8 | JUC18003983.hg.1 | RTTN |
| TC05001752.hg.1 | 7.06 | JUC05012198.hg.1 | FBN2 |
| TC05001752.hg.1 | 6.96 | JUC05012163.hg.1 | FBN2 |
| TC05001752.hg.1 | 6.38 | JUC05012157.hg.1 | FBN2 |
| TC05001752.hg.1 | 5.34 | JUC05012214.hg.1 | FBN2 |
| TC05001752.hg.1 | 4.87 | JUC05012181.hg.1 | FBN2 |
| TC05001752.hg.1 | 4.48 | JUC05012170.hg.1 | FBN2 |
| TC05001752.hg.1 | 3.81 | JUC05012171.hg.1 | FBN2 |
| TC05001752.hg.1 | 3.52 | PSR05023556.hg.1 | FBN2 |
| TC05001752.hg.1 | 3.44 | PSR05023548.hg.1 | FBN2 |
| TC05001752.hg.1 | 3.43 | JUC05012164.hg.1 | FBN2 |
| TC05001752.hg.1 | 3.19 | PSR05023526.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.9 | PSR05023539.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.9 | JUC05012165.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.81 | PSR05023549.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.69 | JUC05012158.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.67 | PSR05023551.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.64 | PSR05023518.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.61 | PSR05023547.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.57 | JUC05012189.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.5 | PSR05023501.hg.1 | FBN2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC05001752.hg.1 | 2.5 | PSR05023550.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.4 | JUC05012229.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.36 | PSR05023529.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.21 | JUC05012207.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.2 | JUC05012166.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.18 | PSR05023546.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.17 | JUC05012196.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.14 | JUC05012179.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.1 | JUC05012227.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.09 | PSR05023522.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.07 | JUC05012183.hg.1 | FBN2 |
| TC05001752.hg.1 | 2.06 | PSR05023542.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.02 | PSR05023475.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.19 | PSR05023493.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.27 | JUC05012175.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.28 | JUC05012212.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.29 | JUC05012204.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.3 | JUC05012225.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.32 | PSR05023510.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.38 | JUC05012186.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.8 | JUC05012221.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.84 | JUC05012184.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.91 | PSR05023545.hg.1 | FBN2 |
| TC05001752.hg.1 | -2.94 | PSR05023525.hg.1 | FBN2 |
| TC05001752.hg.1 | -3.3 | JUC05012202.hg.1 | FBN2 |
| TC05001752.hg.1 | -3.65 | PSR05023534.hg.1 | FBN2 |
| TC05001752.hg.1 | -3.71 | JUC05012203.hg.1 | FBN2 |
| TC05001752.hg.1 | -4.22 | JUC05012156.hg.1 | FBN2 |
| TC09001282.hg.1 | 7.06 | JUC09008605.hg.1 | KIF27 |
| TC09001282.hg.1 | 3.1 | JUC09008602.hg.1 | KIF27 |
| TC09001282.hg.1 | 2.77 | PSR09015980.hg.1 | KIF27 |
| TC09001282.hg.1 | 2.31 | PSR09016001.hg.1 | KIF27 |
| TC09001282.hg.1 | 2.12 | JUC09008598.hg.1 | KIF27 |
| TC09001282.hg.1 | 2 | JUC09008594.hg.1 | KIF27 |
| TC09001282.hg.1 | -2.79 | JUC09008592.hg.1 | KIF27 |
| TC10000486.hg.1 | 7.04 | PSR10005813.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 6.79 | JUC10003414.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 6.54 | JUC10003419.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 5.58 | PSR10005811.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 4.48 | PSR10005823.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 3.81 | PSR10005810.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 3.72 | PSR10005819.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 3.71 | PSR10005826.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 3.04 | PSR10005816.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 2.86 | PSR10005822.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 2.83 | PSR10005832.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 2.78 | JUC10003409.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 2.68 | PSR10005821.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | 2.18 | JUC10003417.hg.1 | ZNF503-AS1 |
| TC10000486.hg.1 | -2.99 | JUC10003423.hg.1 | ZNF503-AS1 |
| TC01002153.hg.1 | 7.03 | JUC01017818.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 5.57 | JUC01017827.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 4.97 | JUC01017791.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 4.79 | JUC01017792.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 4.68 | PSR01033181.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 4.5 | JUC01017820.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 4.23 | JUC01017811.hg.1 | PLEKHG5, TF |
| TC01002153.hg.1 | 4.05 | PSR01033184.hg.1 | PLEKHG5, TF |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01002153.hg.1 | 4 | PSR01033183.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.89 | PSR01033187.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.79 | PSR01033217.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.53 | JUC01017816.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.42 | JUC01017823.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.32 | JUC01017793.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.13 | PSR01033218.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 3.02 | PSR01033233.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.99 | PSR01033207.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.85 | JUC01017803.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.81 | PSR01033189.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.81 | PSR01033225.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.68 | PSR01033238.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.66 | JUC01017821.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.62 | PSR01033179.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.62 | PSR01033226.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.56 | PSR01033177.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.55 | PSR01033212.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.54 | PSR01033175.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.53 | PSR01033234.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.51 | JUC01017813.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.5 | PSR01033231.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.44 | PSR01033195.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.42 | PSR01033222.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.41 | JUC01017831.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.35 | PSR01033220.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.27 | PSR01033208.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.27 | PSR01033228.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.26 | PSR01033192.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.23 | PSR01033230.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.18 | PSR01033172.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.16 | JUC01017810.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.12 | PSR01033251.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | 2.05 | PSR01033215.hg.1 | PLEKHG5, TI |
| TC01002153.hg.1 | -2.18 | JUC01017790.hg.1 | PLEKHG5, TI |
| TC01000904.hg.1 | 7.02 | JUC01007530.hg.1 | VCAM1 |
| TC01000904.hg.1 | 5.39 | PSR01014244.hg.1 | VCAM1 |
| TC01000904.hg.1 | 5.2 | JUC01007529.hg.1 | VCAM1 |
| TC01000904.hg.1 | 5.07 | JUC01007534.hg.1 | VCAM1 |
| TC01000904.hg.1 | 2.84 | PSR01014256.hg.1 | VCAM1 |
| TC01000904.hg.1 | 2.84 | JUC01007533.hg.1 | VCAM1 |
| TC01000904.hg.1 | 2.41 | JUC01007531.hg.1 | VCAM1 |
| TC01001557.hg.1 | 7.02 | JUC01012726.hg.1 | TOR1AIP1 |
| TC01001557.hg.1 | 2.3 | PSR01024024.hg.1 | TOR1AIP1 |
| TC01001557.hg.1 | -2.46 | PSR01024030.hg.1 | TOR1AIP1 |
| TC01001557.hg.1 | -2.5 | PSR01024037.hg.1 | TOR1AIP1 |
| TC01001557.hg.1 | -4.62 | JUC01012727.hg.1 | TOR1AIP1 |
| TC0X001278.hg.1 | 7.02 | PSR0X017319.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | 5.99 | PSR0X017318.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | 5.15 | JUC0X008797.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | 3.45 | PSR0X017314.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | 2.06 | JUC0X008802.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | -2.03 | JUC0X008803.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | -2.06 | JUC0X008799.hg.1 | CHRDL1 |
| TC0X001278.hg.1 | -2.23 | JUC0X008800.hg.1 | CHRDL1 |
| TC11000245.hg.1 | 7.01 | JUC11001617.hg.1 | SPTY2D1-AS |
| TC11000245.hg.1 | 3.18 | PSR11003257.hg.1 | SPTY2D1-AS |
| TC11000245.hg.1 | 2.35 | PSR11003252.hg.1 | SPTY2D1-AS |

| | | | |
|-----------------|-------|------------------|-------------|
| TC11000245.hg.1 | 2.28 | PSR11003258.hg.1 | SPTY2D1-AS |
| TC17000311.hg.1 | 7.01 | JUC17002134.hg.1 | KSR1 |
| TC17000311.hg.1 | 6.77 | JUC17002130.hg.1 | KSR1 |
| TC17000311.hg.1 | 3.82 | JUC17002109.hg.1 | KSR1 |
| TC17000311.hg.1 | 3.36 | JUC17002115.hg.1 | KSR1 |
| TC17000311.hg.1 | 2.42 | PSR17003731.hg.1 | KSR1 |
| TC17000311.hg.1 | 2.36 | JUC17002123.hg.1 | KSR1 |
| TC17000311.hg.1 | 2.14 | PSR17003725.hg.1 | KSR1 |
| TC17000311.hg.1 | -2.04 | JUC17002128.hg.1 | KSR1 |
| TC17000311.hg.1 | -2.79 | JUC17002131.hg.1 | KSR1 |
| TC08000453.hg.1 | 7 | JUC08003156.hg.1 | C8orf34 |
| TC08000453.hg.1 | 3.84 | JUC08003151.hg.1 | C8orf34 |
| TC08000453.hg.1 | 3.58 | PSR08006438.hg.1 | C8orf34 |
| TC08000453.hg.1 | 3.38 | JUC08003158.hg.1 | C8orf34 |
| TC08000453.hg.1 | 3.37 | JUC08003152.hg.1 | C8orf34 |
| TC08000453.hg.1 | 3.2 | PSR08006449.hg.1 | C8orf34 |
| TC08000453.hg.1 | 2.85 | PSR08006441.hg.1 | C8orf34 |
| TC08000453.hg.1 | 2.32 | PSR08006445.hg.1 | C8orf34 |
| TC08000453.hg.1 | 2.3 | JUC08003162.hg.1 | C8orf34 |
| TC08000453.hg.1 | 2.06 | PSR08006444.hg.1 | C8orf34 |
| TC08000453.hg.1 | -2.91 | JUC08003153.hg.1 | C8orf34 |
| TC22000129.hg.1 | 7 | JUC22000666.hg.1 | BCR |
| TC22000129.hg.1 | 2.4 | JUC22000686.hg.1 | BCR |
| TC22000129.hg.1 | 2.09 | JUC22000694.hg.1 | BCR |
| TC22000129.hg.1 | 2.04 | PSR22002285.hg.1 | BCR |
| TC11001174.hg.1 | 6.98 | JUC11008040.hg.1 | ST3GAL4 |
| TC11001174.hg.1 | -2 | PSR11014846.hg.1 | ST3GAL4 |
| TC11001174.hg.1 | -2.24 | PSR11014847.hg.1 | ST3GAL4 |
| TC20000481.hg.1 | 6.98 | JUC20003543.hg.1 | CDH4 |
| TC20000481.hg.1 | 2.12 | PSR20006696.hg.1 | CDH4 |
| TC20000481.hg.1 | -2.85 | JUC20003539.hg.1 | CDH4 |
| TC02000235.hg.1 | 6.97 | JUC02001842.hg.1 | C2orf56 |
| TC02000235.hg.1 | 3.52 | JUC02001830.hg.1 | C2orf56 |
| TC02000235.hg.1 | 2.18 | JUC02001834.hg.1 | C2orf56 |
| TC02000235.hg.1 | 2.15 | PSR02003524.hg.1 | C2orf56 |
| TC02000235.hg.1 | 2.07 | PSR02003497.hg.1 | C2orf56 |
| TC02000235.hg.1 | -2.02 | PSR02003508.hg.1 | C2orf56 |
| TC02000235.hg.1 | -2.64 | JUC02001848.hg.1 | C2orf56 |
| TC02000235.hg.1 | -3.13 | JUC02001832.hg.1 | C2orf56 |
| TC13000790.hg.1 | 6.97 | PSR13008880.hg.1 | DCT |
| TC13000790.hg.1 | 2.76 | JUC13005209.hg.1 | DCT |
| TC13000790.hg.1 | 2.57 | PSR13008881.hg.1 | DCT |
| TC13000790.hg.1 | 2.33 | PSR13008894.hg.1 | DCT |
| TC13000790.hg.1 | 2.28 | JUC13005210.hg.1 | DCT |
| TC19001471.hg.1 | 6.97 | JUC19011510.hg.1 | ZNF529 |
| TC19001471.hg.1 | 2.82 | JUC19011506.hg.1 | ZNF529 |
| TC19001471.hg.1 | 2.55 | JUC19011508.hg.1 | ZNF529 |
| TC19001471.hg.1 | 2.22 | PSR19019996.hg.1 | ZNF529 |
| TC19001471.hg.1 | 2.15 | PSR19020006.hg.1 | ZNF529 |
| TC12000076.hg.1 | 6.95 | PSR12000741.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 5.67 | JUC12000421.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 4.11 | PSR12000750.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 3.9 | JUC12000427.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 3.73 | PSR12000751.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 3.34 | PSR12000763.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 3.14 | PSR12000749.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 2.97 | PSR12000755.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 2.77 | JUC12000419.hg.1 | CD9, LOC100 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12000076.hg.1 | 2.39 | JUC12000429.hg.1 | CD9, LOC100 |
| TC12000076.hg.1 | 2.11 | PSR12000748.hg.1 | CD9, LOC100 |
| TC17000220.hg.1 | 6.94 | PSR17003122.hg.1 | TRIM16L |
| TC17000220.hg.1 | 6.58 | JUC17001777.hg.1 | TRIM16L |
| TC17000220.hg.1 | 6.55 | JUC17001784.hg.1 | TRIM16L |
| TC17000220.hg.1 | 5.89 | PSR17003117.hg.1 | TRIM16L |
| TC17000220.hg.1 | 5.56 | JUC17001770.hg.1 | TRIM16L |
| TC17000220.hg.1 | 5.31 | JUC17001781.hg.1 | TRIM16L |
| TC17000220.hg.1 | 5.22 | JUC17001771.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.96 | JUC17001775.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.78 | PSR17003120.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.54 | PSR17003119.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.51 | PSR17003121.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.45 | PSR17003147.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.42 | PSR17003126.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.39 | PSR17003123.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.33 | JUC17001780.hg.1 | TRIM16L |
| TC17000220.hg.1 | 4.25 | JUC17001787.hg.1 | TRIM16L |
| TC17000220.hg.1 | 2.81 | PSR17003124.hg.1 | TRIM16L |
| TC17000220.hg.1 | 2.54 | PSR17003150.hg.1 | TRIM16L |
| TC17000220.hg.1 | 2.54 | PSR17003151.hg.1 | TRIM16L |
| TC17000220.hg.1 | 2.36 | PSR17003132.hg.1 | TRIM16L |
| TC17000220.hg.1 | 2.26 | JUC17001776.hg.1 | TRIM16L |
| TC17000220.hg.1 | -2.28 | PSR17003133.hg.1 | TRIM16L |
| TC17000220.hg.1 | -2.28 | PSR17003140.hg.1 | TRIM16L |
| TC06002124.hg.1 | 6.93 | JUC06013213.hg.1 | SLC2A12 |
| TC06002124.hg.1 | 3.32 | PSR06026678.hg.1 | SLC2A12 |
| TC06002124.hg.1 | 2.15 | PSR06026679.hg.1 | SLC2A12 |
| TC11000148.hg.1 | 6.91 | JUC11000910.hg.1 | SYT9 |
| TC11000148.hg.1 | 2.66 | PSR11002086.hg.1 | SYT9 |
| TC11000148.hg.1 | 2.54 | JUC11000913.hg.1 | SYT9 |
| TC11000148.hg.1 | 2.21 | PSR11002081.hg.1 | SYT9 |
| TC11000148.hg.1 | -3.19 | JUC11000912.hg.1 | SYT9 |
| TC05000004.hg.1 | 6.9 | JUC05000027.hg.1 | SDHA |
| TC05000004.hg.1 | 3.39 | JUC05000036.hg.1 | SDHA |
| TC05000004.hg.1 | 2.76 | JUC05000035.hg.1 | SDHA |
| TC05000004.hg.1 | 2.5 | PSR05000087.hg.1 | SDHA |
| TC05000004.hg.1 | 2.42 | PSR05000086.hg.1 | SDHA |
| TC05000004.hg.1 | 2.32 | JUC05000051.hg.1 | SDHA |
| TC05000004.hg.1 | 2.13 | PSR05000053.hg.1 | SDHA |
| TC05000004.hg.1 | 2.12 | JUC05000034.hg.1 | SDHA |
| TC05000004.hg.1 | 2.09 | JUC05000023.hg.1 | SDHA |
| TC08000778.hg.1 | 6.9 | JUC08005388.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 6.84 | JUC08005375.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 6.36 | JUC08005377.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 4.14 | PSR08010416.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 4.05 | PSR08010420.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 3.33 | PSR08010445.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 3.3 | PSR08010415.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 3.21 | PSR08010440.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 3.04 | PSR08010450.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.78 | PSR08010417.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.74 | JUC08005383.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.73 | PSR08010454.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.69 | PSR08010439.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.68 | PSR08010424.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.52 | PSR08010429.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.48 | PSR08010458.hg.1 | KHDRBS3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC08000778.hg.1 | 2.41 | JUC08005390.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.39 | PSR08010418.hg.1 | KHDRBS3 |
| TC08000778.hg.1 | 2.37 | JUC08005378.hg.1 | KHDRBS3 |
| TC12000357.hg.1 | 6.88 | JUC12002424.hg.1 | CACNB3 |
| TC12000357.hg.1 | 2.74 | PSR12004431.hg.1 | CACNB3 |
| TC12000357.hg.1 | -2.06 | JUC12002422.hg.1 | CACNB3 |
| TC09002907.hg.1 | 6.86 | PSR09006630.hg.1 | ORM1 |
| TC09002907.hg.1 | 3.21 | PSR09006631.hg.1 | ORM1 |
| TC09002907.hg.1 | 2.76 | PSR09006628.hg.1 | ORM1 |
| TC09002907.hg.1 | 2.32 | JUC09015877.hg.1 | ORM1 |
| TC09002907.hg.1 | -2 | PSR09006624.hg.1 | ORM1 |
| TC09002907.hg.1 | -2.52 | PSR09006633.hg.1 | ORM1 |
| TC09002907.hg.1 | -2.65 | PSR09006637.hg.1 | ORM1 |
| TC01000755.hg.1 | 6.84 | JUC01006326.hg.1 | SRSF11 |
| TC01000755.hg.1 | 3.28 | JUC01006313.hg.1 | SRSF11 |
| TC01000755.hg.1 | 3.08 | JUC01006315.hg.1 | SRSF11 |
| TC01000755.hg.1 | 2.46 | PSR01012085.hg.1 | SRSF11 |
| TC01000755.hg.1 | 2.27 | JUC01006335.hg.1 | SRSF11 |
| TC01000755.hg.1 | -2.24 | JUC01006314.hg.1 | SRSF11 |
| TC01000755.hg.1 | -2.28 | JUC01006328.hg.1 | SRSF11 |
| TC01003476.hg.1 | 6.84 | JUC01028176.hg.1 | ILDR2 |
| TC01003476.hg.1 | 3.27 | PSR01054065.hg.1 | ILDR2 |
| TC01003476.hg.1 | -2.07 | JUC01028167.hg.1 | ILDR2 |
| TC09001515.hg.1 | 6.84 | PSR09018975.hg.1 | TNFSF15 |
| TC09001515.hg.1 | 4.63 | PSR09018967.hg.1 | TNFSF15 |
| TC09001515.hg.1 | 3.59 | PSR09018973.hg.1 | TNFSF15 |
| TC09001515.hg.1 | 2.34 | PSR09018971.hg.1 | TNFSF15 |
| TC09001515.hg.1 | 2.28 | PSR09018969.hg.1 | TNFSF15 |
| TC09001515.hg.1 | 2.17 | PSR09018974.hg.1 | TNFSF15 |
| TC09001515.hg.1 | -2.53 | PSR09018970.hg.1 | TNFSF15 |
| TC09001515.hg.1 | -2.64 | JUC09010268.hg.1 | TNFSF15 |
| TC09001515.hg.1 | -3.43 | PSR09018972.hg.1 | TNFSF15 |
| TC09001515.hg.1 | -5.01 | JUC09010266.hg.1 | TNFSF15 |
| TC09001515.hg.1 | -5.49 | JUC09010267.hg.1 | TNFSF15 |
| TC20000245.hg.1 | 6.83 | JUC20001792.hg.1 | ACSS2 |
| TC20000245.hg.1 | 3.3 | JUC20001760.hg.1 | ACSS2 |
| TC20000245.hg.1 | 3.11 | JUC20001775.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.94 | JUC20001798.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.93 | JUC20001797.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.89 | JUC20001774.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.47 | JUC20001767.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.44 | JUC20001768.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.31 | PSR20003183.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.2 | PSR20003180.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.15 | PSR20003148.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.11 | PSR20003150.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.07 | PSR20003199.hg.1 | ACSS2 |
| TC20000245.hg.1 | 2.06 | PSR20003169.hg.1 | ACSS2 |
| TC20000245.hg.1 | -2.17 | JUC20001793.hg.1 | ACSS2 |
| TC20000245.hg.1 | -2.91 | JUC20001773.hg.1 | ACSS2 |
| TC01000217.hg.1 | 6.8 | JUC01001941.hg.1 | CROCC |
| TC01000217.hg.1 | 2.67 | PSR01003527.hg.1 | CROCC |
| TC01000217.hg.1 | 2.11 | JUC01001933.hg.1 | CROCC |
| TC01000217.hg.1 | 2.08 | PSR01003582.hg.1 | CROCC |
| TC01000217.hg.1 | -2.07 | JUC01001932.hg.1 | CROCC |
| TC01000217.hg.1 | -2.15 | JUC01001920.hg.1 | CROCC |
| TC01000217.hg.1 | -2.43 | PSR01003541.hg.1 | CROCC |
| TC01000217.hg.1 | -2.74 | JUC01001921.hg.1 | CROCC |

| | | | |
|-----------------|-------|------------------|-------------|
| TC04000291.hg.1 | 6.79 | JUC04002095.hg.1 | DCUN1D4 |
| TC04000291.hg.1 | 3.73 | PSR04004186.hg.1 | DCUN1D4 |
| TC04000291.hg.1 | 3.14 | JUC04002089.hg.1 | DCUN1D4 |
| TC04000291.hg.1 | -2.45 | JUC04002075.hg.1 | DCUN1D4 |
| TC04000291.hg.1 | -2.52 | PSR04004194.hg.1 | DCUN1D4 |
| TC04000291.hg.1 | -2.55 | PSR04004211.hg.1 | DCUN1D4 |
| TC04000291.hg.1 | -3.14 | PSR04004212.hg.1 | DCUN1D4 |
| TC06000350.hg.1 | 6.79 | PSR06003120.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 4.97 | PSR06003238.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.79 | JUC06001373.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.39 | JUC06001411.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.32 | PSR06003178.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.25 | PSR06003151.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.22 | PSR06003128.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.14 | JUC06001398.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.11 | JUC06001386.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.08 | JUC06001363.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.05 | PSR06003191.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.03 | PSR06003207.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3.02 | PSR06003112.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 3 | JUC06001382.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.94 | JUC06001393.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.89 | PSR06003099.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.84 | JUC06001415.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.8 | JUC06001405.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.77 | JUC06001379.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.75 | PSR06003226.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.75 | JUC06001377.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.73 | PSR06003125.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.71 | PSR06003102.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.67 | PSR06003097.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.67 | PSR06003164.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.67 | JUC06001412.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.66 | JUC06001390.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.65 | PSR06003158.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.64 | PSR06003122.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.64 | PSR06003126.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.57 | JUC06001385.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.55 | JUC06001366.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.53 | JUC06001387.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.49 | PSR06003193.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.48 | PSR06003150.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.48 | JUC06001374.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.44 | PSR06003149.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.43 | PSR06003105.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.43 | PSR06003142.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.43 | PSR06003144.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.42 | JUC06001372.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.41 | PSR06003248.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.39 | PSR06003134.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.39 | PSR06003140.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.39 | JUC06001408.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.36 | JUC06001370.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.34 | PSR06003179.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.31 | PSR06003172.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.3 | JUC06001410.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.29 | PSR06003113.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.13 | JUC06001375.hg.1 | DDR1, MIR46 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06000350.hg.1 | 2.1 | PSR06003098.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.07 | PSR06003135.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.06 | PSR06003115.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.06 | PSR06003124.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.06 | PSR06003194.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.04 | JUC06001414.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.03 | PSR06003127.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2.03 | PSR06003146.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | 2 | PSR06003243.hg.1 | DDR1, MIR46 |
| TC06000350.hg.1 | -2.41 | PSR06003212.hg.1 | DDR1, MIR46 |
| TC09000663.hg.1 | 6.74 | JUC09004301.hg.1 | GARNL3 |
| TC09000663.hg.1 | 6.72 | PSR09007701.hg.1 | GARNL3 |
| TC09000663.hg.1 | 6.5 | PSR09007780.hg.1 | GARNL3 |
| TC09000663.hg.1 | 6.05 | PSR09007710.hg.1 | GARNL3 |
| TC09000663.hg.1 | 6.05 | JUC09004298.hg.1 | GARNL3 |
| TC09000663.hg.1 | 6.04 | JUC09004321.hg.1 | GARNL3 |
| TC09000663.hg.1 | 6.03 | JUC09004322.hg.1 | GARNL3 |
| TC09000663.hg.1 | 5.6 | JUC09004297.hg.1 | GARNL3 |
| TC09000663.hg.1 | 5.56 | PSR09007722.hg.1 | GARNL3 |
| TC09000663.hg.1 | 5.51 | PSR09007720.hg.1 | GARNL3 |
| TC09000663.hg.1 | 5.28 | JUC09004326.hg.1 | GARNL3 |
| TC09000663.hg.1 | 5.11 | PSR09007774.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.9 | JUC09004315.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.56 | PSR09007778.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.5 | PSR09007703.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.5 | PSR09007782.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.23 | PSR09007755.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.2 | PSR09007714.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.16 | PSR09007779.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.08 | PSR09007730.hg.1 | GARNL3 |
| TC09000663.hg.1 | 4.06 | PSR09007773.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.91 | PSR09007702.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.91 | PSR09007776.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.85 | PSR09007747.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.82 | PSR09007769.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.82 | JUC09004306.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.72 | PSR09007751.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.66 | PSR09007767.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.58 | PSR09007752.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.55 | PSR09007761.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.48 | JUC09004314.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.44 | PSR09007765.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.41 | JUC09004329.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.37 | PSR09007781.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.35 | JUC09004325.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.28 | PSR09007715.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.23 | PSR09007708.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.17 | PSR09007743.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.16 | PSR09007740.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.1 | PSR09007742.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3.01 | PSR09007766.hg.1 | GARNL3 |
| TC09000663.hg.1 | 3 | PSR09007754.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.95 | PSR09007711.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.95 | PSR09007768.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.81 | PSR09007771.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.81 | JUC09004290.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.68 | PSR09007729.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.65 | PSR09007739.hg.1 | GARNL3 |

| | | | |
|-----------------|-------|------------------|--------|
| TC09000663.hg.1 | 2.65 | PSR09007775.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.62 | JUC09004313.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.52 | PSR09007744.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.49 | PSR09007759.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.49 | JUC09004323.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.48 | JUC09004319.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.39 | PSR09007712.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.36 | JUC09004337.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.35 | JUC09004305.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.3 | JUC09004304.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.28 | PSR09007777.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.26 | PSR09007764.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.07 | PSR09007749.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2.02 | PSR09007724.hg.1 | GARNL3 |
| TC09000663.hg.1 | 2 | JUC09004317.hg.1 | GARNL3 |
| TC01001851.hg.1 | 6.73 | JUC01015595.hg.1 | DNAH14 |
| TC01001851.hg.1 | 3.96 | JUC01015507.hg.1 | DNAH14 |
| TC01001851.hg.1 | 3.94 | JUC01015557.hg.1 | DNAH14 |
| TC01001851.hg.1 | 3.11 | JUC01015499.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.9 | JUC01015496.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.64 | PSR01028846.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.5 | PSR01028803.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.44 | PSR01028850.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.39 | JUC01015484.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.33 | PSR01028776.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.3 | JUC01015488.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.28 | JUC01015585.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.25 | JUC01015494.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.17 | JUC01015570.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.05 | PSR01028820.hg.1 | DNAH14 |
| TC01001851.hg.1 | 2.02 | JUC01015538.hg.1 | DNAH14 |
| TC08001175.hg.1 | 6.73 | JUC08007764.hg.1 | PLAT |
| TC08001175.hg.1 | 5.03 | JUC08007770.hg.1 | PLAT |
| TC08001175.hg.1 | 4.37 | PSR08015132.hg.1 | PLAT |
| TC08001175.hg.1 | 2.39 | JUC08007758.hg.1 | PLAT |
| TC08001175.hg.1 | 2.02 | PSR08015125.hg.1 | PLAT |
| TC08001175.hg.1 | 2.02 | PSR08015126.hg.1 | PLAT |
| TC08001175.hg.1 | -2.48 | PSR08015136.hg.1 | PLAT |
| TC08001175.hg.1 | -2.6 | PSR08015134.hg.1 | PLAT |
| TC08001175.hg.1 | -2.65 | PSR08015147.hg.1 | PLAT |
| TC08001175.hg.1 | -2.88 | JUC08007765.hg.1 | PLAT |
| TC08001175.hg.1 | -2.91 | JUC08007771.hg.1 | PLAT |
| TC08001175.hg.1 | -3.04 | JUC08007768.hg.1 | PLAT |
| TC08001175.hg.1 | -3.21 | PSR08015151.hg.1 | PLAT |
| TC08001175.hg.1 | -3.63 | PSR08015144.hg.1 | PLAT |
| TC08001175.hg.1 | -3.82 | PSR08015146.hg.1 | PLAT |
| TC08001175.hg.1 | -4.05 | JUC08007749.hg.1 | PLAT |
| TC08001175.hg.1 | -4.36 | PSR08015161.hg.1 | PLAT |
| TC08001175.hg.1 | -4.49 | PSR08015160.hg.1 | PLAT |
| TC08001175.hg.1 | -4.99 | PSR08015141.hg.1 | PLAT |
| TC08001175.hg.1 | -5.03 | PSR08015140.hg.1 | PLAT |
| TC08001175.hg.1 | -5.13 | PSR08015135.hg.1 | PLAT |
| TC08001175.hg.1 | -5.48 | JUC08007763.hg.1 | PLAT |
| TC08001175.hg.1 | -5.67 | JUC08007754.hg.1 | PLAT |
| TC08001175.hg.1 | -6.78 | JUC08007761.hg.1 | PLAT |
| TC08001175.hg.1 | -6.89 | PSR08015150.hg.1 | PLAT |
| TC08001175.hg.1 | -6.92 | PSR08015131.hg.1 | PLAT |
| TC08001175.hg.1 | -6.93 | PSR08015155.hg.1 | PLAT |

| | | | |
|------------------|-------|-------------------|----------|
| TC08001175.hg.1 | -7.84 | PSR08015156.hg.1 | PLAT |
| TC08001175.hg.1 | -9.95 | JUC08007759.hg.1 | PLAT |
| TC17000246.hg.1 | 6.72 | PSR17003422.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | 6.33 | PSR17003424.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | 6.33 | PSR17003426.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | 5.95 | PSR17003421.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | 2.87 | PSR17003434.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | 2.75 | PSR17003428.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | -2.57 | PSR17003441.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | -2.88 | JUC17001972.hg.1 | ALDH3A2 |
| TC17000246.hg.1 | -3.18 | JUC17001965.hg.1 | ALDH3A2 |
| TC6_qbl_hap6000 | 6.71 | JUC6_qbl_hap60009 | HLA-C |
| TC6_qbl_hap6000 | 3.45 | PSR6_qbl_hap60026 | HLA-C |
| TC6_qbl_hap6000 | 2.91 | JUC6_qbl_hap60010 | HLA-C |
| TC6_qbl_hap6000 | 2.89 | JUC6_qbl_hap60009 | HLA-C |
| TC6_qbl_hap6000 | 2.17 | PSR6_qbl_hap60026 | HLA-C |
| TC6_qbl_hap6000 | 2.16 | PSR6_qbl_hap60026 | HLA-C |
| TC6_qbl_hap6000 | -2.39 | JUC6_qbl_hap60009 | HLA-C |
| TC6_ssto_hap7000 | 6.71 | JUC6_ssto_hap7001 | HLA-C |
| TC6_ssto_hap7000 | 3.45 | PSR6_ssto_hap7002 | HLA-C |
| TC6_ssto_hap7000 | 2.89 | JUC6_ssto_hap7001 | HLA-C |
| TC6_ssto_hap7000 | 2.17 | PSR6_ssto_hap7002 | HLA-C |
| TC6_ssto_hap7000 | 2.16 | PSR6_ssto_hap7002 | HLA-C |
| TC6_ssto_hap7000 | -2.39 | JUC6_ssto_hap7001 | HLA-C |
| TC10002948.hg.1 | 6.68 | JUC10017333.hg.1 | AS3MT |
| TC10002948.hg.1 | 2.15 | PSR10009125.hg.1 | AS3MT |
| TC10002948.hg.1 | 2.04 | PSR10009138.hg.1 | AS3MT |
| TC16001244.hg.1 | 6.68 | JUC16009717.hg.1 | HYDIN |
| TC16001244.hg.1 | 6.06 | JUC16009796.hg.1 | HYDIN |
| TC16001244.hg.1 | 3.6 | JUC16009748.hg.1 | HYDIN |
| TC16001244.hg.1 | 3.21 | JUC16009736.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.93 | JUC16009747.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.55 | JUC16009740.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.42 | JUC16009789.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.22 | PSR16017189.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.22 | JUC16009725.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.21 | JUC16009750.hg.1 | HYDIN |
| TC16001244.hg.1 | 2.09 | JUC16009726.hg.1 | HYDIN |
| TC16001244.hg.1 | -2.26 | JUC16009795.hg.1 | HYDIN |
| TC16001244.hg.1 | -2.93 | JUC16009710.hg.1 | HYDIN |
| TC16001244.hg.1 | -3.07 | JUC16009768.hg.1 | HYDIN |
| TC17001479.hg.1 | 6.68 | JUC17011095.hg.1 | KRTAP1-5 |
| TC17001479.hg.1 | 4.81 | PSR17019665.hg.1 | KRTAP1-5 |
| TC17001479.hg.1 | 3.82 | PSR17019666.hg.1 | KRTAP1-5 |
| TC17001479.hg.1 | 3.62 | PSR17019661.hg.1 | KRTAP1-5 |
| TC17001479.hg.1 | 2.31 | PSR17019668.hg.1 | KRTAP1-5 |
| TC17001479.hg.1 | -2.31 | PSR17019664.hg.1 | KRTAP1-5 |
| TC17001479.hg.1 | -3.57 | PSR17019662.hg.1 | KRTAP1-5 |
| TC13000049.hg.1 | 6.67 | JUC13000185.hg.1 | TNFRSF19 |
| TC13000049.hg.1 | -2.07 | PSR13000342.hg.1 | TNFRSF19 |
| TC13000049.hg.1 | -2.17 | PSR13000349.hg.1 | TNFRSF19 |
| TC13000049.hg.1 | -2.2 | JUC13000189.hg.1 | TNFRSF19 |
| TC13000049.hg.1 | -2.44 | PSR13000350.hg.1 | TNFRSF19 |
| TC03000966.hg.1 | 6.65 | PSR03016756.hg.1 | SOX2-OT |
| TC03000966.hg.1 | 2.16 | JUC03008507.hg.1 | SOX2-OT |
| TC03000966.hg.1 | 2.09 | JUC03008519.hg.1 | SOX2-OT |
| TC03000966.hg.1 | 2.05 | PSR03016757.hg.1 | SOX2-OT |
| TC02005003.hg.1 | 6.64 | JUC02032002.hg.1 | PHOSPHO2 |

| | | | |
|-----------------|-------|------------------|------------|
| TC02005003.hg.1 | 3.19 | JUC02031999.hg.1 | PHOSPHO2 |
| TC02005003.hg.1 | 2.83 | PSR02014741.hg.1 | PHOSPHO2 |
| TC02005003.hg.1 | 2.06 | PSR02014753.hg.1 | PHOSPHO2 |
| TC22001468.hg.1 | 6.64 | PSR22005835.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 6.53 | PSR22005843.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 6.29 | PSR22005842.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 6.26 | PSR22005827.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 5.81 | PSR22005838.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 5.04 | PSR22005844.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 4.76 | PSR22005833.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 4.46 | PSR22005830.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 3.95 | PSR22005848.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 3.57 | JUC22009310.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 3.25 | PSR22005837.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 2.96 | PSR22005847.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 2.56 | PSR22005839.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 2.22 | JUC22009309.hg.1 | APOBEC3G |
| TC22001468.hg.1 | 2.04 | PSR22005831.hg.1 | APOBEC3G |
| TC22001468.hg.1 | -2.05 | PSR22005840.hg.1 | APOBEC3G |
| TC22001468.hg.1 | -2.42 | JUC22009313.hg.1 | APOBEC3G |
| TC15001730.hg.1 | 6.63 | PSR15016911.hg.1 | STARD5 |
| TC15001730.hg.1 | 4.22 | PSR15016909.hg.1 | STARD5 |
| TC15001730.hg.1 | 4.06 | PSR15016908.hg.1 | STARD5 |
| TC15001730.hg.1 | 3.48 | PSR15016910.hg.1 | STARD5 |
| TC15001730.hg.1 | 2.65 | PSR15016925.hg.1 | STARD5 |
| TC15001730.hg.1 | 2.59 | PSR15016923.hg.1 | STARD5 |
| TC15001730.hg.1 | 2.54 | PSR15016912.hg.1 | STARD5 |
| TC15001730.hg.1 | 2.21 | PSR15016922.hg.1 | STARD5 |
| TC15001730.hg.1 | -2.23 | JUC15009223.hg.1 | STARD5 |
| TC21000423.hg.1 | 6.63 | PSR21004982.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 6.02 | PSR21004981.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 3.89 | JUC21002535.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 3.68 | JUC21002548.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 2.67 | JUC21002533.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 2.53 | PSR21004983.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 2.23 | PSR21004990.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 2.2 | JUC21002547.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | 2.18 | JUC21002554.hg.1 | RUNX1, LOC |
| TC21000423.hg.1 | -2.69 | JUC21002552.hg.1 | RUNX1, LOC |
| TC02000082.hg.1 | 6.62 | PSR02001045.hg.1 | TRIB2 |
| TC02000082.hg.1 | 4.27 | JUC02000586.hg.1 | TRIB2 |
| TC02000082.hg.1 | 3.86 | JUC02000590.hg.1 | TRIB2 |
| TC02000082.hg.1 | 2.35 | PSR02001048.hg.1 | TRIB2 |
| TC02000082.hg.1 | 2.25 | PSR02001046.hg.1 | TRIB2 |
| TC02004931.hg.1 | 6.62 | JUC02031433.hg.1 | ZNF514 |
| TC02004931.hg.1 | 2.3 | PSR02033774.hg.1 | ZNF514 |
| TC02004931.hg.1 | 2.16 | PSR02033778.hg.1 | ZNF514 |
| TC18000103.hg.1 | 6.61 | JUC18000847.hg.1 | LAMA3 |
| TC18000103.hg.1 | 3.59 | JUC18000786.hg.1 | LAMA3 |
| TC18000103.hg.1 | 3.29 | JUC18000818.hg.1 | LAMA3 |
| TC18000103.hg.1 | 2.98 | JUC18000803.hg.1 | LAMA3 |
| TC18000103.hg.1 | 2.57 | JUC18000864.hg.1 | LAMA3 |
| TC18000103.hg.1 | 2.03 | JUC18000789.hg.1 | LAMA3 |
| TC18000103.hg.1 | 2.03 | JUC18000815.hg.1 | LAMA3 |
| TC18000103.hg.1 | 2.03 | JUC18000835.hg.1 | LAMA3 |
| TC18000103.hg.1 | 2.02 | JUC18000834.hg.1 | LAMA3 |
| TC18000103.hg.1 | -2.02 | JUC18000799.hg.1 | LAMA3 |
| TC18000103.hg.1 | -2.05 | JUC18000819.hg.1 | LAMA3 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC18000103.hg.1 | -2.19 | PSR18001178.hg.1 | LAMA3 |
| TC18000103.hg.1 | -2.28 | PSR18001162.hg.1 | LAMA3 |
| TC18000103.hg.1 | -3.08 | JUC18000839.hg.1 | LAMA3 |
| TC05000408.hg.1 | 6.58 | PSR05005897.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 4.06 | PSR05005896.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 3.5 | JUC05003201.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 3.19 | PSR05005893.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.74 | JUC05003202.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.62 | JUC05003198.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.42 | PSR05005895.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.37 | JUC05003213.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.12 | PSR05005891.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.1 | PSR05005892.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | 2.05 | PSR05005879.hg.1 | ATP6AP1L, F |
| TC05000408.hg.1 | -3.16 | JUC05003212.hg.1 | ATP6AP1L, F |
| TC02001119.hg.1 | 6.57 | JUC02009081.hg.1 | MFSD6 |
| TC02001119.hg.1 | 2.63 | PSR02016942.hg.1 | MFSD6 |
| TC02001119.hg.1 | 2.55 | PSR02016917.hg.1 | MFSD6 |
| TC02001119.hg.1 | 2.48 | PSR02016915.hg.1 | MFSD6 |
| TC02001119.hg.1 | 2.04 | PSR02016946.hg.1 | MFSD6 |
| TC02001119.hg.1 | 2.02 | PSR02016916.hg.1 | MFSD6 |
| TC02001119.hg.1 | 2.02 | PSR02016944.hg.1 | MFSD6 |
| TC02001119.hg.1 | -2.05 | JUC02009078.hg.1 | MFSD6 |
| TC02001119.hg.1 | -2.96 | JUC02009074.hg.1 | MFSD6 |
| TC06002044.hg.1 | 6.56 | JUC06012603.hg.1 | COL10A1 |
| TC06002044.hg.1 | -6.36 | JUC06012602.hg.1 | COL10A1 |
| TC06002044.hg.1 | -7.12 | PSR06025544.hg.1 | COL10A1 |
| TC06002044.hg.1 | -10.31 | PSR06025553.hg.1 | COL10A1 |
| TC06002044.hg.1 | -11.35 | JUC06012600.hg.1 | COL10A1 |
| TC06002044.hg.1 | -16.54 | PSR06025549.hg.1 | COL10A1 |
| TC06002044.hg.1 | -28.24 | PSR06025551.hg.1 | COL10A1 |
| TC03001750.hg.1 | 6.55 | JUC03015833.hg.1 | MGLL |
| TC03001750.hg.1 | 3.75 | JUC03015832.hg.1 | MGLL |
| TC03001750.hg.1 | 3.62 | PSR03031775.hg.1 | MGLL |
| TC03001750.hg.1 | 3.21 | PSR03031784.hg.1 | MGLL |
| TC03001750.hg.1 | 3.07 | JUC03015831.hg.1 | MGLL |
| TC03001750.hg.1 | 2.53 | PSR03031765.hg.1 | MGLL |
| TC03001750.hg.1 | 2.5 | PSR03031785.hg.1 | MGLL |
| TC03001750.hg.1 | 2.44 | PSR03031779.hg.1 | MGLL |
| TC03001750.hg.1 | 2.4 | PSR03031782.hg.1 | MGLL |
| TC03001750.hg.1 | -2.46 | JUC03015825.hg.1 | MGLL |
| TC0X001303.hg.1 | 6.53 | PSR0X017526.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 4.21 | PSR0X017536.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 3.92 | PSR0X017528.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 3.61 | PSR0X017527.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 3.5 | JUC0X008931.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 3.16 | JUC0X008925.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 2.83 | PSR0X017523.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 2.74 | PSR0X017512.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 2.61 | PSR0X017530.hg.1 | KLHL13 |
| TC0X001303.hg.1 | 2.45 | JUC0X008921.hg.1 | KLHL13 |
| TC0X001303.hg.1 | -2.07 | PSR0X017517.hg.1 | KLHL13 |
| TC0X001303.hg.1 | -3.02 | JUC0X008924.hg.1 | KLHL13 |
| TC02002217.hg.1 | 6.52 | JUC02018636.hg.1 | CKAP2L |
| TC02002217.hg.1 | 3.43 | JUC02018633.hg.1 | CKAP2L |
| TC02002217.hg.1 | 2.55 | PSR02036026.hg.1 | CKAP2L |
| TC02002217.hg.1 | -2.23 | JUC02018640.hg.1 | CKAP2L |
| TC11000721.hg.1 | 6.52 | JUC11004882.hg.1 | ANO1 |

| | | | |
|-----------------|-------|------------------|-------|
| TC11000721.hg.1 | 5.16 | JUC11004885.hg.1 | ANO1 |
| TC11000721.hg.1 | 3.85 | JUC11004880.hg.1 | ANO1 |
| TC11000721.hg.1 | 3.64 | JUC11004860.hg.1 | ANO1 |
| TC11000721.hg.1 | 2.71 | JUC11004873.hg.1 | ANO1 |
| TC11000721.hg.1 | 2.24 | PSR11009420.hg.1 | ANO1 |
| TC11000721.hg.1 | 2.21 | PSR11009443.hg.1 | ANO1 |
| TC11000721.hg.1 | 2.02 | JUC11004878.hg.1 | ANO1 |
| TC11000721.hg.1 | -2.23 | PSR11009419.hg.1 | ANO1 |
| TC11000721.hg.1 | -2.83 | PSR11009413.hg.1 | ANO1 |
| TC11000721.hg.1 | -4.55 | JUC11004871.hg.1 | ANO1 |
| TC11000721.hg.1 | -5.58 | JUC11004874.hg.1 | ANO1 |
| TC11000211.hg.1 | 6.51 | JUC11001366.hg.1 | SPON1 |
| TC11000211.hg.1 | 5.31 | PSR11002835.hg.1 | SPON1 |
| TC11000211.hg.1 | 5.12 | PSR11002843.hg.1 | SPON1 |
| TC11000211.hg.1 | 4.79 | JUC11001354.hg.1 | SPON1 |
| TC11000211.hg.1 | 4.06 | PSR11002840.hg.1 | SPON1 |
| TC11000211.hg.1 | 3.58 | JUC11001363.hg.1 | SPON1 |
| TC11000211.hg.1 | 3.54 | JUC11001364.hg.1 | SPON1 |
| TC11000211.hg.1 | 2.75 | PSR11002841.hg.1 | SPON1 |
| TC11000211.hg.1 | 2.57 | PSR11002845.hg.1 | SPON1 |
| TC11000211.hg.1 | 2.44 | PSR11002836.hg.1 | SPON1 |
| TC11000211.hg.1 | -2.22 | JUC11001355.hg.1 | SPON1 |
| TC11000211.hg.1 | -2.35 | JUC11001360.hg.1 | SPON1 |
| TC11000211.hg.1 | -2.57 | JUC11001353.hg.1 | SPON1 |
| TC11000211.hg.1 | -3.57 | PSR11002851.hg.1 | SPON1 |
| TC11000211.hg.1 | -3.67 | PSR11002847.hg.1 | SPON1 |
| TC11000211.hg.1 | -3.7 | JUC11001352.hg.1 | SPON1 |
| TC11000211.hg.1 | -3.91 | PSR11002849.hg.1 | SPON1 |
| TC11000211.hg.1 | -3.92 | PSR11002850.hg.1 | SPON1 |
| TC11000211.hg.1 | -5.05 | PSR11002832.hg.1 | SPON1 |
| TC11000211.hg.1 | -5.76 | PSR11002846.hg.1 | SPON1 |
| TC11000211.hg.1 | -5.92 | JUC11001359.hg.1 | SPON1 |
| TC11000211.hg.1 | -6.43 | PSR11002848.hg.1 | SPON1 |
| TC11000211.hg.1 | -6.84 | PSR11002853.hg.1 | SPON1 |
| TC11000211.hg.1 | -6.84 | JUC11001356.hg.1 | SPON1 |
| TC11000211.hg.1 | -7.14 | PSR11002831.hg.1 | SPON1 |
| TC11000211.hg.1 | -8.08 | JUC11001357.hg.1 | SPON1 |
| TC6_dbb_hap3000 | 6.51 | JUC6_dbb_hap3000 | HLA-C |
| TC6_dbb_hap3000 | 3.35 | PSR6_dbb_hap3002 | HLA-C |
| TC6_dbb_hap3000 | 2.82 | JUC6_dbb_hap3000 | HLA-C |
| TC6_dbb_hap3000 | 2.8 | JUC6_dbb_hap3000 | HLA-C |
| TC6_dbb_hap3000 | 2.21 | PSR6_dbb_hap3002 | HLA-C |
| TC6_dbb_hap3000 | 2.17 | JUC6_dbb_hap3000 | HLA-C |
| TC6_dbb_hap3000 | 2.14 | PSR6_dbb_hap3002 | HLA-C |
| TC6_dbb_hap3000 | -2.17 | JUC6_dbb_hap3001 | HLA-C |
| TC6_dbb_hap3000 | -2.47 | JUC6_dbb_hap3000 | HLA-C |
| TC03001227.hg.1 | 6.48 | JUC03010478.hg.1 | SGOL1 |
| TC03001227.hg.1 | 4.69 | JUC03010481.hg.1 | SGOL1 |
| TC03001227.hg.1 | 2.48 | PSR03021130.hg.1 | SGOL1 |
| TC03001227.hg.1 | 2.42 | JUC03010477.hg.1 | SGOL1 |
| TC03001227.hg.1 | 2.4 | JUC03010480.hg.1 | SGOL1 |
| TC03001227.hg.1 | 2.28 | JUC03010487.hg.1 | SGOL1 |
| TC03001227.hg.1 | 2.04 | PSR03021136.hg.1 | SGOL1 |
| TC01000999.hg.1 | 6.47 | JUC01008315.hg.1 | MAGI3 |
| TC01000999.hg.1 | 3.97 | JUC01008312.hg.1 | MAGI3 |
| TC01000999.hg.1 | 2.63 | PSR01015920.hg.1 | MAGI3 |
| TC01000999.hg.1 | 2.12 | JUC01008323.hg.1 | MAGI3 |
| TC01000999.hg.1 | -2.53 | JUC01008303.hg.1 | MAGI3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01000999.hg.1 | -3.44 | JUC01008307.hg.1 | MAGI3 |
| TC02005026.hg.1 | 6.46 | JUC02032391.hg.1 | ASB3, GPR79 |
| TC02005026.hg.1 | 2.73 | PSR02029421.hg.1 | ASB3, GPR79 |
| TC02005026.hg.1 | 2.7 | PSR02029425.hg.1 | ASB3, GPR79 |
| TC02005026.hg.1 | -2.01 | JUC02032392.hg.1 | ASB3, GPR79 |
| TC03001562.hg.1 | 6.46 | JUC03013999.hg.1 | CNTN3 |
| TC03001562.hg.1 | 2.97 | JUC03013994.hg.1 | CNTN3 |
| TC03001562.hg.1 | 2.26 | PSR03028408.hg.1 | CNTN3 |
| TC03001562.hg.1 | -2 | PSR03028405.hg.1 | CNTN3 |
| TC03001562.hg.1 | -2.04 | PSR03028401.hg.1 | CNTN3 |
| TC03001562.hg.1 | -2.1 | JUC03013988.hg.1 | CNTN3 |
| TC03001562.hg.1 | -2.57 | JUC03013989.hg.1 | CNTN3 |
| TC03001562.hg.1 | -2.66 | JUC03013995.hg.1 | CNTN3 |
| TC03001562.hg.1 | -2.71 | PSR03028400.hg.1 | CNTN3 |
| TC03001562.hg.1 | -3.27 | JUC03013985.hg.1 | CNTN3 |
| TC03001562.hg.1 | -7.82 | JUC03013996.hg.1 | CNTN3 |
| TC08001016.hg.1 | 6.46 | JUC08006694.hg.1 | PSD3 |
| TC08001016.hg.1 | 2.42 | PSR08012927.hg.1 | PSD3 |
| TC08001016.hg.1 | 2.4 | PSR08012926.hg.1 | PSD3 |
| TC08001016.hg.1 | -2 | PSR08012929.hg.1 | PSD3 |
| TC08001016.hg.1 | -2.07 | PSR08012940.hg.1 | PSD3 |
| TC08001016.hg.1 | -2.08 | JUC08006711.hg.1 | PSD3 |
| TC08001016.hg.1 | -2.13 | JUC08006706.hg.1 | PSD3 |
| TC08001584.hg.1 | 6.44 | JUC08010627.hg.1 | ATAD2 |
| TC08001584.hg.1 | 3.38 | JUC08010603.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.98 | JUC08010594.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.89 | JUC08010613.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.52 | JUC08010606.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.26 | PSR08020799.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.24 | JUC08010607.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.21 | PSR08020790.hg.1 | ATAD2 |
| TC08001584.hg.1 | 2.04 | PSR08020803.hg.1 | ATAD2 |
| TC08001584.hg.1 | -2.13 | JUC08010614.hg.1 | ATAD2 |
| TC17000830.hg.1 | 6.43 | JUC17005912.hg.1 | GPRC5C |
| TC17000830.hg.1 | 3.31 | PSR17010711.hg.1 | GPRC5C |
| TC05001793.hg.1 | 6.42 | JUC05012544.hg.1 | SAR1B |
| TC05001793.hg.1 | -2.05 | PSR05024435.hg.1 | SAR1B |
| TC05001793.hg.1 | -2.36 | PSR05024420.hg.1 | SAR1B |
| TC05001793.hg.1 | -2.37 | PSR05024419.hg.1 | SAR1B |
| TC05001793.hg.1 | -2.41 | PSR05024418.hg.1 | SAR1B |
| TC05001793.hg.1 | -2.54 | PSR05024415.hg.1 | SAR1B |
| TC19001061.hg.1 | 6.42 | JUC19008187.hg.1 | STAP2 |
| TC19001061.hg.1 | 2.4 | PSR19014501.hg.1 | STAP2 |
| TC19001061.hg.1 | -2 | PSR19014494.hg.1 | STAP2 |
| TC19001061.hg.1 | -2.24 | JUC19008177.hg.1 | STAP2 |
| TC14000554.hg.1 | 6.41 | JUC14003432.hg.1 | CALM1, CALI |
| TC14000554.hg.1 | -3.02 | PSR14006760.hg.1 | CALM1, CALI |
| TC21000134.hg.1 | 6.4 | JUC21000604.hg.1 | MRPS6, SLC |
| TC21000134.hg.1 | 5.3 | PSR21001123.hg.1 | MRPS6, SLC |
| TC21000134.hg.1 | 2.97 | JUC21000618.hg.1 | MRPS6, SLC |
| TC21000134.hg.1 | 2.95 | JUC21000617.hg.1 | MRPS6, SLC |
| TC21000134.hg.1 | 2.64 | PSR21001147.hg.1 | MRPS6, SLC |
| TC21000134.hg.1 | 2.15 | JUC21000609.hg.1 | MRPS6, SLC |
| TC21000134.hg.1 | 2 | PSR21001149.hg.1 | MRPS6, SLC |
| TC09001585.hg.1 | 6.36 | JUC09010789.hg.1 | SCAI |
| TC09001585.hg.1 | 3.31 | JUC09010783.hg.1 | SCAI |
| TC09001585.hg.1 | 3.21 | PSR09019933.hg.1 | SCAI |
| TC09001585.hg.1 | 2.56 | PSR09019911.hg.1 | SCAI |

| | | | |
|-----------------|-------|------------------|-------------|
| TC09001585.hg.1 | 2.53 | PSR09019928.hg.1 | SCAI |
| TC09001585.hg.1 | 2.5 | JUC09010782.hg.1 | SCAI |
| TC09001585.hg.1 | 2.27 | PSR09019910.hg.1 | SCAI |
| TC09001585.hg.1 | 2.08 | JUC09010781.hg.1 | SCAI |
| TC09001585.hg.1 | -2.09 | JUC09010798.hg.1 | SCAI |
| TC09001585.hg.1 | -2.31 | JUC09010784.hg.1 | SCAI |
| TC09001585.hg.1 | -4.19 | JUC09010787.hg.1 | SCAI |
| TC12001129.hg.1 | 6.36 | JUC12008133.hg.1 | ANO2 |
| TC12001129.hg.1 | 4.52 | JUC12008121.hg.1 | ANO2 |
| TC12001129.hg.1 | 4.13 | JUC12008124.hg.1 | ANO2 |
| TC12001129.hg.1 | 3.86 | PSR12014757.hg.1 | ANO2 |
| TC12001129.hg.1 | 3.23 | PSR12014754.hg.1 | ANO2 |
| TC12001129.hg.1 | 2.41 | PSR12014755.hg.1 | ANO2 |
| TC12001129.hg.1 | 2.26 | PSR12014753.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.2 | JUC12008135.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.24 | PSR12014747.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.27 | PSR12014780.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.32 | PSR12014766.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.4 | PSR12014779.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.41 | PSR12014762.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.59 | JUC12008123.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.74 | PSR12014765.hg.1 | ANO2 |
| TC12001129.hg.1 | -2.93 | PSR12014772.hg.1 | ANO2 |
| TC12001129.hg.1 | -3.93 | JUC12008107.hg.1 | ANO2 |
| TC22000318.hg.1 | 6.36 | JUC22002199.hg.1 | CACNA1I |
| TC22000318.hg.1 | 5.64 | JUC22002184.hg.1 | CACNA1I |
| TC22000318.hg.1 | 4.76 | JUC22002180.hg.1 | CACNA1I |
| TC22000318.hg.1 | 3.37 | JUC22002191.hg.1 | CACNA1I |
| TC22000318.hg.1 | 3.24 | JUC22002202.hg.1 | CACNA1I |
| TC22000318.hg.1 | 2.79 | JUC22002206.hg.1 | CACNA1I |
| TC22000318.hg.1 | 2.35 | PSR22006053.hg.1 | CACNA1I |
| TC22000318.hg.1 | 2.34 | JUC22002181.hg.1 | CACNA1I |
| TC22000318.hg.1 | 2.2 | JUC22002176.hg.1 | CACNA1I |
| TC22000318.hg.1 | 2.09 | JUC22002186.hg.1 | CACNA1I |
| TC22000318.hg.1 | 2.08 | PSR22006054.hg.1 | CACNA1I |
| TC22000318.hg.1 | -2.76 | JUC22002178.hg.1 | CACNA1I |
| TC14000277.hg.1 | 6.35 | PSR14002948.hg.1 | KLHDC1 |
| TC14000277.hg.1 | 2 | JUC14001366.hg.1 | KLHDC1 |
| TC02004920.hg.1 | 6.33 | JUC02031214.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 3.63 | JUC02031203.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 3.37 | JUC02031184.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 3.08 | JUC02031192.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 2.78 | JUC02031178.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 2.5 | JUC02031198.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 2.09 | PSR02023125.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 2.02 | JUC02031210.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | 2 | JUC02031206.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | -2.07 | PSR02023155.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | -2.44 | PSR02023150.hg.1 | LRRFIP1 |
| TC02004920.hg.1 | -3.74 | JUC02031218.hg.1 | LRRFIP1 |
| TC05000988.hg.1 | 6.33 | JUC05007364.hg.1 | FAM153B, LC |
| TC05000988.hg.1 | 2.79 | JUC05007387.hg.1 | FAM153B, LC |
| TC05000988.hg.1 | 2 | JUC05007405.hg.1 | FAM153B, LC |
| TC05000988.hg.1 | 2 | JUC05007407.hg.1 | FAM153B, LC |
| TC05000988.hg.1 | -2.25 | PSR05014238.hg.1 | FAM153B, LC |
| TC05000988.hg.1 | -2.68 | PSR05014221.hg.1 | FAM153B, LC |
| TC08001282.hg.1 | 6.33 | JUC08008502.hg.1 | PDE7A |
| TC08001282.hg.1 | 2.69 | JUC08008494.hg.1 | PDE7A |

| | | | |
|-----------------|-------|------------------|-------------|
| TC08001282.hg.1 | 2.19 | JUC08008490.hg.1 | PDE7A |
| TC08001282.hg.1 | 2.13 | PSR08016509.hg.1 | PDE7A |
| TC08001282.hg.1 | -2.11 | JUC08008497.hg.1 | PDE7A |
| TC08001282.hg.1 | -2.57 | JUC08008492.hg.1 | PDE7A |
| TC08001282.hg.1 | -2.85 | PSR08016494.hg.1 | PDE7A |
| TC08001282.hg.1 | -3.06 | PSR08016489.hg.1 | PDE7A |
| TC12001837.hg.1 | 6.33 | PSR12024172.hg.1 | NTN4 |
| TC12001837.hg.1 | 5.81 | PSR12024177.hg.1 | NTN4 |
| TC12001837.hg.1 | 5.28 | JUC12013425.hg.1 | NTN4 |
| TC12001837.hg.1 | 3.8 | JUC12013421.hg.1 | NTN4 |
| TC12001837.hg.1 | 3.3 | JUC12013426.hg.1 | NTN4 |
| TC12001837.hg.1 | 3.21 | JUC12013418.hg.1 | NTN4 |
| TC12001837.hg.1 | 3.01 | PSR12024173.hg.1 | NTN4 |
| TC12001837.hg.1 | 2.83 | JUC12013416.hg.1 | NTN4 |
| TC12001837.hg.1 | -4.19 | JUC12013417.hg.1 | NTN4 |
| TC01000734.hg.1 | 6.32 | JUC01006111.hg.1 | SGIP1 |
| TC01000734.hg.1 | 5.43 | PSR01011767.hg.1 | SGIP1 |
| TC01000734.hg.1 | 4.91 | PSR01011825.hg.1 | SGIP1 |
| TC01000734.hg.1 | 4.89 | JUC01006115.hg.1 | SGIP1 |
| TC01000734.hg.1 | 4.89 | JUC01006139.hg.1 | SGIP1 |
| TC01000734.hg.1 | 4.86 | PSR01011823.hg.1 | SGIP1 |
| TC01000734.hg.1 | 4.31 | PSR01011773.hg.1 | SGIP1 |
| TC01000734.hg.1 | 4.12 | JUC01006106.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.84 | JUC01006099.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.74 | PSR01011801.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.66 | PSR01011783.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.66 | PSR01011818.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.39 | PSR01011775.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.06 | JUC01006134.hg.1 | SGIP1 |
| TC01000734.hg.1 | 3.03 | PSR01011776.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.97 | PSR01011812.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.76 | JUC01006098.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.65 | JUC01006141.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.46 | JUC01006127.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.37 | PSR01011779.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.05 | PSR01011814.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.04 | JUC01006116.hg.1 | SGIP1 |
| TC01000734.hg.1 | 2.02 | PSR01011799.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.13 | PSR01011806.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.21 | PSR01011778.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.37 | PSR01011774.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.44 | JUC01006136.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.7 | JUC01006120.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.74 | PSR01011795.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.86 | JUC01006125.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.88 | JUC01006105.hg.1 | SGIP1 |
| TC01000734.hg.1 | -2.94 | JUC01006130.hg.1 | SGIP1 |
| TC01000734.hg.1 | -3.19 | JUC01006123.hg.1 | SGIP1 |
| TC01000734.hg.1 | -3.86 | JUC01006102.hg.1 | SGIP1 |
| TC07003392.hg.1 | 6.32 | JUC07021812.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 5.27 | PSR07003132.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 4.32 | PSR07003135.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 4.06 | PSR07003122.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 3.88 | JUC07021796.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 3.2 | JUC07021795.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 2.49 | PSR07003131.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | 2.06 | PSR07003120.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.06 | PSR07003108.hg.1 | FAM188B, AC |

| | | | |
|-----------------|-------|------------------|-------------|
| TC07003392.hg.1 | -2.06 | PSR07003110.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.08 | PSR07003109.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.09 | PSR07003128.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.09 | JUC07021794.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.11 | PSR07003090.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.13 | PSR07003129.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.13 | JUC07021798.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.21 | JUC07021800.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.24 | PSR07003098.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.27 | JUC07021793.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.3 | JUC07021818.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.32 | JUC07021813.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.38 | PSR07003114.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.42 | PSR07003103.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.49 | PSR07003111.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.53 | PSR07003124.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.54 | JUC07021805.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.56 | JUC07021814.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.63 | JUC07021803.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.71 | PSR07003099.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.76 | JUC07021810.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.82 | PSR07003093.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.83 | PSR07003100.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -2.93 | PSR07003095.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.02 | JUC07021806.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.33 | PSR07003094.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.34 | JUC07021802.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.38 | JUC07021815.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.4 | PSR07003092.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.43 | JUC07021819.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.48 | PSR07003091.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.51 | JUC07021807.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.63 | PSR07003113.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.86 | JUC07021820.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -3.88 | PSR07003104.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -4.21 | PSR07003101.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -4.26 | JUC07021799.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -4.62 | PSR07003102.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -4.72 | PSR07003107.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -5.06 | JUC07021788.hg.1 | FAM188B, AC |
| TC07003392.hg.1 | -5.28 | JUC07021789.hg.1 | FAM188B, AC |
| TC0Y000073.hg.1 | 6.32 | PSR0Y000841.hg.1 | RPS4Y2 |
| TC0Y000073.hg.1 | 3.09 | JUC0Y000372.hg.1 | RPS4Y2 |
| TC0Y000073.hg.1 | 2.67 | PSR0Y000840.hg.1 | RPS4Y2 |
| TC1100332.hg.1 | 6.31 | JUC11002277.hg.1 | CD44 |
| TC1100332.hg.1 | 4.67 | JUC11002270.hg.1 | CD44 |
| TC1100332.hg.1 | 3.31 | JUC11002276.hg.1 | CD44 |
| TC1100332.hg.1 | 3.18 | JUC11002269.hg.1 | CD44 |
| TC1100332.hg.1 | 2.97 | JUC11002280.hg.1 | CD44 |
| TC1100332.hg.1 | 2.83 | JUC11002283.hg.1 | CD44 |
| TC1100332.hg.1 | 2.15 | JUC11002281.hg.1 | CD44 |
| TC1100332.hg.1 | -2.37 | PSR11004275.hg.1 | CD44 |
| TC1100332.hg.1 | -2.53 | JUC11002273.hg.1 | CD44 |
| TC1100332.hg.1 | -2.68 | PSR11004279.hg.1 | CD44 |
| TC1100332.hg.1 | -2.68 | JUC11002295.hg.1 | CD44 |
| TC1100332.hg.1 | -3.24 | JUC11002296.hg.1 | CD44 |
| TC1100332.hg.1 | -3.56 | PSR11004280.hg.1 | CD44 |
| TC1100332.hg.1 | -7.87 | JUC11002292.hg.1 | CD44 |

| | | | |
|-----------------|-------|------------------|----------|
| TC08001248.hg.1 | 6.3 | PSR08016170.hg.1 | TOX |
| TC08001248.hg.1 | 4.38 | JUC08008328.hg.1 | TOX |
| TC08001248.hg.1 | 3.44 | PSR08016174.hg.1 | TOX |
| TC08001248.hg.1 | 2.09 | JUC08008331.hg.1 | TOX |
| TC05001030.hg.1 | 6.29 | JUC05007779.hg.1 | FAM153C |
| TC05001030.hg.1 | 2.78 | JUC05007778.hg.1 | FAM153C |
| TC05001030.hg.1 | -2.7 | PSR05014979.hg.1 | FAM153C |
| TC05001030.hg.1 | -2.88 | JUC05007775.hg.1 | FAM153C |
| TC04000766.hg.1 | 6.28 | JUC04005640.hg.1 | ARFIP1 |
| TC04000766.hg.1 | 3.96 | JUC04005637.hg.1 | ARFIP1 |
| TC04000766.hg.1 | 3.41 | JUC04005654.hg.1 | ARFIP1 |
| TC04000766.hg.1 | 2.61 | PSR04010524.hg.1 | ARFIP1 |
| TC04000766.hg.1 | 2.49 | JUC04005639.hg.1 | ARFIP1 |
| TC04000766.hg.1 | 2.17 | PSR04010522.hg.1 | ARFIP1 |
| TC04000766.hg.1 | 2.02 | PSR04010531.hg.1 | ARFIP1 |
| TC17000015.hg.1 | 6.28 | JUC17000060.hg.1 | SERPINF1 |
| TC17000015.hg.1 | 2.24 | PSR17000142.hg.1 | SERPINF1 |
| TC17000015.hg.1 | 2.06 | JUC17000065.hg.1 | SERPINF1 |
| TC17000015.hg.1 | -2.71 | JUC17000062.hg.1 | SERPINF1 |
| TC17000015.hg.1 | -3.08 | PSR17000138.hg.1 | SERPINF1 |
| TC17000015.hg.1 | -4.18 | JUC17000061.hg.1 | SERPINF1 |
| TC17000015.hg.1 | -7.34 | PSR17000137.hg.1 | SERPINF1 |
| TC17000015.hg.1 | -7.38 | PSR17000135.hg.1 | SERPINF1 |
| TC18000150.hg.1 | 6.27 | JUC18001214.hg.1 | FHOD3 |
| TC18000150.hg.1 | 4.07 | JUC18001207.hg.1 | FHOD3 |
| TC18000150.hg.1 | 3.64 | PSR18001741.hg.1 | FHOD3 |
| TC18000150.hg.1 | 3.47 | PSR18001739.hg.1 | FHOD3 |
| TC18000150.hg.1 | 3.03 | JUC18001229.hg.1 | FHOD3 |
| TC18000150.hg.1 | 2.9 | JUC18001197.hg.1 | FHOD3 |
| TC18000150.hg.1 | 2.74 | PSR18001737.hg.1 | FHOD3 |
| TC18000150.hg.1 | 2.56 | PSR18001740.hg.1 | FHOD3 |
| TC18000150.hg.1 | 2.51 | JUC18001228.hg.1 | FHOD3 |
| TC18000150.hg.1 | 2.15 | PSR18001747.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.09 | PSR18001735.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.14 | PSR18001756.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.17 | PSR18001733.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.17 | PSR18001765.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.21 | JUC18001221.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.22 | PSR18001762.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.26 | PSR18001743.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.27 | JUC18001200.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.33 | PSR18001738.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.44 | PSR18001745.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.44 | PSR18001758.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.45 | PSR18001744.hg.1 | FHOD3 |
| TC18000150.hg.1 | -2.74 | PSR18001755.hg.1 | FHOD3 |
| TC18000150.hg.1 | -3.03 | PSR18001752.hg.1 | FHOD3 |
| TC18000150.hg.1 | -3.03 | JUC18001213.hg.1 | FHOD3 |
| TC18000150.hg.1 | -3.61 | JUC18001202.hg.1 | FHOD3 |
| TC18000150.hg.1 | -3.77 | PSR18001753.hg.1 | FHOD3 |
| TC18000150.hg.1 | -4.09 | JUC18001223.hg.1 | FHOD3 |
| TC18000150.hg.1 | -4.65 | PSR18001750.hg.1 | FHOD3 |
| TC18000150.hg.1 | -4.96 | JUC18001203.hg.1 | FHOD3 |
| TC18000150.hg.1 | -6.59 | JUC18001224.hg.1 | FHOD3 |
| TC18000150.hg.1 | -7.02 | JUC18001210.hg.1 | FHOD3 |
| TC12001307.hg.1 | 6.25 | JUC12009447.hg.1 | SOX5 |
| TC12001307.hg.1 | 4.31 | JUC12009427.hg.1 | SOX5 |
| TC12001307.hg.1 | 3.49 | JUC12009448.hg.1 | SOX5 |

| | | | |
|-----------------|-------|------------------|------------|
| TC12001307.hg.1 | 2.89 | JUC12009431.hg.1 | SOX5 |
| TC12001307.hg.1 | 2.85 | JUC12009444.hg.1 | SOX5 |
| TC12001307.hg.1 | 2.67 | JUC12009453.hg.1 | SOX5 |
| TC12001307.hg.1 | 2.4 | PSR12017165.hg.1 | SOX5 |
| TC12001307.hg.1 | 2.33 | JUC12009443.hg.1 | SOX5 |
| TC12001307.hg.1 | 2.29 | PSR12017171.hg.1 | SOX5 |
| TC12001307.hg.1 | 2.02 | PSR12017158.hg.1 | SOX5 |
| TC12001307.hg.1 | -2.15 | PSR12017146.hg.1 | SOX5 |
| TC01001586.hg.1 | 6.23 | JUC01013116.hg.1 | SMG7 |
| TC01001586.hg.1 | 3.37 | JUC01013091.hg.1 | SMG7 |
| TC01001586.hg.1 | 2.6 | JUC01013115.hg.1 | SMG7 |
| TC01001586.hg.1 | -2.4 | PSR01024601.hg.1 | SMG7 |
| TC13001724.hg.1 | 6.22 | JUC13008471.hg.1 | SOHLH2, CC |
| TC13001724.hg.1 | 2.41 | PSR13006364.hg.1 | SOHLH2, CC |
| TC05001617.hg.1 | 6.2 | JUC05011398.hg.1 | ERAP1 |
| TC05001617.hg.1 | 3.53 | PSR05022094.hg.1 | ERAP1 |
| TC05001617.hg.1 | 3.18 | PSR05022078.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.99 | PSR05022067.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.92 | PSR05022095.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.85 | PSR05022051.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.66 | PSR05022089.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.61 | PSR05022070.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.13 | PSR05022093.hg.1 | ERAP1 |
| TC05001617.hg.1 | 2.12 | PSR05022090.hg.1 | ERAP1 |
| TC05001617.hg.1 | -2.03 | JUC05011378.hg.1 | ERAP1 |
| TC05001617.hg.1 | -2.39 | JUC05011397.hg.1 | ERAP1 |
| TC05001617.hg.1 | -2.49 | JUC05011390.hg.1 | ERAP1 |
| TC05001617.hg.1 | -2.8 | JUC05011399.hg.1 | ERAP1 |
| TC05001617.hg.1 | -3.56 | JUC05011392.hg.1 | ERAP1 |
| TC14000819.hg.1 | 6.2 | JUC14004565.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 5.33 | PSR14008952.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 5.25 | PSR14008953.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 5.15 | PSR14008967.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 5.14 | PSR14008970.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 4.07 | JUC14004561.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 4 | PSR14008968.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 3.57 | PSR14008951.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 2.61 | PSR14008966.hg.1 | ADSSL1 |
| TC14000819.hg.1 | 2.45 | PSR14008954.hg.1 | ADSSL1 |
| TC14000819.hg.1 | -2.03 | JUC14004564.hg.1 | ADSSL1 |
| TC14000819.hg.1 | -2.31 | PSR14008965.hg.1 | ADSSL1 |
| TC14000819.hg.1 | -3.13 | JUC14004555.hg.1 | ADSSL1 |
| TC14000819.hg.1 | -4.02 | JUC14004563.hg.1 | ADSSL1 |
| TC18000161.hg.1 | 6.2 | JUC18001326.hg.1 | SLC14A2 |
| TC18000161.hg.1 | 2.43 | JUC18001313.hg.1 | SLC14A2 |
| TC18000161.hg.1 | 2.2 | PSR18001880.hg.1 | SLC14A2 |
| TC18000161.hg.1 | 2.19 | PSR18001881.hg.1 | SLC14A2 |
| TC18000161.hg.1 | 2.05 | PSR18001878.hg.1 | SLC14A2 |
| TC18000161.hg.1 | -2.11 | PSR18001871.hg.1 | SLC14A2 |
| TC18000161.hg.1 | -2.14 | JUC18001325.hg.1 | SLC14A2 |
| TC18000161.hg.1 | -2.25 | JUC18001321.hg.1 | SLC14A2 |
| TC18000161.hg.1 | -2.43 | PSR18001889.hg.1 | SLC14A2 |
| TC18000161.hg.1 | -3.31 | PSR18001873.hg.1 | SLC14A2 |
| TC19000530.hg.1 | 6.2 | JUC19004295.hg.1 | RYR1 |
| TC19000530.hg.1 | 2.47 | JUC19004290.hg.1 | RYR1 |
| TC19000530.hg.1 | 2.24 | JUC19004195.hg.1 | RYR1 |
| TC19000530.hg.1 | 2.18 | PSR19007127.hg.1 | RYR1 |
| TC19000530.hg.1 | 2.08 | JUC19004240.hg.1 | RYR1 |

| | | | |
|-----------------|--------|------------------|---------|
| TC20000176.hg.1 | 6.2 | JUC20001177.hg.1 | FAM182A |
| TC20000176.hg.1 | 3.19 | JUC20001178.hg.1 | FAM182A |
| TC20000176.hg.1 | 2.88 | JUC20001184.hg.1 | FAM182A |
| TC20000176.hg.1 | 2.45 | JUC20001175.hg.1 | FAM182A |
| TC20000176.hg.1 | 2.12 | PSR20002201.hg.1 | FAM182A |
| TC20000176.hg.1 | 2.03 | JUC20001185.hg.1 | FAM182A |
| TC20000176.hg.1 | 2.03 | JUC20001186.hg.1 | FAM182A |
| TC20000176.hg.1 | -2.23 | PSR20002187.hg.1 | FAM182A |
| TC20000176.hg.1 | -3.37 | PSR20002184.hg.1 | FAM182A |
| TC08000769.hg.1 | 6.19 | JUC08005285.hg.1 | TG |
| TC08000769.hg.1 | 5.27 | JUC08005334.hg.1 | TG |
| TC08000769.hg.1 | 4.44 | JUC08005304.hg.1 | TG |
| TC08000769.hg.1 | 4.37 | JUC08005284.hg.1 | TG |
| TC08000769.hg.1 | 4.28 | JUC08005295.hg.1 | TG |
| TC08000769.hg.1 | 3.92 | JUC08005305.hg.1 | TG |
| TC08000769.hg.1 | 3.76 | JUC08005337.hg.1 | TG |
| TC08000769.hg.1 | 3.66 | JUC08005298.hg.1 | TG |
| TC08000769.hg.1 | 3.06 | JUC08005327.hg.1 | TG |
| TC08000769.hg.1 | 2.79 | PSR08010284.hg.1 | TG |
| TC08000769.hg.1 | 2.68 | PSR08010308.hg.1 | TG |
| TC08000769.hg.1 | 2.65 | JUC08005300.hg.1 | TG |
| TC08000769.hg.1 | 2.65 | JUC08005326.hg.1 | TG |
| TC08000769.hg.1 | 2.43 | JUC08005277.hg.1 | TG |
| TC08000769.hg.1 | 2.39 | PSR08010310.hg.1 | TG |
| TC08000769.hg.1 | 2.26 | PSR08010295.hg.1 | TG |
| TC19001156.hg.1 | 6.19 | JUC19009319.hg.1 | COL5A3 |
| TC19001156.hg.1 | 2.31 | JUC19009333.hg.1 | COL5A3 |
| TC19001156.hg.1 | 2.02 | JUC19009321.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.02 | PSR19016017.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.03 | PSR19016015.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.08 | PSR19015953.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.15 | PSR19016013.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.17 | PSR19016014.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.17 | JUC19009322.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.27 | JUC19009303.hg.1 | COL5A3 |
| TC19001156.hg.1 | -2.35 | JUC19009329.hg.1 | COL5A3 |
| TC19001156.hg.1 | -3.16 | PSR19015957.hg.1 | COL5A3 |
| TC19001156.hg.1 | -3.49 | JUC19009305.hg.1 | COL5A3 |
| TC19001156.hg.1 | -3.56 | JUC19009332.hg.1 | COL5A3 |
| TC19001156.hg.1 | -3.7 | PSR19016018.hg.1 | COL5A3 |
| TC19001156.hg.1 | -3.78 | PSR19015952.hg.1 | COL5A3 |
| TC19001156.hg.1 | -4.38 | JUC19009336.hg.1 | COL5A3 |
| TC19001156.hg.1 | -4.92 | JUC19009280.hg.1 | COL5A3 |
| TC19001156.hg.1 | -5.82 | JUC19009285.hg.1 | COL5A3 |
| TC19001156.hg.1 | -6.68 | PSR19016016.hg.1 | COL5A3 |
| TC19001156.hg.1 | -6.79 | JUC19009315.hg.1 | COL5A3 |
| TC19001156.hg.1 | -9.79 | JUC19009277.hg.1 | COL5A3 |
| TC19001156.hg.1 | -15.02 | JUC19009314.hg.1 | COL5A3 |
| TC17000924.hg.1 | 6.18 | JUC17006882.hg.1 | BAIAP2 |
| TC17000924.hg.1 | 2.51 | PSR17012168.hg.1 | BAIAP2 |
| TC17000924.hg.1 | 2.31 | PSR17012173.hg.1 | BAIAP2 |
| TC17000924.hg.1 | -2.3 | JUC17006867.hg.1 | BAIAP2 |
| TC17000924.hg.1 | -2.35 | JUC17006875.hg.1 | BAIAP2 |
| TC01001204.hg.1 | 6.17 | JUC01010211.hg.1 | PIP5K1A |
| TC01001204.hg.1 | 4.5 | JUC01010194.hg.1 | PIP5K1A |
| TC01001204.hg.1 | 2.72 | JUC01010193.hg.1 | PIP5K1A |
| TC01001204.hg.1 | 2.53 | JUC01010199.hg.1 | PIP5K1A |
| TC01001204.hg.1 | -2.12 | JUC01010200.hg.1 | PIP5K1A |

| | | | |
|-----------------|-------|------------------|---------|
| TC01001204.hg.1 | -3.71 | PSR01018613.hg.1 | PIP5K1A |
| TC04001487.hg.1 | 6.17 | JUC04011077.hg.1 | ARSJ |
| TC04001487.hg.1 | 3.87 | PSR04021107.hg.1 | ARSJ |
| TC04001487.hg.1 | 2.54 | JUC04011086.hg.1 | ARSJ |
| TC04001487.hg.1 | 2.44 | PSR04021106.hg.1 | ARSJ |
| TC04001487.hg.1 | 2.36 | PSR04021082.hg.1 | ARSJ |
| TC04001487.hg.1 | -2.06 | JUC04011084.hg.1 | ARSJ |
| TC01003311.hg.1 | 6.16 | PSR01051374.hg.1 | CLK2 |
| TC01003311.hg.1 | 4.71 | PSR01051372.hg.1 | CLK2 |
| TC01003311.hg.1 | 2.49 | PSR01051400.hg.1 | CLK2 |
| TC01003311.hg.1 | 2.11 | JUC01027006.hg.1 | CLK2 |
| TC01003311.hg.1 | 2.09 | PSR01051387.hg.1 | CLK2 |
| TC01003311.hg.1 | 2.05 | PSR01051401.hg.1 | CLK2 |
| TC01003311.hg.1 | 2.03 | PSR01051402.hg.1 | CLK2 |
| TC01003311.hg.1 | -3.98 | JUC01027012.hg.1 | CLK2 |
| TC0X000821.hg.1 | 6.16 | JUC0X005468.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 3.72 | JUC0X005472.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 3.38 | PSR0X011188.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 3.11 | PSR0X011197.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 3.07 | PSR0X011193.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 2.65 | PSR0X011194.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 2.61 | JUC0X005470.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 2.61 | JUC0X005483.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 2.39 | JUC0X005471.hg.1 | NLGN4X |
| TC0X000821.hg.1 | 2.08 | PSR0X011195.hg.1 | NLGN4X |
| TC0X000821.hg.1 | -2.06 | PSR0X011181.hg.1 | NLGN4X |
| TC0X000821.hg.1 | -2.59 | PSR0X011191.hg.1 | NLGN4X |
| TC08001497.hg.1 | 6.15 | JUC08009991.hg.1 | UBR5 |
| TC08001497.hg.1 | 4.5 | JUC08009971.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.91 | PSR08019644.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.9 | PSR08019697.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.29 | PSR08019705.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.15 | JUC08009988.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.13 | PSR08019706.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.11 | JUC08009961.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.04 | JUC08009985.hg.1 | UBR5 |
| TC08001497.hg.1 | 2.03 | JUC08009993.hg.1 | UBR5 |
| TC08001497.hg.1 | -3 | JUC08009957.hg.1 | UBR5 |
| TC20000368.hg.1 | 6.15 | JUC20002922.hg.1 | EYA2 |
| TC20000368.hg.1 | 5 | JUC20002909.hg.1 | EYA2 |
| TC20000368.hg.1 | 3.78 | PSR20005361.hg.1 | EYA2 |
| TC20000368.hg.1 | 3.75 | JUC20002920.hg.1 | EYA2 |
| TC20000368.hg.1 | 3.49 | JUC20002914.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.88 | JUC20002910.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.82 | JUC20002931.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.6 | JUC20002924.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.3 | JUC20002908.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.29 | PSR20005374.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.22 | PSR20005375.hg.1 | EYA2 |
| TC20000368.hg.1 | 2.17 | JUC20002926.hg.1 | EYA2 |
| TC20000368.hg.1 | -2.12 | PSR20005363.hg.1 | EYA2 |
| TC20000368.hg.1 | -2.14 | PSR20005372.hg.1 | EYA2 |
| TC20000368.hg.1 | -2.24 | PSR20005382.hg.1 | EYA2 |
| TC20000368.hg.1 | -2.39 | PSR20005379.hg.1 | EYA2 |
| TC20000368.hg.1 | -2.41 | JUC20002927.hg.1 | EYA2 |
| TC20000368.hg.1 | -2.81 | JUC20002912.hg.1 | EYA2 |
| TC20000368.hg.1 | -3.07 | JUC20002930.hg.1 | EYA2 |
| TC20000368.hg.1 | -3.09 | PSR20005384.hg.1 | EYA2 |

| | | | |
|-----------------|-------|------------------|------------|
| TC20000368.hg.1 | -3.35 | PSR20005358.hg.1 | EYA2 |
| TC20000368.hg.1 | -4.45 | PSR20005356.hg.1 | EYA2 |
| TC20000368.hg.1 | -4.46 | PSR20005357.hg.1 | EYA2 |
| TC20000368.hg.1 | -4.58 | PSR20005355.hg.1 | EYA2 |
| TC20000368.hg.1 | -6.17 | JUC20002907.hg.1 | EYA2 |
| TC04002931.hg.1 | 6.14 | JUC04017072.hg.1 | PDGFRA |
| TC04002931.hg.1 | 5.16 | JUC04017075.hg.1 | PDGFRA |
| TC04002931.hg.1 | 3.98 | JUC04017073.hg.1 | PDGFRA |
| TC04002931.hg.1 | 3.64 | JUC04017092.hg.1 | PDGFRA |
| TC04002931.hg.1 | 3.41 | PSR04004383.hg.1 | PDGFRA |
| TC04002931.hg.1 | 3.26 | JUC04017077.hg.1 | PDGFRA |
| TC04002931.hg.1 | 3.01 | PSR04004360.hg.1 | PDGFRA |
| TC04002931.hg.1 | 3.01 | PSR04004362.hg.1 | PDGFRA |
| TC04002931.hg.1 | 2.3 | PSR04004363.hg.1 | PDGFRA |
| TC04002931.hg.1 | -2.44 | JUC04017102.hg.1 | PDGFRA |
| TC15000846.hg.1 | 6.14 | JUC15004137.hg.1 | FANCI |
| TC15000846.hg.1 | 2.49 | JUC15004147.hg.1 | FANCI |
| TC15000846.hg.1 | 2.35 | PSR15007805.hg.1 | FANCI |
| TC15000846.hg.1 | -2.41 | JUC15004131.hg.1 | FANCI |
| TC01003532.hg.1 | 6.11 | JUC01028596.hg.1 | SNORD47, S |
| TC01003532.hg.1 | 2.5 | JUC01028600.hg.1 | SNORD47, S |
| TC01003532.hg.1 | 2.38 | PSR01054836.hg.1 | SNORD47, S |
| TC01003532.hg.1 | 2.06 | PSR01054799.hg.1 | SNORD47, S |
| TC01003532.hg.1 | -4.38 | JUC01028606.hg.1 | SNORD47, S |
| TC01003532.hg.1 | -4.9 | JUC01028597.hg.1 | SNORD47, S |
| TC07000178.hg.1 | 6.1 | PSR07002787.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 5.67 | PSR07002771.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 4.8 | PSR07002779.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 4.24 | PSR07002793.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 4.15 | PSR07002770.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 3.6 | PSR07002789.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 3.26 | PSR07002772.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 3.23 | JUC07001341.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.91 | PSR07002773.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.77 | PSR07002798.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.67 | PSR07002799.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.57 | PSR07002769.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.43 | PSR07002797.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.38 | PSR07002785.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.25 | PSR07002803.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.17 | PSR07002781.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | 2.17 | PSR07002783.hg.1 | CREB5, LOC |
| TC07000178.hg.1 | -2.71 | JUC07001349.hg.1 | CREB5, LOC |
| TC10001398.hg.1 | 6.1 | JUC10010247.hg.1 | P4HA1 |
| TC10001398.hg.1 | 5.35 | PSR10017612.hg.1 | P4HA1 |
| TC10001398.hg.1 | 4.75 | PSR10017588.hg.1 | P4HA1 |
| TC10001398.hg.1 | 3.95 | JUC10010265.hg.1 | P4HA1 |
| TC10001398.hg.1 | 3.77 | JUC10010262.hg.1 | P4HA1 |
| TC10001398.hg.1 | 3.45 | JUC10010252.hg.1 | P4HA1 |
| TC10001398.hg.1 | 2.95 | JUC10010266.hg.1 | P4HA1 |
| TC10001398.hg.1 | 2.57 | PSR10017613.hg.1 | P4HA1 |
| TC10001398.hg.1 | 2.27 | JUC10010264.hg.1 | P4HA1 |
| TC10001398.hg.1 | -3.17 | PSR10017611.hg.1 | P4HA1 |
| TC20000391.hg.1 | 6.1 | JUC20003114.hg.1 | SLC9A8 |
| TC20000391.hg.1 | 2.11 | PSR20005637.hg.1 | SLC9A8 |
| TC22000700.hg.1 | 6.09 | PSR22012322.hg.1 | APOL3 |
| TC22000700.hg.1 | 6.08 | JUC22005104.hg.1 | APOL3 |
| TC22000700.hg.1 | 3.83 | PSR22012313.hg.1 | APOL3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC22000700.hg.1 | 3.21 | PSR22012309.hg.1 | APOL3 |
| TC22000700.hg.1 | 3.17 | JUC22005094.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.98 | PSR22012321.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.93 | PSR22012311.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.83 | JUC22005111.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.59 | PSR22012306.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.58 | PSR22012308.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.46 | PSR22012307.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.26 | PSR22012324.hg.1 | APOL3 |
| TC22000700.hg.1 | 2.12 | PSR22012299.hg.1 | APOL3 |
| TC22000700.hg.1 | -2.21 | PSR22012302.hg.1 | APOL3 |
| TC0X001024.hg.1 | 6.08 | JUC0X006839.hg.1 | GRIPAP1 |
| TC0X001024.hg.1 | 2.01 | JUC0X006841.hg.1 | GRIPAP1 |
| TC0X001024.hg.1 | 2 | PSR0X013634.hg.1 | GRIPAP1 |
| TC0X001024.hg.1 | -2.09 | PSR0X013632.hg.1 | GRIPAP1 |
| TC0X001024.hg.1 | -2.28 | JUC0X006821.hg.1 | GRIPAP1 |
| TC13000051.hg.1 | 6.08 | PSR13000426.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 5.17 | PSR13000377.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 4.26 | JUC13000224.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 4.14 | JUC13000222.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.76 | PSR13000379.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.52 | PSR13000378.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.35 | PSR13000372.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.31 | PSR13000427.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.26 | PSR13000392.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.23 | PSR13000394.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.2 | PSR13000423.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.15 | PSR13000371.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 3.12 | PSR13000419.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.94 | PSR13000424.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.71 | PSR13000376.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.58 | PSR13000373.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.58 | PSR13000420.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.57 | JUC13000216.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.53 | JUC13000202.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.48 | PSR13000380.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.43 | JUC13000205.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.32 | PSR13000390.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.27 | JUC13000229.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2.01 | PSR13000425.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | 2 | PSR13000375.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | -2.43 | JUC13000214.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | -2.65 | JUC13000221.hg.1 | C1QTNF9, SF |
| TC13000051.hg.1 | -4.48 | JUC13000227.hg.1 | C1QTNF9, SF |
| TC03000577.hg.1 | 6.06 | JUC03005245.hg.1 | BOC |
| TC03000577.hg.1 | 4.98 | JUC03005224.hg.1 | BOC |
| TC03000577.hg.1 | 4.03 | JUC03005233.hg.1 | BOC |
| TC03000577.hg.1 | 3.95 | JUC03005229.hg.1 | BOC |
| TC03000577.hg.1 | 3.86 | JUC03005235.hg.1 | BOC |
| TC03000577.hg.1 | 3.76 | PSR03010503.hg.1 | BOC |
| TC03000577.hg.1 | 3.63 | PSR03010518.hg.1 | BOC |
| TC03000577.hg.1 | 3.54 | PSR03010506.hg.1 | BOC |
| TC03000577.hg.1 | 3.42 | JUC03005246.hg.1 | BOC |
| TC03000577.hg.1 | 3.21 | JUC03005238.hg.1 | BOC |
| TC03000577.hg.1 | 3.17 | PSR03010530.hg.1 | BOC |
| TC03000577.hg.1 | 2.82 | JUC03005239.hg.1 | BOC |
| TC03000577.hg.1 | 2.76 | PSR03010521.hg.1 | BOC |
| TC03000577.hg.1 | 2.63 | PSR03010487.hg.1 | BOC |

| | | | |
|-----------------|--------|------------------|--------|
| TC03000577.hg.1 | 2.58 | PSR03010537.hg.1 | BOC |
| TC03000577.hg.1 | 2.36 | PSR03010484.hg.1 | BOC |
| TC03000577.hg.1 | 2.31 | PSR03010488.hg.1 | BOC |
| TC03000577.hg.1 | 2.31 | PSR03010509.hg.1 | BOC |
| TC03000577.hg.1 | 2.08 | PSR03010489.hg.1 | BOC |
| TC03000577.hg.1 | 2.07 | PSR03010508.hg.1 | BOC |
| TC04001425.hg.1 | 6.04 | JUC04010455.hg.1 | PPP3CA |
| TC04001425.hg.1 | 2.06 | PSR04019922.hg.1 | PPP3CA |
| TC04001425.hg.1 | -2.09 | JUC04010458.hg.1 | PPP3CA |
| TC04001425.hg.1 | -2.28 | JUC04010448.hg.1 | PPP3CA |
| TC08000149.hg.1 | 6.04 | PSR08001499.hg.1 | LPL |
| TC08000149.hg.1 | 2.87 | JUC08000818.hg.1 | LPL |
| TC08000149.hg.1 | 2.77 | JUC08000813.hg.1 | LPL |
| TC08000149.hg.1 | 2.67 | JUC08000810.hg.1 | LPL |
| TC08000149.hg.1 | 2.63 | PSR08001507.hg.1 | LPL |
| TC08000149.hg.1 | 2.33 | PSR08001496.hg.1 | LPL |
| TC08000149.hg.1 | 2.29 | PSR08001503.hg.1 | LPL |
| TC08000149.hg.1 | 2.2 | PSR08001508.hg.1 | LPL |
| TC08000149.hg.1 | 2.15 | PSR08001513.hg.1 | LPL |
| TC08000149.hg.1 | -2.02 | JUC08000816.hg.1 | LPL |
| TC08000149.hg.1 | -2.08 | PSR08001525.hg.1 | LPL |
| TC08000149.hg.1 | -2.33 | JUC08000814.hg.1 | LPL |
| TC08000149.hg.1 | -2.93 | PSR08001521.hg.1 | LPL |
| TC08000149.hg.1 | -3.06 | PSR08001515.hg.1 | LPL |
| TC08000149.hg.1 | -3.11 | PSR08001522.hg.1 | LPL |
| TC08000149.hg.1 | -3.11 | PSR08001526.hg.1 | LPL |
| TC08000149.hg.1 | -3.15 | PSR08001520.hg.1 | LPL |
| TC08000149.hg.1 | -3.88 | PSR08001527.hg.1 | LPL |
| TC08000149.hg.1 | -4.03 | JUC08000804.hg.1 | LPL |
| TC08000149.hg.1 | -4.98 | PSR08001524.hg.1 | LPL |
| TC08000149.hg.1 | -7.22 | PSR08001528.hg.1 | LPL |
| TC08000149.hg.1 | -8.52 | JUC08000807.hg.1 | LPL |
| TC08000149.hg.1 | -11.02 | JUC08000817.hg.1 | LPL |
| TC02001069.hg.1 | 6.03 | PSR02015873.hg.1 | RBM45 |
| TC02001069.hg.1 | 4.04 | JUC02008426.hg.1 | RBM45 |
| TC02001069.hg.1 | 2.74 | JUC02008432.hg.1 | RBM45 |
| TC02001069.hg.1 | 2.44 | JUC02008438.hg.1 | RBM45 |
| TC02001069.hg.1 | 2.35 | JUC02008428.hg.1 | RBM45 |
| TC02001069.hg.1 | 2.26 | JUC02008435.hg.1 | RBM45 |
| TC02001069.hg.1 | 2.03 | JUC02008427.hg.1 | RBM45 |
| TC02001069.hg.1 | -2.2 | JUC02008433.hg.1 | RBM45 |
| TC02001069.hg.1 | -2.22 | PSR02015881.hg.1 | RBM45 |
| TC05001166.hg.1 | 6.03 | JUC05008458.hg.1 | CTNND2 |
| TC05001166.hg.1 | 4.67 | JUC05008474.hg.1 | CTNND2 |
| TC05001166.hg.1 | 4.35 | PSR05016680.hg.1 | CTNND2 |
| TC05001166.hg.1 | 3.95 | PSR05016692.hg.1 | CTNND2 |
| TC05001166.hg.1 | 3.16 | JUC05008466.hg.1 | CTNND2 |
| TC05001166.hg.1 | 3.1 | JUC05008463.hg.1 | CTNND2 |
| TC05001166.hg.1 | 3.02 | JUC05008490.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.73 | PSR05016688.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.61 | PSR05016676.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.6 | JUC05008478.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.53 | PSR05016655.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.44 | PSR05016637.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.43 | JUC05008468.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.4 | JUC05008457.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.34 | PSR05016671.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.33 | PSR05016670.hg.1 | CTNND2 |

| | | | |
|-----------------|-------|------------------|--------|
| TC05001166.hg.1 | 2.29 | JUC05008485.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.27 | PSR05016689.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.27 | PSR05016697.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.22 | PSR05016684.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.21 | JUC05008489.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.15 | PSR05016677.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.09 | JUC05008484.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.06 | PSR05016643.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.05 | PSR05016687.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.04 | PSR05016683.hg.1 | CTNND2 |
| TC05001166.hg.1 | 2.03 | PSR05016672.hg.1 | CTNND2 |
| TC05001166.hg.1 | -2.33 | JUC05008472.hg.1 | CTNND2 |
| TC05001166.hg.1 | -3.88 | JUC05008480.hg.1 | CTNND2 |
| TC05001166.hg.1 | -4.68 | PSR05016649.hg.1 | CTNND2 |
| TC05003407.hg.1 | 6.03 | JUC05019343.hg.1 | CDKL3 |
| TC05003407.hg.1 | 2.46 | JUC05019349.hg.1 | CDKL3 |
| TC05003407.hg.1 | 2.44 | PSR05024365.hg.1 | CDKL3 |
| TC05003407.hg.1 | 2.44 | JUC05019322.hg.1 | CDKL3 |
| TC05003407.hg.1 | 2.26 | JUC05019344.hg.1 | CDKL3 |
| TC05003407.hg.1 | -2.44 | JUC05019341.hg.1 | CDKL3 |
| TC05003407.hg.1 | -2.45 | JUC05019336.hg.1 | CDKL3 |
| TC04000038.hg.1 | 6.01 | JUC04000373.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 5.04 | PSR04000918.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 4.47 | PSR04000928.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 4.44 | JUC04000384.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 4.12 | PSR04000954.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.72 | JUC04000366.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.65 | PSR04000924.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.63 | PSR04000929.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.55 | PSR04000931.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.48 | JUC04000383.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.47 | JUC04000371.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.41 | PSR04000955.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.39 | JUC04000362.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.36 | JUC04000360.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.26 | PSR04000969.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 3.23 | PSR04000908.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.97 | JUC04000372.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.89 | PSR04000934.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.86 | PSR04000921.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.86 | PSR04000932.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.84 | PSR04000910.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.8 | PSR04000914.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.74 | PSR04000947.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.69 | JUC04000374.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.65 | PSR04000973.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.56 | PSR04000926.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.52 | PSR04000917.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.48 | PSR04000919.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.44 | PSR04000949.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.44 | JUC04000353.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.43 | JUC04000379.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.42 | PSR04000963.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.4 | PSR04000939.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.35 | PSR04000956.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.3 | PSR04000920.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.24 | PSR04000964.hg.1 | SH3BP2 |
| TC04000038.hg.1 | 2.15 | JUC04000376.hg.1 | SH3BP2 |

| | | | |
|-----------------|-------|------------------|--------|
| TC0400038.hg.1 | 2.09 | PSR04000967.hg.1 | SH3BP2 |
| TC0400038.hg.1 | 2.04 | PSR04000966.hg.1 | SH3BP2 |
| TC0400038.hg.1 | 2.01 | JUC04000357.hg.1 | SH3BP2 |
| TC0400038.hg.1 | -2.31 | JUC04000356.hg.1 | SH3BP2 |
| TC10000865.hg.1 | 6.01 | JUC10005880.hg.1 | GRK5 |
| TC10000865.hg.1 | 4.75 | PSR10010451.hg.1 | GRK5 |
| TC10000865.hg.1 | 4.03 | PSR10010443.hg.1 | GRK5 |
| TC10000865.hg.1 | 3.53 | JUC10005867.hg.1 | GRK5 |
| TC10000865.hg.1 | 3.49 | PSR10010448.hg.1 | GRK5 |
| TC10000865.hg.1 | 3.08 | JUC10005875.hg.1 | GRK5 |
| TC10000865.hg.1 | 3.02 | JUC10005869.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.75 | PSR10010467.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.66 | JUC10005872.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.6 | PSR10010473.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.51 | JUC10005864.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.34 | PSR10010449.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.16 | PSR10010463.hg.1 | GRK5 |
| TC10000865.hg.1 | 2.16 | JUC10005863.hg.1 | GRK5 |
| TC10000865.hg.1 | -2.01 | PSR10010459.hg.1 | GRK5 |
| TC10000865.hg.1 | -2.17 | PSR10010457.hg.1 | GRK5 |
| TC02001362.hg.1 | 6 | JUC02011363.hg.1 | MFF |
| TC02001362.hg.1 | -2.15 | PSR02021299.hg.1 | MFF |
| TC02001362.hg.1 | -2.19 | PSR02021271.hg.1 | MFF |
| TC04001057.hg.1 | 6 | PSR04014446.hg.1 | FBXL5 |
| TC04001057.hg.1 | 3.3 | JUC04007728.hg.1 | FBXL5 |
| TC04001057.hg.1 | 3 | JUC04007711.hg.1 | FBXL5 |
| TC04001057.hg.1 | 2.72 | JUC04007714.hg.1 | FBXL5 |
| TC04001057.hg.1 | 2.06 | JUC04007729.hg.1 | FBXL5 |
| TC04001057.hg.1 | 2.04 | JUC04007724.hg.1 | FBXL5 |
| TC08000291.hg.1 | 6 | JUC08002001.hg.1 | LETM2 |
| TC08000291.hg.1 | 3.62 | PSR08004051.hg.1 | LETM2 |
| TC08000291.hg.1 | 3.36 | PSR08004066.hg.1 | LETM2 |
| TC08000291.hg.1 | 3.32 | PSR08004042.hg.1 | LETM2 |
| TC08000291.hg.1 | 3.23 | PSR08004033.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.99 | PSR08004064.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.94 | PSR08004053.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.7 | PSR08004039.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.66 | PSR08004034.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.66 | PSR08004049.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.37 | JUC08002002.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.34 | PSR08004046.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.27 | JUC08001997.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.26 | PSR08004052.hg.1 | LETM2 |
| TC08000291.hg.1 | 2.25 | PSR08004060.hg.1 | LETM2 |
| TC08000291.hg.1 | -2.06 | PSR08004058.hg.1 | LETM2 |
| TC08000291.hg.1 | -4.68 | JUC08001999.hg.1 | LETM2 |
| TC18000040.hg.1 | 6 | JUC18000252.hg.1 | SOGA2 |
| TC18000040.hg.1 | -2.28 | PSR18000378.hg.1 | SOGA2 |
| TC18000040.hg.1 | -2.37 | PSR18000396.hg.1 | SOGA2 |
| TC18000040.hg.1 | -2.69 | PSR18000391.hg.1 | SOGA2 |
| TC01001188.hg.1 | 5.99 | PSR01018298.hg.1 | ECM1 |
| TC01001188.hg.1 | 5.64 | PSR01018304.hg.1 | ECM1 |
| TC01001188.hg.1 | 5.36 | PSR01018303.hg.1 | ECM1 |
| TC01001188.hg.1 | 5.34 | PSR01018308.hg.1 | ECM1 |
| TC01001188.hg.1 | 4.47 | JUC01010046.hg.1 | ECM1 |
| TC01001188.hg.1 | 4.06 | PSR01018291.hg.1 | ECM1 |
| TC01001188.hg.1 | 3.51 | JUC01010051.hg.1 | ECM1 |
| TC01001188.hg.1 | 3.33 | PSR01018312.hg.1 | ECM1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC01001188.hg.1 | 2.97 | JUC01010050.hg.1 | ECM1 |
| TC01001188.hg.1 | 2.78 | PSR01018315.hg.1 | ECM1 |
| TC17000885.hg.1 | 5.99 | JUC17006451.hg.1 | 9-Sep |
| TC17000885.hg.1 | 5.22 | JUC17006454.hg.1 | 9-Sep |
| TC17000885.hg.1 | 3.5 | PSR17011529.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.87 | PSR17011525.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.73 | PSR17011512.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.71 | PSR17011511.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.49 | PSR17011518.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.36 | PSR17011515.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.31 | PSR17011526.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.3 | PSR17011527.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.27 | PSR17011513.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.26 | JUC17006452.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.22 | PSR17011523.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.09 | PSR17011524.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.02 | JUC17006444.hg.1 | 9-Sep |
| TC17000885.hg.1 | 2.01 | PSR17011516.hg.1 | 9-Sep |
| TC17000885.hg.1 | -3.57 | JUC17006455.hg.1 | 9-Sep |
| TC02002928.hg.1 | 5.98 | JUC02024562.hg.1 | NDUFA10 |
| TC02002928.hg.1 | 2.48 | PSR02046941.hg.1 | NDUFA10 |
| TC02002928.hg.1 | 2.26 | JUC02024582.hg.1 | NDUFA10 |
| TC02002928.hg.1 | -2.24 | JUC02024578.hg.1 | NDUFA10 |
| TC11000184.hg.1 | 5.98 | JUC11001116.hg.1 | AMPD3 |
| TC11000184.hg.1 | 5.52 | JUC11001109.hg.1 | AMPD3 |
| TC11000184.hg.1 | 3.27 | PSR11002474.hg.1 | AMPD3 |
| TC11000184.hg.1 | 3.18 | PSR11002481.hg.1 | AMPD3 |
| TC11000184.hg.1 | 3.14 | JUC11001110.hg.1 | AMPD3 |
| TC11000184.hg.1 | 3.05 | PSR11002473.hg.1 | AMPD3 |
| TC11000184.hg.1 | 3.04 | PSR11002501.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.81 | PSR11002476.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.74 | JUC11001127.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.73 | PSR11002479.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.65 | JUC11001113.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.52 | PSR11002496.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.31 | JUC11001115.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.21 | PSR11002493.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.2 | PSR11002495.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.14 | PSR11002498.hg.1 | AMPD3 |
| TC11000184.hg.1 | 2.04 | PSR11002492.hg.1 | AMPD3 |
| TC11000184.hg.1 | -2.13 | PSR11002505.hg.1 | AMPD3 |
| TC11000184.hg.1 | -2.39 | PSR11002491.hg.1 | AMPD3 |
| TC11000184.hg.1 | -3.16 | PSR11002489.hg.1 | AMPD3 |
| TC11000184.hg.1 | -3.96 | JUC11001131.hg.1 | AMPD3 |
| TC11000184.hg.1 | -5.56 | JUC11001126.hg.1 | AMPD3 |
| TC11000184.hg.1 | -8.04 | JUC11001123.hg.1 | AMPD3 |
| TC0X000413.hg.1 | 5.96 | PSR0X005524.hg.1 | UPRT |
| TC0X000413.hg.1 | -2.04 | JUC0X002732.hg.1 | UPRT |
| TC0X000987.hg.1 | 5.94 | JUC0X006596.hg.1 | |
| TC0X000987.hg.1 | 2.62 | PSR0X013117.hg.1 | |
| TC01001996.hg.1 | 5.93 | JUC01016826.hg.1 | KIF26B |
| TC01001996.hg.1 | 4.25 | JUC01016830.hg.1 | KIF26B |
| TC01001996.hg.1 | 2.95 | JUC01016822.hg.1 | KIF26B |
| TC01001996.hg.1 | 2.76 | JUC01016827.hg.1 | KIF26B |
| TC01001996.hg.1 | -2.46 | PSR01030904.hg.1 | KIF26B |
| TC01001996.hg.1 | -2.53 | JUC01016816.hg.1 | KIF26B |
| TC01001996.hg.1 | -2.54 | PSR01030923.hg.1 | KIF26B |
| TC01001996.hg.1 | -2.68 | JUC01016820.hg.1 | KIF26B |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01001996.hg.1 | -2.76 | PSR01030907.hg.1 | KIF26B |
| TC01001996.hg.1 | -3.15 | PSR01030908.hg.1 | KIF26B |
| TC01001996.hg.1 | -3.75 | PSR01030920.hg.1 | KIF26B |
| TC01001996.hg.1 | -3.84 | JUC01016821.hg.1 | KIF26B |
| TC01001996.hg.1 | -3.9 | JUC01016814.hg.1 | KIF26B |
| TC01001996.hg.1 | -3.97 | PSR01030918.hg.1 | KIF26B |
| TC01001996.hg.1 | -4.56 | JUC01016818.hg.1 | KIF26B |
| TC05000158.hg.1 | 5.93 | JUC05000976.hg.1 | SPEF2 |
| TC05000158.hg.1 | 5.26 | JUC05000992.hg.1 | SPEF2 |
| TC05000158.hg.1 | 4.27 | JUC05000950.hg.1 | SPEF2 |
| TC05000158.hg.1 | 4.21 | PSR05001774.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.75 | JUC05000995.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.61 | JUC05000990.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.53 | PSR05001754.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.41 | JUC05000964.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.36 | JUC05000979.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.23 | PSR05001769.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.21 | JUC05000969.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.13 | PSR05001767.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.07 | JUC05000963.hg.1 | SPEF2 |
| TC05000158.hg.1 | 3.05 | PSR05001763.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.97 | PSR05001770.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.96 | PSR05001777.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.91 | PSR05001778.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.89 | PSR05001748.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.82 | PSR05001762.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.78 | PSR05001772.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.74 | JUC05000949.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.74 | JUC05000965.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.63 | PSR05001764.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.58 | JUC05000994.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.47 | PSR05001776.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.41 | PSR05001714.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.38 | JUC05000975.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.36 | PSR05001765.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.32 | PSR05001773.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.26 | PSR05001757.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.21 | PSR05001775.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.2 | PSR05001755.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.18 | PSR05001752.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.16 | JUC05000947.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.13 | JUC05000982.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2.03 | PSR05001760.hg.1 | SPEF2 |
| TC05000158.hg.1 | 2 | JUC05000967.hg.1 | SPEF2 |
| TC05000158.hg.1 | -2.12 | PSR05001722.hg.1 | SPEF2 |
| TC04001431.hg.1 | 5.91 | JUC04010514.hg.1 | UBE2D3 |
| TC04001431.hg.1 | 2 | JUC04010522.hg.1 | UBE2D3 |
| TC04001431.hg.1 | -3.02 | PSR04020054.hg.1 | UBE2D3 |
| TC07003376.hg.1 | 5.9 | JUC07021649.hg.1 | POLR2J3, UF |
| TC07003376.hg.1 | 3.8 | JUC07021640.hg.1 | POLR2J3, UF |
| TC07003376.hg.1 | -2.19 | PSR07026340.hg.1 | POLR2J3, UF |
| TC07003376.hg.1 | -2.47 | JUC07021655.hg.1 | POLR2J3, UF |
| TC07003376.hg.1 | -2.78 | PSR07026373.hg.1 | POLR2J3, UF |
| TC02000271.hg.1 | 5.89 | JUC02002101.hg.1 | DYNC2LI1 |
| TC02000271.hg.1 | 2.01 | PSR02004043.hg.1 | DYNC2LI1 |
| TC02001687.hg.1 | 5.89 | JUC02014267.hg.1 | IFT172 |
| TC02001687.hg.1 | 2.53 | JUC02014223.hg.1 | IFT172 |
| TC02001687.hg.1 | 2.17 | JUC02014251.hg.1 | IFT172 |

| | | | |
|-----------------|-------|------------------|---------|
| TC02001687.hg.1 | 2.04 | PSR02027297.hg.1 | IFT172 |
| TC02001687.hg.1 | 2.04 | JUC02014269.hg.1 | IFT172 |
| TC02001687.hg.1 | -2.01 | PSR02027305.hg.1 | IFT172 |
| TC02001687.hg.1 | -2.3 | JUC02014268.hg.1 | IFT172 |
| TC02001687.hg.1 | -2.33 | JUC02014244.hg.1 | IFT172 |
| TC02001687.hg.1 | -2.63 | JUC02014264.hg.1 | IFT172 |
| TC02001687.hg.1 | -2.66 | JUC02014225.hg.1 | IFT172 |
| TC02001687.hg.1 | -2.68 | JUC02014273.hg.1 | IFT172 |
| TC02001687.hg.1 | -4.36 | JUC02014263.hg.1 | IFT172 |
| TC17000819.hg.1 | 5.89 | JUC17005808.hg.1 | SOX9 |
| TC17000819.hg.1 | -2.24 | PSR17010551.hg.1 | SOX9 |
| TC19001076.hg.1 | 5.89 | JUC19008307.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.71 | JUC19008316.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.46 | JUC19008306.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.4 | JUC19008289.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.39 | JUC19008303.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.27 | PSR19014711.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.17 | JUC19008297.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.14 | JUC19008310.hg.1 | PTPRS |
| TC19001076.hg.1 | 2.04 | PSR19014724.hg.1 | PTPRS |
| TC19001076.hg.1 | -2.3 | JUC19008291.hg.1 | PTPRS |
| TC07000784.hg.1 | 5.88 | JUC07005794.hg.1 | CCDC136 |
| TC07000784.hg.1 | 3.46 | JUC07005813.hg.1 | CCDC136 |
| TC07000784.hg.1 | -2.3 | PSR07012381.hg.1 | CCDC136 |
| TC07000784.hg.1 | -6.61 | JUC07005791.hg.1 | CCDC136 |
| TC11000773.hg.1 | 5.87 | JUC11005159.hg.1 | P2RY6 |
| TC11000773.hg.1 | 2.67 | JUC11005160.hg.1 | P2RY6 |
| TC11000773.hg.1 | 2.51 | PSR11009934.hg.1 | P2RY6 |
| TC11000773.hg.1 | 2.43 | PSR11009935.hg.1 | P2RY6 |
| TC11000773.hg.1 | 2.42 | PSR11009949.hg.1 | P2RY6 |
| TC11000773.hg.1 | 2.19 | PSR11009938.hg.1 | P2RY6 |
| TC11000773.hg.1 | 2.06 | PSR11009944.hg.1 | P2RY6 |
| TC11000773.hg.1 | -3.23 | JUC11005164.hg.1 | P2RY6 |
| TC06000726.hg.1 | 5.86 | JUC06003900.hg.1 | RIMS1 |
| TC06000726.hg.1 | 4.3 | JUC06003956.hg.1 | RIMS1 |
| TC06000726.hg.1 | 3.71 | JUC06003952.hg.1 | RIMS1 |
| TC06000726.hg.1 | 3.5 | JUC06003932.hg.1 | RIMS1 |
| TC06000726.hg.1 | 3.13 | JUC06003919.hg.1 | RIMS1 |
| TC06000726.hg.1 | 3.05 | JUC06003905.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.93 | PSR06008665.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.92 | JUC06003948.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.8 | JUC06003904.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.65 | JUC06003950.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.46 | JUC06003933.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.31 | JUC06003942.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.3 | PSR06008653.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.25 | PSR06008631.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.15 | PSR06008688.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.12 | PSR06008635.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.07 | PSR06008684.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.05 | PSR06008614.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2.01 | PSR06008671.hg.1 | RIMS1 |
| TC06000726.hg.1 | 2 | JUC06003939.hg.1 | RIMS1 |
| TC01000347.hg.1 | 5.85 | JUC01002825.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | 2.24 | PSR01005382.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | 2.07 | JUC01002824.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | 2.01 | PSR01005353.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -2.08 | PSR01005371.hg.1 | RPS6KA1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC01000347.hg.1 | -2.52 | PSR01005361.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -3 | PSR01005384.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -3.67 | JUC01002794.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -3.73 | JUC01002809.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -3.84 | JUC01002816.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -3.9 | JUC01002800.hg.1 | RPS6KA1 |
| TC01000347.hg.1 | -5.49 | JUC01002813.hg.1 | RPS6KA1 |
| TC12000606.hg.1 | 5.84 | JUC12004259.hg.1 | MDM2 |
| TC12000606.hg.1 | -2.04 | PSR12008030.hg.1 | MDM2 |
| TC12000606.hg.1 | -2.13 | JUC12004252.hg.1 | MDM2 |
| TC12000606.hg.1 | -2.43 | PSR12008016.hg.1 | MDM2 |
| TC02002074.hg.1 | 5.83 | JUC02017114.hg.1 | EIF2AK3 |
| TC02002074.hg.1 | 2.79 | PSR02033226.hg.1 | EIF2AK3 |
| TC02002074.hg.1 | 2.5 | PSR02033231.hg.1 | EIF2AK3 |
| TC02002074.hg.1 | 2.32 | PSR02033229.hg.1 | EIF2AK3 |
| TC02002074.hg.1 | 2.01 | PSR02033233.hg.1 | EIF2AK3 |
| TC12001168.hg.1 | 5.83 | PSR12015538.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 5.31 | PSR12015537.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 5.3 | JUC12008558.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 5.23 | JUC12008559.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 5.18 | PSR12015551.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 4.47 | JUC12008564.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 4.35 | PSR12015539.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 4.04 | PSR12015552.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 3.91 | JUC12008563.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 3.8 | JUC12008560.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 3.72 | PSR12015540.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 3.61 | JUC12008568.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 3.23 | PSR12015534.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 3.18 | PSR12015529.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 2.46 | PSR12015521.hg.1 | SLC2A14 |
| TC12001168.hg.1 | 2.02 | JUC12008571.hg.1 | SLC2A14 |
| TC04001783.hg.1 | 5.82 | JUC04012944.hg.1 | MGC45800 |
| TC04001783.hg.1 | 3.78 | PSR04024409.hg.1 | MGC45800 |
| TC04001783.hg.1 | 3.48 | JUC04012945.hg.1 | MGC45800 |
| TC04001783.hg.1 | 2.54 | PSR04024410.hg.1 | MGC45800 |
| TC04001783.hg.1 | -2 | PSR04024423.hg.1 | MGC45800 |
| TC04001783.hg.1 | -2.08 | PSR04024414.hg.1 | MGC45800 |
| TC04001783.hg.1 | -2.19 | JUC04012953.hg.1 | MGC45800 |
| TC04001783.hg.1 | -2.37 | PSR04024412.hg.1 | MGC45800 |
| TC08000695.hg.1 | 5.82 | JUC08004786.hg.1 | MAL2 |
| TC08000695.hg.1 | 4.06 | PSR08009382.hg.1 | MAL2 |
| TC08000695.hg.1 | 3.67 | JUC08004793.hg.1 | MAL2 |
| TC08000695.hg.1 | 3.4 | PSR08009397.hg.1 | MAL2 |
| TC08000695.hg.1 | 3.09 | JUC08004791.hg.1 | MAL2 |
| TC08000695.hg.1 | 3.06 | PSR08009390.hg.1 | MAL2 |
| TC08000695.hg.1 | 2.99 | PSR08009383.hg.1 | MAL2 |
| TC08000695.hg.1 | 2.56 | PSR08009384.hg.1 | MAL2 |
| TC08000695.hg.1 | 2.13 | PSR08009380.hg.1 | MAL2 |
| TC08000695.hg.1 | 2.04 | PSR08009388.hg.1 | MAL2 |
| TC08000695.hg.1 | 2.04 | PSR08009396.hg.1 | MAL2 |
| TC08000695.hg.1 | -2.14 | JUC08004790.hg.1 | MAL2 |
| TC10002961.hg.1 | 5.82 | JUC10017501.hg.1 | NSUN6 |
| TC10002961.hg.1 | -2.67 | PSR10013654.hg.1 | NSUN6 |
| TC10002961.hg.1 | -2.67 | JUC10017500.hg.1 | NSUN6 |
| TC02001126.hg.1 | 5.81 | JUC02009174.hg.1 | MYO1B |
| TC02001126.hg.1 | 4.01 | JUC02009165.hg.1 | MYO1B |
| TC02001126.hg.1 | 2.35 | PSR02017114.hg.1 | MYO1B |

| | | | |
|-----------------|-------|------------------|------------|
| TC02001126.hg.1 | 2.32 | PSR02017102.hg.1 | MYO1B |
| TC02001126.hg.1 | 2.04 | PSR02017060.hg.1 | MYO1B |
| TC02001628.hg.1 | 5.81 | JUC02013582.hg.1 | APOB |
| TC02001628.hg.1 | 5.79 | JUC02013572.hg.1 | APOB |
| TC02001628.hg.1 | 3.75 | PSR02026065.hg.1 | APOB |
| TC02001628.hg.1 | 3.28 | JUC02013561.hg.1 | APOB |
| TC02001628.hg.1 | 3 | JUC02013563.hg.1 | APOB |
| TC02001628.hg.1 | 2.89 | JUC02013581.hg.1 | APOB |
| TC02001628.hg.1 | 2.85 | PSR02026060.hg.1 | APOB |
| TC02001628.hg.1 | 2.79 | JUC02013580.hg.1 | APOB |
| TC02001628.hg.1 | 2.74 | JUC02013564.hg.1 | APOB |
| TC02001628.hg.1 | 2.3 | PSR02026068.hg.1 | APOB |
| TC02001628.hg.1 | 2.22 | JUC02013570.hg.1 | APOB |
| TC02001628.hg.1 | 2.18 | PSR02026090.hg.1 | APOB |
| TC02001628.hg.1 | 2.16 | JUC02013568.hg.1 | APOB |
| TC02001628.hg.1 | 2.15 | PSR02026087.hg.1 | APOB |
| TC02001628.hg.1 | -2.05 | JUC02013573.hg.1 | APOB |
| TC02001628.hg.1 | -2.06 | JUC02013578.hg.1 | APOB |
| TC02001628.hg.1 | -2.13 | JUC02013566.hg.1 | APOB |
| TC02001628.hg.1 | -2.33 | JUC02013585.hg.1 | APOB |
| TC02001628.hg.1 | -2.43 | PSR02026083.hg.1 | APOB |
| TC02001628.hg.1 | -2.46 | JUC02013558.hg.1 | APOB |
| TC02001628.hg.1 | -2.57 | PSR02026079.hg.1 | APOB |
| TC02001628.hg.1 | -2.67 | PSR02026077.hg.1 | APOB |
| TC02001628.hg.1 | -2.79 | PSR02026094.hg.1 | APOB |
| TC02001628.hg.1 | -3.01 | PSR02026063.hg.1 | APOB |
| TC02001628.hg.1 | -3.33 | JUC02013586.hg.1 | APOB |
| TC02001628.hg.1 | -3.53 | PSR02026059.hg.1 | APOB |
| TC02001628.hg.1 | -3.86 | PSR02026092.hg.1 | APOB |
| TC02001628.hg.1 | -4.22 | PSR02026075.hg.1 | APOB |
| TC15001107.hg.1 | 5.81 | PSR15010083.hg.1 | FAM189A1 |
| TC15001107.hg.1 | 2.9 | PSR15010085.hg.1 | FAM189A1 |
| TC15001107.hg.1 | -2.48 | JUC15005335.hg.1 | FAM189A1 |
| TC01002832.hg.1 | 5.8 | JUC01023653.hg.1 | COL24A1 |
| TC01002832.hg.1 | 4.84 | PSR01044149.hg.1 | COL24A1 |
| TC01002832.hg.1 | 2.76 | JUC01023668.hg.1 | COL24A1 |
| TC01002832.hg.1 | 2.16 | JUC01023649.hg.1 | COL24A1 |
| TC01002832.hg.1 | 2.1 | PSR01044144.hg.1 | COL24A1 |
| TC01002832.hg.1 | 2.1 | PSR01044145.hg.1 | COL24A1 |
| TC01002832.hg.1 | 2.01 | JUC01023699.hg.1 | COL24A1 |
| TC01002832.hg.1 | -2.05 | PSR01044135.hg.1 | COL24A1 |
| TC01002832.hg.1 | -2.43 | JUC01023691.hg.1 | COL24A1 |
| TC01002832.hg.1 | -2.44 | JUC01023697.hg.1 | COL24A1 |
| TC01002832.hg.1 | -2.48 | PSR01044090.hg.1 | COL24A1 |
| TC01002832.hg.1 | -4.61 | JUC01023713.hg.1 | COL24A1 |
| TC0X000298.hg.1 | 5.79 | JUC0X001944.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 3.55 | JUC0X001951.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 3.47 | PSR0X003995.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 2.87 | JUC0X001943.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 2.75 | PSR0X003963.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 2.4 | JUC0X001941.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 2.26 | JUC0X001932.hg.1 | MAGED4, MA |
| TC0X000298.hg.1 | 2.07 | PSR0X003990.hg.1 | MAGED4, MA |
| TC03001500.hg.1 | 5.78 | PSR03027397.hg.1 | ACOX2 |
| TC03001500.hg.1 | 3.67 | PSR03027355.hg.1 | ACOX2 |
| TC03001500.hg.1 | 3.3 | JUC03013379.hg.1 | ACOX2 |
| TC03001500.hg.1 | 3.06 | PSR03027384.hg.1 | ACOX2 |
| TC03001500.hg.1 | 2.52 | PSR03027374.hg.1 | ACOX2 |

| | | | |
|-----------------|-------|------------------|---------|
| TC03001500.hg.1 | 2.46 | PSR03027381.hg.1 | ACOX2 |
| TC03001500.hg.1 | 2.06 | JUC03013389.hg.1 | ACOX2 |
| TC03001500.hg.1 | 2.03 | PSR03027363.hg.1 | ACOX2 |
| TC03001500.hg.1 | 2.02 | JUC03013381.hg.1 | ACOX2 |
| TC03001500.hg.1 | -2.2 | JUC03013382.hg.1 | ACOX2 |
| TC03001500.hg.1 | -2.23 | PSR03027378.hg.1 | ACOX2 |
| TC03001500.hg.1 | -2.25 | PSR03027383.hg.1 | ACOX2 |
| TC03001500.hg.1 | -2.33 | PSR03027386.hg.1 | ACOX2 |
| TC03001500.hg.1 | -2.4 | PSR03027354.hg.1 | ACOX2 |
| TC03001500.hg.1 | -3.36 | JUC03013374.hg.1 | ACOX2 |
| TC10000289.hg.1 | 5.78 | JUC10001861.hg.1 | RASSF4 |
| TC10000289.hg.1 | 5.17 | JUC10001845.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.66 | PSR10003233.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.51 | PSR10003246.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.51 | PSR10003257.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.24 | PSR10003219.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.15 | JUC10001848.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.08 | PSR10003241.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2.04 | JUC10001864.hg.1 | RASSF4 |
| TC10000289.hg.1 | 2 | PSR10003254.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2 | JUC10001851.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.26 | JUC10001850.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.36 | PSR10003253.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.43 | JUC10001855.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.57 | PSR10003238.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.59 | PSR10003249.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.8 | JUC10001853.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.9 | PSR10003225.hg.1 | RASSF4 |
| TC10000289.hg.1 | -2.92 | PSR10003255.hg.1 | RASSF4 |
| TC10000289.hg.1 | -4.06 | JUC10001866.hg.1 | RASSF4 |
| TC21001058.hg.1 | 5.78 | JUC21005084.hg.1 | DONSON |
| TC21001058.hg.1 | 3.5 | JUC21005089.hg.1 | DONSON |
| TC21001058.hg.1 | -2.67 | PSR21004740.hg.1 | DONSON |
| TC0Y000353.hg.1 | 5.77 | PSR0Y000796.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | 4.45 | PSR0Y000795.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | 3.57 | PSR0Y000791.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -2.29 | PSR0Y000797.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -2.69 | JUC0Y001894.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -2.78 | PSR0Y000788.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -2.78 | PSR0Y000804.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -3.62 | PSR0Y000789.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -4.69 | PSR0Y000790.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -4.79 | JUC0Y001898.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -5.3 | PSR0Y000800.hg.1 | TXLNG2P |
| TC0Y000353.hg.1 | -6.21 | PSR0Y000799.hg.1 | TXLNG2P |
| TC11000043.hg.1 | 5.77 | JUC11000425.hg.1 | BRSK2 |
| TC11000043.hg.1 | 5.62 | JUC11000436.hg.1 | BRSK2 |
| TC11000043.hg.1 | 4.08 | JUC11000440.hg.1 | BRSK2 |
| TC11000043.hg.1 | 2.54 | JUC11000437.hg.1 | BRSK2 |
| TC11000043.hg.1 | 2 | PSR11000878.hg.1 | BRSK2 |
| TC11000043.hg.1 | -2.1 | JUC11000421.hg.1 | BRSK2 |
| TC11000043.hg.1 | -3.3 | JUC11000439.hg.1 | BRSK2 |
| TC02001658.hg.1 | 5.76 | JUC02013820.hg.1 | DNMT3A |
| TC02001658.hg.1 | 2.5 | JUC02013807.hg.1 | DNMT3A |
| TC02001658.hg.1 | 2.09 | PSR02026486.hg.1 | DNMT3A |
| TC02001658.hg.1 | 2.07 | JUC02013806.hg.1 | DNMT3A |
| TC02001658.hg.1 | -2.01 | JUC02013832.hg.1 | DNMT3A |
| TC02001658.hg.1 | -2.21 | PSR02026457.hg.1 | DNMT3A |

| | | | |
|-----------------|-------|------------------|--------|
| TC02001963.hg.1 | 5.74 | JUC02016322.hg.1 | TGFA |
| TC02001963.hg.1 | 4.85 | PSR02031288.hg.1 | TGFA |
| TC02001963.hg.1 | 4.2 | JUC02016328.hg.1 | TGFA |
| TC02001963.hg.1 | 4.17 | PSR02031287.hg.1 | TGFA |
| TC02001963.hg.1 | 4.14 | PSR02031284.hg.1 | TGFA |
| TC02001963.hg.1 | 3.79 | PSR02031290.hg.1 | TGFA |
| TC02001963.hg.1 | 3.6 | JUC02016319.hg.1 | TGFA |
| TC02001963.hg.1 | 3.39 | PSR02031278.hg.1 | TGFA |
| TC02001963.hg.1 | 2.78 | PSR02031280.hg.1 | TGFA |
| TC02001963.hg.1 | 2.4 | PSR02031283.hg.1 | TGFA |
| TC02001963.hg.1 | 2.22 | PSR02031285.hg.1 | TGFA |
| TC02001963.hg.1 | -2.04 | JUC02016323.hg.1 | TGFA |
| TC02001963.hg.1 | -2.09 | JUC02016320.hg.1 | TGFA |
| TC02001963.hg.1 | -2.5 | PSR02031273.hg.1 | TGFA |
| TC02001963.hg.1 | -2.76 | PSR02031270.hg.1 | TGFA |
| TC02001963.hg.1 | -3.63 | PSR02031281.hg.1 | TGFA |
| TC02001963.hg.1 | -3.74 | PSR02031271.hg.1 | TGFA |
| TC02001963.hg.1 | -3.88 | PSR02031272.hg.1 | TGFA |
| TC02001963.hg.1 | -4.17 | PSR02031274.hg.1 | TGFA |
| TC02001963.hg.1 | -5.9 | JUC02016326.hg.1 | TGFA |
| TC05000776.hg.1 | 5.74 | JUC05005730.hg.1 | RNF14 |
| TC05000776.hg.1 | 3.52 | JUC05005727.hg.1 | RNF14 |
| TC05000776.hg.1 | 3.05 | JUC05005716.hg.1 | RNF14 |
| TC05000776.hg.1 | 2.12 | PSR05011056.hg.1 | RNF14 |
| TC06000866.hg.1 | 5.73 | JUC06004739.hg.1 | LACE1 |
| TC06000866.hg.1 | 2.93 | JUC06004748.hg.1 | LACE1 |
| TC06000866.hg.1 | -2.17 | PSR06010111.hg.1 | LACE1 |
| TC12001300.hg.1 | 5.73 | JUC12009376.hg.1 | ABCC9 |
| TC12001300.hg.1 | 2.52 | PSR12016996.hg.1 | ABCC9 |
| TC12001300.hg.1 | 2.27 | JUC12009368.hg.1 | ABCC9 |
| TC12001300.hg.1 | 2.25 | JUC12009351.hg.1 | ABCC9 |
| TC12001300.hg.1 | 2.2 | JUC12009336.hg.1 | ABCC9 |
| TC12001300.hg.1 | 2.13 | PSR12016993.hg.1 | ABCC9 |
| TC12001300.hg.1 | -2.32 | JUC12009340.hg.1 | ABCC9 |
| TC12001300.hg.1 | -2.86 | JUC12009369.hg.1 | ABCC9 |
| TC12001300.hg.1 | -2.92 | JUC12009374.hg.1 | ABCC9 |
| TC12001300.hg.1 | -2.95 | JUC12009343.hg.1 | ABCC9 |
| TC12001300.hg.1 | -2.96 | JUC12009354.hg.1 | ABCC9 |
| TC12001300.hg.1 | -3.3 | JUC12009370.hg.1 | ABCC9 |
| TC16001012.hg.1 | 5.72 | JUC16008127.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.86 | JUC16008116.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.63 | JUC16008129.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.59 | JUC16008126.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.45 | PSR16014481.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.35 | JUC16008125.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.31 | PSR16014478.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.31 | JUC16008128.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.2 | PSR16014480.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | 2.07 | JUC16008123.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | -2.1 | PSR16014497.hg.1 | SEZ6L2 |
| TC16001012.hg.1 | -3.09 | JUC16008122.hg.1 | SEZ6L2 |
| TC02001031.hg.1 | 5.71 | PSR02015345.hg.1 | PDK1 |
| TC02001031.hg.1 | 5.58 | PSR02015344.hg.1 | PDK1 |
| TC02001031.hg.1 | 4.12 | PSR02015358.hg.1 | PDK1 |
| TC02001031.hg.1 | 3.86 | JUC02008197.hg.1 | PDK1 |
| TC02001031.hg.1 | 3.73 | PSR02015353.hg.1 | PDK1 |
| TC02001031.hg.1 | 3.63 | PSR02015342.hg.1 | PDK1 |
| TC02001031.hg.1 | 3.49 | JUC02008190.hg.1 | PDK1 |

| | | | |
|-----------------|-------|------------------|-------|
| TC02001031.hg.1 | 3.34 | JUC02008194.hg.1 | PDK1 |
| TC02001031.hg.1 | 3.17 | PSR02015372.hg.1 | PDK1 |
| TC02001031.hg.1 | 2.34 | JUC02008199.hg.1 | PDK1 |
| TC02001031.hg.1 | 2.08 | PSR02015347.hg.1 | PDK1 |
| TC02001031.hg.1 | -2.24 | PSR02015369.hg.1 | PDK1 |
| TC02001031.hg.1 | -3.32 | JUC02008185.hg.1 | PDK1 |
| TC02001031.hg.1 | -3.81 | JUC02008189.hg.1 | PDK1 |
| TC02001031.hg.1 | -4.52 | JUC02008180.hg.1 | PDK1 |
| TC06002238.hg.1 | 5.71 | JUC06013931.hg.1 | SYNE1 |
| TC06002238.hg.1 | 3.65 | PSR06027938.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.55 | JUC06014103.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.54 | JUC06014008.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.34 | JUC06014070.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.33 | PSR06028108.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.31 | PSR06027918.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.3 | PSR06028154.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.2 | PSR06027936.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.1 | PSR06027924.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2.03 | PSR06027985.hg.1 | SYNE1 |
| TC06002238.hg.1 | 2 | PSR06028044.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2 | JUC06013988.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.02 | JUC06014090.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.09 | PSR06028083.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.16 | PSR06028145.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.17 | PSR06028137.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.23 | JUC06013970.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.27 | JUC06014050.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.33 | JUC06014021.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.39 | PSR06028149.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.4 | JUC06013964.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.4 | JUC06014056.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.46 | PSR06028139.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.46 | PSR06028148.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.62 | JUC06014032.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.65 | JUC06014098.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.84 | JUC06013973.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.89 | PSR06028142.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.9 | JUC06013976.hg.1 | SYNE1 |
| TC06002238.hg.1 | -2.98 | PSR06028084.hg.1 | SYNE1 |
| TC06002238.hg.1 | -3.67 | JUC06014033.hg.1 | SYNE1 |
| TC06002238.hg.1 | -3.83 | JUC06014002.hg.1 | SYNE1 |
| TC06002238.hg.1 | -4.03 | JUC06013934.hg.1 | SYNE1 |
| TC06002238.hg.1 | -4.06 | PSR06028140.hg.1 | SYNE1 |
| TC06002238.hg.1 | -4.69 | PSR06028146.hg.1 | SYNE1 |
| TC06002238.hg.1 | -4.73 | JUC06013987.hg.1 | SYNE1 |
| TC07000735.hg.1 | 5.69 | JUC07005509.hg.1 | CPED1 |
| TC07000735.hg.1 | 5.11 | JUC07005518.hg.1 | CPED1 |
| TC07000735.hg.1 | 3.97 | JUC07005500.hg.1 | CPED1 |
| TC07000735.hg.1 | 3.63 | PSR07011743.hg.1 | CPED1 |
| TC07000735.hg.1 | 3.34 | PSR07011742.hg.1 | CPED1 |
| TC07000735.hg.1 | 3.04 | PSR07011764.hg.1 | CPED1 |
| TC07000735.hg.1 | 2.99 | PSR07011741.hg.1 | CPED1 |
| TC07000735.hg.1 | 2.96 | JUC07005510.hg.1 | CPED1 |
| TC07000735.hg.1 | 2.54 | PSR07011735.hg.1 | CPED1 |
| TC07000735.hg.1 | -2.52 | JUC07005508.hg.1 | CPED1 |
| TC07000735.hg.1 | -3 | JUC07005513.hg.1 | CPED1 |
| TC02002666.hg.1 | 5.68 | JUC02022400.hg.1 | CLK1 |
| TC02002666.hg.1 | 4.53 | JUC02022398.hg.1 | CLK1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC02002666.hg.1 | 4.03 | JUC02022392.hg.1 | CLK1 |
| TC02002666.hg.1 | 2.36 | JUC02022390.hg.1 | CLK1 |
| TC02002666.hg.1 | -2.06 | PSR02042811.hg.1 | CLK1 |
| TC02002666.hg.1 | -2.15 | PSR02042813.hg.1 | CLK1 |
| TC02002666.hg.1 | -2.35 | PSR02042814.hg.1 | CLK1 |
| TC02002666.hg.1 | -2.52 | PSR02042810.hg.1 | CLK1 |
| TC02002666.hg.1 | -3.63 | PSR02042807.hg.1 | CLK1 |
| TC07001883.hg.1 | 5.68 | JUC07014436.hg.1 | AKR1B1 |
| TC07001883.hg.1 | 3.99 | PSR07029203.hg.1 | AKR1B1 |
| TC07001883.hg.1 | 2.55 | PSR07029200.hg.1 | AKR1B1 |
| TC07001883.hg.1 | 2.45 | PSR07029214.hg.1 | AKR1B1 |
| TC07001883.hg.1 | 2.43 | PSR07029199.hg.1 | AKR1B1 |
| TC07001883.hg.1 | 2.39 | PSR07029192.hg.1 | AKR1B1 |
| TC07001883.hg.1 | 2.03 | PSR07029201.hg.1 | AKR1B1 |
| TC0Y000181.hg.1 | 5.68 | PSR0Y001782.hg.1 | NCRNA00185 |
| TC0Y000181.hg.1 | 4.99 | JUC0Y001135.hg.1 | NCRNA00185 |
| TC0Y000181.hg.1 | 4.29 | JUC0Y001125.hg.1 | NCRNA00185 |
| TC0Y000181.hg.1 | 2.52 | PSR0Y001781.hg.1 | NCRNA00185 |
| TC0Y000181.hg.1 | 2.09 | PSR0Y001775.hg.1 | NCRNA00185 |
| TC0Y000181.hg.1 | 2.02 | JUC0Y001127.hg.1 | NCRNA00185 |
| TC10000869.hg.1 | 5.68 | PSR10010519.hg.1 | INPP5F |
| TC10000869.hg.1 | 5.68 | JUC10005913.hg.1 | INPP5F |
| TC10000869.hg.1 | 4.91 | PSR10010518.hg.1 | INPP5F |
| TC10000869.hg.1 | 3.8 | PSR10010521.hg.1 | INPP5F |
| TC10000869.hg.1 | 3.5 | JUC10005912.hg.1 | INPP5F |
| TC10000869.hg.1 | 3.36 | PSR10010526.hg.1 | INPP5F |
| TC10000869.hg.1 | 3.34 | JUC10005916.hg.1 | INPP5F |
| TC10000869.hg.1 | 2.95 | JUC10005903.hg.1 | INPP5F |
| TC10000869.hg.1 | 2.93 | PSR10010520.hg.1 | INPP5F |
| TC10000869.hg.1 | 2.37 | PSR10010523.hg.1 | INPP5F |
| TC10000869.hg.1 | 2.24 | PSR10010524.hg.1 | INPP5F |
| TC10000869.hg.1 | 2.1 | JUC10005905.hg.1 | INPP5F |
| TC10000869.hg.1 | -2.25 | JUC10005899.hg.1 | INPP5F |
| TC10000869.hg.1 | -2.58 | JUC10005901.hg.1 | INPP5F |
| TC03001466.hg.1 | 5.67 | JUC03013014.hg.1 | TKT |
| TC03001466.hg.1 | 4.2 | PSR03026747.hg.1 | TKT |
| TC03001466.hg.1 | 4.08 | PSR03026725.hg.1 | TKT |
| TC03001466.hg.1 | 3.96 | PSR03026720.hg.1 | TKT |
| TC03001466.hg.1 | 3.86 | PSR03026722.hg.1 | TKT |
| TC03001466.hg.1 | 3.43 | PSR03026750.hg.1 | TKT |
| TC03001466.hg.1 | 2.86 | PSR03026710.hg.1 | TKT |
| TC03001466.hg.1 | 2.85 | PSR03026737.hg.1 | TKT |
| TC03001466.hg.1 | 2.84 | JUC03013026.hg.1 | TKT |
| TC03001466.hg.1 | 2.74 | PSR03026735.hg.1 | TKT |
| TC03001466.hg.1 | 2.68 | PSR03026757.hg.1 | TKT |
| TC03001466.hg.1 | 2.63 | PSR03026763.hg.1 | TKT |
| TC03001466.hg.1 | 2.46 | JUC03013021.hg.1 | TKT |
| TC03001466.hg.1 | 2.4 | JUC03013027.hg.1 | TKT |
| TC03001466.hg.1 | 2.29 | PSR03026740.hg.1 | TKT |
| TC03001466.hg.1 | 2.28 | JUC03013009.hg.1 | TKT |
| TC03001466.hg.1 | 2.25 | PSR03026736.hg.1 | TKT |
| TC03001466.hg.1 | 2.17 | JUC03013030.hg.1 | TKT |
| TC03001466.hg.1 | 2.01 | JUC03013010.hg.1 | TKT |
| TC0X001048.hg.1 | 5.67 | JUC0X007050.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 3.47 | JUC0X007058.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 3.22 | PSR0X014088.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 2.88 | PSR0X014056.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 2.81 | JUC0X007049.hg.1 | MAGED4, MA |

| | | | |
|-----------------|-------|------------------|-------------|
| TC0X001048.hg.1 | 2.42 | PSR0X014061.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 2.35 | JUC0X007047.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 2.23 | JUC0X007057.hg.1 | MAGED4, MA |
| TC0X001048.hg.1 | 2.2 | PSR0X014051.hg.1 | MAGED4, MA |
| TC0X001482.hg.1 | 5.66 | JUC0X009765.hg.1 | TMEM185A |
| TC0X001482.hg.1 | 2.33 | JUC0X009769.hg.1 | TMEM185A |
| TC0X001482.hg.1 | 2.26 | JUC0X009768.hg.1 | TMEM185A |
| TC0X001482.hg.1 | -2.32 | PSR0X019270.hg.1 | TMEM185A |
| TC01006309.hg.1 | 5.64 | JUC01040506.hg.1 | NBPF10, LOC |
| TC01006309.hg.1 | 2.26 | PSR01017103.hg.1 | NBPF10, LOC |
| TC01006309.hg.1 | 2.17 | JUC01039833.hg.1 | NBPF10, LOC |
| TC10000169.hg.1 | 5.64 | JUC10001084.hg.1 | KIAA1217 |
| TC10000169.hg.1 | 2.51 | PSR10002017.hg.1 | KIAA1217 |
| TC10000169.hg.1 | 2.33 | JUC10001066.hg.1 | KIAA1217 |
| TC10000169.hg.1 | 2.02 | JUC10001080.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.12 | PSR10001984.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.17 | JUC10001069.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.31 | JUC10001067.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.31 | JUC10001077.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.42 | JUC10001073.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.6 | JUC10001072.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -2.74 | JUC10001074.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.01 | PSR10002026.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.09 | JUC10001088.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.23 | JUC10001081.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.29 | JUC10001087.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.31 | JUC10001082.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.38 | PSR10001979.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.38 | PSR10001981.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -3.39 | PSR10001982.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -4.26 | PSR10002027.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -4.28 | PSR10001987.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -5.97 | JUC10001089.hg.1 | KIAA1217 |
| TC10000169.hg.1 | -6.16 | PSR10001986.hg.1 | KIAA1217 |
| TC01002327.hg.1 | 5.62 | JUC01019262.hg.1 | USP48 |
| TC01002327.hg.1 | 3.26 | JUC01019266.hg.1 | USP48 |
| TC01002327.hg.1 | 2.36 | PSR01035799.hg.1 | USP48 |
| TC01002327.hg.1 | 2.29 | JUC01019265.hg.1 | USP48 |
| TC01002327.hg.1 | -2.06 | PSR01035821.hg.1 | USP48 |
| TC01002327.hg.1 | -2.22 | JUC01019258.hg.1 | USP48 |
| TC01002327.hg.1 | -2.32 | JUC01019278.hg.1 | USP48 |
| TC01002327.hg.1 | -2.64 | JUC01019277.hg.1 | USP48 |
| TC04001585.hg.1 | 5.62 | JUC04011637.hg.1 | MAML3 |
| TC04001585.hg.1 | -2.12 | PSR04022103.hg.1 | MAML3 |
| TC04001585.hg.1 | -2.32 | JUC04011648.hg.1 | MAML3 |
| TC04001585.hg.1 | -2.32 | JUC04011649.hg.1 | MAML3 |
| TC04001585.hg.1 | -3.12 | JUC04011645.hg.1 | MAML3 |
| TC17001249.hg.1 | 5.61 | JUC17009494.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 4.6 | JUC17009499.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 3.54 | PSR17016757.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 3.52 | PSR17016739.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 3.39 | PSR17016746.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 3.31 | PSR17016731.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 3.1 | PSR17016747.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 3.08 | JUC17009512.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.94 | JUC17009510.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.93 | JUC17009511.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.92 | PSR17016732.hg.1 | SLC47A2 |

| | | | |
|-----------------|--------|------------------|---------|
| TC17001249.hg.1 | 2.88 | JUC17009503.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.72 | PSR17016750.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.69 | PSR17016730.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.57 | PSR17016756.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.56 | JUC17009497.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.47 | PSR17016740.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.45 | PSR17016755.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.39 | PSR17016738.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.29 | JUC17009496.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.21 | PSR17016744.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.15 | JUC17009504.hg.1 | SLC47A2 |
| TC17001249.hg.1 | 2.01 | PSR17016722.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -2.63 | JUC17009506.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -2.99 | JUC17009515.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -3.13 | PSR17016741.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -3.37 | PSR17016729.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -3.43 | JUC17009509.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -6.49 | JUC17009502.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -6.88 | PSR17016745.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -6.95 | JUC17009492.hg.1 | SLC47A2 |
| TC17001249.hg.1 | -14.24 | JUC17009501.hg.1 | SLC47A2 |
| TC6_mann_hap400 | 5.61 | JUC6_mann_hap400 | HLA-C |
| TC6_mann_hap400 | 2.94 | PSR6_mann_hap400 | HLA-C |
| TC6_mann_hap400 | 2.43 | JUC6_mann_hap400 | HLA-C |
| TC6_mann_hap400 | 2.42 | JUC6_mann_hap400 | HLA-C |
| TC6_mann_hap400 | -2.86 | JUC6_mann_hap400 | HLA-C |
| TC6_mann_hap400 | -3.05 | JUC6_mann_hap400 | HLA-C |
| TC01001264.hg.1 | 5.6 | JUC01010511.hg.1 | SLC27A3 |
| TC01001264.hg.1 | 2.1 | PSR01019328.hg.1 | SLC27A3 |
| TC06004055.hg.1 | 5.6 | JUC06020692.hg.1 | ROS1 |
| TC06004055.hg.1 | 4.19 | JUC06020681.hg.1 | ROS1 |
| TC06004055.hg.1 | 4.19 | JUC06020683.hg.1 | ROS1 |
| TC06004055.hg.1 | 3.73 | JUC06020665.hg.1 | ROS1 |
| TC06004055.hg.1 | 3.53 | JUC06020667.hg.1 | ROS1 |
| TC06004055.hg.1 | 3.21 | JUC06020661.hg.1 | ROS1 |
| TC06004055.hg.1 | 3.19 | JUC06020666.hg.1 | ROS1 |
| TC06004055.hg.1 | 3.17 | PSR06025669.hg.1 | ROS1 |
| TC06004055.hg.1 | 3.16 | PSR06025666.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.98 | JUC06020671.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.96 | JUC06020685.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.94 | PSR06025645.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.58 | JUC06020684.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.37 | PSR06025671.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.33 | PSR06025646.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.32 | JUC06020698.hg.1 | ROS1 |
| TC06004055.hg.1 | 2.23 | JUC06020668.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.01 | JUC06020688.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.05 | JUC06020674.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.11 | PSR06025650.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.19 | PSR06025629.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.22 | JUC06020659.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.23 | JUC06020675.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.24 | PSR06025665.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.36 | PSR06025636.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.49 | JUC06020697.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.51 | JUC06020696.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.58 | PSR06025622.hg.1 | ROS1 |
| TC06004055.hg.1 | -2.91 | JUC06020673.hg.1 | ROS1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC06004055.hg.1 | -2.95 | PSR06025620.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.18 | PSR06025624.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.21 | JUC06020654.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.36 | JUC06020662.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.43 | PSR06025625.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.49 | JUC06020676.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.8 | PSR06025633.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.81 | JUC06020690.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.88 | PSR06025630.hg.1 | ROS1 |
| TC06004055.hg.1 | -3.98 | JUC06020699.hg.1 | ROS1 |
| TC06004055.hg.1 | -4.28 | PSR06025627.hg.1 | ROS1 |
| TC06004055.hg.1 | -4.87 | PSR06025632.hg.1 | ROS1 |
| TC06004055.hg.1 | -5 | PSR06025635.hg.1 | ROS1 |
| TC06004055.hg.1 | -5.34 | PSR06025621.hg.1 | ROS1 |
| TC06004055.hg.1 | -5.42 | PSR06025623.hg.1 | ROS1 |
| TC06004055.hg.1 | -6.09 | JUC06020656.hg.1 | ROS1 |
| TC07000782.hg.1 | 5.6 | PSR07012309.hg.1 | CALU |
| TC07000782.hg.1 | -2.13 | JUC07005775.hg.1 | CALU |
| TC22000223.hg.1 | 5.6 | JUC22001505.hg.1 | RNF185 |
| TC22000223.hg.1 | 2.76 | PSR22004215.hg.1 | RNF185 |
| TC22000223.hg.1 | 2.4 | JUC22001501.hg.1 | RNF185 |
| TC06000185.hg.1 | 5.58 | JUC06000897.hg.1 | BTN2A2 |
| TC06000185.hg.1 | -2.38 | PSR06001836.hg.1 | BTN2A2 |
| TC02002194.hg.1 | 5.57 | PSR02035538.hg.1 | MALL |
| TC02002194.hg.1 | 4.85 | JUC02018342.hg.1 | MALL |
| TC02002194.hg.1 | 3.32 | PSR02035540.hg.1 | MALL |
| TC02002194.hg.1 | 3.11 | PSR02035541.hg.1 | MALL |
| TC02002194.hg.1 | 3 | PSR02035542.hg.1 | MALL |
| TC02002194.hg.1 | -2.12 | PSR02035539.hg.1 | MALL |
| TC02002194.hg.1 | -5.65 | JUC02018338.hg.1 | MALL |
| TC05000384.hg.1 | 5.57 | JUC05002928.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 3.05 | JUC05002917.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.59 | PSR05005405.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.38 | PSR05005377.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.27 | JUC05002918.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.26 | PSR05005410.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.17 | PSR05005404.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.11 | PSR05005384.hg.1 | SCAMP1 |
| TC05000384.hg.1 | 2.02 | PSR05005409.hg.1 | SCAMP1 |
| TC6_apd_hap1000 | 5.56 | JUC6_apd_hap1000 | HLA-DPA1 |
| TC6_apd_hap1000 | 4.03 | JUC6_apd_hap1000 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.67 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.49 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.32 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.31 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.25 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.08 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | 2.06 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | -2.23 | PSR6_apd_hap1001 | HLA-DPA1 |
| TC6_apd_hap1000 | -4.18 | JUC6_apd_hap1000 | HLA-DPA1 |
| TC6_dbb_hap3000 | 5.56 | JUC6_dbb_hap3001 | HLA-DPA1 |
| TC6_dbb_hap3000 | 4.03 | JUC6_dbb_hap3001 | HLA-DPA1 |
| TC6_dbb_hap3000 | 3.09 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | 2.67 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | 2.32 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | 2.31 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | 2.25 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | 2.08 | PSR6_dbb_hap3003 | HLA-DPA1 |

| | | | |
|------------------|-------|-------------------|----------|
| TC6_dbb_hap3000 | 2.06 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | -2.23 | PSR6_dbb_hap3003 | HLA-DPA1 |
| TC6_dbb_hap3000 | -4.18 | JUC6_dbb_hap3001 | HLA-DPA1 |
| TC6_mann_hap400 | 5.56 | JUC6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 4.03 | JUC6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 3.33 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 3.09 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 2.67 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 2.32 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 2.31 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 2.08 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | 2.06 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | -2.23 | PSR6_mann_hap400 | HLA-DPA1 |
| TC6_mann_hap400 | -4.18 | JUC6_mann_hap400 | HLA-DPA1 |
| TC6_mcf_hap5000 | 5.56 | JUC6_mcf_hap5001 | HLA-DPA1 |
| TC6_mcf_hap5000 | 4.03 | JUC6_mcf_hap5001 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.67 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.49 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.32 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.31 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.25 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.08 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | 2.06 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | -2.23 | PSR6_mcf_hap5003 | HLA-DPA1 |
| TC6_mcf_hap5000 | -4.18 | JUC6_mcf_hap5001 | HLA-DPA1 |
| TC6_mcf_hap5000 | 5.56 | JUC6_mcf_hap5001 | HLA-C |
| TC6_mcf_hap5000 | 2.41 | JUC6_mcf_hap5001 | HLA-C |
| TC6_mcf_hap5000 | 2.39 | JUC6_mcf_hap5001 | HLA-C |
| TC6_mcf_hap5000 | 2.16 | PSR6_mcf_hap5002 | HLA-C |
| TC6_mcf_hap5000 | -2.89 | JUC6_mcf_hap5001 | HLA-C |
| TC6_qbl_hap6000 | 5.56 | JUC6_qbl_hap6001 | HLA-DPA1 |
| TC6_qbl_hap6000 | 4.03 | JUC6_qbl_hap6001 | HLA-DPA1 |
| TC6_qbl_hap6000 | 3.33 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | 3.09 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | 2.67 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | 2.32 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | 2.31 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | 2.08 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | 2.06 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | -2.23 | PSR6_qbl_hap6003 | HLA-DPA1 |
| TC6_qbl_hap6000 | -4.18 | JUC6_qbl_hap6001 | HLA-DPA1 |
| TC6_ssto_hap7000 | 5.56 | JUC6_ssto_hap7001 | HLA-DPA1 |
| TC6_ssto_hap7000 | 4.03 | JUC6_ssto_hap7001 | HLA-DPA1 |
| TC6_ssto_hap7000 | 3.09 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | 2.67 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | 2.32 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | 2.31 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | 2.25 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | 2.08 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | 2.06 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | -2.23 | PSR6_ssto_hap7003 | HLA-DPA1 |
| TC6_ssto_hap7000 | -4.18 | JUC6_ssto_hap7001 | HLA-DPA1 |
| TC07001047.hg.1 | 5.55 | JUC07007831.hg.1 | RNF32 |
| TC07001047.hg.1 | 2.46 | PSR07016158.hg.1 | RNF32 |
| TC07001047.hg.1 | 2.22 | PSR07016120.hg.1 | RNF32 |
| TC07001047.hg.1 | 2.04 | PSR07016145.hg.1 | RNF32 |
| TC0X001291.hg.1 | 5.55 | JUC0X008899.hg.1 | LRCH2 |
| TC0X001291.hg.1 | 2.66 | JUC0X008891.hg.1 | LRCH2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC0X001291.hg.1 | 2.32 | PSR0X017483.hg.1 | LRCH2 |
| TC0X001291.hg.1 | -2.16 | JUC0X008896.hg.1 | LRCH2 |
| TC0X001291.hg.1 | -2.2 | JUC0X008902.hg.1 | LRCH2 |
| TC0X001291.hg.1 | -2.99 | JUC0X008887.hg.1 | LRCH2 |
| TC07000116.hg.1 | 5.54 | JUC07000847.hg.1 | HDAC9 |
| TC07000116.hg.1 | 5.49 | PSR07001771.hg.1 | HDAC9 |
| TC07000116.hg.1 | 2.63 | PSR07001793.hg.1 | HDAC9 |
| TC07000116.hg.1 | 2.56 | JUC07000846.hg.1 | HDAC9 |
| TC07000116.hg.1 | 2.41 | JUC07000801.hg.1 | HDAC9 |
| TC07000116.hg.1 | 2.32 | PSR07001767.hg.1 | HDAC9 |
| TC07000116.hg.1 | 2.08 | PSR07001777.hg.1 | HDAC9 |
| TC07000116.hg.1 | 2.07 | PSR07001785.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.08 | JUC07000797.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.1 | PSR07001856.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.21 | PSR07001847.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.31 | PSR07001858.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.59 | PSR07001852.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.65 | JUC07000802.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.72 | JUC07000823.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.79 | PSR07001851.hg.1 | HDAC9 |
| TC07000116.hg.1 | -2.86 | PSR07001859.hg.1 | HDAC9 |
| TC07000116.hg.1 | -4 | JUC07000810.hg.1 | HDAC9 |
| TC07000116.hg.1 | -4.06 | PSR07001821.hg.1 | HDAC9 |
| TC07000116.hg.1 | -4.16 | PSR07001860.hg.1 | HDAC9 |
| TC07000116.hg.1 | -6.51 | JUC07000793.hg.1 | HDAC9 |
| TC03001666.hg.1 | 5.53 | JUC03014914.hg.1 | KIAA1407 |
| TC03001666.hg.1 | 3.32 | JUC03014926.hg.1 | KIAA1407 |
| TC03001666.hg.1 | 3.03 | PSR03030084.hg.1 | KIAA1407 |
| TC03001666.hg.1 | 2.98 | PSR03030071.hg.1 | KIAA1407 |
| TC03001666.hg.1 | 2.11 | JUC03014908.hg.1 | KIAA1407 |
| TC10001576.hg.1 | 5.52 | JUC10011746.hg.1 | LOXL4 |
| TC10001576.hg.1 | 3.66 | JUC10011749.hg.1 | LOXL4 |
| TC10001576.hg.1 | 3.16 | JUC10011742.hg.1 | LOXL4 |
| TC10001576.hg.1 | 3.13 | JUC10011751.hg.1 | LOXL4 |
| TC10001576.hg.1 | 2.78 | JUC10011753.hg.1 | LOXL4 |
| TC10001576.hg.1 | 2.64 | JUC10011755.hg.1 | LOXL4 |
| TC10001576.hg.1 | 2.58 | JUC10011750.hg.1 | LOXL4 |
| TC10001576.hg.1 | 2.54 | JUC10011743.hg.1 | LOXL4 |
| TC10001576.hg.1 | 2.49 | PSR10020182.hg.1 | LOXL4 |
| TC10001576.hg.1 | 2.37 | PSR10020192.hg.1 | LOXL4 |
| TC10001576.hg.1 | -2.27 | JUC10011745.hg.1 | LOXL4 |
| TC10001576.hg.1 | -2.93 | PSR10020196.hg.1 | LOXL4 |
| TC11001132.hg.1 | 5.52 | JUC11007750.hg.1 | VWA5A |
| TC11001132.hg.1 | 3.38 | JUC11007747.hg.1 | VWA5A |
| TC11001132.hg.1 | 3.23 | JUC11007759.hg.1 | VWA5A |
| TC11001132.hg.1 | 3.13 | PSR11014315.hg.1 | VWA5A |
| TC11001132.hg.1 | 2.63 | PSR11014338.hg.1 | VWA5A |
| TC11001132.hg.1 | 2.45 | JUC11007753.hg.1 | VWA5A |
| TC11001132.hg.1 | 2.38 | PSR11014342.hg.1 | VWA5A |
| TC11001132.hg.1 | 2.24 | JUC11007757.hg.1 | VWA5A |
| TC11001132.hg.1 | 2.13 | PSR11014339.hg.1 | VWA5A |
| TC11001132.hg.1 | -2.31 | JUC11007763.hg.1 | VWA5A |
| TC11001132.hg.1 | -2.59 | JUC11007755.hg.1 | VWA5A |
| TC02001347.hg.1 | 5.51 | JUC02011201.hg.1 | SGPP2 |
| TC02001347.hg.1 | 2.14 | JUC02011198.hg.1 | SGPP2 |
| TC02001347.hg.1 | -2.25 | PSR02021024.hg.1 | SGPP2 |
| TC0X001186.hg.1 | 5.51 | JUC0X008128.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 4.17 | JUC0X008123.hg.1 | RPS6KA6 |

| | | | |
|-----------------|-------|------------------|---------|
| TC0X001186.hg.1 | 4.13 | JUC0X008109.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 3.34 | PSR0X016023.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 3.3 | PSR0X016025.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 3.22 | PSR0X016020.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 2.87 | PSR0X016022.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 2.66 | JUC0X008124.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 2.41 | PSR0X016024.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 2.4 | JUC0X008111.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | 2.22 | PSR0X016015.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | -2.26 | PSR0X016011.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | -3.05 | JUC0X008131.hg.1 | RPS6KA6 |
| TC0X001186.hg.1 | -3.73 | PSR0X016006.hg.1 | RPS6KA6 |
| TC02000231.hg.1 | 5.5 | JUC02001805.hg.1 | VIT |
| TC02000231.hg.1 | 2.16 | PSR02003442.hg.1 | VIT |
| TC02000231.hg.1 | 2.09 | PSR02003420.hg.1 | VIT |
| TC02000231.hg.1 | 2.07 | PSR02003440.hg.1 | VIT |
| TC02000231.hg.1 | -2.18 | PSR02003424.hg.1 | VIT |
| TC02000231.hg.1 | -2.54 | JUC02001798.hg.1 | VIT |
| TC02000231.hg.1 | -2.62 | PSR02003435.hg.1 | VIT |
| TC02000231.hg.1 | -2.77 | PSR02003426.hg.1 | VIT |
| TC22000863.hg.1 | 5.5 | JUC22006061.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 3.87 | JUC22006072.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 3.44 | JUC22006074.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 3.09 | PSR22014593.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.93 | PSR22014594.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.77 | JUC22006041.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.71 | PSR22014617.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.67 | JUC22006044.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.42 | JUC22006085.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.2 | PSR22014599.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.11 | PSR22014622.hg.1 | EFCAB6 |
| TC22000863.hg.1 | 2.1 | PSR22014597.hg.1 | EFCAB6 |
| TC10000738.hg.1 | 5.49 | JUC10004847.hg.1 | BTRC |
| TC10000738.hg.1 | 2.98 | PSR10008705.hg.1 | BTRC |
| TC10000738.hg.1 | 2.48 | PSR10008697.hg.1 | BTRC |
| TC10000738.hg.1 | 2.28 | JUC10004835.hg.1 | BTRC |
| TC10000738.hg.1 | -2.96 | JUC10004838.hg.1 | BTRC |
| TC01000702.hg.1 | 5.48 | JUC01005776.hg.1 | NFIA |
| TC01000702.hg.1 | 2.73 | JUC01005781.hg.1 | NFIA |
| TC01000702.hg.1 | 2.43 | JUC01005779.hg.1 | NFIA |
| TC01000702.hg.1 | 2.36 | JUC01005764.hg.1 | NFIA |
| TC01000702.hg.1 | -2.62 | PSR01011201.hg.1 | NFIA |
| TC01000702.hg.1 | -2.64 | PSR01011193.hg.1 | NFIA |
| TC06001579.hg.1 | 5.47 | JUC06008998.hg.1 | COL11A2 |
| TC06001579.hg.1 | 2.7 | JUC06009011.hg.1 | COL11A2 |
| TC06001579.hg.1 | 2.54 | JUC06008991.hg.1 | COL11A2 |
| TC06001579.hg.1 | 2.49 | JUC06009017.hg.1 | COL11A2 |
| TC06001579.hg.1 | 2.22 | JUC06009039.hg.1 | COL11A2 |
| TC06001579.hg.1 | 2.1 | JUC06009031.hg.1 | COL11A2 |
| TC06001579.hg.1 | -2.14 | PSR06018959.hg.1 | COL11A2 |
| TC06001579.hg.1 | -2.18 | JUC06009022.hg.1 | COL11A2 |
| TC06001579.hg.1 | -2.21 | PSR06018978.hg.1 | COL11A2 |
| TC06001579.hg.1 | -2.46 | JUC06008992.hg.1 | COL11A2 |
| TC06001579.hg.1 | -2.77 | JUC06009063.hg.1 | COL11A2 |
| TC06001579.hg.1 | -2.85 | JUC06009047.hg.1 | COL11A2 |
| TC06001579.hg.1 | -5.6 | JUC06009032.hg.1 | COL11A2 |
| TC18000548.hg.1 | 5.47 | PSR18005703.hg.1 | CCBE1 |
| TC18000548.hg.1 | 5.07 | PSR18005702.hg.1 | CCBE1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC18000548.hg.1 | 3.9 | PSR18005696.hg.1 | CCBE1 |
| TC18000548.hg.1 | 3.38 | JUC18003841.hg.1 | CCBE1 |
| TC18000548.hg.1 | 2.91 | PSR18005693.hg.1 | CCBE1 |
| TC18000548.hg.1 | 2.13 | PSR18005689.hg.1 | CCBE1 |
| TC18000548.hg.1 | -2.41 | PSR18005699.hg.1 | CCBE1 |
| TC18000548.hg.1 | -2.93 | JUC18003840.hg.1 | CCBE1 |
| TC08000383.hg.1 | 5.46 | JUC08002692.hg.1 | LYN |
| TC08000383.hg.1 | 2.9 | PSR08005437.hg.1 | LYN |
| TC08000383.hg.1 | 2.75 | PSR08005436.hg.1 | LYN |
| TC08000383.hg.1 | 2.64 | JUC08002695.hg.1 | LYN |
| TC08000383.hg.1 | 2.55 | PSR08005438.hg.1 | LYN |
| TC08000383.hg.1 | 2.27 | PSR08005439.hg.1 | LYN |
| TC08000383.hg.1 | 2.14 | PSR08005454.hg.1 | LYN |
| TC08000383.hg.1 | -2.76 | JUC08002705.hg.1 | LYN |
| TC0X000606.hg.1 | 5.46 | JUC0X003998.hg.1 | STAG2 |
| TC0X000606.hg.1 | 2.75 | PSR0X007952.hg.1 | STAG2 |
| TC0X000606.hg.1 | 2.67 | JUC0X003994.hg.1 | STAG2 |
| TC0X000606.hg.1 | 2.05 | PSR0X007974.hg.1 | STAG2 |
| TC0X000606.hg.1 | -2 | JUC0X004020.hg.1 | STAG2 |
| TC0X000606.hg.1 | -2.22 | JUC0X003996.hg.1 | STAG2 |
| TC0X000606.hg.1 | -2.23 | JUC0X003995.hg.1 | STAG2 |
| TC10001340.hg.1 | 5.46 | JUC10009865.hg.1 | DNAJC12 |
| TC10001340.hg.1 | 4 | JUC10009872.hg.1 | DNAJC12 |
| TC10001340.hg.1 | 3.69 | JUC10009869.hg.1 | DNAJC12 |
| TC10001340.hg.1 | 2.03 | PSR10016887.hg.1 | DNAJC12 |
| TC10001340.hg.1 | -2.09 | JUC10009871.hg.1 | DNAJC12 |
| TC10001340.hg.1 | -2.66 | PSR10016885.hg.1 | DNAJC12 |
| TC10001340.hg.1 | -3.5 | PSR10016902.hg.1 | DNAJC12 |
| TC10001340.hg.1 | -3.85 | PSR10016897.hg.1 | DNAJC12 |
| TC10001340.hg.1 | -3.97 | PSR10016891.hg.1 | DNAJC12 |
| TC21000249.hg.1 | 5.45 | JUC21001614.hg.1 | COL6A1 |
| TC21000249.hg.1 | 2.43 | PSR21003049.hg.1 | COL6A1 |
| TC21000249.hg.1 | 2.3 | PSR21003011.hg.1 | COL6A1 |
| TC21000249.hg.1 | 2.18 | PSR21003041.hg.1 | COL6A1 |
| TC21000249.hg.1 | 2.16 | PSR21003013.hg.1 | COL6A1 |
| TC21000476.hg.1 | 5.44 | JUC21002950.hg.1 | RIPK4 |
| TC21000476.hg.1 | 3.47 | PSR21005724.hg.1 | RIPK4 |
| TC21000476.hg.1 | 2.33 | PSR21005721.hg.1 | RIPK4 |
| TC21000476.hg.1 | 2.13 | JUC21002943.hg.1 | RIPK4 |
| TC21000476.hg.1 | -2.13 | JUC21002948.hg.1 | RIPK4 |
| TC21000476.hg.1 | -2.42 | PSR21005730.hg.1 | RIPK4 |
| TC21000476.hg.1 | -3.08 | PSR21005729.hg.1 | RIPK4 |
| TC21000476.hg.1 | -3.25 | JUC21002952.hg.1 | RIPK4 |
| TC21000476.hg.1 | -6.2 | PSR21005723.hg.1 | RIPK4 |
| TC21000476.hg.1 | -12.8 | JUC21002955.hg.1 | RIPK4 |
| TC0X000362.hg.1 | 5.42 | JUC0X002276.hg.1 | EFNB1 |
| TC0X000362.hg.1 | 5 | PSR0X004705.hg.1 | EFNB1 |
| TC0X000362.hg.1 | 3.16 | JUC0X002274.hg.1 | EFNB1 |
| TC0X000362.hg.1 | 3.11 | JUC0X002279.hg.1 | EFNB1 |
| TC0X000362.hg.1 | 3.1 | PSR0X004708.hg.1 | EFNB1 |
| TC0X000362.hg.1 | -3.25 | JUC0X002273.hg.1 | EFNB1 |
| TC0X000362.hg.1 | -6.3 | JUC0X002275.hg.1 | EFNB1 |
| TC16001088.hg.1 | 5.41 | PSR16015289.hg.1 | NETO2 |
| TC16001088.hg.1 | 5.15 | PSR16015288.hg.1 | NETO2 |
| TC16001088.hg.1 | 2.54 | JUC16008539.hg.1 | NETO2 |
| TC16001088.hg.1 | 2.08 | JUC16008532.hg.1 | NETO2 |
| TC19001584.hg.1 | 5.41 | JUC19012371.hg.1 | PSG9 |
| TC19001584.hg.1 | 3.09 | PSR19021695.hg.1 | PSG9 |

| | | | |
|-----------------|-------|------------------|----------|
| TC19001584.hg.1 | 3.04 | JUC19012370.hg.1 | PSG9 |
| TC19001584.hg.1 | 2.94 | JUC19012369.hg.1 | PSG9 |
| TC19001584.hg.1 | 2.79 | JUC19012372.hg.1 | PSG9 |
| TC19001584.hg.1 | 2.52 | PSR19021693.hg.1 | PSG9 |
| TC19001584.hg.1 | 2.14 | PSR19021706.hg.1 | PSG9 |
| TC19001584.hg.1 | 2.05 | PSR19021699.hg.1 | PSG9 |
| TC19001584.hg.1 | -2.72 | PSR19021698.hg.1 | PSG9 |
| TC19001584.hg.1 | -3.19 | PSR19021701.hg.1 | PSG9 |
| TC19001584.hg.1 | -4.73 | JUC19012376.hg.1 | PSG9 |
| TC19001584.hg.1 | -5.41 | JUC19012377.hg.1 | PSG9 |
| TC6_mann_hap400 | 5.41 | PSR6_mann_hap400 | MICA |
| TC6_mann_hap400 | 3.21 | PSR6_mann_hap400 | MICA |
| TC6_mann_hap400 | 3.01 | JUC6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.82 | PSR6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.74 | JUC6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.47 | JUC6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.46 | JUC6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.44 | PSR6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.11 | JUC6_mann_hap400 | MICA |
| TC6_mann_hap400 | 2.1 | JUC6_mann_hap400 | MICA |
| TC11002275.hg.1 | 5.4 | JUC11014533.hg.1 | ARHGAP20 |
| TC11002275.hg.1 | 2.82 | PSR11027288.hg.1 | ARHGAP20 |
| TC11002275.hg.1 | 2.19 | PSR11027291.hg.1 | ARHGAP20 |
| TC11002275.hg.1 | 2.08 | PSR11027289.hg.1 | ARHGAP20 |
| TC01000794.hg.1 | 5.39 | JUC01006636.hg.1 | IFI44L |
| TC01000794.hg.1 | 3.11 | JUC01006645.hg.1 | IFI44L |
| TC01000794.hg.1 | -2.03 | PSR01012681.hg.1 | IFI44L |
| TC06004058.hg.1 | 5.39 | PSR06028998.hg.1 | RNASET2 |
| TC06004058.hg.1 | 4.18 | JUC06020771.hg.1 | RNASET2 |
| TC06004058.hg.1 | 3.27 | PSR06029026.hg.1 | RNASET2 |
| TC06004058.hg.1 | 3.19 | PSR06029015.hg.1 | RNASET2 |
| TC06004058.hg.1 | 3.01 | PSR06029016.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.75 | PSR06029029.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.74 | JUC06020749.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.67 | PSR06029006.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.66 | PSR06028982.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.54 | PSR06029027.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.44 | PSR06029018.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.42 | JUC06020773.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.36 | PSR06028977.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.35 | PSR06028983.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.35 | JUC06020776.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.26 | PSR06029004.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.21 | PSR06028985.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.19 | JUC06020750.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.19 | JUC06020770.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.12 | JUC06020761.hg.1 | RNASET2 |
| TC06004058.hg.1 | 2.03 | JUC06020751.hg.1 | RNASET2 |
| TC01002815.hg.1 | 5.38 | JUC01023457.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.84 | PSR01043773.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.61 | JUC01023465.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.53 | PSR01043780.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.46 | PSR01043821.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.39 | PSR01043786.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.39 | PSR01043795.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.25 | PSR01043789.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.12 | PSR01043820.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.11 | PSR01043802.hg.1 | TTLL7 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC01002815.hg.1 | 2.03 | PSR01043797.hg.1 | TTLL7 |
| TC01002815.hg.1 | 2.01 | PSR01043809.hg.1 | TTLL7 |
| TC01002815.hg.1 | -2.12 | JUC01023455.hg.1 | TTLL7 |
| TC01002815.hg.1 | -2.18 | JUC01023464.hg.1 | TTLL7 |
| TC02000723.hg.1 | 5.38 | JUC02005935.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.01 | PSR02011238.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.02 | JUC02005937.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.06 | PSR02011250.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.28 | JUC02005946.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.37 | PSR02011239.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.52 | PSR02011221.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.72 | PSR02011235.hg.1 | LOC654433 |
| TC02000723.hg.1 | -2.98 | JUC02005943.hg.1 | LOC654433 |
| TC02000723.hg.1 | -3.24 | JUC02005934.hg.1 | LOC654433 |
| TC02000723.hg.1 | -3.88 | JUC02005944.hg.1 | LOC654433 |
| TC06000544.hg.1 | 5.38 | PSR06005959.hg.1 | RNF8 |
| TC06000544.hg.1 | 2.3 | JUC06002482.hg.1 | RNF8 |
| TC06000544.hg.1 | 2.25 | JUC06002478.hg.1 | RNF8 |
| TC19000796.hg.1 | 5.36 | JUC19006555.hg.1 | ZNF610 |
| TC19000796.hg.1 | -2.27 | PSR19011194.hg.1 | ZNF610 |
| TC06000999.hg.1 | 5.35 | PSR06011772.hg.1 | EYA4 |
| TC06000999.hg.1 | 5.29 | JUC06005697.hg.1 | EYA4 |
| TC06000999.hg.1 | 4.95 | JUC06005713.hg.1 | EYA4 |
| TC06000999.hg.1 | 3.91 | JUC06005716.hg.1 | EYA4 |
| TC06000999.hg.1 | 3.33 | PSR06011773.hg.1 | EYA4 |
| TC06000999.hg.1 | 3.25 | JUC06005703.hg.1 | EYA4 |
| TC06000999.hg.1 | 2.46 | PSR06011803.hg.1 | EYA4 |
| TC06000999.hg.1 | 2.3 | JUC06005706.hg.1 | EYA4 |
| TC06000999.hg.1 | 2.23 | PSR06011769.hg.1 | EYA4 |
| TC06000999.hg.1 | 2.15 | PSR06011806.hg.1 | EYA4 |
| TC06000999.hg.1 | 2.02 | JUC06005698.hg.1 | EYA4 |
| TC06000999.hg.1 | -2.22 | PSR06011779.hg.1 | EYA4 |
| TC06000999.hg.1 | -2.46 | PSR06011788.hg.1 | EYA4 |
| TC06000999.hg.1 | -2.5 | PSR06011774.hg.1 | EYA4 |
| TC06000999.hg.1 | -2.69 | JUC06005714.hg.1 | EYA4 |
| TC06000999.hg.1 | -2.75 | PSR06011787.hg.1 | EYA4 |
| TC06000999.hg.1 | -3.09 | JUC06005721.hg.1 | EYA4 |
| TC06000999.hg.1 | -3.39 | PSR06011794.hg.1 | EYA4 |
| TC06000999.hg.1 | -3.71 | PSR06011771.hg.1 | EYA4 |
| TC06000999.hg.1 | -3.84 | PSR06011799.hg.1 | EYA4 |
| TC06000999.hg.1 | -3.92 | PSR06011763.hg.1 | EYA4 |
| TC06000999.hg.1 | -4.07 | PSR06011798.hg.1 | EYA4 |
| TC06000999.hg.1 | -4.27 | PSR06011792.hg.1 | EYA4 |
| TC06000999.hg.1 | -4.31 | JUC06005694.hg.1 | EYA4 |
| TC06000999.hg.1 | -4.33 | PSR06011795.hg.1 | EYA4 |
| TC06000999.hg.1 | -4.52 | PSR06011764.hg.1 | EYA4 |
| TC06000999.hg.1 | -5 | PSR06011793.hg.1 | EYA4 |
| TC06000999.hg.1 | -6.62 | PSR06011768.hg.1 | EYA4 |
| TC06000999.hg.1 | -6.93 | JUC06005708.hg.1 | EYA4 |
| TC06000999.hg.1 | -7.6 | JUC06005723.hg.1 | EYA4 |
| TC6_mann_hap400 | 5.35 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | 2.64 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | 2.49 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | 2.43 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | 2.17 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | 2.06 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.02 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.09 | PSR6_mann_hap400 | COL11A2 |

| | | | |
|------------------|-------|-------------------|---------|
| TC6_mann_hap400 | -2.19 | PSR6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.23 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.26 | PSR6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.52 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.83 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -2.91 | JUC6_mann_hap400 | COL11A2 |
| TC6_mann_hap400 | -5.73 | JUC6_mann_hap400 | COL11A2 |
| TC02000952.hg.1 | 5.34 | JUC02007459.hg.1 | GPD2 |
| TC02000952.hg.1 | 3.55 | JUC02007473.hg.1 | GPD2 |
| TC02000952.hg.1 | 3.06 | PSR02013883.hg.1 | GPD2 |
| TC02000952.hg.1 | 2.67 | PSR02013922.hg.1 | GPD2 |
| TC02000952.hg.1 | 2.52 | PSR02013878.hg.1 | GPD2 |
| TC02000952.hg.1 | 2.3 | PSR02013893.hg.1 | GPD2 |
| TC02000952.hg.1 | 2.18 | PSR02013885.hg.1 | GPD2 |
| TC02000952.hg.1 | -2.59 | JUC02007451.hg.1 | GPD2 |
| TC02000952.hg.1 | -2.74 | JUC02007462.hg.1 | GPD2 |
| TC02000952.hg.1 | -3.75 | JUC02007455.hg.1 | GPD2 |
| TC07001617.hg.1 | 5.34 | PSR07024581.hg.1 | PON2 |
| TC07001617.hg.1 | 4.89 | JUC07012234.hg.1 | PON2 |
| TC07001617.hg.1 | 2.49 | PSR07024589.hg.1 | PON2 |
| TC07001617.hg.1 | 2.22 | JUC07012228.hg.1 | PON2 |
| TC07001617.hg.1 | 2.02 | PSR07024573.hg.1 | PON2 |
| TC07001617.hg.1 | -2.16 | PSR07024583.hg.1 | PON2 |
| TC07001617.hg.1 | -2.17 | JUC07012236.hg.1 | PON2 |
| TC6_ssto_hap7000 | 5.34 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | 2.63 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | 2.48 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | 2.42 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | 2.17 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | 2.05 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | -2.02 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | -2.19 | PSR6_ssto_hap7003 | COL11A2 |
| TC6_ssto_hap7000 | -2.23 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | -2.26 | PSR6_ssto_hap7003 | COL11A2 |
| TC6_ssto_hap7000 | -2.52 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | -2.84 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | -2.92 | JUC6_ssto_hap7001 | COL11A2 |
| TC6_ssto_hap7000 | -5.74 | JUC6_ssto_hap7001 | COL11A2 |
| TC07000525.hg.1 | 5.32 | PSR07007506.hg.1 | ADAM22 |
| TC07000525.hg.1 | 5.24 | JUC07003618.hg.1 | ADAM22 |
| TC07000525.hg.1 | 4.96 | JUC07003612.hg.1 | ADAM22 |
| TC07000525.hg.1 | 4.65 | PSR07007501.hg.1 | ADAM22 |
| TC07000525.hg.1 | 3.23 | JUC07003631.hg.1 | ADAM22 |
| TC07000525.hg.1 | 3.15 | PSR07007551.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.98 | PSR07007505.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.47 | JUC07003607.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.11 | PSR07007538.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.09 | JUC07003594.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.06 | JUC07003611.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.05 | JUC07003627.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2.01 | PSR07007502.hg.1 | ADAM22 |
| TC07000525.hg.1 | 2 | PSR07007548.hg.1 | ADAM22 |
| TC07000525.hg.1 | -2.12 | JUC07003630.hg.1 | ADAM22 |
| TC07000525.hg.1 | -2.32 | JUC07003623.hg.1 | ADAM22 |
| TC07000525.hg.1 | -2.35 | JUC07003621.hg.1 | ADAM22 |
| TC07000525.hg.1 | -2.38 | PSR07007529.hg.1 | ADAM22 |
| TC07000525.hg.1 | -2.7 | PSR07007542.hg.1 | ADAM22 |
| TC07000525.hg.1 | -3.05 | PSR07007519.hg.1 | ADAM22 |

| | | | |
|-----------------|--------|-------------------|-------------|
| TC07000525.hg.1 | -3.06 | JUC07003605.hg.1 | ADAM22 |
| TC07000525.hg.1 | -3.16 | JUC07003593.hg.1 | ADAM22 |
| TC07000525.hg.1 | -3.3 | PSR07007518.hg.1 | ADAM22 |
| TC07000525.hg.1 | -3.41 | JUC07003616.hg.1 | ADAM22 |
| TC07000525.hg.1 | -3.85 | PSR07007522.hg.1 | ADAM22 |
| TC07000525.hg.1 | -3.98 | JUC07003628.hg.1 | ADAM22 |
| TC07000525.hg.1 | -4 | PSR07007513.hg.1 | ADAM22 |
| TC07000525.hg.1 | -4.12 | JUC07003615.hg.1 | ADAM22 |
| TC07000525.hg.1 | -4.38 | PSR07007499.hg.1 | ADAM22 |
| TC07000525.hg.1 | -5.11 | JUC07003619.hg.1 | ADAM22 |
| TC07000525.hg.1 | -5.53 | JUC07003590.hg.1 | ADAM22 |
| TC07000525.hg.1 | -5.55 | JUC07003614.hg.1 | ADAM22 |
| TC07000525.hg.1 | -5.93 | PSR07007536.hg.1 | ADAM22 |
| TC07000525.hg.1 | -6.87 | JUC07003591.hg.1 | ADAM22 |
| TC07000525.hg.1 | -6.93 | JUC07003602.hg.1 | ADAM22 |
| TC07000525.hg.1 | -7.09 | PSR07007544.hg.1 | ADAM22 |
| TC07000525.hg.1 | -7.13 | PSR07007545.hg.1 | ADAM22 |
| TC07000525.hg.1 | -7.25 | PSR07007496.hg.1 | ADAM22 |
| TC07000525.hg.1 | -7.85 | PSR07007504.hg.1 | ADAM22 |
| TC07000525.hg.1 | -7.93 | PSR07007495.hg.1 | ADAM22 |
| TC07000525.hg.1 | -8.6 | PSR07007497.hg.1 | ADAM22 |
| TC07000525.hg.1 | -9.2 | PSR07007535.hg.1 | ADAM22 |
| TC07000525.hg.1 | -11.27 | JUC07003617.hg.1 | ADAM22 |
| TC07000525.hg.1 | -11.34 | JUC07003596.hg.1 | ADAM22 |
| TC07000525.hg.1 | -11.57 | PSR07007490.hg.1 | ADAM22 |
| TC07000525.hg.1 | -11.96 | PSR07007493.hg.1 | ADAM22 |
| TC07000525.hg.1 | -12.86 | PSR07007503.hg.1 | ADAM22 |
| TC07000525.hg.1 | -13.57 | JUC07003625.hg.1 | ADAM22 |
| TC07000525.hg.1 | -14.87 | JUC07003599.hg.1 | ADAM22 |
| TC22000195.hg.1 | 5.32 | JUC22001254.hg.1 | EWSR1 |
| TC22000195.hg.1 | -2.23 | PSR22003585.hg.1 | EWSR1 |
| TC10000986.hg.1 | 5.31 | PSR10012373.hg.1 | AKR1C2, LOC |
| TC10000986.hg.1 | 3.45 | PSR10012376.hg.1 | AKR1C2, LOC |
| TC10000986.hg.1 | 3.18 | PSR10012355.hg.1 | AKR1C2, LOC |
| TC10000986.hg.1 | 3.04 | PSR10012356.hg.1 | AKR1C2, LOC |
| TC10000986.hg.1 | 2.65 | JUC10007165.hg.1 | AKR1C2, LOC |
| TC10000986.hg.1 | 2.47 | PSR10012375.hg.1 | AKR1C2, LOC |
| TC05000943.hg.1 | 5.29 | PSR05013796.hg.1 | FGF18 |
| TC05000943.hg.1 | 4.88 | PSR05013794.hg.1 | FGF18 |
| TC05000943.hg.1 | 2.9 | PSR05013795.hg.1 | FGF18 |
| TC05000943.hg.1 | -2.07 | JUC05007157.hg.1 | FGF18 |
| TC05000943.hg.1 | -2.55 | PSR05013790.hg.1 | FGF18 |
| TC05000943.hg.1 | -2.55 | PSR05013791.hg.1 | FGF18 |
| TC12000452.hg.1 | 5.29 | JUC12003184.hg.1 | HOXC8 |
| TC12000452.hg.1 | 3.66 | PSR12005914.hg.1 | HOXC8 |
| TC12000452.hg.1 | 2.84 | PSR12005921.hg.1 | HOXC8 |
| TC6_cox_hap2000 | 5.29 | JUC6_cox_hap20014 | COL11A2 |
| TC6_cox_hap2000 | 2.61 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | 2.46 | JUC6_cox_hap20014 | COL11A2 |
| TC6_cox_hap2000 | 2.4 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | 2.15 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | 2.03 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | -2.04 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | -2.21 | PSR6_cox_hap20040 | COL11A2 |
| TC6_cox_hap2000 | -2.25 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | -2.28 | PSR6_cox_hap20040 | COL11A2 |
| TC6_cox_hap2000 | -2.55 | JUC6_cox_hap20014 | COL11A2 |
| TC6_cox_hap2000 | -2.86 | JUC6_cox_hap20015 | COL11A2 |

| | | | |
|-----------------|-------|-------------------|---------|
| TC6_cox_hap2000 | -2.94 | JUC6_cox_hap20015 | COL11A2 |
| TC6_cox_hap2000 | -5.79 | JUC6_cox_hap20015 | COL11A2 |
| TC6_dbb_hap3000 | 5.29 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | 2.61 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | 2.46 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | 2.4 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | 2.15 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | 2.03 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | -2.04 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | -2.21 | PSR6_dbb_hap30031 | COL11A2 |
| TC6_dbb_hap3000 | -2.25 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | -2.28 | PSR6_dbb_hap30031 | COL11A2 |
| TC6_dbb_hap3000 | -2.55 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | -2.86 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | -2.94 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_dbb_hap3000 | -5.79 | JUC6_dbb_hap30014 | COL11A2 |
| TC6_mcf_hap5000 | 5.29 | JUC6_mcf_hap50012 | COL11A2 |
| TC6_mcf_hap5000 | 2.61 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | 2.46 | JUC6_mcf_hap50012 | COL11A2 |
| TC6_mcf_hap5000 | 2.4 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | 2.15 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | 2.03 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | -2.04 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | -2.21 | PSR6_mcf_hap50031 | COL11A2 |
| TC6_mcf_hap5000 | -2.25 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | -2.28 | PSR6_mcf_hap50031 | COL11A2 |
| TC6_mcf_hap5000 | -2.55 | JUC6_mcf_hap50012 | COL11A2 |
| TC6_mcf_hap5000 | -2.86 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | -2.94 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_mcf_hap5000 | -5.79 | JUC6_mcf_hap50013 | COL11A2 |
| TC6_qbl_hap6000 | 5.29 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | 2.61 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | 2.46 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | 2.4 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | 2.15 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | 2.03 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | -2.04 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | -2.21 | PSR6_qbl_hap60039 | COL11A2 |
| TC6_qbl_hap6000 | -2.25 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | -2.28 | PSR6_qbl_hap60039 | COL11A2 |
| TC6_qbl_hap6000 | -2.55 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | -2.86 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | -2.94 | JUC6_qbl_hap60015 | COL11A2 |
| TC6_qbl_hap6000 | -5.79 | JUC6_qbl_hap60015 | COL11A2 |
| TC03000076.hg.1 | 5.27 | JUC03000873.hg.1 | HDAC11 |
| TC03000076.hg.1 | 4.69 | JUC03000892.hg.1 | HDAC11 |
| TC03000076.hg.1 | 3.63 | JUC03000890.hg.1 | HDAC11 |
| TC03000076.hg.1 | 3.03 | JUC03000880.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.83 | PSR03001655.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.79 | PSR03001675.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.5 | PSR03001656.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.47 | PSR03001707.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.39 | PSR03001665.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.39 | PSR03001667.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.36 | PSR03001705.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.28 | JUC03000895.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.1 | PSR03001706.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.09 | PSR03001708.hg.1 | HDAC11 |

| | | | |
|-----------------|-------|------------------|------------|
| TC03000076.hg.1 | 2.06 | PSR03001682.hg.1 | HDAC11 |
| TC03000076.hg.1 | 2.06 | JUC03000889.hg.1 | HDAC11 |
| TC03000076.hg.1 | -2.78 | JUC03000886.hg.1 | HDAC11 |
| TC03000076.hg.1 | -3.24 | PSR03001694.hg.1 | HDAC11 |
| TC05001385.hg.1 | 5.27 | PSR05019320.hg.1 | PLK2 |
| TC05001385.hg.1 | 5.13 | PSR05019301.hg.1 | PLK2 |
| TC05001385.hg.1 | 5.12 | PSR05019305.hg.1 | PLK2 |
| TC05001385.hg.1 | 3.95 | PSR05019306.hg.1 | PLK2 |
| TC05001385.hg.1 | 3.89 | JUC05009929.hg.1 | PLK2 |
| TC05001385.hg.1 | 3.68 | PSR05019290.hg.1 | PLK2 |
| TC05001385.hg.1 | 3.48 | PSR05019267.hg.1 | PLK2 |
| TC05001385.hg.1 | 3.41 | PSR05019308.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.97 | PSR05019313.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.92 | JUC05009933.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.91 | PSR05019302.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.82 | PSR05019295.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.82 | JUC05009946.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.69 | PSR05019298.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.61 | PSR05019277.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.42 | PSR05019315.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.22 | PSR05019263.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.19 | PSR05019276.hg.1 | PLK2 |
| TC05001385.hg.1 | 2.12 | PSR05019316.hg.1 | PLK2 |
| TC07001501.hg.1 | 5.27 | JUC07011080.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.39 | PSR07022522.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.34 | JUC07011069.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.31 | PSR07022555.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.17 | PSR07022509.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.16 | PSR07022534.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.11 | JUC07011074.hg.1 | TBL2 |
| TC07001501.hg.1 | 2.06 | PSR07022504.hg.1 | TBL2 |
| TC07001501.hg.1 | -2.22 | JUC07011063.hg.1 | TBL2 |
| TC14000948.hg.1 | 5.27 | PSR14010481.hg.1 | ACIN1 |
| TC14000948.hg.1 | 2.54 | JUC14005313.hg.1 | ACIN1 |
| TC14000948.hg.1 | -2.05 | JUC14005302.hg.1 | ACIN1 |
| TC14000948.hg.1 | -2.97 | JUC14005325.hg.1 | ACIN1 |
| TC16000381.hg.1 | 5.27 | JUC16003130.hg.1 | KIAA0664L3 |
| TC16000381.hg.1 | 4.83 | JUC16003132.hg.1 | KIAA0664L3 |
| TC16000381.hg.1 | 2.74 | JUC16003138.hg.1 | KIAA0664L3 |
| TC16000381.hg.1 | 2.55 | PSR16005676.hg.1 | KIAA0664L3 |
| TC16000381.hg.1 | 2.27 | PSR16005672.hg.1 | KIAA0664L3 |
| TC16000381.hg.1 | -2.08 | PSR16005678.hg.1 | KIAA0664L3 |
| TC6_dbb_hap3000 | 5.27 | PSR6_dbb_hap3000 | HLA-H |
| TC6_dbb_hap3000 | 3.53 | PSR6_dbb_hap3000 | HLA-H |
| TC6_dbb_hap3000 | 2.6 | JUC6_dbb_hap3001 | HLA-H |
| TC6_dbb_hap3000 | 2.3 | JUC6_dbb_hap3001 | HLA-H |
| TC6_dbb_hap3000 | 2.1 | PSR6_dbb_hap3000 | HLA-H |
| TC6_dbb_hap3000 | 2.06 | PSR6_dbb_hap3000 | HLA-H |
| TC01002163.hg.1 | 5.26 | JUC01017910.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | 5.14 | PSR01033393.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | 4.86 | JUC01017913.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | 4.17 | PSR01033391.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | 3.52 | PSR01033383.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | 2.53 | PSR01033390.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | -2.05 | JUC01017908.hg.1 | TNFRSF9 |
| TC01002163.hg.1 | -3.14 | PSR01033386.hg.1 | TNFRSF9 |
| TC02001495.hg.1 | 5.26 | JUC02012693.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 3.67 | JUC02012660.hg.1 | SH3YL1 |

| | | | |
|-----------------|-------|------------------|--------|
| TC02001495.hg.1 | 3.53 | PSR02024531.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 3.1 | PSR02024528.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.81 | PSR02024524.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.81 | PSR02024529.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.67 | JUC02012694.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.64 | PSR02024469.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.56 | PSR02024468.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.49 | PSR02024472.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.43 | PSR02024527.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.39 | PSR02024534.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.35 | JUC02012683.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.27 | JUC02012689.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.17 | PSR02024518.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.17 | PSR02024530.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.09 | PSR02024455.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.04 | JUC02012681.hg.1 | SH3YL1 |
| TC02001495.hg.1 | 2.01 | PSR02024476.hg.1 | SH3YL1 |
| TC02001495.hg.1 | -2.19 | PSR02024509.hg.1 | SH3YL1 |
| TC02001495.hg.1 | -2.2 | PSR02024499.hg.1 | SH3YL1 |
| TC02001495.hg.1 | -5.35 | JUC02012669.hg.1 | SH3YL1 |
| TC02001495.hg.1 | -8.96 | JUC02012658.hg.1 | SH3YL1 |
| TC14000440.hg.1 | 5.26 | JUC14002843.hg.1 | PAPLN |
| TC14000440.hg.1 | 3.7 | PSR14005411.hg.1 | PAPLN |
| TC14000440.hg.1 | 3.51 | PSR14005444.hg.1 | PAPLN |
| TC14000440.hg.1 | 2.77 | JUC14002842.hg.1 | PAPLN |
| TC14000440.hg.1 | 2.11 | PSR14005442.hg.1 | PAPLN |
| TC01006404.hg.1 | 5.25 | PSR01016601.hg.1 | |
| TC01006404.hg.1 | 5.09 | JUC01046653.hg.1 | |
| TC01006404.hg.1 | 4.14 | JUC01046654.hg.1 | |
| TC01006404.hg.1 | 3.42 | JUC01046658.hg.1 | |
| TC01006404.hg.1 | 3.01 | PSR01016603.hg.1 | |
| TC01006404.hg.1 | 2.68 | JUC01046657.hg.1 | |
| TC01006404.hg.1 | 2.21 | PSR01016609.hg.1 | |
| TC01006404.hg.1 | 2.14 | PSR01016610.hg.1 | |
| TC02002529.hg.1 | 5.25 | JUC02021160.hg.1 | |
| TC02002529.hg.1 | 4.22 | PSR02040131.hg.1 | |
| TC02002529.hg.1 | 2.95 | PSR02040135.hg.1 | |
| TC02002529.hg.1 | 2.73 | PSR02040139.hg.1 | |
| TC02002529.hg.1 | 2.64 | PSR02040130.hg.1 | |
| TC02002529.hg.1 | 2.42 | PSR02040138.hg.1 | |
| TC02002529.hg.1 | 2.09 | PSR02040136.hg.1 | |
| TC02002529.hg.1 | 2.07 | PSR02040129.hg.1 | |
| TC02002529.hg.1 | -2.09 | PSR02040132.hg.1 | |
| TC02002529.hg.1 | -2.58 | JUC02021156.hg.1 | |
| TC10000081.hg.1 | 5.25 | JUC10000441.hg.1 | CELF2 |
| TC10000081.hg.1 | 3.59 | JUC10000449.hg.1 | CELF2 |
| TC10000081.hg.1 | 3.46 | JUC10000453.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.61 | PSR10000864.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.56 | PSR10000854.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.5 | JUC10000456.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.27 | PSR10000853.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.23 | JUC10000450.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.17 | PSR10000842.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.15 | PSR10000839.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.06 | JUC10000454.hg.1 | CELF2 |
| TC10000081.hg.1 | 2.03 | PSR10000871.hg.1 | CELF2 |
| TC10000081.hg.1 | -2.22 | PSR10000866.hg.1 | CELF2 |
| TC10000081.hg.1 | -2.29 | JUC10000452.hg.1 | CELF2 |

| | | | |
|-----------------|--------|------------------|-----------|
| TC10000081.hg.1 | -2.33 | PSR10000843.hg.1 | CELF2 |
| TC10000081.hg.1 | -3.78 | JUC10000457.hg.1 | CELF2 |
| TC15001136.hg.1 | 5.24 | JUC15005382.hg.1 | CHRFAM7A |
| TC15001136.hg.1 | 3.19 | PSR15010181.hg.1 | CHRFAM7A |
| TC15001136.hg.1 | 2.61 | PSR15010183.hg.1 | CHRFAM7A |
| TC15001136.hg.1 | 2.52 | JUC15005388.hg.1 | CHRFAM7A |
| TC15001136.hg.1 | 2.37 | PSR15010184.hg.1 | CHRFAM7A |
| TC15001136.hg.1 | 2 | PSR15010182.hg.1 | CHRFAM7A |
| TC10001448.hg.1 | 5.23 | JUC10010737.hg.1 | LOC283050 |
| TC10001448.hg.1 | 4.27 | JUC10010739.hg.1 | LOC283050 |
| TC10001448.hg.1 | 3.94 | JUC10010742.hg.1 | LOC283050 |
| TC10001448.hg.1 | 2.41 | JUC10010744.hg.1 | LOC283050 |
| TC10001448.hg.1 | 2.35 | JUC10010740.hg.1 | LOC283050 |
| TC10001448.hg.1 | 2.21 | PSR10018392.hg.1 | LOC283050 |
| TC10001448.hg.1 | 2.06 | JUC10010738.hg.1 | LOC283050 |
| TC10001448.hg.1 | 2.02 | PSR10018408.hg.1 | LOC283050 |
| TC01003226.hg.1 | 5.22 | JUC01026389.hg.1 | SELENBP1 |
| TC01003226.hg.1 | 2.43 | PSR01049721.hg.1 | SELENBP1 |
| TC01003226.hg.1 | 2.23 | PSR01049710.hg.1 | SELENBP1 |
| TC01003226.hg.1 | 2.16 | PSR01049730.hg.1 | SELENBP1 |
| TC01003226.hg.1 | 2.1 | PSR01049723.hg.1 | SELENBP1 |
| TC01003226.hg.1 | 2 | JUC01026386.hg.1 | SELENBP1 |
| TC03000208.hg.1 | 5.22 | JUC03002206.hg.1 | ENTPD3 |
| TC03000208.hg.1 | 3.65 | JUC03002200.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -2.15 | PSR03004121.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -2.54 | JUC03002199.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -3.37 | PSR03004126.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -4.83 | PSR03004119.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -5.58 | PSR03004123.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -6.42 | JUC03002201.hg.1 | ENTPD3 |
| TC03000208.hg.1 | -7.28 | PSR03004120.hg.1 | ENTPD3 |
| TC04001169.hg.1 | 5.22 | PSR04016020.hg.1 | CORIN |
| TC04001169.hg.1 | 2.81 | PSR04016032.hg.1 | CORIN |
| TC04001169.hg.1 | 2.78 | PSR04016054.hg.1 | CORIN |
| TC04001169.hg.1 | 2.41 | PSR04016030.hg.1 | CORIN |
| TC04001169.hg.1 | 2.41 | JUC04008509.hg.1 | CORIN |
| TC04001169.hg.1 | 2.13 | JUC04008491.hg.1 | CORIN |
| TC04001169.hg.1 | -2.45 | JUC04008496.hg.1 | CORIN |
| TC04001169.hg.1 | -2.48 | PSR04016026.hg.1 | CORIN |
| TC04001169.hg.1 | -2.78 | PSR04016023.hg.1 | CORIN |
| TC04001169.hg.1 | -2.85 | PSR04016039.hg.1 | CORIN |
| TC04001169.hg.1 | -2.86 | JUC04008506.hg.1 | CORIN |
| TC04001169.hg.1 | -3.75 | JUC04008505.hg.1 | CORIN |
| TC04001169.hg.1 | -3.81 | JUC04008517.hg.1 | CORIN |
| TC04001169.hg.1 | -3.82 | PSR04016028.hg.1 | CORIN |
| TC04001169.hg.1 | -3.83 | PSR04016043.hg.1 | CORIN |
| TC04001169.hg.1 | -5 | JUC04008499.hg.1 | CORIN |
| TC04001169.hg.1 | -5.75 | JUC04008514.hg.1 | CORIN |
| TC04001169.hg.1 | -6.37 | PSR04016041.hg.1 | CORIN |
| TC04001169.hg.1 | -6.45 | JUC04008490.hg.1 | CORIN |
| TC04001169.hg.1 | -6.69 | JUC04008498.hg.1 | CORIN |
| TC04001169.hg.1 | -7.47 | JUC04008503.hg.1 | CORIN |
| TC04001169.hg.1 | -13.29 | JUC04008495.hg.1 | CORIN |
| TC04001169.hg.1 | -16.48 | JUC04008516.hg.1 | CORIN |
| TC04001169.hg.1 | -20.18 | PSR04016053.hg.1 | CORIN |
| TC04001169.hg.1 | -22.4 | PSR04016050.hg.1 | CORIN |
| TC04001169.hg.1 | -24.14 | PSR04016057.hg.1 | CORIN |
| TC04001169.hg.1 | -27.5 | PSR04016027.hg.1 | CORIN |

| | | | |
|-----------------|--------|------------------|--------|
| TC01001399.hg.1 | 5.21 | JUC01011642.hg.1 | FCGR2A |
| TC01001399.hg.1 | 3.49 | PSR01021959.hg.1 | FCGR2A |
| TC01001399.hg.1 | 3.15 | PSR01021960.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.65 | PSR01021958.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.65 | PSR01021987.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.59 | PSR01021965.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.54 | JUC01011634.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.43 | PSR01021982.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.41 | JUC01011639.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.26 | PSR01021967.hg.1 | FCGR2A |
| TC01001399.hg.1 | 2.14 | JUC01011636.hg.1 | FCGR2A |
| TC01001399.hg.1 | -2.54 | PSR01021970.hg.1 | FCGR2A |
| TC01001399.hg.1 | -4.66 | PSR01021972.hg.1 | FCGR2A |
| TC01001399.hg.1 | -5.28 | JUC01011643.hg.1 | FCGR2A |
| TC01001399.hg.1 | -10.33 | PSR01021973.hg.1 | FCGR2A |
| TC01001399.hg.1 | -10.69 | PSR01021977.hg.1 | FCGR2A |
| TC02001904.hg.1 | 5.21 | JUC02016053.hg.1 | WDPCP |
| TC02001904.hg.1 | 2.72 | JUC02016047.hg.1 | WDPCP |
| TC02001904.hg.1 | 2.34 | JUC02016040.hg.1 | WDPCP |
| TC02001904.hg.1 | 2.03 | PSR02030494.hg.1 | WDPCP |
| TC02001904.hg.1 | 2.03 | PSR02030511.hg.1 | WDPCP |
| TC07000559.hg.1 | 5.21 | PSR07008216.hg.1 | COL1A2 |
| TC07000559.hg.1 | 3.43 | PSR07008241.hg.1 | COL1A2 |
| TC07000559.hg.1 | 3.1 | PSR07008234.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.86 | PSR07008221.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.81 | PSR07008247.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.68 | PSR07008232.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.66 | PSR07008242.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.59 | PSR07008249.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.14 | PSR07008230.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.07 | PSR07008227.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.06 | PSR07008243.hg.1 | COL1A2 |
| TC07000559.hg.1 | 2.03 | PSR07008254.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2 | JUC07003932.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.01 | JUC07003952.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.03 | PSR07008244.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.1 | PSR07008253.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.16 | JUC07003924.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.21 | PSR07008256.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.26 | PSR07008250.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.29 | JUC07003915.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.37 | PSR07008255.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.39 | PSR07008251.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.41 | PSR07008252.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.71 | JUC07003935.hg.1 | COL1A2 |
| TC07000559.hg.1 | -2.75 | PSR07008173.hg.1 | COL1A2 |
| TC02001610.hg.1 | 5.2 | JUC02013413.hg.1 | |
| TC02001610.hg.1 | 3.67 | JUC02013414.hg.1 | |
| TC02001610.hg.1 | 3.09 | PSR02025810.hg.1 | |
| TC02001610.hg.1 | 2.65 | JUC02013415.hg.1 | |
| TC02001610.hg.1 | 2.48 | PSR02025809.hg.1 | |
| TC02001610.hg.1 | 2.44 | PSR02025805.hg.1 | |
| TC02001610.hg.1 | 2.09 | JUC02013412.hg.1 | |
| TC01000184.hg.1 | 5.19 | JUC01001610.hg.1 | KAZN |
| TC01000184.hg.1 | 2.71 | JUC01001611.hg.1 | KAZN |
| TC01000184.hg.1 | 2.6 | PSR01002917.hg.1 | KAZN |
| TC01000184.hg.1 | 2.56 | PSR01002938.hg.1 | KAZN |
| TC01000184.hg.1 | 2.33 | PSR01002912.hg.1 | KAZN |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01000184.hg.1 | 2.15 | JUC01001612.hg.1 | KAZN |
| TC01000184.hg.1 | 2.06 | PSR01002916.hg.1 | KAZN |
| TC01000184.hg.1 | 2.04 | JUC01001621.hg.1 | KAZN |
| TC01000184.hg.1 | 2.04 | JUC01001624.hg.1 | KAZN |
| TC01000184.hg.1 | 2 | PSR01002935.hg.1 | KAZN |
| TC01006369.hg.1 | 5.19 | JUC01045125.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.47 | PSR01048679.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.15 | PSR01048654.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.15 | PSR01048706.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.15 | PSR01048715.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.09 | PSR01048708.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.09 | PSR01048717.hg.1 | NBPF10, LOC |
| TC01006369.hg.1 | 2.06 | PSR01048690.hg.1 | NBPF10, LOC |
| TC04001820.hg.1 | 5.18 | PSR04024888.hg.1 | SORBS2 |
| TC04001820.hg.1 | 4.26 | PSR04024903.hg.1 | SORBS2 |
| TC04001820.hg.1 | 4.09 | JUC04013189.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.89 | JUC04013236.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.87 | PSR04025012.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.64 | PSR04025026.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.58 | PSR04025034.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.56 | JUC04013212.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.41 | JUC04013248.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.34 | JUC04013204.hg.1 | SORBS2 |
| TC04001820.hg.1 | 3.02 | JUC04013247.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.99 | JUC04013221.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.9 | JUC04013217.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.87 | JUC04013195.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.81 | PSR04025040.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.67 | PSR04025027.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.48 | PSR04024935.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.47 | PSR04025035.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.44 | JUC04013229.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.35 | PSR04025015.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.28 | PSR04025038.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.25 | PSR04025019.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.23 | PSR04024894.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.2 | PSR04025010.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.17 | PSR04024913.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.14 | PSR04024994.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.1 | PSR04024904.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.1 | PSR04025017.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.07 | PSR04024997.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2.03 | JUC04013200.hg.1 | SORBS2 |
| TC04001820.hg.1 | 2 | JUC04013214.hg.1 | SORBS2 |
| TC04001820.hg.1 | -4.02 | JUC04013224.hg.1 | SORBS2 |
| TC06001332.hg.1 | 5.18 | JUC06008028.hg.1 | CMAHP |
| TC06001332.hg.1 | -2.03 | PSR06015966.hg.1 | CMAHP |
| TC06001332.hg.1 | -2.2 | PSR06015985.hg.1 | CMAHP |
| TC06001332.hg.1 | -2.2 | PSR06016004.hg.1 | CMAHP |
| TC06001332.hg.1 | -2.46 | PSR06016001.hg.1 | CMAHP |
| TC06001332.hg.1 | -2.51 | PSR06016003.hg.1 | CMAHP |
| TC06001332.hg.1 | -3.33 | PSR06015972.hg.1 | CMAHP |
| TC06001332.hg.1 | -3.63 | PSR06015981.hg.1 | CMAHP |
| TC06001332.hg.1 | -4.02 | PSR06015975.hg.1 | CMAHP |
| TC06001332.hg.1 | -4.06 | PSR06015999.hg.1 | CMAHP |
| TC06001332.hg.1 | -4.15 | PSR06016000.hg.1 | CMAHP |
| TC06001332.hg.1 | -4.37 | PSR06015973.hg.1 | CMAHP |
| TC06001332.hg.1 | -4.76 | PSR06015995.hg.1 | CMAHP |

| | | | |
|-----------------|-------|-------------------|-----------|
| TC06001332.hg.1 | -5.25 | PSR06015965.hg.1 | CMAHP |
| TC06001332.hg.1 | -5.65 | PSR06015974.hg.1 | CMAHP |
| TC06001332.hg.1 | -6.74 | PSR06015984.hg.1 | CMAHP |
| TC06001332.hg.1 | -7.33 | JUC06008018.hg.1 | CMAHP |
| TC08000452.hg.1 | 5.18 | JUC08003116.hg.1 | PREX2 |
| TC08000452.hg.1 | 5.06 | JUC08003104.hg.1 | PREX2 |
| TC08000452.hg.1 | 4.32 | JUC08003110.hg.1 | PREX2 |
| TC08000452.hg.1 | 3.8 | JUC08003140.hg.1 | PREX2 |
| TC08000452.hg.1 | 3.69 | JUC08003127.hg.1 | PREX2 |
| TC08000452.hg.1 | 3.45 | JUC08003128.hg.1 | PREX2 |
| TC08000452.hg.1 | 3.42 | PSR08006423.hg.1 | PREX2 |
| TC08000452.hg.1 | 3.08 | PSR08006404.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.99 | PSR08006424.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.65 | PSR08006433.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.46 | PSR08006422.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.37 | JUC08003119.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.28 | PSR08006421.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.08 | PSR08006425.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.07 | JUC08003099.hg.1 | PREX2 |
| TC08000452.hg.1 | 2.06 | PSR08006426.hg.1 | PREX2 |
| TC08000452.hg.1 | -2.4 | JUC08003142.hg.1 | PREX2 |
| TC08000452.hg.1 | -4.1 | JUC08003134.hg.1 | PREX2 |
| TC15001636.hg.1 | 5.17 | JUC15008577.hg.1 | LOXL1-AS1 |
| TC15001636.hg.1 | 2.53 | PSR15015878.hg.1 | LOXL1-AS1 |
| TC15001636.hg.1 | 2.21 | PSR15015877.hg.1 | LOXL1-AS1 |
| TC15001636.hg.1 | 2.08 | PSR15015875.hg.1 | LOXL1-AS1 |
| TC15001636.hg.1 | 2.06 | JUC15008578.hg.1 | LOXL1-AS1 |
| TC21000039.hg.1 | 5.17 | JUC21000081.hg.1 | USP25 |
| TC21000039.hg.1 | -2.06 | PSR21000147.hg.1 | USP25 |
| TC17000914.hg.1 | 5.16 | JUC17006637.hg.1 | CCDC40 |
| TC17000914.hg.1 | 3.55 | PSR17011848.hg.1 | CCDC40 |
| TC17000914.hg.1 | 3.32 | JUC17006646.hg.1 | CCDC40 |
| TC6_qbl_hap6000 | 5.16 | PSR6_qbl_hap60022 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 4.45 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 3.58 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 3.4 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 3.29 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 3.11 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 3.06 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 2.92 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 2.83 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 2.65 | JUC6_qbl_hap60007 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 2.58 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 2.58 | JUC6_qbl_hap60007 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | 2.36 | PSR6_qbl_hap60021 | ZNRD1-AS1 |
| TC6_qbl_hap6000 | -2.55 | JUC6_qbl_hap60007 | ZNRD1-AS1 |
| TC0X000724.hg.1 | 5.15 | JUC0X004713.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.47 | PSR0X009344.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.46 | PSR0X009314.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.33 | PSR0X009319.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.33 | PSR0X009338.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.22 | PSR0X009337.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.22 | JUC0X004738.hg.1 | MTMR1 |
| TC0X000724.hg.1 | 2.11 | PSR0X009349.hg.1 | MTMR1 |
| TC07000424.hg.1 | 5.14 | JUC07002697.hg.1 | AUTS2 |
| TC07000424.hg.1 | 2.45 | PSR07005666.hg.1 | AUTS2 |
| TC07000424.hg.1 | 2 | JUC07002703.hg.1 | AUTS2 |
| TC22000019.hg.1 | 5.14 | JUC22000038.hg.1 | IL17RA |

| | | | |
|-----------------|-------|------------------|--------|
| TC22000019.hg.1 | 4.45 | PSR22000087.hg.1 | IL17RA |
| TC22000019.hg.1 | 3.1 | JUC22000039.hg.1 | IL17RA |
| TC22000019.hg.1 | 2.81 | PSR22000070.hg.1 | IL17RA |
| TC22000019.hg.1 | 2.56 | PSR22000072.hg.1 | IL17RA |
| TC05000258.hg.1 | 5.13 | JUC05001746.hg.1 | PART1 |
| TC05000258.hg.1 | 4.64 | JUC05001745.hg.1 | PART1 |
| TC05000258.hg.1 | 4.04 | PSR05003151.hg.1 | PART1 |
| TC05000258.hg.1 | 3.38 | PSR05003152.hg.1 | PART1 |
| TC05000258.hg.1 | 3.12 | PSR05003153.hg.1 | PART1 |
| TC07003396.hg.1 | 5.13 | JUC07021873.hg.1 | TRRAP |
| TC07003396.hg.1 | 2.19 | PSR07008540.hg.1 | TRRAP |
| TC07003396.hg.1 | 2.13 | PSR07008577.hg.1 | TRRAP |
| TC07003396.hg.1 | 2.09 | JUC07021897.hg.1 | TRRAP |
| TC07003396.hg.1 | -2.01 | JUC07021910.hg.1 | TRRAP |
| TC07003396.hg.1 | -2.15 | JUC07021902.hg.1 | TRRAP |
| TC11002170.hg.1 | 5.13 | JUC11013816.hg.1 | FZD4 |
| TC11002170.hg.1 | 3.52 | PSR11026010.hg.1 | FZD4 |
| TC05000849.hg.1 | 5.12 | JUC05006395.hg.1 | GRIA1 |
| TC05000849.hg.1 | 3.36 | JUC05006399.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.79 | PSR05012232.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.64 | PSR05012238.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.43 | PSR05012225.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.4 | JUC05006389.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.32 | JUC05006392.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.16 | JUC05006384.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.15 | PSR05012243.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.04 | PSR05012235.hg.1 | GRIA1 |
| TC05000849.hg.1 | 2.03 | PSR05012261.hg.1 | GRIA1 |
| TC05000849.hg.1 | -2.08 | PSR05012270.hg.1 | GRIA1 |
| TC05000849.hg.1 | -2.45 | JUC05006404.hg.1 | GRIA1 |
| TC05000849.hg.1 | -2.57 | PSR05012272.hg.1 | GRIA1 |
| TC05000849.hg.1 | -2.68 | JUC05006397.hg.1 | GRIA1 |
| TC07000296.hg.1 | 5.11 | PSR07004546.hg.1 | |
| TC07000296.hg.1 | 3.75 | JUC07002181.hg.1 | |
| TC02000704.hg.1 | 5.1 | JUC02005753.hg.1 | FBLN7 |
| TC02000704.hg.1 | 4.62 | PSR02010875.hg.1 | FBLN7 |
| TC02000704.hg.1 | 4 | PSR02010887.hg.1 | FBLN7 |
| TC02000704.hg.1 | 3.69 | JUC02005764.hg.1 | FBLN7 |
| TC02000704.hg.1 | 3.34 | PSR02010886.hg.1 | FBLN7 |
| TC02000704.hg.1 | 2.94 | PSR02010868.hg.1 | FBLN7 |
| TC02000704.hg.1 | 2.64 | JUC02005766.hg.1 | FBLN7 |
| TC02000704.hg.1 | 2.4 | PSR02010874.hg.1 | FBLN7 |
| TC02000704.hg.1 | 2.18 | PSR02010873.hg.1 | FBLN7 |
| TC02000704.hg.1 | 2 | JUC02005761.hg.1 | FBLN7 |
| TC02000704.hg.1 | -2 | JUC02005765.hg.1 | FBLN7 |
| TC02000704.hg.1 | -2.04 | JUC02005760.hg.1 | FBLN7 |
| TC02000704.hg.1 | -2.08 | PSR02010880.hg.1 | FBLN7 |
| TC02000704.hg.1 | -2.64 | PSR02010883.hg.1 | FBLN7 |
| TC03001849.hg.1 | 5.1 | JUC03016541.hg.1 | TFDP2 |
| TC03001849.hg.1 | -2.08 | JUC03016524.hg.1 | TFDP2 |
| TC03001849.hg.1 | -2.14 | JUC03016539.hg.1 | TFDP2 |
| TC03001849.hg.1 | -2.47 | PSR03033311.hg.1 | TFDP2 |
| TC20000802.hg.1 | 5.1 | JUC20005685.hg.1 | FER1L4 |
| TC20000802.hg.1 | 2.58 | JUC20005675.hg.1 | FER1L4 |
| TC20000802.hg.1 | 2.34 | PSR20010821.hg.1 | FER1L4 |
| TC20000802.hg.1 | 2.22 | PSR20010829.hg.1 | FER1L4 |
| TC20000802.hg.1 | 2.18 | JUC20005647.hg.1 | FER1L4 |
| TC20000802.hg.1 | 2.17 | PSR20010818.hg.1 | FER1L4 |

| | | | |
|-----------------|-------|------------------|--------|
| TC20000802.hg.1 | 2.09 | PSR20010845.hg.1 | FER1L4 |
| TC20000802.hg.1 | 2.04 | JUC20005645.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.19 | JUC20005662.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.25 | PSR20010824.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.37 | JUC20005654.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.38 | PSR20010838.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.44 | PSR20010814.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.51 | PSR20010849.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.51 | JUC20005669.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.77 | JUC20005664.hg.1 | FER1L4 |
| TC20000802.hg.1 | -2.84 | JUC20005678.hg.1 | FER1L4 |
| TC20000802.hg.1 | -3.08 | JUC20005663.hg.1 | FER1L4 |
| TC20000802.hg.1 | -3.1 | JUC20005671.hg.1 | FER1L4 |
| TC20000802.hg.1 | -3.21 | JUC20005677.hg.1 | FER1L4 |
| TC20000802.hg.1 | -3.33 | JUC20005642.hg.1 | FER1L4 |
| TC20000802.hg.1 | -4.36 | PSR20010839.hg.1 | FER1L4 |
| TC20000802.hg.1 | -5.35 | PSR20010812.hg.1 | FER1L4 |
| TC20000802.hg.1 | -6.08 | JUC20005659.hg.1 | FER1L4 |
| TC19002651.hg.1 | 5.1 | JUC19017503.hg.1 | ZNF765 |
| TC19002651.hg.1 | -2 | PSR19011361.hg.1 | ZNF765 |
| TC19002651.hg.1 | -3.56 | JUC19017499.hg.1 | ZNF765 |
| TC01006324.hg.1 | 5.09 | PSR01013873.hg.1 | TMEM56 |
| TC01006324.hg.1 | 4.51 | PSR01013874.hg.1 | TMEM56 |
| TC01006324.hg.1 | 3.68 | JUC01044057.hg.1 | TMEM56 |
| TC01006324.hg.1 | 3.27 | PSR01013872.hg.1 | TMEM56 |
| TC01006324.hg.1 | 2.64 | PSR01013869.hg.1 | TMEM56 |
| TC01006324.hg.1 | -2.06 | JUC01044056.hg.1 | TMEM56 |
| TC01006324.hg.1 | -2.16 | JUC01044054.hg.1 | TMEM56 |
| TC01006324.hg.1 | -2.27 | PSR01013886.hg.1 | TMEM56 |
| TC07001065.hg.1 | 5.09 | JUC07007952.hg.1 | WDR60 |
| TC07001065.hg.1 | 2.22 | JUC07007944.hg.1 | WDR60 |
| TC07001065.hg.1 | 2.15 | PSR07016344.hg.1 | WDR60 |
| TC07001552.hg.1 | 5.09 | JUC07011580.hg.1 | MAGI2 |
| TC07001552.hg.1 | 3.45 | JUC07011566.hg.1 | MAGI2 |
| TC07001552.hg.1 | 2.64 | PSR07023362.hg.1 | MAGI2 |
| TC07001552.hg.1 | 2.55 | PSR07023355.hg.1 | MAGI2 |
| TC07001552.hg.1 | 2.45 | JUC07011572.hg.1 | MAGI2 |
| TC07001552.hg.1 | 2 | PSR07023347.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.11 | PSR07023380.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.12 | JUC07011591.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.18 | JUC07011561.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.24 | PSR07023342.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.25 | PSR07023345.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.45 | JUC07011583.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.57 | PSR07023370.hg.1 | MAGI2 |
| TC07001552.hg.1 | -2.87 | JUC07011567.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.14 | JUC07011571.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.24 | JUC07011562.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.48 | PSR07023372.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.62 | JUC07011559.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.83 | PSR07023382.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.84 | PSR07023357.hg.1 | MAGI2 |
| TC07001552.hg.1 | -3.93 | PSR07023341.hg.1 | MAGI2 |
| TC07001552.hg.1 | -4.18 | PSR07023338.hg.1 | MAGI2 |
| TC07001552.hg.1 | -4.22 | PSR07023374.hg.1 | MAGI2 |
| TC07001552.hg.1 | -4.61 | PSR07023383.hg.1 | MAGI2 |
| TC07001552.hg.1 | -4.7 | JUC07011576.hg.1 | MAGI2 |
| TC07001552.hg.1 | -5.61 | PSR07023373.hg.1 | MAGI2 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC07001552.hg.1 | -5.62 | PSR07023364.hg.1 | MAGI2 |
| TC07001552.hg.1 | -6.28 | PSR07023376.hg.1 | MAGI2 |
| TC07001552.hg.1 | -6.82 | PSR07023339.hg.1 | MAGI2 |
| TC07001552.hg.1 | -8.03 | JUC07011590.hg.1 | MAGI2 |
| TC07001552.hg.1 | -8.32 | JUC07011558.hg.1 | MAGI2 |
| TC04000486.hg.1 | 5.08 | JUC04003631.hg.1 | HERC3 |
| TC04000486.hg.1 | 2.46 | JUC04003652.hg.1 | HERC3 |
| TC04000486.hg.1 | 2.02 | PSR04007069.hg.1 | HERC3 |
| TC01000061.hg.1 | 5.06 | JUC01000474.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | 4.26 | JUC01000475.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | 2.12 | PSR01000938.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | -2.53 | PSR01000967.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | -2.9 | PSR01000954.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | -2.9 | JUC01000485.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | -2.98 | JUC01000487.hg.1 | TNFRSF14 |
| TC01000061.hg.1 | -3.12 | JUC01000470.hg.1 | TNFRSF14 |
| TC01003129.hg.1 | 5.04 | JUC01025970.hg.1 | GJA5 |
| TC01003129.hg.1 | 2.46 | PSR01048502.hg.1 | GJA5 |
| TC01003129.hg.1 | -2.4 | PSR01048498.hg.1 | GJA5 |
| TC01003129.hg.1 | -3.36 | PSR01048500.hg.1 | GJA5 |
| TC01003129.hg.1 | -3.56 | PSR01048506.hg.1 | GJA5 |
| TC01003129.hg.1 | -4.43 | PSR01048507.hg.1 | GJA5 |
| TC01003129.hg.1 | -12.59 | PSR01048509.hg.1 | GJA5 |
| TC02000286.hg.1 | 5.04 | PSR02004351.hg.1 | SOCS5 |
| TC02000286.hg.1 | 4.42 | JUC02002263.hg.1 | SOCS5 |
| TC02000286.hg.1 | 3.13 | JUC02002262.hg.1 | SOCS5 |
| TC02000286.hg.1 | 2.85 | JUC02002264.hg.1 | SOCS5 |
| TC02000286.hg.1 | -2.46 | PSR02004361.hg.1 | SOCS5 |
| TC17000205.hg.1 | 5.04 | JUC17001647.hg.1 | MYO15A |
| TC17000205.hg.1 | 3.81 | JUC17001664.hg.1 | MYO15A |
| TC17000205.hg.1 | 2.58 | PSR17002905.hg.1 | MYO15A |
| TC17000205.hg.1 | 2 | JUC17001658.hg.1 | MYO15A |
| TC17000205.hg.1 | -3.47 | JUC17001632.hg.1 | MYO15A |
| TC21000506.hg.1 | 5.04 | JUC21003154.hg.1 | SIK1 |
| TC21000506.hg.1 | 4.19 | JUC21003155.hg.1 | SIK1 |
| TC21000506.hg.1 | 2.95 | PSR21006117.hg.1 | SIK1 |
| TC21000506.hg.1 | 2.87 | PSR21006103.hg.1 | SIK1 |
| TC21000506.hg.1 | 2.46 | JUC21003161.hg.1 | SIK1 |
| TC21000506.hg.1 | 2.34 | JUC21003149.hg.1 | SIK1 |
| TC21000506.hg.1 | 2.05 | JUC21003160.hg.1 | SIK1 |
| TC21000506.hg.1 | 2.01 | JUC21003151.hg.1 | SIK1 |
| TC21000506.hg.1 | -2.12 | JUC21003157.hg.1 | SIK1 |
| TC21000506.hg.1 | -2.64 | PSR21006121.hg.1 | SIK1 |
| TC21000506.hg.1 | -4.08 | JUC21003159.hg.1 | SIK1 |
| TC19000202.hg.1 | 5.03 | JUC19001811.hg.1 | CNN1 |
| TC19000202.hg.1 | 2.5 | JUC19001812.hg.1 | CNN1 |
| TC19000202.hg.1 | 2.29 | JUC19001810.hg.1 | CNN1 |
| TC19000202.hg.1 | 2.13 | PSR19003084.hg.1 | CNN1 |
| TC19000202.hg.1 | -2.37 | PSR19003092.hg.1 | CNN1 |
| TC19000202.hg.1 | -3.38 | PSR19003078.hg.1 | CNN1 |
| TC19000202.hg.1 | -3.53 | JUC19001813.hg.1 | CNN1 |
| TC19000202.hg.1 | -4.46 | PSR19003082.hg.1 | CNN1 |
| TC06004141.hg.1 | 5.02 | PSR06028534.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | 4.95 | PSR06028535.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | 3.43 | PSR06028520.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | 3.31 | JUC06021913.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | 2.15 | PSR06028524.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | -2.22 | PSR06028521.hg.1 | SOD2, LOC10 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06004141.hg.1 | -2.59 | JUC06021917.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | -3.4 | PSR06028507.hg.1 | SOD2, LOC10 |
| TC06004141.hg.1 | -3.68 | PSR06028522.hg.1 | SOD2, LOC10 |
| TC08000173.hg.1 | 5.02 | JUC08001139.hg.1 | SORBS3 |
| TC08000173.hg.1 | 2.43 | JUC08001124.hg.1 | SORBS3 |
| TC08000173.hg.1 | 2.34 | PSR08002097.hg.1 | SORBS3 |
| TC08000173.hg.1 | 2.24 | PSR08002084.hg.1 | SORBS3 |
| TC08000173.hg.1 | 2.09 | PSR08002088.hg.1 | SORBS3 |
| TC08000173.hg.1 | 2.08 | PSR08002074.hg.1 | SORBS3 |
| TC08000173.hg.1 | 2.06 | PSR08002068.hg.1 | SORBS3 |
| TC08000173.hg.1 | -3.17 | PSR08002091.hg.1 | SORBS3 |
| TC14000386.hg.1 | 5.02 | JUC14002216.hg.1 | SYNE2 |
| TC14000386.hg.1 | 4.12 | JUC14002207.hg.1 | SYNE2 |
| TC14000386.hg.1 | 4.11 | JUC14002176.hg.1 | SYNE2 |
| TC14000386.hg.1 | 3.45 | JUC14002204.hg.1 | SYNE2 |
| TC14000386.hg.1 | 3.34 | PSR14004252.hg.1 | SYNE2 |
| TC14000386.hg.1 | 3.13 | PSR14004346.hg.1 | SYNE2 |
| TC14000386.hg.1 | 3.13 | JUC14002133.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.9 | JUC14002106.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.85 | PSR14004267.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.78 | JUC14002197.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.77 | PSR14004264.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.66 | JUC14002102.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.6 | JUC14002123.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.59 | PSR14004244.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.57 | PSR14004249.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.47 | PSR14004303.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.34 | PSR14004277.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.3 | JUC14002136.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.29 | PSR14004300.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.28 | PSR14004263.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.23 | JUC14002157.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.23 | JUC14002166.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.19 | JUC14002215.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.16 | JUC14002221.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.11 | JUC14002131.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.1 | PSR14004261.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.08 | PSR14004284.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.07 | PSR14004253.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.07 | PSR14004254.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.07 | PSR14004366.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.07 | JUC14002206.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.06 | PSR14004257.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.06 | PSR14004360.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.06 | JUC14002139.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.04 | PSR14004358.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.03 | PSR14004308.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.02 | PSR14004281.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.02 | PSR14004285.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.02 | PSR14004374.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.02 | JUC14002146.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2.01 | PSR14004238.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2 | PSR14004234.hg.1 | SYNE2 |
| TC14000386.hg.1 | 2 | PSR14004302.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2 | PSR14004376.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.01 | PSR14004370.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.02 | JUC14002103.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.04 | PSR14004314.hg.1 | SYNE2 |

| | | | |
|-----------------|-------|-------------------|-------------|
| TC14000386.hg.1 | -2.05 | JUC14002100.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.07 | JUC14002116.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.1 | JUC14002198.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.17 | PSR14004342.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.17 | JUC14002111.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.17 | JUC14002203.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.27 | PSR14004316.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.29 | PSR14004325.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.31 | JUC14002138.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.34 | JUC14002147.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.52 | JUC14002155.hg.1 | SYNE2 |
| TC14000386.hg.1 | -2.57 | JUC14002088.hg.1 | SYNE2 |
| TC14000386.hg.1 | -3.01 | JUC14002097.hg.1 | SYNE2 |
| TC14000386.hg.1 | -3.02 | PSR14004313.hg.1 | SYNE2 |
| TC14000386.hg.1 | -3.04 | PSR14004330.hg.1 | SYNE2 |
| TC14000386.hg.1 | -3.33 | JUC14002137.hg.1 | SYNE2 |
| TC14000386.hg.1 | -4.36 | JUC14002119.hg.1 | SYNE2 |
| TC01003353.hg.1 | 4.98 | JUC01027412.hg.1 | HDGF |
| TC01003353.hg.1 | 2.38 | PSR01052377.hg.1 | HDGF |
| TC01003353.hg.1 | 2.28 | JUC01027417.hg.1 | HDGF |
| TC06001578.hg.1 | 4.98 | JUC06008987.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | 3.61 | JUC06008978.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | 2.77 | PSR06018909.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | 2.39 | PSR06018922.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | 2.08 | PSR06018907.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | 2.07 | PSR06018921.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | 2.02 | PSR06018905.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | -2.07 | JUC06008979.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | -2.08 | JUC06008984.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | -2.18 | PSR06018929.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | -2.49 | PSR06018934.hg.1 | HLA-DPA1 |
| TC06001578.hg.1 | -4.66 | JUC06008989.hg.1 | HLA-DPA1 |
| TC10001187.hg.1 | 4.98 | JUC10008625.hg.1 | ZNF248 |
| TC10001187.hg.1 | 2.98 | PSR10014900.hg.1 | ZNF248 |
| TC10001187.hg.1 | 2.48 | PSR10014875.hg.1 | ZNF248 |
| TC6_cox_hap2000 | 4.98 | JUC6_cox_hap20014 | HLA-DPA1 |
| TC6_cox_hap2000 | 3.61 | JUC6_cox_hap20014 | HLA-DPA1 |
| TC6_cox_hap2000 | 2.77 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | 2.39 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | 2.08 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | 2.07 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | 2.02 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | -2.08 | JUC6_cox_hap20014 | HLA-DPA1 |
| TC6_cox_hap2000 | -2.18 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | -2.62 | PSR6_cox_hap20040 | HLA-DPA1 |
| TC6_cox_hap2000 | -4.66 | JUC6_cox_hap20014 | HLA-DPA1 |
| TC0X001549.hg.1 | 4.98 | JUC0X010381.hg.1 | MTCP1NB, M |
| TC0X001549.hg.1 | 2.96 | JUC0X010377.hg.1 | MTCP1NB, M |
| TC0X001549.hg.1 | 2.19 | JUC0X010378.hg.1 | MTCP1NB, M |
| TC0X001549.hg.1 | 2 | PSR0X020786.hg.1 | MTCP1NB, M |
| TC06001002.hg.1 | 4.97 | JUC06005742.hg.1 | TBPL1 |
| TC06001002.hg.1 | 2.83 | JUC06005738.hg.1 | TBPL1 |
| TC06001002.hg.1 | 2.61 | PSR06011841.hg.1 | TBPL1 |
| TC10000228.hg.1 | 4.97 | JUC10001434.hg.1 | CCDC7, C10c |
| TC10000228.hg.1 | 4.2 | JUC10001393.hg.1 | CCDC7, C10c |
| TC10000228.hg.1 | 3.98 | JUC10001402.hg.1 | CCDC7, C10c |
| TC10000228.hg.1 | 3.95 | JUC10001396.hg.1 | CCDC7, C10c |
| TC10000228.hg.1 | 3.6 | PSR10002639.hg.1 | CCDC7, C10c |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10000228.hg.1 | 3.4 | JUC10001412.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 3.21 | PSR10002635.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 3.16 | PSR10002634.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 3.16 | JUC10001450.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 3.05 | PSR10002637.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 3.01 | PSR10002640.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.96 | PSR10002570.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.94 | PSR10002617.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.93 | PSR10002643.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.88 | PSR10002632.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.87 | JUC10001409.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.86 | PSR10002633.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.83 | PSR10002590.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.83 | PSR10002592.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.7 | JUC10001448.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.65 | PSR10002628.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.63 | PSR10002644.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.61 | PSR10002579.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.56 | JUC10001392.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.5 | PSR10002631.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.45 | PSR10002621.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.44 | JUC10001446.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.41 | PSR10002641.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.38 | PSR10002646.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.35 | JUC10001437.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.33 | PSR10002624.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.32 | PSR10002645.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.31 | JUC10001452.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.3 | PSR10002618.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.29 | PSR10002642.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.25 | PSR10002601.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.24 | PSR10002576.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.21 | PSR10002574.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.13 | PSR10002630.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.11 | JUC10001403.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.09 | PSR10002607.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.08 | PSR10002604.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.08 | JUC10001416.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.07 | PSR10002578.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.06 | PSR10002599.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2.02 | PSR10002638.hg.1 | CCDC7, C100 |
| TC10000228.hg.1 | 2 | JUC10001406.hg.1 | CCDC7, C100 |
| TC17000648.hg.1 | 4.97 | JUC17004477.hg.1 | KAT7 |
| TC17000648.hg.1 | 4.68 | JUC17004469.hg.1 | KAT7 |
| TC17000648.hg.1 | 2.26 | PSR17008056.hg.1 | KAT7 |
| TC17000648.hg.1 | 2.21 | JUC17004481.hg.1 | KAT7 |
| TC17000648.hg.1 | 2.2 | JUC17004472.hg.1 | KAT7 |
| TC17000648.hg.1 | 2.12 | JUC17004475.hg.1 | KAT7 |
| TC17000648.hg.1 | -2.32 | JUC17004480.hg.1 | KAT7 |
| TC20000621.hg.1 | 4.97 | JUC20004621.hg.1 | JAG1 |
| TC20000621.hg.1 | 4.94 | PSR20008940.hg.1 | JAG1 |
| TC20000621.hg.1 | 4.3 | PSR20008935.hg.1 | JAG1 |
| TC20000621.hg.1 | 3.41 | PSR20008919.hg.1 | JAG1 |
| TC20000621.hg.1 | 2.2 | JUC20004606.hg.1 | JAG1 |
| TC20000621.hg.1 | -2.05 | PSR20008899.hg.1 | JAG1 |
| TC20000621.hg.1 | -2.42 | PSR20008900.hg.1 | JAG1 |
| TC20000621.hg.1 | -2.9 | JUC20004618.hg.1 | JAG1 |
| TC20000621.hg.1 | -3.59 | JUC20004619.hg.1 | JAG1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC20000621.hg.1 | -5.57 | JUC20004615.hg.1 | JAG1 |
| TC05002138.hg.1 | 4.96 | JUC05015254.hg.1 | MGAT4B |
| TC05002138.hg.1 | 3.74 | JUC05015246.hg.1 | MGAT4B |
| TC05002138.hg.1 | 3.61 | PSR05029902.hg.1 | MGAT4B |
| TC05002138.hg.1 | 3.07 | PSR05029925.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.97 | PSR05029928.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.89 | PSR05029881.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.82 | PSR05029893.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.69 | PSR05029935.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.68 | JUC05015256.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.62 | PSR05029913.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.51 | PSR05029932.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.49 | PSR05029918.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.26 | PSR05029883.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.23 | PSR05029931.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.16 | PSR05029941.hg.1 | MGAT4B |
| TC05002138.hg.1 | 2.04 | PSR05029927.hg.1 | MGAT4B |
| TC07000125.hg.1 | 4.96 | JUC07000885.hg.1 | ITGB8 |
| TC07000125.hg.1 | 4.58 | JUC07000877.hg.1 | ITGB8 |
| TC07000125.hg.1 | 4.39 | PSR07001904.hg.1 | ITGB8 |
| TC07000125.hg.1 | 4.23 | PSR07001906.hg.1 | ITGB8 |
| TC07000125.hg.1 | 4.16 | PSR07001902.hg.1 | ITGB8 |
| TC07000125.hg.1 | 3.66 | PSR07001907.hg.1 | ITGB8 |
| TC07000125.hg.1 | 3.43 | JUC07000886.hg.1 | ITGB8 |
| TC07000125.hg.1 | 3.27 | PSR07001914.hg.1 | ITGB8 |
| TC07000125.hg.1 | 3.19 | JUC07000879.hg.1 | ITGB8 |
| TC07000125.hg.1 | 3.13 | PSR07001912.hg.1 | ITGB8 |
| TC07000125.hg.1 | 2.74 | PSR07001905.hg.1 | ITGB8 |
| TC07000125.hg.1 | 2.42 | PSR07001909.hg.1 | ITGB8 |
| TC07000125.hg.1 | 2.28 | PSR07001923.hg.1 | ITGB8 |
| TC07000125.hg.1 | 2.11 | JUC07000881.hg.1 | ITGB8 |
| TC07000125.hg.1 | -2.05 | JUC07000890.hg.1 | ITGB8 |
| TC07000125.hg.1 | -2.08 | PSR07001927.hg.1 | ITGB8 |
| TC07000125.hg.1 | -2.32 | PSR07001910.hg.1 | ITGB8 |
| TC07000125.hg.1 | -2.32 | JUC07000883.hg.1 | ITGB8 |
| TC07000125.hg.1 | -2.5 | JUC07000884.hg.1 | ITGB8 |
| TC07000125.hg.1 | -2.75 | JUC07000882.hg.1 | ITGB8 |
| TC07000125.hg.1 | -3.74 | JUC07000889.hg.1 | ITGB8 |
| TC12001978.hg.1 | 4.96 | JUC12014468.hg.1 | C12orf51 |
| TC12001978.hg.1 | 2.47 | JUC12014459.hg.1 | C12orf51 |
| TC12001978.hg.1 | 2.2 | JUC12014471.hg.1 | C12orf51 |
| TC12001978.hg.1 | 2.16 | JUC12014480.hg.1 | C12orf51 |
| TC12001978.hg.1 | 2.01 | PSR12025898.hg.1 | C12orf51 |
| TC12001978.hg.1 | -3.78 | JUC12014485.hg.1 | C12orf51 |
| TC20000264.hg.1 | 4.95 | JUC20002075.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 4.4 | JUC20002037.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 3.71 | JUC20002076.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 3.41 | JUC20002059.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.55 | PSR20003585.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.5 | PSR20003595.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.36 | JUC20002038.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.35 | JUC20002032.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.25 | JUC20002074.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.22 | JUC20002054.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.12 | PSR20003592.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.1 | PSR20003597.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.08 | JUC20002021.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.07 | JUC20002069.hg.1 | EPB41L1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC20000264.hg.1 | 2.01 | PSR20003591.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2.01 | JUC20002072.hg.1 | EPB41L1 |
| TC20000264.hg.1 | 2 | PSR20003598.hg.1 | EPB41L1 |
| TC09000417.hg.1 | 4.92 | JUC09002436.hg.1 | SECISBP2 |
| TC09000417.hg.1 | 2.77 | JUC09002432.hg.1 | SECISBP2 |
| TC09000417.hg.1 | 2.37 | PSR09004444.hg.1 | SECISBP2 |
| TC09000417.hg.1 | 2.12 | PSR09004446.hg.1 | SECISBP2 |
| TC09000417.hg.1 | 2.09 | JUC09002424.hg.1 | SECISBP2 |
| TC09000417.hg.1 | 2 | JUC09002443.hg.1 | SECISBP2 |
| TC06000979.hg.1 | 4.91 | JUC06005564.hg.1 | TMEM200A |
| TC06000979.hg.1 | 3.71 | JUC06005565.hg.1 | TMEM200A |
| TC06000979.hg.1 | 3.58 | PSR06011526.hg.1 | TMEM200A |
| TC06000979.hg.1 | -2.11 | PSR06011521.hg.1 | TMEM200A |
| TC06000979.hg.1 | -3.09 | PSR06011518.hg.1 | TMEM200A |
| TC06000979.hg.1 | -3.26 | PSR06011519.hg.1 | TMEM200A |
| TC06001027.hg.1 | 4.91 | PSR06012002.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 3.73 | PSR06012003.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 3.72 | JUC06005857.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 3.15 | JUC06005858.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 2.88 | PSR06012008.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 2.87 | JUC06005848.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 2.55 | JUC06005856.hg.1 | TNFAIP3 |
| TC06001027.hg.1 | 2.01 | PSR06012020.hg.1 | TNFAIP3 |
| TC07000018.hg.1 | 4.91 | PSR07000251.hg.1 | GPER |
| TC07000018.hg.1 | 3.31 | PSR07000252.hg.1 | GPER |
| TC07000018.hg.1 | 3.23 | PSR07000270.hg.1 | GPER |
| TC07000018.hg.1 | 2.76 | PSR07000264.hg.1 | GPER |
| TC07000018.hg.1 | 2.69 | PSR07000254.hg.1 | GPER |
| TC07000018.hg.1 | 2.42 | PSR07000268.hg.1 | GPER |
| TC07000018.hg.1 | 2.3 | JUC07000071.hg.1 | GPER |
| TC07000018.hg.1 | 2.22 | JUC07000070.hg.1 | GPER |
| TC07000018.hg.1 | 2.19 | JUC07000074.hg.1 | GPER |
| TC07000018.hg.1 | 2.12 | PSR07000253.hg.1 | GPER |
| TC07000018.hg.1 | 2.02 | PSR07000269.hg.1 | GPER |
| TC07000018.hg.1 | -3.05 | JUC07000072.hg.1 | GPER |
| TC0X000261.hg.1 | 4.91 | PSR0X003327.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 3.67 | JUC0X001727.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 3.3 | PSR0X003311.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.34 | PSR0X003350.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.23 | PSR0X003335.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.22 | PSR0X003346.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.2 | PSR0X003250.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.11 | PSR0X003299.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.04 | PSR0X003249.hg.1 | HDAC6 |
| TC0X000261.hg.1 | 2.01 | PSR0X003300.hg.1 | HDAC6 |
| TC0X000261.hg.1 | -2.12 | JUC0X001737.hg.1 | HDAC6 |
| TC0X000261.hg.1 | -2.14 | PSR0X003279.hg.1 | HDAC6 |
| TC01000580.hg.1 | 4.9 | JUC01005062.hg.1 | TSPAN1 |
| TC01000580.hg.1 | 3.19 | JUC01005054.hg.1 | TSPAN1 |
| TC01000580.hg.1 | 3.14 | JUC01005057.hg.1 | TSPAN1 |
| TC01000580.hg.1 | 2.2 | PSR01009873.hg.1 | TSPAN1 |
| TC01000580.hg.1 | 2.16 | JUC01005056.hg.1 | TSPAN1 |
| TC01000580.hg.1 | 2.09 | PSR01009872.hg.1 | TSPAN1 |
| TC01000580.hg.1 | -2.12 | PSR01009868.hg.1 | TSPAN1 |
| TC01001966.hg.1 | 4.9 | JUC01016573.hg.1 | FMN2 |
| TC01001966.hg.1 | 3.76 | JUC01016559.hg.1 | FMN2 |
| TC01001966.hg.1 | 3.42 | PSR01030490.hg.1 | FMN2 |
| TC01001966.hg.1 | 3.11 | PSR01030479.hg.1 | FMN2 |

| | | | |
|-----------------|-------|------------------|--------|
| TC01001966.hg.1 | 3.08 | JUC01016586.hg.1 | FMN2 |
| TC01001966.hg.1 | 3.03 | PSR01030512.hg.1 | FMN2 |
| TC01001966.hg.1 | 3 | PSR01030482.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.83 | PSR01030492.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.73 | JUC01016571.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.7 | JUC01016560.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.63 | JUC01016580.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.52 | PSR01030503.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.49 | JUC01016579.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.42 | JUC01016577.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.27 | PSR01030496.hg.1 | FMN2 |
| TC01001966.hg.1 | 2.22 | PSR01030493.hg.1 | FMN2 |
| TC01001966.hg.1 | -2.28 | JUC01016587.hg.1 | FMN2 |
| TC01001966.hg.1 | -4.54 | JUC01016568.hg.1 | FMN2 |
| TC03001071.hg.1 | 4.9 | PSR03018702.hg.1 | HES1 |
| TC03001071.hg.1 | 4.68 | PSR03018708.hg.1 | HES1 |
| TC03001071.hg.1 | 4.55 | PSR03018710.hg.1 | HES1 |
| TC03001071.hg.1 | 4.23 | JUC03009497.hg.1 | HES1 |
| TC03001071.hg.1 | -2.35 | PSR03018706.hg.1 | HES1 |
| TC03001071.hg.1 | -3.28 | JUC03009494.hg.1 | HES1 |
| TC03001071.hg.1 | -3.88 | JUC03009495.hg.1 | HES1 |
| TC02001279.hg.1 | 4.89 | JUC02010542.hg.1 | RPL37A |
| TC02001279.hg.1 | 2.14 | PSR02019567.hg.1 | RPL37A |
| TC02001279.hg.1 | -2.17 | JUC02010540.hg.1 | RPL37A |
| TC02001279.hg.1 | -2.77 | PSR02019590.hg.1 | RPL37A |
| TC02001279.hg.1 | -3.97 | JUC02010545.hg.1 | RPL37A |
| TC02002637.hg.1 | 4.89 | JUC02022087.hg.1 | STK17B |
| TC02002637.hg.1 | 4.12 | PSR02042265.hg.1 | STK17B |
| TC02002637.hg.1 | 3.26 | PSR02042267.hg.1 | STK17B |
| TC02002637.hg.1 | 2.46 | PSR02042266.hg.1 | STK17B |
| TC02002637.hg.1 | 2.38 | PSR02042260.hg.1 | STK17B |
| TC02002637.hg.1 | -2.54 | PSR02042249.hg.1 | STK17B |
| TC16000193.hg.1 | 4.89 | JUC16001502.hg.1 | ABCC1 |
| TC16000193.hg.1 | 3.35 | PSR16002869.hg.1 | ABCC1 |
| TC16000193.hg.1 | 3.11 | JUC16001504.hg.1 | ABCC1 |
| TC16000193.hg.1 | 2.72 | JUC16001495.hg.1 | ABCC1 |
| TC16000193.hg.1 | 2.47 | JUC16001498.hg.1 | ABCC1 |
| TC16000193.hg.1 | 2.43 | PSR16002884.hg.1 | ABCC1 |
| TC16000193.hg.1 | 2.22 | JUC16001483.hg.1 | ABCC1 |
| TC16000193.hg.1 | 2.22 | JUC16001506.hg.1 | ABCC1 |
| TC16000193.hg.1 | 2.05 | PSR16002860.hg.1 | ABCC1 |
| TC16000193.hg.1 | -2.68 | JUC16001480.hg.1 | ABCC1 |
| TC16000193.hg.1 | -3.29 | JUC16001505.hg.1 | ABCC1 |
| TC09000201.hg.1 | 4.88 | JUC09001222.hg.1 | RECK |
| TC09000201.hg.1 | -2.87 | PSR09002290.hg.1 | RECK |
| TC09000201.hg.1 | -2.99 | JUC09001216.hg.1 | RECK |
| TC09000201.hg.1 | -3.67 | JUC09001232.hg.1 | RECK |
| TC09000005.hg.1 | 4.87 | JUC09000079.hg.1 | KANK1 |
| TC09000005.hg.1 | 2.08 | JUC09000081.hg.1 | KANK1 |
| TC09000005.hg.1 | 2.06 | JUC09000076.hg.1 | KANK1 |
| TC09000005.hg.1 | -2.04 | PSR09000140.hg.1 | KANK1 |
| TC09000005.hg.1 | -2.21 | JUC09000084.hg.1 | KANK1 |
| TC09000005.hg.1 | -2.23 | JUC09000090.hg.1 | KANK1 |
| TC09000005.hg.1 | -2.42 | PSR09000131.hg.1 | KANK1 |
| TC09000005.hg.1 | -2.43 | JUC09000098.hg.1 | KANK1 |
| TC09000005.hg.1 | -2.63 | PSR09000123.hg.1 | KANK1 |
| TC09000005.hg.1 | -3.42 | JUC09000077.hg.1 | KANK1 |
| TC09000005.hg.1 | -6.44 | JUC09000089.hg.1 | KANK1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC20000108.hg.1 | 4.87 | PSR20001425.hg.1 | PCSK2 |
| TC20000108.hg.1 | 3.72 | PSR20001427.hg.1 | PCSK2 |
| TC20000108.hg.1 | 3.32 | PSR20001431.hg.1 | PCSK2 |
| TC20000108.hg.1 | 3.01 | JUC20000749.hg.1 | PCSK2 |
| TC20000108.hg.1 | -2.13 | JUC20000742.hg.1 | PCSK2 |
| TC20000108.hg.1 | -2.27 | JUC20000745.hg.1 | PCSK2 |
| TC01001112.hg.1 | 4.86 | JUC01009670.hg.1 | CHD1L |
| TC01001112.hg.1 | 4.67 | JUC01009657.hg.1 | CHD1L |
| TC01001112.hg.1 | 2.61 | JUC01009667.hg.1 | CHD1L |
| TC01001112.hg.1 | 2.59 | PSR01017585.hg.1 | CHD1L |
| TC01001112.hg.1 | 2.26 | PSR01017558.hg.1 | CHD1L |
| TC01001112.hg.1 | 2.24 | JUC01009655.hg.1 | CHD1L |
| TC01001112.hg.1 | 2.12 | JUC01009672.hg.1 | CHD1L |
| TC01001112.hg.1 | -2.46 | JUC01009689.hg.1 | CHD1L |
| TC01001112.hg.1 | -2.58 | JUC01009665.hg.1 | CHD1L |
| TC02001874.hg.1 | 4.85 | PSR02029944.hg.1 | LOC1001294 |
| TC02001874.hg.1 | 3.11 | PSR02029943.hg.1 | LOC1001294 |
| TC02001874.hg.1 | 2.44 | JUC02015733.hg.1 | LOC1001294 |
| TC02001874.hg.1 | 2.23 | PSR02029940.hg.1 | LOC1001294 |
| TC02002541.hg.1 | 4.85 | JUC02021260.hg.1 | WIPF1 |
| TC02002541.hg.1 | 4.67 | JUC02021276.hg.1 | WIPF1 |
| TC02002541.hg.1 | 3.64 | JUC02021256.hg.1 | WIPF1 |
| TC02002541.hg.1 | 2.16 | JUC02021282.hg.1 | WIPF1 |
| TC02002541.hg.1 | 2.1 | JUC02021264.hg.1 | WIPF1 |
| TC02002541.hg.1 | 2.05 | PSR02040354.hg.1 | WIPF1 |
| TC02002541.hg.1 | -3.66 | PSR02040364.hg.1 | WIPF1 |
| TC02002823.hg.1 | 4.85 | PSR02045569.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 4.73 | PSR02045571.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 4.58 | JUC02023773.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 4.23 | PSR02045565.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 4.05 | JUC02023781.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 3.57 | PSR02045559.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 3.29 | PSR02045566.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 3.22 | PSR02045575.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 3.04 | PSR02045535.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 2.89 | PSR02045563.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 2.53 | PSR02045567.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 2.22 | JUC02023780.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 2.2 | JUC02023784.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 2.06 | PSR02045570.hg.1 | SERPINE2 |
| TC02002823.hg.1 | 2 | JUC02023769.hg.1 | SERPINE2 |
| TC02002823.hg.1 | -2.83 | JUC02023788.hg.1 | SERPINE2 |
| TC07001895.hg.1 | 4.85 | PSR07029420.hg.1 | PTN, LOC100 |
| TC07001895.hg.1 | 2.99 | PSR07029413.hg.1 | PTN, LOC100 |
| TC07001895.hg.1 | 2.12 | PSR07029417.hg.1 | PTN, LOC100 |
| TC07001895.hg.1 | -2.5 | PSR07029414.hg.1 | PTN, LOC100 |
| TC07001895.hg.1 | -2.63 | PSR07029416.hg.1 | PTN, LOC100 |
| TC07001895.hg.1 | -3.28 | JUC07014519.hg.1 | PTN, LOC100 |
| TC07001895.hg.1 | -3.41 | JUC07014518.hg.1 | PTN, LOC100 |
| TC04001014.hg.1 | 4.84 | JUC04007430.hg.1 | AFAP1 |
| TC04001014.hg.1 | 2.68 | JUC04007434.hg.1 | AFAP1 |
| TC04001014.hg.1 | 2.46 | JUC04007422.hg.1 | AFAP1 |
| TC04001014.hg.1 | 2.34 | PSR04013943.hg.1 | AFAP1 |
| TC04001014.hg.1 | -2.03 | PSR04013969.hg.1 | AFAP1 |
| TC04001014.hg.1 | -2.34 | JUC04007418.hg.1 | AFAP1 |
| TC11000063.hg.1 | 4.84 | JUC11000604.hg.1 | CD81 |
| TC11000063.hg.1 | 2.3 | PSR11001200.hg.1 | CD81 |
| TC02002428.hg.1 | 4.82 | JUC02019898.hg.1 | NEB |

| | | | |
|-----------------|-------|------------------|----------|
| TC02002428.hg.1 | 3.09 | JUC02019999.hg.1 | NEB |
| TC02002428.hg.1 | 3.09 | JUC02020002.hg.1 | NEB |
| TC02002428.hg.1 | 3.09 | JUC02020036.hg.1 | NEB |
| TC02002428.hg.1 | 2.99 | JUC02019963.hg.1 | NEB |
| TC02002428.hg.1 | 2.99 | JUC02019966.hg.1 | NEB |
| TC02002428.hg.1 | 2.99 | JUC02019968.hg.1 | NEB |
| TC02002428.hg.1 | 2.69 | PSR02038241.hg.1 | NEB |
| TC02002428.hg.1 | 2.45 | JUC02020029.hg.1 | NEB |
| TC02002428.hg.1 | 2.14 | PSR02038097.hg.1 | NEB |
| TC02002428.hg.1 | 2.09 | PSR02038202.hg.1 | NEB |
| TC02002428.hg.1 | 2.05 | PSR02038245.hg.1 | NEB |
| TC02002428.hg.1 | 2.03 | JUC02019943.hg.1 | NEB |
| TC02002428.hg.1 | 2.03 | JUC02019946.hg.1 | NEB |
| TC02002428.hg.1 | 2.03 | JUC02019948.hg.1 | NEB |
| TC02002428.hg.1 | -2.04 | JUC02019902.hg.1 | NEB |
| TC02002428.hg.1 | -2.47 | PSR02038296.hg.1 | NEB |
| TC13000678.hg.1 | 4.82 | JUC13004567.hg.1 | INTS6 |
| TC13000678.hg.1 | 2.33 | PSR13007854.hg.1 | INTS6 |
| TC13000678.hg.1 | -2.16 | JUC13004562.hg.1 | INTS6 |
| TC06001915.hg.1 | 4.8 | JUC06011405.hg.1 | KIAA1009 |
| TC06001915.hg.1 | 2.14 | JUC06011431.hg.1 | KIAA1009 |
| TC06001915.hg.1 | 2.13 | JUC06011426.hg.1 | KIAA1009 |
| TC06001915.hg.1 | 2.09 | JUC06011423.hg.1 | KIAA1009 |
| TC06001915.hg.1 | 2.05 | JUC06011416.hg.1 | KIAA1009 |
| TC06001915.hg.1 | 2.03 | JUC06011435.hg.1 | KIAA1009 |
| TC06001915.hg.1 | -2.14 | PSR06023409.hg.1 | KIAA1009 |
| TC06001915.hg.1 | -2.16 | JUC06011434.hg.1 | KIAA1009 |
| TC13001722.hg.1 | 4.8 | JUC13008429.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 4.61 | PSR13006172.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 4.16 | JUC13008432.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 3.75 | JUC13008437.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 3.16 | PSR13006168.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.95 | PSR13006165.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.94 | PSR13006159.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.26 | PSR13006167.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.15 | PSR13006166.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.09 | PSR13006171.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.06 | PSR13006155.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | 2.05 | PSR13006161.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | -2.06 | JUC13008431.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | -2.31 | PSR13006162.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | -2.67 | PSR13006154.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | -3.15 | JUC13008428.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | -3.81 | JUC13008427.hg.1 | N4BP2L1 |
| TC13001722.hg.1 | -3.94 | JUC13008435.hg.1 | N4BP2L1 |
| TC14002310.hg.1 | 4.8 | PSR14007438.hg.1 | BDKRB2 |
| TC14002310.hg.1 | 4.61 | PSR14007440.hg.1 | BDKRB2 |
| TC14002310.hg.1 | 3.22 | PSR14007448.hg.1 | BDKRB2 |
| TC14002310.hg.1 | 3.15 | PSR14007447.hg.1 | BDKRB2 |
| TC14002310.hg.1 | 2.99 | PSR14007442.hg.1 | BDKRB2 |
| TC14002310.hg.1 | 2.67 | PSR14007451.hg.1 | BDKRB2 |
| TC14002310.hg.1 | 2.56 | JUC14011897.hg.1 | BDKRB2 |
| TC20000357.hg.1 | 4.8 | JUC20002778.hg.1 | UBE2C |
| TC20000357.hg.1 | 4.32 | PSR20005117.hg.1 | UBE2C |
| TC20000357.hg.1 | 4.06 | PSR20005096.hg.1 | UBE2C |
| TC20000357.hg.1 | 3.07 | PSR20005105.hg.1 | UBE2C |
| TC20000357.hg.1 | 2.69 | PSR20005116.hg.1 | UBE2C |
| TC20000357.hg.1 | 2.45 | PSR20005104.hg.1 | UBE2C |

| | | | |
|-----------------|-------|------------------|------------|
| TC20000357.hg.1 | 2.31 | PSR20005103.hg.1 | UBE2C |
| TC20000357.hg.1 | 2.31 | JUC20002775.hg.1 | UBE2C |
| TC20000357.hg.1 | 2.06 | PSR20005115.hg.1 | UBE2C |
| TC17000532.hg.1 | 4.79 | JUC17003619.hg.1 | TUBG2 |
| TC17000532.hg.1 | 3.45 | PSR17006447.hg.1 | TUBG2 |
| TC17000532.hg.1 | 3.21 | PSR17006450.hg.1 | TUBG2 |
| TC17000532.hg.1 | 2.13 | JUC17003621.hg.1 | TUBG2 |
| TC17000532.hg.1 | -2.25 | JUC17003611.hg.1 | TUBG2 |
| TC03001670.hg.1 | 4.78 | JUC03014949.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 4.36 | JUC03014951.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 4.05 | JUC03014966.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 3.86 | JUC03014963.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 3.22 | JUC03014983.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 3.19 | PSR03030160.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.65 | JUC03014962.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.49 | JUC03014981.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.4 | JUC03014982.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.24 | JUC03014970.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.1 | PSR03030162.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.07 | PSR03030156.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.04 | PSR03030144.hg.1 | ZBTB20 |
| TC03001670.hg.1 | 2.04 | PSR03030164.hg.1 | ZBTB20 |
| TC03001670.hg.1 | -2.8 | JUC03014964.hg.1 | ZBTB20 |
| TC02001483.hg.1 | 4.77 | PSR02024188.hg.1 | ATG4B |
| TC02001483.hg.1 | -2.35 | PSR02024150.hg.1 | ATG4B |
| TC02001483.hg.1 | -2.62 | JUC02012566.hg.1 | ATG4B |
| TC03003317.hg.1 | 4.77 | JUC03023019.hg.1 | P4HTM |
| TC03003317.hg.1 | 3.56 | JUC03023023.hg.1 | P4HTM |
| TC03003317.hg.1 | 2.53 | JUC03023016.hg.1 | P4HTM |
| TC03003317.hg.1 | 2.15 | PSR03005808.hg.1 | P4HTM |
| TC03003317.hg.1 | 2.14 | PSR03005793.hg.1 | P4HTM |
| TC03003317.hg.1 | 2.08 | PSR03005794.hg.1 | P4HTM |
| TC03003317.hg.1 | 2.07 | PSR03005797.hg.1 | P4HTM |
| TC06000991.hg.1 | 4.77 | PSR06011703.hg.1 | LOC1005072 |
| TC06000991.hg.1 | 3.56 | JUC06005670.hg.1 | LOC1005072 |
| TC06000991.hg.1 | 3.09 | JUC06005669.hg.1 | LOC1005072 |
| TC06000991.hg.1 | 2.51 | PSR06011704.hg.1 | LOC1005072 |
| TC06000991.hg.1 | -2.18 | PSR06011705.hg.1 | LOC1005072 |
| TC13000025.hg.1 | 4.77 | JUC13000116.hg.1 | IFT88 |
| TC13000025.hg.1 | 3.38 | JUC13000094.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.91 | JUC13000093.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.74 | JUC13000120.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.6 | PSR13000189.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.54 | JUC13000096.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.45 | JUC13000103.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.4 | JUC13000102.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.23 | PSR13000162.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.2 | PSR13000158.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.17 | JUC13000100.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.16 | JUC13000099.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.15 | JUC13000108.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.09 | JUC13000117.hg.1 | IFT88 |
| TC13000025.hg.1 | 2.08 | PSR13000177.hg.1 | IFT88 |
| TC13000025.hg.1 | -2.09 | JUC13000123.hg.1 | IFT88 |
| TC13000025.hg.1 | -2.16 | JUC13000112.hg.1 | IFT88 |
| TC13000025.hg.1 | -2.81 | JUC13000121.hg.1 | IFT88 |
| TC15002784.hg.1 | 4.77 | PSR15000322.hg.1 | SNRPN, SNU |
| TC15002784.hg.1 | 3.95 | JUC15013593.hg.1 | SNRPN, SNU |

| | | | |
|-----------------|-------|------------------|-------------|
| TC15002784.hg.1 | 2.3 | JUC15013589.hg.1 | SNRPN, SNU |
| TC15002784.hg.1 | -2.53 | JUC15013578.hg.1 | SNRPN, SNU |
| TC04001380.hg.1 | 4.76 | PSR04019319.hg.1 | FAM13A |
| TC04001380.hg.1 | 4.61 | JUC04010131.hg.1 | FAM13A |
| TC04001380.hg.1 | 4.61 | JUC04010144.hg.1 | FAM13A |
| TC04001380.hg.1 | 4.22 | JUC04010151.hg.1 | FAM13A |
| TC04001380.hg.1 | 4.2 | JUC04010135.hg.1 | FAM13A |
| TC04001380.hg.1 | 4.1 | JUC04010125.hg.1 | FAM13A |
| TC04001380.hg.1 | 4 | JUC04010122.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.91 | PSR04019316.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.87 | PSR04019312.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.62 | PSR04019315.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.57 | JUC04010146.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.41 | JUC04010127.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.4 | PSR04019302.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.35 | PSR04019304.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.34 | PSR04019310.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.31 | PSR04019314.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.25 | PSR04019318.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.19 | PSR04019306.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.19 | JUC04010117.hg.1 | FAM13A |
| TC04001380.hg.1 | 3.18 | PSR04019325.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.83 | JUC04010154.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.58 | PSR04019320.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.54 | JUC04010143.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.52 | PSR04019311.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.5 | JUC04010156.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.32 | PSR04019308.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.19 | PSR04019313.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.13 | PSR04019301.hg.1 | FAM13A |
| TC04001380.hg.1 | 2.1 | PSR04019307.hg.1 | FAM13A |
| TC04001380.hg.1 | -2.7 | PSR04019260.hg.1 | FAM13A |
| TC04001380.hg.1 | -2.71 | JUC04010145.hg.1 | FAM13A |
| TC04001380.hg.1 | -4.05 | PSR04019294.hg.1 | FAM13A |
| TC04001380.hg.1 | -7.19 | JUC04010124.hg.1 | FAM13A |
| TC17001895.hg.1 | 4.76 | JUC17014420.hg.1 | RNF157 |
| TC17001895.hg.1 | 2.43 | JUC17014425.hg.1 | RNF157 |
| TC17001895.hg.1 | 2.39 | PSR17025677.hg.1 | RNF157 |
| TC17001895.hg.1 | 2.08 | JUC17014421.hg.1 | RNF157 |
| TC17001895.hg.1 | -2.05 | JUC17014423.hg.1 | RNF157 |
| TC17001895.hg.1 | -2.59 | JUC17014418.hg.1 | RNF157 |
| TC01000440.hg.1 | 4.74 | JUC01003544.hg.1 | ZNF362 |
| TC01000440.hg.1 | -2.12 | JUC01003551.hg.1 | ZNF362 |
| TC01000440.hg.1 | -2.4 | PSR01006832.hg.1 | ZNF362 |
| TC01000769.hg.1 | 4.74 | JUC01006425.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 4.21 | JUC01006417.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 4.18 | JUC01006437.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 3.81 | JUC01006409.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 3.39 | JUC01006402.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 3.09 | JUC01006406.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.78 | PSR01012244.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.57 | PSR01012252.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.45 | PSR01012254.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.35 | PSR01012231.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.33 | PSR01012251.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.33 | PSR01012271.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.27 | JUC01006408.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2.21 | PSR01012225.hg.1 | FPGT-TNNI3I |

| | | | |
|-----------------|-------|------------------|------------------------|
| TC01000769.hg.1 | 2.12 | JUC01006438.hg.1 | FPGT-TNNI3I |
| TC01000769.hg.1 | 2 | PSR01012266.hg.1 | FPGT-TNNI3I |
| TC01002300.hg.1 | 4.74 | JUC01018939.hg.1 | CAPZB |
| TC01002300.hg.1 | 2.86 | PSR01035269.hg.1 | CAPZB |
| TC01002300.hg.1 | 2.08 | PSR01035271.hg.1 | CAPZB |
| TC01002300.hg.1 | -2.05 | JUC01018945.hg.1 | CAPZB |
| TC01002300.hg.1 | -2.24 | JUC01018958.hg.1 | CAPZB |
| TC01002300.hg.1 | -2.33 | JUC01018955.hg.1 | CAPZB |
| TC01002300.hg.1 | -2.67 | JUC01018949.hg.1 | CAPZB |
| TC6_apd_hap1000 | 4.74 | PSR6_apd_hap1000 | HLA-H |
| TC6_apd_hap1000 | 2.94 | JUC6_apd_hap1000 | HLA-H |
| TC6_apd_hap1000 | 2.63 | PSR6_apd_hap1000 | HLA-H |
| TC6_apd_hap1000 | 2.17 | JUC6_apd_hap1000 | HLA-H |
| TC6_apd_hap1000 | 2.08 | PSR6_apd_hap1000 | HLA-H |
| TC03001298.hg.1 | 4.74 | JUC03011151.hg.1 | SCN10A |
| TC03001298.hg.1 | 2 | PSR03022308.hg.1 | SCN10A |
| TC01000649.hg.1 | 4.73 | PSR01010613.hg.1 | PODN |
| TC01000649.hg.1 | 4.67 | JUC01005490.hg.1 | PODN |
| TC01000649.hg.1 | 3.82 | PSR01010614.hg.1 | PODN |
| TC01000649.hg.1 | 2.77 | JUC01005488.hg.1 | PODN |
| TC01000649.hg.1 | 2.7 | JUC01005475.hg.1 | PODN |
| TC01000649.hg.1 | -2.2 | JUC01005491.hg.1 | PODN |
| TC01000649.hg.1 | -2.21 | JUC01005492.hg.1 | PODN |
| TC02002793.hg.1 | 4.72 | PSR02045103.hg.1 | TUBA4A |
| TC02002793.hg.1 | 4.63 | PSR02045090.hg.1 | TUBA4A |
| TC02002793.hg.1 | 4.28 | PSR02045112.hg.1 | TUBA4A |
| TC02002793.hg.1 | 4.16 | PSR02045109.hg.1 | TUBA4A |
| TC02002793.hg.1 | 4.11 | PSR02045111.hg.1 | TUBA4A |
| TC02002793.hg.1 | 3.98 | PSR02045105.hg.1 | TUBA4A |
| TC02002793.hg.1 | 3.85 | PSR02045110.hg.1 | TUBA4A |
| TC02002793.hg.1 | 3.84 | JUC02023549.hg.1 | TUBA4A |
| TC02002793.hg.1 | 3.25 | PSR02045089.hg.1 | TUBA4A |
| TC02002793.hg.1 | 2.61 | JUC02023557.hg.1 | TUBA4A |
| TC02002793.hg.1 | 2.5 | PSR02045106.hg.1 | TUBA4A |
| TC02002793.hg.1 | 2.12 | PSR02045101.hg.1 | TUBA4A |
| TC02002793.hg.1 | -2 | JUC02023553.hg.1 | TUBA4A |
| TC02002793.hg.1 | -2.53 | JUC02023556.hg.1 | TUBA4A |
| TC02002793.hg.1 | -3.23 | PSR02045096.hg.1 | TUBA4A |
| TC03003407.hg.1 | 4.72 | JUC03024561.hg.1 | PRSS46, PRSS46, PRSS46 |
| TC03003407.hg.1 | 2.44 | PSR03023287.hg.1 | PRSS46, PRSS46, PRSS46 |
| TC03003407.hg.1 | -2.04 | JUC03024558.hg.1 | PRSS46, PRSS46, PRSS46 |
| TC03003407.hg.1 | -2.1 | PSR03023284.hg.1 | PRSS46, PRSS46, PRSS46 |
| TC03003407.hg.1 | -2.18 | PSR03023292.hg.1 | PRSS46, PRSS46, PRSS46 |
| TC01003070.hg.1 | 4.71 | JUC01025590.hg.1 | |
| TC01003070.hg.1 | 3.96 | JUC01025618.hg.1 | |
| TC01003070.hg.1 | 3.72 | JUC01025612.hg.1 | |
| TC01003070.hg.1 | 3.69 | JUC01025603.hg.1 | |
| TC01003070.hg.1 | 3.38 | PSR01047722.hg.1 | |
| TC01003070.hg.1 | 3.31 | JUC01025595.hg.1 | |
| TC01003070.hg.1 | 3.28 | PSR01047732.hg.1 | |
| TC01003070.hg.1 | 2.58 | JUC01025608.hg.1 | |
| TC01003070.hg.1 | 2.56 | PSR01047727.hg.1 | |
| TC01003070.hg.1 | 2.54 | PSR01047724.hg.1 | |
| TC01003070.hg.1 | 2.41 | PSR01047714.hg.1 | |
| TC01003070.hg.1 | 2.34 | PSR01047703.hg.1 | |
| TC01003070.hg.1 | 2.31 | JUC01025614.hg.1 | |
| TC01003070.hg.1 | 2.29 | PSR01047707.hg.1 | |
| TC01003070.hg.1 | 2.27 | PSR01047702.hg.1 | |

| | | | |
|------------------|-------|-------------------|---------|
| TC01003070.hg.1 | 2.21 | PSR01047701.hg.1 | |
| TC01003070.hg.1 | 2.19 | PSR01047713.hg.1 | |
| TC01003070.hg.1 | 2.18 | PSR01047728.hg.1 | |
| TC01003070.hg.1 | 2.01 | JUC01025599.hg.1 | |
| TC06002197.hg.1 | 4.71 | JUC06013709.hg.1 | SHPRH |
| TC06002197.hg.1 | 3.66 | PSR06027584.hg.1 | SHPRH |
| TC06002197.hg.1 | 3.17 | JUC06013721.hg.1 | SHPRH |
| TC06002197.hg.1 | 2.35 | JUC06013723.hg.1 | SHPRH |
| TC06002197.hg.1 | 2.29 | PSR06027561.hg.1 | SHPRH |
| TC06002197.hg.1 | 2.27 | PSR06027582.hg.1 | SHPRH |
| TC06002197.hg.1 | 2.27 | JUC06013720.hg.1 | SHPRH |
| TC14001188.hg.1 | 4.71 | JUC14006876.hg.1 | SIX1 |
| TC14001188.hg.1 | 4.45 | PSR14013641.hg.1 | SIX1 |
| TC14001188.hg.1 | 4.19 | PSR14013639.hg.1 | SIX1 |
| TC14001188.hg.1 | 2.17 | PSR14013637.hg.1 | SIX1 |
| TC17000724.hg.1 | 4.71 | JUC17005127.hg.1 | DHX40 |
| TC17000724.hg.1 | 2.05 | JUC17005129.hg.1 | DHX40 |
| TC17000724.hg.1 | -2.01 | PSR17009430.hg.1 | DHX40 |
| TC05002052.hg.1 | 4.7 | JUC05014438.hg.1 | KCNMB1 |
| TC05002052.hg.1 | 3.91 | JUC05014437.hg.1 | KCNMB1 |
| TC05002052.hg.1 | 2.24 | PSR05028265.hg.1 | KCNMB1 |
| TC10000726.hg.1 | 4.7 | JUC10004729.hg.1 | FAM178A |
| TC10000726.hg.1 | 2.59 | PSR10008487.hg.1 | FAM178A |
| TC10000726.hg.1 | 2.54 | JUC10004743.hg.1 | FAM178A |
| TC10000726.hg.1 | 2.27 | PSR10008469.hg.1 | FAM178A |
| TC10000726.hg.1 | 2.24 | JUC10004740.hg.1 | FAM178A |
| TC10000726.hg.1 | -2.02 | JUC10004736.hg.1 | FAM178A |
| TC10000726.hg.1 | -2.12 | JUC10004732.hg.1 | FAM178A |
| TC10000726.hg.1 | -2.38 | JUC10004733.hg.1 | FAM178A |
| TC6_mann_hap400 | 4.7 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 3.21 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.99 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.91 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.87 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.79 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.78 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.74 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.65 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.6 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.43 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.42 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.34 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.28 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.27 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.26 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.2 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.19 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.17 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2.04 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | 2 | PSR6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | -2.03 | JUC6_mann_hap400 | DDR1 |
| TC6_mann_hap400 | -2.55 | PSR6_mann_hap400 | DDR1 |
| TC6_qbl_hap60000 | 4.7 | PSR6_qbl_hap60000 | DDR1 |
| TC6_qbl_hap60000 | 3.21 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.99 | PSR6_qbl_hap60000 | DDR1 |
| TC6_qbl_hap60000 | 2.91 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.87 | PSR6_qbl_hap60000 | DDR1 |
| TC6_qbl_hap60000 | 2.79 | PSR6_qbl_hap60000 | DDR1 |

| | | | |
|------------------|-------|-------------------|------------|
| TC6_qbl_hap60000 | 2.78 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.74 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2.65 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.6 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.43 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.42 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2.34 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.28 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2.27 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2.26 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.2 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2.19 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2.17 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | 2.04 | PSR6_qbl_hap60006 | DDR1 |
| TC6_qbl_hap60000 | 2 | PSR6_qbl_hap60005 | DDR1 |
| TC6_qbl_hap60000 | -2.03 | JUC6_qbl_hap60002 | DDR1 |
| TC6_qbl_hap60000 | -2.55 | PSR6_qbl_hap60006 | DDR1 |
| TC01002610.hg.1 | 4.69 | JUC01021817.hg.1 | CCDC163P |
| TC01002610.hg.1 | 3.32 | JUC01021821.hg.1 | CCDC163P |
| TC01002610.hg.1 | 2.32 | JUC01021822.hg.1 | CCDC163P |
| TC01002610.hg.1 | 2.28 | PSR01040642.hg.1 | CCDC163P |
| TC01002610.hg.1 | 2.21 | JUC01021819.hg.1 | CCDC163P |
| TC01002610.hg.1 | 2.18 | PSR01040639.hg.1 | CCDC163P |
| TC01000917.hg.1 | 4.67 | JUC01007586.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 3.31 | JUC01007597.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 3.13 | JUC01007592.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 3.09 | PSR01014346.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.86 | JUC01007595.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.72 | PSR01014368.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.64 | PSR01014349.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.59 | PSR01014381.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.16 | PSR01014350.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.16 | PSR01014351.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.13 | PSR01014353.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.11 | JUC01007587.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.11 | JUC01007604.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.11 | JUC01007615.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.06 | PSR01014354.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.06 | PSR01014395.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.05 | JUC01007612.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2.04 | JUC01007600.hg.1 | RNPC3, AMY |
| TC01000917.hg.1 | 2 | PSR01014388.hg.1 | RNPC3, AMY |
| TC05000270.hg.1 | 4.67 | PSR05003344.hg.1 | RNF180 |
| TC05000270.hg.1 | 4.13 | PSR05003334.hg.1 | RNF180 |
| TC05000270.hg.1 | 3.33 | PSR05003335.hg.1 | RNF180 |
| TC05000270.hg.1 | 3.27 | PSR05003340.hg.1 | RNF180 |
| TC05000270.hg.1 | 3.1 | PSR05003331.hg.1 | RNF180 |
| TC05000270.hg.1 | 3.09 | PSR05003346.hg.1 | RNF180 |
| TC05000270.hg.1 | 2.87 | PSR05003341.hg.1 | RNF180 |
| TC05000270.hg.1 | 2.78 | PSR05003347.hg.1 | RNF180 |
| TC05000270.hg.1 | 2.29 | JUC05001791.hg.1 | RNF180 |
| TC05000270.hg.1 | 2.2 | PSR05003345.hg.1 | RNF180 |
| TC05000270.hg.1 | 2.17 | PSR05003338.hg.1 | RNF180 |
| TC11000753.hg.1 | 4.67 | JUC11005069.hg.1 | |
| TC11000753.hg.1 | 2.22 | PSR11009788.hg.1 | |
| TC11000753.hg.1 | 2.08 | PSR11009786.hg.1 | |
| TC11001884.hg.1 | 4.67 | PSR11022098.hg.1 | SNORD27, S |
| TC11001884.hg.1 | 3.06 | JUC11011681.hg.1 | SNORD27, S |

| | | | |
|------------------|-------|-------------------|------------|
| TC11001884.hg.1 | 2.3 | PSR11022178.hg.1 | SNORD27, S |
| TC11001884.hg.1 | 2.27 | JUC11011691.hg.1 | SNORD27, S |
| TC11001884.hg.1 | 2.24 | PSR11022156.hg.1 | SNORD27, S |
| TC11001884.hg.1 | 2.22 | PSR11022124.hg.1 | SNORD27, S |
| TC11001884.hg.1 | 2.12 | PSR11022164.hg.1 | SNORD27, S |
| TC11001884.hg.1 | -2.93 | PSR11022146.hg.1 | SNORD27, S |
| TC02002638.hg.1 | 4.66 | JUC02022101.hg.1 | HECW2 |
| TC02002638.hg.1 | 2.29 | JUC02022113.hg.1 | HECW2 |
| TC02002638.hg.1 | -2.34 | PSR02042298.hg.1 | HECW2 |
| TC02002638.hg.1 | -2.48 | JUC02022114.hg.1 | HECW2 |
| TC02002638.hg.1 | -2.72 | JUC02022097.hg.1 | HECW2 |
| TC02002638.hg.1 | -2.79 | JUC02022102.hg.1 | HECW2 |
| TC02002638.hg.1 | -4.33 | JUC02022122.hg.1 | HECW2 |
| TC04001719.hg.1 | 4.66 | JUC04012592.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.98 | JUC04012591.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.81 | JUC04012564.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.45 | PSR04023761.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.32 | JUC04012578.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.06 | PSR04023751.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.06 | JUC04012589.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.06 | JUC04012590.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.01 | PSR04023780.hg.1 | DDX60L |
| TC04001719.hg.1 | 2.01 | PSR04023786.hg.1 | DDX60L |
| TC10001051.hg.1 | 4.66 | JUC10007562.hg.1 | BEND7 |
| TC10001051.hg.1 | 4.05 | JUC10007555.hg.1 | BEND7 |
| TC10001051.hg.1 | 3.21 | PSR10013072.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.72 | JUC10007569.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.69 | PSR10013077.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.48 | JUC10007567.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.34 | PSR10013073.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.16 | PSR10013057.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.16 | JUC10007559.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.06 | JUC10007563.hg.1 | BEND7 |
| TC10001051.hg.1 | 2.05 | PSR10013040.hg.1 | BEND7 |
| TC6_qbl_hap60002 | 4.66 | PSR6_qbl_hap60008 | MICA |
| TC6_qbl_hap60002 | 4.28 | JUC6_qbl_hap60021 | MICA |
| TC6_qbl_hap60002 | 3.59 | PSR6_qbl_hap60008 | MICA |
| TC6_qbl_hap60002 | 3.55 | PSR6_qbl_hap60008 | MICA |
| TC6_qbl_hap60002 | 3.15 | PSR6_qbl_hap60008 | MICA |
| TC6_qbl_hap60002 | 2.76 | JUC6_qbl_hap60021 | MICA |
| TC6_qbl_hap60002 | 2.75 | JUC6_qbl_hap60021 | MICA |
| TC6_qbl_hap60002 | 2.72 | PSR6_qbl_hap60008 | MICA |
| TC6_qbl_hap60002 | 2.36 | JUC6_qbl_hap60021 | MICA |
| TC6_qbl_hap60002 | 2.36 | JUC6_qbl_hap60021 | MICA |
| TC6_qbl_hap60002 | 2.34 | JUC6_qbl_hap60021 | MICA |
| TC6_qbl_hap60002 | 2.14 | PSR6_qbl_hap60008 | MICA |
| TC6_qbl_hap60002 | 2.07 | JUC6_qbl_hap60021 | MICA |
| TC01002821.hg.1 | 4.65 | PSR01043910.hg.1 | SSX2IP |
| TC01002821.hg.1 | 3.39 | JUC01023538.hg.1 | SSX2IP |
| TC01002821.hg.1 | 3.1 | PSR01043904.hg.1 | SSX2IP |
| TC01002821.hg.1 | 3.04 | JUC01023526.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.71 | PSR01043903.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.61 | PSR01043896.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.56 | JUC01023530.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.46 | PSR01043906.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.44 | JUC01023543.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.41 | PSR01043902.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.37 | PSR01043873.hg.1 | SSX2IP |

| | | | |
|-----------------|-------|------------------|----------|
| TC01002821.hg.1 | 2.34 | PSR01043907.hg.1 | SSX2IP |
| TC01002821.hg.1 | 2.02 | JUC01023532.hg.1 | SSX2IP |
| TC01002821.hg.1 | -2.51 | PSR01043888.hg.1 | SSX2IP |
| TC01002821.hg.1 | -2.65 | JUC01023536.hg.1 | SSX2IP |
| TC03001286.hg.1 | 4.65 | JUC03011021.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 4.49 | JUC03011022.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 4.41 | PSR03022079.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 3.41 | JUC03011030.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 2.53 | JUC03011017.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 2.39 | PSR03022087.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 2.26 | PSR03022058.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 2.22 | PSR03022074.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | 2.05 | PSR03022080.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | -2.26 | JUC03011011.hg.1 | LRRFIP2 |
| TC03001286.hg.1 | -2.26 | JUC03011041.hg.1 | LRRFIP2 |
| TC04001805.hg.1 | 4.65 | PSR04024589.hg.1 | IRF2 |
| TC04001805.hg.1 | 4.11 | JUC04013016.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.82 | PSR04024592.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.65 | JUC04013029.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.4 | PSR04024586.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.33 | JUC04013015.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.14 | PSR04024572.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.13 | JUC04013020.hg.1 | IRF2 |
| TC04001805.hg.1 | 2.06 | PSR04024583.hg.1 | IRF2 |
| TC04001805.hg.1 | -2.04 | PSR04024577.hg.1 | IRF2 |
| TC10001201.hg.1 | 4.65 | PSR10015067.hg.1 | HNRNPF |
| TC10001201.hg.1 | 2.24 | JUC10008744.hg.1 | HNRNPF |
| TC01002971.hg.1 | 4.65 | JUC01024831.hg.1 | SLC16A4 |
| TC01002971.hg.1 | 4.31 | JUC01024830.hg.1 | SLC16A4 |
| TC01002971.hg.1 | 2 | PSR01046150.hg.1 | SLC16A4 |
| TC10000769.hg.1 | 4.64 | JUC10005077.hg.1 | CNNM2 |
| TC10000769.hg.1 | 2.2 | PSR10009152.hg.1 | CNNM2 |
| TC13000660.hg.1 | 4.64 | JUC13004397.hg.1 | CAB39L |
| TC13000660.hg.1 | 4.48 | PSR13007600.hg.1 | CAB39L |
| TC13000660.hg.1 | 3.85 | PSR13007602.hg.1 | CAB39L |
| TC13000660.hg.1 | 3.53 | PSR13007606.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.89 | PSR13007597.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.86 | JUC13004401.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.84 | PSR13007592.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.77 | JUC13004394.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.75 | JUC13004414.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.7 | PSR13007601.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.57 | JUC13004392.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.52 | PSR13007598.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.45 | PSR13007599.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.43 | PSR13007594.hg.1 | CAB39L |
| TC13000660.hg.1 | 2.01 | PSR13007587.hg.1 | CAB39L |
| TC0X000470.hg.1 | 4.63 | JUC0X003004.hg.1 | CSTF2 |
| TC0X000470.hg.1 | 2.02 | PSR0X006069.hg.1 | CSTF2 |
| TC0X000470.hg.1 | -2.14 | JUC0X003017.hg.1 | CSTF2 |
| TC0X000470.hg.1 | -2.16 | JUC0X003013.hg.1 | CSTF2 |
| TC04000754.hg.1 | 4.62 | PSR04010459.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 3.35 | PSR04010454.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 3.28 | JUC04005610.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 3.03 | PSR04010452.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 2.89 | JUC04005616.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 2.57 | JUC04005602.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 2.51 | JUC04005608.hg.1 | FAM160A1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC04000754.hg.1 | 2.28 | JUC04005603.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 2.21 | PSR04010453.hg.1 | FAM160A1 |
| TC04000754.hg.1 | 2.14 | JUC04005614.hg.1 | FAM160A1 |
| TC08000508.hg.1 | 4.62 | PSR08006955.hg.1 | STMN2 |
| TC08000508.hg.1 | -2.15 | JUC08003447.hg.1 | STMN2 |
| TC08000508.hg.1 | -2.17 | PSR08006948.hg.1 | STMN2 |
| TC08000508.hg.1 | -2.24 | PSR08006947.hg.1 | STMN2 |
| TC08000508.hg.1 | -4.4 | JUC08003449.hg.1 | STMN2 |
| TC08000508.hg.1 | -7.11 | JUC08003443.hg.1 | STMN2 |
| TC12000641.hg.1 | 4.62 | PSR12008513.hg.1 | GLIPR1L2 |
| TC12000641.hg.1 | 2.27 | JUC12004496.hg.1 | GLIPR1L2 |
| TC14001124.hg.1 | 4.62 | PSR14012816.hg.1 | PYGL |
| TC14001124.hg.1 | 4.24 | PSR14012783.hg.1 | PYGL |
| TC14001124.hg.1 | 2.36 | PSR14012815.hg.1 | PYGL |
| TC14001124.hg.1 | 2.12 | JUC14006452.hg.1 | PYGL |
| TC14001124.hg.1 | -2.48 | JUC14006467.hg.1 | PYGL |
| TC14001124.hg.1 | -2.93 | JUC14006472.hg.1 | PYGL |
| TC19001688.hg.1 | 4.62 | PSR19023044.hg.1 | DBP |
| TC19001688.hg.1 | 2.62 | PSR19023039.hg.1 | DBP |
| TC19001688.hg.1 | 2.25 | PSR19023042.hg.1 | DBP |
| TC19001688.hg.1 | -2.26 | PSR19023035.hg.1 | DBP |
| TC19001688.hg.1 | -5.06 | JUC19013149.hg.1 | DBP |
| TC01002608.hg.1 | 4.61 | PSR01040608.hg.1 | TESK2 |
| TC01002608.hg.1 | 4.18 | PSR01040626.hg.1 | TESK2 |
| TC01002608.hg.1 | 4.14 | PSR01040619.hg.1 | TESK2 |
| TC01002608.hg.1 | 3.55 | JUC01021807.hg.1 | TESK2 |
| TC01002608.hg.1 | 3.41 | JUC01021811.hg.1 | TESK2 |
| TC01002608.hg.1 | 2.9 | PSR01040625.hg.1 | TESK2 |
| TC01002608.hg.1 | 2.51 | PSR01040612.hg.1 | TESK2 |
| TC01006430.hg.1 | 4.61 | JUC01043856.hg.1 | NBPF9 |
| TC01006430.hg.1 | 2.78 | JUC01041183.hg.1 | NBPF9 |
| TC01006430.hg.1 | 2.4 | PSR01016961.hg.1 | NBPF9 |
| TC02002398.hg.1 | 4.61 | JUC02019640.hg.1 | GTDC1 |
| TC02002398.hg.1 | 2.12 | JUC02019635.hg.1 | GTDC1 |
| TC02002398.hg.1 | -2.03 | PSR02037742.hg.1 | GTDC1 |
| TC02002398.hg.1 | -2.17 | JUC02019636.hg.1 | GTDC1 |
| TC09000883.hg.1 | 4.61 | JUC09006379.hg.1 | SPATA6L |
| TC09000883.hg.1 | -2.13 | JUC09006355.hg.1 | SPATA6L |
| TC09000883.hg.1 | -2.3 | JUC09006363.hg.1 | SPATA6L |
| TC09000883.hg.1 | -2.62 | PSR09011763.hg.1 | SPATA6L |
| TC09001583.hg.1 | 4.6 | JUC09010773.hg.1 | GOLGA1 |
| TC09001583.hg.1 | 3.96 | JUC09010754.hg.1 | GOLGA1 |
| TC09001583.hg.1 | 2.52 | JUC09010762.hg.1 | GOLGA1 |
| TC09001583.hg.1 | 2.31 | JUC09010770.hg.1 | GOLGA1 |
| TC09001583.hg.1 | -3.66 | PSR09019900.hg.1 | GOLGA1 |
| TC0X000141.hg.1 | 4.6 | JUC0X000959.hg.1 | GK |
| TC0X000141.hg.1 | 2.68 | JUC0X000974.hg.1 | GK |
| TC0X000141.hg.1 | 2.66 | PSR0X001781.hg.1 | GK |
| TC0X000141.hg.1 | 2.41 | JUC0X000967.hg.1 | GK |
| TC0X000141.hg.1 | 2.09 | JUC0X000986.hg.1 | GK |
| TC0X000141.hg.1 | 2.07 | JUC0X000953.hg.1 | GK |
| TC0X000141.hg.1 | 2 | PSR0X001760.hg.1 | GK |
| TC19001760.hg.1 | 4.59 | PSR19023929.hg.1 | KLKP1 |
| TC19001760.hg.1 | -2.51 | PSR19023933.hg.1 | KLKP1 |
| TC19001760.hg.1 | -2.65 | PSR19023934.hg.1 | KLKP1 |
| TC19001760.hg.1 | -2.77 | PSR19023932.hg.1 | KLKP1 |
| TC19001760.hg.1 | -3.71 | JUC19013599.hg.1 | KLKP1 |
| TC22000816.hg.1 | 4.59 | PSR22013870.hg.1 | ST13 |

| | | | |
|-----------------|-------|------------------|------------|
| TC22000816.hg.1 | 3 | JUC22005707.hg.1 | ST13 |
| TC06001961.hg.1 | 4.58 | JUC06011831.hg.1 | FBXL4 |
| TC06001961.hg.1 | 2.53 | JUC06011823.hg.1 | FBXL4 |
| TC06001961.hg.1 | 2.44 | PSR06024158.hg.1 | FBXL4 |
| TC06001961.hg.1 | -2.6 | JUC06011827.hg.1 | FBXL4 |
| TC07001635.hg.1 | 4.58 | JUC07012382.hg.1 | BAIAP2L1 |
| TC07001635.hg.1 | 2.75 | PSR07024941.hg.1 | BAIAP2L1 |
| TC07001635.hg.1 | 2.72 | JUC07012383.hg.1 | BAIAP2L1 |
| TC07001635.hg.1 | 2.69 | PSR07024937.hg.1 | BAIAP2L1 |
| TC07001635.hg.1 | 2.67 | JUC07012372.hg.1 | BAIAP2L1 |
| TC07001635.hg.1 | 2.11 | PSR07024922.hg.1 | BAIAP2L1 |
| TC07001635.hg.1 | 2.1 | PSR07024939.hg.1 | BAIAP2L1 |
| TC14000067.hg.1 | 4.58 | JUC14000131.hg.1 | ANG, RNASE |
| TC14000067.hg.1 | 4.25 | JUC14000132.hg.1 | ANG, RNASE |
| TC14000067.hg.1 | 3.25 | PSR14000287.hg.1 | ANG, RNASE |
| TC14000067.hg.1 | 3.22 | PSR14000290.hg.1 | ANG, RNASE |
| TC14000067.hg.1 | 2.93 | JUC14000133.hg.1 | ANG, RNASE |
| TC14000067.hg.1 | 2.45 | PSR14000289.hg.1 | ANG, RNASE |
| TC14000067.hg.1 | 2.41 | PSR14000288.hg.1 | ANG, RNASE |
| TC01000685.hg.1 | 4.57 | PSR01010994.hg.1 | PRKAA2 |
| TC01000685.hg.1 | 4.1 | JUC01005640.hg.1 | PRKAA2 |
| TC01000685.hg.1 | 2.03 | JUC01005642.hg.1 | PRKAA2 |
| TC01002441.hg.1 | 4.57 | JUC01020192.hg.1 | LAPTM5 |
| TC01002441.hg.1 | 4.18 | PSR01037577.hg.1 | LAPTM5 |
| TC01002441.hg.1 | 2.9 | JUC01020188.hg.1 | LAPTM5 |
| TC01002441.hg.1 | 2.81 | PSR01037572.hg.1 | LAPTM5 |
| TC01002441.hg.1 | 2.8 | PSR01037578.hg.1 | LAPTM5 |
| TC01002441.hg.1 | 2.27 | PSR01037575.hg.1 | LAPTM5 |
| TC01002441.hg.1 | -2.81 | JUC01020184.hg.1 | LAPTM5 |
| TC01002441.hg.1 | -3.72 | PSR01037564.hg.1 | LAPTM5 |
| TC07000168.hg.1 | 4.57 | JUC07001288.hg.1 | MIR196B |
| TC07000168.hg.1 | 4.33 | PSR07002653.hg.1 | MIR196B |
| TC07000168.hg.1 | 4.26 | PSR07002644.hg.1 | MIR196B |
| TC07000168.hg.1 | 4.24 | PSR07002646.hg.1 | MIR196B |
| TC07000168.hg.1 | 2.71 | JUC07001289.hg.1 | MIR196B |
| TC07000168.hg.1 | 2.42 | PSR07002647.hg.1 | MIR196B |
| TC07000168.hg.1 | -2.04 | JUC07001287.hg.1 | MIR196B |
| TC07000235.hg.1 | 4.57 | JUC07001744.hg.1 | ANLN |
| TC07000235.hg.1 | 4.43 | PSR07003661.hg.1 | ANLN |
| TC07000235.hg.1 | 4.4 | JUC07001753.hg.1 | ANLN |
| TC07000235.hg.1 | 4.39 | PSR07003609.hg.1 | ANLN |
| TC07000235.hg.1 | 4.36 | JUC07001765.hg.1 | ANLN |
| TC07000235.hg.1 | 4.15 | PSR07003611.hg.1 | ANLN |
| TC07000235.hg.1 | 4.14 | PSR07003653.hg.1 | ANLN |
| TC07000235.hg.1 | 4.07 | PSR07003615.hg.1 | ANLN |
| TC07000235.hg.1 | 3.71 | PSR07003656.hg.1 | ANLN |
| TC07000235.hg.1 | 3.45 | JUC07001766.hg.1 | ANLN |
| TC07000235.hg.1 | 3.15 | JUC07001741.hg.1 | ANLN |
| TC07000235.hg.1 | 2.73 | PSR07003652.hg.1 | ANLN |
| TC07000235.hg.1 | 2.49 | PSR07003607.hg.1 | ANLN |
| TC07000235.hg.1 | 2.45 | PSR07003647.hg.1 | ANLN |
| TC07000235.hg.1 | 2.33 | JUC07001738.hg.1 | ANLN |
| TC07000235.hg.1 | 2.14 | PSR07003632.hg.1 | ANLN |
| TC07000235.hg.1 | 2.13 | JUC07001760.hg.1 | ANLN |
| TC07000235.hg.1 | 2.12 | JUC07001743.hg.1 | ANLN |
| TC07000235.hg.1 | 2.09 | PSR07003640.hg.1 | ANLN |
| TC08001269.hg.1 | 4.57 | JUC08008422.hg.1 | GGH |
| TC08001269.hg.1 | 3.36 | PSR08016357.hg.1 | GGH |

| | | | |
|------------------|--------|-------------------|---------|
| TC08001269.hg.1 | 3.06 | PSR08016366.hg.1 | GGH |
| TC08001269.hg.1 | 2.8 | PSR08016370.hg.1 | GGH |
| TC08001269.hg.1 | 2.8 | JUC08008412.hg.1 | GGH |
| TC08001269.hg.1 | 2.71 | PSR08016368.hg.1 | GGH |
| TC08001269.hg.1 | 2.37 | PSR08016360.hg.1 | GGH |
| TC08001269.hg.1 | -2.37 | JUC08008411.hg.1 | GGH |
| TC10001711.hg.1 | 4.57 | JUC10013107.hg.1 | FGFR2 |
| TC10001711.hg.1 | 4.53 | JUC10013115.hg.1 | FGFR2 |
| TC10001711.hg.1 | 4.4 | PSR10022638.hg.1 | FGFR2 |
| TC10001711.hg.1 | 4.36 | PSR10022618.hg.1 | FGFR2 |
| TC10001711.hg.1 | 4.28 | JUC10013109.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.94 | JUC10013111.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.7 | JUC10013089.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.6 | PSR10022641.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.17 | PSR10022620.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.15 | PSR10022617.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.08 | JUC10013105.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.07 | PSR10022639.hg.1 | FGFR2 |
| TC10001711.hg.1 | 3.03 | PSR10022592.hg.1 | FGFR2 |
| TC10001711.hg.1 | 2.83 | PSR10022615.hg.1 | FGFR2 |
| TC10001711.hg.1 | 2.48 | PSR10022626.hg.1 | FGFR2 |
| TC10001711.hg.1 | 2.48 | PSR10022631.hg.1 | FGFR2 |
| TC10001711.hg.1 | 2.42 | JUC10013096.hg.1 | FGFR2 |
| TC10001711.hg.1 | 2.41 | PSR10022587.hg.1 | FGFR2 |
| TC10001711.hg.1 | 2.41 | PSR10022637.hg.1 | FGFR2 |
| TC10001711.hg.1 | -2.06 | JUC10013124.hg.1 | FGFR2 |
| TC10001711.hg.1 | -2.06 | JUC10013125.hg.1 | FGFR2 |
| TC10001711.hg.1 | -2.48 | PSR10022579.hg.1 | FGFR2 |
| TC6_ssto_hap7000 | 4.57 | JUC6_ssto_hap7000 | BRD2 |
| TC6_ssto_hap7000 | 2.58 | JUC6_ssto_hap7000 | BRD2 |
| TC6_ssto_hap7000 | 2 | PSR6_ssto_hap7001 | BRD2 |
| TC02000386.hg.1 | 4.56 | JUC02003021.hg.1 | MEIS1 |
| TC02000386.hg.1 | 4.08 | JUC02003035.hg.1 | MEIS1 |
| TC02000386.hg.1 | 3.52 | PSR02005830.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.83 | JUC02003038.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.65 | PSR02005798.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.61 | JUC02003023.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.38 | PSR02005824.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.3 | JUC02003026.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.19 | JUC02003016.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.13 | JUC02003020.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.11 | JUC02003033.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.07 | JUC02003013.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.05 | PSR02005839.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.02 | PSR02005800.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2.01 | JUC02003036.hg.1 | MEIS1 |
| TC02000386.hg.1 | 2 | PSR02005810.hg.1 | MEIS1 |
| TC02000386.hg.1 | -2.37 | JUC02003025.hg.1 | MEIS1 |
| TC02000386.hg.1 | -3.36 | PSR02005819.hg.1 | MEIS1 |
| TC04000303.hg.1 | 4.56 | JUC04002132.hg.1 | RASL11B |
| TC04000303.hg.1 | -2.38 | PSR04004286.hg.1 | RASL11B |
| TC04000303.hg.1 | -3.23 | PSR04004291.hg.1 | RASL11B |
| TC04000303.hg.1 | -3.37 | JUC04002130.hg.1 | RASL11B |
| TC04000303.hg.1 | -11.38 | PSR04004288.hg.1 | RASL11B |
| TC01000703.hg.1 | 4.55 | JUC01005813.hg.1 | INADL |
| TC01000703.hg.1 | 3.66 | PSR01011279.hg.1 | INADL |
| TC01000703.hg.1 | 3.62 | JUC01005828.hg.1 | INADL |
| TC01000703.hg.1 | 3.46 | PSR01011213.hg.1 | INADL |

| | | | |
|-----------------|-------|------------------|---------|
| TC01000703.hg.1 | 3.18 | JUC01005805.hg.1 | INADL |
| TC01000703.hg.1 | 3.15 | PSR01011236.hg.1 | INADL |
| TC01000703.hg.1 | 3.14 | PSR01011282.hg.1 | INADL |
| TC01000703.hg.1 | 3 | JUC01005786.hg.1 | INADL |
| TC01000703.hg.1 | 2.87 | JUC01005825.hg.1 | INADL |
| TC01000703.hg.1 | 2.84 | PSR01011272.hg.1 | INADL |
| TC01000703.hg.1 | 2.81 | JUC01005836.hg.1 | INADL |
| TC01000703.hg.1 | 2.58 | PSR01011264.hg.1 | INADL |
| TC01000703.hg.1 | 2.52 | PSR01011274.hg.1 | INADL |
| TC01000703.hg.1 | 2.45 | PSR01011253.hg.1 | INADL |
| TC01000703.hg.1 | 2.4 | JUC01005820.hg.1 | INADL |
| TC01000703.hg.1 | 2.36 | PSR01011265.hg.1 | INADL |
| TC01000703.hg.1 | 2.36 | JUC01005811.hg.1 | INADL |
| TC01000703.hg.1 | 2.35 | PSR01011290.hg.1 | INADL |
| TC01000703.hg.1 | 2.27 | JUC01005821.hg.1 | INADL |
| TC01000703.hg.1 | 2.18 | PSR01011263.hg.1 | INADL |
| TC01000703.hg.1 | 2.18 | PSR01011285.hg.1 | INADL |
| TC01000703.hg.1 | 2.08 | PSR01011254.hg.1 | INADL |
| TC01000703.hg.1 | 2.04 | PSR01011262.hg.1 | INADL |
| TC01000703.hg.1 | 2 | PSR01011276.hg.1 | INADL |
| TC01000703.hg.1 | 2 | JUC01005815.hg.1 | INADL |
| TC01000703.hg.1 | -2.01 | JUC01005809.hg.1 | INADL |
| TC01000703.hg.1 | -2.09 | PSR01011245.hg.1 | INADL |
| TC01000703.hg.1 | -2.54 | JUC01005837.hg.1 | INADL |
| TC01000703.hg.1 | -2.59 | JUC01005818.hg.1 | INADL |
| TC11000150.hg.1 | 4.55 | PSR11002155.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 3.03 | PSR11002113.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.96 | PSR11002139.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.85 | JUC11000943.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.72 | PSR11002119.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.51 | PSR11002138.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.44 | PSR11002121.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.44 | PSR11002152.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.27 | PSR11002124.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.27 | PSR11002156.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.26 | PSR11002118.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.17 | JUC11000956.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | 2.05 | JUC11000931.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | -2.03 | JUC11000937.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | -2.08 | JUC11000950.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | -2.54 | JUC11000954.hg.1 | PPFIBP2 |
| TC11000150.hg.1 | -3.11 | JUC11000949.hg.1 | PPFIBP2 |
| TC14000585.hg.1 | 4.55 | JUC14003722.hg.1 | PPP4R4 |
| TC14000585.hg.1 | 3.78 | JUC14003747.hg.1 | PPP4R4 |
| TC14000585.hg.1 | 2.9 | JUC14003730.hg.1 | PPP4R4 |
| TC14000585.hg.1 | 2.9 | JUC14003744.hg.1 | PPP4R4 |
| TC14000585.hg.1 | 2.55 | JUC14003735.hg.1 | PPP4R4 |
| TC14000585.hg.1 | 2.33 | JUC14003727.hg.1 | PPP4R4 |
| TC14000585.hg.1 | 2.12 | PSR14007236.hg.1 | PPP4R4 |
| TC14000585.hg.1 | -2.14 | JUC14003740.hg.1 | PPP4R4 |
| TC01000394.hg.1 | 4.54 | PSR01006088.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.94 | PSR01006052.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.88 | PSR01006053.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.68 | PSR01006050.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.63 | PSR01006054.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.31 | PSR01006056.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.14 | JUC01003148.hg.1 | EPB41 |
| TC01000394.hg.1 | 3.08 | JUC01003147.hg.1 | EPB41 |

| | | | |
|-----------------|-------|------------------|---------|
| TC01000394.hg.1 | 3.04 | JUC01003150.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.63 | JUC01003156.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.57 | JUC01003162.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.52 | PSR01006082.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.45 | JUC01003136.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.44 | PSR01006081.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.27 | PSR01006076.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.22 | PSR01006077.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.21 | JUC01003166.hg.1 | EPB41 |
| TC01000394.hg.1 | 2.02 | JUC01003142.hg.1 | EPB41 |
| TC01000394.hg.1 | -2.04 | JUC01003163.hg.1 | EPB41 |
| TC01000394.hg.1 | -2.05 | JUC01003160.hg.1 | EPB41 |
| TC01000394.hg.1 | -2.29 | JUC01003154.hg.1 | EPB41 |
| TC01000394.hg.1 | -2.65 | JUC01003153.hg.1 | EPB41 |
| TC01001736.hg.1 | 4.54 | PSR01027147.hg.1 | CD55 |
| TC01001736.hg.1 | 3 | PSR01027129.hg.1 | CD55 |
| TC01001736.hg.1 | 3 | PSR01027138.hg.1 | CD55 |
| TC01001736.hg.1 | 2.71 | PSR01027141.hg.1 | CD55 |
| TC01001736.hg.1 | 2.4 | PSR01027145.hg.1 | CD55 |
| TC01001736.hg.1 | 2.38 | PSR01027144.hg.1 | CD55 |
| TC01001736.hg.1 | 2.36 | PSR01027140.hg.1 | CD55 |
| TC01001736.hg.1 | 2.32 | PSR01027132.hg.1 | CD55 |
| TC01001736.hg.1 | 2.25 | JUC01014542.hg.1 | CD55 |
| TC01001736.hg.1 | 2.23 | PSR01027142.hg.1 | CD55 |
| TC01001736.hg.1 | 2.09 | PSR01027143.hg.1 | CD55 |
| TC01001736.hg.1 | 2.02 | JUC01014529.hg.1 | CD55 |
| TC01001736.hg.1 | -2.32 | JUC01014537.hg.1 | CD55 |
| TC01001736.hg.1 | -2.54 | PSR01027136.hg.1 | CD55 |
| TC07000838.hg.1 | 4.54 | PSR07013178.hg.1 | CALD1 |
| TC07000838.hg.1 | 3.82 | JUC07006281.hg.1 | CALD1 |
| TC07000838.hg.1 | 3.32 | PSR07013170.hg.1 | CALD1 |
| TC07000838.hg.1 | 2.94 | PSR07013162.hg.1 | CALD1 |
| TC07000838.hg.1 | 2.79 | PSR07013169.hg.1 | CALD1 |
| TC07000838.hg.1 | 2.6 | PSR07013177.hg.1 | CALD1 |
| TC07000838.hg.1 | 2.57 | JUC07006271.hg.1 | CALD1 |
| TC07000838.hg.1 | 2.56 | PSR07013163.hg.1 | CALD1 |
| TC07000838.hg.1 | -2.1 | PSR07013154.hg.1 | CALD1 |
| TC07000838.hg.1 | -2.1 | JUC07006276.hg.1 | CALD1 |
| TC07000838.hg.1 | -2.44 | PSR07013192.hg.1 | CALD1 |
| TC07000838.hg.1 | -3.1 | PSR07013173.hg.1 | CALD1 |
| TC07000838.hg.1 | -6.4 | JUC07006280.hg.1 | CALD1 |
| TC01003719.hg.1 | 4.53 | JUC01029802.hg.1 | CHIT1 |
| TC01003719.hg.1 | 3.16 | JUC01029783.hg.1 | CHIT1 |
| TC01003719.hg.1 | 2.29 | JUC01029789.hg.1 | CHIT1 |
| TC01003719.hg.1 | 2.05 | PSR01057092.hg.1 | CHIT1 |
| TC01003719.hg.1 | 2.04 | PSR01057104.hg.1 | CHIT1 |
| TC01003719.hg.1 | -2.43 | PSR01057086.hg.1 | CHIT1 |
| TC04001001.hg.1 | 4.53 | JUC04007398.hg.1 | PPP2R2C |
| TC04001001.hg.1 | 4.37 | JUC04007382.hg.1 | PPP2R2C |
| TC04001001.hg.1 | 2.07 | PSR04013860.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -2.24 | JUC04007389.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -2.28 | PSR04013864.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -2.64 | JUC04007381.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -2.8 | JUC04007390.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -2.97 | JUC04007386.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -3.16 | PSR04013875.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -3.56 | JUC04007383.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -3.59 | PSR04013876.hg.1 | PPP2R2C |

| | | | |
|-----------------|-------|------------------|-------------|
| TC04001001.hg.1 | -4.24 | PSR04013874.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -4.68 | PSR04013858.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -4.91 | JUC04007387.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -5.6 | PSR04013856.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -5.93 | PSR04013877.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -6.75 | PSR04013862.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -6.83 | PSR04013873.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -7.51 | PSR04013871.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -7.96 | PSR04013865.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -7.98 | PSR04013869.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -8.03 | PSR04013866.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -9.08 | PSR04013872.hg.1 | PPP2R2C |
| TC04001001.hg.1 | -16.8 | JUC04007385.hg.1 | PPP2R2C |
| TC01000139.hg.1 | 4.52 | JUC01001178.hg.1 | ANGPTL7 |
| TC01000139.hg.1 | -2.04 | PSR01002181.hg.1 | ANGPTL7 |
| TC01000139.hg.1 | -3.17 | JUC01001182.hg.1 | ANGPTL7 |
| TC01000139.hg.1 | -3.63 | PSR01002188.hg.1 | ANGPTL7 |
| TC01000139.hg.1 | -4.02 | PSR01002183.hg.1 | ANGPTL7 |
| TC01000139.hg.1 | -8.75 | JUC01001181.hg.1 | ANGPTL7 |
| TC03002152.hg.1 | 4.52 | JUC03018846.hg.1 | TNK2 |
| TC03002152.hg.1 | 3.54 | JUC03018868.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.78 | PSR03038009.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.71 | JUC03018840.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.67 | JUC03018853.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.48 | JUC03018865.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.47 | JUC03018859.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.43 | PSR03038002.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.36 | PSR03038018.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.3 | PSR03037990.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.19 | JUC03018856.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.16 | JUC03018832.hg.1 | TNK2 |
| TC03002152.hg.1 | 2.06 | PSR03038027.hg.1 | TNK2 |
| TC03002152.hg.1 | -2.08 | JUC03018849.hg.1 | TNK2 |
| TC03002152.hg.1 | -2.99 | JUC03018864.hg.1 | TNK2 |
| TC03002152.hg.1 | -3.71 | JUC03018843.hg.1 | TNK2 |
| TC06004061.hg.1 | 4.51 | PSR06000123.hg.1 | DKFZP686119 |
| TC06004061.hg.1 | 2.67 | JUC06020809.hg.1 | DKFZP686119 |
| TC06004061.hg.1 | 2.33 | PSR06000124.hg.1 | DKFZP686119 |
| TC06004061.hg.1 | 2.07 | PSR06000125.hg.1 | DKFZP686119 |
| TC08001033.hg.1 | 4.5 | PSR08013164.hg.1 | HR |
| TC08001033.hg.1 | 4.3 | PSR08013149.hg.1 | HR |
| TC08001033.hg.1 | 4.07 | PSR08013173.hg.1 | HR |
| TC08001033.hg.1 | 3.76 | JUC08006840.hg.1 | HR |
| TC08001033.hg.1 | 3.57 | PSR08013180.hg.1 | HR |
| TC08001033.hg.1 | 3.47 | JUC08006841.hg.1 | HR |
| TC08001033.hg.1 | 3.42 | PSR08013176.hg.1 | HR |
| TC08001033.hg.1 | 3.25 | PSR08013151.hg.1 | HR |
| TC08001033.hg.1 | 2.71 | PSR08013159.hg.1 | HR |
| TC08001033.hg.1 | 2.57 | PSR08013150.hg.1 | HR |
| TC08001033.hg.1 | 2.5 | PSR08013174.hg.1 | HR |
| TC08001033.hg.1 | 2.34 | JUC08006833.hg.1 | HR |
| TC08001033.hg.1 | 2.12 | JUC08006832.hg.1 | HR |
| TC08001033.hg.1 | -2.16 | PSR08013166.hg.1 | HR |
| TC08001033.hg.1 | -2.27 | PSR08013147.hg.1 | HR |
| TC08001033.hg.1 | -2.64 | PSR08013169.hg.1 | HR |
| TC08001033.hg.1 | -3.06 | JUC08006842.hg.1 | HR |
| TC08001033.hg.1 | -4.72 | JUC08006837.hg.1 | HR |
| TC08001033.hg.1 | -6.12 | PSR08013163.hg.1 | HR |

| | | | |
|-----------------|--------|------------------|------------|
| TC08001033.hg.1 | -6.97 | JUC08006827.hg.1 | HR |
| TC08001033.hg.1 | -7.77 | JUC08006826.hg.1 | HR |
| TC08001033.hg.1 | -11.52 | JUC08006825.hg.1 | HR |
| TC12001181.hg.1 | 4.5 | PSR12015690.hg.1 | MFAP5 |
| TC12001181.hg.1 | 4.28 | JUC12008633.hg.1 | MFAP5 |
| TC12001181.hg.1 | 3.4 | JUC12008647.hg.1 | MFAP5 |
| TC12001181.hg.1 | 2.76 | JUC12008638.hg.1 | MFAP5 |
| TC12001181.hg.1 | 2.43 | PSR12015664.hg.1 | MFAP5 |
| TC12001181.hg.1 | 2.37 | PSR12015663.hg.1 | MFAP5 |
| TC12001181.hg.1 | 2.1 | PSR12015666.hg.1 | MFAP5 |
| TC12001181.hg.1 | -2 | PSR12015675.hg.1 | MFAP5 |
| TC12001181.hg.1 | -3.22 | JUC12008646.hg.1 | MFAP5 |
| TC12001181.hg.1 | -8.14 | JUC12008634.hg.1 | MFAP5 |
| TC12001181.hg.1 | -8.34 | JUC12008643.hg.1 | MFAP5 |
| TC15000678.hg.1 | 4.5 | PSR15005878.hg.1 | ISLR |
| TC15000678.hg.1 | 4.44 | JUC15003000.hg.1 | ISLR |
| TC15000678.hg.1 | -4.01 | PSR15005873.hg.1 | ISLR |
| TC01000134.hg.1 | 4.47 | JUC01001165.hg.1 | TARDBP |
| TC01000134.hg.1 | 2.26 | JUC01001167.hg.1 | TARDBP |
| TC01000134.hg.1 | 2.24 | PSR01002166.hg.1 | TARDBP |
| TC01000134.hg.1 | -2.43 | JUC01001158.hg.1 | TARDBP |
| TC01003871.hg.1 | 4.47 | PSR01058872.hg.1 | TLR5 |
| TC01003871.hg.1 | 3.13 | PSR01058874.hg.1 | TLR5 |
| TC01003871.hg.1 | 2.42 | PSR01058873.hg.1 | TLR5 |
| TC01003871.hg.1 | 2.23 | PSR01058877.hg.1 | TLR5 |
| TC01003871.hg.1 | 2.04 | PSR01058867.hg.1 | TLR5 |
| TC01003871.hg.1 | -2.71 | JUC01030851.hg.1 | TLR5 |
| TC01003871.hg.1 | -3.49 | JUC01030848.hg.1 | TLR5 |
| TC03002150.hg.1 | 4.47 | JUC03018801.hg.1 | MUC4 |
| TC03002150.hg.1 | 2.86 | JUC03018800.hg.1 | MUC4 |
| TC03002150.hg.1 | 2.75 | PSR03037925.hg.1 | MUC4 |
| TC03002150.hg.1 | 2.26 | JUC03018821.hg.1 | MUC4 |
| TC03002150.hg.1 | -2.15 | PSR03037935.hg.1 | MUC4 |
| TC04000396.hg.1 | 4.47 | JUC04002704.hg.1 | SLC4A4 |
| TC04000396.hg.1 | 2.98 | PSR04005441.hg.1 | SLC4A4 |
| TC04000396.hg.1 | 2.7 | PSR04005442.hg.1 | SLC4A4 |
| TC04000396.hg.1 | 2.54 | JUC04002728.hg.1 | SLC4A4 |
| TC04000396.hg.1 | 2.02 | PSR04005460.hg.1 | SLC4A4 |
| TC04000396.hg.1 | -2.22 | JUC04002712.hg.1 | SLC4A4 |
| TC11000855.hg.1 | 4.47 | JUC11005660.hg.1 | LOC1005062 |
| TC11000855.hg.1 | 3 | JUC11005661.hg.1 | LOC1005062 |
| TC11000855.hg.1 | 2.7 | JUC11005664.hg.1 | LOC1005062 |
| TC11000855.hg.1 | 2.18 | JUC11005663.hg.1 | LOC1005062 |
| TC11000855.hg.1 | 2.17 | PSR11010824.hg.1 | LOC1005062 |
| TC21000154.hg.1 | 4.47 | JUC21000676.hg.1 | CHAF1B |
| TC21000154.hg.1 | 2.17 | PSR21001340.hg.1 | CHAF1B |
| TC21000154.hg.1 | -2.05 | JUC21000668.hg.1 | CHAF1B |
| TC21000154.hg.1 | -2.11 | PSR21001349.hg.1 | CHAF1B |
| TC21000154.hg.1 | -2.87 | JUC21000674.hg.1 | CHAF1B |
| TC12001700.hg.1 | 4.46 | PSR12022692.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 4.23 | PSR12022707.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 4.22 | PSR12022702.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 3.91 | JUC12012509.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 2.57 | PSR12022700.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 2.5 | PSR12022696.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 2.41 | PSR12022708.hg.1 | LOC1005071 |
| TC12001700.hg.1 | 2.12 | JUC12012511.hg.1 | LOC1005071 |
| TC6_mann_hap400 | 4.46 | JUC6_mann_hap400 | HLA-DRB3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC6_mann_hap400 | 2.29 | PSR6_mann_hap400 | HLA-DRB3 |
| TC6_mann_hap400 | 2.16 | JUC6_mann_hap400 | HLA-DRB3 |
| TC01000728.hg.1 | 4.45 | JUC01006009.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 4.43 | JUC01006005.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 3.98 | JUC01006011.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 3.87 | PSR01011580.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 3.5 | PSR01011584.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 3.32 | PSR01011583.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 2.89 | PSR01011591.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 2.85 | PSR01011588.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 2.62 | PSR01011585.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 2.56 | PSR01011590.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | 2.12 | PSR01011582.hg.1 | AK4, LOC100 |
| TC01000728.hg.1 | -2.65 | JUC01006015.hg.1 | AK4, LOC100 |
| TC07000617.hg.1 | 4.45 | JUC07004322.hg.1 | SPDYE3 |
| TC07000617.hg.1 | 2.61 | PSR07009343.hg.1 | SPDYE3 |
| TC07000617.hg.1 | 2.12 | PSR07009355.hg.1 | SPDYE3 |
| TC08001675.hg.1 | 4.45 | JUC08011220.hg.1 | COL22A1 |
| TC08001675.hg.1 | 2.34 | JUC08011237.hg.1 | COL22A1 |
| TC08001675.hg.1 | 2.25 | JUC08011189.hg.1 | COL22A1 |
| TC08001675.hg.1 | 2.1 | PSR08021883.hg.1 | COL22A1 |
| TC08001675.hg.1 | 2 | PSR08021918.hg.1 | COL22A1 |
| TC08001675.hg.1 | -2.13 | JUC08011184.hg.1 | COL22A1 |
| TC15000157.hg.1 | 4.45 | JUC15000397.hg.1 | GOLGA8J |
| TC15000157.hg.1 | 3.45 | PSR15001003.hg.1 | GOLGA8J |
| TC15000157.hg.1 | -2.41 | JUC15000383.hg.1 | GOLGA8J |
| TC01003192.hg.1 | 4.44 | JUC01026022.hg.1 | HIST2H4B, H |
| TC01003192.hg.1 | 2.77 | PSR01048907.hg.1 | HIST2H4B, H |
| TC01003192.hg.1 | 2.51 | PSR01048911.hg.1 | HIST2H4B, H |
| TC01003192.hg.1 | 2.38 | PSR01048910.hg.1 | HIST2H4B, H |
| TC01003192.hg.1 | 2.09 | PSR01048916.hg.1 | HIST2H4B, H |
| TC01003733.hg.1 | 4.44 | JUC01029913.hg.1 | PIK3C2B |
| TC01003733.hg.1 | 2.95 | JUC01029923.hg.1 | PIK3C2B |
| TC01003733.hg.1 | 2.32 | JUC01029931.hg.1 | PIK3C2B |
| TC01003733.hg.1 | -2.15 | PSR01057339.hg.1 | PIK3C2B |
| TC01003733.hg.1 | -2.5 | JUC01029915.hg.1 | PIK3C2B |
| TC04000839.hg.1 | 4.44 | JUC04006207.hg.1 | PALLD |
| TC04000839.hg.1 | 2.59 | PSR04011592.hg.1 | PALLD |
| TC04000839.hg.1 | 2.16 | PSR04011596.hg.1 | PALLD |
| TC04000839.hg.1 | 2.1 | PSR04011591.hg.1 | PALLD |
| TC04000839.hg.1 | -2.04 | JUC04006186.hg.1 | PALLD |
| TC04000839.hg.1 | -2.54 | PSR04011566.hg.1 | PALLD |
| TC04000839.hg.1 | -4.55 | JUC04006184.hg.1 | PALLD |
| TC05001924.hg.1 | 4.44 | JUC05013527.hg.1 | CSNK1A1 |
| TC05001924.hg.1 | 4.29 | JUC05013525.hg.1 | CSNK1A1 |
| TC05001924.hg.1 | 3.37 | JUC05013517.hg.1 | CSNK1A1 |
| TC05001924.hg.1 | 2.18 | JUC05013528.hg.1 | CSNK1A1 |
| TC05001924.hg.1 | -2.02 | PSR05026589.hg.1 | CSNK1A1 |
| TC05001924.hg.1 | -2.11 | PSR05026588.hg.1 | CSNK1A1 |
| TC06000165.hg.1 | 4.44 | PSR06001683.hg.1 | HFE |
| TC06000165.hg.1 | 2.96 | JUC06000855.hg.1 | HFE |
| TC06000165.hg.1 | 2.64 | JUC06000842.hg.1 | HFE |
| TC06000165.hg.1 | 2.19 | PSR06001685.hg.1 | HFE |
| TC0X000116.hg.1 | 4.44 | JUC0X000848.hg.1 | ZFX |
| TC0X000116.hg.1 | 3.2 | PSR0X001544.hg.1 | ZFX |
| TC0X000116.hg.1 | 3.16 | PSR0X001550.hg.1 | ZFX |
| TC0X000116.hg.1 | 3.08 | PSR0X001554.hg.1 | ZFX |
| TC0X000116.hg.1 | 3.05 | PSR0X001545.hg.1 | ZFX |

| | | | |
|-----------------|-------|------------------|--------|
| TC0X000116.hg.1 | 2.96 | JUC0X000833.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.9 | PSR0X001535.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.85 | PSR0X001546.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.85 | PSR0X001547.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.85 | PSR0X001571.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.82 | PSR0X001542.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.66 | JUC0X000839.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.37 | JUC0X000840.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.17 | JUC0X000837.hg.1 | ZFX |
| TC0X000116.hg.1 | 2.11 | JUC0X000860.hg.1 | ZFX |
| TC0X000116.hg.1 | -2.27 | JUC0X000846.hg.1 | ZFX |
| TC0X000116.hg.1 | -2.3 | JUC0X000832.hg.1 | ZFX |
| TC0X000978.hg.1 | 4.44 | JUC0X006556.hg.1 | MAOB |
| TC0X000978.hg.1 | 3.86 | JUC0X006546.hg.1 | MAOB |
| TC0X000978.hg.1 | 3.49 | PSR0X013041.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.82 | JUC0X006545.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.77 | JUC0X006553.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.61 | JUC0X006539.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.48 | PSR0X013037.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.32 | JUC0X006543.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.15 | PSR0X013038.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.09 | PSR0X013036.hg.1 | MAOB |
| TC0X000978.hg.1 | 2.02 | PSR0X013010.hg.1 | MAOB |
| TC0X000978.hg.1 | -2.03 | JUC0X006540.hg.1 | MAOB |
| TC0X000978.hg.1 | -2.1 | JUC0X006552.hg.1 | MAOB |
| TC6_cox_hap2000 | 4.44 | PSR6_cox_hap2000 | HLA-H |
| TC6_cox_hap2000 | 3.11 | JUC6_cox_hap2000 | HLA-H |
| TC6_cox_hap2000 | 2.75 | JUC6_cox_hap2000 | HLA-H |
| TC6_cox_hap2000 | 2.66 | PSR6_cox_hap2000 | HLA-H |
| TC6_cox_hap2000 | 2.46 | PSR6_cox_hap2000 | HLA-H |
| TC6_cox_hap2000 | 2.03 | JUC6_cox_hap2000 | HLA-H |
| TC03001998.hg.1 | 4.43 | PSR03035733.hg.1 | TNIK |
| TC03001998.hg.1 | 4.23 | JUC03017647.hg.1 | TNIK |
| TC03001998.hg.1 | 3.11 | PSR03035709.hg.1 | TNIK |
| TC03001998.hg.1 | 2.98 | PSR03035753.hg.1 | TNIK |
| TC03001998.hg.1 | 2.91 | PSR03035704.hg.1 | TNIK |
| TC03001998.hg.1 | 2.82 | PSR03035738.hg.1 | TNIK |
| TC03001998.hg.1 | 2.78 | JUC03017630.hg.1 | TNIK |
| TC03001998.hg.1 | 2.46 | PSR03035716.hg.1 | TNIK |
| TC03001998.hg.1 | 2.42 | PSR03035734.hg.1 | TNIK |
| TC03001998.hg.1 | 2.35 | PSR03035752.hg.1 | TNIK |
| TC03001998.hg.1 | 2.22 | JUC03017619.hg.1 | TNIK |
| TC03001998.hg.1 | 2.14 | JUC03017634.hg.1 | TNIK |
| TC03001998.hg.1 | 2.07 | PSR03035735.hg.1 | TNIK |
| TC03001998.hg.1 | 2.06 | PSR03035724.hg.1 | TNIK |
| TC03001998.hg.1 | -2.29 | PSR03035750.hg.1 | TNIK |
| TC03001998.hg.1 | -3.2 | PSR03035705.hg.1 | TNIK |
| TC03001998.hg.1 | -3.49 | JUC03017641.hg.1 | TNIK |
| TC03001998.hg.1 | -4.32 | JUC03017640.hg.1 | TNIK |
| TC05000837.hg.1 | 4.43 | JUC05006292.hg.1 | GPX3 |
| TC05000837.hg.1 | 2.74 | JUC05006284.hg.1 | GPX3 |
| TC05000837.hg.1 | 2.57 | JUC05006287.hg.1 | GPX3 |
| TC05000837.hg.1 | 2.51 | PSR05012082.hg.1 | GPX3 |
| TC05000837.hg.1 | 2.04 | PSR05012081.hg.1 | GPX3 |
| TC09000709.hg.1 | 4.43 | JUC09004899.hg.1 | PPP2R4 |
| TC09000709.hg.1 | 2.07 | JUC09004876.hg.1 | PPP2R4 |
| TC09000709.hg.1 | -2.03 | JUC09004880.hg.1 | PPP2R4 |
| TC09000709.hg.1 | -2.2 | PSR09008946.hg.1 | PPP2R4 |

| | | | |
|-----------------|-------|------------------|----------------|
| TC09000709.hg.1 | -2.58 | JUC09004875.hg.1 | PPP2R4 |
| TC09000709.hg.1 | -2.67 | JUC09004903.hg.1 | PPP2R4 |
| TC09000709.hg.1 | -3.48 | PSR09008947.hg.1 | PPP2R4 |
| TC22000224.hg.1 | 4.43 | JUC22001517.hg.1 | LIMK2 |
| TC22000224.hg.1 | 3.83 | PSR22004259.hg.1 | LIMK2 |
| TC22000224.hg.1 | 3.43 | JUC22001519.hg.1 | LIMK2 |
| TC22000224.hg.1 | 3 | PSR22004256.hg.1 | LIMK2 |
| TC22000224.hg.1 | 2.48 | JUC22001521.hg.1 | LIMK2 |
| TC22000224.hg.1 | 2.45 | JUC22001511.hg.1 | LIMK2 |
| TC22000224.hg.1 | 2.18 | JUC22001509.hg.1 | LIMK2 |
| TC22000224.hg.1 | -2.31 | PSR22004251.hg.1 | LIMK2 |
| TC22000224.hg.1 | -2.46 | PSR22004288.hg.1 | LIMK2 |
| TC22000224.hg.1 | -3.04 | PSR22004252.hg.1 | LIMK2 |
| TC22000224.hg.1 | -3.21 | JUC22001531.hg.1 | LIMK2 |
| TC03003365.hg.1 | 4.42 | JUC03023893.hg.1 | MUC20 |
| TC03003365.hg.1 | 3.52 | JUC03023905.hg.1 | MUC20 |
| TC03003365.hg.1 | 3.52 | JUC03023907.hg.1 | MUC20 |
| TC03003365.hg.1 | 3.4 | PSR03018821.hg.1 | MUC20 |
| TC03003365.hg.1 | 3.07 | JUC03023889.hg.1 | MUC20 |
| TC03003365.hg.1 | 3.06 | JUC03023897.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.96 | PSR03018785.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.8 | PSR03018862.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.6 | JUC03023898.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.58 | JUC03023892.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.56 | JUC03023891.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.33 | PSR03018858.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.13 | PSR03018825.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.13 | PSR03018853.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.1 | JUC03023901.hg.1 | MUC20 |
| TC03003365.hg.1 | 2.1 | JUC03023902.hg.1 | MUC20 |
| TC03000548.hg.1 | 4.41 | JUC03005025.hg.1 | DZIP3 |
| TC03000548.hg.1 | 2.93 | PSR03010057.hg.1 | DZIP3 |
| TC03000548.hg.1 | 2.27 | JUC03004997.hg.1 | DZIP3 |
| TC03000548.hg.1 | 2.03 | JUC03005013.hg.1 | DZIP3 |
| TC03000548.hg.1 | -2.26 | JUC03005021.hg.1 | DZIP3 |
| TC03000548.hg.1 | -3.08 | JUC03005005.hg.1 | DZIP3 |
| TC07000679.hg.1 | 4.41 | JUC07004920.hg.1 | MLL5 |
| TC07000679.hg.1 | 2.42 | JUC07004924.hg.1 | MLL5 |
| TC07000679.hg.1 | 2.06 | JUC07004901.hg.1 | MLL5 |
| TC07000679.hg.1 | -2.32 | PSR07010519.hg.1 | MLL5 |
| TC07003401.hg.1 | 4.41 | JUC07021995.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 3.71 | PSR07019190.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 3.48 | PSR07019143.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 3.35 | JUC07021990.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 3.31 | PSR07019167.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 3.11 | JUC07021991.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.91 | PSR07019166.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.85 | JUC07021996.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.83 | JUC07021997.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.7 | JUC07021994.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.61 | PSR07019134.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.4 | JUC07021988.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | 2.26 | PSR07019154.hg.1 | HOXA9, MIR3938 |
| TC07003401.hg.1 | -3.02 | PSR07019162.hg.1 | HOXA9, MIR3938 |
| TC08000132.hg.1 | 4.41 | JUC08000665.hg.1 | |
| TC08000132.hg.1 | 2.94 | PSR08001246.hg.1 | |
| TC08000132.hg.1 | 2.44 | PSR08001244.hg.1 | |
| TC08000132.hg.1 | 2.11 | PSR08001245.hg.1 | |

| | | | |
|-----------------|-------|------------------|----------|
| TC14000419.hg.1 | 4.41 | PSR14005084.hg.1 | SMOC1 |
| TC14000419.hg.1 | 3.6 | JUC14002604.hg.1 | SMOC1 |
| TC14000419.hg.1 | 3.5 | PSR14005085.hg.1 | SMOC1 |
| TC14000419.hg.1 | 3.29 | PSR14005086.hg.1 | SMOC1 |
| TC01003073.hg.1 | 4.4 | JUC01025633.hg.1 | |
| TC01003073.hg.1 | 3.36 | JUC01025628.hg.1 | |
| TC01003073.hg.1 | 2.42 | PSR01047756.hg.1 | |
| TC01003073.hg.1 | 2.33 | JUC01025632.hg.1 | |
| TC01003073.hg.1 | 2.26 | PSR01047745.hg.1 | |
| TC01003073.hg.1 | 2.11 | JUC01025622.hg.1 | |
| TC01003073.hg.1 | 2.04 | PSR01047757.hg.1 | |
| TC01003073.hg.1 | -2.44 | PSR01047749.hg.1 | |
| TC01003073.hg.1 | -2.53 | PSR01047743.hg.1 | |
| TC03001105.hg.1 | 4.4 | JUC03009623.hg.1 | MF12-AS1 |
| TC03001105.hg.1 | 2.62 | PSR03019064.hg.1 | MF12-AS1 |
| TC07001738.hg.1 | 4.4 | JUC07013261.hg.1 | NAMPT |
| TC07001738.hg.1 | 3.38 | PSR07027039.hg.1 | NAMPT |
| TC07001738.hg.1 | 2.73 | PSR07027038.hg.1 | NAMPT |
| TC07001738.hg.1 | 2.73 | PSR07027047.hg.1 | NAMPT |
| TC07001738.hg.1 | 2.72 | PSR07027028.hg.1 | NAMPT |
| TC07001738.hg.1 | 2.67 | PSR07027058.hg.1 | NAMPT |
| TC07001738.hg.1 | 2.22 | PSR07027030.hg.1 | NAMPT |
| TC07001738.hg.1 | 2.14 | PSR07027056.hg.1 | NAMPT |
| TC07001738.hg.1 | -2.07 | JUC07013253.hg.1 | NAMPT |
| TC10001681.hg.1 | 4.4 | JUC10012876.hg.1 | HSPA12A |
| TC10001681.hg.1 | 3.1 | JUC10012859.hg.1 | HSPA12A |
| TC10001681.hg.1 | 2.75 | JUC10012874.hg.1 | HSPA12A |
| TC10001681.hg.1 | -2.09 | PSR10022164.hg.1 | HSPA12A |
| TC10001681.hg.1 | -2.3 | PSR10022165.hg.1 | HSPA12A |
| TC01000644.hg.1 | 4.39 | JUC01005409.hg.1 | FAM159A |
| TC01000644.hg.1 | 3.41 | PSR01010508.hg.1 | FAM159A |
| TC01000644.hg.1 | -2.6 | PSR01010510.hg.1 | FAM159A |
| TC01000644.hg.1 | -2.66 | PSR01010507.hg.1 | FAM159A |
| TC01000644.hg.1 | -2.88 | PSR01010515.hg.1 | FAM159A |
| TC01000644.hg.1 | -6 | JUC01005413.hg.1 | FAM159A |
| TC01003778.hg.1 | 4.39 | JUC01030251.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 3.54 | JUC01030274.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 3.13 | JUC01030263.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 3.04 | JUC01030266.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.84 | JUC01030255.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.47 | JUC01030254.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.4 | PSR01057911.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.34 | PSR01057890.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.34 | JUC01030265.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.26 | JUC01030259.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.2 | PSR01057903.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.15 | PSR01057921.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.13 | PSR01057915.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.12 | PSR01057914.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.12 | PSR01057918.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.06 | PSR01057930.hg.1 | PLXNA2 |
| TC01003778.hg.1 | 2.04 | PSR01057912.hg.1 | PLXNA2 |
| TC01003778.hg.1 | -2 | PSR01057927.hg.1 | PLXNA2 |
| TC01003778.hg.1 | -2.08 | PSR01057906.hg.1 | PLXNA2 |
| TC01003778.hg.1 | -2.51 | JUC01030267.hg.1 | PLXNA2 |
| TC01003778.hg.1 | -5.69 | JUC01030270.hg.1 | PLXNA2 |
| TC03002141.hg.1 | 4.39 | JUC03018723.hg.1 | ACAP2 |
| TC03002141.hg.1 | 2.65 | JUC03018750.hg.1 | ACAP2 |

| | | | |
|-----------------|--------|------------------|--------------------------|
| TC03002141.hg.1 | 2.46 | JUC03018759.hg.1 | ACAP2 |
| TC03002141.hg.1 | 2.45 | JUC03018736.hg.1 | ACAP2 |
| TC03002141.hg.1 | 2.12 | JUC03018755.hg.1 | ACAP2 |
| TC03002141.hg.1 | 2.01 | PSR03037798.hg.1 | ACAP2 |
| TC0X000943.hg.1 | 4.39 | JUC0X006353.hg.1 | DMD |
| TC0X000943.hg.1 | 4.2 | PSR0X012609.hg.1 | DMD |
| TC0X000943.hg.1 | 2.88 | JUC0X006249.hg.1 | DMD |
| TC0X000943.hg.1 | 2.67 | JUC0X006248.hg.1 | DMD |
| TC0X000943.hg.1 | 2.36 | JUC0X006301.hg.1 | DMD |
| TC0X000943.hg.1 | 2.36 | JUC0X006317.hg.1 | DMD |
| TC0X000943.hg.1 | 2.34 | JUC0X006321.hg.1 | DMD |
| TC0X000943.hg.1 | 2.25 | JUC0X006329.hg.1 | DMD |
| TC0X000943.hg.1 | 2.24 | JUC0X006342.hg.1 | DMD |
| TC0X000943.hg.1 | 2.21 | JUC0X006276.hg.1 | DMD |
| TC0X000943.hg.1 | 2.11 | PSR0X012611.hg.1 | DMD |
| TC0X000943.hg.1 | 2.07 | JUC0X006298.hg.1 | DMD |
| TC0X000943.hg.1 | 2.03 | JUC0X006311.hg.1 | DMD |
| TC0X000943.hg.1 | -2.02 | JUC0X006305.hg.1 | DMD |
| TC0X000943.hg.1 | -2.04 | PSR0X012579.hg.1 | DMD |
| TC0X000943.hg.1 | -2.07 | JUC0X006309.hg.1 | DMD |
| TC0X000943.hg.1 | -2.2 | JUC0X006275.hg.1 | DMD |
| TC0X000943.hg.1 | -2.26 | JUC0X006264.hg.1 | DMD |
| TC0X000943.hg.1 | -2.27 | JUC0X006307.hg.1 | DMD |
| TC0X000943.hg.1 | -2.28 | JUC0X006289.hg.1 | DMD |
| TC0X000943.hg.1 | -2.31 | PSR0X012591.hg.1 | DMD |
| TC0X000943.hg.1 | -2.33 | JUC0X006345.hg.1 | DMD |
| TC0X000943.hg.1 | -2.44 | JUC0X006304.hg.1 | DMD |
| TC0X000943.hg.1 | -2.5 | PSR0X012593.hg.1 | DMD |
| TC0X000943.hg.1 | -2.56 | JUC0X006322.hg.1 | DMD |
| TC0X000943.hg.1 | -2.67 | PSR0X012631.hg.1 | DMD |
| TC0X000943.hg.1 | -2.68 | JUC0X006262.hg.1 | DMD |
| TC0X000943.hg.1 | -2.69 | PSR0X012648.hg.1 | DMD |
| TC0X000943.hg.1 | -2.72 | JUC0X006355.hg.1 | DMD |
| TC0X000943.hg.1 | -2.76 | PSR0X012625.hg.1 | DMD |
| TC0X000943.hg.1 | -2.88 | PSR0X012698.hg.1 | DMD |
| TC0X000943.hg.1 | -2.9 | PSR0X012604.hg.1 | DMD |
| TC0X000943.hg.1 | -2.93 | PSR0X012605.hg.1 | DMD |
| TC0X000943.hg.1 | -3.15 | PSR0X012699.hg.1 | DMD |
| TC0X000943.hg.1 | -3.55 | PSR0X012692.hg.1 | DMD |
| TC0X000943.hg.1 | -3.79 | JUC0X006346.hg.1 | DMD |
| TC0X000943.hg.1 | -4.12 | JUC0X006250.hg.1 | DMD |
| TC0X000943.hg.1 | -5.03 | PSR0X012569.hg.1 | DMD |
| TC0X000943.hg.1 | -10.91 | JUC0X006277.hg.1 | DMD |
| TC22000394.hg.1 | 4.39 | JUC22002903.hg.1 | GTSE1 |
| TC22000394.hg.1 | 2.36 | PSR22007633.hg.1 | GTSE1 |
| TC22000394.hg.1 | 2.35 | PSR22007631.hg.1 | GTSE1 |
| TC22000394.hg.1 | 2.15 | JUC22002900.hg.1 | GTSE1 |
| TC01002649.hg.1 | 4.38 | PSR01041454.hg.1 | EPS15 |
| TC01002649.hg.1 | 2.26 | JUC01022169.hg.1 | EPS15 |
| TC01002649.hg.1 | -2.06 | JUC01022159.hg.1 | EPS15 |
| TC02002399.hg.1 | 4.38 | JUC02019655.hg.1 | ZEB2, ZEB2- 1 |
| TC02002399.hg.1 | 2.3 | PSR02037863.hg.1 | ZEB2, ZEB2- 1 |
| TC02002399.hg.1 | 2.17 | JUC02019669.hg.1 | ZEB2, ZEB2- 1 |
| TC02002399.hg.1 | 2.1 | JUC02019677.hg.1 | ZEB2, ZEB2- 1 |
| TC10000565.hg.1 | 4.38 | JUC10003523.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 3.37 | JUC10003504.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 3.03 | JUC10003507.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 2.89 | JUC10003529.hg.1 | ZMIZ1 |

| | | | |
|-----------------|-------|------------------|--------|
| TC10000565.hg.1 | 2.84 | JUC10003506.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 2.71 | PSR10006066.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 2.53 | JUC10003533.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 2.24 | PSR10006060.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 2.13 | PSR10006042.hg.1 | ZMIZ1 |
| TC10000565.hg.1 | 2.08 | JUC10003535.hg.1 | ZMIZ1 |
| TC12000974.hg.1 | 4.38 | JUC12006982.hg.1 | KNTC1 |
| TC12000974.hg.1 | 2.66 | JUC12007025.hg.1 | KNTC1 |
| TC12000974.hg.1 | 2.08 | PSR12012791.hg.1 | KNTC1 |
| TC12000974.hg.1 | 2.05 | JUC12007024.hg.1 | KNTC1 |
| TC12000974.hg.1 | 2.03 | JUC12006976.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.17 | JUC12007023.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.48 | JUC12006993.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.51 | JUC12006968.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.63 | JUC12006994.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.74 | JUC12007020.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.81 | JUC12006998.hg.1 | KNTC1 |
| TC12000974.hg.1 | -2.85 | JUC12006997.hg.1 | KNTC1 |
| TC03001888.hg.1 | 4.37 | PSR03034034.hg.1 | TM4SF1 |
| TC03001888.hg.1 | -6.27 | JUC03016905.hg.1 | TM4SF1 |
| TC05000914.hg.1 | 4.37 | PSR05013205.hg.1 | ODZ2 |
| TC05000914.hg.1 | 3.87 | JUC05006819.hg.1 | ODZ2 |
| TC05000914.hg.1 | 3.71 | PSR05013204.hg.1 | ODZ2 |
| TC05000914.hg.1 | 3.27 | PSR05013235.hg.1 | ODZ2 |
| TC05000914.hg.1 | 3.21 | JUC05006848.hg.1 | ODZ2 |
| TC05000914.hg.1 | 3 | JUC05006816.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.56 | PSR05013206.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.54 | JUC05006855.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.47 | JUC05006825.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.42 | JUC05006844.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.4 | JUC05006820.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.33 | PSR05013219.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.29 | PSR05013214.hg.1 | ODZ2 |
| TC05000914.hg.1 | 2.02 | JUC05006834.hg.1 | ODZ2 |
| TC05000914.hg.1 | -2.39 | JUC05006857.hg.1 | ODZ2 |
| TC05003446.hg.1 | 4.37 | JUC05019878.hg.1 | SMA5 |
| TC05003446.hg.1 | -2.76 | PSR05019978.hg.1 | SMA5 |
| TC06000762.hg.1 | 4.37 | JUC06004242.hg.1 | BCKDHB |
| TC06000762.hg.1 | -2.01 | PSR06009137.hg.1 | BCKDHB |
| TC22000688.hg.1 | 4.37 | JUC22005004.hg.1 | LARGE |
| TC22000688.hg.1 | 2.94 | PSR22012185.hg.1 | LARGE |
| TC22000688.hg.1 | 2.64 | JUC22005007.hg.1 | LARGE |
| TC22000688.hg.1 | 2.5 | PSR22012178.hg.1 | LARGE |
| TC22000688.hg.1 | 2.14 | PSR22012172.hg.1 | LARGE |
| TC22000688.hg.1 | 2.11 | PSR22012176.hg.1 | LARGE |
| TC22000688.hg.1 | 2.01 | PSR22012170.hg.1 | LARGE |
| TC22000688.hg.1 | -2.14 | JUC22005020.hg.1 | LARGE |
| TC01003996.hg.1 | 4.36 | JUC01031624.hg.1 | LYST |
| TC01003996.hg.1 | 3.42 | JUC01031668.hg.1 | LYST |
| TC01003996.hg.1 | 3.17 | JUC01031623.hg.1 | LYST |
| TC01003996.hg.1 | 2.9 | JUC01031630.hg.1 | LYST |
| TC01003996.hg.1 | 2.6 | JUC01031658.hg.1 | LYST |
| TC01003996.hg.1 | 2.6 | JUC01031667.hg.1 | LYST |
| TC01003996.hg.1 | 2.17 | JUC01031617.hg.1 | LYST |
| TC01003996.hg.1 | 2.14 | PSR01060519.hg.1 | LYST |
| TC01003996.hg.1 | 2.05 | PSR01060503.hg.1 | LYST |
| TC01003996.hg.1 | -2.29 | JUC01031643.hg.1 | LYST |
| TC01003996.hg.1 | -3.25 | JUC01031650.hg.1 | LYST |

| | | | |
|-----------------|-------|------------------|----------|
| TC01003996.hg.1 | -4.61 | JUC01031663.hg.1 | LYST |
| TC02001326.hg.1 | 4.36 | JUC02010997.hg.1 | DES |
| TC02001326.hg.1 | 2.69 | PSR02020642.hg.1 | DES |
| TC02001326.hg.1 | 2.25 | JUC02011001.hg.1 | DES |
| TC02001326.hg.1 | -2.17 | PSR02020641.hg.1 | DES |
| TC02002900.hg.1 | 4.36 | JUC02024351.hg.1 | IQCA1 |
| TC02002900.hg.1 | -2.37 | PSR02046547.hg.1 | IQCA1 |
| TC02002900.hg.1 | -3.63 | JUC02024346.hg.1 | IQCA1 |
| TC02002900.hg.1 | -3.88 | JUC02024358.hg.1 | IQCA1 |
| TC05000697.hg.1 | 4.36 | PSR05009662.hg.1 | KIF20A |
| TC05000697.hg.1 | 3.35 | JUC05005151.hg.1 | KIF20A |
| TC05000697.hg.1 | 3.12 | PSR05009671.hg.1 | KIF20A |
| TC05000697.hg.1 | 2.63 | PSR05009664.hg.1 | KIF20A |
| TC05000697.hg.1 | 2.23 | PSR05009673.hg.1 | KIF20A |
| TC05000697.hg.1 | 2.19 | PSR05009672.hg.1 | KIF20A |
| TC05000697.hg.1 | 2.15 | PSR05009674.hg.1 | KIF20A |
| TC05000697.hg.1 | -2.3 | JUC05005156.hg.1 | KIF20A |
| TC05000697.hg.1 | -2.39 | JUC05005154.hg.1 | KIF20A |
| TC13000173.hg.1 | 4.36 | JUC13001212.hg.1 | TPT1-AS1 |
| TC13000173.hg.1 | 3.1 | JUC13001219.hg.1 | TPT1-AS1 |
| TC13000173.hg.1 | 2.42 | JUC13001222.hg.1 | TPT1-AS1 |
| TC13000173.hg.1 | 2.04 | PSR13001959.hg.1 | TPT1-AS1 |
| TC13000173.hg.1 | 2.04 | JUC13001214.hg.1 | TPT1-AS1 |
| TC01001476.hg.1 | 4.35 | JUC01012082.hg.1 | C1orf112 |
| TC01001476.hg.1 | 2.65 | JUC01012059.hg.1 | C1orf112 |
| TC01001476.hg.1 | 2.27 | PSR01022921.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2 | PSR01022896.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2.06 | JUC01012062.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2.09 | PSR01022898.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2.14 | JUC01012072.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2.15 | JUC01012058.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2.39 | JUC01012077.hg.1 | C1orf112 |
| TC01001476.hg.1 | -2.56 | PSR01022908.hg.1 | C1orf112 |
| TC01001476.hg.1 | -3.14 | PSR01022913.hg.1 | C1orf112 |
| TC01001476.hg.1 | -3.46 | PSR01022885.hg.1 | C1orf112 |
| TC01001476.hg.1 | -3.49 | JUC01012083.hg.1 | C1orf112 |
| TC08001660.hg.1 | 4.35 | JUC08011101.hg.1 | ST3GAL1 |
| TC08001660.hg.1 | -2.27 | PSR08021724.hg.1 | ST3GAL1 |
| TC08001660.hg.1 | -3.04 | JUC08011086.hg.1 | ST3GAL1 |
| TC01002981.hg.1 | 4.34 | JUC01024897.hg.1 | DENND2D |
| TC01002981.hg.1 | 2.93 | JUC01024900.hg.1 | DENND2D |
| TC01002981.hg.1 | 2.14 | PSR01046282.hg.1 | DENND2D |
| TC08001164.hg.1 | 4.34 | JUC08007637.hg.1 | ZMAT4 |
| TC08001164.hg.1 | 4.15 | JUC08007640.hg.1 | ZMAT4 |
| TC08001164.hg.1 | 3.57 | PSR08014969.hg.1 | ZMAT4 |
| TC08001164.hg.1 | 3.41 | PSR08014958.hg.1 | ZMAT4 |
| TC08001164.hg.1 | 2.25 | PSR08014971.hg.1 | ZMAT4 |
| TC08001164.hg.1 | 2.16 | PSR08014965.hg.1 | ZMAT4 |
| TC08001164.hg.1 | 2.15 | JUC08007648.hg.1 | ZMAT4 |
| TC08001164.hg.1 | -2.11 | PSR08014954.hg.1 | ZMAT4 |
| TC08001164.hg.1 | -2.15 | JUC08007641.hg.1 | ZMAT4 |
| TC08001164.hg.1 | -2.2 | PSR08014962.hg.1 | ZMAT4 |
| TC08001164.hg.1 | -2.45 | JUC08007646.hg.1 | ZMAT4 |
| TC08001164.hg.1 | -4.28 | JUC08007638.hg.1 | ZMAT4 |
| TC11000228.hg.1 | 4.34 | JUC11001435.hg.1 | NUCB2 |
| TC11000228.hg.1 | 3.25 | PSR11002965.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.98 | PSR11002972.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.87 | PSR11002971.hg.1 | NUCB2 |

| | | | |
|-----------------|--------|------------------|--------|
| TC11000228.hg.1 | 2.87 | PSR11002995.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.56 | PSR11002966.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.45 | JUC11001448.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.35 | PSR11002980.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.33 | PSR11002967.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.22 | PSR11002997.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.13 | PSR11002975.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.12 | JUC11001451.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2.07 | JUC11001442.hg.1 | NUCB2 |
| TC11000228.hg.1 | 2 | PSR11002994.hg.1 | NUCB2 |
| TC02002765.hg.1 | 4.33 | PSR02044435.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.06 | PSR02044387.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.06 | JUC02023285.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.07 | PSR02044405.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.1 | PSR02044390.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.23 | JUC02023306.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.24 | PSR02044439.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.36 | JUC02023297.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.39 | PSR02044412.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.42 | PSR02044443.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.43 | PSR02044445.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.46 | JUC02023313.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.48 | JUC02023291.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.54 | PSR02044395.hg.1 | TNS1 |
| TC02002765.hg.1 | -2.97 | JUC02023319.hg.1 | TNS1 |
| TC02002765.hg.1 | -3.06 | PSR02044415.hg.1 | TNS1 |
| TC02002765.hg.1 | -3.14 | PSR02044444.hg.1 | TNS1 |
| TC02002765.hg.1 | -3.32 | JUC02023286.hg.1 | TNS1 |
| TC02002765.hg.1 | -3.56 | PSR02044442.hg.1 | TNS1 |
| TC02002765.hg.1 | -3.57 | JUC02023321.hg.1 | TNS1 |
| TC02002765.hg.1 | -4.25 | JUC02023310.hg.1 | TNS1 |
| TC05001804.hg.1 | 4.33 | PSR05024563.hg.1 | CXCL14 |
| TC05001804.hg.1 | 4.02 | JUC05012596.hg.1 | CXCL14 |
| TC05001804.hg.1 | 2.39 | PSR05024559.hg.1 | CXCL14 |
| TC05001804.hg.1 | 2.27 | PSR05024565.hg.1 | CXCL14 |
| TC05001804.hg.1 | 2.26 | JUC05012598.hg.1 | CXCL14 |
| TC05001804.hg.1 | -3.92 | JUC05012597.hg.1 | CXCL14 |
| TC05001804.hg.1 | -12.21 | PSR05024567.hg.1 | CXCL14 |
| TC05001804.hg.1 | -26.65 | PSR05024568.hg.1 | CXCL14 |
| TC05001804.hg.1 | -33.11 | PSR05024569.hg.1 | CXCL14 |
| TC09000576.hg.1 | 4.33 | JUC09003558.hg.1 | RGS3 |
| TC09000576.hg.1 | 4.3 | PSR09006457.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.98 | JUC09003578.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.73 | JUC09003559.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.64 | PSR09006430.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.63 | PSR09006444.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.47 | PSR09006441.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.36 | PSR09006465.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.35 | JUC09003590.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.27 | JUC09003597.hg.1 | RGS3 |
| TC09000576.hg.1 | 3.11 | JUC09003581.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.86 | PSR09006420.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.72 | PSR09006418.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.61 | JUC09003574.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.39 | PSR09006416.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.39 | PSR09006423.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.33 | PSR09006454.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.33 | PSR09006458.hg.1 | RGS3 |

| | | | |
|-----------------|-------|------------------|----------|
| TC09000576.hg.1 | 2.3 | PSR09006448.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.25 | PSR09006428.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.24 | PSR09006434.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.24 | PSR09006437.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.2 | PSR09006432.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.2 | PSR09006463.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.19 | PSR09006443.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.15 | PSR09006478.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.14 | PSR09006445.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.14 | PSR09006490.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.11 | JUC09003595.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.1 | JUC09003569.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.08 | PSR09006422.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.08 | PSR09006455.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.03 | PSR09006451.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.02 | PSR09006447.hg.1 | RGS3 |
| TC09000576.hg.1 | 2.02 | PSR09006450.hg.1 | RGS3 |
| TC09000576.hg.1 | -2.51 | JUC09003557.hg.1 | RGS3 |
| TC09000576.hg.1 | -3.69 | PSR09006470.hg.1 | RGS3 |
| TC12001170.hg.1 | 4.33 | PSR12015582.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 3.89 | PSR12015558.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 3.69 | PSR12015571.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 3.22 | PSR12015567.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 3.03 | PSR12015569.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 2.76 | JUC12008575.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 2.33 | PSR12015565.hg.1 | SLC2A3 |
| TC12001170.hg.1 | 2.16 | PSR12015559.hg.1 | SLC2A3 |
| TC12001170.hg.1 | -2.41 | PSR12015561.hg.1 | SLC2A3 |
| TC12001170.hg.1 | -3.21 | JUC12008574.hg.1 | SLC2A3 |
| TC06000323.hg.1 | 4.32 | JUC06001161.hg.1 | HLA-F |
| TC06000323.hg.1 | 3.32 | PSR06002535.hg.1 | HLA-F |
| TC06000323.hg.1 | 3.16 | PSR06002559.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.92 | JUC06001169.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.8 | JUC06001152.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.68 | JUC06001174.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.63 | PSR06002549.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.38 | PSR06002587.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.27 | JUC06001156.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.26 | JUC06001162.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.15 | PSR06002589.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.1 | JUC06001153.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.07 | PSR06002591.hg.1 | HLA-F |
| TC06000323.hg.1 | 2.02 | PSR06002582.hg.1 | HLA-F |
| TC06000323.hg.1 | 2 | PSR06002585.hg.1 | HLA-F |
| TC06000323.hg.1 | -2 | PSR06002552.hg.1 | HLA-F |
| TC07000643.hg.1 | 4.32 | PSR07010040.hg.1 | SERPINE1 |
| TC07000643.hg.1 | 4.12 | PSR07010036.hg.1 | SERPINE1 |
| TC07000643.hg.1 | 3.69 | PSR07010023.hg.1 | SERPINE1 |
| TC07000643.hg.1 | 2.16 | PSR07010038.hg.1 | SERPINE1 |
| TC07000643.hg.1 | -4.69 | JUC07004647.hg.1 | SERPINE1 |
| TC08000298.hg.1 | 4.32 | JUC08002114.hg.1 | ADAM9 |
| TC08000298.hg.1 | -2.13 | PSR08004236.hg.1 | ADAM9 |
| TC09000857.hg.1 | 4.32 | PSR09011428.hg.1 | FAM157B |
| TC09000857.hg.1 | 3.39 | JUC09006159.hg.1 | FAM157B |
| TC09000857.hg.1 | 2.82 | JUC09006162.hg.1 | FAM157B |
| TC09000857.hg.1 | 2.27 | PSR09011430.hg.1 | FAM157B |
| TC09000857.hg.1 | 2.08 | PSR09011433.hg.1 | FAM157B |
| TC11000252.hg.1 | 4.32 | JUC11001689.hg.1 | NAV2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC11000252.hg.1 | 3.46 | PSR11003309.hg.1 | NAV2 |
| TC11000252.hg.1 | 2.79 | JUC11001652.hg.1 | NAV2 |
| TC11000252.hg.1 | 2.27 | PSR11003331.hg.1 | NAV2 |
| TC11000252.hg.1 | 2.27 | PSR11003335.hg.1 | NAV2 |
| TC11000252.hg.1 | 2.25 | JUC11001674.hg.1 | NAV2 |
| TC11000252.hg.1 | 2.24 | JUC11001690.hg.1 | NAV2 |
| TC11000252.hg.1 | 2.08 | PSR11003334.hg.1 | NAV2 |
| TC11000252.hg.1 | -2.16 | JUC11001677.hg.1 | NAV2 |
| TC19000256.hg.1 | 4.32 | JUC19002149.hg.1 | CD97 |
| TC19000256.hg.1 | 3.31 | JUC19002165.hg.1 | CD97 |
| TC19000256.hg.1 | 2.8 | JUC19002158.hg.1 | CD97 |
| TC19000256.hg.1 | 2.3 | JUC19002159.hg.1 | CD97 |
| TC19000256.hg.1 | 2.26 | PSR19003674.hg.1 | CD97 |
| TC19000256.hg.1 | -2.11 | JUC19002162.hg.1 | CD97 |
| TC01006336.hg.1 | 4.31 | JUC01044211.hg.1 | CADM3 |
| TC01006336.hg.1 | 2.79 | JUC01044209.hg.1 | CADM3 |
| TC01006336.hg.1 | 2.65 | PSR01021163.hg.1 | CADM3 |
| TC01006336.hg.1 | 2.51 | JUC01044204.hg.1 | CADM3 |
| TC01006336.hg.1 | 2.04 | PSR01021168.hg.1 | CADM3 |
| TC01006336.hg.1 | -2.28 | PSR01021161.hg.1 | CADM3 |
| TC01006336.hg.1 | -2.4 | JUC01044210.hg.1 | CADM3 |
| TC01006336.hg.1 | -2.5 | JUC01044208.hg.1 | CADM3 |
| TC01006336.hg.1 | -3.21 | PSR01021160.hg.1 | CADM3 |
| TC01006336.hg.1 | -3.47 | JUC01044214.hg.1 | CADM3 |
| TC01006336.hg.1 | -3.49 | JUC01044213.hg.1 | CADM3 |
| TC01006336.hg.1 | -3.59 | PSR01021162.hg.1 | CADM3 |
| TC01006336.hg.1 | -4.68 | PSR01021175.hg.1 | CADM3 |
| TC01006336.hg.1 | -4.91 | PSR01021166.hg.1 | CADM3 |
| TC05000565.hg.1 | 4.31 | PSR05007844.hg.1 | TNFAIP8 |
| TC05000565.hg.1 | 2.45 | JUC05004284.hg.1 | TNFAIP8 |
| TC05000565.hg.1 | 2.17 | JUC05004282.hg.1 | TNFAIP8 |
| TC05000565.hg.1 | -2.36 | JUC05004283.hg.1 | TNFAIP8 |
| TC01001817.hg.1 | 4.3 | JUC01015252.hg.1 | MARK1 |
| TC01001817.hg.1 | 2.67 | PSR01028278.hg.1 | MARK1 |
| TC01001817.hg.1 | -2.64 | PSR01028292.hg.1 | MARK1 |
| TC02001103.hg.1 | 4.3 | JUC02008855.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.9 | JUC02008852.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.84 | PSR02016560.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.6 | JUC02008863.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.51 | PSR02016563.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.5 | PSR02016558.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.49 | PSR02016585.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.42 | JUC02008865.hg.1 | GULP1 |
| TC02001103.hg.1 | 2.11 | PSR02016552.hg.1 | GULP1 |
| TC02001103.hg.1 | 2 | PSR02016562.hg.1 | GULP1 |
| TC08001686.hg.1 | 4.3 | JUC08011353.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 4.25 | JUC08011418.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 4.06 | JUC08011362.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 4.02 | JUC08011347.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 3.85 | JUC08011407.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 3.43 | JUC08011368.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 3.15 | JUC08011338.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 3.12 | JUC08011405.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 3.07 | PSR08022200.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 3.01 | JUC08011413.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.99 | JUC08011344.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.91 | PSR08022203.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.82 | PSR08022105.hg.1 | PTK2, LOC10 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC08001686.hg.1 | 2.82 | PSR08022227.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.81 | JUC08011348.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.73 | PSR08022233.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.59 | PSR08022234.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.58 | JUC08011375.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.57 | PSR08022155.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.56 | PSR08022211.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.54 | PSR08022206.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.53 | PSR08022207.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.51 | PSR08022235.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.5 | PSR08022162.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.5 | JUC08011391.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.48 | JUC08011377.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.47 | JUC08011341.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.43 | PSR08022119.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.41 | JUC08011423.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.39 | JUC08011357.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.39 | JUC08011421.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.38 | PSR08022111.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.36 | PSR08022089.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.35 | JUC08011419.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.34 | JUC08011359.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.31 | PSR08022120.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.3 | PSR08022221.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.29 | PSR08022070.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.29 | JUC08011320.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.27 | PSR08022178.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.27 | PSR08022222.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.25 | PSR08022209.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.24 | PSR08022212.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.17 | PSR08022091.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.17 | JUC08011382.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.16 | PSR08022166.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.15 | JUC08011372.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.12 | PSR08022214.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.11 | PSR08022116.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.11 | PSR08022175.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.08 | JUC08011330.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.07 | PSR08022077.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.05 | PSR08022195.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.04 | PSR08022143.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.01 | PSR08022191.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | 2.01 | PSR08022218.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | -2.01 | JUC08011385.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | -3.66 | PSR08022108.hg.1 | PTK2, LOC10 |
| TC08001686.hg.1 | -16.69 | JUC08011387.hg.1 | PTK2, LOC10 |
| TC10000488.hg.1 | 4.3 | JUC10003430.hg.1 | C10orf11 |
| TC10000488.hg.1 | 4.26 | PSR10005851.hg.1 | C10orf11 |
| TC10000488.hg.1 | 4.16 | PSR10005853.hg.1 | C10orf11 |
| TC10000488.hg.1 | 4.02 | JUC10003444.hg.1 | C10orf11 |
| TC10000488.hg.1 | 3.85 | PSR10005854.hg.1 | C10orf11 |
| TC10000488.hg.1 | 3.38 | PSR10005857.hg.1 | C10orf11 |
| TC10000488.hg.1 | 3.32 | PSR10005859.hg.1 | C10orf11 |
| TC10000488.hg.1 | 3.3 | JUC10003439.hg.1 | C10orf11 |
| TC10000488.hg.1 | 3.09 | JUC10003436.hg.1 | C10orf11 |
| TC10000488.hg.1 | 3.01 | PSR10005856.hg.1 | C10orf11 |
| TC10000488.hg.1 | 2.84 | PSR10005850.hg.1 | C10orf11 |
| TC10000488.hg.1 | 2.82 | JUC10003431.hg.1 | C10orf11 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10000488.hg.1 | 2.75 | JUC10003437.hg.1 | C10orf11 |
| TC10000488.hg.1 | 2.58 | PSR10005852.hg.1 | C10orf11 |
| TC10000488.hg.1 | 2.36 | PSR10005865.hg.1 | C10orf11 |
| TC10000488.hg.1 | 2.34 | JUC10003446.hg.1 | C10orf11 |
| TC10000488.hg.1 | 2.29 | JUC10003441.hg.1 | C10orf11 |
| TC17000704.hg.1 | 4.3 | JUC17004999.hg.1 | AKAP1 |
| TC17000704.hg.1 | 3.2 | PSR17009189.hg.1 | AKAP1 |
| TC17000704.hg.1 | 3.09 | PSR17009198.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.9 | PSR17009188.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.9 | PSR17009199.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.84 | JUC17004990.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.68 | PSR17009191.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.61 | JUC17004996.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.55 | PSR17009194.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.29 | JUC17004985.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.23 | PSR17009186.hg.1 | AKAP1 |
| TC17000704.hg.1 | 2.1 | PSR17009187.hg.1 | AKAP1 |
| TC17000704.hg.1 | -2.65 | JUC17004998.hg.1 | AKAP1 |
| TC17000704.hg.1 | -3.16 | JUC17004995.hg.1 | AKAP1 |
| TC17001781.hg.1 | 4.3 | JUC17013277.hg.1 | CYB561 |
| TC17001781.hg.1 | 2.14 | PSR17023721.hg.1 | CYB561 |
| TC17001781.hg.1 | 2.06 | JUC17013278.hg.1 | CYB561 |
| TC22000126.hg.1 | 4.3 | JUC22000646.hg.1 | GNAZ |
| TC22000126.hg.1 | 2.37 | PSR22002233.hg.1 | GNAZ |
| TC22000126.hg.1 | 2.14 | PSR22002214.hg.1 | GNAZ |
| TC22000126.hg.1 | 2.12 | JUC22000644.hg.1 | GNAZ |
| TC22000126.hg.1 | 2.08 | PSR22002218.hg.1 | GNAZ |
| TC22000126.hg.1 | -3.2 | JUC22000649.hg.1 | GNAZ |
| TC22000126.hg.1 | -4.01 | PSR22002226.hg.1 | GNAZ |
| TC01000892.hg.1 | 4.29 | JUC01007402.hg.1 | PALMD, MIR5 |
| TC01000892.hg.1 | 3.72 | PSR01014042.hg.1 | PALMD, MIR5 |
| TC01000892.hg.1 | 2.17 | PSR01014043.hg.1 | PALMD, MIR5 |
| TC01000892.hg.1 | -2.67 | JUC01007410.hg.1 | PALMD, MIR5 |
| TC01001907.hg.1 | 4.29 | JUC01016003.hg.1 | GALNT2 |
| TC01001907.hg.1 | 4.28 | PSR01029600.hg.1 | GALNT2 |
| TC01001907.hg.1 | 2.92 | JUC01015999.hg.1 | GALNT2 |
| TC01001907.hg.1 | 2.53 | JUC01016006.hg.1 | GALNT2 |
| TC01001907.hg.1 | 2.48 | PSR01029618.hg.1 | GALNT2 |
| TC01001907.hg.1 | 2.3 | PSR01029620.hg.1 | GALNT2 |
| TC01001907.hg.1 | -5.01 | JUC01015987.hg.1 | GALNT2 |
| TC01003271.hg.1 | 4.29 | JUC01026612.hg.1 | S100A13 |
| TC01003271.hg.1 | 3.68 | PSR01050359.hg.1 | S100A13 |
| TC01003271.hg.1 | 3.25 | JUC01026619.hg.1 | S100A13 |
| TC01003271.hg.1 | 3.05 | JUC01026614.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.95 | PSR01050360.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.89 | PSR01050365.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.77 | PSR01050353.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.69 | PSR01050352.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.68 | PSR01050357.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.55 | PSR01050363.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.34 | JUC01026608.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.33 | PSR01050341.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.33 | PSR01050364.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.3 | JUC01026615.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.08 | JUC01026609.hg.1 | S100A13 |
| TC01003271.hg.1 | 2.04 | PSR01050356.hg.1 | S100A13 |
| TC06000733.hg.1 | 4.29 | JUC06004012.hg.1 | DDX43 |
| TC06000733.hg.1 | 2.5 | PSR06008759.hg.1 | DDX43 |

| | | | |
|-----------------|-------|------------------|----------|
| TC06000733.hg.1 | 2.09 | JUC06004013.hg.1 | DDX43 |
| TC06000733.hg.1 | -2.52 | PSR06008775.hg.1 | DDX43 |
| TC06000733.hg.1 | -2.71 | PSR06008769.hg.1 | DDX43 |
| TC06000733.hg.1 | -2.83 | PSR06008753.hg.1 | DDX43 |
| TC06000733.hg.1 | -2.9 | JUC06004001.hg.1 | DDX43 |
| TC06000733.hg.1 | -3.06 | JUC06004015.hg.1 | DDX43 |
| TC06000733.hg.1 | -3.37 | PSR06008771.hg.1 | DDX43 |
| TC06000733.hg.1 | -3.42 | PSR06008757.hg.1 | DDX43 |
| TC06000733.hg.1 | -3.57 | PSR06008764.hg.1 | DDX43 |
| TC06000733.hg.1 | -3.64 | PSR06008752.hg.1 | DDX43 |
| TC06000733.hg.1 | -4.94 | JUC06004016.hg.1 | DDX43 |
| TC07000011.hg.1 | 4.29 | JUC07000038.hg.1 | HEATR2 |
| TC07000011.hg.1 | 3.29 | JUC07000046.hg.1 | HEATR2 |
| TC07000011.hg.1 | 2.85 | JUC07000048.hg.1 | HEATR2 |
| TC07000011.hg.1 | 2.32 | JUC07000036.hg.1 | HEATR2 |
| TC07000011.hg.1 | 2.28 | PSR07000075.hg.1 | HEATR2 |
| TC07000011.hg.1 | 2.24 | PSR07000058.hg.1 | HEATR2 |
| TC07000011.hg.1 | 2.14 | PSR07000083.hg.1 | HEATR2 |
| TC07001256.hg.1 | 4.29 | JUC07009513.hg.1 | PDE1C |
| TC07001256.hg.1 | 3.27 | JUC07009509.hg.1 | PDE1C |
| TC07001256.hg.1 | 3.03 | PSR07019605.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.83 | PSR07019604.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.82 | PSR07019602.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.59 | PSR07019597.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.52 | PSR07019577.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.37 | PSR07019596.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.3 | PSR07019606.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.22 | JUC07009516.hg.1 | PDE1C |
| TC07001256.hg.1 | 2.15 | PSR07019599.hg.1 | PDE1C |
| TC07001256.hg.1 | -2.19 | JUC07009532.hg.1 | PDE1C |
| TC07001563.hg.1 | 4.29 | JUC07011692.hg.1 | CACNA2D1 |
| TC07001563.hg.1 | 3.04 | JUC07011714.hg.1 | CACNA2D1 |
| TC07001563.hg.1 | 2.41 | JUC07011696.hg.1 | CACNA2D1 |
| TC07001563.hg.1 | 2.07 | JUC07011679.hg.1 | CACNA2D1 |
| TC07001563.hg.1 | 2.07 | JUC07011694.hg.1 | CACNA2D1 |
| TC07001563.hg.1 | 2.02 | PSR07023520.hg.1 | CACNA2D1 |
| TC07001563.hg.1 | -2.13 | JUC07011706.hg.1 | CACNA2D1 |
| TC10001721.hg.1 | 4.29 | JUC10013201.hg.1 | CPXM2 |
| TC10001721.hg.1 | 3.62 | JUC10013200.hg.1 | CPXM2 |
| TC10001721.hg.1 | 3.1 | JUC10013207.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.73 | PSR10022809.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.49 | JUC10013203.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.45 | JUC10013202.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.41 | PSR10022810.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.33 | PSR10022807.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.29 | PSR10022836.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.22 | JUC10013192.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.19 | PSR10022822.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.15 | PSR10022838.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.08 | JUC10013194.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.06 | PSR10022815.hg.1 | CPXM2 |
| TC10001721.hg.1 | 2.05 | JUC10013193.hg.1 | CPXM2 |
| TC10001721.hg.1 | -2.14 | PSR10022828.hg.1 | CPXM2 |
| TC10001721.hg.1 | -2.77 | PSR10022816.hg.1 | CPXM2 |
| TC10001721.hg.1 | -3.4 | JUC10013197.hg.1 | CPXM2 |
| TC01001498.hg.1 | 4.28 | PSR01023294.hg.1 | DNM3 |
| TC01001498.hg.1 | 3.86 | JUC01012286.hg.1 | DNM3 |
| TC01001498.hg.1 | 3.7 | PSR01023295.hg.1 | DNM3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC01001498.hg.1 | 3.49 | PSR01023288.hg.1 | DNM3 |
| TC01001498.hg.1 | -2.06 | JUC01012288.hg.1 | DNM3 |
| TC01001498.hg.1 | -2.18 | JUC01012302.hg.1 | DNM3 |
| TC01001498.hg.1 | -2.69 | JUC01012278.hg.1 | DNM3 |
| TC09000608.hg.1 | 4.28 | JUC09003881.hg.1 | GSN |
| TC09000608.hg.1 | 4.03 | JUC09003878.hg.1 | GSN |
| TC09000608.hg.1 | 3.84 | PSR09006919.hg.1 | GSN |
| TC09000608.hg.1 | 3.69 | PSR09006917.hg.1 | GSN |
| TC09000608.hg.1 | 3.25 | PSR09006918.hg.1 | GSN |
| TC09000608.hg.1 | 3.09 | PSR09006977.hg.1 | GSN |
| TC09000608.hg.1 | 3 | JUC09003898.hg.1 | GSN |
| TC09000608.hg.1 | 2.87 | PSR09006976.hg.1 | GSN |
| TC09000608.hg.1 | 2.85 | JUC09003899.hg.1 | GSN |
| TC09000608.hg.1 | 2.52 | PSR09006912.hg.1 | GSN |
| TC09000608.hg.1 | 2.35 | PSR09006981.hg.1 | GSN |
| TC09000608.hg.1 | 2.29 | JUC09003874.hg.1 | GSN |
| TC09000608.hg.1 | 2.25 | PSR09006940.hg.1 | GSN |
| TC09000608.hg.1 | 2.18 | PSR09006923.hg.1 | GSN |
| TC09000608.hg.1 | 2.14 | PSR09006941.hg.1 | GSN |
| TC09000608.hg.1 | 2.12 | PSR09006991.hg.1 | GSN |
| TC09000608.hg.1 | 2.1 | PSR09006929.hg.1 | GSN |
| TC09000608.hg.1 | 2.09 | PSR09006921.hg.1 | GSN |
| TC09000608.hg.1 | 2 | JUC09003883.hg.1 | GSN |
| TC09000608.hg.1 | -2.06 | PSR09006956.hg.1 | GSN |
| TC09000608.hg.1 | -2.56 | JUC09003897.hg.1 | GSN |
| TC09002903.hg.1 | 4.28 | PSR09005625.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 3.92 | JUC09015843.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 3.63 | PSR09005621.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 3.31 | JUC09015846.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 2.94 | PSR09005622.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 2.74 | PSR09005633.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 2.14 | JUC09015853.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 2.09 | JUC09015850.hg.1 | TMEFF1 |
| TC09002903.hg.1 | 2 | JUC09015848.hg.1 | TMEFF1 |
| TC17001830.hg.1 | 4.28 | JUC17013830.hg.1 | ABCA5 |
| TC17001830.hg.1 | 3.77 | JUC17013858.hg.1 | ABCA5 |
| TC17001830.hg.1 | 3.38 | JUC17013860.hg.1 | ABCA5 |
| TC17001830.hg.1 | 2.2 | PSR17024654.hg.1 | ABCA5 |
| TC17001830.hg.1 | 2.02 | PSR17024639.hg.1 | ABCA5 |
| TC17001830.hg.1 | -2.5 | JUC17013826.hg.1 | ABCA5 |
| TC17001830.hg.1 | -2.56 | PSR17024645.hg.1 | ABCA5 |
| TC17001830.hg.1 | -3.04 | PSR17024664.hg.1 | ABCA5 |
| TC20000818.hg.1 | 4.28 | JUC20005785.hg.1 | DSN1 |
| TC20000818.hg.1 | 2.44 | PSR20011228.hg.1 | DSN1 |
| TC20000818.hg.1 | 2.29 | PSR20011226.hg.1 | DSN1 |
| TC20000818.hg.1 | 2 | PSR20011219.hg.1 | DSN1 |
| TC20000818.hg.1 | -2 | JUC20005783.hg.1 | DSN1 |
| TC20000818.hg.1 | -2.41 | JUC20005782.hg.1 | DSN1 |
| TC09001104.hg.1 | 4.27 | JUC09007883.hg.1 | ZNF658B |
| TC09001104.hg.1 | 2.59 | PSR09014684.hg.1 | ZNF658B |
| TC09001104.hg.1 | 2.54 | PSR09014685.hg.1 | ZNF658B |
| TC09001104.hg.1 | 2.21 | PSR09014686.hg.1 | ZNF658B |
| TC09001104.hg.1 | 2.19 | PSR09014678.hg.1 | ZNF658B |
| TC0X001368.hg.1 | 4.26 | JUC0X009404.hg.1 | FRMD7 |
| TC0X001368.hg.1 | 2.44 | PSR0X018371.hg.1 | FRMD7 |
| TC0X001368.hg.1 | 2.26 | PSR0X018366.hg.1 | FRMD7 |
| TC0X001368.hg.1 | -2.31 | PSR0X018361.hg.1 | FRMD7 |
| TC0X001368.hg.1 | -2.59 | JUC0X009397.hg.1 | FRMD7 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC0X001368.hg.1 | -2.93 | JUC0X009402.hg.1 | FRMD7 |
| TC0X001368.hg.1 | -3.07 | JUC0X009405.hg.1 | FRMD7 |
| TC14001255.hg.1 | 4.26 | JUC14007199.hg.1 | ACTN1 |
| TC14001255.hg.1 | 2.23 | PSR14014277.hg.1 | ACTN1 |
| TC14001255.hg.1 | 2.19 | JUC14007207.hg.1 | ACTN1 |
| TC14001255.hg.1 | 2.06 | JUC14007210.hg.1 | ACTN1 |
| TC02002922.hg.1 | 4.25 | JUC02024536.hg.1 | HDAC4 |
| TC02002922.hg.1 | 2.92 | JUC02024545.hg.1 | HDAC4 |
| TC02002922.hg.1 | 2.02 | JUC02024538.hg.1 | HDAC4 |
| TC02002922.hg.1 | -2.08 | JUC02024546.hg.1 | HDAC4 |
| TC02002922.hg.1 | -2.12 | JUC02024527.hg.1 | HDAC4 |
| TC02002922.hg.1 | -2.16 | PSR02046879.hg.1 | HDAC4 |
| TC02002922.hg.1 | -2.21 | PSR02046850.hg.1 | HDAC4 |
| TC02002922.hg.1 | -2.72 | JUC02024520.hg.1 | HDAC4 |
| TC02002922.hg.1 | -3.49 | PSR02046874.hg.1 | HDAC4 |
| TC08002591.hg.1 | 4.25 | JUC08014901.hg.1 | PPP2R2A |
| TC08002591.hg.1 | 2.77 | JUC08014900.hg.1 | PPP2R2A |
| TC08002591.hg.1 | 2.04 | JUC08014885.hg.1 | PPP2R2A |
| TC08002591.hg.1 | -2.1 | PSR08002735.hg.1 | PPP2R2A |
| TC09000550.hg.1 | 4.25 | JUC09003392.hg.1 | AKAP2, PALM |
| TC09000550.hg.1 | 3.43 | JUC09003381.hg.1 | AKAP2, PALM |
| TC09000550.hg.1 | 2.27 | PSR09006105.hg.1 | AKAP2, PALM |
| TC09000550.hg.1 | 2.26 | JUC09003382.hg.1 | AKAP2, PALM |
| TC09000550.hg.1 | 2.23 | PSR09006117.hg.1 | AKAP2, PALM |
| TC09000550.hg.1 | 2.05 | JUC09003385.hg.1 | AKAP2, PALM |
| TC09000550.hg.1 | -3.98 | PSR09006144.hg.1 | AKAP2, PALM |
| TC05000471.hg.1 | 4.23 | PSR05006726.hg.1 | ERAP2 |
| TC05000471.hg.1 | 4.18 | PSR05006736.hg.1 | ERAP2 |
| TC05000471.hg.1 | 3.81 | JUC05003690.hg.1 | ERAP2 |
| TC05000471.hg.1 | 2.88 | JUC05003693.hg.1 | ERAP2 |
| TC05000471.hg.1 | 2.62 | PSR05006748.hg.1 | ERAP2 |
| TC05000471.hg.1 | 2.37 | PSR05006728.hg.1 | ERAP2 |
| TC05000471.hg.1 | 2.24 | JUC05003699.hg.1 | ERAP2 |
| TC05000471.hg.1 | -2.16 | PSR05006733.hg.1 | ERAP2 |
| TC05000471.hg.1 | -2.16 | PSR05006755.hg.1 | ERAP2 |
| TC05000471.hg.1 | -2.29 | PSR05006739.hg.1 | ERAP2 |
| TC05000471.hg.1 | -2.5 | PSR05006725.hg.1 | ERAP2 |
| TC05000471.hg.1 | -2.77 | PSR05006738.hg.1 | ERAP2 |
| TC05000471.hg.1 | -2.82 | PSR05006754.hg.1 | ERAP2 |
| TC05000471.hg.1 | -3.22 | PSR05006720.hg.1 | ERAP2 |
| TC05000471.hg.1 | -3.62 | PSR05006753.hg.1 | ERAP2 |
| TC05000471.hg.1 | -3.92 | PSR05006747.hg.1 | ERAP2 |
| TC06001772.hg.1 | 4.23 | JUC06010173.hg.1 | CYP39A1 |
| TC06001772.hg.1 | 3.08 | JUC06010159.hg.1 | CYP39A1 |
| TC06001772.hg.1 | 2.72 | JUC06010158.hg.1 | CYP39A1 |
| TC06001772.hg.1 | 2.51 | PSR06021343.hg.1 | CYP39A1 |
| TC06001772.hg.1 | 2.33 | PSR06021328.hg.1 | CYP39A1 |
| TC06001772.hg.1 | -2.04 | JUC06010168.hg.1 | CYP39A1 |
| TC07003320.hg.1 | 4.23 | PSR07001383.hg.1 | GLCC1 |
| TC07003320.hg.1 | 4.08 | JUC07020823.hg.1 | GLCC1 |
| TC07003320.hg.1 | 3.42 | PSR07001369.hg.1 | GLCC1 |
| TC07003320.hg.1 | 3.19 | PSR07001344.hg.1 | GLCC1 |
| TC07003320.hg.1 | 3.14 | JUC07020827.hg.1 | GLCC1 |
| TC07003320.hg.1 | 3.01 | PSR07001347.hg.1 | GLCC1 |
| TC07003320.hg.1 | 2.81 | PSR07001360.hg.1 | GLCC1 |
| TC07003320.hg.1 | 2.6 | JUC07020821.hg.1 | GLCC1 |
| TC07003320.hg.1 | 2.6 | JUC07020836.hg.1 | GLCC1 |
| TC07003320.hg.1 | 2.54 | PSR07001364.hg.1 | GLCC1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC07003320.hg.1 | 2.42 | PSR07001356.hg.1 | GLCC11 |
| TC07003320.hg.1 | 2.41 | JUC07020820.hg.1 | GLCC11 |
| TC07003320.hg.1 | 2.4 | PSR07001375.hg.1 | GLCC11 |
| TC07003320.hg.1 | 2.36 | PSR07001382.hg.1 | GLCC11 |
| TC07003320.hg.1 | 2.08 | JUC07020839.hg.1 | GLCC11 |
| TC07003320.hg.1 | 2.01 | PSR07001378.hg.1 | GLCC11 |
| TC11002175.hg.1 | 4.23 | JUC11013825.hg.1 | CTSC |
| TC11002175.hg.1 | 2.29 | JUC11013829.hg.1 | CTSC |
| TC11002175.hg.1 | -2.07 | JUC11013823.hg.1 | CTSC |
| TC11002175.hg.1 | -2.26 | PSR11026033.hg.1 | CTSC |
| TC11002175.hg.1 | -2.59 | PSR11026032.hg.1 | CTSC |
| TC11002175.hg.1 | -2.73 | JUC11013822.hg.1 | CTSC |
| TC11002175.hg.1 | -4.82 | JUC11013824.hg.1 | CTSC |
| TC11002175.hg.1 | -5.17 | PSR11026034.hg.1 | CTSC |
| TC11002175.hg.1 | -5.96 | JUC11013833.hg.1 | CTSC |
| TC11002433.hg.1 | 4.23 | JUC11015529.hg.1 | |
| TC11002433.hg.1 | 3.04 | PSR11029153.hg.1 | |
| TC11002433.hg.1 | 2.03 | PSR11029151.hg.1 | |
| TC17002910.hg.1 | 4.23 | JUC17019118.hg.1 | HOXB6 |
| TC17002910.hg.1 | 3.53 | PSR17022019.hg.1 | HOXB6 |
| TC17002910.hg.1 | 3.38 | PSR17022018.hg.1 | HOXB6 |
| TC17002910.hg.1 | 3.36 | JUC17019124.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.93 | PSR17022027.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.87 | JUC17019120.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.76 | JUC17019117.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.64 | PSR17022015.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.45 | PSR17022013.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.28 | PSR17022012.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.1 | PSR17022026.hg.1 | HOXB6 |
| TC17002910.hg.1 | 2.07 | PSR17022016.hg.1 | HOXB6 |
| TC17002910.hg.1 | -2.01 | JUC17019122.hg.1 | HOXB6 |
| TC17002910.hg.1 | -2.66 | PSR17022021.hg.1 | HOXB6 |
| TC21000175.hg.1 | 4.23 | JUC21000861.hg.1 | WRB |
| TC21000175.hg.1 | 2.5 | JUC21000850.hg.1 | WRB |
| TC21000175.hg.1 | 2.47 | JUC21000847.hg.1 | WRB |
| TC21000175.hg.1 | 2.05 | JUC21000859.hg.1 | WRB |
| TC21000175.hg.1 | 2 | JUC21000849.hg.1 | WRB |
| TC21000175.hg.1 | -2.06 | PSR21001660.hg.1 | WRB |
| TC21000175.hg.1 | -2.29 | PSR21001661.hg.1 | WRB |
| TC22001467.hg.1 | 4.23 | JUC22009301.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 3.62 | PSR22005804.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 2.92 | PSR22005823.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 2.83 | PSR22005811.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 2.76 | PSR22005805.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 2.69 | PSR22005815.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 2.38 | PSR22005812.hg.1 | APOBEC3F |
| TC22001467.hg.1 | 2.11 | PSR22005817.hg.1 | APOBEC3F |
| TC22001467.hg.1 | -2.02 | JUC22009298.hg.1 | APOBEC3F |
| TC22001467.hg.1 | -2.07 | JUC22009305.hg.1 | APOBEC3F |
| TC01002541.hg.1 | 4.22 | JUC01021212.hg.1 | PABPC4 |
| TC01002541.hg.1 | 2.58 | PSR01039532.hg.1 | PABPC4 |
| TC01002541.hg.1 | 2.56 | PSR01039570.hg.1 | PABPC4 |
| TC01002541.hg.1 | 2.46 | PSR01039528.hg.1 | PABPC4 |
| TC01002541.hg.1 | 2.14 | PSR01039530.hg.1 | PABPC4 |
| TC01002541.hg.1 | -3.17 | PSR01039560.hg.1 | PABPC4 |
| TC01003018.hg.1 | 4.22 | PSR01047110.hg.1 | NGF |
| TC01003018.hg.1 | 3.58 | PSR01047115.hg.1 | NGF |
| TC01003018.hg.1 | -2.76 | PSR01047113.hg.1 | NGF |

| | | | |
|-----------------|--------|------------------|---------|
| TC01003018.hg.1 | -2.93 | JUC01025253.hg.1 | NGF |
| TC03001677.hg.1 | 4.22 | PSR03030222.hg.1 | |
| TC03001677.hg.1 | 2.92 | PSR03030219.hg.1 | |
| TC03001677.hg.1 | 2.31 | PSR03030223.hg.1 | |
| TC03001677.hg.1 | 2.26 | PSR03030221.hg.1 | |
| TC03001677.hg.1 | 2.24 | PSR03030224.hg.1 | |
| TC03001677.hg.1 | 2.2 | PSR03030218.hg.1 | |
| TC03001677.hg.1 | 2.16 | JUC03015015.hg.1 | |
| TC04000432.hg.1 | 4.22 | PSR04006124.hg.1 | CXCL13 |
| TC04000432.hg.1 | -2.06 | JUC04003081.hg.1 | CXCL13 |
| TC04000432.hg.1 | -5.2 | PSR04006122.hg.1 | CXCL13 |
| TC04000432.hg.1 | -11.27 | JUC04003082.hg.1 | CXCL13 |
| TC04000432.hg.1 | -35.7 | PSR04006119.hg.1 | CXCL13 |
| TC04001171.hg.1 | 4.22 | JUC04008522.hg.1 | NFXL1 |
| TC04001171.hg.1 | 3.9 | PSR04016064.hg.1 | NFXL1 |
| TC04001171.hg.1 | 3.35 | PSR04016070.hg.1 | NFXL1 |
| TC04001171.hg.1 | 3.3 | JUC04008530.hg.1 | NFXL1 |
| TC04001171.hg.1 | 3.23 | PSR04016068.hg.1 | NFXL1 |
| TC04001171.hg.1 | 3.22 | JUC04008518.hg.1 | NFXL1 |
| TC04001171.hg.1 | 2.75 | PSR04016063.hg.1 | NFXL1 |
| TC04001171.hg.1 | 2.5 | PSR04016067.hg.1 | NFXL1 |
| TC04001171.hg.1 | 2.18 | PSR04016061.hg.1 | NFXL1 |
| TC04001171.hg.1 | 2.18 | JUC04008537.hg.1 | NFXL1 |
| TC04001171.hg.1 | -2 | JUC04008523.hg.1 | NFXL1 |
| TC04001171.hg.1 | -2.03 | PSR04016097.hg.1 | NFXL1 |
| TC04001171.hg.1 | -2.3 | JUC04008540.hg.1 | NFXL1 |
| TC05001763.hg.1 | 4.22 | JUC05012321.hg.1 | P4HA2 |
| TC05001763.hg.1 | 2.21 | JUC05012311.hg.1 | P4HA2 |
| TC05001763.hg.1 | -2.1 | JUC05012329.hg.1 | P4HA2 |
| TC05001763.hg.1 | -3.04 | PSR05023797.hg.1 | P4HA2 |
| TC06001854.hg.1 | 4.22 | JUC06010865.hg.1 | LMBRD1 |
| TC06001854.hg.1 | 2.72 | PSR06022501.hg.1 | LMBRD1 |
| TC06001854.hg.1 | 2.71 | JUC06010869.hg.1 | LMBRD1 |
| TC06001854.hg.1 | 2.03 | PSR06022481.hg.1 | LMBRD1 |
| TC07001920.hg.1 | 4.22 | JUC07014753.hg.1 | SLC37A3 |
| TC07001920.hg.1 | 2.1 | PSR07029754.hg.1 | SLC37A3 |
| TC07001920.hg.1 | 2.04 | PSR07029793.hg.1 | SLC37A3 |
| TC07001920.hg.1 | -2.18 | PSR07029790.hg.1 | SLC37A3 |
| TC07001920.hg.1 | -2.41 | PSR07029785.hg.1 | SLC37A3 |
| TC07001920.hg.1 | -2.75 | JUC07014744.hg.1 | SLC37A3 |
| TC01002322.hg.1 | 4.21 | PSR01035672.hg.1 | ECE1 |
| TC01002322.hg.1 | 4.03 | PSR01035684.hg.1 | ECE1 |
| TC01002322.hg.1 | 3.67 | JUC01019208.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.87 | PSR01035694.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.7 | PSR01035695.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.6 | PSR01035703.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.55 | PSR01035663.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.38 | PSR01035698.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.35 | PSR01035664.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.33 | PSR01035701.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.28 | JUC01019196.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.23 | PSR01035660.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.18 | PSR01035661.hg.1 | ECE1 |
| TC01002322.hg.1 | 2.06 | PSR01035700.hg.1 | ECE1 |
| TC02005009.hg.1 | 4.21 | PSR02021445.hg.1 | SP140 |
| TC02005009.hg.1 | 2.21 | PSR02021498.hg.1 | SP140 |
| TC02005009.hg.1 | 2.13 | JUC02032051.hg.1 | SP140 |
| TC02005009.hg.1 | 2.05 | JUC02032063.hg.1 | SP140 |

| | | | |
|-----------------|-------|------------------|----------|
| TC02005009.hg.1 | -2.23 | JUC02032086.hg.1 | SP140 |
| TC03003372.hg.1 | 4.21 | JUC03024006.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 3.13 | JUC03023994.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.74 | JUC03023995.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.68 | PSR03019707.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.61 | PSR03019684.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.55 | JUC03023993.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.33 | JUC03024008.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.13 | JUC03024001.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2.02 | JUC03024023.hg.1 | SRGAP3 |
| TC03003372.hg.1 | 2 | JUC03024020.hg.1 | SRGAP3 |
| TC06001771.hg.1 | 4.21 | PSR06021319.hg.1 | RCAN2 |
| TC06001771.hg.1 | 4.09 | PSR06021322.hg.1 | RCAN2 |
| TC06001771.hg.1 | 3.27 | PSR06021316.hg.1 | RCAN2 |
| TC06001771.hg.1 | 3.05 | PSR06021314.hg.1 | RCAN2 |
| TC06001771.hg.1 | 2.43 | PSR06021321.hg.1 | RCAN2 |
| TC06001771.hg.1 | 2.02 | PSR06021309.hg.1 | RCAN2 |
| TC06001771.hg.1 | -3.29 | JUC06010155.hg.1 | RCAN2 |
| TC20000538.hg.1 | 4.21 | JUC20004053.hg.1 | C20orf96 |
| TC20000538.hg.1 | -2.23 | PSR20007766.hg.1 | C20orf96 |
| TC20000538.hg.1 | -2.35 | JUC20004046.hg.1 | C20orf96 |
| TC20000538.hg.1 | -4.45 | JUC20004049.hg.1 | C20orf96 |
| TC02001267.hg.1 | 4.2 | JUC02010472.hg.1 | |
| TC02001267.hg.1 | 2.14 | PSR02019422.hg.1 | |
| TC02001267.hg.1 | -2.14 | PSR02019421.hg.1 | |
| TC04000429.hg.1 | 4.2 | PSR04006026.hg.1 | |
| TC04000429.hg.1 | 3.97 | JUC04003034.hg.1 | |
| TC04000429.hg.1 | 3.2 | PSR04006029.hg.1 | |
| TC04000429.hg.1 | -2.65 | PSR04006028.hg.1 | |
| TC08000022.hg.1 | 4.2 | PSR08000343.hg.1 | AGPAT5 |
| TC08000022.hg.1 | 3.08 | PSR08000359.hg.1 | AGPAT5 |
| TC08000022.hg.1 | 2.41 | PSR08000342.hg.1 | AGPAT5 |
| TC08000022.hg.1 | 2.24 | JUC08000201.hg.1 | AGPAT5 |
| TC08000022.hg.1 | 2.18 | JUC08000198.hg.1 | AGPAT5 |
| TC0X001354.hg.1 | 4.2 | PSR0X018132.hg.1 | APLN |
| TC0X001354.hg.1 | -3.21 | JUC0X009244.hg.1 | APLN |
| TC0X001354.hg.1 | -5.64 | PSR0X018129.hg.1 | APLN |
| TC0X001354.hg.1 | -7.22 | PSR0X018127.hg.1 | APLN |
| TC14001474.hg.1 | 4.2 | PSR14016658.hg.1 | CLMN |
| TC14001474.hg.1 | 3.92 | JUC14008596.hg.1 | CLMN |
| TC14001474.hg.1 | 3.59 | PSR14016644.hg.1 | CLMN |
| TC14001474.hg.1 | 2.99 | JUC14008611.hg.1 | CLMN |
| TC14001474.hg.1 | 2.93 | PSR14016645.hg.1 | CLMN |
| TC14001474.hg.1 | 2.57 | PSR14016632.hg.1 | CLMN |
| TC14001474.hg.1 | 2.26 | PSR14016633.hg.1 | CLMN |
| TC14001474.hg.1 | 2.26 | PSR14016642.hg.1 | CLMN |
| TC14001474.hg.1 | 2.12 | PSR14016652.hg.1 | CLMN |
| TC14001474.hg.1 | 2.07 | JUC14008599.hg.1 | CLMN |
| TC14001474.hg.1 | -2.08 | PSR14016648.hg.1 | CLMN |
| TC14001474.hg.1 | -2.45 | PSR14016643.hg.1 | CLMN |
| TC02001139.hg.1 | 4.19 | PSR02017197.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 3.59 | JUC02009214.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 3.07 | JUC02009217.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 2.86 | PSR02017204.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 2.68 | JUC02009213.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 2.55 | JUC02009224.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 2.42 | PSR02017205.hg.1 | SLC39A10 |
| TC02001139.hg.1 | 2.17 | PSR02017220.hg.1 | SLC39A10 |

| | | | |
|-----------------|-------|-------------------|--------|
| TC07001152.hg.1 | 4.19 | JUC07008786.hg.1 | ETV1 |
| TC07001152.hg.1 | 4.11 | JUC07008770.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.65 | JUC07008783.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.47 | JUC07008762.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.45 | PSR07018029.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.38 | PSR07018046.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.27 | JUC07008790.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.26 | PSR07018052.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.14 | PSR07018053.hg.1 | ETV1 |
| TC07001152.hg.1 | 2.06 | PSR07018007.hg.1 | ETV1 |
| TC07001152.hg.1 | -2.38 | PSR07018034.hg.1 | ETV1 |
| TC07001152.hg.1 | -2.5 | PSR07018037.hg.1 | ETV1 |
| TC07001152.hg.1 | -2.74 | PSR07018017.hg.1 | ETV1 |
| TC06004073.hg.1 | 4.18 | JUC06020958.hg.1 | MICA |
| TC06004073.hg.1 | 3.88 | PSR06003469.hg.1 | MICA |
| TC06004073.hg.1 | 3.5 | PSR06003455.hg.1 | MICA |
| TC06004073.hg.1 | 3.16 | JUC06020963.hg.1 | MICA |
| TC06004073.hg.1 | 2.99 | JUC06020965.hg.1 | MICA |
| TC06004073.hg.1 | 2.88 | PSR06003443.hg.1 | MICA |
| TC06004073.hg.1 | 2.69 | JUC06020961.hg.1 | MICA |
| TC06004073.hg.1 | 2.68 | JUC06020964.hg.1 | MICA |
| TC06004073.hg.1 | 2.63 | PSR06003454.hg.1 | MICA |
| TC06004073.hg.1 | 2.31 | JUC06020955.hg.1 | MICA |
| TC06004073.hg.1 | 2.3 | JUC06020960.hg.1 | MICA |
| TC06004073.hg.1 | 2.29 | JUC06020952.hg.1 | MICA |
| TC06004073.hg.1 | 2.09 | PSR06003451.hg.1 | MICA |
| TC06004073.hg.1 | 2.02 | JUC06020957.hg.1 | MICA |
| TC10001053.hg.1 | 4.18 | JUC10007578.hg.1 | FRMD4A |
| TC10001053.hg.1 | 3.93 | PSR10013129.hg.1 | FRMD4A |
| TC10001053.hg.1 | 3.4 | JUC10007585.hg.1 | FRMD4A |
| TC10001053.hg.1 | 3.17 | PSR10013083.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.85 | JUC10007586.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.71 | JUC10007577.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.67 | PSR10013111.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.61 | PSR10013137.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.51 | JUC10007576.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.46 | PSR10013131.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.36 | PSR10013090.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.33 | PSR10013118.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.31 | PSR10013110.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.23 | JUC10007589.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.14 | PSR10013128.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.12 | PSR10013109.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.06 | JUC10007580.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.06 | JUC10007605.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.03 | PSR10013125.hg.1 | FRMD4A |
| TC10001053.hg.1 | 2.02 | PSR10013104.hg.1 | FRMD4A |
| TC10001053.hg.1 | -2.62 | JUC10007592.hg.1 | FRMD4A |
| TC10001053.hg.1 | -4.8 | JUC10007588.hg.1 | FRMD4A |
| TC6_cox_hap2000 | 4.18 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 3.88 | PSR6_cox_hap20008 | MICA |
| TC6_cox_hap2000 | 3.5 | PSR6_cox_hap20008 | MICA |
| TC6_cox_hap2000 | 3.16 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 3.03 | PSR6_cox_hap20008 | MICA |
| TC6_cox_hap2000 | 2.99 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 2.69 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 2.68 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 2.66 | PSR6_cox_hap20008 | MICA |

| | | | |
|------------------|-------|-------------------|---------|
| TC6_cox_hap2000 | 2.31 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 2.3 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 2.29 | JUC6_cox_hap20018 | MICA |
| TC6_cox_hap2000 | 2.09 | PSR6_cox_hap20008 | MICA |
| TC6_cox_hap2000 | 2.02 | JUC6_cox_hap20018 | MICA |
| TC6_qbl_hap60002 | 4.18 | PSR6_qbl_hap60001 | HLA-H |
| TC6_qbl_hap60002 | 2.51 | JUC6_qbl_hap60018 | HLA-H |
| TC6_qbl_hap60002 | 2.23 | JUC6_qbl_hap60018 | HLA-H |
| TC6_qbl_hap60002 | 2.03 | PSR6_qbl_hap60001 | HLA-H |
| TC6_ssto_hap7000 | 4.18 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 3.88 | PSR6_ssto_hap7000 | MICA |
| TC6_ssto_hap7000 | 3.5 | PSR6_ssto_hap7000 | MICA |
| TC6_ssto_hap7000 | 3.16 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 3.03 | PSR6_ssto_hap7000 | MICA |
| TC6_ssto_hap7000 | 2.99 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 2.69 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 2.68 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 2.66 | PSR6_ssto_hap7000 | MICA |
| TC6_ssto_hap7000 | 2.31 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 2.3 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 2.29 | JUC6_ssto_hap7001 | MICA |
| TC6_ssto_hap7000 | 2.09 | PSR6_ssto_hap7000 | MICA |
| TC6_ssto_hap7000 | 2.02 | JUC6_ssto_hap7001 | MICA |
| TC05003425.hg.1 | 4.17 | JUC05019586.hg.1 | DAB2 |
| TC05003425.hg.1 | 3.39 | JUC05019595.hg.1 | DAB2 |
| TC05003425.hg.1 | 2.63 | JUC05019604.hg.1 | DAB2 |
| TC05003425.hg.1 | 2.34 | JUC05019610.hg.1 | DAB2 |
| TC05003425.hg.1 | 2.14 | JUC05019612.hg.1 | DAB2 |
| TC05003425.hg.1 | -2.64 | PSR05018231.hg.1 | DAB2 |
| TC08001464.hg.1 | 4.17 | JUC08009663.hg.1 | STK3 |
| TC08001464.hg.1 | 3.44 | JUC08009664.hg.1 | STK3 |
| TC08001464.hg.1 | 2.26 | JUC08009649.hg.1 | STK3 |
| TC08001464.hg.1 | 2.14 | PSR08018987.hg.1 | STK3 |
| TC08001464.hg.1 | -2.54 | JUC08009648.hg.1 | STK3 |
| TC09000498.hg.1 | 4.17 | JUC09002987.hg.1 | GALNT12 |
| TC09000498.hg.1 | 2.21 | PSR09005401.hg.1 | GALNT12 |
| TC09000498.hg.1 | 2.06 | JUC09002991.hg.1 | GALNT12 |
| TC09000498.hg.1 | -2.2 | JUC09002985.hg.1 | GALNT12 |
| TC14000319.hg.1 | 4.17 | JUC14001642.hg.1 | SAMD4A |
| TC14000319.hg.1 | 2.57 | PSR14003381.hg.1 | SAMD4A |
| TC14000319.hg.1 | 2.1 | PSR14003389.hg.1 | SAMD4A |
| TC14000319.hg.1 | 2.01 | JUC14001633.hg.1 | SAMD4A |
| TC14000319.hg.1 | -2.06 | JUC14001639.hg.1 | SAMD4A |
| TC14000319.hg.1 | -2.09 | PSR14003390.hg.1 | SAMD4A |
| TC14000319.hg.1 | -3.46 | JUC14001637.hg.1 | SAMD4A |
| TC02002606.hg.1 | 4.16 | JUC02021745.hg.1 | TFPI |
| TC02002606.hg.1 | 3.36 | JUC02021728.hg.1 | TFPI |
| TC02002606.hg.1 | 3.23 | JUC02021730.hg.1 | TFPI |
| TC02002606.hg.1 | 2.41 | JUC02021731.hg.1 | TFPI |
| TC02002606.hg.1 | 2.38 | PSR02041713.hg.1 | TFPI |
| TC02002606.hg.1 | 2.35 | PSR02041727.hg.1 | TFPI |
| TC02002606.hg.1 | 2.07 | JUC02021736.hg.1 | TFPI |
| TC02002606.hg.1 | 2.05 | PSR02041739.hg.1 | TFPI |
| TC05001481.hg.1 | 4.16 | PSR05020318.hg.1 | ENC1 |
| TC05001481.hg.1 | 2.47 | PSR05020319.hg.1 | ENC1 |
| TC05001481.hg.1 | -2.79 | JUC05010456.hg.1 | ENC1 |
| TC06001074.hg.1 | 4.16 | JUC06006268.hg.1 | SASH1 |
| TC06001074.hg.1 | 3.45 | PSR06012705.hg.1 | SASH1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC06001074.hg.1 | 3.45 | PSR06012708.hg.1 | SASH1 |
| TC06001074.hg.1 | 3.15 | PSR06012697.hg.1 | SASH1 |
| TC06001074.hg.1 | 2.56 | PSR06012713.hg.1 | SASH1 |
| TC06001074.hg.1 | 2.44 | PSR06012698.hg.1 | SASH1 |
| TC0X000034.hg.1 | 4.16 | PSR0X000449.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 4.09 | JUC0X000261.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 4.03 | PSR0X000447.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 3.6 | PSR0X000453.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 3.51 | PSR0X000457.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 2.69 | JUC0X000258.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 2.63 | PSR0X000454.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 2.53 | JUC0X000254.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 2.22 | JUC0X000260.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | 2.09 | PSR0X000448.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | -2.22 | JUC0X000257.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | -2.45 | JUC0X000253.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | -2.79 | PSR0X000464.hg.1 | SHROOM2 |
| TC0X000034.hg.1 | -3.79 | PSR0X000451.hg.1 | SHROOM2 |
| TC11002435.hg.1 | 4.16 | JUC11015539.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 3.96 | JUC11015550.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 3.14 | JUC11015542.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 3.02 | PSR11029172.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2.84 | PSR11029160.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2.71 | PSR11029170.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2.7 | JUC11015544.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2.61 | PSR11029187.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2.3 | PSR11029182.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2.05 | JUC11015545.hg.1 | KIRREL3 |
| TC11002435.hg.1 | 2 | PSR11029188.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -2.13 | PSR11029167.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -2.33 | JUC11015540.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -2.43 | PSR11029183.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -3.19 | JUC11015543.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -4.96 | JUC11015551.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -5.54 | PSR11029166.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -7.91 | JUC11015546.hg.1 | KIRREL3 |
| TC11002435.hg.1 | -8.54 | JUC11015536.hg.1 | KIRREL3 |
| TC15001211.hg.1 | 4.16 | JUC15005753.hg.1 | MEIS2 |
| TC15001211.hg.1 | 4.01 | PSR15010899.hg.1 | MEIS2 |
| TC15001211.hg.1 | 3.82 | PSR15010874.hg.1 | MEIS2 |
| TC15001211.hg.1 | 3.6 | PSR15010886.hg.1 | MEIS2 |
| TC15001211.hg.1 | 3.57 | PSR15010897.hg.1 | MEIS2 |
| TC15001211.hg.1 | 3.5 | PSR15010884.hg.1 | MEIS2 |
| TC15001211.hg.1 | 3.33 | PSR15010857.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.99 | PSR15010893.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.72 | JUC15005751.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.67 | PSR15010853.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.63 | PSR15010894.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.59 | PSR15010892.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.44 | PSR15010860.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.36 | JUC15005750.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.22 | PSR15010873.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.19 | PSR15010887.hg.1 | MEIS2 |
| TC15001211.hg.1 | 2.18 | PSR15010881.hg.1 | MEIS2 |
| TC17001462.hg.1 | 4.16 | JUC17010973.hg.1 | TOP2A |
| TC17001462.hg.1 | 3.55 | JUC17010988.hg.1 | TOP2A |
| TC17001462.hg.1 | 3.54 | JUC17011011.hg.1 | TOP2A |
| TC17001462.hg.1 | 3.14 | PSR17019384.hg.1 | TOP2A |

| | | | |
|-----------------|-------|------------------|-------------|
| TC17001462.hg.1 | 3.13 | PSR17019405.hg.1 | TOP2A |
| TC17001462.hg.1 | 3.01 | JUC17010971.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.62 | PSR17019387.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.59 | JUC17011013.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.52 | PSR17019404.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.51 | PSR17019386.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.47 | PSR17019374.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.28 | JUC17010974.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.22 | PSR17019378.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.22 | PSR17019382.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.16 | PSR17019348.hg.1 | TOP2A |
| TC17001462.hg.1 | 2.13 | JUC17010979.hg.1 | TOP2A |
| TC17001462.hg.1 | -2.05 | JUC17010985.hg.1 | TOP2A |
| TC17001462.hg.1 | -2.15 | PSR17019364.hg.1 | TOP2A |
| TC17001462.hg.1 | -3.81 | JUC17011008.hg.1 | TOP2A |
| TC02000423.hg.1 | 4.15 | JUC02003228.hg.1 | ATP6V1B1 |
| TC02000423.hg.1 | 3.88 | JUC02003236.hg.1 | ATP6V1B1 |
| TC02000423.hg.1 | 2.85 | JUC02003224.hg.1 | ATP6V1B1 |
| TC02000423.hg.1 | 2.15 | PSR02006310.hg.1 | ATP6V1B1 |
| TC02000423.hg.1 | -6.26 | JUC02003237.hg.1 | ATP6V1B1 |
| TC11000267.hg.1 | 4.15 | JUC11001836.hg.1 | |
| TC11000267.hg.1 | 2.15 | PSR11003577.hg.1 | |
| TC02000874.hg.1 | 4.14 | JUC02006847.hg.1 | MGAT5 |
| TC02000874.hg.1 | 2.91 | PSR02012904.hg.1 | MGAT5 |
| TC02000874.hg.1 | 2.51 | PSR02012928.hg.1 | MGAT5 |
| TC02000874.hg.1 | -2.13 | JUC02006843.hg.1 | MGAT5 |
| TC02000874.hg.1 | -2.61 | JUC02006846.hg.1 | MGAT5 |
| TC16001281.hg.1 | 4.14 | PSR16017829.hg.1 | CHST6 |
| TC16001281.hg.1 | 3.07 | JUC16010157.hg.1 | CHST6 |
| TC16001281.hg.1 | 2.82 | PSR16017832.hg.1 | CHST6 |
| TC16001281.hg.1 | -2.08 | PSR16017828.hg.1 | CHST6 |
| TC16001281.hg.1 | -2.36 | PSR16017823.hg.1 | CHST6 |
| TC19001802.hg.1 | 4.14 | JUC19013900.hg.1 | ZNF83 |
| TC19001802.hg.1 | 3.47 | JUC19013911.hg.1 | ZNF83 |
| TC19001802.hg.1 | 2.24 | JUC19013913.hg.1 | ZNF83 |
| TC19001802.hg.1 | 2.18 | JUC19013904.hg.1 | ZNF83 |
| TC19001802.hg.1 | 2.13 | JUC19013906.hg.1 | ZNF83 |
| TC19001802.hg.1 | 2.06 | PSR19024462.hg.1 | ZNF83 |
| TC20000788.hg.1 | 4.14 | JUC20005528.hg.1 | GGT7 |
| TC20000788.hg.1 | 2.67 | PSR20010518.hg.1 | GGT7 |
| TC20000788.hg.1 | 2.18 | JUC20005516.hg.1 | GGT7 |
| TC20000788.hg.1 | 2.06 | JUC20005531.hg.1 | GGT7 |
| TC01003096.hg.1 | 4.13 | JUC01025749.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 3.65 | PSR01047962.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 3.56 | PSR01047965.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 3.31 | PSR01047967.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 3.27 | PSR01047963.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 2.77 | PSR01047968.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 2.73 | PSR01047961.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 2.66 | PSR01047969.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 2.52 | PSR01047966.hg.1 | PDE4DIP, LO |
| TC01003096.hg.1 | 2.37 | JUC01025801.hg.1 | PDE4DIP, LO |
| TC14001347.hg.1 | 4.13 | PSR14015326.hg.1 | ISM2 |
| TC14001347.hg.1 | -3.28 | JUC14007785.hg.1 | ISM2 |
| TC08001075.hg.1 | 4.12 | JUC08007033.hg.1 | PNMA2 |
| TC08001075.hg.1 | 2.43 | JUC08007041.hg.1 | PNMA2 |
| TC08001075.hg.1 | 2.03 | PSR08013692.hg.1 | PNMA2 |
| TC08001075.hg.1 | 2.02 | PSR08013690.hg.1 | PNMA2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC08001075.hg.1 | 2.02 | PSR08013697.hg.1 | PNMA2 |
| TC08001075.hg.1 | -2.04 | PSR08013672.hg.1 | PNMA2 |
| TC08001075.hg.1 | -2.28 | PSR08013666.hg.1 | PNMA2 |
| TC08001075.hg.1 | -2.39 | PSR08013663.hg.1 | PNMA2 |
| TC08001075.hg.1 | -2.41 | PSR08013664.hg.1 | PNMA2 |
| TC08001075.hg.1 | -2.58 | PSR08013667.hg.1 | PNMA2 |
| TC08001075.hg.1 | -3.05 | PSR08013661.hg.1 | PNMA2 |
| TC12001303.hg.1 | 4.12 | JUC12009420.hg.1 | KIAA0528 |
| TC12001303.hg.1 | 2.21 | JUC12009422.hg.1 | KIAA0528 |
| TC12001303.hg.1 | -2.27 | JUC12009402.hg.1 | KIAA0528 |
| TC12001303.hg.1 | -2.3 | PSR12017069.hg.1 | KIAA0528 |
| TC12001303.hg.1 | -3.46 | JUC12009411.hg.1 | KIAA0528 |
| TC19000377.hg.1 | 4.12 | JUC19003011.hg.1 | CILP2 |
| TC19000377.hg.1 | 3.18 | JUC19003010.hg.1 | CILP2 |
| TC19000377.hg.1 | 2.91 | PSR19005105.hg.1 | CILP2 |
| TC19000377.hg.1 | -2.02 | PSR19005098.hg.1 | CILP2 |
| TC19000377.hg.1 | -2.16 | JUC19003008.hg.1 | CILP2 |
| TC19000377.hg.1 | -2.27 | PSR19005097.hg.1 | CILP2 |
| TC19000377.hg.1 | -2.47 | PSR19005101.hg.1 | CILP2 |
| TC19000377.hg.1 | -3.47 | JUC19003007.hg.1 | CILP2 |
| TC19000377.hg.1 | -6.95 | JUC19003012.hg.1 | CILP2 |
| TC14002298.hg.1 | 4.11 | JUC14011690.hg.1 | SLC38A6 |
| TC14002298.hg.1 | 2.49 | JUC14011709.hg.1 | SLC38A6 |
| TC14002298.hg.1 | 2.4 | PSR14004049.hg.1 | SLC38A6 |
| TC14002298.hg.1 | 2.19 | PSR14004074.hg.1 | SLC38A6 |
| TC14002298.hg.1 | 2.11 | JUC14011712.hg.1 | SLC38A6 |
| TC14002298.hg.1 | 2.02 | JUC14011704.hg.1 | SLC38A6 |
| TC14002298.hg.1 | -2.12 | JUC14011714.hg.1 | SLC38A6 |
| TC14002298.hg.1 | -2.74 | JUC14011692.hg.1 | SLC38A6 |
| TC05001943.hg.1 | 4.1 | JUC05013706.hg.1 | DCTN4 |
| TC05001943.hg.1 | 3.72 | JUC05013705.hg.1 | DCTN4 |
| TC05001943.hg.1 | 2.55 | JUC05013715.hg.1 | DCTN4 |
| TC05001943.hg.1 | 2.13 | PSR05026956.hg.1 | DCTN4 |
| TC05001943.hg.1 | -2.58 | PSR05026949.hg.1 | DCTN4 |
| TC06000718.hg.1 | 4.1 | JUC06003873.hg.1 | SMAP1 |
| TC06000718.hg.1 | 2.95 | PSR06008567.hg.1 | SMAP1 |
| TC01006321.hg.1 | 4.09 | JUC01043959.hg.1 | CCDC30 |
| TC01006321.hg.1 | 2.89 | PSR01008283.hg.1 | CCDC30 |
| TC01006321.hg.1 | 2.66 | PSR01008317.hg.1 | CCDC30 |
| TC01006321.hg.1 | 2.14 | PSR01008270.hg.1 | CCDC30 |
| TC01006321.hg.1 | 2.03 | PSR01008295.hg.1 | CCDC30 |
| TC01006321.hg.1 | 2 | PSR01008258.hg.1 | CCDC30 |
| TC01006321.hg.1 | 2 | JUC01043961.hg.1 | CCDC30 |
| TC03000173.hg.1 | 4.09 | JUC03001699.hg.1 | STAC |
| TC03000173.hg.1 | -2.34 | JUC03001697.hg.1 | STAC |
| TC03000173.hg.1 | -3.19 | PSR03003243.hg.1 | STAC |
| TC0X001425.hg.1 | 4.09 | JUC0X009642.hg.1 | FGF13 |
| TC0X001425.hg.1 | 3.63 | JUC0X009644.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.4 | PSR0X018892.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.38 | JUC0X009653.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.3 | JUC0X009646.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.2 | PSR0X018888.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.2 | PSR0X018906.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.13 | PSR0X018915.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.05 | PSR0X018903.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.04 | JUC0X009638.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.03 | PSR0X018911.hg.1 | FGF13 |
| TC0X001425.hg.1 | 2.03 | JUC0X009651.hg.1 | FGF13 |

| | | | |
|-----------------|-------|------------------|------------|
| TC0X001425.hg.1 | -2.37 | JUC0X009654.hg.1 | FGF13 |
| TC11003504.hg.1 | 4.09 | JUC11019767.hg.1 | LOC1005062 |
| TC11003504.hg.1 | 3.42 | PSR11017247.hg.1 | LOC1005062 |
| TC11003504.hg.1 | 2.99 | JUC11019777.hg.1 | LOC1005062 |
| TC11003504.hg.1 | 2.45 | PSR11017227.hg.1 | LOC1005062 |
| TC11003504.hg.1 | 2.24 | PSR11017234.hg.1 | LOC1005062 |
| TC11003504.hg.1 | 2.07 | JUC11019772.hg.1 | LOC1005062 |
| TC12000621.hg.1 | 4.09 | JUC12004347.hg.1 | KCNMB4 |
| TC12000621.hg.1 | -2.33 | PSR12008256.hg.1 | KCNMB4 |
| TC12000621.hg.1 | -2.69 | PSR12008257.hg.1 | KCNMB4 |
| TC15002013.hg.1 | 4.09 | JUC15010201.hg.1 | TARSL2 |
| TC15002013.hg.1 | 3.82 | JUC15010192.hg.1 | TARSL2 |
| TC15002013.hg.1 | 2.4 | PSR15018695.hg.1 | TARSL2 |
| TC15002013.hg.1 | 2.06 | PSR15018706.hg.1 | TARSL2 |
| TC07000262.hg.1 | 4.08 | PSR07004027.hg.1 | HECW1-IT1 |
| TC07000262.hg.1 | -2.35 | PSR07004030.hg.1 | HECW1-IT1 |
| TC07000262.hg.1 | -2.66 | PSR07004029.hg.1 | HECW1-IT1 |
| TC07000262.hg.1 | -3.37 | JUC07001951.hg.1 | HECW1-IT1 |
| TC17001457.hg.1 | 4.08 | PSR17019277.hg.1 | MED24 |
| TC17001457.hg.1 | 2.69 | JUC17010938.hg.1 | MED24 |
| TC17001457.hg.1 | 2.36 | JUC17010951.hg.1 | MED24 |
| TC17001457.hg.1 | 2.14 | JUC17010943.hg.1 | MED24 |
| TC17001457.hg.1 | -2.38 | JUC17010913.hg.1 | MED24 |
| TC17001457.hg.1 | -2.38 | JUC17010940.hg.1 | MED24 |
| TC17001457.hg.1 | -2.39 | PSR17019247.hg.1 | MED24 |
| TC17001457.hg.1 | -2.78 | JUC17010936.hg.1 | MED24 |
| TC02000507.hg.1 | 4.07 | JUC02003985.hg.1 | ELMOD3 |
| TC02000507.hg.1 | -2.22 | JUC02003968.hg.1 | ELMOD3 |
| TC02000507.hg.1 | -2.27 | PSR02007781.hg.1 | ELMOD3 |
| TC02000507.hg.1 | -2.31 | JUC02003960.hg.1 | ELMOD3 |
| TC03000248.hg.1 | 4.07 | JUC03002576.hg.1 | LIMD1 |
| TC03000248.hg.1 | 3.92 | PSR03005047.hg.1 | LIMD1 |
| TC03000248.hg.1 | 3.61 | PSR03005062.hg.1 | LIMD1 |
| TC03000248.hg.1 | 3.1 | PSR03005049.hg.1 | LIMD1 |
| TC03000248.hg.1 | 3.07 | JUC03002573.hg.1 | LIMD1 |
| TC03000248.hg.1 | 2.88 | JUC03002575.hg.1 | LIMD1 |
| TC03000248.hg.1 | 2.72 | PSR03005052.hg.1 | LIMD1 |
| TC03000248.hg.1 | 2.65 | JUC03002567.hg.1 | LIMD1 |
| TC03000248.hg.1 | 2.49 | PSR03005051.hg.1 | LIMD1 |
| TC03000248.hg.1 | 2.32 | JUC03002570.hg.1 | LIMD1 |
| TC03000248.hg.1 | 2.24 | PSR03005058.hg.1 | LIMD1 |
| TC10001322.hg.1 | 4.07 | PSR10016707.hg.1 | TMEM26 |
| TC10001322.hg.1 | 3.28 | JUC10009752.hg.1 | TMEM26 |
| TC10001322.hg.1 | 3.2 | JUC10009754.hg.1 | TMEM26 |
| TC10001322.hg.1 | 2.85 | PSR10016712.hg.1 | TMEM26 |
| TC10001322.hg.1 | 2.66 | JUC10009755.hg.1 | TMEM26 |
| TC10001322.hg.1 | 2.18 | PSR10016711.hg.1 | TMEM26 |
| TC10001322.hg.1 | -2.38 | JUC10009750.hg.1 | TMEM26 |
| TC10001322.hg.1 | -3.35 | PSR10016705.hg.1 | TMEM26 |
| TC11002439.hg.1 | 4.07 | JUC11015566.hg.1 | ETS1 |
| TC11002439.hg.1 | 3.37 | JUC11015562.hg.1 | ETS1 |
| TC11002439.hg.1 | 3.08 | JUC11015568.hg.1 | ETS1 |
| TC11002439.hg.1 | 3.06 | PSR11029216.hg.1 | ETS1 |
| TC11002439.hg.1 | 2.51 | PSR11029212.hg.1 | ETS1 |
| TC11002439.hg.1 | 2.37 | PSR11029211.hg.1 | ETS1 |
| TC11002439.hg.1 | 2.15 | JUC11015561.hg.1 | ETS1 |
| TC15001711.hg.1 | 4.07 | JUC15009111.hg.1 | ADAMTS7, L |
| TC15001711.hg.1 | 2.47 | PSR15016723.hg.1 | ADAMTS7, L |

| | | | |
|-----------------|-------|------------------|-------------|
| TC15001711.hg.1 | 2.32 | JUC15009116.hg.1 | ADAMTS7, L0 |
| TC15001711.hg.1 | 2.25 | PSR15016716.hg.1 | ADAMTS7, L0 |
| TC15001711.hg.1 | 2.24 | PSR15016728.hg.1 | ADAMTS7, L0 |
| TC15001711.hg.1 | 2.14 | PSR15016725.hg.1 | ADAMTS7, L0 |
| TC15001711.hg.1 | -2.11 | JUC15009110.hg.1 | ADAMTS7, L0 |
| TC17002883.hg.1 | 4.07 | PSR17012340.hg.1 | SLC25A10 |
| TC17002883.hg.1 | 2.32 | PSR17012343.hg.1 | SLC25A10 |
| TC17002883.hg.1 | -2.3 | PSR17012337.hg.1 | SLC25A10 |
| TC17002883.hg.1 | -2.33 | JUC17018790.hg.1 | SLC25A10 |
| TC21000459.hg.1 | 4.07 | PSR21005370.hg.1 | BRWD1 |
| TC21000459.hg.1 | 3.22 | PSR21005362.hg.1 | BRWD1 |
| TC21000459.hg.1 | 2.98 | JUC21002773.hg.1 | BRWD1 |
| TC21000459.hg.1 | 2.15 | JUC21002768.hg.1 | BRWD1 |
| TC21000459.hg.1 | 2 | JUC21002797.hg.1 | BRWD1 |
| TC21000459.hg.1 | -2.21 | JUC21002753.hg.1 | BRWD1 |
| TC01003005.hg.1 | 4.06 | PSR01046740.hg.1 | RSBN1 |
| TC01003005.hg.1 | 2.36 | JUC01025083.hg.1 | RSBN1 |
| TC03003352.hg.1 | 4.06 | JUC03023683.hg.1 | RBM5 |
| TC03003352.hg.1 | 3.45 | PSR03006335.hg.1 | RBM5 |
| TC03003352.hg.1 | 3 | JUC03023676.hg.1 | RBM5 |
| TC03003352.hg.1 | 2.49 | PSR03006346.hg.1 | RBM5 |
| TC03003352.hg.1 | 2.27 | PSR03006332.hg.1 | RBM5 |
| TC03003352.hg.1 | -2.2 | PSR03006307.hg.1 | RBM5 |
| TC03003352.hg.1 | -2.25 | JUC03023685.hg.1 | RBM5 |
| TC11001273.hg.1 | 4.06 | PSR11016094.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 3.73 | PSR11016075.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 3.54 | JUC11008656.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 2.99 | PSR11016071.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 2.6 | JUC11008657.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 2.48 | PSR11016089.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 2.35 | JUC11008655.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 2.11 | PSR11016070.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | 2.05 | PSR11016088.hg.1 | MIR675, H19 |
| TC11001273.hg.1 | -2.18 | JUC11008660.hg.1 | MIR675, H19 |
| TC12000284.hg.1 | 4.06 | JUC12001714.hg.1 | TSPAN11 |
| TC12000284.hg.1 | 3.4 | JUC12001722.hg.1 | TSPAN11 |
| TC12000284.hg.1 | 2.64 | JUC12001715.hg.1 | TSPAN11 |
| TC12000284.hg.1 | 2.15 | JUC12001719.hg.1 | TSPAN11 |
| TC12000284.hg.1 | 2.05 | PSR12003403.hg.1 | TSPAN11 |
| TC12000284.hg.1 | -2.64 | JUC12001713.hg.1 | TSPAN11 |
| TC20000727.hg.1 | 4.06 | PSR20009824.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.15 | PSR20009839.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.15 | JUC20005122.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.21 | PSR20009840.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.34 | PSR20009848.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.57 | JUC20005127.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.59 | JUC20005141.hg.1 | ACSS1 |
| TC20000727.hg.1 | -2.75 | JUC20005135.hg.1 | ACSS1 |
| TC20000727.hg.1 | -3.06 | JUC20005125.hg.1 | ACSS1 |
| TC20000727.hg.1 | -3.73 | JUC20005124.hg.1 | ACSS1 |
| TC05000822.hg.1 | 4.05 | JUC05006125.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | 3.99 | PSR05011756.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | 3.77 | PSR05011757.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | 3.18 | PSR05011770.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | 3.1 | JUC05006127.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | 2.6 | JUC05006130.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | 2.56 | JUC05006129.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | -2.49 | PSR05011761.hg.1 | ARHGEF37 |

| | | | |
|-----------------|--------|------------------|------------|
| TC05000822.hg.1 | -3.08 | JUC05006133.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | -3.46 | JUC05006123.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | -3.5 | PSR05011760.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | -4.45 | PSR05011762.hg.1 | ARHGEF37 |
| TC05000822.hg.1 | -15.12 | JUC05006128.hg.1 | ARHGEF37 |
| TC05001327.hg.1 | 4.05 | JUC05009633.hg.1 | LOC1005066 |
| TC05001327.hg.1 | 3.56 | JUC05009632.hg.1 | LOC1005066 |
| TC05001327.hg.1 | 2.61 | JUC05009639.hg.1 | LOC1005066 |
| TC05001327.hg.1 | 2.44 | PSR05018740.hg.1 | LOC1005066 |
| TC05001327.hg.1 | 2.34 | PSR05018736.hg.1 | LOC1005066 |
| TC05001327.hg.1 | 2.3 | PSR05018735.hg.1 | LOC1005066 |
| TC05001327.hg.1 | 2.13 | PSR05018751.hg.1 | LOC1005066 |
| TC06001732.hg.1 | 4.05 | PSR06020721.hg.1 | TRERF1 |
| TC06001732.hg.1 | 2.82 | JUC06009835.hg.1 | TRERF1 |
| TC06001732.hg.1 | 2.78 | JUC06009820.hg.1 | TRERF1 |
| TC06001732.hg.1 | 2.24 | PSR06020697.hg.1 | TRERF1 |
| TC06001732.hg.1 | -2 | PSR06020715.hg.1 | TRERF1 |
| TC09001656.hg.1 | 4.05 | JUC09011327.hg.1 | FNBP1 |
| TC09001656.hg.1 | 2.58 | PSR09021088.hg.1 | FNBP1 |
| TC09001656.hg.1 | 2.49 | JUC09011329.hg.1 | FNBP1 |
| TC09001656.hg.1 | 2.44 | PSR09021116.hg.1 | FNBP1 |
| TC09001656.hg.1 | 2.39 | JUC09011324.hg.1 | FNBP1 |
| TC09001656.hg.1 | 2.22 | JUC09011319.hg.1 | FNBP1 |
| TC09001656.hg.1 | -2.4 | JUC09011321.hg.1 | FNBP1 |
| TC09001656.hg.1 | -2.42 | JUC09011328.hg.1 | FNBP1 |
| TC09001656.hg.1 | -2.62 | JUC09011317.hg.1 | FNBP1 |
| TC10001571.hg.1 | 4.05 | JUC10011722.hg.1 | SFRP5 |
| TC10001571.hg.1 | -3.2 | PSR10020146.hg.1 | SFRP5 |
| TC12000726.hg.1 | 4.05 | PSR12009221.hg.1 | SOCS2 |
| TC12000726.hg.1 | 3.42 | PSR12009219.hg.1 | SOCS2 |
| TC12000726.hg.1 | 3.42 | PSR12009230.hg.1 | SOCS2 |
| TC12000726.hg.1 | 3.15 | JUC12004969.hg.1 | SOCS2 |
| TC12000726.hg.1 | 3.02 | PSR12009231.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.96 | PSR12009224.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.96 | PSR12009228.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.88 | PSR12009218.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.79 | PSR12009222.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.55 | PSR12009229.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.46 | JUC12004973.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.42 | PSR12009226.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.21 | PSR12009220.hg.1 | SOCS2 |
| TC12000726.hg.1 | 2.02 | PSR12009244.hg.1 | SOCS2 |
| TC12000726.hg.1 | -2.02 | PSR12009232.hg.1 | SOCS2 |
| TC19000623.hg.1 | 4.05 | PSR19008634.hg.1 | IGSF23 |
| TC19000623.hg.1 | 3.18 | PSR19008635.hg.1 | IGSF23 |
| TC19000623.hg.1 | 2.8 | JUC19005156.hg.1 | IGSF23 |
| TC19000623.hg.1 | 2.77 | PSR19008636.hg.1 | IGSF23 |
| TC19000623.hg.1 | 2.16 | PSR19008639.hg.1 | IGSF23 |
| TC19000623.hg.1 | -2.16 | JUC19005152.hg.1 | IGSF23 |
| TC19000623.hg.1 | -2.18 | PSR19008644.hg.1 | IGSF23 |
| TC19000623.hg.1 | -4.07 | JUC19005157.hg.1 | IGSF23 |
| TC02001714.hg.1 | 4.04 | JUC02014479.hg.1 | XDH |
| TC02001714.hg.1 | 2.16 | PSR02027630.hg.1 | XDH |
| TC02001714.hg.1 | 2.1 | JUC02014455.hg.1 | XDH |
| TC02001714.hg.1 | -2.03 | JUC02014475.hg.1 | XDH |
| TC02002172.hg.1 | 4.04 | JUC02018252.hg.1 | RGPD3 |
| TC02002172.hg.1 | 2.14 | PSR02035341.hg.1 | RGPD3 |
| TC03000142.hg.1 | 4.04 | JUC03001391.hg.1 | ZCWPW2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC03000142.hg.1 | 2.8 | JUC03001388.hg.1 | ZCWPW2 |
| TC03000142.hg.1 | -5.32 | PSR03002616.hg.1 | ZCWPW2 |
| TC05000336.hg.1 | 4.04 | JUC05002465.hg.1 | MAP1B |
| TC05000336.hg.1 | -6.28 | PSR05004589.hg.1 | MAP1B |
| TC05000336.hg.1 | -6.65 | JUC05002459.hg.1 | MAP1B |
| TC05001837.hg.1 | 4.04 | JUC05012904.hg.1 | SIL1 |
| TC05001837.hg.1 | 2.66 | JUC05012901.hg.1 | SIL1 |
| TC05001837.hg.1 | 2.36 | JUC05012902.hg.1 | SIL1 |
| TC05001837.hg.1 | 2.07 | PSR05025132.hg.1 | SIL1 |
| TC07001283.hg.1 | 4.04 | JUC07009727.hg.1 | KIAA0895 |
| TC07001283.hg.1 | 2.44 | PSR07019958.hg.1 | KIAA0895 |
| TC07001283.hg.1 | 2.38 | PSR07019956.hg.1 | KIAA0895 |
| TC07001283.hg.1 | 2.33 | PSR07019954.hg.1 | KIAA0895 |
| TC07001283.hg.1 | 2.25 | PSR07019915.hg.1 | KIAA0895 |
| TC07001283.hg.1 | 2.14 | PSR07019919.hg.1 | KIAA0895 |
| TC07001283.hg.1 | 2.06 | PSR07019918.hg.1 | KIAA0895 |
| TC01003847.hg.1 | 4.02 | JUC01030775.hg.1 | DUSP10 |
| TC01003847.hg.1 | 3.23 | PSR01058741.hg.1 | DUSP10 |
| TC01003847.hg.1 | 3.12 | PSR01058740.hg.1 | DUSP10 |
| TC01003847.hg.1 | 2.72 | JUC01030777.hg.1 | DUSP10 |
| TC01003847.hg.1 | 2.21 | JUC01030782.hg.1 | DUSP10 |
| TC05000243.hg.1 | 4.02 | PSR05002987.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 3.37 | PSR05002994.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 2.89 | JUC05001672.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 2.52 | JUC05001663.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 2.35 | PSR05003002.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 2.22 | PSR05002995.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 2.18 | PSR05003006.hg.1 | MAP3K1 |
| TC05000243.hg.1 | 2.13 | PSR05002989.hg.1 | MAP3K1 |
| TC05000243.hg.1 | -2 | JUC05001669.hg.1 | MAP3K1 |
| TC05000243.hg.1 | -2.12 | JUC05001670.hg.1 | MAP3K1 |
| TC05000243.hg.1 | -2.38 | JUC05001676.hg.1 | MAP3K1 |
| TC05000243.hg.1 | -2.52 | JUC05001665.hg.1 | MAP3K1 |
| TC11003492.hg.1 | 4.02 | PSR11024707.hg.1 | STARD10 |
| TC11003492.hg.1 | 3.88 | PSR11024711.hg.1 | STARD10 |
| TC11003492.hg.1 | 3.73 | JUC11019669.hg.1 | STARD10 |
| TC11003492.hg.1 | 3.6 | PSR11024706.hg.1 | STARD10 |
| TC11003492.hg.1 | 2.61 | PSR11024708.hg.1 | STARD10 |
| TC11003492.hg.1 | 2.52 | PSR11024710.hg.1 | STARD10 |
| TC11003492.hg.1 | 2.34 | PSR11024709.hg.1 | STARD10 |
| TC12003293.hg.1 | 4.02 | JUC12020612.hg.1 | HOXC10 |
| TC12003293.hg.1 | 3.92 | JUC12020616.hg.1 | HOXC10 |
| TC12003293.hg.1 | 3.45 | JUC12020615.hg.1 | HOXC10 |
| TC12003293.hg.1 | 3.28 | PSR12005852.hg.1 | HOXC10 |
| TC12003293.hg.1 | 3.23 | PSR12005853.hg.1 | HOXC10 |
| TC12003293.hg.1 | 2.55 | PSR12005850.hg.1 | HOXC10 |
| TC12003293.hg.1 | 2.43 | PSR12005854.hg.1 | HOXC10 |
| TC12003293.hg.1 | 2.11 | PSR12005862.hg.1 | HOXC10 |
| TC12003293.hg.1 | -4.16 | JUC12020618.hg.1 | HOXC10 |
| TC20000271.hg.1 | 4.02 | JUC20002127.hg.1 | RPN2 |
| TC20000271.hg.1 | 2.5 | PSR20003818.hg.1 | RPN2 |
| TC20000271.hg.1 | -3.55 | JUC20002138.hg.1 | RPN2 |
| TC07000095.hg.1 | 4.01 | JUC07000693.hg.1 | SCIN |
| TC07000095.hg.1 | 3.56 | JUC07000700.hg.1 | SCIN |
| TC07000095.hg.1 | 2.95 | JUC07000686.hg.1 | SCIN |
| TC07000095.hg.1 | 2.86 | JUC07000704.hg.1 | SCIN |
| TC07000095.hg.1 | 2.76 | PSR07001546.hg.1 | SCIN |
| TC07000095.hg.1 | 2.48 | JUC07000703.hg.1 | SCIN |

| | | | |
|-----------------|-------|------------------|-----------|
| TC07000095.hg.1 | 2.41 | PSR07001545.hg.1 | SCIN |
| TC07000095.hg.1 | 2.41 | PSR07001549.hg.1 | SCIN |
| TC07000095.hg.1 | 2.37 | JUC07000683.hg.1 | SCIN |
| TC07000095.hg.1 | 2.21 | PSR07001551.hg.1 | SCIN |
| TC07000095.hg.1 | 2.08 | PSR07001562.hg.1 | SCIN |
| TC07000095.hg.1 | 2.07 | PSR07001553.hg.1 | SCIN |
| TC07000095.hg.1 | 2.02 | PSR07001580.hg.1 | SCIN |
| TC07000095.hg.1 | 2.01 | PSR07001550.hg.1 | SCIN |
| TC07000095.hg.1 | -2.23 | PSR07001582.hg.1 | SCIN |
| TC07000095.hg.1 | -2.27 | JUC07000699.hg.1 | SCIN |
| TC07000095.hg.1 | -2.51 | PSR07001583.hg.1 | SCIN |
| TC07000095.hg.1 | -3.34 | JUC07000702.hg.1 | SCIN |
| TC0X001401.hg.1 | 4.01 | JUC0X009533.hg.1 | LINC00087 |
| TC0X001401.hg.1 | -2.26 | PSR0X018659.hg.1 | LINC00087 |
| TC0X001401.hg.1 | -2.71 | PSR0X018654.hg.1 | LINC00087 |
| TC0X001401.hg.1 | -4.15 | PSR0X018655.hg.1 | LINC00087 |
| TC13000364.hg.1 | 4.01 | PSR13003896.hg.1 | ITGBL1 |
| TC13000364.hg.1 | 3.69 | PSR13003886.hg.1 | ITGBL1 |
| TC13000364.hg.1 | -2.17 | JUC13002402.hg.1 | ITGBL1 |
| TC13000364.hg.1 | -2.2 | JUC13002403.hg.1 | ITGBL1 |
| TC20000095.hg.1 | 4.01 | JUC20000683.hg.1 | NDUFAF5 |
| TC20000095.hg.1 | 3.07 | JUC20000667.hg.1 | NDUFAF5 |
| TC20000095.hg.1 | -2.03 | PSR20001298.hg.1 | NDUFAF5 |
| TC20000095.hg.1 | -2.9 | JUC20000679.hg.1 | NDUFAF5 |
| TC03001941.hg.1 | 4 | JUC03017192.hg.1 | VEPH1 |
| TC03001941.hg.1 | -2.01 | PSR03034731.hg.1 | VEPH1 |
| TC03001941.hg.1 | -2.03 | JUC03017188.hg.1 | VEPH1 |
| TC03001941.hg.1 | -2.13 | PSR03034749.hg.1 | VEPH1 |
| TC03001941.hg.1 | -2.23 | PSR03034732.hg.1 | VEPH1 |
| TC03001941.hg.1 | -2.29 | PSR03034733.hg.1 | VEPH1 |
| TC03001941.hg.1 | -2.85 | PSR03034755.hg.1 | VEPH1 |
| TC03001941.hg.1 | -3.69 | JUC03017183.hg.1 | VEPH1 |
| TC06000779.hg.1 | 4 | PSR06009312.hg.1 | NT5E |
| TC06000779.hg.1 | 3.05 | PSR06009326.hg.1 | NT5E |
| TC06000779.hg.1 | 2.72 | JUC06004360.hg.1 | NT5E |
| TC06000779.hg.1 | 2.33 | PSR06009327.hg.1 | NT5E |
| TC06000779.hg.1 | -2.03 | PSR06009319.hg.1 | NT5E |
| TC08000401.hg.1 | 4 | JUC08002773.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.58 | PSR08005614.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.54 | PSR08005600.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.43 | PSR08005595.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.36 | PSR08005616.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.34 | PSR08005590.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.27 | PSR08005612.hg.1 | FAM110B |
| TC08000401.hg.1 | 2.08 | PSR08005593.hg.1 | FAM110B |
| TC08000412.hg.1 | 4 | JUC08002857.hg.1 | CHD7 |
| TC08000412.hg.1 | 2.21 | PSR08005744.hg.1 | CHD7 |
| TC08000412.hg.1 | 2.19 | JUC08002869.hg.1 | CHD7 |
| TC08001191.hg.1 | 4 | PSR08015377.hg.1 | PRKDC |
| TC08001191.hg.1 | 2.49 | JUC08007912.hg.1 | PRKDC |
| TC08001191.hg.1 | -2 | JUC08007905.hg.1 | PRKDC |
| TC08001191.hg.1 | -2.02 | JUC08007862.hg.1 | PRKDC |
| TC08001191.hg.1 | -2.05 | JUC08007901.hg.1 | PRKDC |
| TC08001191.hg.1 | -2.5 | JUC08007843.hg.1 | PRKDC |
| TC08001191.hg.1 | -2.51 | JUC08007854.hg.1 | PRKDC |
| TC08001191.hg.1 | -2.59 | JUC08007876.hg.1 | PRKDC |
| TC08001191.hg.1 | -3.06 | JUC08007888.hg.1 | PRKDC |
| TC12000647.hg.1 | 4 | JUC12004516.hg.1 | |

| | | | |
|-----------------|-------|------------------|------------|
| TC12000647.hg.1 | 2.08 | PSR12008542.hg.1 | |
| TC12000647.hg.1 | -2.03 | PSR12008541.hg.1 | |
| TC16002036.hg.1 | 4 | JUC16013200.hg.1 | CLEC18A |
| TC16002036.hg.1 | 2.96 | JUC16013194.hg.1 | CLEC18A |
| TC16002036.hg.1 | 2.25 | PSR16008318.hg.1 | CLEC18A |
| TC16002036.hg.1 | -2.12 | PSR16008298.hg.1 | CLEC18A |
| TC19001282.hg.1 | 4 | PSR19018215.hg.1 | RAB3A |
| TC19001282.hg.1 | 3.7 | JUC19010633.hg.1 | RAB3A |
| TC19001282.hg.1 | 3.23 | PSR19018213.hg.1 | RAB3A |
| TC19001282.hg.1 | 3.13 | JUC19010636.hg.1 | RAB3A |
| TC19001282.hg.1 | 3.07 | JUC19010631.hg.1 | RAB3A |
| TC19001282.hg.1 | 3.01 | PSR19018216.hg.1 | RAB3A |
| TC19001282.hg.1 | 2.88 | PSR19018208.hg.1 | RAB3A |
| TC19001282.hg.1 | 2.26 | PSR19018206.hg.1 | RAB3A |
| TC19001282.hg.1 | -2.06 | JUC19010632.hg.1 | RAB3A |
| TC02002003.hg.1 | 3.99 | JUC02016660.hg.1 | C2orf65 |
| TC02002003.hg.1 | 2.43 | PSR02032209.hg.1 | C2orf65 |
| TC02002003.hg.1 | -2.49 | JUC02016654.hg.1 | C2orf65 |
| TC02002003.hg.1 | -2.95 | JUC02016657.hg.1 | C2orf65 |
| TC02002003.hg.1 | -4.05 | PSR02032200.hg.1 | C2orf65 |
| TC02002003.hg.1 | -4.15 | PSR02032202.hg.1 | C2orf65 |
| TC02002003.hg.1 | -5.09 | JUC02016643.hg.1 | C2orf65 |
| TC03001025.hg.1 | 3.99 | JUC03009217.hg.1 | SNORA81, E |
| TC03001025.hg.1 | 3.6 | PSR03018221.hg.1 | SNORA81, E |
| TC03001025.hg.1 | 3.16 | PSR03018168.hg.1 | SNORA81, E |
| TC03001025.hg.1 | 2.44 | PSR03018182.hg.1 | SNORA81, E |
| TC03001025.hg.1 | 2.05 | PSR03018154.hg.1 | SNORA81, E |
| TC03001025.hg.1 | 2.03 | PSR03018174.hg.1 | SNORA81, E |
| TC03001025.hg.1 | 2.03 | PSR03018226.hg.1 | SNORA81, E |
| TC04001120.hg.1 | 3.99 | JUC04008108.hg.1 | FLJ13197 |
| TC04001120.hg.1 | 2.04 | JUC04008115.hg.1 | FLJ13197 |
| TC04001120.hg.1 | -2.27 | PSR04015254.hg.1 | FLJ13197 |
| TC04001120.hg.1 | -2.8 | PSR04015258.hg.1 | FLJ13197 |
| TC15001191.hg.1 | 3.99 | JUC15005588.hg.1 | C15orf29 |
| TC15001191.hg.1 | 2.21 | JUC15005593.hg.1 | C15orf29 |
| TC15001191.hg.1 | -2.05 | PSR15010542.hg.1 | C15orf29 |
| TC18000127.hg.1 | 3.99 | JUC18000988.hg.1 | DSG3 |
| TC18000127.hg.1 | 2.08 | PSR18001432.hg.1 | DSG3 |
| TC20000824.hg.1 | 3.99 | JUC20005891.hg.1 | C20orf132 |
| TC20000824.hg.1 | 3.92 | JUC20005859.hg.1 | C20orf132 |
| TC20000824.hg.1 | 3.03 | JUC20005876.hg.1 | C20orf132 |
| TC20000824.hg.1 | 2.83 | JUC20005889.hg.1 | C20orf132 |
| TC20000824.hg.1 | 2.65 | JUC20005858.hg.1 | C20orf132 |
| TC20000824.hg.1 | 2.48 | PSR20011372.hg.1 | C20orf132 |
| TC20000824.hg.1 | 2.4 | PSR20011357.hg.1 | C20orf132 |
| TC20000824.hg.1 | 2.16 | JUC20005870.hg.1 | C20orf132 |
| TC20000824.hg.1 | -2.23 | JUC20005862.hg.1 | C20orf132 |
| TC20000824.hg.1 | -3.46 | JUC20005857.hg.1 | C20orf132 |
| TC02002148.hg.1 | 3.98 | JUC02018111.hg.1 | MFSD9 |
| TC02002148.hg.1 | 3.39 | JUC02018101.hg.1 | MFSD9 |
| TC02002148.hg.1 | 2.24 | PSR02035124.hg.1 | MFSD9 |
| TC02002148.hg.1 | 2.24 | JUC02018110.hg.1 | MFSD9 |
| TC02002148.hg.1 | -2.62 | JUC02018102.hg.1 | MFSD9 |
| TC10001020.hg.1 | 3.98 | JUC10007346.hg.1 | ITIH5 |
| TC10001020.hg.1 | 3.47 | PSR10012689.hg.1 | ITIH5 |
| TC10001020.hg.1 | 3.45 | JUC10007350.hg.1 | ITIH5 |
| TC10001020.hg.1 | 3.43 | PSR10012713.hg.1 | ITIH5 |
| TC10001020.hg.1 | 2.96 | JUC10007343.hg.1 | ITIH5 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10001020.hg.1 | 2.72 | PSR10012695.hg.1 | ITIH5 |
| TC10001020.hg.1 | -2.05 | PSR10012690.hg.1 | ITIH5 |
| TC10001020.hg.1 | -2.27 | PSR10012708.hg.1 | ITIH5 |
| TC10001020.hg.1 | -5.63 | JUC10007354.hg.1 | ITIH5 |
| TC15000858.hg.1 | 3.98 | PSR15007991.hg.1 | SEMA4B |
| TC15000858.hg.1 | 3.89 | PSR15007987.hg.1 | SEMA4B |
| TC15000858.hg.1 | 3.2 | JUC15004250.hg.1 | SEMA4B |
| TC15000858.hg.1 | 3.03 | JUC15004251.hg.1 | SEMA4B |
| TC15000858.hg.1 | 2.69 | PSR15007990.hg.1 | SEMA4B |
| TC15000858.hg.1 | 2.55 | JUC15004255.hg.1 | SEMA4B |
| TC15000858.hg.1 | 2.51 | JUC15004258.hg.1 | SEMA4B |
| TC15000858.hg.1 | 2.32 | PSR15007992.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.07 | JUC15004264.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.08 | PSR15008014.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.12 | PSR15007996.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.12 | PSR15008013.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.21 | JUC15004253.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.22 | JUC15004257.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.35 | JUC15004261.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.49 | JUC15004259.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.54 | JUC15004252.hg.1 | SEMA4B |
| TC15000858.hg.1 | -2.68 | PSR15007995.hg.1 | SEMA4B |
| TC15000858.hg.1 | -3.6 | JUC15004247.hg.1 | SEMA4B |
| TC15000858.hg.1 | -7.37 | PSR15007994.hg.1 | SEMA4B |
| TC02001333.hg.1 | 3.97 | JUC02011138.hg.1 | STK11IP |
| TC02001333.hg.1 | -2.06 | PSR02020899.hg.1 | STK11IP |
| TC02001333.hg.1 | -2.08 | JUC02011135.hg.1 | STK11IP |
| TC02001333.hg.1 | -3.04 | JUC02011111.hg.1 | STK11IP |
| TC03002088.hg.1 | 3.97 | JUC03018345.hg.1 | RFC4 |
| TC03002088.hg.1 | 3.37 | PSR03037099.hg.1 | RFC4 |
| TC11001948.hg.1 | 3.97 | PSR11023396.hg.1 | FOSL1 |
| TC11001948.hg.1 | 3.13 | PSR11023393.hg.1 | FOSL1 |
| TC11001948.hg.1 | 3.07 | PSR11023395.hg.1 | FOSL1 |
| TC11001948.hg.1 | 2.8 | JUC11012345.hg.1 | FOSL1 |
| TC11001948.hg.1 | -2.2 | PSR11023382.hg.1 | FOSL1 |
| TC14000393.hg.1 | 3.97 | JUC14002280.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 3.73 | JUC14002287.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.59 | JUC14002298.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.53 | PSR14004516.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.41 | PSR14004492.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.33 | PSR14004508.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.27 | PSR14004515.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.14 | PSR14004510.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.04 | PSR14004511.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | 2.03 | JUC14002297.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | -2.18 | PSR14004501.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | -2.31 | JUC14002283.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | -2.54 | PSR14004497.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | -2.59 | JUC14002289.hg.1 | PLEKHG3 |
| TC14000393.hg.1 | -2.63 | JUC14002281.hg.1 | PLEKHG3 |
| TC02002495.hg.1 | 3.96 | PSR02039454.hg.1 | TTC21B, LOC |
| TC02002495.hg.1 | 3.88 | JUC02020714.hg.1 | TTC21B, LOC |
| TC02002495.hg.1 | 2.34 | JUC02020718.hg.1 | TTC21B, LOC |
| TC02002495.hg.1 | -2.22 | JUC02020726.hg.1 | TTC21B, LOC |
| TC15000142.hg.1 | 3.96 | PSR15000881.hg.1 | |
| TC15000142.hg.1 | -2.27 | JUC15000299.hg.1 | |
| TC01002658.hg.1 | 3.95 | JUC01022286.hg.1 | ORC1 |
| TC01002658.hg.1 | -2.21 | PSR01041689.hg.1 | ORC1 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC03003399.hg.1 | 3.95 | JUC03024494.hg.1 | TRIM59 |
| TC03003399.hg.1 | -2.13 | PSR03034979.hg.1 | TRIM59 |
| TC03003399.hg.1 | -3.19 | PSR03034976.hg.1 | TRIM59 |
| TC03003399.hg.1 | -3.93 | JUC03024496.hg.1 | TRIM59 |
| TC05000218.hg.1 | 3.95 | JUC05001492.hg.1 | ITGA2 |
| TC05000218.hg.1 | 2.85 | PSR05002682.hg.1 | ITGA2 |
| TC05000218.hg.1 | 2.29 | JUC05001513.hg.1 | ITGA2 |
| TC05000218.hg.1 | 2.03 | PSR05002673.hg.1 | ITGA2 |
| TC05000218.hg.1 | -2.02 | JUC05001495.hg.1 | ITGA2 |
| TC06000621.hg.1 | 3.95 | JUC06003346.hg.1 | RUNX2 |
| TC06000621.hg.1 | 2.72 | PSR06007558.hg.1 | RUNX2 |
| TC06000621.hg.1 | 2.38 | PSR06007553.hg.1 | RUNX2 |
| TC06000621.hg.1 | 2.16 | PSR06007554.hg.1 | RUNX2 |
| TC06000621.hg.1 | 2.09 | PSR06007557.hg.1 | RUNX2 |
| TC06000621.hg.1 | -2.07 | JUC06003345.hg.1 | RUNX2 |
| TC0X002319.hg.1 | 3.95 | JUC0X013000.hg.1 | ARMCX5 |
| TC0X002319.hg.1 | -2.01 | PSR0X006450.hg.1 | ARMCX5 |
| TC12000386.hg.1 | 3.95 | JUC12002632.hg.1 | ASIC1 |
| TC12000386.hg.1 | 3.75 | JUC12002639.hg.1 | ASIC1 |
| TC12000386.hg.1 | 3.08 | PSR12004795.hg.1 | ASIC1 |
| TC12000386.hg.1 | 2.65 | PSR12004803.hg.1 | ASIC1 |
| TC12000386.hg.1 | 2.3 | JUC12002629.hg.1 | ASIC1 |
| TC12000386.hg.1 | 2.02 | PSR12004789.hg.1 | ASIC1 |
| TC12001566.hg.1 | 3.95 | JUC12011514.hg.1 | CBX5, MIR31 |
| TC12001566.hg.1 | 3.25 | PSR12020755.hg.1 | CBX5, MIR31 |
| TC12001566.hg.1 | 2.85 | JUC12011515.hg.1 | CBX5, MIR31 |
| TC12001566.hg.1 | 2.59 | JUC12011511.hg.1 | CBX5, MIR31 |
| TC12001566.hg.1 | -3.48 | JUC12011512.hg.1 | CBX5, MIR31 |
| TC21001057.hg.1 | 3.95 | JUC21005047.hg.1 | CRYZL1 |
| TC21001057.hg.1 | 2.45 | PSR21004837.hg.1 | CRYZL1 |
| TC21001057.hg.1 | 2.23 | JUC21005057.hg.1 | CRYZL1 |
| TC21001057.hg.1 | 2 | PSR21004782.hg.1 | CRYZL1 |
| TC6_qbl_hap60000 | 3.95 | JUC6_qbl_hap60003 | PSORS1C1 |
| TC6_qbl_hap60000 | 2.58 | JUC6_qbl_hap60003 | PSORS1C1 |
| TC6_qbl_hap60000 | 2.48 | JUC6_qbl_hap60003 | PSORS1C1 |
| TC6_qbl_hap60000 | 2.23 | PSR6_qbl_hap60008 | PSORS1C1 |
| TC6_qbl_hap60000 | -2.23 | PSR6_qbl_hap60008 | PSORS1C1 |
| TC01002171.hg.1 | 3.94 | JUC01017932.hg.1 | RERE |
| TC01002171.hg.1 | 2.83 | PSR01033455.hg.1 | RERE |
| TC01002171.hg.1 | 2.29 | JUC01017948.hg.1 | RERE |
| TC01002171.hg.1 | 2.08 | JUC01017940.hg.1 | RERE |
| TC01002171.hg.1 | 2 | JUC01017933.hg.1 | RERE |
| TC01002171.hg.1 | -2.32 | JUC01017959.hg.1 | RERE |
| TC01002171.hg.1 | -2.42 | JUC01017958.hg.1 | RERE |
| TC01002171.hg.1 | -2.48 | JUC01017943.hg.1 | RERE |
| TC01002171.hg.1 | -3.35 | JUC01017924.hg.1 | RERE |
| TC01002377.hg.1 | 3.94 | PSR01036653.hg.1 | RHCE |
| TC01002377.hg.1 | 3.65 | JUC01019731.hg.1 | RHCE |
| TC01002377.hg.1 | 3.18 | JUC01019746.hg.1 | RHCE |
| TC01002377.hg.1 | 3.14 | JUC01019738.hg.1 | RHCE |
| TC01002377.hg.1 | 3.03 | JUC01019742.hg.1 | RHCE |
| TC01002377.hg.1 | 2.52 | JUC01019743.hg.1 | RHCE |
| TC01002377.hg.1 | 2.3 | PSR01036638.hg.1 | RHCE |
| TC01002377.hg.1 | 2.26 | JUC01019729.hg.1 | RHCE |
| TC01002377.hg.1 | 2.18 | JUC01019747.hg.1 | RHCE |
| TC01002377.hg.1 | -2.16 | PSR01036632.hg.1 | RHCE |
| TC01002377.hg.1 | -2.36 | PSR01036635.hg.1 | RHCE |
| TC01002377.hg.1 | -3.19 | JUC01019730.hg.1 | RHCE |

| | | | |
|-----------------|-------|------------------|--------|
| TC01002377.hg.1 | -3.76 | PSR01036633.hg.1 | RHCE |
| TC02001645.hg.1 | 3.94 | JUC02013681.hg.1 | TP53I3 |
| TC02001645.hg.1 | 2.31 | PSR02026226.hg.1 | TP53I3 |
| TC02001645.hg.1 | -2.02 | PSR02026238.hg.1 | TP53I3 |
| TC02001645.hg.1 | -2.06 | PSR02026241.hg.1 | TP53I3 |
| TC02001645.hg.1 | -2.08 | PSR02026239.hg.1 | TP53I3 |
| TC02001645.hg.1 | -2.2 | PSR02026240.hg.1 | TP53I3 |
| TC02001645.hg.1 | -2.61 | PSR02026235.hg.1 | TP53I3 |
| TC03003380.hg.1 | 3.94 | JUC03024127.hg.1 | PFKFB4 |
| TC03003380.hg.1 | 2.39 | JUC03024135.hg.1 | PFKFB4 |
| TC03003380.hg.1 | 2.27 | PSR03024021.hg.1 | PFKFB4 |
| TC03003380.hg.1 | 2.21 | JUC03024136.hg.1 | PFKFB4 |
| TC03003380.hg.1 | 2.19 | JUC03024132.hg.1 | PFKFB4 |
| TC03003380.hg.1 | 2.02 | JUC03024131.hg.1 | PFKFB4 |
| TC03003380.hg.1 | -2.02 | JUC03024124.hg.1 | PFKFB4 |
| TC03003380.hg.1 | -2.75 | PSR03024007.hg.1 | PFKFB4 |
| TC05001797.hg.1 | 3.94 | PSR05024439.hg.1 | PITX1 |
| TC05001797.hg.1 | 3.01 | JUC05012561.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.92 | JUC05012563.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.44 | PSR05024452.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.26 | PSR05024453.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.25 | PSR05024456.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.2 | PSR05024460.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.07 | JUC05012558.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.04 | PSR05024454.hg.1 | PITX1 |
| TC05001797.hg.1 | 2.04 | JUC05012562.hg.1 | PITX1 |
| TC05001996.hg.1 | 3.94 | JUC05014162.hg.1 | RNF145 |
| TC05001996.hg.1 | 2.56 | PSR05027794.hg.1 | RNF145 |
| TC05001996.hg.1 | 2.52 | JUC05014161.hg.1 | RNF145 |
| TC05001996.hg.1 | 2.15 | JUC05014174.hg.1 | RNF145 |
| TC14000908.hg.1 | 3.94 | JUC14004978.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.9 | JUC14004988.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.85 | JUC14004989.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.84 | PSR14009854.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.8 | PSR14009844.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.8 | PSR14009845.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.78 | PSR14009846.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.54 | JUC14004994.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.51 | PSR14009812.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.12 | JUC14004997.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.09 | PSR14009807.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3.06 | JUC14004969.hg.1 | NDRG2 |
| TC14000908.hg.1 | 3 | JUC14004993.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.94 | PSR14009833.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.93 | PSR14009835.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.92 | JUC14004982.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.83 | JUC14004979.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.76 | PSR14009803.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.72 | PSR14009802.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.65 | PSR14009828.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.63 | PSR14009849.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.53 | PSR14009857.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.5 | PSR14009827.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.21 | JUC14004966.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.13 | JUC14004985.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.02 | PSR14009832.hg.1 | NDRG2 |
| TC14000908.hg.1 | 2.01 | JUC14004992.hg.1 | NDRG2 |
| TC14000908.hg.1 | -2.06 | JUC14004995.hg.1 | NDRG2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC14000908.hg.1 | -2.1 | JUC14004971.hg.1 | NDRG2 |
| TC14000908.hg.1 | -2.22 | JUC14004986.hg.1 | NDRG2 |
| TC14000908.hg.1 | -2.52 | JUC14004991.hg.1 | NDRG2 |
| TC14000908.hg.1 | -2.68 | PSR14009821.hg.1 | NDRG2 |
| TC14000908.hg.1 | -2.97 | PSR14009817.hg.1 | NDRG2 |
| TC14000908.hg.1 | -3.6 | JUC14004967.hg.1 | NDRG2 |
| TC14000908.hg.1 | -3.91 | PSR14009815.hg.1 | NDRG2 |
| TC14000908.hg.1 | -3.92 | JUC14004983.hg.1 | NDRG2 |
| TC14000908.hg.1 | -4.44 | PSR14009814.hg.1 | NDRG2 |
| TC14000908.hg.1 | -5.05 | JUC14004974.hg.1 | NDRG2 |
| TC14000908.hg.1 | -6.53 | JUC14004968.hg.1 | NDRG2 |
| TC15000162.hg.1 | 3.94 | JUC15000416.hg.1 | LOC653075, |
| TC15000162.hg.1 | -2.06 | PSR15001052.hg.1 | LOC653075, |
| TC17000103.hg.1 | 3.94 | PSR17001449.hg.1 | CD68 |
| TC17000103.hg.1 | 2.69 | JUC17000801.hg.1 | CD68 |
| TC22000801.hg.1 | 3.94 | JUC22005603.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.97 | JUC22005606.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.7 | PSR22013597.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.27 | JUC22005601.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.26 | PSR22013603.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.21 | PSR22013594.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.09 | PSR22013598.hg.1 | CBX7 |
| TC22000801.hg.1 | 2.02 | PSR22013607.hg.1 | CBX7 |
| TC02000074.hg.1 | 3.93 | PSR02000919.hg.1 | GREB1 |
| TC02000074.hg.1 | 2.05 | JUC02000517.hg.1 | GREB1 |
| TC02000074.hg.1 | -2.11 | JUC02000491.hg.1 | GREB1 |
| TC02000074.hg.1 | -2.52 | JUC02000485.hg.1 | GREB1 |
| TC06002090.hg.1 | 3.93 | PSR06026160.hg.1 | SOGA3, KIAA |
| TC06002090.hg.1 | 2.78 | JUC06012908.hg.1 | SOGA3, KIAA |
| TC06002090.hg.1 | 2.34 | PSR06026165.hg.1 | SOGA3, KIAA |
| TC06002090.hg.1 | 2.28 | PSR06026164.hg.1 | SOGA3, KIAA |
| TC06002090.hg.1 | 2.16 | PSR06026154.hg.1 | SOGA3, KIAA |
| TC12000096.hg.1 | 3.93 | PSR12001169.hg.1 | TPI1 |
| TC12000096.hg.1 | 3.43 | PSR12001184.hg.1 | TPI1 |
| TC12000096.hg.1 | 3.35 | JUC12000613.hg.1 | TPI1 |
| TC12000096.hg.1 | 3.1 | PSR12001189.hg.1 | TPI1 |
| TC03000444.hg.1 | 3.92 | JUC03004405.hg.1 | ROBO2 |
| TC03000444.hg.1 | 3.3 | PSR03008868.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.93 | JUC03004420.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.76 | PSR03008871.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.69 | PSR03008929.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.64 | JUC03004428.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.64 | JUC03004432.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.63 | JUC03004393.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.46 | JUC03004403.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.35 | PSR03008892.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.33 | JUC03004404.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.22 | PSR03008866.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.08 | PSR03008900.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.05 | PSR03008889.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.04 | JUC03004391.hg.1 | ROBO2 |
| TC03000444.hg.1 | 2.01 | PSR03008920.hg.1 | ROBO2 |
| TC03000444.hg.1 | -2.05 | JUC03004421.hg.1 | ROBO2 |
| TC03000444.hg.1 | -2.13 | PSR03008878.hg.1 | ROBO2 |
| TC03000444.hg.1 | -2.21 | PSR03008885.hg.1 | ROBO2 |
| TC03000444.hg.1 | -3.36 | JUC03004402.hg.1 | ROBO2 |
| TC03000444.hg.1 | -3.38 | PSR03008899.hg.1 | ROBO2 |
| TC03000444.hg.1 | -3.41 | JUC03004401.hg.1 | ROBO2 |

| | | | |
|-----------------|--------|------------------|--------|
| TC03000444.hg.1 | -3.45 | PSR03008880.hg.1 | ROBO2 |
| TC03000444.hg.1 | -4.13 | JUC03004419.hg.1 | ROBO2 |
| TC09000119.hg.1 | 3.92 | JUC09000723.hg.1 | IFT74 |
| TC09000119.hg.1 | 3.25 | JUC09000719.hg.1 | IFT74 |
| TC09000119.hg.1 | 2.55 | JUC09000729.hg.1 | IFT74 |
| TC09000119.hg.1 | 2.38 | JUC09000731.hg.1 | IFT74 |
| TC09000119.hg.1 | 2.28 | JUC09000740.hg.1 | IFT74 |
| TC09000119.hg.1 | 2.04 | PSR09001366.hg.1 | IFT74 |
| TC09000119.hg.1 | -3.5 | JUC09000743.hg.1 | IFT74 |
| TC09000119.hg.1 | -3.72 | PSR09001369.hg.1 | IFT74 |
| TC09002910.hg.1 | 3.92 | JUC09015952.hg.1 | PTGDS |
| TC09002910.hg.1 | 2.16 | JUC09015962.hg.1 | PTGDS |
| TC09002910.hg.1 | -2.6 | PSR09010918.hg.1 | PTGDS |
| TC09002910.hg.1 | -4.57 | PSR09010934.hg.1 | PTGDS |
| TC09002910.hg.1 | -4.6 | PSR09010931.hg.1 | PTGDS |
| TC09002910.hg.1 | -6.65 | PSR09010937.hg.1 | PTGDS |
| TC09002910.hg.1 | -7.67 | PSR09010926.hg.1 | PTGDS |
| TC09002910.hg.1 | -8.24 | PSR09010914.hg.1 | PTGDS |
| TC09002910.hg.1 | -10.11 | PSR09010921.hg.1 | PTGDS |
| TC09002910.hg.1 | -10.92 | PSR09010930.hg.1 | PTGDS |
| TC09002910.hg.1 | -11.92 | JUC09015957.hg.1 | PTGDS |
| TC09002910.hg.1 | -13.87 | PSR09010920.hg.1 | PTGDS |
| TC09002910.hg.1 | -14.98 | PSR09010912.hg.1 | PTGDS |
| TC09002910.hg.1 | -16.39 | PSR09010927.hg.1 | PTGDS |
| TC09002910.hg.1 | -18.59 | JUC09015961.hg.1 | PTGDS |
| TC19000191.hg.1 | 3.92 | JUC19001725.hg.1 | LDLR |
| TC19000191.hg.1 | 2.63 | JUC19001723.hg.1 | LDLR |
| TC19000191.hg.1 | 2.41 | JUC19001741.hg.1 | LDLR |
| TC19000191.hg.1 | 2.31 | JUC19001718.hg.1 | LDLR |
| TC19000191.hg.1 | 2.01 | PSR19002943.hg.1 | LDLR |
| TC19000191.hg.1 | -2.68 | PSR19002974.hg.1 | LDLR |
| TC22000265.hg.1 | 3.92 | JUC22001809.hg.1 | APOL1 |
| TC22000265.hg.1 | -2.04 | PSR22004921.hg.1 | APOL1 |
| TC22000265.hg.1 | -2.08 | PSR22004934.hg.1 | APOL1 |
| TC22000265.hg.1 | -2.6 | JUC22001794.hg.1 | APOL1 |
| TC22000265.hg.1 | -2.7 | PSR22004908.hg.1 | APOL1 |
| TC22000265.hg.1 | -2.8 | PSR22004924.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.1 | JUC22001807.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.19 | PSR22004919.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.21 | PSR22004920.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.28 | JUC22001804.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.3 | JUC22001812.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.35 | JUC22001800.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.74 | PSR22004943.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.79 | PSR22004925.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.82 | PSR22004926.hg.1 | APOL1 |
| TC22000265.hg.1 | -3.98 | PSR22004940.hg.1 | APOL1 |
| TC22000265.hg.1 | -4 | PSR22004937.hg.1 | APOL1 |
| TC22000265.hg.1 | -4.38 | JUC22001798.hg.1 | APOL1 |
| TC22000265.hg.1 | -4.43 | JUC22001803.hg.1 | APOL1 |
| TC22000265.hg.1 | -4.53 | JUC22001801.hg.1 | APOL1 |
| TC22000265.hg.1 | -5.42 | JUC22001796.hg.1 | APOL1 |
| TC22001423.hg.1 | 3.92 | JUC22008575.hg.1 | SFI1 |
| TC22001423.hg.1 | 2.91 | JUC22008522.hg.1 | SFI1 |
| TC22001423.hg.1 | 2.57 | JUC22008532.hg.1 | SFI1 |
| TC22001423.hg.1 | 2.23 | JUC22008524.hg.1 | SFI1 |
| TC22001423.hg.1 | 2.14 | PSR22004392.hg.1 | SFI1 |
| TC04000086.hg.1 | 3.91 | JUC04000830.hg.1 | SH3TC1 |

| | | | |
|-----------------|-------|------------------|---------|
| TC04000086.hg.1 | 2.42 | JUC04000866.hg.1 | SH3TC1 |
| TC04000086.hg.1 | 2.36 | PSR04001828.hg.1 | SH3TC1 |
| TC04000086.hg.1 | -2.23 | PSR04001848.hg.1 | SH3TC1 |
| TC04000086.hg.1 | -2.76 | JUC04000859.hg.1 | SH3TC1 |
| TC04000086.hg.1 | -2.9 | PSR04001799.hg.1 | SH3TC1 |
| TC04000086.hg.1 | -3.08 | JUC04000858.hg.1 | SH3TC1 |
| TC04000086.hg.1 | -4 | JUC04000838.hg.1 | SH3TC1 |
| TC04001700.hg.1 | 3.91 | JUC04012449.hg.1 | 1-Mar |
| TC04001700.hg.1 | 3.05 | JUC04012436.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.71 | PSR04023550.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.65 | JUC04012434.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.6 | PSR04023543.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.45 | PSR04023551.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.39 | JUC04012435.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.36 | JUC04012438.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.35 | PSR04023517.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.31 | PSR04023519.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.29 | PSR04023553.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.29 | JUC04012446.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.16 | JUC04012451.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.1 | PSR04023546.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.09 | JUC04012443.hg.1 | 1-Mar |
| TC04001700.hg.1 | 2.02 | PSR04023520.hg.1 | 1-Mar |
| TC04001700.hg.1 | -2.12 | JUC04012452.hg.1 | 1-Mar |
| TC04001700.hg.1 | -2.14 | PSR04023511.hg.1 | 1-Mar |
| TC04001700.hg.1 | -2.58 | PSR04023542.hg.1 | 1-Mar |
| TC04001700.hg.1 | -3.83 | JUC04012431.hg.1 | 1-Mar |
| TC04001700.hg.1 | -5.6 | PSR04023536.hg.1 | 1-Mar |
| TC02002668.hg.1 | 3.9 | JUC02022407.hg.1 | PPIL3 |
| TC02002668.hg.1 | -2.69 | PSR02042844.hg.1 | PPIL3 |
| TC03001312.hg.1 | 3.9 | JUC03011300.hg.1 | ULK4 |
| TC03001312.hg.1 | 3.64 | PSR03022546.hg.1 | ULK4 |
| TC03001312.hg.1 | 3.37 | PSR03022543.hg.1 | ULK4 |
| TC03001312.hg.1 | 2.79 | JUC03011286.hg.1 | ULK4 |
| TC03001312.hg.1 | 2.61 | JUC03011273.hg.1 | ULK4 |
| TC03001312.hg.1 | -2.18 | PSR03022563.hg.1 | ULK4 |
| TC03001312.hg.1 | -2.48 | JUC03011288.hg.1 | ULK4 |
| TC03001312.hg.1 | -2.53 | JUC03011294.hg.1 | ULK4 |
| TC03001312.hg.1 | -2.62 | PSR03022566.hg.1 | ULK4 |
| TC03001312.hg.1 | -2.87 | JUC03011274.hg.1 | ULK4 |
| TC03001312.hg.1 | -3.03 | JUC03011267.hg.1 | ULK4 |
| TC0X000393.hg.1 | 3.9 | PSR0X005382.hg.1 | NHSL2 |
| TC0X000393.hg.1 | 3.18 | JUC0X002668.hg.1 | NHSL2 |
| TC0X000393.hg.1 | 3.12 | PSR0X005385.hg.1 | NHSL2 |
| TC0X000393.hg.1 | -2.05 | JUC0X002663.hg.1 | NHSL2 |
| TC10000757.hg.1 | 3.9 | JUC10005006.hg.1 | TMEM180 |
| TC10000757.hg.1 | 3.36 | PSR10008985.hg.1 | TMEM180 |
| TC10000757.hg.1 | 3.14 | JUC10005015.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.91 | JUC10005008.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.73 | JUC10005011.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.49 | JUC10005013.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.48 | PSR10009011.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.17 | PSR10009001.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.15 | PSR10009009.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.11 | PSR10008982.hg.1 | TMEM180 |
| TC10000757.hg.1 | 2.07 | PSR10009005.hg.1 | TMEM180 |
| TC13000157.hg.1 | 3.9 | JUC13001136.hg.1 | DNAJC15 |
| TC13000157.hg.1 | 2.43 | PSR13001832.hg.1 | DNAJC15 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC15001641.hg.1 | 3.9 | JUC15008640.hg.1 | STRA6 |
| TC15001641.hg.1 | 2.94 | JUC15008628.hg.1 | STRA6 |
| TC15001641.hg.1 | 2.52 | JUC15008642.hg.1 | STRA6 |
| TC15001641.hg.1 | 2.04 | PSR15015937.hg.1 | STRA6 |
| TC16001266.hg.1 | 3.9 | JUC16010005.hg.1 | CLEC18B |
| TC16001266.hg.1 | 2.88 | JUC16010010.hg.1 | CLEC18B |
| TC16001266.hg.1 | -2.43 | PSR16017601.hg.1 | CLEC18B |
| TC16001266.hg.1 | -2.93 | PSR16017606.hg.1 | CLEC18B |
| TC20000732.hg.1 | 3.9 | JUC20005171.hg.1 | ABHD12 |
| TC20000732.hg.1 | 3.49 | JUC20005179.hg.1 | ABHD12 |
| TC20000732.hg.1 | 3.3 | JUC20005178.hg.1 | ABHD12 |
| TC20000732.hg.1 | 3.2 | PSR20009911.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2.5 | PSR20009898.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2.43 | PSR20009923.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2.39 | PSR20009914.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2.28 | JUC20005167.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2.04 | PSR20009909.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2 | PSR20009920.hg.1 | ABHD12 |
| TC20000732.hg.1 | 2 | JUC20005177.hg.1 | ABHD12 |
| TC20000732.hg.1 | -3.68 | JUC20005181.hg.1 | ABHD12 |
| TC01002657.hg.1 | 3.89 | JUC01022241.hg.1 | CC2D1B |
| TC01002657.hg.1 | 2.44 | PSR01041634.hg.1 | CC2D1B |
| TC01002657.hg.1 | 2.36 | PSR01041625.hg.1 | CC2D1B |
| TC01002657.hg.1 | 2.19 | JUC01022255.hg.1 | CC2D1B |
| TC01002657.hg.1 | 2.09 | PSR01041619.hg.1 | CC2D1B |
| TC01002657.hg.1 | 2.06 | JUC01022274.hg.1 | CC2D1B |
| TC01002657.hg.1 | -2.68 | JUC01022264.hg.1 | CC2D1B |
| TC07000477.hg.1 | 3.89 | JUC07003234.hg.1 | POR, MIR465 |
| TC07000477.hg.1 | 2.93 | JUC07003237.hg.1 | POR, MIR465 |
| TC07000477.hg.1 | 2.8 | PSR07006635.hg.1 | POR, MIR465 |
| TC07000477.hg.1 | 2.06 | PSR07006646.hg.1 | POR, MIR465 |
| TC19001689.hg.1 | 3.89 | JUC19013153.hg.1 | CA11 |
| TC19001689.hg.1 | -2.01 | PSR19023048.hg.1 | CA11 |
| TC19001689.hg.1 | -2.21 | JUC19013155.hg.1 | CA11 |
| TC02001653.hg.1 | 3.88 | PSR02026387.hg.1 | ADCY3 |
| TC02001653.hg.1 | 3.66 | PSR02026405.hg.1 | ADCY3 |
| TC02001653.hg.1 | 3.28 | PSR02026406.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.83 | PSR02026356.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.58 | JUC02013770.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.48 | PSR02026376.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.44 | JUC02013762.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.42 | PSR02026357.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.28 | PSR02026397.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.21 | PSR02026384.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.16 | JUC02013771.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.15 | PSR02026394.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.12 | JUC02013774.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.11 | PSR02026393.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.09 | PSR02026360.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.08 | PSR02026400.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.04 | JUC02013784.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.04 | JUC02013785.hg.1 | ADCY3 |
| TC02001653.hg.1 | 2.02 | JUC02013753.hg.1 | ADCY3 |
| TC02001653.hg.1 | -2.05 | JUC02013780.hg.1 | ADCY3 |
| TC02001653.hg.1 | -2.39 | JUC02013786.hg.1 | ADCY3 |
| TC06000389.hg.1 | 3.88 | JUC06001675.hg.1 | SKIV2L |
| TC06000389.hg.1 | 2.06 | PSR06004160.hg.1 | SKIV2L |
| TC06000389.hg.1 | -2.59 | JUC06001678.hg.1 | SKIV2L |

| | | | |
|-----------------|-------|------------------|-------------|
| TC07000443.hg.1 | 3.88 | JUC07002831.hg.1 | WBSCR22 |
| TC07000443.hg.1 | 2.47 | PSR07005918.hg.1 | WBSCR22 |
| TC07000443.hg.1 | 2.08 | JUC07002842.hg.1 | WBSCR22 |
| TC07000443.hg.1 | -2 | JUC07002847.hg.1 | WBSCR22 |
| TC09001508.hg.1 | 3.88 | PSR09018920.hg.1 | AKNA |
| TC09001508.hg.1 | 3.33 | JUC09010213.hg.1 | AKNA |
| TC09001508.hg.1 | 2.16 | PSR09018890.hg.1 | AKNA |
| TC09001508.hg.1 | -2.16 | JUC09010231.hg.1 | AKNA |
| TC16002056.hg.1 | 3.88 | JUC16013475.hg.1 | NFATC3 |
| TC16002056.hg.1 | 2.54 | PSR16007940.hg.1 | NFATC3 |
| TC16002056.hg.1 | 2.41 | PSR16007946.hg.1 | NFATC3 |
| TC16002056.hg.1 | 2.06 | PSR16007939.hg.1 | NFATC3 |
| TC17001700.hg.1 | 3.88 | JUC17012691.hg.1 | SPAG9 |
| TC17001700.hg.1 | 3.86 | PSR17022875.hg.1 | SPAG9 |
| TC17001700.hg.1 | 2.81 | PSR17022874.hg.1 | SPAG9 |
| TC17001700.hg.1 | 2.69 | JUC17012709.hg.1 | SPAG9 |
| TC17001700.hg.1 | -2.02 | JUC17012674.hg.1 | SPAG9 |
| TC19001501.hg.1 | 3.88 | JUC19011732.hg.1 | MAP4K1 |
| TC19001501.hg.1 | 2.03 | PSR19020399.hg.1 | MAP4K1 |
| TC01000271.hg.1 | 3.87 | JUC01002233.hg.1 | NBPF3, LOC |
| TC01000271.hg.1 | 2.5 | PSR01004180.hg.1 | NBPF3, LOC |
| TC01000271.hg.1 | 2.15 | JUC01002241.hg.1 | NBPF3, LOC |
| TC01000271.hg.1 | -3.16 | JUC01002236.hg.1 | NBPF3, LOC |
| TC02001447.hg.1 | 3.87 | JUC02012183.hg.1 | RAMP1 |
| TC02001447.hg.1 | 2.1 | PSR02023202.hg.1 | RAMP1 |
| TC02001447.hg.1 | 2.07 | PSR02023205.hg.1 | RAMP1 |
| TC02001447.hg.1 | -2.02 | JUC02012181.hg.1 | RAMP1 |
| TC02001447.hg.1 | -2.42 | PSR02023198.hg.1 | RAMP1 |
| TC02001447.hg.1 | -2.61 | PSR02023204.hg.1 | RAMP1 |
| TC02001447.hg.1 | -2.63 | JUC02012180.hg.1 | RAMP1 |
| TC02001891.hg.1 | 3.87 | JUC02015921.hg.1 | USP34 |
| TC02001891.hg.1 | 3.01 | PSR02030123.hg.1 | USP34 |
| TC02001891.hg.1 | -2.18 | JUC02015854.hg.1 | USP34 |
| TC03001625.hg.1 | 3.87 | JUC03014490.hg.1 | LOC1003026 |
| TC03001625.hg.1 | 3.38 | PSR03029335.hg.1 | LOC1003026 |
| TC03001625.hg.1 | 2.79 | JUC03014492.hg.1 | LOC1003026 |
| TC03001625.hg.1 | 2.75 | JUC03014485.hg.1 | LOC1003026 |
| TC03001625.hg.1 | 2.59 | JUC03014493.hg.1 | LOC1003026 |
| TC03003344.hg.1 | 3.87 | JUC03023552.hg.1 | TTLL3 |
| TC03003344.hg.1 | 2.26 | JUC03023558.hg.1 | TTLL3 |
| TC03003344.hg.1 | 2.16 | JUC03023548.hg.1 | TTLL3 |
| TC03003344.hg.1 | 2.05 | JUC03023568.hg.1 | TTLL3 |
| TC03003344.hg.1 | -2.02 | PSR03000946.hg.1 | TTLL3 |
| TC05001151.hg.1 | 3.87 | JUC05008405.hg.1 | SEMA5A |
| TC05001151.hg.1 | 2.83 | JUC05008408.hg.1 | SEMA5A |
| TC05001151.hg.1 | 2.29 | JUC05008396.hg.1 | SEMA5A |
| TC05001151.hg.1 | 2.24 | PSR05016506.hg.1 | SEMA5A |
| TC05001151.hg.1 | 2.08 | PSR05016503.hg.1 | SEMA5A |
| TC05001151.hg.1 | -2.57 | PSR05016509.hg.1 | SEMA5A |
| TC05001151.hg.1 | -2.61 | JUC05008393.hg.1 | SEMA5A |
| TC05001151.hg.1 | -2.74 | JUC05008394.hg.1 | SEMA5A |
| TC05001151.hg.1 | -2.96 | PSR05016513.hg.1 | SEMA5A |
| TC08000844.hg.1 | 3.87 | JUC08005787.hg.1 | HEATR7A, LC |
| TC08000844.hg.1 | 2.06 | JUC08005804.hg.1 | HEATR7A, LC |
| TC08000844.hg.1 | 2.05 | PSR08011179.hg.1 | HEATR7A, LC |
| TC08000844.hg.1 | -2.38 | JUC08005760.hg.1 | HEATR7A, LC |
| TC08000844.hg.1 | -2.74 | JUC08005801.hg.1 | HEATR7A, LC |
| TC10001128.hg.1 | 3.87 | JUC10008181.hg.1 | ACBD5 |

| | | | |
|-----------------|-------|------------------|----------|
| TC10001128.hg.1 | 2.45 | PSR10014167.hg.1 | ACBD5 |
| TC10001128.hg.1 | 2.1 | PSR10014161.hg.1 | ACBD5 |
| TC10001128.hg.1 | 2.05 | PSR10014164.hg.1 | ACBD5 |
| TC10001128.hg.1 | -2.06 | JUC10008180.hg.1 | ACBD5 |
| TC10001128.hg.1 | -2.71 | JUC10008179.hg.1 | ACBD5 |
| TC22000259.hg.1 | 3.87 | PSR22004814.hg.1 | HMOX1 |
| TC22000259.hg.1 | 3.35 | PSR22004815.hg.1 | HMOX1 |
| TC22000259.hg.1 | 3.24 | PSR22004819.hg.1 | HMOX1 |
| TC22000259.hg.1 | 3.17 | PSR22004813.hg.1 | HMOX1 |
| TC22000259.hg.1 | 3.02 | JUC22001748.hg.1 | HMOX1 |
| TC22000259.hg.1 | 2.32 | JUC22001751.hg.1 | HMOX1 |
| TC03002155.hg.1 | 3.86 | JUC03018904.hg.1 | TFRC |
| TC03002155.hg.1 | 3.22 | PSR03038060.hg.1 | TFRC |
| TC03002155.hg.1 | 3.18 | JUC03018894.hg.1 | TFRC |
| TC03002155.hg.1 | 2.65 | JUC03018903.hg.1 | TFRC |
| TC03002155.hg.1 | 2.44 | PSR03038082.hg.1 | TFRC |
| TC03002155.hg.1 | 2.33 | PSR03038104.hg.1 | TFRC |
| TC03002155.hg.1 | 2.01 | PSR03038105.hg.1 | TFRC |
| TC03002155.hg.1 | -2.34 | JUC03018910.hg.1 | TFRC |
| TC03002155.hg.1 | -2.43 | JUC03018913.hg.1 | TFRC |
| TC05000311.hg.1 | 3.86 | JUC05002275.hg.1 | |
| TC05000311.hg.1 | 2.62 | PSR05004194.hg.1 | |
| TC09000790.hg.1 | 3.86 | JUC09005678.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.8 | PSR09010273.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.8 | PSR09010274.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.43 | PSR09010278.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.37 | PSR09010269.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.23 | PSR09010276.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.16 | PSR09010271.hg.1 | OLFM1 |
| TC09000790.hg.1 | 3.02 | PSR09010268.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.78 | PSR09010290.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.72 | PSR09010277.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.38 | PSR09010279.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.3 | PSR09010272.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.28 | JUC09005673.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.24 | JUC09005679.hg.1 | OLFM1 |
| TC09000790.hg.1 | 2.15 | JUC09005675.hg.1 | OLFM1 |
| TC09000790.hg.1 | -2.23 | JUC09005676.hg.1 | OLFM1 |
| TC09000790.hg.1 | -2.43 | PSR09010281.hg.1 | OLFM1 |
| TC09000790.hg.1 | -4.6 | JUC09005672.hg.1 | OLFM1 |
| TC6_cox_hap2000 | 3.86 | JUC6_cox_hap2000 | PSORS1C1 |
| TC6_cox_hap2000 | 2.52 | JUC6_cox_hap2000 | PSORS1C1 |
| TC6_cox_hap2000 | 2.42 | JUC6_cox_hap2000 | PSORS1C1 |
| TC6_cox_hap2000 | 2.17 | PSR6_cox_hap2000 | PSORS1C1 |
| TC03002027.hg.1 | 3.85 | JUC03017795.hg.1 | |
| TC03002027.hg.1 | -6.21 | PSR03035991.hg.1 | |
| TC09000964.hg.1 | 3.85 | PSR09012770.hg.1 | CDKN2A |
| TC09000964.hg.1 | 3.63 | JUC09006947.hg.1 | CDKN2A |
| TC01000515.hg.1 | 3.84 | JUC01004193.hg.1 | NFYC |
| TC01000515.hg.1 | 2.58 | JUC01004215.hg.1 | NFYC |
| TC01000515.hg.1 | -2.13 | PSR01008063.hg.1 | NFYC |
| TC01000515.hg.1 | -2.66 | JUC01004201.hg.1 | NFYC |
| TC01000515.hg.1 | -2.7 | JUC01004200.hg.1 | NFYC |
| TC01000515.hg.1 | -3.13 | JUC01004212.hg.1 | NFYC |
| TC01006331.hg.1 | 3.84 | JUC01044116.hg.1 | ADAM15 |
| TC01006331.hg.1 | 3.2 | JUC01044128.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.9 | PSR01019847.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.63 | JUC01044138.hg.1 | ADAM15 |

| | | | |
|-----------------|-------|------------------|---------|
| TC01006331.hg.1 | 2.46 | PSR01019857.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.34 | PSR01019837.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.31 | PSR01019810.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.16 | PSR01019856.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.08 | PSR01019852.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.04 | PSR01019851.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.04 | PSR01019853.hg.1 | ADAM15 |
| TC01006331.hg.1 | 2.03 | PSR01019808.hg.1 | ADAM15 |
| TC02000213.hg.1 | 3.84 | JUC02001567.hg.1 | BIRC6 |
| TC02000213.hg.1 | 2.13 | PSR02003127.hg.1 | BIRC6 |
| TC02000213.hg.1 | -2.44 | JUC02001606.hg.1 | BIRC6 |
| TC02000213.hg.1 | -2.58 | JUC02001573.hg.1 | BIRC6 |
| TC0Y000354.hg.1 | 3.84 | PSR0Y000815.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | 2.89 | PSR0Y000816.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | 2.78 | PSR0Y000812.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | -2.49 | PSR0Y000808.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | -2.54 | JUC0Y001909.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | -2.62 | PSR0Y000818.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | -2.74 | PSR0Y000817.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | -2.76 | PSR0Y000810.hg.1 | TXLNG2P |
| TC0Y000354.hg.1 | -3.5 | PSR0Y000819.hg.1 | TXLNG2P |
| TC10000406.hg.1 | 3.84 | JUC10002609.hg.1 | TET1 |
| TC10000406.hg.1 | 2.1 | PSR10004528.hg.1 | TET1 |
| TC10000406.hg.1 | 2.02 | JUC10002615.hg.1 | TET1 |
| TC10000406.hg.1 | -2.64 | JUC10002614.hg.1 | TET1 |
| TC10000406.hg.1 | -2.71 | JUC10002607.hg.1 | TET1 |
| TC10002960.hg.1 | 3.84 | JUC10017491.hg.1 | |
| TC10002960.hg.1 | -2.2 | PSR10013673.hg.1 | |
| TC11000023.hg.1 | 3.84 | JUC11000191.hg.1 | DRD4 |
| TC11000023.hg.1 | 2.06 | PSR11000333.hg.1 | DRD4 |
| TC11000023.hg.1 | -2.18 | JUC11000189.hg.1 | DRD4 |
| TC11000023.hg.1 | -2.2 | JUC11000188.hg.1 | DRD4 |
| TC11000023.hg.1 | -2.69 | PSR11000332.hg.1 | DRD4 |
| TC12001361.hg.1 | 3.84 | JUC12009892.hg.1 | FAM60A |
| TC12001361.hg.1 | 2.23 | JUC12009888.hg.1 | FAM60A |
| TC12001361.hg.1 | -2.06 | PSR12017806.hg.1 | FAM60A |
| TC12001361.hg.1 | -3.13 | PSR12017793.hg.1 | FAM60A |
| TC18000006.hg.1 | 3.84 | JUC18000042.hg.1 | TYMS |
| TC18000006.hg.1 | 3.69 | PSR18000068.hg.1 | TYMS |
| TC18000006.hg.1 | 3.06 | PSR18000052.hg.1 | TYMS |
| TC18000006.hg.1 | 2.29 | JUC18000036.hg.1 | TYMS |
| TC18000006.hg.1 | 2.24 | PSR18000056.hg.1 | TYMS |
| TC18000006.hg.1 | 2.17 | PSR18000055.hg.1 | TYMS |
| TC18000006.hg.1 | 2.08 | JUC18000044.hg.1 | TYMS |
| TC18000006.hg.1 | -2.14 | JUC18000038.hg.1 | TYMS |
| TC18000006.hg.1 | -2.15 | JUC18000035.hg.1 | TYMS |
| TC19000462.hg.1 | 3.84 | JUC19003600.hg.1 | LSR |
| TC19000462.hg.1 | -2.14 | PSR19006074.hg.1 | LSR |
| TC20000657.hg.1 | 3.84 | JUC20004823.hg.1 | RRBP1 |
| TC20000657.hg.1 | 2.21 | PSR20009201.hg.1 | RRBP1 |
| TC20000657.hg.1 | -2.39 | JUC20004806.hg.1 | RRBP1 |
| TC01001741.hg.1 | 3.83 | JUC01014699.hg.1 | CD46 |
| TC01001741.hg.1 | 2.29 | JUC01014704.hg.1 | CD46 |
| TC01001741.hg.1 | -2.31 | JUC01014685.hg.1 | CD46 |
| TC01001741.hg.1 | -2.33 | PSR01027294.hg.1 | CD46 |
| TC01001741.hg.1 | -2.82 | PSR01027301.hg.1 | CD46 |
| TC01002520.hg.1 | 3.83 | JUC01021044.hg.1 | RSPO1 |
| TC01002520.hg.1 | -2.54 | PSR01039171.hg.1 | RSPO1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC12000392.hg.1 | 3.83 | JUC12002694.hg.1 | LARP4 |
| TC12000392.hg.1 | 2.57 | PSR12004897.hg.1 | LARP4 |
| TC12000392.hg.1 | 2.33 | PSR12004896.hg.1 | LARP4 |
| TC12000392.hg.1 | 2.13 | JUC12002702.hg.1 | LARP4 |
| TC12000392.hg.1 | 2.11 | JUC12002708.hg.1 | LARP4 |
| TC19000493.hg.1 | 3.83 | JUC19003885.hg.1 | WDR62 |
| TC19000493.hg.1 | -2.06 | PSR19006553.hg.1 | WDR62 |
| TC19000493.hg.1 | -2.82 | JUC19003854.hg.1 | WDR62 |
| TC01001328.hg.1 | 3.82 | JUC01011089.hg.1 | NTRK1 |
| TC01001328.hg.1 | 3.48 | JUC01011097.hg.1 | NTRK1 |
| TC01001328.hg.1 | 2.13 | PSR01020860.hg.1 | NTRK1 |
| TC02000758.hg.1 | 3.82 | JUC02006324.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 3.21 | JUC02006310.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 3 | PSR02011884.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.76 | JUC02006307.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.28 | JUC02006300.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.18 | PSR02011881.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.12 | PSR02011913.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.11 | PSR02011906.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.1 | PSR02011910.hg.1 | EPB41L5 |
| TC02000758.hg.1 | 2.01 | PSR02011892.hg.1 | EPB41L5 |
| TC02000758.hg.1 | -2.2 | JUC02006303.hg.1 | EPB41L5 |
| TC02000758.hg.1 | -2.73 | JUC02006302.hg.1 | EPB41L5 |
| TC02002229.hg.1 | 3.82 | JUC02018722.hg.1 | SLC35F5 |
| TC02002229.hg.1 | -2.42 | PSR02036191.hg.1 | SLC35F5 |
| TC04001486.hg.1 | 3.82 | PSR04021054.hg.1 | CAMK2D |
| TC04001486.hg.1 | -2.18 | PSR04021040.hg.1 | CAMK2D |
| TC04001486.hg.1 | -2.3 | JUC04011063.hg.1 | CAMK2D |
| TC04001486.hg.1 | -3.27 | JUC04011054.hg.1 | CAMK2D |
| TC05002151.hg.1 | 3.82 | JUC05015396.hg.1 | MGAT1 |
| TC05002151.hg.1 | 3.07 | JUC05015402.hg.1 | MGAT1 |
| TC05002151.hg.1 | 2.31 | PSR05030325.hg.1 | MGAT1 |
| TC06000357.hg.1 | 3.82 | JUC06001442.hg.1 | PSORS1C1 |
| TC06000357.hg.1 | 2.49 | JUC06001451.hg.1 | PSORS1C1 |
| TC06000357.hg.1 | 2.39 | JUC06001444.hg.1 | PSORS1C1 |
| TC06000357.hg.1 | 2.15 | PSR06003414.hg.1 | PSORS1C1 |
| TC19001505.hg.1 | 3.82 | JUC19011791.hg.1 | LGALS4 |
| TC19001505.hg.1 | -4.16 | PSR19020448.hg.1 | LGALS4 |
| TC22000437.hg.1 | 3.82 | JUC22003262.hg.1 | RPL23AP82, |
| TC22000437.hg.1 | 2.86 | JUC22003257.hg.1 | RPL23AP82, |
| TC22000437.hg.1 | 2.02 | JUC22003258.hg.1 | RPL23AP82, |
| TC22000437.hg.1 | -2.2 | PSR22008262.hg.1 | RPL23AP82, |
| TC22000437.hg.1 | -2.32 | PSR22008266.hg.1 | RPL23AP82, |
| TC6_dbb_hap3000 | 3.82 | JUC6_dbb_hap3000 | PSORS1C1 |
| TC6_dbb_hap3000 | 2.49 | JUC6_dbb_hap3000 | PSORS1C1 |
| TC6_dbb_hap3000 | 2.39 | JUC6_dbb_hap3000 | PSORS1C1 |
| TC6_dbb_hap3000 | 2.15 | PSR6_dbb_hap3000 | PSORS1C1 |
| TC04000881.hg.1 | 3.81 | JUC04006475.hg.1 | ODZ3 |
| TC04000881.hg.1 | 3.27 | JUC04006470.hg.1 | ODZ3 |
| TC04000881.hg.1 | 2.31 | PSR04012031.hg.1 | ODZ3 |
| TC04000881.hg.1 | 2.14 | PSR04012033.hg.1 | ODZ3 |
| TC05000782.hg.1 | 3.81 | JUC05005797.hg.1 | ARHGAP26 |
| TC05000782.hg.1 | 2.46 | PSR05011154.hg.1 | ARHGAP26 |
| TC05000782.hg.1 | 2.46 | JUC05005763.hg.1 | ARHGAP26 |
| TC05000782.hg.1 | 2.09 | JUC05005766.hg.1 | ARHGAP26 |
| TC05000782.hg.1 | -2.38 | JUC05005764.hg.1 | ARHGAP26 |
| TC11001377.hg.1 | 3.81 | PSR11017328.hg.1 | LOC283299 |
| TC11001377.hg.1 | -2.13 | PSR11017327.hg.1 | LOC283299 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC11001377.hg.1 | -2.95 | JUC11009228.hg.1 | LOC283299 |
| TC05000682.hg.1 | 3.8 | PSR05009481.hg.1 | TGFBI, LOC1 |
| TC05000682.hg.1 | 3.44 | JUC05005063.hg.1 | TGFBI, LOC1 |
| TC05000682.hg.1 | 2.11 | PSR05009482.hg.1 | TGFBI, LOC1 |
| TC05000682.hg.1 | 2.11 | JUC05005064.hg.1 | TGFBI, LOC1 |
| TC05000682.hg.1 | 2.07 | JUC05005055.hg.1 | TGFBI, LOC1 |
| TC05000682.hg.1 | -2.42 | JUC05005044.hg.1 | TGFBI, LOC1 |
| TC05003423.hg.1 | 3.8 | JUC05019564.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | 3.11 | JUC05019563.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | 2.55 | PSR05017533.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | 2.47 | JUC05019568.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -2.48 | PSR05017544.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -3.7 | PSR05017540.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -6.5 | PSR05017536.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -6.54 | PSR05017532.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -7.12 | PSR05017523.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -7.8 | PSR05017537.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -7.92 | PSR05017547.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -10.11 | PSR05017521.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -12.39 | PSR05017535.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -13.01 | PSR05017551.hg.1 | C1QTNF3 |
| TC05003423.hg.1 | -13.38 | PSR05017550.hg.1 | C1QTNF3 |
| TC18000413.hg.1 | 3.8 | PSR18004218.hg.1 | NPC1 |
| TC18000413.hg.1 | -2 | JUC18002819.hg.1 | NPC1 |
| TC18000552.hg.1 | 3.8 | JUC18003872.hg.1 | PIGN |
| TC18000552.hg.1 | 2.64 | PSR18005756.hg.1 | PIGN |
| TC18000552.hg.1 | 2.44 | JUC18003858.hg.1 | PIGN |
| TC18000552.hg.1 | -2.48 | PSR18005731.hg.1 | PIGN |
| TC18000552.hg.1 | -2.55 | JUC18003869.hg.1 | PIGN |
| TC21000543.hg.1 | 3.8 | PSR21006542.hg.1 | POFUT2 |
| TC21000543.hg.1 | 3.28 | PSR21006526.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.28 | PSR21006532.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.26 | PSR21006538.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.26 | JUC21003353.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.25 | PSR21006529.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.21 | PSR21006544.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.1 | PSR21006541.hg.1 | POFUT2 |
| TC21000543.hg.1 | 2.04 | PSR21006531.hg.1 | POFUT2 |
| TC04000524.hg.1 | 3.79 | PSR04007728.hg.1 | BANK1 |
| TC04000524.hg.1 | 2.73 | PSR04007731.hg.1 | BANK1 |
| TC04000524.hg.1 | 2.68 | JUC04004022.hg.1 | BANK1 |
| TC04000524.hg.1 | -2.59 | JUC04004018.hg.1 | BANK1 |
| TC06001184.hg.1 | 3.79 | JUC06006974.hg.1 | MLLT4 |
| TC06001184.hg.1 | 3.49 | JUC06006990.hg.1 | MLLT4 |
| TC06001184.hg.1 | 2.48 | PSR06014165.hg.1 | MLLT4 |
| TC06001184.hg.1 | 2.39 | JUC06006978.hg.1 | MLLT4 |
| TC06001184.hg.1 | 2.29 | JUC06007015.hg.1 | MLLT4 |
| TC06001184.hg.1 | 2.28 | JUC06007008.hg.1 | MLLT4 |
| TC07001811.hg.1 | 3.79 | JUC07013802.hg.1 | AASS |
| TC07001811.hg.1 | 2.97 | JUC07013776.hg.1 | AASS |
| TC07001811.hg.1 | 2.44 | JUC07013783.hg.1 | AASS |
| TC07001811.hg.1 | 2.33 | PSR07028026.hg.1 | AASS |
| TC11002380.hg.1 | 3.79 | JUC11015299.hg.1 | MIR100HG |
| TC11002380.hg.1 | 2.76 | JUC11015311.hg.1 | MIR100HG |
| TC11002380.hg.1 | 2.54 | PSR11028663.hg.1 | MIR100HG |
| TC11002380.hg.1 | 2.08 | PSR11028662.hg.1 | MIR100HG |
| TC11002380.hg.1 | 2.06 | PSR11028665.hg.1 | MIR100HG |
| TC11002380.hg.1 | -2.11 | PSR11028678.hg.1 | MIR100HG |

| | | | |
|-----------------|-------|------------------|------------|
| TC11002380.hg.1 | -2.57 | PSR11028677.hg.1 | MIR100HG |
| TC11002380.hg.1 | -2.87 | JUC11015301.hg.1 | MIR100HG |
| TC11002380.hg.1 | -2.95 | JUC11015308.hg.1 | MIR100HG |
| TC11002380.hg.1 | -3.15 | JUC11015309.hg.1 | MIR100HG |
| TC11002380.hg.1 | -3.4 | JUC11015304.hg.1 | MIR100HG |
| TC11002380.hg.1 | -4.3 | PSR11028676.hg.1 | MIR100HG |
| TC11002380.hg.1 | -5.02 | PSR11028674.hg.1 | MIR100HG |
| TC13000566.hg.1 | 3.79 | JUC13003762.hg.1 | SPG20 |
| TC13000566.hg.1 | -2.1 | PSR13006420.hg.1 | SPG20 |
| TC13000566.hg.1 | -2.29 | PSR13006436.hg.1 | SPG20 |
| TC13000895.hg.1 | 3.79 | JUC13005898.hg.1 | DCUN1D2 |
| TC13000895.hg.1 | 2.95 | JUC13005897.hg.1 | DCUN1D2 |
| TC13000895.hg.1 | 2.64 | JUC13005904.hg.1 | DCUN1D2 |
| TC13000895.hg.1 | 2.59 | PSR13010039.hg.1 | DCUN1D2 |
| TC14000668.hg.1 | 3.79 | PSR14008055.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | 2.68 | PSR14008052.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | 2.56 | PSR14008057.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | 2.47 | JUC14004113.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | 2.3 | JUC14004098.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | -2.11 | JUC14004108.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | -2.39 | JUC14004109.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | -3.39 | JUC14004097.hg.1 | SNORD113-4 |
| TC14000668.hg.1 | -3.76 | JUC14004118.hg.1 | SNORD113-4 |
| TC15000350.hg.1 | 3.79 | PSR15003144.hg.1 | SORD |
| TC15000350.hg.1 | 2.13 | JUC15001473.hg.1 | SORD |
| TC15000350.hg.1 | -2.12 | JUC15001465.hg.1 | SORD |
| TC15000350.hg.1 | -2.67 | JUC15001474.hg.1 | SORD |
| TC01000561.hg.1 | 3.78 | PSR01009260.hg.1 | RNF220 |
| TC01000561.hg.1 | 3.17 | PSR01009264.hg.1 | RNF220 |
| TC01000561.hg.1 | 3.15 | JUC01004795.hg.1 | RNF220 |
| TC01000561.hg.1 | 3.1 | PSR01009266.hg.1 | RNF220 |
| TC01000561.hg.1 | 2.3 | PSR01009258.hg.1 | RNF220 |
| TC01000561.hg.1 | -2.97 | JUC01004808.hg.1 | RNF220 |
| TC05000010.hg.1 | 3.78 | JUC05000144.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.83 | PSR05000277.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.7 | PSR05000251.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.47 | JUC05000145.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.37 | PSR05000259.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.28 | JUC05000141.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.13 | JUC05000134.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.08 | PSR05000275.hg.1 | TRIP13 |
| TC05000010.hg.1 | 2.01 | PSR05000252.hg.1 | TRIP13 |
| TC05000010.hg.1 | -2.07 | JUC05000146.hg.1 | TRIP13 |
| TC05000391.hg.1 | 3.78 | JUC05002984.hg.1 | PAPD4 |
| TC05000391.hg.1 | 3.42 | PSR05005489.hg.1 | PAPD4 |
| TC05000391.hg.1 | 2.63 | JUC05002993.hg.1 | PAPD4 |
| TC05000391.hg.1 | 2.36 | JUC05002983.hg.1 | PAPD4 |
| TC05000391.hg.1 | -4.02 | JUC05002973.hg.1 | PAPD4 |
| TC08000293.hg.1 | 3.78 | PSR08004085.hg.1 | TACC1 |
| TC08000293.hg.1 | 2.65 | JUC08002023.hg.1 | TACC1 |
| TC08000293.hg.1 | -2.09 | PSR08004135.hg.1 | TACC1 |
| TC08000293.hg.1 | -3.09 | JUC08002025.hg.1 | TACC1 |
| TC10001411.hg.1 | 3.78 | JUC10010416.hg.1 | USP54 |
| TC10001411.hg.1 | 3.63 | JUC10010413.hg.1 | USP54 |
| TC10001411.hg.1 | 2.63 | PSR10017839.hg.1 | USP54 |
| TC10001411.hg.1 | 2.31 | PSR10017828.hg.1 | USP54 |
| TC10001411.hg.1 | 2.29 | JUC10010411.hg.1 | USP54 |
| TC10001411.hg.1 | 2.22 | JUC10010388.hg.1 | USP54 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC10001411.hg.1 | 2.08 | PSR10017857.hg.1 | USP54 |
| TC10001411.hg.1 | 2.08 | PSR10017881.hg.1 | USP54 |
| TC10001411.hg.1 | 2.01 | PSR10017880.hg.1 | USP54 |
| TC10001411.hg.1 | -2.01 | JUC10010403.hg.1 | USP54 |
| TC10001411.hg.1 | -2.06 | JUC10010414.hg.1 | USP54 |
| TC10001411.hg.1 | -2.13 | PSR10017871.hg.1 | USP54 |
| TC10001411.hg.1 | -2.33 | PSR10017849.hg.1 | USP54 |
| TC10001411.hg.1 | -3.93 | JUC10010417.hg.1 | USP54 |
| TC14000524.hg.1 | 3.78 | PSR14006522.hg.1 | LOC283587 |
| TC14000524.hg.1 | 2.72 | JUC14003286.hg.1 | LOC283587 |
| TC14000524.hg.1 | 2.49 | PSR14006512.hg.1 | LOC283587 |
| TC14000524.hg.1 | 2.06 | PSR14006515.hg.1 | LOC283587 |
| TC15000881.hg.1 | 3.78 | JUC15004528.hg.1 | SLCO3A1 |
| TC15000881.hg.1 | 2.51 | PSR15008488.hg.1 | SLCO3A1 |
| TC15000881.hg.1 | 2.12 | PSR15008477.hg.1 | SLCO3A1 |
| TC02001977.hg.1 | 3.77 | JUC02016429.hg.1 | EXOC6B |
| TC02001977.hg.1 | 2.27 | PSR02031500.hg.1 | EXOC6B |
| TC02001977.hg.1 | 2.05 | PSR02031479.hg.1 | EXOC6B |
| TC03001772.hg.1 | 3.77 | JUC03015982.hg.1 | PLXND1 |
| TC03001772.hg.1 | 3.35 | PSR03032127.hg.1 | PLXND1 |
| TC03001772.hg.1 | 3.35 | JUC03015963.hg.1 | PLXND1 |
| TC03001772.hg.1 | 3.24 | JUC03015970.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.98 | JUC03015978.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.96 | PSR03032151.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.9 | JUC03015959.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.62 | PSR03032148.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.57 | PSR03032159.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.5 | JUC03015985.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.44 | JUC03015975.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.36 | PSR03032129.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.34 | PSR03032140.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.32 | PSR03032166.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.31 | PSR03032167.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.26 | PSR03032158.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.23 | PSR03032142.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.19 | PSR03032156.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.18 | PSR03032131.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.18 | JUC03015960.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.17 | JUC03015972.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.13 | PSR03032147.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.12 | PSR03032154.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.1 | PSR03032145.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.08 | PSR03032128.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.08 | JUC03015966.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.07 | JUC03015990.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.06 | JUC03015973.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.05 | PSR03032134.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.05 | PSR03032165.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.04 | JUC03015981.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.04 | JUC03015996.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.03 | PSR03032155.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.03 | PSR03032171.hg.1 | PLXND1 |
| TC03001772.hg.1 | 2.01 | JUC03015964.hg.1 | PLXND1 |
| TC05000135.hg.1 | 3.77 | JUC05000777.hg.1 | PDZD2 |
| TC05000135.hg.1 | 2.8 | JUC05000773.hg.1 | PDZD2 |
| TC05000135.hg.1 | 2.65 | JUC05000766.hg.1 | PDZD2 |
| TC05000135.hg.1 | 2.13 | PSR05001368.hg.1 | PDZD2 |
| TC05000135.hg.1 | 2.11 | PSR05001371.hg.1 | PDZD2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC05000135.hg.1 | -2.07 | JUC05000745.hg.1 | PDZD2 |
| TC05000135.hg.1 | -2.34 | JUC05000764.hg.1 | PDZD2 |
| TC05000135.hg.1 | -2.51 | PSR05001325.hg.1 | PDZD2 |
| TC05000135.hg.1 | -2.7 | JUC05000770.hg.1 | PDZD2 |
| TC05000135.hg.1 | -2.72 | JUC05000758.hg.1 | PDZD2 |
| TC05000135.hg.1 | -7.59 | JUC05000782.hg.1 | PDZD2 |
| TC06002122.hg.1 | 3.77 | JUC06013209.hg.1 | SLC18B1 |
| TC06002122.hg.1 | -2.1 | PSR06026633.hg.1 | SLC18B1 |
| TC11001387.hg.1 | 3.77 | JUC11009289.hg.1 | TRIM66 |
| TC11001387.hg.1 | 2.99 | JUC11009311.hg.1 | TRIM66 |
| TC11001387.hg.1 | 2.08 | PSR11017465.hg.1 | TRIM66 |
| TC11001387.hg.1 | -2.97 | JUC11009297.hg.1 | TRIM66 |
| TC11001444.hg.1 | 3.77 | PSR11018099.hg.1 | CYP2R1 |
| TC11001444.hg.1 | 2.41 | PSR11018116.hg.1 | CYP2R1 |
| TC11001444.hg.1 | 2.05 | JUC11009661.hg.1 | CYP2R1 |
| TC11001444.hg.1 | -3.05 | JUC11009664.hg.1 | CYP2R1 |
| TC16000338.hg.1 | 3.77 | PSR16004840.hg.1 | ALDOA |
| TC16000338.hg.1 | 3.7 | JUC16002686.hg.1 | ALDOA |
| TC16000338.hg.1 | 3.25 | PSR16004848.hg.1 | ALDOA |
| TC16000338.hg.1 | 3.14 | JUC16002685.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.6 | PSR16004844.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.37 | JUC16002699.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.29 | PSR16004856.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.23 | JUC16002680.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.21 | JUC16002696.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.08 | PSR16004852.hg.1 | ALDOA |
| TC16000338.hg.1 | 2.02 | PSR16004858.hg.1 | ALDOA |
| TC16000461.hg.1 | 3.77 | JUC16003605.hg.1 | GNAO1 |
| TC16000461.hg.1 | 3.32 | JUC16003612.hg.1 | GNAO1 |
| TC16000461.hg.1 | 2.74 | PSR16006423.hg.1 | GNAO1 |
| TC16000461.hg.1 | 2 | PSR16006408.hg.1 | GNAO1 |
| TC16000461.hg.1 | -2.12 | JUC16003615.hg.1 | GNAO1 |
| TC16000461.hg.1 | -2.17 | JUC16003609.hg.1 | GNAO1 |
| TC01002697.hg.1 | 3.76 | PSR01042290.hg.1 | USP24 |
| TC01002697.hg.1 | 2.89 | JUC01022634.hg.1 | USP24 |
| TC01002697.hg.1 | -2.13 | JUC01022630.hg.1 | USP24 |
| TC01002697.hg.1 | -2.4 | JUC01022612.hg.1 | USP24 |
| TC01002697.hg.1 | -3.07 | JUC01022624.hg.1 | USP24 |
| TC07001007.hg.1 | 3.76 | JUC07007429.hg.1 | TMEM176A |
| TC07001007.hg.1 | 2.79 | JUC07007427.hg.1 | TMEM176A |
| TC07001007.hg.1 | 2.02 | PSR07015346.hg.1 | TMEM176A |
| TC08001701.hg.1 | 3.76 | PSR08022402.hg.1 | LOC1002881 |
| TC08001701.hg.1 | -3.14 | JUC08011517.hg.1 | LOC1002881 |
| TC09001100.hg.1 | 3.76 | JUC09007871.hg.1 | ZNF658, LOC |
| TC09001100.hg.1 | 2.01 | PSR09014663.hg.1 | ZNF658, LOC |
| TC09001100.hg.1 | -2.57 | PSR09014661.hg.1 | ZNF658, LOC |
| TC11000256.hg.1 | 3.76 | JUC11001714.hg.1 | HTATIP2 |
| TC11000256.hg.1 | -2.15 | PSR11003405.hg.1 | HTATIP2 |
| TC11000256.hg.1 | -2.57 | PSR11003403.hg.1 | HTATIP2 |
| TC17000480.hg.1 | 3.76 | JUC17003229.hg.1 | ERBB2, MIR4 |
| TC17000480.hg.1 | -2.16 | PSR17005664.hg.1 | ERBB2, MIR4 |
| TC17000480.hg.1 | -3.21 | JUC17003212.hg.1 | ERBB2, MIR4 |
| TC17001376.hg.1 | 3.76 | JUC17010288.hg.1 | MMP28 |
| TC17001376.hg.1 | 2.58 | PSR17018248.hg.1 | MMP28 |
| TC17001376.hg.1 | 2.16 | JUC17010289.hg.1 | MMP28 |
| TC17001376.hg.1 | -2.06 | JUC17010294.hg.1 | MMP28 |
| TC17001376.hg.1 | -2.07 | PSR17018231.hg.1 | MMP28 |
| TC19000787.hg.1 | 3.76 | JUC19006490.hg.1 | LINC00085 |

| | | | |
|-----------------|-------|------------------|------------|
| TC19000787.hg.1 | -2.15 | PSR19011044.hg.1 | LINC00085 |
| TC6_mann_hap400 | 3.76 | JUC6_mann_hap400 | PSORS1C1 |
| TC6_mann_hap400 | 2.45 | JUC6_mann_hap400 | PSORS1C1 |
| TC6_mann_hap400 | 2.36 | JUC6_mann_hap400 | PSORS1C1 |
| TC6_mann_hap400 | 2.11 | PSR6_mann_hap400 | PSORS1C1 |
| TC6_mcf_hap5000 | 3.76 | JUC6_mcf_hap5000 | PSORS1C1 |
| TC6_mcf_hap5000 | 2.45 | JUC6_mcf_hap5000 | PSORS1C1 |
| TC6_mcf_hap5000 | 2.36 | JUC6_mcf_hap5000 | PSORS1C1 |
| TC6_mcf_hap5000 | 2.11 | PSR6_mcf_hap5000 | PSORS1C1 |
| TC01000454.hg.1 | 3.75 | JUC01003614.hg.1 | ZMYM1 |
| TC01000454.hg.1 | 3.55 | PSR01006977.hg.1 | ZMYM1 |
| TC01000454.hg.1 | 2.18 | JUC01003620.hg.1 | ZMYM1 |
| TC01000454.hg.1 | 2.11 | PSR01006991.hg.1 | ZMYM1 |
| TC01000454.hg.1 | 2 | JUC01003624.hg.1 | ZMYM1 |
| TC06000325.hg.1 | 3.75 | PSR06002601.hg.1 | LOC554223, |
| TC06000325.hg.1 | 3.05 | PSR06002600.hg.1 | LOC554223, |
| TC06000325.hg.1 | 2.57 | JUC06001178.hg.1 | LOC554223, |
| TC06000325.hg.1 | 2.27 | JUC06001177.hg.1 | LOC554223, |
| TC06000325.hg.1 | 2.23 | PSR06002596.hg.1 | LOC554223, |
| TC06001492.hg.1 | 3.75 | PSR06016764.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 3.2 | PSR06016740.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 3.11 | PSR06016748.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.99 | PSR06016753.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.84 | PSR06016733.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.75 | PSR06016754.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.71 | PSR06016745.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.57 | JUC06008251.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.56 | PSR06016732.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.51 | JUC06008266.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.5 | PSR06016758.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.49 | PSR06016749.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.36 | PSR06016750.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.29 | PSR06016755.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | 2.08 | PSR06016739.hg.1 | ZNRD1-AS1 |
| TC06001492.hg.1 | -2.62 | JUC06008264.hg.1 | ZNRD1-AS1 |
| TC09000691.hg.1 | 3.75 | PSR09008371.hg.1 | ODF2 |
| TC09000691.hg.1 | 3.41 | JUC09004634.hg.1 | ODF2 |
| TC09000691.hg.1 | 3.28 | JUC09004664.hg.1 | ODF2 |
| TC09000691.hg.1 | 2.58 | JUC09004655.hg.1 | ODF2 |
| TC09000691.hg.1 | 2.33 | JUC09004669.hg.1 | ODF2 |
| TC09000691.hg.1 | 2.18 | PSR09008402.hg.1 | ODF2 |
| TC09000691.hg.1 | 2.02 | PSR09008373.hg.1 | ODF2 |
| TC09000691.hg.1 | 2.02 | JUC09004657.hg.1 | ODF2 |
| TC09000691.hg.1 | -3.04 | JUC09004647.hg.1 | ODF2 |
| TC11000790.hg.1 | 3.75 | JUC11005301.hg.1 | POLD3 |
| TC11000790.hg.1 | 3.42 | JUC11005306.hg.1 | POLD3 |
| TC11000790.hg.1 | 2.65 | PSR11010163.hg.1 | POLD3 |
| TC12000549.hg.1 | 3.75 | JUC12003827.hg.1 | LOC1005068 |
| TC12000549.hg.1 | 2.12 | PSR12007382.hg.1 | LOC1005068 |
| TC12001817.hg.1 | 3.75 | PSR12023994.hg.1 | SOCS2-AS1 |
| TC12001817.hg.1 | 3.48 | PSR12023995.hg.1 | SOCS2-AS1 |
| TC12001817.hg.1 | 3.03 | JUC12013311.hg.1 | SOCS2-AS1 |
| TC12001817.hg.1 | 2.67 | JUC12013309.hg.1 | SOCS2-AS1 |
| TC12001817.hg.1 | 2.34 | PSR12023992.hg.1 | SOCS2-AS1 |
| TC20001039.hg.1 | 3.75 | JUC20007460.hg.1 | ZBTB46 |
| TC20001039.hg.1 | -3.01 | PSR20014248.hg.1 | ZBTB46 |
| TC01003456.hg.1 | 3.74 | JUC01028061.hg.1 | C1orf110 |
| TC01003456.hg.1 | 2.53 | PSR01053844.hg.1 | C1orf110 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01003456.hg.1 | 2.34 | PSR01053843.hg.1 | C1orf110 |
| TC04000962.hg.1 | 3.74 | PSR04013051.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | 2.96 | JUC04006970.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | 2.95 | PSR04013046.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | 2.83 | JUC04006974.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | 2.25 | JUC04006989.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | -2.1 | PSR04013096.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | -2.59 | JUC04006968.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | -2.68 | JUC04006980.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | -3.07 | JUC04006987.hg.1 | SPON2, LOC |
| TC04000962.hg.1 | -4.59 | JUC04006979.hg.1 | SPON2, LOC |
| TC08000002.hg.1 | 3.74 | JUC08000005.hg.1 | ZNF596 |
| TC08000002.hg.1 | 3.18 | JUC08000010.hg.1 | ZNF596 |
| TC08000002.hg.1 | 2.69 | PSR08000009.hg.1 | ZNF596 |
| TC08000002.hg.1 | 2.4 | PSR08000007.hg.1 | ZNF596 |
| TC08000002.hg.1 | 2.38 | PSR08000010.hg.1 | ZNF596 |
| TC08000002.hg.1 | -2.01 | PSR08000037.hg.1 | ZNF596 |
| TC14000208.hg.1 | 3.74 | JUC14001021.hg.1 | AKAP6 |
| TC14000208.hg.1 | -2.57 | PSR14002277.hg.1 | AKAP6 |
| TC14000208.hg.1 | -3.28 | JUC14001020.hg.1 | AKAP6 |
| TC16000750.hg.1 | 3.74 | JUC16006113.hg.1 | UNKL |
| TC16000750.hg.1 | 2.86 | JUC16006114.hg.1 | UNKL |
| TC16000750.hg.1 | 2.28 | PSR16010927.hg.1 | UNKL |
| TC16000750.hg.1 | 2.07 | JUC16006106.hg.1 | UNKL |
| TC16000750.hg.1 | -2.06 | JUC16006102.hg.1 | UNKL |
| TC16000750.hg.1 | -2.15 | JUC16006111.hg.1 | UNKL |
| TC16000750.hg.1 | -4.35 | JUC16006099.hg.1 | UNKL |
| TC17000207.hg.1 | 3.74 | JUC17001688.hg.1 | ALKBH5, LOC |
| TC17000207.hg.1 | 3.33 | PSR17002976.hg.1 | ALKBH5, LOC |
| TC17000207.hg.1 | 2.85 | JUC17001691.hg.1 | ALKBH5, LOC |
| TC17000207.hg.1 | 2.58 | PSR17002973.hg.1 | ALKBH5, LOC |
| TC17000207.hg.1 | 2.22 | PSR17002975.hg.1 | ALKBH5, LOC |
| TC17000207.hg.1 | 2.07 | PSR17002974.hg.1 | ALKBH5, LOC |
| TC20000566.hg.1 | 3.74 | PSR20008229.hg.1 | PCED1A |
| TC20000566.hg.1 | -2.73 | JUC20004203.hg.1 | PCED1A |
| TC05000761.hg.1 | 3.73 | JUC05005680.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 3.17 | JUC05005666.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.97 | JUC05005676.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.86 | JUC05005672.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.58 | JUC05005668.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.55 | JUC05005667.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.5 | JUC05005681.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.45 | JUC05005656.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.35 | JUC05005655.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.32 | JUC05005674.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.31 | JUC05005678.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.29 | PSR05010868.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.2 | JUC05005677.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.18 | PSR05010862.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.12 | JUC05005657.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.12 | JUC05005662.hg.1 | PCDHGC4, P |
| TC05000761.hg.1 | 2.08 | JUC05005675.hg.1 | PCDHGC4, P |
| TC08000645.hg.1 | 3.73 | JUC08004463.hg.1 | FZD6 |
| TC08000645.hg.1 | 2.32 | PSR08008772.hg.1 | FZD6 |
| TC08001332.hg.1 | 3.73 | JUC08008843.hg.1 | TCEB1 |
| TC08001332.hg.1 | 2.67 | PSR08017216.hg.1 | TCEB1 |
| TC16000503.hg.1 | 3.73 | JUC16004031.hg.1 | NDRG4 |
| TC16000503.hg.1 | 3.33 | JUC16004027.hg.1 | NDRG4 |

| | | | |
|-----------------|-------|------------------|---------|
| TC16000503.hg.1 | 2.84 | JUC16004022.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.74 | PSR16007050.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.69 | PSR16007055.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.68 | JUC16004032.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.4 | JUC16004042.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.34 | PSR16007061.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.29 | JUC16004024.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.18 | PSR16007077.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.13 | PSR16007062.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.1 | PSR16007058.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.1 | PSR16007066.hg.1 | NDRG4 |
| TC16000503.hg.1 | 2.1 | JUC16004035.hg.1 | NDRG4 |
| TC16000503.hg.1 | -2.04 | JUC16004036.hg.1 | NDRG4 |
| TC16000503.hg.1 | -2.27 | JUC16004018.hg.1 | NDRG4 |
| TC19001438.hg.1 | 3.73 | JUC19011239.hg.1 | ZNF792 |
| TC19001438.hg.1 | 2.51 | PSR19019345.hg.1 | ZNF792 |
| TC19001700.hg.1 | 3.73 | JUC19013246.hg.1 | PLEKHA4 |
| TC19001700.hg.1 | 2.06 | PSR19023165.hg.1 | PLEKHA4 |
| TC19001700.hg.1 | -2.04 | JUC19013231.hg.1 | PLEKHA4 |
| TC19001700.hg.1 | -3.32 | JUC19013244.hg.1 | PLEKHA4 |
| TC01002733.hg.1 | 3.72 | JUC01022935.hg.1 | ITGB3BP |
| TC01002733.hg.1 | 2.21 | PSR01042902.hg.1 | ITGB3BP |
| TC01002733.hg.1 | 2.16 | JUC01022920.hg.1 | ITGB3BP |
| TC01002733.hg.1 | -3.86 | JUC01022917.hg.1 | ITGB3BP |
| TC01002733.hg.1 | -4.22 | JUC01022936.hg.1 | ITGB3BP |
| TC01002733.hg.1 | -5.29 | JUC01022915.hg.1 | ITGB3BP |
| TC08000160.hg.1 | 3.72 | JUC08000893.hg.1 | XPO7 |
| TC08000160.hg.1 | 2.79 | PSR08001629.hg.1 | XPO7 |
| TC08000160.hg.1 | 2.09 | PSR08001651.hg.1 | XPO7 |
| TC11000963.hg.1 | 3.72 | JUC11006427.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | 3.2 | JUC11006367.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | 2.49 | JUC11006420.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | 2.38 | JUC11006398.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | 2.27 | JUC11006416.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | 2.08 | JUC11006371.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | -2.03 | JUC11006359.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | -2.06 | JUC11006418.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | -2.21 | PSR11012007.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | -2.86 | JUC11006421.hg.1 | DYNC2H1 |
| TC11000963.hg.1 | -2.94 | JUC11006426.hg.1 | DYNC2H1 |
| TC15000448.hg.1 | 3.72 | PSR15004259.hg.1 | RNF111 |
| TC15000448.hg.1 | 2.41 | PSR15004270.hg.1 | RNF111 |
| TC15000448.hg.1 | 2.14 | JUC15002098.hg.1 | RNF111 |
| TC15000448.hg.1 | -2.11 | JUC15002103.hg.1 | RNF111 |
| TC15000465.hg.1 | 3.72 | JUC15002153.hg.1 | |
| TC15000465.hg.1 | -2.64 | PSR15004356.hg.1 | |
| TC15000465.hg.1 | -2.99 | PSR15004360.hg.1 | |
| TC17001341.hg.1 | 3.72 | JUC17010104.hg.1 | EVI2B |
| TC17001341.hg.1 | 2.59 | JUC17010105.hg.1 | EVI2B |
| TC17001341.hg.1 | 2.51 | PSR17017838.hg.1 | EVI2B |
| TC11001523.hg.1 | 3.71 | JUC11010156.hg.1 | MPPED2 |
| TC11001523.hg.1 | 2.41 | JUC11010157.hg.1 | MPPED2 |
| TC11001523.hg.1 | 2.24 | JUC11010151.hg.1 | MPPED2 |
| TC11001523.hg.1 | 2.22 | PSR11019027.hg.1 | MPPED2 |
| TC12001412.hg.1 | 3.71 | PSR12018284.hg.1 | PUS7L |
| TC12001412.hg.1 | -2.44 | JUC12010201.hg.1 | PUS7L |
| TC15000433.hg.1 | 3.71 | JUC15001930.hg.1 | TEX9 |
| TC15000433.hg.1 | 2.12 | PSR15003992.hg.1 | TEX9 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC15001612.hg.1 | 3.71 | PSR15015540.hg.1 | UACA |
| TC15001612.hg.1 | 2.32 | JUC15008438.hg.1 | UACA |
| TC15001612.hg.1 | 2.14 | PSR15015516.hg.1 | UACA |
| TC15001612.hg.1 | -2.07 | JUC15008436.hg.1 | UACA |
| TC15001612.hg.1 | -2.23 | JUC15008448.hg.1 | UACA |
| TC01000313.hg.1 | 3.7 | PSR01004752.hg.1 | SRRM1 |
| TC01000313.hg.1 | 2.21 | JUC01002558.hg.1 | SRRM1 |
| TC01000313.hg.1 | -2 | PSR01004768.hg.1 | SRRM1 |
| TC01000313.hg.1 | -2.01 | JUC01002562.hg.1 | SRRM1 |
| TC01000313.hg.1 | -2.12 | JUC01002557.hg.1 | SRRM1 |
| TC01000313.hg.1 | -2.31 | PSR01004771.hg.1 | SRRM1 |
| TC04000072.hg.1 | 3.7 | JUC04000757.hg.1 | S100P |
| TC04000072.hg.1 | 2.21 | PSR04001641.hg.1 | S100P |
| TC04000072.hg.1 | 2.01 | JUC04000758.hg.1 | S100P |
| TC04000072.hg.1 | -2.08 | PSR04001636.hg.1 | S100P |
| TC04000181.hg.1 | 3.7 | PSR04002853.hg.1 | RBPJ |
| TC04000181.hg.1 | 2.43 | JUC04001353.hg.1 | RBPJ |
| TC04000181.hg.1 | 2.05 | JUC04001365.hg.1 | RBPJ |
| TC08000646.hg.1 | 3.7 | JUC08004469.hg.1 | CTHRC1 |
| TC08000646.hg.1 | 3.18 | PSR08008801.hg.1 | CTHRC1 |
| TC08000646.hg.1 | 2.13 | JUC08004465.hg.1 | CTHRC1 |
| TC08000646.hg.1 | -2.95 | PSR08008790.hg.1 | CTHRC1 |
| TC08000646.hg.1 | -6.65 | PSR08008793.hg.1 | CTHRC1 |
| TC08000646.hg.1 | -9.34 | PSR08008788.hg.1 | CTHRC1 |
| TC10001195.hg.1 | 3.7 | JUC10008706.hg.1 | ZNF33B |
| TC10001195.hg.1 | 2.54 | PSR10015007.hg.1 | ZNF33B |
| TC13001718.hg.1 | 3.7 | JUC13008373.hg.1 | LINC00598 |
| TC13001718.hg.1 | 2.23 | PSR13006760.hg.1 | LINC00598 |
| TC15001507.hg.1 | 3.7 | JUC15007696.hg.1 | RORA |
| TC15001507.hg.1 | 2.98 | PSR15014280.hg.1 | RORA |
| TC15001507.hg.1 | 2.8 | JUC15007691.hg.1 | RORA |
| TC15001507.hg.1 | 2.26 | PSR15014285.hg.1 | RORA |
| TC15001507.hg.1 | 2.01 | PSR15014274.hg.1 | RORA |
| TC15001507.hg.1 | 2.01 | PSR15014282.hg.1 | RORA |
| TC15001507.hg.1 | -2.32 | PSR15014275.hg.1 | RORA |
| TC16000464.hg.1 | 3.7 | JUC16003631.hg.1 | MT4 |
| TC16000464.hg.1 | 2.88 | PSR16006451.hg.1 | MT4 |
| TC19000058.hg.1 | 3.7 | PSR19000898.hg.1 | ZNF554 |
| TC19000058.hg.1 | 2.3 | JUC19000493.hg.1 | ZNF554 |
| TC19000058.hg.1 | 2.01 | JUC19000494.hg.1 | ZNF554 |
| TC01002519.hg.1 | 3.69 | PSR01039158.hg.1 | GNL2 |
| TC01002519.hg.1 | 3.68 | JUC01021022.hg.1 | GNL2 |
| TC01002519.hg.1 | -2.02 | JUC01021017.hg.1 | GNL2 |
| TC01002519.hg.1 | -2.08 | JUC01021027.hg.1 | GNL2 |
| TC01003801.hg.1 | 3.68 | JUC01030384.hg.1 | INTS7 |
| TC01003801.hg.1 | 2.87 | JUC01030389.hg.1 | INTS7 |
| TC01003801.hg.1 | -2.09 | PSR01058132.hg.1 | INTS7 |
| TC01003801.hg.1 | -3.32 | JUC01030387.hg.1 | INTS7 |
| TC08000579.hg.1 | 3.68 | JUC08004032.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 3.01 | JUC08004050.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.92 | PSR08008029.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.52 | JUC08004063.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.3 | JUC08004054.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.25 | JUC08004036.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.17 | PSR08008073.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.16 | JUC08004030.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | 2.11 | JUC08004041.hg.1 | NDUFAF6, LC |
| TC08000579.hg.1 | -4.46 | PSR08008033.hg.1 | NDUFAF6, LC |

| | | | |
|-----------------|--------|------------------|---------|
| TC10000663.hg.1 | 3.68 | JUC10004242.hg.1 | CYP26A1 |
| TC10000663.hg.1 | 2.09 | PSR10007472.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -2.03 | PSR10007469.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -2.64 | JUC10004246.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -3.06 | JUC10004248.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -4.43 | PSR10007467.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -8.56 | PSR10007465.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -10.01 | PSR10007466.hg.1 | CYP26A1 |
| TC10000663.hg.1 | -13.3 | JUC10004247.hg.1 | CYP26A1 |
| TC12001862.hg.1 | 3.68 | JUC12013549.hg.1 | ANKS1B |
| TC12001862.hg.1 | 2.77 | JUC12013574.hg.1 | ANKS1B |
| TC12001862.hg.1 | 2.71 | JUC12013578.hg.1 | ANKS1B |
| TC12001862.hg.1 | 2.61 | PSR12024377.hg.1 | ANKS1B |
| TC12001862.hg.1 | 2.04 | JUC12013554.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.03 | PSR12024405.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.03 | PSR12024411.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.03 | JUC12013560.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.17 | PSR12024400.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.18 | PSR12024408.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.38 | PSR12024393.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.47 | PSR12024401.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.55 | JUC12013571.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.76 | PSR12024403.hg.1 | ANKS1B |
| TC12001862.hg.1 | -2.9 | JUC12013584.hg.1 | ANKS1B |
| TC12001862.hg.1 | -3.58 | JUC12013566.hg.1 | ANKS1B |
| TC02000270.hg.1 | 3.67 | PSR02003998.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 3.09 | PSR02003966.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.78 | PSR02003968.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.56 | PSR02003974.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.55 | JUC02002068.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.34 | PSR02003973.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.09 | JUC02002064.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.08 | PSR02003969.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | 2.02 | PSR02004001.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | -2.13 | JUC02002082.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | -2.22 | JUC02002071.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | -2.37 | JUC02002062.hg.1 | PLEKHH2 |
| TC02000270.hg.1 | -2.54 | JUC02002076.hg.1 | PLEKHH2 |
| TC02001361.hg.1 | 3.67 | JUC02011276.hg.1 | COL4A3 |
| TC02001361.hg.1 | 2.58 | PSR02021194.hg.1 | COL4A3 |
| TC02001361.hg.1 | 2.56 | JUC02011325.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.04 | JUC02011342.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.05 | PSR02021199.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.14 | PSR02021173.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.14 | JUC02011306.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.21 | JUC02011282.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.24 | PSR02021192.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.26 | PSR02021214.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.29 | PSR02021174.hg.1 | COL4A3 |
| TC02001361.hg.1 | -2.46 | PSR02021215.hg.1 | COL4A3 |
| TC02002434.hg.1 | 3.67 | PSR02038449.hg.1 | PRPF40A |
| TC02002434.hg.1 | 2.24 | JUC02020111.hg.1 | PRPF40A |
| TC02002434.hg.1 | 2.01 | JUC02020118.hg.1 | PRPF40A |
| TC03000375.hg.1 | 3.67 | PSR03008088.hg.1 | FLNB |
| TC03000375.hg.1 | 2.86 | PSR03008086.hg.1 | FLNB |
| TC03000375.hg.1 | 2.49 | JUC03003992.hg.1 | FLNB |
| TC03000375.hg.1 | 2.13 | PSR03008087.hg.1 | FLNB |
| TC03000375.hg.1 | 2 | PSR03008145.hg.1 | FLNB |

| | | | |
|-----------------|--------|------------------|------------|
| TC05000433.hg.1 | 3.67 | JUC05003335.hg.1 | TMEM161B-A |
| TC05000433.hg.1 | 3.63 | JUC05003333.hg.1 | TMEM161B-A |
| TC05000433.hg.1 | 2.68 | JUC05003347.hg.1 | TMEM161B-A |
| TC05000433.hg.1 | 2.24 | PSR05006114.hg.1 | TMEM161B-A |
| TC05000433.hg.1 | 2.08 | JUC05003337.hg.1 | TMEM161B-A |
| TC05000433.hg.1 | -2.41 | JUC05003345.hg.1 | TMEM161B-A |
| TC06000938.hg.1 | 3.67 | JUC06005231.hg.1 | |
| TC06000938.hg.1 | 2.15 | PSR06010971.hg.1 | |
| TC07000652.hg.1 | 3.67 | JUC07004731.hg.1 | SH2B2 |
| TC07000652.hg.1 | -2.58 | JUC07004744.hg.1 | SH2B2 |
| TC07000652.hg.1 | -2.96 | PSR07010179.hg.1 | SH2B2 |
| TC15001230.hg.1 | 3.67 | JUC15005838.hg.1 | BMF |
| TC15001230.hg.1 | -2.14 | PSR15011035.hg.1 | BMF |
| TC15001230.hg.1 | -2.61 | PSR15011036.hg.1 | BMF |
| TC02002673.hg.1 | 3.67 | JUC02022487.hg.1 | ALS2CR12 |
| TC02002673.hg.1 | -2 | PSR02042976.hg.1 | ALS2CR12 |
| TC05000398.hg.1 | 3.66 | JUC05003062.hg.1 | ZFYVE16 |
| TC05000398.hg.1 | 3.33 | JUC05003068.hg.1 | ZFYVE16 |
| TC05000398.hg.1 | 2.51 | PSR05005619.hg.1 | ZFYVE16 |
| TC05000398.hg.1 | 2.31 | JUC05003070.hg.1 | ZFYVE16 |
| TC05000398.hg.1 | 2.23 | PSR05005622.hg.1 | ZFYVE16 |
| TC05000398.hg.1 | -2.73 | JUC05003063.hg.1 | ZFYVE16 |
| TC10000204.hg.1 | 3.66 | JUC10001311.hg.1 | LOC387647 |
| TC10000204.hg.1 | -2.05 | PSR10002437.hg.1 | LOC387647 |
| TC10000204.hg.1 | -2.26 | PSR10002435.hg.1 | LOC387647 |
| TC10000204.hg.1 | -2.77 | PSR10002436.hg.1 | LOC387647 |
| TC10000204.hg.1 | -3.51 | JUC10001319.hg.1 | LOC387647 |
| TC15002009.hg.1 | 3.66 | PSR15018660.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 3.6 | JUC15010174.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 3.15 | JUC15010170.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 3.02 | PSR15018654.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.76 | PSR15018628.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.55 | JUC15010166.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.51 | JUC15010152.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.47 | PSR15018637.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.46 | PSR15018627.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.33 | JUC15010161.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.28 | JUC15010169.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.26 | PSR15018659.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.07 | PSR15018645.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.07 | PSR15018650.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | 2.02 | JUC15010163.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -2.01 | PSR15018648.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -2.25 | PSR15018642.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -2.68 | PSR15018629.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -2.93 | JUC15010167.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -3.11 | JUC15010151.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -3.12 | JUC15010173.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -3.28 | JUC15010164.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -3.38 | JUC15010149.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -4.15 | JUC15010154.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -4.25 | PSR15018626.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -5.33 | JUC15010175.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -10.64 | JUC15010172.hg.1 | PCSK6, LOC |
| TC15002009.hg.1 | -11.81 | JUC15010157.hg.1 | PCSK6, LOC |
| TC22000326.hg.1 | 3.66 | JUC22002265.hg.1 | MCHR1 |
| TC22000326.hg.1 | 2.27 | JUC22002267.hg.1 | MCHR1 |
| TC22000326.hg.1 | 2.12 | PSR22006285.hg.1 | MCHR1 |

| | | | |
|-----------------|-------|------------------|-------|
| TC22000326.hg.1 | 2.12 | PSR22006286.hg.1 | MCHR1 |
| TC22000326.hg.1 | -2.43 | JUC22002266.hg.1 | MCHR1 |
| TC22000326.hg.1 | -2.49 | PSR22006289.hg.1 | MCHR1 |
| TC22000326.hg.1 | -4.62 | PSR22006288.hg.1 | MCHR1 |
| TC01000024.hg.1 | 3.65 | JUC01000127.hg.1 | AGRN |
| TC01000024.hg.1 | 2.52 | PSR01000260.hg.1 | AGRN |
| TC01000024.hg.1 | 2.48 | PSR01000278.hg.1 | AGRN |
| TC01000024.hg.1 | 2.12 | JUC01000124.hg.1 | AGRN |
| TC01000024.hg.1 | 2.12 | JUC01000137.hg.1 | AGRN |
| TC01000024.hg.1 | -2.02 | PSR01000248.hg.1 | AGRN |
| TC01000024.hg.1 | -2.02 | JUC01000126.hg.1 | AGRN |
| TC01000024.hg.1 | -2.05 | JUC01000149.hg.1 | AGRN |
| TC01000024.hg.1 | -2.37 | JUC01000125.hg.1 | AGRN |
| TC01000024.hg.1 | -2.43 | JUC01000136.hg.1 | AGRN |
| TC01000151.hg.1 | 3.65 | JUC01001329.hg.1 | PLOD1 |
| TC01000151.hg.1 | 2.03 | PSR01002441.hg.1 | PLOD1 |
| TC02000939.hg.1 | 3.65 | JUC02007348.hg.1 | RIF1 |
| TC02000939.hg.1 | 2.42 | JUC02007366.hg.1 | RIF1 |
| TC02000939.hg.1 | 2.16 | PSR02013734.hg.1 | RIF1 |
| TC02000939.hg.1 | 2.15 | PSR02013678.hg.1 | RIF1 |
| TC02000939.hg.1 | -2.03 | JUC02007341.hg.1 | RIF1 |
| TC02000939.hg.1 | -3.28 | JUC02007347.hg.1 | RIF1 |
| TC03000419.hg.1 | 3.65 | JUC03004347.hg.1 | MITF |
| TC03000419.hg.1 | 3.35 | JUC03004357.hg.1 | MITF |
| TC03000419.hg.1 | 2.52 | PSR03008700.hg.1 | MITF |
| TC03000419.hg.1 | 2.47 | JUC03004345.hg.1 | MITF |
| TC03000419.hg.1 | 2.44 | PSR03008712.hg.1 | MITF |
| TC03000419.hg.1 | 2.36 | JUC03004355.hg.1 | MITF |
| TC03000419.hg.1 | 2.3 | PSR03008715.hg.1 | MITF |
| TC03000419.hg.1 | 2.08 | JUC03004342.hg.1 | MITF |
| TC03000419.hg.1 | 2.04 | PSR03008748.hg.1 | MITF |
| TC03001004.hg.1 | 3.65 | JUC03008973.hg.1 | CHRD |
| TC03001004.hg.1 | -2.24 | PSR03017705.hg.1 | CHRD |
| TC03001004.hg.1 | -4.36 | JUC03008979.hg.1 | CHRD |
| TC04002910.hg.1 | 3.65 | JUC04016768.hg.1 | RNF4 |
| TC04002910.hg.1 | -2.03 | PSR04000829.hg.1 | RNF4 |
| TC04002910.hg.1 | -2.36 | JUC04016749.hg.1 | RNF4 |
| TC04002910.hg.1 | -2.97 | JUC04016751.hg.1 | RNF4 |
| TC06000976.hg.1 | 3.65 | JUC06005517.hg.1 | LAMA2 |
| TC06000976.hg.1 | 3.56 | JUC06005503.hg.1 | LAMA2 |
| TC06000976.hg.1 | 3.43 | JUC06005480.hg.1 | LAMA2 |
| TC06000976.hg.1 | 3.19 | JUC06005525.hg.1 | LAMA2 |
| TC06000976.hg.1 | 3.18 | JUC06005458.hg.1 | LAMA2 |
| TC06000976.hg.1 | 3.08 | PSR06011415.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.95 | PSR06011470.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.87 | PSR06011435.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.81 | JUC06005486.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.74 | JUC06005499.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.7 | JUC06005473.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.67 | JUC06005489.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.52 | JUC06005483.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.48 | JUC06005521.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.45 | JUC06005476.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.45 | JUC06005495.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.43 | JUC06005482.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.4 | JUC06005513.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.24 | PSR06011400.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.23 | JUC06005456.hg.1 | LAMA2 |

| | | | |
|-----------------|--------|------------------|-------|
| TC06000976.hg.1 | 2.2 | PSR06011462.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.15 | PSR06011414.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.1 | PSR06011398.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.09 | JUC06005506.hg.1 | LAMA2 |
| TC06000976.hg.1 | 2.06 | PSR06011408.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2 | JUC06005500.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.02 | PSR06011428.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.02 | JUC06005504.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.07 | JUC06005462.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.1 | PSR06011404.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.15 | PSR06011424.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.17 | JUC06005465.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.28 | JUC06005494.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.43 | PSR06011427.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.55 | JUC06005511.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.58 | PSR06011396.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.64 | PSR06011421.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.69 | PSR06011403.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.7 | PSR06011438.hg.1 | LAMA2 |
| TC06000976.hg.1 | -2.9 | JUC06005531.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.08 | PSR06011449.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.14 | JUC06005522.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.2 | PSR06011409.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.3 | PSR06011430.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.31 | JUC06005463.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.35 | JUC06005487.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.54 | JUC06005475.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.82 | JUC06005527.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.84 | JUC06005523.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.91 | PSR06011419.hg.1 | LAMA2 |
| TC06000976.hg.1 | -3.92 | JUC06005464.hg.1 | LAMA2 |
| TC06000976.hg.1 | -4.12 | PSR06011459.hg.1 | LAMA2 |
| TC06000976.hg.1 | -4.36 | PSR06011475.hg.1 | LAMA2 |
| TC06000976.hg.1 | -4.39 | PSR06011422.hg.1 | LAMA2 |
| TC06000976.hg.1 | -4.41 | PSR06011432.hg.1 | LAMA2 |
| TC06000976.hg.1 | -4.62 | PSR06011464.hg.1 | LAMA2 |
| TC06000976.hg.1 | -4.89 | PSR06011397.hg.1 | LAMA2 |
| TC06000976.hg.1 | -5.72 | PSR06011395.hg.1 | LAMA2 |
| TC06000976.hg.1 | -5.82 | PSR06011407.hg.1 | LAMA2 |
| TC06000976.hg.1 | -6 | JUC06005474.hg.1 | LAMA2 |
| TC06000976.hg.1 | -6.41 | PSR06011460.hg.1 | LAMA2 |
| TC06000976.hg.1 | -6.52 | JUC06005488.hg.1 | LAMA2 |
| TC06000976.hg.1 | -8.12 | JUC06005472.hg.1 | LAMA2 |
| TC06000976.hg.1 | -8.49 | JUC06005459.hg.1 | LAMA2 |
| TC06000976.hg.1 | -8.59 | PSR06011429.hg.1 | LAMA2 |
| TC06000976.hg.1 | -10.18 | PSR06011426.hg.1 | LAMA2 |
| TC06000976.hg.1 | -10.64 | JUC06005470.hg.1 | LAMA2 |
| TC06000976.hg.1 | -10.89 | PSR06011476.hg.1 | LAMA2 |
| TC06000976.hg.1 | -13.42 | JUC06005508.hg.1 | LAMA2 |
| TC06000976.hg.1 | -16.1 | JUC06005505.hg.1 | LAMA2 |
| TC06000976.hg.1 | -16.84 | PSR06011393.hg.1 | LAMA2 |
| TC06000976.hg.1 | -17.87 | JUC06005491.hg.1 | LAMA2 |
| TC06000976.hg.1 | -41.24 | JUC06005461.hg.1 | LAMA2 |
| TC10001327.hg.1 | 3.65 | PSR10016755.hg.1 | EGR2 |
| TC10001327.hg.1 | 3.21 | JUC10009791.hg.1 | EGR2 |
| TC10001327.hg.1 | -2.26 | PSR10016756.hg.1 | EGR2 |
| TC10001327.hg.1 | -2.74 | PSR10016761.hg.1 | EGR2 |
| TC10001327.hg.1 | -3.37 | JUC10009789.hg.1 | EGR2 |

| | | | |
|-----------------|--------|------------------|-----------|
| TC10001327.hg.1 | -4.15 | PSR10016747.hg.1 | EGR2 |
| TC10001327.hg.1 | -6.19 | PSR10016751.hg.1 | EGR2 |
| TC10001327.hg.1 | -6.89 | PSR10016769.hg.1 | EGR2 |
| TC10001327.hg.1 | -7.52 | PSR10016749.hg.1 | EGR2 |
| TC10001327.hg.1 | -7.59 | JUC10009783.hg.1 | EGR2 |
| TC10001327.hg.1 | -9.54 | PSR10016767.hg.1 | EGR2 |
| TC10001327.hg.1 | -11.23 | PSR10016770.hg.1 | EGR2 |
| TC10001327.hg.1 | -13.54 | JUC10009784.hg.1 | EGR2 |
| TC13000687.hg.1 | 3.65 | JUC13004679.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.4 | PSR13008054.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.4 | JUC13004702.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.39 | JUC13004698.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.28 | JUC13004693.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.27 | PSR13008065.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.21 | JUC13004714.hg.1 | MRPS31P3, |
| TC13000687.hg.1 | 2.01 | PSR13008050.hg.1 | MRPS31P3, |
| TC17000655.hg.1 | 3.65 | JUC17004544.hg.1 | PDK2 |
| TC17000655.hg.1 | 3.13 | PSR17008211.hg.1 | PDK2 |
| TC17000655.hg.1 | 2.27 | PSR17008226.hg.1 | PDK2 |
| TC17000655.hg.1 | 2.16 | PSR17008228.hg.1 | PDK2 |
| TC17000655.hg.1 | 2.12 | PSR17008208.hg.1 | PDK2 |
| TC17000655.hg.1 | 2.07 | PSR17008245.hg.1 | PDK2 |
| TC17000655.hg.1 | 2.05 | PSR17008240.hg.1 | PDK2 |
| TC17000655.hg.1 | 2.04 | PSR17008232.hg.1 | PDK2 |
| TC17000953.hg.1 | 3.65 | JUC17007103.hg.1 | NARF |
| TC17000953.hg.1 | 2.35 | PSR17012534.hg.1 | NARF |
| TC17000953.hg.1 | 2.23 | JUC17007117.hg.1 | NARF |
| TC17000953.hg.1 | 2.21 | PSR17012539.hg.1 | NARF |
| TC17002913.hg.1 | 3.65 | PSR17003578.hg.1 | |
| TC17002913.hg.1 | 3.06 | PSR17003576.hg.1 | |
| TC17002913.hg.1 | 2.1 | JUC17019182.hg.1 | |
| TC17002913.hg.1 | -2.18 | JUC17019178.hg.1 | |
| TC17002913.hg.1 | -2.55 | PSR17003573.hg.1 | |
| TC17002913.hg.1 | -2.63 | JUC17019181.hg.1 | |
| TC17002913.hg.1 | -3.17 | JUC17019179.hg.1 | |
| TC19001155.hg.1 | 3.65 | JUC19009270.hg.1 | OLFM2 |
| TC19001155.hg.1 | 3.26 | PSR19015949.hg.1 | OLFM2 |
| TC19001155.hg.1 | -2.31 | JUC19009268.hg.1 | OLFM2 |
| TC20000198.hg.1 | 3.65 | JUC20001274.hg.1 | TPX2 |
| TC20000198.hg.1 | 3.25 | JUC20001276.hg.1 | TPX2 |
| TC20000198.hg.1 | 3.02 | PSR20002360.hg.1 | TPX2 |
| TC20000198.hg.1 | 3 | PSR20002361.hg.1 | TPX2 |
| TC20000198.hg.1 | 2.2 | PSR20002363.hg.1 | TPX2 |
| TC20000198.hg.1 | 2.12 | JUC20001275.hg.1 | TPX2 |
| TC20000198.hg.1 | -2 | JUC20001264.hg.1 | TPX2 |
| TC20000198.hg.1 | -2.37 | JUC20001266.hg.1 | TPX2 |
| TC01002405.hg.1 | 3.64 | JUC01019958.hg.1 | MAP3K6 |
| TC01002405.hg.1 | 2.2 | PSR01037073.hg.1 | MAP3K6 |
| TC02002478.hg.1 | 3.64 | JUC02020440.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.6 | JUC02020445.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.53 | PSR02039034.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.38 | PSR02039024.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.26 | PSR02039017.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.26 | JUC02020450.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.24 | JUC02020429.hg.1 | DPP4 |
| TC02002478.hg.1 | 2.04 | JUC02020454.hg.1 | DPP4 |
| TC02002478.hg.1 | -2.04 | PSR02039063.hg.1 | DPP4 |
| TC02002478.hg.1 | -2.06 | PSR02039058.hg.1 | DPP4 |

| | | | |
|-----------------|-------|------------------|---------|
| TC02002478.hg.1 | -2.21 | PSR02039054.hg.1 | DPP4 |
| TC02002478.hg.1 | -2.39 | PSR02039062.hg.1 | DPP4 |
| TC02002478.hg.1 | -2.72 | JUC02020441.hg.1 | DPP4 |
| TC02002478.hg.1 | -2.84 | PSR02039031.hg.1 | DPP4 |
| TC02002478.hg.1 | -3.59 | PSR02039019.hg.1 | DPP4 |
| TC08002626.hg.1 | 3.64 | JUC08015390.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 3.19 | JUC08015379.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.88 | JUC08015383.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.68 | PSR08008961.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.63 | JUC08015382.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.36 | PSR08008939.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.34 | PSR08008936.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.2 | PSR08008944.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.04 | PSR08008948.hg.1 | ZFPM2 |
| TC08002626.hg.1 | 2.03 | PSR08008934.hg.1 | ZFPM2 |
| TC09000508.hg.1 | 3.64 | PSR09005517.hg.1 | NR4A3 |
| TC09000508.hg.1 | 2.98 | PSR09005519.hg.1 | NR4A3 |
| TC09000508.hg.1 | 2.42 | PSR09005521.hg.1 | NR4A3 |
| TC09000508.hg.1 | 2.17 | JUC09003064.hg.1 | NR4A3 |
| TC09000508.hg.1 | 2.15 | JUC09003071.hg.1 | NR4A3 |
| TC09000508.hg.1 | -2.29 | JUC09003066.hg.1 | NR4A3 |
| TC12001328.hg.1 | 3.64 | JUC12009591.hg.1 | ITPR2 |
| TC12001328.hg.1 | 2.82 | JUC12009606.hg.1 | ITPR2 |
| TC12001328.hg.1 | 2.58 | JUC12009632.hg.1 | ITPR2 |
| TC12001328.hg.1 | 2.21 | JUC12009598.hg.1 | ITPR2 |
| TC12001328.hg.1 | 2.11 | JUC12009618.hg.1 | ITPR2 |
| TC12001328.hg.1 | -2.41 | JUC12009626.hg.1 | ITPR2 |
| TC12001328.hg.1 | -2.74 | PSR12017380.hg.1 | ITPR2 |
| TC18000418.hg.1 | 3.64 | JUC18002877.hg.1 | OSBPL1A |
| TC18000418.hg.1 | 2.56 | PSR18004277.hg.1 | OSBPL1A |
| TC18000418.hg.1 | 2.38 | JUC18002862.hg.1 | OSBPL1A |
| TC18000418.hg.1 | 2.26 | PSR18004259.hg.1 | OSBPL1A |
| TC18000418.hg.1 | 2.12 | PSR18004278.hg.1 | OSBPL1A |
| TC18000418.hg.1 | 2.07 | JUC18002876.hg.1 | OSBPL1A |
| TC18000418.hg.1 | 2.06 | PSR18004264.hg.1 | OSBPL1A |
| TC18000418.hg.1 | -2.15 | PSR18004244.hg.1 | OSBPL1A |
| TC18000418.hg.1 | -2.2 | JUC18002880.hg.1 | OSBPL1A |
| TC19001792.hg.1 | 3.64 | JUC19013843.hg.1 | ZNF615 |
| TC19001792.hg.1 | 2.27 | PSR19024351.hg.1 | ZNF615 |
| TC01001799.hg.1 | 3.63 | JUC01015170.hg.1 | SPATA17 |
| TC01001799.hg.1 | 3.2 | PSR01028129.hg.1 | SPATA17 |
| TC01001799.hg.1 | 3.1 | JUC01015157.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.02 | PSR01028121.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.08 | PSR01028134.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.09 | JUC01015165.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.15 | JUC01015172.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.18 | PSR01028120.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.41 | JUC01015167.hg.1 | SPATA17 |
| TC01001799.hg.1 | -2.76 | JUC01015155.hg.1 | SPATA17 |
| TC04001129.hg.1 | 3.63 | PSR04015453.hg.1 | RPL9 |
| TC04001129.hg.1 | 3.23 | JUC04008191.hg.1 | RPL9 |
| TC04001129.hg.1 | 2.23 | JUC04008184.hg.1 | RPL9 |
| TC04001129.hg.1 | 2.13 | JUC04008187.hg.1 | RPL9 |
| TC04001129.hg.1 | 2.04 | PSR04015448.hg.1 | RPL9 |
| TC05001545.hg.1 | 3.63 | JUC05010884.hg.1 | SSBP2 |
| TC05001545.hg.1 | -2.4 | PSR05021103.hg.1 | SSBP2 |
| TC06000597.hg.1 | 3.63 | JUC06003038.hg.1 | CUL9 |
| TC06000597.hg.1 | 3.07 | JUC06003048.hg.1 | CUL9 |

| | | | |
|-----------------|-------|------------------|----------|
| TC06000597.hg.1 | 2.95 | JUC06003035.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.77 | PSR06007024.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.71 | JUC06003053.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.56 | PSR06007040.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.43 | JUC06003040.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.42 | JUC06003057.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.38 | JUC06003023.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.24 | PSR06006969.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.21 | PSR06007007.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.14 | JUC06003066.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.11 | PSR06007019.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.08 | PSR06007039.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.08 | PSR06007041.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.06 | PSR06006965.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.06 | PSR06006996.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.02 | PSR06007027.hg.1 | CUL9 |
| TC06000597.hg.1 | 2.01 | JUC06003046.hg.1 | CUL9 |
| TC06000597.hg.1 | 2 | PSR06006994.hg.1 | CUL9 |
| TC08000021.hg.1 | 3.63 | JUC08000193.hg.1 | MCPH1 |
| TC08000021.hg.1 | 3.62 | JUC08000184.hg.1 | MCPH1 |
| TC08000021.hg.1 | 2.3 | PSR08000333.hg.1 | MCPH1 |
| TC08000021.hg.1 | 2.01 | JUC08000179.hg.1 | MCPH1 |
| TC08000021.hg.1 | -2.2 | PSR08000327.hg.1 | MCPH1 |
| TC08000021.hg.1 | -2.35 | PSR08000326.hg.1 | MCPH1 |
| TC08000343.hg.1 | 3.63 | JUC08002495.hg.1 | KIAA0146 |
| TC08000343.hg.1 | 3.3 | JUC08002519.hg.1 | KIAA0146 |
| TC08000343.hg.1 | 2.84 | JUC08002515.hg.1 | KIAA0146 |
| TC08000343.hg.1 | 2.51 | JUC08002501.hg.1 | KIAA0146 |
| TC08000343.hg.1 | 2.01 | JUC08002513.hg.1 | KIAA0146 |
| TC08000343.hg.1 | -2.05 | PSR08005075.hg.1 | KIAA0146 |
| TC08000343.hg.1 | -2.19 | PSR08005074.hg.1 | KIAA0146 |
| TC08000343.hg.1 | -3.33 | JUC08002504.hg.1 | KIAA0146 |
| TC08000343.hg.1 | -3.76 | PSR08005071.hg.1 | KIAA0146 |
| TC08000343.hg.1 | -4.58 | PSR08005069.hg.1 | KIAA0146 |
| TC08001737.hg.1 | 3.63 | JUC08011832.hg.1 | PLEC |
| TC08001737.hg.1 | 2.45 | JUC08011820.hg.1 | PLEC |
| TC08001737.hg.1 | 2.33 | JUC08011816.hg.1 | PLEC |
| TC08001737.hg.1 | 2.1 | PSR08022960.hg.1 | PLEC |
| TC15001264.hg.1 | 3.63 | PSR15011658.hg.1 | ZFP106 |
| TC15001264.hg.1 | 2.99 | JUC15006257.hg.1 | ZFP106 |
| TC16002037.hg.1 | 3.63 | JUC16013222.hg.1 | CLEC18C |
| TC16002037.hg.1 | 2.68 | JUC16013218.hg.1 | CLEC18C |
| TC16002037.hg.1 | -2.15 | PSR16008327.hg.1 | CLEC18C |
| TC16002037.hg.1 | -2.67 | PSR16008351.hg.1 | CLEC18C |
| TC19000037.hg.1 | 3.63 | JUC19000290.hg.1 | NDUFS7 |
| TC19000037.hg.1 | 2.66 | JUC19000286.hg.1 | NDUFS7 |
| TC19000037.hg.1 | 2.02 | PSR19000501.hg.1 | NDUFS7 |
| TC6_mcf_hap5000 | 3.63 | PSR6_mcf_hap5000 | HLA-H |
| TC6_mcf_hap5000 | 2.85 | PSR6_mcf_hap5000 | HLA-H |
| TC6_mcf_hap5000 | 2.14 | PSR6_mcf_hap5000 | HLA-H |
| TC6_mcf_hap5000 | -2.51 | JUC6_mcf_hap5001 | HLA-H |
| TC01000129.hg.1 | 3.62 | JUC01001110.hg.1 | PGD |
| TC01000129.hg.1 | 2.46 | PSR01002045.hg.1 | PGD |
| TC01000129.hg.1 | 2.2 | PSR01002066.hg.1 | PGD |
| TC01003627.hg.1 | 3.62 | JUC01029099.hg.1 | TRMT1L |
| TC01003627.hg.1 | 2.34 | PSR01055795.hg.1 | TRMT1L |
| TC01003627.hg.1 | 2.18 | JUC01029093.hg.1 | TRMT1L |
| TC01006288.hg.1 | 3.62 | PSR01003380.hg.1 | CLCNKB |

| | | | |
|-----------------|--------|------------------|-------------|
| TC01006288.hg.1 | 2.64 | JUC01039312.hg.1 | CLCNKB |
| TC01006288.hg.1 | -2.64 | JUC01039296.hg.1 | CLCNKB |
| TC02000078.hg.1 | 3.62 | JUC02000555.hg.1 | LPIN1 |
| TC02000078.hg.1 | 3.53 | PSR02000954.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.98 | PSR02000950.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.78 | PSR02001001.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.68 | PSR02000969.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.64 | PSR02000976.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.64 | PSR02000987.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.63 | PSR02000951.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.62 | PSR02000952.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.6 | PSR02000955.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.54 | JUC02000533.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.46 | JUC02000530.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.41 | PSR02000960.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.39 | PSR02000985.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.37 | PSR02000961.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.34 | PSR02000963.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.15 | PSR02000990.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.09 | PSR02000996.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.07 | PSR02000944.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.02 | PSR02000973.hg.1 | LPIN1 |
| TC02000078.hg.1 | 2.02 | JUC02000561.hg.1 | LPIN1 |
| TC02000078.hg.1 | -2.07 | JUC02000545.hg.1 | LPIN1 |
| TC02000078.hg.1 | -2.38 | JUC02000536.hg.1 | LPIN1 |
| TC02000078.hg.1 | -2.52 | JUC02000528.hg.1 | LPIN1 |
| TC02000078.hg.1 | -11.68 | JUC02000563.hg.1 | LPIN1 |
| TC04000041.hg.1 | 3.62 | JUC04000431.hg.1 | GRK4 |
| TC04000041.hg.1 | -2.1 | PSR04001077.hg.1 | GRK4 |
| TC15001761.hg.1 | 3.62 | JUC15009439.hg.1 | HOMER2 |
| TC15001761.hg.1 | 2.72 | JUC15009430.hg.1 | HOMER2 |
| TC15001761.hg.1 | 2.38 | JUC15009435.hg.1 | HOMER2 |
| TC15001761.hg.1 | -2.48 | JUC15009433.hg.1 | HOMER2 |
| TC15001761.hg.1 | -2.57 | PSR15017264.hg.1 | HOMER2 |
| TC15001761.hg.1 | -2.58 | JUC15009437.hg.1 | HOMER2 |
| TC15001761.hg.1 | -3.22 | JUC15009438.hg.1 | HOMER2 |
| TC15001761.hg.1 | -3.73 | PSR15017266.hg.1 | HOMER2 |
| TC15001761.hg.1 | -4.16 | PSR15017269.hg.1 | HOMER2 |
| TC15001761.hg.1 | -5.07 | PSR15017273.hg.1 | HOMER2 |
| TC01001173.hg.1 | 3.61 | JUC01009904.hg.1 | HIST2H4B, H |
| TC01001173.hg.1 | 3.42 | PSR01017984.hg.1 | HIST2H4B, H |
| TC01001173.hg.1 | 2.25 | PSR01017987.hg.1 | HIST2H4B, H |
| TC01002293.hg.1 | 3.61 | PSR01035071.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.87 | PSR01034993.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.62 | JUC01018814.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.54 | PSR01035048.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.54 | JUC01018846.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.52 | PSR01035039.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.43 | PSR01034981.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.41 | PSR01035050.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.39 | PSR01034972.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.38 | JUC01018776.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.29 | PSR01035082.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.23 | PSR01035025.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.16 | JUC01018838.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.15 | PSR01035073.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.13 | PSR01035002.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.13 | PSR01035027.hg.1 | UBR4 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01002293.hg.1 | 2.12 | PSR01035015.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.1 | JUC01018788.hg.1 | UBR4 |
| TC01002293.hg.1 | 2.06 | PSR01034986.hg.1 | UBR4 |
| TC03001815.hg.1 | 3.61 | JUC03016310.hg.1 | LOC1005072 |
| TC03001815.hg.1 | 2.65 | PSR03032883.hg.1 | LOC1005072 |
| TC05001109.hg.1 | 3.61 | JUC05008208.hg.1 | SLC6A3 |
| TC05001109.hg.1 | 2.04 | PSR05016152.hg.1 | SLC6A3 |
| TC05001109.hg.1 | -2.05 | JUC05008216.hg.1 | SLC6A3 |
| TC07000696.hg.1 | 3.61 | JUC07005156.hg.1 | CBLL1, LOC1 |
| TC07000696.hg.1 | 2.62 | PSR07010934.hg.1 | CBLL1, LOC1 |
| TC07000696.hg.1 | 2.07 | JUC07005142.hg.1 | CBLL1, LOC1 |
| TC0X000112.hg.1 | 3.61 | JUC0X000797.hg.1 | SAT1 |
| TC0X000112.hg.1 | 2.83 | JUC0X000796.hg.1 | SAT1 |
| TC0X000112.hg.1 | -2.04 | PSR0X001474.hg.1 | SAT1 |
| TC0X000112.hg.1 | -2.22 | PSR0X001476.hg.1 | SAT1 |
| TC0X000641.hg.1 | 3.61 | JUC0X004247.hg.1 | FAM122C |
| TC0X000641.hg.1 | 2.56 | JUC0X004256.hg.1 | FAM122C |
| TC0X000641.hg.1 | 2.33 | PSR0X008429.hg.1 | FAM122C |
| TC0X000641.hg.1 | 2.16 | PSR0X008428.hg.1 | FAM122C |
| TC0X000641.hg.1 | 2.06 | JUC0X004248.hg.1 | FAM122C |
| TC13000109.hg.1 | 3.61 | JUC13000687.hg.1 | FRY |
| TC13000109.hg.1 | 2.73 | PSR13001137.hg.1 | FRY |
| TC13000109.hg.1 | -2.22 | PSR13001074.hg.1 | FRY |
| TC13000109.hg.1 | -2.26 | PSR13001131.hg.1 | FRY |
| TC13000109.hg.1 | -2.44 | JUC13000705.hg.1 | FRY |
| TC13000109.hg.1 | -2.49 | JUC13000701.hg.1 | FRY |
| TC13000109.hg.1 | -2.53 | PSR13001065.hg.1 | FRY |
| TC13000109.hg.1 | -2.55 | JUC13000686.hg.1 | FRY |
| TC13000109.hg.1 | -3.24 | JUC13000690.hg.1 | FRY |
| TC13000109.hg.1 | -3.44 | JUC13000679.hg.1 | FRY |
| TC13000109.hg.1 | -3.51 | JUC13000667.hg.1 | FRY |
| TC16000056.hg.1 | 3.61 | JUC16000499.hg.1 | SYNGR3 |
| TC16000056.hg.1 | -4.54 | PSR16001180.hg.1 | SYNGR3 |
| TC02001246.hg.1 | 3.6 | JUC02010370.hg.1 | CPS1 |
| TC02001246.hg.1 | 3.04 | PSR02019231.hg.1 | CPS1 |
| TC02001246.hg.1 | 2.54 | JUC02010347.hg.1 | CPS1 |
| TC02001246.hg.1 | 2.14 | JUC02010330.hg.1 | CPS1 |
| TC02001246.hg.1 | 2.11 | PSR02019194.hg.1 | CPS1 |
| TC02001246.hg.1 | -2.27 | JUC02010369.hg.1 | CPS1 |
| TC02001246.hg.1 | -2.36 | JUC02010327.hg.1 | CPS1 |
| TC04000948.hg.1 | 3.6 | PSR04012752.hg.1 | ZNF721, ABC |
| TC04000948.hg.1 | 2.36 | JUC04006811.hg.1 | ZNF721, ABC |
| TC04000948.hg.1 | 2.23 | PSR04012748.hg.1 | ZNF721, ABC |
| TC04000948.hg.1 | 2.15 | PSR04012754.hg.1 | ZNF721, ABC |
| TC08001286.hg.1 | 3.6 | PSR08016562.hg.1 | MYBL1 |
| TC08001286.hg.1 | 2.93 | PSR08016535.hg.1 | MYBL1 |
| TC08001286.hg.1 | 2.82 | PSR08016558.hg.1 | MYBL1 |
| TC08001286.hg.1 | 2.81 | PSR08016554.hg.1 | MYBL1 |
| TC08001286.hg.1 | 2.72 | PSR08016560.hg.1 | MYBL1 |
| TC08001286.hg.1 | 2.58 | JUC08008530.hg.1 | MYBL1 |
| TC08001286.hg.1 | -2.34 | JUC08008535.hg.1 | MYBL1 |
| TC16000445.hg.1 | 3.6 | JUC16003456.hg.1 | CHD9 |
| TC16000445.hg.1 | 2.08 | JUC16003431.hg.1 | CHD9 |
| TC16000445.hg.1 | -2.49 | PSR16006170.hg.1 | CHD9 |
| TC16000445.hg.1 | -2.51 | JUC16003451.hg.1 | CHD9 |
| TC16000445.hg.1 | -2.9 | JUC16003447.hg.1 | CHD9 |
| TC16000445.hg.1 | -3.66 | JUC16003442.hg.1 | CHD9 |
| TC16000445.hg.1 | -4.84 | JUC16003458.hg.1 | CHD9 |

| | | | |
|-----------------|--------|------------------|--------|
| TC01002639.hg.1 | 3.59 | JUC01022070.hg.1 | BEND5 |
| TC01002639.hg.1 | 2.7 | PSR01041291.hg.1 | BEND5 |
| TC01002639.hg.1 | 2.19 | PSR01041295.hg.1 | BEND5 |
| TC01002639.hg.1 | 2.12 | PSR01041303.hg.1 | BEND5 |
| TC01002639.hg.1 | -2.54 | JUC01022065.hg.1 | BEND5 |
| TC01002639.hg.1 | -3.02 | PSR01041293.hg.1 | BEND5 |
| TC01002883.hg.1 | 3.59 | JUC01024177.hg.1 | ABCA4 |
| TC01002883.hg.1 | 3.33 | JUC01024141.hg.1 | ABCA4 |
| TC01002883.hg.1 | 3.29 | JUC01024187.hg.1 | ABCA4 |
| TC01002883.hg.1 | 3.25 | PSR01045022.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.96 | JUC01024174.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.79 | PSR01045035.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.69 | PSR01044989.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.62 | PSR01045029.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.58 | PSR01045017.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.58 | JUC01024142.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.58 | JUC01024191.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.55 | PSR01044990.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.46 | JUC01024175.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.45 | PSR01045024.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.43 | PSR01044985.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.42 | JUC01024144.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.31 | PSR01044973.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.16 | PSR01045033.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.14 | JUC01024152.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.12 | PSR01045020.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.12 | JUC01024150.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.09 | PSR01044998.hg.1 | ABCA4 |
| TC01002883.hg.1 | 2.09 | JUC01024192.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.05 | PSR01045003.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.08 | PSR01044996.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.08 | JUC01024146.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.24 | JUC01024185.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.36 | JUC01024181.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.53 | PSR01045014.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.72 | JUC01024164.hg.1 | ABCA4 |
| TC01002883.hg.1 | -2.97 | PSR01044981.hg.1 | ABCA4 |
| TC01002883.hg.1 | -3.2 | JUC01024193.hg.1 | ABCA4 |
| TC01002883.hg.1 | -3.53 | JUC01024145.hg.1 | ABCA4 |
| TC01002883.hg.1 | -3.83 | PSR01045005.hg.1 | ABCA4 |
| TC01002883.hg.1 | -4.06 | PSR01045015.hg.1 | ABCA4 |
| TC01002883.hg.1 | -5.89 | JUC01024178.hg.1 | ABCA4 |
| TC01002883.hg.1 | -6.41 | PSR01045000.hg.1 | ABCA4 |
| TC01002883.hg.1 | -6.91 | JUC01024197.hg.1 | ABCA4 |
| TC01002883.hg.1 | -7.41 | PSR01045018.hg.1 | ABCA4 |
| TC01002883.hg.1 | -11.98 | JUC01024182.hg.1 | ABCA4 |
| TC07001363.hg.1 | 3.59 | JUC07010388.hg.1 | TNS3 |
| TC07001363.hg.1 | 3.4 | JUC07010417.hg.1 | TNS3 |
| TC07001363.hg.1 | 2.51 | PSR07021314.hg.1 | TNS3 |
| TC07001363.hg.1 | 2.46 | JUC07010401.hg.1 | TNS3 |
| TC07001363.hg.1 | -2.6 | JUC07010383.hg.1 | TNS3 |
| TC11001217.hg.1 | 3.59 | JUC11008285.hg.1 | GLB1L2 |
| TC11001217.hg.1 | 2.5 | JUC11008267.hg.1 | GLB1L2 |
| TC11001217.hg.1 | 2.37 | JUC11008274.hg.1 | GLB1L2 |
| TC11001217.hg.1 | 2.17 | PSR11015286.hg.1 | GLB1L2 |
| TC11001217.hg.1 | -2.82 | JUC11008288.hg.1 | GLB1L2 |
| TC14002301.hg.1 | 3.59 | JUC14011754.hg.1 | PTGR2 |
| TC14002301.hg.1 | 2.24 | PSR14005548.hg.1 | PTGR2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC14002301.hg.1 | 2.16 | PSR14005567.hg.1 | PTGR2 |
| TC15001668.hg.1 | 3.59 | PSR15016276.hg.1 | SNUPN |
| TC15001668.hg.1 | 3.19 | PSR15016280.hg.1 | SNUPN |
| TC15001668.hg.1 | 3.13 | PSR15016277.hg.1 | SNUPN |
| TC15001668.hg.1 | 2.82 | JUC15008844.hg.1 | SNUPN |
| TC15001668.hg.1 | 2.45 | PSR15016273.hg.1 | SNUPN |
| TC15001668.hg.1 | 2.15 | JUC15008843.hg.1 | SNUPN |
| TC19001104.hg.1 | 3.59 | JUC19008640.hg.1 | GPR108 |
| TC19001104.hg.1 | -2.01 | PSR19015212.hg.1 | GPR108 |
| TC20000169.hg.1 | 3.59 | JUC20001144.hg.1 | GINS1 |
| TC20000169.hg.1 | 2.05 | PSR20002126.hg.1 | GINS1 |
| TC20000169.hg.1 | 2.02 | PSR20002131.hg.1 | GINS1 |
| TC04000320.hg.1 | 3.58 | JUC04002207.hg.1 | TMEM165 |
| TC04000320.hg.1 | -2.04 | JUC04002196.hg.1 | TMEM165 |
| TC04000320.hg.1 | -2.09 | JUC04002195.hg.1 | TMEM165 |
| TC04000320.hg.1 | -2.15 | PSR04004509.hg.1 | TMEM165 |
| TC04000320.hg.1 | -2.25 | PSR04004513.hg.1 | TMEM165 |
| TC04000320.hg.1 | -2.38 | PSR04004511.hg.1 | TMEM165 |
| TC07000764.hg.1 | 3.58 | JUC07005694.hg.1 | SND1, SND1- |
| TC07000764.hg.1 | 2.44 | PSR07012103.hg.1 | SND1, SND1- |
| TC07000764.hg.1 | 2.34 | JUC07005710.hg.1 | SND1, SND1- |
| TC07000764.hg.1 | 2.06 | JUC07005701.hg.1 | SND1, SND1- |
| TC15001278.hg.1 | 3.58 | JUC15006477.hg.1 | TP53BP1 |
| TC15001278.hg.1 | 2.6 | PSR15011884.hg.1 | TP53BP1 |
| TC15001278.hg.1 | -2 | JUC15006471.hg.1 | TP53BP1 |
| TC15001278.hg.1 | -2.03 | JUC15006468.hg.1 | TP53BP1 |
| TC15001278.hg.1 | -2.34 | JUC15006462.hg.1 | TP53BP1 |
| TC15001278.hg.1 | -2.44 | JUC15006454.hg.1 | TP53BP1 |
| TC15001278.hg.1 | -2.51 | PSR15011903.hg.1 | TP53BP1 |
| TC15001278.hg.1 | -2.98 | PSR15011893.hg.1 | TP53BP1 |
| TC19001625.hg.1 | 3.58 | JUC19012672.hg.1 | EML2 |
| TC19001625.hg.1 | 2.23 | JUC19012658.hg.1 | EML2 |
| TC19001625.hg.1 | -2.1 | PSR19022221.hg.1 | EML2 |
| TC19001625.hg.1 | -2.17 | JUC19012679.hg.1 | EML2 |
| TC21000239.hg.1 | 3.58 | JUC21001448.hg.1 | LOC1005057. |
| TC21000239.hg.1 | 3.13 | PSR21002801.hg.1 | LOC1005057. |
| TC01000950.hg.1 | 3.57 | PSR01015009.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.97 | JUC01007929.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.93 | JUC01007931.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.9 | JUC01007943.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.83 | PSR01015016.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.83 | JUC01007924.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.75 | PSR01014998.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.6 | JUC01007921.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.32 | PSR01015029.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.21 | PSR01015011.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.14 | PSR01015006.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.13 | PSR01015039.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.12 | PSR01015014.hg.1 | AMPD2 |
| TC01000950.hg.1 | 2.07 | PSR01015007.hg.1 | AMPD2 |
| TC01000950.hg.1 | -2.18 | JUC01007939.hg.1 | AMPD2 |
| TC06002025.hg.1 | 3.57 | JUC06012499.hg.1 | LAMA4 |
| TC06002025.hg.1 | 2.87 | PSR06025430.hg.1 | LAMA4 |
| TC06002025.hg.1 | 2.85 | PSR06025418.hg.1 | LAMA4 |
| TC06002025.hg.1 | 2.77 | PSR06025379.hg.1 | LAMA4 |
| TC06002025.hg.1 | 2.42 | PSR06025402.hg.1 | LAMA4 |
| TC06002025.hg.1 | 2.28 | PSR06025427.hg.1 | LAMA4 |
| TC06002025.hg.1 | 2.16 | PSR06025425.hg.1 | LAMA4 |

| | | | |
|-----------------|-------|------------------|------------|
| TC06002025.hg.1 | -2.01 | PSR06025374.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.02 | PSR06025351.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.06 | PSR06025397.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.1 | PSR06025354.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.1 | PSR06025393.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.1 | JUC06012508.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.13 | PSR06025408.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.14 | PSR06025355.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.19 | JUC06012507.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.2 | JUC06012535.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.25 | JUC06012520.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.26 | JUC06012543.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.3 | PSR06025347.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.33 | JUC06012512.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.41 | JUC06012542.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.48 | PSR06025383.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.64 | JUC06012522.hg.1 | LAMA4 |
| TC06002025.hg.1 | -2.99 | PSR06025384.hg.1 | LAMA4 |
| TC06002025.hg.1 | -3.13 | PSR06025382.hg.1 | LAMA4 |
| TC06002025.hg.1 | -3.38 | PSR06025380.hg.1 | LAMA4 |
| TC06002025.hg.1 | -3.74 | JUC06012504.hg.1 | LAMA4 |
| TC06002025.hg.1 | -3.89 | JUC06012502.hg.1 | LAMA4 |
| TC07000190.hg.1 | 3.57 | JUC07001400.hg.1 | |
| TC07000190.hg.1 | 3.47 | JUC07001401.hg.1 | |
| TC07000190.hg.1 | 2.45 | PSR07002950.hg.1 | |
| TC0X000387.hg.1 | 3.57 | JUC0X002609.hg.1 | TAF1 |
| TC0X000387.hg.1 | 3.36 | JUC0X002602.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2.31 | PSR0X005201.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2.22 | JUC0X002566.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2.21 | JUC0X002557.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2.14 | PSR0X005199.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2.1 | JUC0X002575.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2.04 | PSR0X005205.hg.1 | TAF1 |
| TC0X000387.hg.1 | 2 | JUC0X002589.hg.1 | TAF1 |
| TC11001911.hg.1 | 3.57 | JUC11011946.hg.1 | SF1 |
| TC11001911.hg.1 | 2.18 | PSR11022684.hg.1 | SF1 |
| TC11001911.hg.1 | -4.37 | JUC11011948.hg.1 | SF1 |
| TC15001092.hg.1 | 3.57 | JUC15005281.hg.1 | HERC2, LOC |
| TC15001092.hg.1 | 2.21 | JUC15005256.hg.1 | HERC2, LOC |
| TC15001092.hg.1 | -2.01 | JUC15005221.hg.1 | HERC2, LOC |
| TC15001092.hg.1 | -2.14 | PSR15009918.hg.1 | HERC2, LOC |
| TC15001092.hg.1 | -2.19 | JUC15005234.hg.1 | HERC2, LOC |
| TC15001092.hg.1 | -2.34 | JUC15005248.hg.1 | HERC2, LOC |
| TC15001092.hg.1 | -2.75 | JUC15005232.hg.1 | HERC2, LOC |
| TC19000755.hg.1 | 3.57 | JUC19006271.hg.1 | MYH14 |
| TC19000755.hg.1 | 3.17 | JUC19006259.hg.1 | MYH14 |
| TC19000755.hg.1 | -2.16 | JUC19006268.hg.1 | MYH14 |
| TC19000755.hg.1 | -2.2 | JUC19006234.hg.1 | MYH14 |
| TC19000755.hg.1 | -2.43 | JUC19006282.hg.1 | MYH14 |
| TC19000755.hg.1 | -2.51 | JUC19006244.hg.1 | MYH14 |
| TC19000755.hg.1 | -2.99 | JUC19006235.hg.1 | MYH14 |
| TC19000755.hg.1 | -3.5 | JUC19006243.hg.1 | MYH14 |
| TC19000755.hg.1 | -4.02 | JUC19006264.hg.1 | MYH14 |
| TC19000755.hg.1 | -4.24 | PSR19010685.hg.1 | MYH14 |
| TC19000755.hg.1 | -4.75 | JUC19006251.hg.1 | MYH14 |
| TC19000755.hg.1 | -7.66 | JUC19006278.hg.1 | MYH14 |
| TC03000611.hg.1 | 3.56 | JUC03005490.hg.1 | PLA1A |
| TC03000611.hg.1 | 2.64 | JUC03005496.hg.1 | PLA1A |

| | | | |
|-----------------|-------|------------------|----------|
| TC03000611.hg.1 | -2.03 | PSR03011039.hg.1 | PLA1A |
| TC09001466.hg.1 | 3.56 | JUC09009788.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.55 | PSR09018117.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.52 | PSR09018131.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.5 | PSR09018112.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.41 | JUC09009784.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.37 | PSR09018100.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.2 | PSR09018115.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 3.15 | PSR09018130.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.92 | PSR09018106.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.79 | JUC09009768.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.73 | PSR09018113.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.67 | PSR09018102.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.62 | PSR09018108.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.52 | JUC09009782.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.47 | PSR09018103.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.3 | PSR09018111.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.29 | JUC09009764.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.24 | PSR09018110.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2.05 | PSR09018099.hg.1 | EPB41L4B |
| TC09001466.hg.1 | 2 | JUC09009785.hg.1 | EPB41L4B |
| TC09001466.hg.1 | -2.3 | PSR09018127.hg.1 | EPB41L4B |
| TC09001466.hg.1 | -3.31 | PSR09018116.hg.1 | EPB41L4B |
| TC09001466.hg.1 | -3.38 | PSR09018122.hg.1 | EPB41L4B |
| TC09001466.hg.1 | -4.5 | PSR09018118.hg.1 | EPB41L4B |
| TC10000112.hg.1 | 3.56 | JUC10000639.hg.1 | HSPA14 |
| TC10000112.hg.1 | 2.74 | JUC10000654.hg.1 | HSPA14 |
| TC10000112.hg.1 | 2.63 | JUC10000650.hg.1 | HSPA14 |
| TC10000112.hg.1 | 2.49 | PSR10001192.hg.1 | HSPA14 |
| TC10000112.hg.1 | -2.03 | PSR10001209.hg.1 | HSPA14 |
| TC12001106.hg.1 | 3.56 | JUC12008016.hg.1 | FOXMI |
| TC12001106.hg.1 | 2.74 | JUC12008022.hg.1 | FOXMI |
| TC12001106.hg.1 | 2.33 | JUC12008009.hg.1 | FOXMI |
| TC12001106.hg.1 | 2.27 | JUC12008017.hg.1 | FOXMI |
| TC12001106.hg.1 | 2.21 | JUC12008015.hg.1 | FOXMI |
| TC12001106.hg.1 | 2.19 | JUC12008020.hg.1 | FOXMI |
| TC12001106.hg.1 | -3.05 | PSR12014592.hg.1 | FOXMI |
| TC02001121.hg.1 | 3.54 | PSR02016956.hg.1 | NAB1 |
| TC02001121.hg.1 | 3.05 | JUC02009088.hg.1 | NAB1 |
| TC0X001405.hg.1 | 3.54 | JUC0X009554.hg.1 | ZNF75D |
| TC0X001405.hg.1 | 2.64 | PSR0X018699.hg.1 | ZNF75D |
| TC0X001405.hg.1 | 2.53 | JUC0X009556.hg.1 | ZNF75D |
| TC0X001405.hg.1 | 2.01 | PSR0X018690.hg.1 | ZNF75D |
| TC0X001405.hg.1 | -2.07 | PSR0X018696.hg.1 | ZNF75D |
| TC0X001405.hg.1 | -2.15 | JUC0X009555.hg.1 | ZNF75D |
| TC0X001405.hg.1 | -2.7 | JUC0X009551.hg.1 | ZNF75D |
| TC0X001405.hg.1 | -3.02 | JUC0X009550.hg.1 | ZNF75D |
| TC0X002313.hg.1 | 3.54 | JUC0X012948.hg.1 | CA5B |
| TC0X002313.hg.1 | 3.29 | JUC0X012949.hg.1 | CA5B |
| TC0X002313.hg.1 | 2.89 | JUC0X012960.hg.1 | CA5B |
| TC0X002313.hg.1 | 2.54 | PSR0X000991.hg.1 | CA5B |
| TC0X002313.hg.1 | 2.13 | PSR0X000975.hg.1 | CA5B |
| TC0X002313.hg.1 | 2.11 | JUC0X012950.hg.1 | CA5B |
| TC0X002313.hg.1 | 2.07 | PSR0X000974.hg.1 | CA5B |
| TC0X002313.hg.1 | -2.07 | PSR0X000986.hg.1 | CA5B |
| TC0X002313.hg.1 | -2.3 | JUC0X012955.hg.1 | CA5B |
| TC0X002313.hg.1 | -2.38 | JUC0X012951.hg.1 | CA5B |
| TC0X002313.hg.1 | -2.41 | JUC0X012958.hg.1 | CA5B |

| | | | |
|-----------------|-------|------------------|-----------|
| TC0X002313.hg.1 | -3.83 | JUC0X012956.hg.1 | CA5B |
| TC0X002313.hg.1 | -4.46 | PSR0X000967.hg.1 | CA5B |
| TC11000979.hg.1 | 3.54 | JUC11006519.hg.1 | ACAT1 |
| TC11000979.hg.1 | 2.01 | PSR11012158.hg.1 | ACAT1 |
| TC13000135.hg.1 | 3.54 | JUC13000973.hg.1 | NHLRC3 |
| TC13000135.hg.1 | -2.51 | JUC13000964.hg.1 | NHLRC3 |
| TC13000135.hg.1 | -2.71 | PSR13001565.hg.1 | NHLRC3 |
| TC15000638.hg.1 | 3.54 | JUC15002703.hg.1 | KIF23 |
| TC15000638.hg.1 | 2.79 | PSR15005401.hg.1 | KIF23 |
| TC15000638.hg.1 | 2.59 | JUC15002717.hg.1 | KIF23 |
| TC15000638.hg.1 | 2.39 | JUC15002711.hg.1 | KIF23 |
| TC15000638.hg.1 | 2.21 | PSR15005406.hg.1 | KIF23 |
| TC15000638.hg.1 | 2.19 | PSR15005408.hg.1 | KIF23 |
| TC15000638.hg.1 | 2 | PSR15005430.hg.1 | KIF23 |
| TC03000631.hg.1 | 3.53 | PSR03011364.hg.1 | FAM162A |
| TC03000631.hg.1 | 3.5 | PSR03011362.hg.1 | FAM162A |
| TC03000631.hg.1 | 3 | JUC03005673.hg.1 | FAM162A |
| TC03000631.hg.1 | 2.61 | JUC03005672.hg.1 | FAM162A |
| TC03000631.hg.1 | 2.51 | JUC03005669.hg.1 | FAM162A |
| TC03000631.hg.1 | 2.01 | PSR03011378.hg.1 | FAM162A |
| TC03000316.hg.1 | 3.52 | PSR03006657.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 3.21 | PSR03006660.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 3.19 | PSR03006662.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 3.06 | PSR03006658.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 2.86 | PSR03006654.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 2.85 | PSR03006659.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 2.72 | PSR03006668.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 2.71 | PSR03006666.hg.1 | MAPKAPK3 |
| TC03000316.hg.1 | 2.16 | JUC03003247.hg.1 | MAPKAPK3 |
| TC08000053.hg.1 | 3.52 | JUC08000281.hg.1 | FAM66E |
| TC08000053.hg.1 | 2.09 | PSR08000488.hg.1 | FAM66E |
| TC08000053.hg.1 | -2.15 | PSR08000491.hg.1 | FAM66E |
| TC08000053.hg.1 | -2.25 | JUC08000277.hg.1 | FAM66E |
| TC08000053.hg.1 | -2.73 | PSR08000497.hg.1 | FAM66E |
| TC0X000811.hg.1 | 3.52 | JUC0X005440.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 3.18 | PSR0X011113.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 3 | PSR0X011119.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.89 | PSR0X011126.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.34 | PSR0X011127.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.31 | PSR0X011110.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.27 | JUC0X005447.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.23 | JUC0X005438.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.21 | PSR0X011125.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2.01 | PSR0X011120.hg.1 | LOC389906 |
| TC0X000811.hg.1 | 2 | JUC0X005434.hg.1 | LOC389906 |
| TC11002138.hg.1 | 3.52 | PSR11025584.hg.1 | NARS2 |
| TC11002138.hg.1 | 2.34 | JUC11013559.hg.1 | NARS2 |
| TC11002138.hg.1 | 2.06 | PSR11025581.hg.1 | NARS2 |
| TC11002138.hg.1 | 2.05 | JUC11013554.hg.1 | NARS2 |
| TC01000548.hg.1 | 3.51 | JUC01004591.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.81 | JUC01004576.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.49 | PSR01008812.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.42 | JUC01004584.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.25 | JUC01004580.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.24 | PSR01008842.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.08 | PSR01008826.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.08 | PSR01008841.hg.1 | PTPRF |
| TC01000548.hg.1 | 2.02 | PSR01008821.hg.1 | PTPRF |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01000548.hg.1 | -2.13 | JUC01004593.hg.1 | PTPRF |
| TC01003325.hg.1 | 3.51 | JUC01027093.hg.1 | KIAA0907 |
| TC01003325.hg.1 | 2.18 | PSR01051719.hg.1 | KIAA0907 |
| TC01003325.hg.1 | 2.12 | PSR01051709.hg.1 | KIAA0907 |
| TC03003371.hg.1 | 3.51 | PSR03019262.hg.1 | FAM157A, LC |
| TC03003371.hg.1 | 2.83 | PSR03019263.hg.1 | FAM157A, LC |
| TC03003371.hg.1 | 2.57 | PSR03019264.hg.1 | FAM157A, LC |
| TC03003371.hg.1 | 2.39 | JUC03023974.hg.1 | FAM157A, LC |
| TC03003371.hg.1 | 2.38 | PSR03019265.hg.1 | FAM157A, LC |
| TC03003371.hg.1 | -2.17 | JUC03023965.hg.1 | FAM157A, LC |
| TC03003371.hg.1 | -2.4 | PSR03019267.hg.1 | FAM157A, LC |
| TC06002181.hg.1 | 3.51 | JUC06013617.hg.1 | HIVEP2 |
| TC06002181.hg.1 | 2.05 | PSR06027366.hg.1 | HIVEP2 |
| TC07003289.hg.1 | 3.51 | JUC07020312.hg.1 | ZNF655 |
| TC07003289.hg.1 | 2.07 | JUC07020324.hg.1 | ZNF655 |
| TC07003289.hg.1 | -2.69 | PSR07008928.hg.1 | ZNF655 |
| TC08000148.hg.1 | 3.51 | JUC08000778.hg.1 | INTS10 |
| TC08000148.hg.1 | 2.65 | JUC08000789.hg.1 | INTS10 |
| TC08000148.hg.1 | 2.6 | JUC08000795.hg.1 | INTS10 |
| TC08000148.hg.1 | 2.13 | PSR08001480.hg.1 | INTS10 |
| TC08000148.hg.1 | 2.03 | PSR08001439.hg.1 | INTS10 |
| TC10001498.hg.1 | 3.51 | PSR10018941.hg.1 | ACTA2 |
| TC10001498.hg.1 | 2.76 | JUC10011034.hg.1 | ACTA2 |
| TC10001498.hg.1 | 2.4 | JUC10011040.hg.1 | ACTA2 |
| TC10001498.hg.1 | 2.35 | PSR10018933.hg.1 | ACTA2 |
| TC10001498.hg.1 | -2.82 | JUC10011035.hg.1 | ACTA2 |
| TC10001498.hg.1 | -2.85 | JUC10011038.hg.1 | ACTA2 |
| TC10001498.hg.1 | -2.88 | PSR10018953.hg.1 | ACTA2 |
| TC10001498.hg.1 | -4.34 | PSR10018952.hg.1 | ACTA2 |
| TC10001498.hg.1 | -4.39 | JUC10011041.hg.1 | ACTA2 |
| TC10001498.hg.1 | -5 | PSR10018951.hg.1 | ACTA2 |
| TC11000069.hg.1 | 3.51 | PSR11001307.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 3.07 | PSR11001299.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.86 | JUC11000652.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.67 | PSR11001304.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.47 | PSR11001308.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.44 | PSR11001320.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.36 | PSR11001305.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.35 | JUC11000643.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.3 | JUC11000647.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.16 | PSR11001330.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.15 | PSR11001301.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.12 | PSR11001328.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.09 | PSR11001316.hg.1 | SLC22A18 |
| TC11000069.hg.1 | 2.03 | JUC11000657.hg.1 | SLC22A18 |
| TC12000232.hg.1 | 3.51 | JUC12001383.hg.1 | PYROXD1 |
| TC12000232.hg.1 | -2.22 | PSR12002876.hg.1 | PYROXD1 |
| TC16002044.hg.1 | 3.51 | PSR16005776.hg.1 | TP53TG3B, T |
| TC16002044.hg.1 | 2.99 | JUC16013322.hg.1 | TP53TG3B, T |
| TC16002044.hg.1 | 2.91 | JUC16013324.hg.1 | TP53TG3B, T |
| TC16002044.hg.1 | 2.73 | PSR16005780.hg.1 | TP53TG3B, T |
| TC16002044.hg.1 | 2.56 | PSR16005779.hg.1 | TP53TG3B, T |
| TC16002044.hg.1 | 2.2 | PSR16005781.hg.1 | TP53TG3B, T |
| TC20000338.hg.1 | 3.51 | JUC20002672.hg.1 | PABPC1L |
| TC20000338.hg.1 | -2.64 | PSR20004848.hg.1 | PABPC1L |
| TC22000068.hg.1 | 3.51 | JUC22000434.hg.1 | MED15 |
| TC22000068.hg.1 | 2.19 | PSR22000887.hg.1 | MED15 |
| TC22000068.hg.1 | 2 | PSR22000947.hg.1 | MED15 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC22000068.hg.1 | 2 | JUC22000399.hg.1 | MED15 |
| TC22000068.hg.1 | -2.22 | JUC22000395.hg.1 | MED15 |
| TC01003219.hg.1 | 3.5 | JUC01026303.hg.1 | SEMA6C |
| TC01003219.hg.1 | 2.5 | JUC01026301.hg.1 | SEMA6C |
| TC01003219.hg.1 | 2.27 | JUC01026306.hg.1 | SEMA6C |
| TC01003219.hg.1 | -2 | JUC01026292.hg.1 | SEMA6C |
| TC01003219.hg.1 | -2.05 | PSR01049493.hg.1 | SEMA6C |
| TC01003219.hg.1 | -2.39 | PSR01049500.hg.1 | SEMA6C |
| TC01003219.hg.1 | -2.4 | JUC01026310.hg.1 | SEMA6C |
| TC01003219.hg.1 | -2.94 | JUC01026295.hg.1 | SEMA6C |
| TC01003219.hg.1 | -3 | JUC01026293.hg.1 | SEMA6C |
| TC01006303.hg.1 | 3.5 | JUC01039692.hg.1 | GBAP1 |
| TC01006303.hg.1 | 3.14 | JUC01039685.hg.1 | GBAP1 |
| TC01006303.hg.1 | 2.78 | JUC01039688.hg.1 | GBAP1 |
| TC01006303.hg.1 | 2.11 | PSR01051231.hg.1 | GBAP1 |
| TC01006303.hg.1 | -2.04 | JUC01039681.hg.1 | GBAP1 |
| TC01006303.hg.1 | -4.25 | JUC01039697.hg.1 | GBAP1 |
| TC10001559.hg.1 | 3.5 | JUC10011592.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.99 | JUC10011581.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.6 | PSR10019791.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.51 | JUC10011591.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.36 | PSR10019811.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.35 | PSR10019810.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.17 | JUC10011596.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.16 | JUC10011582.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.11 | PSR10019808.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | 2.06 | PSR10019812.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -2.68 | JUC10011584.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -3.2 | PSR10019795.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -3.38 | PSR10019817.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -3.53 | JUC10011577.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -3.65 | PSR10019802.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -3.72 | PSR10019815.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -4.98 | PSR10019814.hg.1 | PIK3AP1 |
| TC10001559.hg.1 | -5.86 | PSR10019794.hg.1 | PIK3AP1 |
| TC02001965.hg.1 | 3.49 | PSR02031339.hg.1 | ADD2 |
| TC02001965.hg.1 | 2.37 | JUC02016369.hg.1 | ADD2 |
| TC02001965.hg.1 | -2.02 | JUC02016348.hg.1 | ADD2 |
| TC02001965.hg.1 | -2.15 | PSR02031303.hg.1 | ADD2 |
| TC06004080.hg.1 | 3.49 | JUC06021119.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.7 | PSR06004435.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.59 | JUC06021098.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.57 | JUC06021111.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.52 | JUC06021128.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.46 | PSR06004417.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.41 | PSR06004446.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.3 | JUC06021120.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.21 | PSR06004413.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.14 | JUC06021122.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.12 | PSR06004397.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.08 | PSR06004449.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2.02 | PSR06004428.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | 2 | PSR06004452.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | -2.17 | JUC06021102.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | -2.72 | JUC06021108.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | -2.72 | JUC06021112.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | -2.91 | JUC06021134.hg.1 | C4B, C4A, LC |
| TC06004080.hg.1 | -3.47 | JUC06021113.hg.1 | C4B, C4A, LC |

| | | | |
|-----------------|-------|------------------|----------|
| TC08000781.hg.1 | 3.49 | PSR08010473.hg.1 | |
| TC08000781.hg.1 | 2.08 | PSR08010485.hg.1 | |
| TC08000781.hg.1 | -4.34 | JUC08005402.hg.1 | |
| TC17000362.hg.1 | 3.49 | PSR17004523.hg.1 | NF1 |
| TC17000362.hg.1 | 2.81 | JUC17002621.hg.1 | NF1 |
| TC17000362.hg.1 | 2.56 | JUC17002589.hg.1 | NF1 |
| TC17000362.hg.1 | 2.55 | PSR17004543.hg.1 | NF1 |
| TC17000362.hg.1 | 2.43 | PSR17004574.hg.1 | NF1 |
| TC17000362.hg.1 | 2.28 | PSR17004606.hg.1 | NF1 |
| TC17000362.hg.1 | 2.26 | JUC17002599.hg.1 | NF1 |
| TC17000362.hg.1 | -2.02 | JUC17002586.hg.1 | NF1 |
| TC17000362.hg.1 | -2.15 | JUC17002559.hg.1 | NF1 |
| TC17000362.hg.1 | -2.36 | PSR17004544.hg.1 | NF1 |
| TC17000966.hg.1 | 3.49 | JUC17007257.hg.1 | VPS53 |
| TC17000966.hg.1 | -2.4 | PSR17012757.hg.1 | VPS53 |
| TC17000966.hg.1 | -2.54 | JUC17007264.hg.1 | VPS53 |
| TC17000966.hg.1 | -2.68 | PSR17012751.hg.1 | VPS53 |
| TC17000966.hg.1 | -3.33 | JUC17007258.hg.1 | VPS53 |
| TC03000866.hg.1 | 3.48 | PSR03015324.hg.1 | GFM1 |
| TC03000866.hg.1 | 3.35 | JUC03007764.hg.1 | GFM1 |
| TC03000866.hg.1 | -2.15 | JUC03007767.hg.1 | GFM1 |
| TC03000866.hg.1 | -3.57 | JUC03007766.hg.1 | GFM1 |
| TC04000012.hg.1 | 3.48 | PSR04000250.hg.1 | MYL5 |
| TC04000012.hg.1 | 3 | PSR04000229.hg.1 | MYL5 |
| TC04000012.hg.1 | 2.56 | PSR04000234.hg.1 | MYL5 |
| TC04000012.hg.1 | 2.36 | PSR04000236.hg.1 | MYL5 |
| TC04000012.hg.1 | 2.16 | PSR04000232.hg.1 | MYL5 |
| TC04000012.hg.1 | 2.14 | PSR04000242.hg.1 | MYL5 |
| TC04000012.hg.1 | 2.14 | JUC04000085.hg.1 | MYL5 |
| TC04000012.hg.1 | -2.43 | PSR04000244.hg.1 | MYL5 |
| TC05000075.hg.1 | 3.48 | JUC05000470.hg.1 | ROPN1L |
| TC05000075.hg.1 | -2.52 | PSR05000881.hg.1 | ROPN1L |
| TC05000075.hg.1 | -4.11 | JUC05000471.hg.1 | ROPN1L |
| TC05000364.hg.1 | 3.48 | PSR05005053.hg.1 | POLK |
| TC05000364.hg.1 | 2.96 | JUC05002720.hg.1 | POLK |
| TC05000364.hg.1 | 2.23 | JUC05002727.hg.1 | POLK |
| TC05000364.hg.1 | 2.19 | PSR05005074.hg.1 | POLK |
| TC05000364.hg.1 | -2.57 | JUC05002732.hg.1 | POLK |
| TC06001879.hg.1 | 3.48 | JUC06011104.hg.1 | COL12A1 |
| TC06001879.hg.1 | 3.04 | PSR06022862.hg.1 | COL12A1 |
| TC06001879.hg.1 | 2.82 | PSR06022821.hg.1 | COL12A1 |
| TC06001879.hg.1 | 2.72 | JUC06011038.hg.1 | COL12A1 |
| TC06001879.hg.1 | 2.71 | PSR06022809.hg.1 | COL12A1 |
| TC10000715.hg.1 | 3.48 | JUC10004662.hg.1 | ABCC2 |
| TC10000715.hg.1 | 3.24 | JUC10004652.hg.1 | ABCC2 |
| TC10000715.hg.1 | -2.28 | JUC10004642.hg.1 | ABCC2 |
| TC10000715.hg.1 | -2.4 | PSR10008357.hg.1 | ABCC2 |
| TC10000715.hg.1 | -2.76 | JUC10004656.hg.1 | ABCC2 |
| TC10001683.hg.1 | 3.48 | JUC10012877.hg.1 | KIAA1598 |
| TC10001683.hg.1 | 2.61 | JUC10012888.hg.1 | KIAA1598 |
| TC10001683.hg.1 | 2.29 | PSR10022195.hg.1 | KIAA1598 |
| TC10001683.hg.1 | -2.13 | JUC10012901.hg.1 | KIAA1598 |
| TC10001683.hg.1 | -2.31 | PSR10022190.hg.1 | KIAA1598 |
| TC10001683.hg.1 | -2.75 | JUC10012880.hg.1 | KIAA1598 |
| TC11000272.hg.1 | 3.48 | JUC11001862.hg.1 | LUZP2 |
| TC11000272.hg.1 | 3.05 | JUC11001851.hg.1 | LUZP2 |
| TC11000272.hg.1 | 3.03 | JUC11001857.hg.1 | LUZP2 |
| TC11000272.hg.1 | 2.78 | JUC11001853.hg.1 | LUZP2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC11000272.hg.1 | 2.12 | PSR11003605.hg.1 | LUZP2 |
| TC11000272.hg.1 | -2.02 | JUC11001859.hg.1 | LUZP2 |
| TC11000272.hg.1 | -2.05 | PSR11003594.hg.1 | LUZP2 |
| TC11000272.hg.1 | -2.15 | PSR11003596.hg.1 | LUZP2 |
| TC11000272.hg.1 | -2.37 | PSR11003611.hg.1 | LUZP2 |
| TC14000261.hg.1 | 3.48 | JUC14001263.hg.1 | C14orf28 |
| TC14000261.hg.1 | -2.21 | PSR14002782.hg.1 | C14orf28 |
| TC19001220.hg.1 | 3.48 | JUC19009926.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.77 | PSR19017147.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.67 | JUC19009940.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.66 | JUC19009951.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.61 | PSR19017185.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.56 | JUC19009910.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.33 | PSR19017140.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.33 | PSR19017146.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.08 | JUC19009917.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.05 | JUC19009918.hg.1 | CACNA1A |
| TC19001220.hg.1 | 2.04 | PSR19017173.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.01 | PSR19017169.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.01 | JUC19009934.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.06 | JUC19009929.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.06 | JUC19009938.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.17 | PSR19017177.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.32 | JUC19009914.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.48 | JUC19009959.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.65 | JUC19009930.hg.1 | CACNA1A |
| TC19001220.hg.1 | -2.66 | JUC19009945.hg.1 | CACNA1A |
| TC19001220.hg.1 | -3.28 | JUC19009942.hg.1 | CACNA1A |
| TC19001220.hg.1 | -3.56 | JUC19009958.hg.1 | CACNA1A |
| TC19001220.hg.1 | -3.82 | JUC19009931.hg.1 | CACNA1A |
| TC19001220.hg.1 | -3.95 | JUC19009915.hg.1 | CACNA1A |
| TC21000169.hg.1 | 3.48 | PSR21001603.hg.1 | ETS2 |
| TC21000169.hg.1 | 2.97 | JUC21000834.hg.1 | ETS2 |
| TC21000169.hg.1 | 2.96 | JUC21000837.hg.1 | ETS2 |
| TC21000169.hg.1 | 2.68 | JUC21000828.hg.1 | ETS2 |
| TC21000169.hg.1 | 2.23 | PSR21001611.hg.1 | ETS2 |
| TC05000799.hg.1 | 3.47 | PSR05011313.hg.1 | TCERG1 |
| TC05000799.hg.1 | 2.43 | JUC05005869.hg.1 | TCERG1 |
| TC05001297.hg.1 | 3.47 | JUC05009390.hg.1 | TTC33 |
| TC05001297.hg.1 | 2.6 | PSR05018268.hg.1 | TTC33 |
| TC05001297.hg.1 | 2 | JUC05009391.hg.1 | TTC33 |
| TC07000305.hg.1 | 3.47 | PSR07004588.hg.1 | C7orf69 |
| TC07000305.hg.1 | 2.43 | PSR07004579.hg.1 | C7orf69 |
| TC07000305.hg.1 | 2.17 | JUC07002202.hg.1 | C7orf69 |
| TC08000299.hg.1 | 3.47 | JUC08002121.hg.1 | ADAM32 |
| TC08000299.hg.1 | 3.31 | PSR08004292.hg.1 | ADAM32 |
| TC08000299.hg.1 | 2.84 | JUC08002139.hg.1 | ADAM32 |
| TC08000299.hg.1 | 2.83 | JUC08002130.hg.1 | ADAM32 |
| TC08000299.hg.1 | 2.18 | JUC08002134.hg.1 | ADAM32 |
| TC08000299.hg.1 | 2.13 | PSR08004270.hg.1 | ADAM32 |
| TC08000299.hg.1 | -2.07 | JUC08002118.hg.1 | ADAM32 |
| TC08000299.hg.1 | -2.14 | JUC08002131.hg.1 | ADAM32 |
| TC08000299.hg.1 | -2.61 | JUC08002155.hg.1 | ADAM32 |
| TC08000299.hg.1 | -2.86 | JUC08002137.hg.1 | ADAM32 |
| TC10002939.hg.1 | 3.47 | PSR10006695.hg.1 | AGAP11 |
| TC10002939.hg.1 | 3.15 | PSR10006704.hg.1 | AGAP11 |
| TC10002939.hg.1 | 3.13 | PSR10006697.hg.1 | AGAP11 |
| TC10002939.hg.1 | 2.88 | JUC10017208.hg.1 | AGAP11 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC10002939.hg.1 | 2.7 | PSR10006698.hg.1 | AGAP11 |
| TC10002939.hg.1 | 2.7 | JUC10017206.hg.1 | AGAP11 |
| TC10002939.hg.1 | 2.57 | JUC10017212.hg.1 | AGAP11 |
| TC10002939.hg.1 | 2.32 | JUC10017209.hg.1 | AGAP11 |
| TC10002939.hg.1 | 2.1 | PSR10006690.hg.1 | AGAP11 |
| TC10002939.hg.1 | 2 | PSR10006702.hg.1 | AGAP11 |
| TC10002939.hg.1 | -2.01 | PSR10006701.hg.1 | AGAP11 |
| TC10002939.hg.1 | -2.72 | JUC10017205.hg.1 | AGAP11 |
| TC10002939.hg.1 | -4.76 | JUC10017213.hg.1 | AGAP11 |
| TC10002939.hg.1 | -6.07 | PSR10006700.hg.1 | AGAP11 |
| TC12000810.hg.1 | 3.47 | JUC12005643.hg.1 | TXNRD1 |
| TC12000810.hg.1 | 2.97 | JUC12005661.hg.1 | TXNRD1 |
| TC12000810.hg.1 | 2.59 | PSR12010291.hg.1 | TXNRD1 |
| TC12000810.hg.1 | 2.49 | PSR12010286.hg.1 | TXNRD1 |
| TC12000810.hg.1 | 2.33 | PSR12010289.hg.1 | TXNRD1 |
| TC12000810.hg.1 | 2.14 | JUC12005658.hg.1 | TXNRD1 |
| TC12000810.hg.1 | 2.1 | JUC12005648.hg.1 | TXNRD1 |
| TC12000810.hg.1 | -2 | JUC12005641.hg.1 | TXNRD1 |
| TC12000810.hg.1 | -2.17 | JUC12005632.hg.1 | TXNRD1 |
| TC15001112.hg.1 | 3.47 | PSR15010146.hg.1 | |
| TC15001112.hg.1 | -3.47 | PSR15010147.hg.1 | |
| TC15001112.hg.1 | -5.67 | JUC15005377.hg.1 | |
| TC22001504.hg.1 | 3.47 | JUC22009899.hg.1 | LOC150381 |
| TC22001504.hg.1 | 2.84 | PSR22007522.hg.1 | LOC150381 |
| TC22001504.hg.1 | 2.6 | PSR22007518.hg.1 | LOC150381 |
| TC22001504.hg.1 | 2.15 | PSR22007533.hg.1 | LOC150381 |
| TC22001504.hg.1 | 2 | PSR22007520.hg.1 | LOC150381 |
| TC03001708.hg.1 | 3.47 | JUC03015385.hg.1 | SEMA5B |
| TC03001708.hg.1 | -2 | PSR03030923.hg.1 | SEMA5B |
| TC03001708.hg.1 | -3.05 | JUC03015393.hg.1 | SEMA5B |
| TC01006304.hg.1 | 3.46 | JUC01039708.hg.1 | GBA |
| TC01006304.hg.1 | 2.98 | JUC01039707.hg.1 | GBA |
| TC01006304.hg.1 | 2.59 | JUC01039700.hg.1 | GBA |
| TC01006304.hg.1 | 2.52 | PSR01051248.hg.1 | GBA |
| TC01006304.hg.1 | 2.19 | PSR01051235.hg.1 | GBA |
| TC01006304.hg.1 | -3.86 | JUC01039727.hg.1 | GBA |
| TC02004967.hg.1 | 3.46 | JUC02031741.hg.1 | APLF |
| TC02004967.hg.1 | 3.01 | JUC02031738.hg.1 | APLF |
| TC02004967.hg.1 | 2.2 | JUC02031744.hg.1 | APLF |
| TC02004967.hg.1 | 2.01 | PSR02005965.hg.1 | APLF |
| TC03001125.hg.1 | 3.46 | JUC03009761.hg.1 | SUMF1 |
| TC03001125.hg.1 | 2.73 | PSR03019414.hg.1 | SUMF1 |
| TC03001125.hg.1 | 2.4 | PSR03019426.hg.1 | SUMF1 |
| TC03001125.hg.1 | 2.38 | PSR03019433.hg.1 | SUMF1 |
| TC03001125.hg.1 | 2.29 | JUC03009767.hg.1 | SUMF1 |
| TC03001125.hg.1 | 2.01 | PSR03019447.hg.1 | SUMF1 |
| TC03001125.hg.1 | 2 | PSR03019416.hg.1 | SUMF1 |
| TC03001125.hg.1 | -2.02 | JUC03009782.hg.1 | SUMF1 |
| TC06000717.hg.1 | 3.46 | PSR06008552.hg.1 | C6orf57 |
| TC06000717.hg.1 | 2.01 | JUC06003866.hg.1 | C6orf57 |
| TC06004079.hg.1 | 3.46 | JUC06021083.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.68 | PSR06004314.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.57 | JUC06021053.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.55 | JUC06021080.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.5 | JUC06021070.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.44 | PSR06004294.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.38 | PSR06004325.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.28 | JUC06021066.hg.1 | C4B, C4A, LC |

| | | | |
|-----------------|-------|------------------|--------------|
| TC06004079.hg.1 | 2.19 | PSR06004290.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.13 | PSR06004309.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.12 | JUC06021084.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.1 | PSR06004274.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.06 | PSR06004328.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2.05 | PSR06004283.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | 2 | PSR06004305.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | -2.19 | JUC06021057.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | -2.74 | JUC06021060.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | -2.74 | JUC06021081.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | -2.94 | JUC06021091.hg.1 | C4B, C4A, LC |
| TC06004079.hg.1 | -3.5 | JUC06021061.hg.1 | C4B, C4A, LC |
| TC07003313.hg.1 | 3.46 | PSR07009399.hg.1 | PILRB |
| TC07003313.hg.1 | 2.33 | JUC07020682.hg.1 | PILRB |
| TC07003313.hg.1 | -2.45 | JUC07020690.hg.1 | PILRB |
| TC10001726.hg.1 | 3.46 | JUC10013230.hg.1 | OAT |
| TC10001726.hg.1 | -2.5 | PSR10022897.hg.1 | OAT |
| TC03001402.hg.1 | 3.45 | PSR03024883.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.77 | PSR03024854.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.66 | PSR03024856.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.61 | PSR03024894.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.59 | PSR03024855.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.34 | PSR03024858.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.26 | PSR03024884.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.12 | PSR03024881.hg.1 | LAMB2 |
| TC03001402.hg.1 | 2.09 | JUC03012342.hg.1 | LAMB2 |
| TC06001104.hg.1 | 3.45 | JUC06006463.hg.1 | ESR1 |
| TC06001104.hg.1 | 2.57 | JUC06006447.hg.1 | ESR1 |
| TC06001104.hg.1 | 2.55 | JUC06006462.hg.1 | ESR1 |
| TC06001104.hg.1 | 2.18 | PSR06013062.hg.1 | ESR1 |
| TC06001104.hg.1 | -2.1 | PSR06013076.hg.1 | ESR1 |
| TC06001104.hg.1 | -2.11 | JUC06006471.hg.1 | ESR1 |
| TC06001104.hg.1 | -2.35 | JUC06006449.hg.1 | ESR1 |
| TC06001104.hg.1 | -2.58 | JUC06006444.hg.1 | ESR1 |
| TC06001573.hg.1 | 3.45 | PSR06018782.hg.1 | PSMB8 |
| TC06001573.hg.1 | 2.72 | JUC06008951.hg.1 | PSMB8 |
| TC06001573.hg.1 | -2.75 | PSR06018775.hg.1 | PSMB8 |
| TC11002360.hg.1 | 3.45 | JUC11015111.hg.1 | SLC37A4 |
| TC11002360.hg.1 | 2.7 | PSR11028331.hg.1 | SLC37A4 |
| TC11002360.hg.1 | 2.18 | PSR11028354.hg.1 | SLC37A4 |
| TC11002360.hg.1 | 2.09 | JUC11015110.hg.1 | SLC37A4 |
| TC11002360.hg.1 | -2.15 | JUC11015118.hg.1 | SLC37A4 |
| TC15000625.hg.1 | 3.45 | JUC15002563.hg.1 | MAP2K5 |
| TC15000625.hg.1 | 2.57 | PSR15005191.hg.1 | MAP2K5 |
| TC15000625.hg.1 | -2 | PSR15005183.hg.1 | MAP2K5 |
| TC15000625.hg.1 | -2.17 | PSR15005190.hg.1 | MAP2K5 |
| TC21000222.hg.1 | 3.45 | PSR21002638.hg.1 | PFKL |
| TC21000222.hg.1 | 2.93 | PSR21002642.hg.1 | PFKL |
| TC21000222.hg.1 | 2.41 | PSR21002622.hg.1 | PFKL |
| TC21000222.hg.1 | 2.4 | PSR21002630.hg.1 | PFKL |
| TC21000222.hg.1 | 2.32 | PSR21002628.hg.1 | PFKL |
| TC21000222.hg.1 | 2.25 | PSR21002646.hg.1 | PFKL |
| TC21000222.hg.1 | 2.23 | PSR21002621.hg.1 | PFKL |
| TC21000222.hg.1 | 2.13 | PSR21002606.hg.1 | PFKL |
| TC21000222.hg.1 | 2.1 | PSR21002633.hg.1 | PFKL |
| TC21000222.hg.1 | 2.1 | PSR21002644.hg.1 | PFKL |
| TC21000222.hg.1 | 2.03 | PSR21002632.hg.1 | PFKL |
| TC21000222.hg.1 | 2.03 | JUC21001363.hg.1 | PFKL |

| | | | |
|------------------|--------|-------------------|-------------|
| TC6_apd_hap1000 | 3.45 | PSR6_apd_hap1001 | PSMB8 |
| TC6_apd_hap1000 | 2.72 | JUC6_apd_hap1000 | PSMB8 |
| TC6_apd_hap1000 | -2.75 | PSR6_apd_hap1001 | PSMB8 |
| TC6_cox_hap2000 | 3.45 | PSR6_cox_hap2003 | PSMB8 |
| TC6_cox_hap2000 | 2.72 | JUC6_cox_hap2001 | PSMB8 |
| TC6_cox_hap2000 | -2.75 | PSR6_cox_hap2003 | PSMB8 |
| TC6_dbb_hap3000 | 3.45 | PSR6_dbb_hap3003 | PSMB8 |
| TC6_dbb_hap3000 | 2.95 | JUC6_dbb_hap3001 | PSMB8 |
| TC6_dbb_hap3000 | -2.75 | PSR6_dbb_hap3003 | PSMB8 |
| TC6_mann_hap4000 | 3.45 | PSR6_mann_hap4000 | PSMB8 |
| TC6_mann_hap4000 | 2.72 | JUC6_mann_hap4000 | PSMB8 |
| TC6_mann_hap4000 | -2.75 | PSR6_mann_hap4000 | PSMB8 |
| TC6_mcf_hap5000 | 3.45 | PSR6_mcf_hap5003 | PSMB8 |
| TC6_mcf_hap5000 | 2.72 | JUC6_mcf_hap5001 | PSMB8 |
| TC6_mcf_hap5000 | -2.75 | PSR6_mcf_hap5003 | PSMB8 |
| TC6_qbl_hap6000 | 3.45 | PSR6_qbl_hap6003 | PSMB8 |
| TC6_qbl_hap6000 | 2.72 | JUC6_qbl_hap6001 | PSMB8 |
| TC6_qbl_hap6000 | -2.75 | PSR6_qbl_hap6003 | PSMB8 |
| TC03000204.hg.1 | 3.44 | JUC03002193.hg.1 | MYRIP |
| TC03000204.hg.1 | 3.01 | JUC03002191.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.72 | PSR03004082.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.67 | JUC03002177.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.63 | PSR03004074.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.51 | PSR03004065.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.34 | PSR03004064.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.22 | PSR03004069.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.21 | PSR03004067.hg.1 | MYRIP |
| TC03000204.hg.1 | 2.13 | PSR03004081.hg.1 | MYRIP |
| TC03000204.hg.1 | -2.19 | JUC03002178.hg.1 | MYRIP |
| TC03000204.hg.1 | -2.23 | PSR03004090.hg.1 | MYRIP |
| TC03000204.hg.1 | -2.68 | JUC03002179.hg.1 | MYRIP |
| TC03000204.hg.1 | -2.73 | JUC03002182.hg.1 | MYRIP |
| TC03000204.hg.1 | -2.91 | JUC03002192.hg.1 | MYRIP |
| TC10000874.hg.1 | 3.44 | JUC10005946.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | 2.81 | JUC10005953.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | 2.09 | PSR10010586.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -2.05 | PSR10010596.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -2.2 | PSR10010583.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -3.96 | PSR10010598.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -4.33 | JUC10005951.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -4.68 | JUC10005958.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -5.45 | PSR10010592.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -5.51 | PSR10010584.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -7.39 | JUC10005948.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -7.88 | PSR10010593.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -9.32 | JUC10005945.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -9.64 | PSR10010577.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -10.34 | JUC10005955.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -11.2 | JUC10005947.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -11.21 | JUC10005954.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -14.73 | PSR10010582.hg.1 | PPAPDC1A |
| TC10000874.hg.1 | -16.1 | PSR10010594.hg.1 | PPAPDC1A |
| TC20000685.hg.1 | 3.44 | JUC20004956.hg.1 | RALGAPA2 |
| TC20000685.hg.1 | 2.34 | JUC20004960.hg.1 | RALGAPA2 |
| TC20000685.hg.1 | 2.25 | PSR20009517.hg.1 | RALGAPA2 |
| TC20000685.hg.1 | 2.02 | JUC20004964.hg.1 | RALGAPA2 |
| TC20000685.hg.1 | -2.85 | JUC20004953.hg.1 | RALGAPA2 |
| TC22000856.hg.1 | 3.44 | JUC22005968.hg.1 | ARFGAP3, P/ |

| | | | |
|-----------------|-------|------------------|-------------|
| TC22000856.hg.1 | 3.26 | JUC22005961.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 3.17 | PSR22014463.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.96 | JUC22005970.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.77 | PSR22014461.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.72 | JUC22005932.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.68 | PSR22014452.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.45 | JUC22005936.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.44 | JUC22005971.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.38 | PSR22014458.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.35 | PSR22014444.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.34 | PSR22014454.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.3 | PSR22014455.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.29 | JUC22005942.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.27 | PSR22014443.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.24 | PSR22014447.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.23 | PSR22014459.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.19 | PSR22014448.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.15 | PSR22014471.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.15 | JUC22005965.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.03 | PSR22014450.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.03 | PSR22014453.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | 2.02 | JUC22005933.hg.1 | ARFGAP3, P/ |
| TC22000856.hg.1 | -2.32 | JUC22005948.hg.1 | ARFGAP3, P/ |
| TC6_dbb_hap3000 | 3.44 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 3.21 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 3.12 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 3.1 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 3.07 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.99 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.98 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.84 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.79 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.59 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.51 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.44 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.43 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.42 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.36 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.35 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.33 | JUC6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.19 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.15 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.11 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.1 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | 2.07 | PSR6_dbb_hap3000 | DDR1 |
| TC6_dbb_hap3000 | -2.38 | PSR6_dbb_hap3000 | DDR1 |
| TC01002984.hg.1 | 3.43 | PSR01046330.hg.1 | OVGP1 |
| TC01002984.hg.1 | 3.21 | JUC01024911.hg.1 | OVGP1 |
| TC01002984.hg.1 | 2.08 | JUC01024914.hg.1 | OVGP1 |
| TC02000894.hg.1 | 3.43 | JUC02007047.hg.1 | SPOPL |
| TC02000894.hg.1 | 2.5 | PSR02013269.hg.1 | SPOPL |
| TC02002573.hg.1 | 3.43 | JUC02021491.hg.1 | PRKRA |
| TC02002573.hg.1 | 2.06 | PSR02040837.hg.1 | PRKRA |
| TC03001362.hg.1 | 3.43 | JUC03011615.hg.1 | MYL3 |
| TC03001362.hg.1 | 2.49 | PSR03023330.hg.1 | MYL3 |
| TC03001362.hg.1 | -2.1 | JUC03011616.hg.1 | MYL3 |
| TC03001362.hg.1 | -2.22 | PSR03023338.hg.1 | MYL3 |
| TC03001362.hg.1 | -2.32 | JUC03011617.hg.1 | MYL3 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC03001362.hg.1 | -2.4 | PSR03023340.hg.1 | MYL3 |
| TC03001362.hg.1 | -2.75 | JUC03011610.hg.1 | MYL3 |
| TC10001006.hg.1 | 3.43 | JUC10007260.hg.1 | IL15RA |
| TC10001006.hg.1 | 2.52 | JUC10007258.hg.1 | IL15RA |
| TC10001006.hg.1 | 2.1 | JUC10007272.hg.1 | IL15RA |
| TC10001006.hg.1 | 2.01 | PSR10012560.hg.1 | IL15RA |
| TC10001006.hg.1 | -2.45 | PSR10012545.hg.1 | IL15RA |
| TC16000022.hg.1 | 3.43 | JUC16000124.hg.1 | MSLN |
| TC16000022.hg.1 | 3.06 | JUC16000125.hg.1 | MSLN |
| TC16000022.hg.1 | 2.93 | JUC16000123.hg.1 | MSLN |
| TC16000022.hg.1 | 2.73 | PSR16000516.hg.1 | MSLN |
| TC16000022.hg.1 | 2.7 | JUC16000121.hg.1 | MSLN |
| TC16000022.hg.1 | 2.67 | JUC16000112.hg.1 | MSLN |
| TC16000022.hg.1 | 2.59 | PSR16000500.hg.1 | MSLN |
| TC16000022.hg.1 | 2.44 | PSR16000497.hg.1 | MSLN |
| TC16000022.hg.1 | 2.17 | JUC16000116.hg.1 | MSLN |
| TC16000022.hg.1 | 2.09 | PSR16000503.hg.1 | MSLN |
| TC16000022.hg.1 | -4.22 | JUC16000109.hg.1 | MSLN |
| TC16000022.hg.1 | -7.94 | JUC16000110.hg.1 | MSLN |
| TC16000022.hg.1 | -8.57 | PSR16000510.hg.1 | MSLN |
| TC16000022.hg.1 | -15.82 | JUC16000115.hg.1 | MSLN |
| TC20000277.hg.1 | 3.43 | JUC20002215.hg.1 | VSTM2L |
| TC20000277.hg.1 | 3.17 | PSR20003944.hg.1 | VSTM2L |
| TC20001008.hg.1 | 3.43 | JUC20007190.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | 2.47 | JUC20007213.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | 2.04 | JUC20007149.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | 2.04 | JUC20007217.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | 2.02 | JUC20007142.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2 | PSR20013767.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.08 | PSR20013839.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.13 | JUC20007169.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.14 | PSR20013820.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.14 | PSR20013840.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.14 | JUC20007177.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.19 | PSR20013837.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.27 | JUC20007185.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.46 | PSR20013823.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.5 | JUC20007158.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.71 | PSR20013766.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.73 | PSR20013752.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.87 | JUC20007196.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -2.91 | JUC20007137.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -3.03 | PSR20013843.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -3.45 | JUC20007155.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -3.47 | PSR20013806.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -3.64 | JUC20007167.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -3.76 | PSR20013817.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -4.08 | PSR20013739.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -4.36 | JUC20007197.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -4.91 | JUC20007174.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -4.97 | JUC20007201.hg.1 | LAMA5, MIR4 |
| TC20001008.hg.1 | -6.52 | JUC20007179.hg.1 | LAMA5, MIR4 |
| TC22000911.hg.1 | 3.43 | PSR22015472.hg.1 | PLXNB2 |
| TC22000911.hg.1 | 2.84 | PSR22015474.hg.1 | PLXNB2 |
| TC22000911.hg.1 | 2.39 | PSR22015427.hg.1 | PLXNB2 |
| TC22000911.hg.1 | 2.35 | JUC22006513.hg.1 | PLXNB2 |
| TC22000911.hg.1 | 2.26 | JUC22006506.hg.1 | PLXNB2 |
| TC22000911.hg.1 | 2.16 | JUC22006507.hg.1 | PLXNB2 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC07000688.hg.1 | 3.42 | JUC07005048.hg.1 | PRKAR2B |
| TC07000688.hg.1 | 2.99 | PSR07010720.hg.1 | PRKAR2B |
| TC07000688.hg.1 | 2.86 | PSR07010726.hg.1 | PRKAR2B |
| TC07000688.hg.1 | 2.54 | JUC07005040.hg.1 | PRKAR2B |
| TC07000688.hg.1 | -2.08 | PSR07010730.hg.1 | PRKAR2B |
| TC09000593.hg.1 | 3.42 | JUC09003732.hg.1 | PAPPA |
| TC09000593.hg.1 | 2.16 | PSR09006732.hg.1 | PAPPA |
| TC09001342.hg.1 | 3.42 | PSR09016829.hg.1 | ZNF484 |
| TC09001342.hg.1 | -2.04 | JUC09009044.hg.1 | ZNF484 |
| TC12003211.hg.1 | 3.42 | JUC12019449.hg.1 | ACAD10 |
| TC12003211.hg.1 | 2.73 | PSR12011442.hg.1 | ACAD10 |
| TC12003211.hg.1 | -2.25 | PSR12011414.hg.1 | ACAD10 |
| TC12003211.hg.1 | -2.86 | PSR12011409.hg.1 | ACAD10 |
| TC13000644.hg.1 | 3.42 | JUC13004249.hg.1 | KIAA0226L |
| TC13000644.hg.1 | 2.39 | JUC13004274.hg.1 | KIAA0226L |
| TC13000644.hg.1 | 2.2 | JUC13004279.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -2.12 | PSR13007336.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -2.65 | PSR13007353.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -2.77 | PSR13007356.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -2.91 | PSR13007366.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -3.01 | JUC13004250.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -3.21 | JUC13004280.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -3.41 | JUC13004281.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -3.46 | PSR13007368.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -3.66 | JUC13004276.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -4.12 | PSR13007365.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -4.57 | JUC13004277.hg.1 | KIAA0226L |
| TC13000644.hg.1 | -4.66 | JUC13004251.hg.1 | KIAA0226L |
| TC19002697.hg.1 | 3.42 | JUC19017960.hg.1 | ALKBH6 |
| TC19002697.hg.1 | 3.22 | JUC19017957.hg.1 | ALKBH6 |
| TC19002697.hg.1 | 2.33 | JUC19017956.hg.1 | ALKBH6 |
| TC19002697.hg.1 | 2.29 | JUC19017953.hg.1 | ALKBH6 |
| TC19002697.hg.1 | 2.15 | PSR19019772.hg.1 | ALKBH6 |
| TC01001866.hg.1 | 3.41 | JUC01015701.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.71 | PSR01029088.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.63 | PSR01029069.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.46 | PSR01029036.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.36 | JUC01015670.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.17 | PSR01029042.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.12 | JUC01015676.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.11 | PSR01029073.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.08 | JUC01015692.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.03 | PSR01029043.hg.1 | ADCK3 |
| TC01001866.hg.1 | 2.03 | JUC01015679.hg.1 | ADCK3 |
| TC01001866.hg.1 | -2.4 | JUC01015693.hg.1 | ADCK3 |
| TC01001866.hg.1 | -2.42 | JUC01015703.hg.1 | ADCK3 |
| TC01001866.hg.1 | -2.67 | JUC01015698.hg.1 | ADCK3 |
| TC01001866.hg.1 | -2.72 | JUC01015702.hg.1 | ADCK3 |
| TC03000351.hg.1 | 3.41 | JUC03003735.hg.1 | CACNA1D |
| TC03000351.hg.1 | 3.04 | JUC03003774.hg.1 | CACNA1D |
| TC03000351.hg.1 | 2.86 | JUC03003784.hg.1 | CACNA1D |
| TC03000351.hg.1 | 2.64 | JUC03003744.hg.1 | CACNA1D |
| TC03000351.hg.1 | 2.34 | JUC03003741.hg.1 | CACNA1D |
| TC03000351.hg.1 | 2.33 | JUC03003787.hg.1 | CACNA1D |
| TC03000351.hg.1 | 2.16 | PSR03007717.hg.1 | CACNA1D |
| TC03000351.hg.1 | 2.08 | PSR03007715.hg.1 | CACNA1D |
| TC03000351.hg.1 | -2.06 | JUC03003750.hg.1 | CACNA1D |
| TC03000351.hg.1 | -2.28 | JUC03003749.hg.1 | CACNA1D |

| | | | |
|-----------------|--------|------------------|--------------|
| TC03000351.hg.1 | -3.12 | JUC03003761.hg.1 | CACNA1D |
| TC03001773.hg.1 | 3.41 | JUC03016017.hg.1 | TMCC1 |
| TC03001773.hg.1 | 2.51 | PSR03032191.hg.1 | TMCC1 |
| TC03001773.hg.1 | 2.36 | JUC03016014.hg.1 | TMCC1 |
| TC03001773.hg.1 | 2.15 | PSR03032195.hg.1 | TMCC1 |
| TC03001773.hg.1 | -2.25 | JUC03016001.hg.1 | TMCC1 |
| TC03001773.hg.1 | -2.68 | JUC03016005.hg.1 | TMCC1 |
| TC05001110.hg.1 | 3.41 | JUC05008235.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.61 | PSR05016179.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.49 | JUC05008236.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.29 | JUC05008225.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.28 | PSR05016182.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.26 | PSR05016200.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.24 | PSR05016175.hg.1 | LPCAT1 |
| TC05001110.hg.1 | 2.22 | PSR05016174.hg.1 | LPCAT1 |
| TC05001110.hg.1 | -2.18 | JUC05008227.hg.1 | LPCAT1 |
| TC05001110.hg.1 | -2.24 | PSR05016184.hg.1 | LPCAT1 |
| TC05001110.hg.1 | -2.43 | PSR05016187.hg.1 | LPCAT1 |
| TC05001110.hg.1 | -3.12 | JUC05008232.hg.1 | LPCAT1 |
| TC07001717.hg.1 | 3.41 | JUC07012958.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | 2.62 | JUC07012969.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | 2.46 | JUC07012948.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | 2.43 | JUC07012954.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | 2.04 | PSR07026600.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | -2.22 | JUC07012967.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | -2.27 | PSR07026591.hg.1 | DPY19L2P2 |
| TC07001717.hg.1 | -3.42 | JUC07012953.hg.1 | DPY19L2P2 |
| TC09000489.hg.1 | 3.41 | JUC09002864.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | 2.97 | PSR09005251.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | 2.55 | JUC09002853.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | -2.02 | PSR09005223.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | -2.1 | JUC09002874.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | -2.14 | JUC09002909.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | -2.25 | JUC09002884.hg.1 | C9orf174, LO |
| TC09000489.hg.1 | -2.35 | JUC09002900.hg.1 | C9orf174, LO |
| TC09001403.hg.1 | 3.41 | JUC09009362.hg.1 | TRIM14 |
| TC09001403.hg.1 | 2.48 | JUC09009372.hg.1 | TRIM14 |
| TC09001403.hg.1 | 2.1 | PSR09017458.hg.1 | TRIM14 |
| TC09001403.hg.1 | -2.02 | PSR09017448.hg.1 | TRIM14 |
| TC09001403.hg.1 | -2.26 | PSR09017464.hg.1 | TRIM14 |
| TC09001403.hg.1 | -2.72 | JUC09009368.hg.1 | TRIM14 |
| TC09001403.hg.1 | -4.24 | JUC09009374.hg.1 | TRIM14 |
| TC0Y000017.hg.1 | 3.41 | JUC0Y000103.hg.1 | ZFY |
| TC0Y000017.hg.1 | -2.09 | JUC0Y000105.hg.1 | ZFY |
| TC0Y000017.hg.1 | -2.17 | PSR0Y000215.hg.1 | ZFY |
| TC0Y000017.hg.1 | -2.21 | PSR0Y000216.hg.1 | ZFY |
| TC0Y000017.hg.1 | -2.72 | JUC0Y000106.hg.1 | ZFY |
| TC0Y000017.hg.1 | -5.61 | PSR0Y000229.hg.1 | ZFY |
| TC0Y000017.hg.1 | -5.85 | PSR0Y000230.hg.1 | ZFY |
| TC0Y000017.hg.1 | -6.41 | JUC0Y000102.hg.1 | ZFY |
| TC0Y000017.hg.1 | -6.54 | JUC0Y000109.hg.1 | ZFY |
| TC0Y000017.hg.1 | -8.2 | JUC0Y000100.hg.1 | ZFY |
| TC0Y000017.hg.1 | -18.58 | JUC0Y000101.hg.1 | ZFY |
| TC12001393.hg.1 | 3.41 | JUC12010083.hg.1 | SLC2A13 |
| TC12001393.hg.1 | 2.33 | PSR12018088.hg.1 | SLC2A13 |
| TC12001393.hg.1 | 2.12 | JUC12010085.hg.1 | SLC2A13 |
| TC14001387.hg.1 | 3.41 | JUC14007992.hg.1 | GALC |
| TC14001387.hg.1 | 2.2 | JUC14007990.hg.1 | GALC |

| | | | |
|-----------------|-------|------------------|-----------|
| TC14001387.hg.1 | 2.18 | JUC14008002.hg.1 | GALC |
| TC14001387.hg.1 | -2.08 | PSR14015658.hg.1 | GALC |
| TC14001387.hg.1 | -2.1 | JUC14008000.hg.1 | GALC |
| TC17001029.hg.1 | 3.41 | PSR17013881.hg.1 | CXCL16 |
| TC17001029.hg.1 | 2.46 | JUC17007916.hg.1 | CXCL16 |
| TC17001029.hg.1 | 2.31 | PSR17013886.hg.1 | CXCL16 |
| TC17001029.hg.1 | 2.19 | PSR17013887.hg.1 | CXCL16 |
| TC17001029.hg.1 | -2.23 | JUC17007914.hg.1 | CXCL16 |
| TC17001029.hg.1 | -2.64 | PSR17013885.hg.1 | CXCL16 |
| TC01002662.hg.1 | 3.4 | JUC01022341.hg.1 | ECHDC2 |
| TC01002662.hg.1 | 2.4 | JUC01022357.hg.1 | ECHDC2 |
| TC01002662.hg.1 | 2.33 | JUC01022351.hg.1 | ECHDC2 |
| TC01002662.hg.1 | -2.19 | PSR01041797.hg.1 | ECHDC2 |
| TC02002853.hg.1 | 3.4 | PSR02046049.hg.1 | SP110 |
| TC02002853.hg.1 | -2.85 | JUC02024119.hg.1 | SP110 |
| TC04001723.hg.1 | 3.4 | JUC04012611.hg.1 | CBR4 |
| TC04001723.hg.1 | 2.63 | PSR04023812.hg.1 | CBR4 |
| TC04001723.hg.1 | 2.42 | JUC04012612.hg.1 | CBR4 |
| TC04001723.hg.1 | -2.17 | PSR04023815.hg.1 | CBR4 |
| TC07001654.hg.1 | 3.4 | PSR07025380.hg.1 | MCM7 |
| TC07001654.hg.1 | 2.81 | PSR07025376.hg.1 | MCM7 |
| TC07001654.hg.1 | 2.25 | JUC07012499.hg.1 | MCM7 |
| TC07001654.hg.1 | -2.33 | JUC07012511.hg.1 | MCM7 |
| TC07001654.hg.1 | -2.68 | JUC07012514.hg.1 | MCM7 |
| TC14001253.hg.1 | 3.4 | PSR14014237.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | 2.66 | JUC14007190.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | 2.6 | PSR14014238.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | 2.58 | JUC14007193.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | 2.54 | PSR14014236.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | 2.5 | JUC14007189.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | 2.12 | PSR14014235.hg.1 | ZFP36L1 |
| TC14001253.hg.1 | -2.02 | JUC14007194.hg.1 | ZFP36L1 |
| TC17000146.hg.1 | 3.4 | JUC17001184.hg.1 | USP43 |
| TC17000146.hg.1 | 3.05 | JUC17001194.hg.1 | USP43 |
| TC17000146.hg.1 | 2.3 | PSR17002013.hg.1 | USP43 |
| TC01000367.hg.1 | 3.39 | JUC01002944.hg.1 | FAM76A |
| TC01000367.hg.1 | 2.37 | PSR01005664.hg.1 | FAM76A |
| TC0X001165.hg.1 | 3.39 | JUC0X007942.hg.1 | ZDHHC15 |
| TC0X001165.hg.1 | 2.47 | JUC0X007937.hg.1 | ZDHHC15 |
| TC0X001165.hg.1 | -2.32 | PSR0X015736.hg.1 | ZDHHC15 |
| TC15001338.hg.1 | 3.39 | PSR15012850.hg.1 | SHC4 |
| TC15001338.hg.1 | 2.56 | PSR15012835.hg.1 | SHC4 |
| TC15001338.hg.1 | 2.02 | JUC15006846.hg.1 | SHC4 |
| TC02001935.hg.1 | 3.38 | JUC02016184.hg.1 | LOC644838 |
| TC02001935.hg.1 | 2.86 | PSR02030722.hg.1 | LOC644838 |
| TC03000336.hg.1 | 3.38 | JUC03003559.hg.1 | STAB1 |
| TC03000336.hg.1 | 2.78 | JUC03003563.hg.1 | STAB1 |
| TC03000336.hg.1 | 2.74 | JUC03003567.hg.1 | STAB1 |
| TC03000336.hg.1 | 2.16 | PSR03007401.hg.1 | STAB1 |
| TC03000336.hg.1 | 2.01 | PSR03007393.hg.1 | STAB1 |
| TC03001145.hg.1 | 3.38 | PSR03019627.hg.1 | OXTR |
| TC03001145.hg.1 | 3.19 | PSR03019628.hg.1 | OXTR |
| TC03001145.hg.1 | -2.25 | PSR03019632.hg.1 | OXTR |
| TC03001145.hg.1 | -2.31 | JUC03009898.hg.1 | OXTR |
| TC05001883.hg.1 | 3.38 | JUC05013261.hg.1 | FGF1 |
| TC05001883.hg.1 | 3.12 | JUC05013267.hg.1 | FGF1 |
| TC05001883.hg.1 | 2.92 | PSR05026024.hg.1 | FGF1 |
| TC05001883.hg.1 | 2.39 | PSR05026021.hg.1 | FGF1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC05001883.hg.1 | 2.37 | PSR05026020.hg.1 | FGF1 |
| TC05001883.hg.1 | 2.37 | PSR05026028.hg.1 | FGF1 |
| TC05001883.hg.1 | 2.17 | PSR05026029.hg.1 | FGF1 |
| TC05001883.hg.1 | -3.75 | JUC05013259.hg.1 | FGF1 |
| TC06001895.hg.1 | 3.38 | JUC06011187.hg.1 | PHIP |
| TC06001895.hg.1 | 3.17 | JUC06011184.hg.1 | PHIP |
| TC06001895.hg.1 | 2.86 | PSR06023011.hg.1 | PHIP |
| TC06001895.hg.1 | 2.53 | JUC06011188.hg.1 | PHIP |
| TC06001895.hg.1 | 2.39 | JUC06011163.hg.1 | PHIP |
| TC06001895.hg.1 | 2.37 | JUC06011168.hg.1 | PHIP |
| TC06001895.hg.1 | 2.2 | PSR06023051.hg.1 | PHIP |
| TC06001895.hg.1 | 2.09 | PSR06022999.hg.1 | PHIP |
| TC06001895.hg.1 | 2.09 | PSR06023047.hg.1 | PHIP |
| TC06001895.hg.1 | -2.31 | JUC06011162.hg.1 | PHIP |
| TC06001895.hg.1 | -3.27 | JUC06011201.hg.1 | PHIP |
| TC12003224.hg.1 | 3.38 | JUC12019702.hg.1 | C1S |
| TC12003224.hg.1 | 2.09 | JUC12019681.hg.1 | C1S |
| TC12003224.hg.1 | -2.12 | PSR12001403.hg.1 | C1S |
| TC12001425.hg.1 | 3.38 | JUC12010273.hg.1 | SCAF11 |
| TC12001425.hg.1 | 3.12 | JUC12010271.hg.1 | SCAF11 |
| TC12001425.hg.1 | 2.81 | JUC12010272.hg.1 | SCAF11 |
| TC12001425.hg.1 | 2.29 | JUC12010267.hg.1 | SCAF11 |
| TC12001425.hg.1 | 2.12 | JUC12010263.hg.1 | SCAF11 |
| TC12001425.hg.1 | 2 | PSR12018412.hg.1 | SCAF11 |
| TC12001425.hg.1 | -2.2 | JUC12010269.hg.1 | SCAF11 |
| TC02000057.hg.1 | 3.37 | PSR02000759.hg.1 | RRM2 |
| TC02000057.hg.1 | 2.85 | PSR02000732.hg.1 | RRM2 |
| TC02000057.hg.1 | 2.69 | JUC02000407.hg.1 | RRM2 |
| TC02000057.hg.1 | 2.28 | PSR02000746.hg.1 | RRM2 |
| TC02000057.hg.1 | -2.19 | JUC02000408.hg.1 | RRM2 |
| TC02000057.hg.1 | -3.46 | JUC02000412.hg.1 | RRM2 |
| TC02001022.hg.1 | 3.37 | JUC02008090.hg.1 | DYNC112 |
| TC02001022.hg.1 | 2.25 | PSR02015123.hg.1 | DYNC112 |
| TC02002377.hg.1 | 3.37 | PSR02037540.hg.1 | DARS |
| TC02002377.hg.1 | 2.74 | PSR02037533.hg.1 | DARS |
| TC02002377.hg.1 | 2.63 | JUC02019460.hg.1 | DARS |
| TC02002377.hg.1 | 2.28 | PSR02037539.hg.1 | DARS |
| TC02002377.hg.1 | 2.17 | PSR02037526.hg.1 | DARS |
| TC06001128.hg.1 | 3.37 | PSR06013405.hg.1 | SYNJ2 |
| TC06001128.hg.1 | 3.27 | JUC06006593.hg.1 | SYNJ2 |
| TC06001128.hg.1 | 2.96 | JUC06006602.hg.1 | SYNJ2 |
| TC06001128.hg.1 | 2.58 | PSR06013408.hg.1 | SYNJ2 |
| TC06001128.hg.1 | 2.44 | PSR06013445.hg.1 | SYNJ2 |
| TC06001128.hg.1 | 2.17 | PSR06013424.hg.1 | SYNJ2 |
| TC06001128.hg.1 | 2.1 | PSR06013447.hg.1 | SYNJ2 |
| TC06001128.hg.1 | -2.05 | JUC06006612.hg.1 | SYNJ2 |
| TC06001128.hg.1 | -2.32 | JUC06006610.hg.1 | SYNJ2 |
| TC06001128.hg.1 | -2.35 | JUC06006591.hg.1 | SYNJ2 |
| TC06001128.hg.1 | -2.67 | JUC06006598.hg.1 | SYNJ2 |
| TC06001128.hg.1 | -3.06 | JUC06006585.hg.1 | SYNJ2 |
| TC07000877.hg.1 | 3.37 | JUC07006588.hg.1 | TBXAS1 |
| TC07000877.hg.1 | 2.33 | JUC07006597.hg.1 | TBXAS1 |
| TC07000877.hg.1 | 2.28 | JUC07006567.hg.1 | TBXAS1 |
| TC07000877.hg.1 | 2.04 | PSR07013672.hg.1 | TBXAS1 |
| TC07000877.hg.1 | -2.41 | JUC07006596.hg.1 | TBXAS1 |
| TC07000877.hg.1 | -2.63 | PSR07013703.hg.1 | TBXAS1 |
| TC07000877.hg.1 | -3.97 | JUC07006584.hg.1 | TBXAS1 |
| TC10000876.hg.1 | 3.37 | JUC10005977.hg.1 | WDR11, LOC |

| | | | |
|-----------------|-------|------------------|------------|
| TC10000876.hg.1 | 2.02 | PSR10010609.hg.1 | WDR11, LOC |
| TC11001812.hg.1 | 3.37 | JUC11011169.hg.1 | LPXN |
| TC11001812.hg.1 | 2.88 | PSR11020949.hg.1 | LPXN |
| TC11001812.hg.1 | 2.77 | PSR11020950.hg.1 | LPXN |
| TC11001812.hg.1 | 2.26 | PSR11020942.hg.1 | LPXN |
| TC11001812.hg.1 | 2.08 | JUC11011176.hg.1 | LPXN |
| TC13000411.hg.1 | 3.37 | PSR13004492.hg.1 | ATP11A |
| TC13000411.hg.1 | 3.16 | JUC13002718.hg.1 | ATP11A |
| TC13000411.hg.1 | 3.01 | PSR13004453.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.75 | JUC13002730.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.44 | JUC13002719.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.43 | PSR13004477.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.35 | PSR13004455.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.34 | PSR13004482.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.32 | PSR13004451.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.27 | JUC13002701.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.26 | PSR13004508.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.2 | PSR13004487.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.17 | JUC13002708.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.12 | JUC13002715.hg.1 | ATP11A |
| TC13000411.hg.1 | 2.11 | PSR13004502.hg.1 | ATP11A |
| TC14000794.hg.1 | 3.37 | PSR14008566.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.59 | PSR14008561.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.47 | PSR14008560.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.35 | PSR14008587.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.23 | PSR14008563.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.15 | JUC14004372.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.14 | JUC14004373.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.07 | PSR14008567.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | 2.07 | JUC14004371.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | -2.16 | JUC14004360.hg.1 | TNFAIP2 |
| TC14000794.hg.1 | -2.3 | JUC14004374.hg.1 | TNFAIP2 |
| TC01001755.hg.1 | 3.36 | JUC01014837.hg.1 | HHAT |
| TC01001755.hg.1 | 2.01 | PSR01027556.hg.1 | HHAT |
| TC01001755.hg.1 | -2.14 | JUC01014818.hg.1 | HHAT |
| TC01001755.hg.1 | -2.3 | PSR01027539.hg.1 | HHAT |
| TC02000432.hg.1 | 3.36 | JUC02003410.hg.1 | DYSF |
| TC02000432.hg.1 | 2.73 | JUC02003416.hg.1 | DYSF |
| TC02000432.hg.1 | 2.55 | JUC02003426.hg.1 | DYSF |
| TC02000432.hg.1 | 2.39 | JUC02003372.hg.1 | DYSF |
| TC02000432.hg.1 | 2.29 | JUC02003393.hg.1 | DYSF |
| TC02000432.hg.1 | 2.28 | JUC02003361.hg.1 | DYSF |
| TC02000432.hg.1 | 2.19 | JUC02003391.hg.1 | DYSF |
| TC02000432.hg.1 | 2.17 | JUC02003385.hg.1 | DYSF |
| TC02000432.hg.1 | 2.13 | JUC02003392.hg.1 | DYSF |
| TC02000432.hg.1 | 2.1 | PSR02006601.hg.1 | DYSF |
| TC02000432.hg.1 | 2.02 | PSR02006570.hg.1 | DYSF |
| TC02000432.hg.1 | 2 | JUC02003364.hg.1 | DYSF |
| TC02000432.hg.1 | -2.15 | PSR02006597.hg.1 | DYSF |
| TC02000432.hg.1 | -2.16 | JUC02003419.hg.1 | DYSF |
| TC02000432.hg.1 | -2.22 | JUC02003386.hg.1 | DYSF |
| TC02000432.hg.1 | -2.26 | PSR02006562.hg.1 | DYSF |
| TC02000432.hg.1 | -2.29 | JUC02003428.hg.1 | DYSF |
| TC02000432.hg.1 | -2.3 | PSR02006565.hg.1 | DYSF |
| TC02000432.hg.1 | -2.4 | PSR02006618.hg.1 | DYSF |
| TC02000432.hg.1 | -2.44 | PSR02006620.hg.1 | DYSF |
| TC02000432.hg.1 | -2.44 | JUC02003368.hg.1 | DYSF |
| TC02000432.hg.1 | -2.48 | PSR02006631.hg.1 | DYSF |

| | | | |
|-----------------|-------|------------------|------------|
| TC02000432.hg.1 | -2.49 | PSR02006599.hg.1 | DYSF |
| TC02000432.hg.1 | -2.56 | PSR02006561.hg.1 | DYSF |
| TC02000432.hg.1 | -2.56 | PSR02006585.hg.1 | DYSF |
| TC02000432.hg.1 | -2.67 | PSR02006612.hg.1 | DYSF |
| TC02000432.hg.1 | -2.68 | JUC02003369.hg.1 | DYSF |
| TC02000432.hg.1 | -2.69 | PSR02006593.hg.1 | DYSF |
| TC02000432.hg.1 | -2.7 | PSR02006611.hg.1 | DYSF |
| TC02000432.hg.1 | -2.73 | JUC02003403.hg.1 | DYSF |
| TC02000432.hg.1 | -2.74 | JUC02003394.hg.1 | DYSF |
| TC02000432.hg.1 | -2.75 | JUC02003415.hg.1 | DYSF |
| TC02000432.hg.1 | -2.78 | JUC02003380.hg.1 | DYSF |
| TC02000432.hg.1 | -2.88 | PSR02006616.hg.1 | DYSF |
| TC02000432.hg.1 | -3.07 | JUC02003360.hg.1 | DYSF |
| TC02000432.hg.1 | -3.44 | JUC02003379.hg.1 | DYSF |
| TC02000432.hg.1 | -3.57 | JUC02003397.hg.1 | DYSF |
| TC02000432.hg.1 | -3.73 | PSR02006600.hg.1 | DYSF |
| TC02000432.hg.1 | -4.62 | JUC02003383.hg.1 | DYSF |
| TC02000432.hg.1 | -4.98 | PSR02006607.hg.1 | DYSF |
| TC02000432.hg.1 | -5.2 | PSR02006609.hg.1 | DYSF |
| TC02000432.hg.1 | -7.04 | JUC02003376.hg.1 | DYSF |
| TC08000119.hg.1 | 3.36 | JUC08000553.hg.1 | TUSC3 |
| TC08000119.hg.1 | 2.93 | PSR08001057.hg.1 | TUSC3 |
| TC08000119.hg.1 | 2.58 | JUC08000567.hg.1 | TUSC3 |
| TC08000119.hg.1 | 2.3 | PSR08001050.hg.1 | TUSC3 |
| TC08000119.hg.1 | 2.04 | PSR08001048.hg.1 | TUSC3 |
| TC08000119.hg.1 | -2.1 | PSR08001079.hg.1 | TUSC3 |
| TC08000119.hg.1 | -2.6 | JUC08000570.hg.1 | TUSC3 |
| TC09001345.hg.1 | 3.36 | PSR09016848.hg.1 | NINJ1 |
| TC09001345.hg.1 | 3.36 | PSR09016857.hg.1 | NINJ1 |
| TC09001345.hg.1 | 3.2 | PSR09016851.hg.1 | NINJ1 |
| TC09001345.hg.1 | 2.63 | JUC09009051.hg.1 | NINJ1 |
| TC09001345.hg.1 | 2.35 | JUC09009054.hg.1 | NINJ1 |
| TC09001345.hg.1 | 2.28 | JUC09009056.hg.1 | NINJ1 |
| TC09001345.hg.1 | 2.09 | JUC09009052.hg.1 | NINJ1 |
| TC19001913.hg.1 | 3.36 | JUC19014668.hg.1 | |
| TC19001913.hg.1 | 2.84 | PSR19025917.hg.1 | |
| TC19001913.hg.1 | 2 | JUC19014667.hg.1 | |
| TC01002627.hg.1 | 3.35 | JUC01021996.hg.1 | PDZK1IP1 |
| TC01002627.hg.1 | 2.69 | JUC01021995.hg.1 | PDZK1IP1 |
| TC01002627.hg.1 | 2.05 | PSR01041120.hg.1 | PDZK1IP1 |
| TC01003887.hg.1 | 3.35 | JUC01031048.hg.1 | LBR |
| TC01003887.hg.1 | 2.7 | JUC01031036.hg.1 | LBR |
| TC01003887.hg.1 | 2.09 | JUC01031038.hg.1 | LBR |
| TC01003887.hg.1 | -2 | JUC01031047.hg.1 | LBR |
| TC01003887.hg.1 | -2.13 | PSR01059228.hg.1 | LBR |
| TC01003887.hg.1 | -2.38 | PSR01059225.hg.1 | LBR |
| TC01003887.hg.1 | -2.4 | PSR01059226.hg.1 | LBR |
| TC01003887.hg.1 | -2.58 | PSR01059224.hg.1 | LBR |
| TC01003887.hg.1 | -2.97 | PSR01059221.hg.1 | LBR |
| TC01003887.hg.1 | -3.82 | JUC01031044.hg.1 | LBR |
| TC01006385.hg.1 | 3.35 | JUC01046486.hg.1 | ACBD6 |
| TC01006385.hg.1 | 2.15 | PSR01055365.hg.1 | ACBD6 |
| TC01006385.hg.1 | 2 | PSR01055363.hg.1 | ACBD6 |
| TC01006385.hg.1 | -2.14 | PSR01055356.hg.1 | ACBD6 |
| TC02001013.hg.1 | 3.35 | PSR02014955.hg.1 | LOC1005056 |
| TC02001013.hg.1 | 2.75 | JUC02007986.hg.1 | LOC1005056 |
| TC02001013.hg.1 | 2.11 | PSR02014952.hg.1 | LOC1005056 |
| TC02001013.hg.1 | 2.04 | PSR02014957.hg.1 | LOC1005056 |

| | | | |
|-----------------|-------|------------------|----------|
| TC03001422.hg.1 | 3.35 | JUC03012554.hg.1 | MON1A |
| TC03001422.hg.1 | -2.67 | PSR03025530.hg.1 | MON1A |
| TC03001796.hg.1 | 3.35 | JUC03016141.hg.1 | TOPBP1 |
| TC03001796.hg.1 | 2.1 | PSR03032568.hg.1 | TOPBP1 |
| TC05001731.hg.1 | 3.35 | JUC05012055.hg.1 | ZNF608 |
| TC05001731.hg.1 | -2.31 | PSR05023316.hg.1 | ZNF608 |
| TC11001938.hg.1 | 3.35 | JUC11012268.hg.1 | MAP3K11 |
| TC11001938.hg.1 | 2.45 | PSR11023237.hg.1 | MAP3K11 |
| TC12000187.hg.1 | 3.35 | PSR12002355.hg.1 | KIAA1467 |
| TC12000187.hg.1 | 2.08 | PSR12002348.hg.1 | KIAA1467 |
| TC12000187.hg.1 | -3.11 | JUC12001092.hg.1 | KIAA1467 |
| TC12000187.hg.1 | -3.14 | JUC12001085.hg.1 | KIAA1467 |
| TC01000902.hg.1 | 3.34 | JUC01007509.hg.1 | CDC14A |
| TC01000902.hg.1 | -2.08 | PSR01014234.hg.1 | CDC14A |
| TC01000902.hg.1 | -2.21 | PSR01014198.hg.1 | CDC14A |
| TC01000902.hg.1 | -2.32 | PSR01014213.hg.1 | CDC14A |
| TC02000611.hg.1 | 3.34 | JUC02005079.hg.1 | NPAS2 |
| TC02000611.hg.1 | 2.43 | JUC02005097.hg.1 | NPAS2 |
| TC02000611.hg.1 | 2.08 | PSR02009641.hg.1 | NPAS2 |
| TC02002292.hg.1 | 3.34 | PSR02036866.hg.1 | HS6ST1 |
| TC02002292.hg.1 | 3 | PSR02036875.hg.1 | HS6ST1 |
| TC02002292.hg.1 | 2.85 | JUC02019120.hg.1 | HS6ST1 |
| TC02002292.hg.1 | 2.5 | PSR02036872.hg.1 | HS6ST1 |
| TC02002292.hg.1 | 2.37 | PSR02036865.hg.1 | HS6ST1 |
| TC03000241.hg.1 | 3.34 | JUC03002472.hg.1 | ZNF501 |
| TC03000241.hg.1 | 2.07 | PSR03004856.hg.1 | ZNF501 |
| TC03000241.hg.1 | 2.07 | PSR03004868.hg.1 | ZNF501 |
| TC07000453.hg.1 | 3.34 | JUC07002963.hg.1 | LAT2 |
| TC07000453.hg.1 | 2.09 | PSR07006138.hg.1 | LAT2 |
| TC07000453.hg.1 | -2.23 | PSR07006142.hg.1 | LAT2 |
| TC07000453.hg.1 | -3.28 | JUC07002975.hg.1 | LAT2 |
| TC07000668.hg.1 | 3.34 | JUC07004829.hg.1 | LRRC17 |
| TC07000668.hg.1 | 2.41 | JUC07004827.hg.1 | LRRC17 |
| TC07000668.hg.1 | -2.13 | PSR07010375.hg.1 | LRRC17 |
| TC07000668.hg.1 | -2.33 | PSR07010376.hg.1 | LRRC17 |
| TC0X000264.hg.1 | 3.34 | JUC0X001794.hg.1 | CCDC120 |
| TC0X000264.hg.1 | 2.48 | PSR0X003427.hg.1 | CCDC120 |
| TC10001363.hg.1 | 3.34 | PSR10017254.hg.1 | NPFFR1 |
| TC10001363.hg.1 | 3.06 | JUC10010062.hg.1 | NPFFR1 |
| TC12000309.hg.1 | 3.34 | JUC12001943.hg.1 | LRRK2 |
| TC12000309.hg.1 | 2.6 | JUC12001904.hg.1 | LRRK2 |
| TC12000309.hg.1 | 2.41 | JUC12001919.hg.1 | LRRK2 |
| TC12000309.hg.1 | 2.34 | JUC12001935.hg.1 | LRRK2 |
| TC12000309.hg.1 | -2.13 | PSR12003726.hg.1 | LRRK2 |
| TC12000309.hg.1 | -2.3 | JUC12001913.hg.1 | LRRK2 |
| TC12000309.hg.1 | -2.41 | JUC12001953.hg.1 | LRRK2 |
| TC17000161.hg.1 | 3.34 | JUC17001377.hg.1 | CDRT15P1 |
| TC17000161.hg.1 | -2.01 | JUC17001378.hg.1 | CDRT15P1 |
| TC17000161.hg.1 | -2.14 | PSR17002274.hg.1 | CDRT15P1 |
| TC20000048.hg.1 | 3.34 | PSR20000781.hg.1 | SMOX |
| TC20000048.hg.1 | 3.02 | PSR20000796.hg.1 | SMOX |
| TC20000048.hg.1 | 2.89 | JUC20000368.hg.1 | SMOX |
| TC20000048.hg.1 | 2.75 | JUC20000369.hg.1 | SMOX |
| TC20000048.hg.1 | 2.74 | PSR20000798.hg.1 | SMOX |
| TC20000048.hg.1 | 2.63 | PSR20000782.hg.1 | SMOX |
| TC20000048.hg.1 | 2.56 | JUC20000386.hg.1 | SMOX |
| TC20000048.hg.1 | 2.55 | PSR20000794.hg.1 | SMOX |
| TC20000048.hg.1 | 2.32 | PSR20000779.hg.1 | SMOX |

| | | | |
|-----------------|-------|------------------|-------------|
| TC20000048.hg.1 | 2.28 | PSR20000778.hg.1 | SMOX |
| TC20000048.hg.1 | 2.27 | PSR20000785.hg.1 | SMOX |
| TC20000048.hg.1 | 2.23 | PSR20000780.hg.1 | SMOX |
| TC20000048.hg.1 | -2.39 | JUC20000377.hg.1 | SMOX |
| TC22000342.hg.1 | 3.34 | JUC22002481.hg.1 | MEI1 |
| TC22000342.hg.1 | 2.88 | JUC22002456.hg.1 | MEI1 |
| TC22000342.hg.1 | 2.02 | PSR22006600.hg.1 | MEI1 |
| TC22000342.hg.1 | -2.28 | PSR22006649.hg.1 | MEI1 |
| TC22000342.hg.1 | -2.28 | JUC22002483.hg.1 | MEI1 |
| TC22000798.hg.1 | 3.34 | PSR22013562.hg.1 | NPTXR |
| TC22000798.hg.1 | 2.51 | JUC22005588.hg.1 | NPTXR |
| TC22000798.hg.1 | 2.18 | PSR22013561.hg.1 | NPTXR |
| TC02001309.hg.1 | 3.33 | JUC02010833.hg.1 | STK36 |
| TC02001309.hg.1 | 2.97 | JUC02010816.hg.1 | STK36 |
| TC02001309.hg.1 | 2.28 | JUC02010834.hg.1 | STK36 |
| TC02001309.hg.1 | -2.37 | PSR02020179.hg.1 | STK36 |
| TC02001309.hg.1 | -2.39 | JUC02010836.hg.1 | STK36 |
| TC02001758.hg.1 | 3.33 | JUC02014838.hg.1 | DHX57 |
| TC02001758.hg.1 | 2.93 | JUC02014833.hg.1 | DHX57 |
| TC02001758.hg.1 | 2.6 | JUC02014841.hg.1 | DHX57 |
| TC02001758.hg.1 | 2.41 | JUC02014828.hg.1 | DHX57 |
| TC02001758.hg.1 | 2.09 | JUC02014830.hg.1 | DHX57 |
| TC02001758.hg.1 | -2.15 | PSR02028355.hg.1 | DHX57 |
| TC02001758.hg.1 | -3.76 | JUC02014839.hg.1 | DHX57 |
| TC02002848.hg.1 | 3.33 | JUC02024034.hg.1 | TRIP12 |
| TC02002848.hg.1 | 2.1 | PSR02045946.hg.1 | TRIP12 |
| TC02002848.hg.1 | 2.05 | PSR02046020.hg.1 | TRIP12 |
| TC02002848.hg.1 | -2.67 | JUC02024036.hg.1 | TRIP12 |
| TC03000282.hg.1 | 3.33 | PSR03005678.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 3.12 | JUC03002869.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2.6 | PSR03005664.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2.37 | JUC03002879.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2.36 | JUC03002862.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2.33 | JUC03002882.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2.31 | PSR03005674.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2.11 | JUC03002877.hg.1 | TREX1, ATRI |
| TC03000282.hg.1 | 2 | PSR03005675.hg.1 | TREX1, ATRI |
| TC04000447.hg.1 | 3.33 | PSR04006416.hg.1 | PRDM8 |
| TC04000447.hg.1 | 3.25 | JUC04003263.hg.1 | PRDM8 |
| TC04000447.hg.1 | 3.11 | JUC04003270.hg.1 | PRDM8 |
| TC04000447.hg.1 | 2.64 | JUC04003268.hg.1 | PRDM8 |
| TC04000447.hg.1 | 2.59 | PSR04006407.hg.1 | PRDM8 |
| TC04000447.hg.1 | 2.45 | PSR04006411.hg.1 | PRDM8 |
| TC04000447.hg.1 | 2.2 | PSR04006428.hg.1 | PRDM8 |
| TC08002616.hg.1 | 3.33 | PSR08017432.hg.1 | MRPS28 |
| TC08002616.hg.1 | 2.57 | JUC08015255.hg.1 | MRPS28 |
| TC09001012.hg.1 | 3.33 | JUC09007229.hg.1 | AQP3 |
| TC09001012.hg.1 | 3.12 | JUC09007233.hg.1 | AQP3 |
| TC09001012.hg.1 | -2.99 | PSR09013299.hg.1 | AQP3 |
| TC10000039.hg.1 | 3.33 | JUC10000177.hg.1 | AKR1E2 |
| TC10000039.hg.1 | -2.02 | PSR10000315.hg.1 | AKR1E2 |
| TC10000039.hg.1 | -2.27 | PSR10000304.hg.1 | AKR1E2 |
| TC10000039.hg.1 | -2.61 | JUC10000181.hg.1 | AKR1E2 |
| TC10000039.hg.1 | -2.75 | JUC10000171.hg.1 | AKR1E2 |
| TC10000039.hg.1 | -4.21 | JUC10000168.hg.1 | AKR1E2 |
| TC10000181.hg.1 | 3.33 | JUC10001176.hg.1 | APBB1IP |
| TC10000181.hg.1 | 3.18 | JUC10001175.hg.1 | APBB1IP |
| TC10000181.hg.1 | 2.14 | PSR10002163.hg.1 | APBB1IP |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10000181.hg.1 | -2.05 | PSR10002177.hg.1 | APBB1IP |
| TC10000181.hg.1 | -2.11 | JUC10001179.hg.1 | APBB1IP |
| TC10000181.hg.1 | -2.15 | PSR10002173.hg.1 | APBB1IP |
| TC10000181.hg.1 | -2.18 | JUC10001182.hg.1 | APBB1IP |
| TC11003444.hg.1 | 3.33 | JUC11018963.hg.1 | DNHD1 |
| TC11003444.hg.1 | 3.14 | JUC11018991.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.47 | JUC11018996.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.46 | JUC11018969.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.42 | PSR11001936.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.31 | PSR11001955.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.3 | JUC11018992.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.19 | JUC11018972.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.12 | PSR11001967.hg.1 | DNHD1 |
| TC11003444.hg.1 | 2.04 | JUC11019010.hg.1 | DNHD1 |
| TC11003444.hg.1 | -2.17 | PSR11001895.hg.1 | DNHD1 |
| TC11003444.hg.1 | -2.33 | JUC11018967.hg.1 | DNHD1 |
| TC11003444.hg.1 | -2.34 | PSR11001928.hg.1 | DNHD1 |
| TC14001446.hg.1 | 3.33 | JUC14008334.hg.1 | ATXN3 |
| TC14001446.hg.1 | 3.11 | JUC14008339.hg.1 | ATXN3 |
| TC14001446.hg.1 | 3.02 | JUC14008350.hg.1 | ATXN3 |
| TC14001446.hg.1 | 2.89 | JUC14008383.hg.1 | ATXN3 |
| TC14001446.hg.1 | 2.86 | JUC14008372.hg.1 | ATXN3 |
| TC14001446.hg.1 | 2.21 | JUC14008345.hg.1 | ATXN3 |
| TC14001446.hg.1 | 2.2 | JUC14008342.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.02 | PSR14016185.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.02 | PSR14016214.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.08 | JUC14008327.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.09 | PSR14016232.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.15 | JUC14008356.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.21 | PSR14016213.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.41 | JUC14008373.hg.1 | ATXN3 |
| TC14001446.hg.1 | -2.72 | JUC14008377.hg.1 | ATXN3 |
| TC19000662.hg.1 | 3.33 | PSR19009274.hg.1 | HIF3A |
| TC19000662.hg.1 | 2.78 | PSR19009241.hg.1 | HIF3A |
| TC19000662.hg.1 | 2.15 | JUC19005494.hg.1 | HIF3A |
| TC19000662.hg.1 | -2.3 | JUC19005507.hg.1 | HIF3A |
| TC19000662.hg.1 | -2.41 | JUC19005498.hg.1 | HIF3A |
| TC19000662.hg.1 | -2.81 | PSR19009236.hg.1 | HIF3A |
| TC6_apd_hap1000 | 3.33 | JUC6_apd_hap1000 | HLA-DRB1, F |
| TC6_apd_hap1000 | -3.53 | PSR6_apd_hap1001 | HLA-DRB1, F |
| TC03001732.hg.1 | 3.32 | JUC03015677.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.66 | PSR03031516.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.51 | PSR03031494.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.48 | PSR03031520.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.47 | PSR03031495.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.36 | PSR03031492.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.32 | JUC03015678.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.14 | PSR03031482.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.06 | PSR03031508.hg.1 | SLC41A3 |
| TC03001732.hg.1 | 2.03 | PSR03031515.hg.1 | SLC41A3 |
| TC04001504.hg.1 | 3.32 | JUC04011205.hg.1 | PDE5A |
| TC04001504.hg.1 | 2.95 | JUC04011207.hg.1 | PDE5A |
| TC04001504.hg.1 | 2.1 | PSR04021330.hg.1 | PDE5A |
| TC04001504.hg.1 | 2.06 | PSR04021302.hg.1 | PDE5A |
| TC04001504.hg.1 | 2.04 | JUC04011203.hg.1 | PDE5A |
| TC04001504.hg.1 | -2.14 | JUC04011217.hg.1 | PDE5A |
| TC06004066.hg.1 | 3.32 | PSR06002626.hg.1 | HLA-H |
| TC06004066.hg.1 | 2.89 | PSR06002632.hg.1 | HLA-H |

| | | | |
|-----------------|-------|------------------|--------------|
| TC06004066.hg.1 | 2.24 | PSR06002623.hg.1 | HLA-H |
| TC06004066.hg.1 | 2.21 | JUC06020844.hg.1 | HLA-H |
| TC08001400.hg.1 | 3.32 | PSR08018143.hg.1 | NBN |
| TC08001400.hg.1 | -2.38 | JUC08009238.hg.1 | NBN |
| TC08001400.hg.1 | -2.49 | JUC08009252.hg.1 | NBN |
| TC08001400.hg.1 | -2.97 | JUC08009230.hg.1 | NBN |
| TC09001434.hg.1 | 3.32 | JUC09009638.hg.1 | ABCA1 |
| TC09001434.hg.1 | 2.92 | JUC09009616.hg.1 | ABCA1 |
| TC09001434.hg.1 | 2.27 | PSR09017895.hg.1 | ABCA1 |
| TC09001434.hg.1 | 2.05 | PSR09017851.hg.1 | ABCA1 |
| TC09001434.hg.1 | 2.05 | JUC09009607.hg.1 | ABCA1 |
| TC09001434.hg.1 | -2.13 | PSR09017842.hg.1 | ABCA1 |
| TC09001434.hg.1 | -2.19 | JUC09009640.hg.1 | ABCA1 |
| TC0X000425.hg.1 | 3.32 | PSR0X005622.hg.1 | PGK1, LOC10 |
| TC0X000425.hg.1 | 2.87 | PSR0X005619.hg.1 | PGK1, LOC10 |
| TC0X000425.hg.1 | 2.68 | JUC0X002787.hg.1 | PGK1, LOC10 |
| TC0X000425.hg.1 | 2.2 | PSR0X005623.hg.1 | PGK1, LOC10 |
| TC0X000425.hg.1 | -2.02 | PSR0X005656.hg.1 | PGK1, LOC10 |
| TC0X000425.hg.1 | -2.12 | PSR0X005655.hg.1 | PGK1, LOC10 |
| TC0X000425.hg.1 | -2.94 | PSR0X005646.hg.1 | PGK1, LOC10 |
| TC0X000744.hg.1 | 3.32 | JUC0X004879.hg.1 | ZNF185 |
| TC0X000744.hg.1 | -2.08 | PSR0X009656.hg.1 | ZNF185 |
| TC0X000744.hg.1 | -2.11 | JUC0X004865.hg.1 | ZNF185 |
| TC0X000744.hg.1 | -2.12 | PSR0X009643.hg.1 | ZNF185 |
| TC0X000744.hg.1 | -2.2 | JUC0X004869.hg.1 | ZNF185 |
| TC0X000744.hg.1 | -2.4 | PSR0X009655.hg.1 | ZNF185 |
| TC0X000744.hg.1 | -3.3 | JUC0X004899.hg.1 | ZNF185 |
| TC10000896.hg.1 | 3.32 | JUC10006405.hg.1 | ACADSB |
| TC10000896.hg.1 | 2.44 | JUC10006408.hg.1 | ACADSB |
| TC10000896.hg.1 | 2.21 | PSR10010979.hg.1 | ACADSB |
| TC10000896.hg.1 | 2.18 | PSR10010984.hg.1 | ACADSB |
| TC10000896.hg.1 | 2 | JUC10006402.hg.1 | ACADSB |
| TC12000264.hg.1 | 3.32 | JUC12001593.hg.1 | ARNTL2 |
| TC12000264.hg.1 | 2.29 | PSR12003196.hg.1 | ARNTL2 |
| TC12000264.hg.1 | 2.07 | JUC12001588.hg.1 | ARNTL2 |
| TC12000264.hg.1 | -2.08 | JUC12001594.hg.1 | ARNTL2 |
| TC12000264.hg.1 | -2.11 | PSR12003198.hg.1 | ARNTL2 |
| TC12000264.hg.1 | -2.43 | JUC12001584.hg.1 | ARNTL2 |
| TC12001272.hg.1 | 3.32 | PSR12016566.hg.1 | HIST4H4, HIS |
| TC12001272.hg.1 | 2.88 | PSR12016568.hg.1 | HIST4H4, HIS |
| TC12001272.hg.1 | 2.36 | JUC12009088.hg.1 | HIST4H4, HIS |
| TC12001272.hg.1 | 2.07 | PSR12016565.hg.1 | HIST4H4, HIS |
| TC12001804.hg.1 | 3.32 | JUC12013227.hg.1 | DCN |
| TC12001804.hg.1 | 2.02 | PSR12023858.hg.1 | DCN |
| TC12001804.hg.1 | -2.35 | PSR12023867.hg.1 | DCN |
| TC12001804.hg.1 | -2.81 | PSR12023871.hg.1 | DCN |
| TC12001804.hg.1 | -3.91 | JUC12013229.hg.1 | DCN |
| TC16001270.hg.1 | 3.32 | PSR16017682.hg.1 | MLKL |
| TC16001270.hg.1 | -2.14 | JUC16010066.hg.1 | MLKL |
| TC16001270.hg.1 | -2.49 | PSR16017684.hg.1 | MLKL |
| TC01002924.hg.1 | 3.31 | JUC01024428.hg.1 | DPH5 |
| TC01002924.hg.1 | -2.33 | PSR01045426.hg.1 | DPH5 |
| TC01002924.hg.1 | -2.35 | JUC01024444.hg.1 | DPH5 |
| TC01002924.hg.1 | -3.8 | JUC01024433.hg.1 | DPH5 |
| TC05001041.hg.1 | 3.31 | JUC05007867.hg.1 | ZNF354C |
| TC05001041.hg.1 | 2.79 | PSR05015195.hg.1 | ZNF354C |
| TC05001041.hg.1 | 2.13 | JUC05007868.hg.1 | ZNF354C |
| TC05001041.hg.1 | 2.06 | JUC05007863.hg.1 | ZNF354C |

| | | | |
|-----------------|-------|------------------|-------------|
| TC05001880.hg.1 | 3.31 | PSR05025988.hg.1 | SPRY4 |
| TC05001880.hg.1 | 3.28 | PSR05026004.hg.1 | SPRY4 |
| TC05001880.hg.1 | 2.51 | JUC05013249.hg.1 | SPRY4 |
| TC05001880.hg.1 | 2.51 | JUC05013256.hg.1 | SPRY4 |
| TC05001880.hg.1 | 2.45 | JUC05013250.hg.1 | SPRY4 |
| TC05001880.hg.1 | 2.03 | PSR05025987.hg.1 | SPRY4 |
| TC05001880.hg.1 | -2.32 | JUC05013251.hg.1 | SPRY4 |
| TC05001880.hg.1 | -2.75 | PSR05025993.hg.1 | SPRY4 |
| TC05001880.hg.1 | -2.88 | PSR05025986.hg.1 | SPRY4 |
| TC05001880.hg.1 | -3.15 | PSR05025982.hg.1 | SPRY4 |
| TC11002017.hg.1 | 3.31 | JUC11012772.hg.1 | ORAOV1 |
| TC11002017.hg.1 | -3.32 | PSR11024187.hg.1 | ORAOV1 |
| TC11002017.hg.1 | -4.2 | JUC11012773.hg.1 | ORAOV1 |
| TC13000453.hg.1 | 3.31 | JUC13003104.hg.1 | PSPC1, PSPC |
| TC13000453.hg.1 | -2.05 | PSR13005142.hg.1 | PSPC1, PSPC |
| TC13000453.hg.1 | -4.03 | PSR13005165.hg.1 | PSPC1, PSPC |
| TC14000414.hg.1 | 3.31 | JUC14002532.hg.1 | GALNTL1 |
| TC14000414.hg.1 | 2.1 | PSR14004967.hg.1 | GALNTL1 |
| TC16000218.hg.1 | 3.31 | JUC16001762.hg.1 | ACSM5 |
| TC16000218.hg.1 | 2.88 | JUC16001767.hg.1 | ACSM5 |
| TC16000218.hg.1 | 2.05 | PSR16003262.hg.1 | ACSM5 |
| TC6_cox_hap2000 | 3.31 | PSR6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 3.15 | PSR6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.91 | JUC6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.79 | JUC6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.68 | JUC6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.34 | PSR6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.26 | JUC6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.25 | JUC6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.14 | PSR6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.09 | JUC6_cox_hap2000 | HLA-F |
| TC6_cox_hap2000 | 2.02 | PSR6_cox_hap2000 | HLA-F |
| TC02001625.hg.1 | 3.3 | JUC02013529.hg.1 | HS1BP3 |
| TC02001625.hg.1 | -2.16 | JUC02013537.hg.1 | HS1BP3 |
| TC02001625.hg.1 | -2.48 | PSR02026013.hg.1 | HS1BP3 |
| TC02002745.hg.1 | 3.3 | JUC02023081.hg.1 | BARD1 |
| TC02002745.hg.1 | 2.01 | PSR02044020.hg.1 | BARD1 |
| TC03001532.hg.1 | 3.3 | PSR03027921.hg.1 | LRIG1 |
| TC03001532.hg.1 | 3.21 | JUC03013717.hg.1 | LRIG1 |
| TC03001532.hg.1 | 2.71 | PSR03027920.hg.1 | LRIG1 |
| TC03001532.hg.1 | 2.59 | JUC03013699.hg.1 | LRIG1 |
| TC03001532.hg.1 | 2.34 | PSR03027898.hg.1 | LRIG1 |
| TC03001532.hg.1 | 2.22 | PSR03027911.hg.1 | LRIG1 |
| TC03001532.hg.1 | 2.07 | PSR03027902.hg.1 | LRIG1 |
| TC03001532.hg.1 | 2.05 | PSR03027900.hg.1 | LRIG1 |
| TC06002126.hg.1 | 3.3 | PSR06026704.hg.1 | SGK1 |
| TC06002126.hg.1 | 2.75 | PSR06026706.hg.1 | SGK1 |
| TC06002126.hg.1 | 2.69 | PSR06026697.hg.1 | SGK1 |
| TC06002126.hg.1 | 2.02 | PSR06026698.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.03 | JUC06013218.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.07 | PSR06026727.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.08 | PSR06026734.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.09 | PSR06026732.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.15 | JUC06013219.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.16 | JUC06013232.hg.1 | SGK1 |
| TC06002126.hg.1 | -2.27 | PSR06026742.hg.1 | SGK1 |
| TC12000424.hg.1 | 3.3 | PSR12005416.hg.1 | KRT18 |
| TC12000424.hg.1 | 2.31 | JUC12002982.hg.1 | KRT18 |

| | | | |
|-----------------|-------|------------------|--------|
| TC12000424.hg.1 | 2.19 | PSR12005400.hg.1 | KRT18 |
| TC12000424.hg.1 | 2.07 | PSR12005401.hg.1 | KRT18 |
| TC12000890.hg.1 | 3.3 | JUC12006487.hg.1 | TPCN1 |
| TC12000890.hg.1 | 2.52 | JUC12006501.hg.1 | TPCN1 |
| TC12000890.hg.1 | 2.35 | PSR12011801.hg.1 | TPCN1 |
| TC12000890.hg.1 | 2.23 | PSR12011770.hg.1 | TPCN1 |
| TC12000890.hg.1 | -2.21 | JUC12006474.hg.1 | TPCN1 |
| TC13000845.hg.1 | 3.3 | JUC13005606.hg.1 | NALCN |
| TC13000845.hg.1 | 2.9 | JUC13005609.hg.1 | NALCN |
| TC13000845.hg.1 | 2.14 | PSR13009460.hg.1 | NALCN |
| TC13000845.hg.1 | -2.11 | JUC13005581.hg.1 | NALCN |
| TC13000845.hg.1 | -2.19 | JUC13005587.hg.1 | NALCN |
| TC13000845.hg.1 | -2.22 | PSR13009489.hg.1 | NALCN |
| TC13000845.hg.1 | -2.25 | JUC13005595.hg.1 | NALCN |
| TC13000845.hg.1 | -2.3 | PSR13009485.hg.1 | NALCN |
| TC13000845.hg.1 | -2.34 | PSR13009483.hg.1 | NALCN |
| TC13000845.hg.1 | -2.54 | PSR13009461.hg.1 | NALCN |
| TC13000845.hg.1 | -2.59 | PSR13009514.hg.1 | NALCN |
| TC13000845.hg.1 | -2.96 | JUC13005571.hg.1 | NALCN |
| TC13000845.hg.1 | -3 | JUC13005599.hg.1 | NALCN |
| TC14001117.hg.1 | 3.3 | JUC14006324.hg.1 | L2HGDH |
| TC14001117.hg.1 | 2.52 | PSR14012591.hg.1 | L2HGDH |
| TC14001117.hg.1 | 2.14 | JUC14006328.hg.1 | L2HGDH |
| TC14001117.hg.1 | 2.04 | JUC14006331.hg.1 | L2HGDH |
| TC14001117.hg.1 | -2.37 | JUC14006336.hg.1 | L2HGDH |
| TC02000237.hg.1 | 3.29 | JUC02001856.hg.1 | QPCT |
| TC02000237.hg.1 | 2.09 | JUC02001851.hg.1 | QPCT |
| TC02000237.hg.1 | -2.48 | PSR02003548.hg.1 | QPCT |
| TC02000237.hg.1 | -3.73 | JUC02001850.hg.1 | QPCT |
| TC02000237.hg.1 | -4.18 | PSR02003536.hg.1 | QPCT |
| TC02000237.hg.1 | -5.44 | PSR02003549.hg.1 | QPCT |
| TC02000237.hg.1 | -5.66 | PSR02003532.hg.1 | QPCT |
| TC02000237.hg.1 | -6.52 | PSR02003544.hg.1 | QPCT |
| TC04001741.hg.1 | 3.29 | PSR04024051.hg.1 | HMGB2 |
| TC04001741.hg.1 | 3.01 | JUC04012753.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.94 | PSR04024061.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.81 | PSR04024052.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.8 | PSR04024057.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.63 | JUC04012758.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.47 | JUC04012755.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.24 | PSR04024038.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.09 | JUC04012754.hg.1 | HMGB2 |
| TC04001741.hg.1 | 2.08 | PSR04024059.hg.1 | HMGB2 |
| TC05000287.hg.1 | 3.29 | JUC05002024.hg.1 | |
| TC05000287.hg.1 | 3.04 | JUC05002022.hg.1 | |
| TC05000287.hg.1 | 2.1 | JUC05002023.hg.1 | |
| TC05000287.hg.1 | -4.39 | PSR05003760.hg.1 | |
| TC05000458.hg.1 | 3.29 | JUC05003577.hg.1 | ARSK |
| TC05000458.hg.1 | 2.82 | PSR05006472.hg.1 | ARSK |
| TC05000458.hg.1 | 2.76 | JUC05003579.hg.1 | ARSK |
| TC05000700.hg.1 | 3.29 | PSR05009800.hg.1 | REEP2 |
| TC05000700.hg.1 | 3.17 | JUC05005215.hg.1 | REEP2 |
| TC05000700.hg.1 | 3.05 | JUC05005219.hg.1 | REEP2 |
| TC05000700.hg.1 | 3.04 | PSR05009809.hg.1 | REEP2 |
| TC05000700.hg.1 | 2.75 | JUC05005220.hg.1 | REEP2 |
| TC05000700.hg.1 | 2.64 | PSR05009784.hg.1 | REEP2 |
| TC05000700.hg.1 | 2.62 | PSR05009801.hg.1 | REEP2 |
| TC05000700.hg.1 | 2.3 | PSR05009795.hg.1 | REEP2 |

| | | | |
|-----------------|-------|------------------|---------------|
| TC05000700.hg.1 | 2.15 | PSR05009791.hg.1 | REEP2 |
| TC07001798.hg.1 | 3.29 | JUC07013718.hg.1 | CTTNBP2 |
| TC07001798.hg.1 | 2.38 | JUC07013727.hg.1 | CTTNBP2 |
| TC07001798.hg.1 | 2.23 | JUC07013714.hg.1 | CTTNBP2 |
| TC07001798.hg.1 | 2.08 | PSR07027896.hg.1 | CTTNBP2 |
| TC11000311.hg.1 | 3.29 | PSR11003974.hg.1 | QSER1 |
| TC11000311.hg.1 | 2.46 | JUC11002081.hg.1 | QSER1 |
| TC11000311.hg.1 | -2.08 | JUC11002076.hg.1 | QSER1 |
| TC13000433.hg.1 | 3.29 | PSR13004901.hg.1 | FLJ44054, LII |
| TC13000433.hg.1 | 2.01 | JUC13002951.hg.1 | FLJ44054, LII |
| TC20000166.hg.1 | 3.29 | JUC20001107.hg.1 | ENTPD6 |
| TC20000166.hg.1 | 2.39 | JUC20001093.hg.1 | ENTPD6 |
| TC20000166.hg.1 | 2.34 | JUC20001096.hg.1 | ENTPD6 |
| TC20000166.hg.1 | -4.19 | PSR20002049.hg.1 | ENTPD6 |
| TC01003810.hg.1 | 3.28 | JUC01030434.hg.1 | NSL1 |
| TC01003810.hg.1 | -2.37 | PSR01058218.hg.1 | NSL1 |
| TC06000747.hg.1 | 3.28 | JUC06004146.hg.1 | MYO6 |
| TC06000747.hg.1 | 2.9 | PSR06009021.hg.1 | MYO6 |
| TC06000747.hg.1 | 2.69 | JUC06004179.hg.1 | MYO6 |
| TC06000747.hg.1 | 2.28 | JUC06004177.hg.1 | MYO6 |
| TC06000747.hg.1 | -2.04 | JUC06004180.hg.1 | MYO6 |
| TC08001396.hg.1 | 3.28 | PSR08018079.hg.1 | MMP16 |
| TC08001396.hg.1 | 2.52 | JUC08009207.hg.1 | MMP16 |
| TC08001396.hg.1 | 2.43 | JUC08009210.hg.1 | MMP16 |
| TC08001396.hg.1 | 2.31 | JUC08009212.hg.1 | MMP16 |
| TC08001396.hg.1 | 2.04 | PSR08018077.hg.1 | MMP16 |
| TC15002793.hg.1 | 3.28 | JUC15013951.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.01 | PSR15002538.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.03 | PSR15002549.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.2 | PSR15002541.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.43 | PSR15002539.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.48 | JUC15013933.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.56 | JUC15013950.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.59 | JUC15013937.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.73 | JUC15013956.hg.1 | CAPN3 |
| TC15002793.hg.1 | -2.83 | PSR15002540.hg.1 | CAPN3 |
| TC15002793.hg.1 | -3.05 | JUC15013945.hg.1 | CAPN3 |
| TC15002793.hg.1 | -3.81 | JUC15013963.hg.1 | CAPN3 |
| TC19000509.hg.1 | 3.28 | JUC19003979.hg.1 | ZNF568 |
| TC19000509.hg.1 | 2.48 | JUC19003976.hg.1 | ZNF568 |
| TC19000509.hg.1 | 2.24 | PSR19006760.hg.1 | ZNF568 |
| TC19000509.hg.1 | 2.13 | JUC19003981.hg.1 | ZNF568 |
| TC19000509.hg.1 | -2.01 | PSR19006768.hg.1 | ZNF568 |
| TC19000509.hg.1 | -3.33 | JUC19003974.hg.1 | ZNF568 |
| TC04001436.hg.1 | 3.27 | JUC04010586.hg.1 | CENPE |
| TC04001436.hg.1 | 3.03 | JUC04010599.hg.1 | CENPE |
| TC04001436.hg.1 | 2.82 | JUC04010555.hg.1 | CENPE |
| TC04001436.hg.1 | 2.66 | JUC04010590.hg.1 | CENPE |
| TC04001436.hg.1 | 2.22 | JUC04010576.hg.1 | CENPE |
| TC04001436.hg.1 | 2.16 | PSR04020227.hg.1 | CENPE |
| TC04001436.hg.1 | 2.14 | JUC04010559.hg.1 | CENPE |
| TC04001436.hg.1 | 2.13 | JUC04010575.hg.1 | CENPE |
| TC04001436.hg.1 | 2.04 | PSR04020232.hg.1 | CENPE |
| TC04001436.hg.1 | -2.77 | JUC04010583.hg.1 | CENPE |
| TC05001605.hg.1 | 3.27 | PSR05021886.hg.1 | TTC37 |
| TC05001605.hg.1 | -2.02 | JUC05011262.hg.1 | TTC37 |
| TC05001605.hg.1 | -2.38 | PSR05021877.hg.1 | TTC37 |
| TC05001605.hg.1 | -2.65 | JUC05011292.hg.1 | TTC37 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC05001605.hg.1 | -3.72 | PSR05021873.hg.1 | TTC37 |
| TC06000322.hg.1 | 3.27 | JUC06001150.hg.1 | MOG |
| TC06000322.hg.1 | 2.27 | PSR06002521.hg.1 | MOG |
| TC07000599.hg.1 | 3.27 | JUC07004187.hg.1 | ZNF498 |
| TC07000599.hg.1 | 2.09 | PSR07008964.hg.1 | ZNF498 |
| TC07003296.hg.1 | 3.27 | PSR07015219.hg.1 | ZNF775, LOC |
| TC07003296.hg.1 | 2.7 | PSR07015217.hg.1 | ZNF775, LOC |
| TC07003296.hg.1 | 2.65 | JUC07020419.hg.1 | ZNF775, LOC |
| TC07003296.hg.1 | 2.6 | PSR07015213.hg.1 | ZNF775, LOC |
| TC07003296.hg.1 | 2.05 | PSR07015216.hg.1 | ZNF775, LOC |
| TC07003296.hg.1 | 2.02 | PSR07015229.hg.1 | ZNF775, LOC |
| TC10000322.hg.1 | 3.27 | JUC10002141.hg.1 | MAPK8 |
| TC10000322.hg.1 | 2.16 | JUC10002138.hg.1 | MAPK8 |
| TC10000322.hg.1 | -2.1 | PSR10003685.hg.1 | MAPK8 |
| TC10000322.hg.1 | -2.21 | JUC10002134.hg.1 | MAPK8 |
| TC10000322.hg.1 | -2.38 | JUC10002121.hg.1 | MAPK8 |
| TC10000322.hg.1 | -4.03 | JUC10002135.hg.1 | MAPK8 |
| TC11000155.hg.1 | 3.27 | PSR11002193.hg.1 | TUB |
| TC11000155.hg.1 | 3.2 | JUC11000980.hg.1 | TUB |
| TC11000155.hg.1 | 2.99 | PSR11002207.hg.1 | TUB |
| TC11000155.hg.1 | 2.03 | JUC11000975.hg.1 | TUB |
| TC11000155.hg.1 | 2 | PSR11002206.hg.1 | TUB |
| TC11001358.hg.1 | 3.27 | JUC11009132.hg.1 | ARFIP2 |
| TC11001358.hg.1 | 2.15 | PSR11017086.hg.1 | ARFIP2 |
| TC11002151.hg.1 | 3.27 | JUC11013625.hg.1 | PRCP |
| TC11002151.hg.1 | 2.25 | JUC11013633.hg.1 | PRCP |
| TC11002151.hg.1 | 2.14 | PSR11025680.hg.1 | PRCP |
| TC17_ctg5_hap100 | 3.27 | JUC17_ctg5_hap100 | KANSL1 |
| TC17_ctg5_hap100 | -2.13 | PSR17_ctg5_hap100 | KANSL1 |
| TC17_ctg5_hap100 | -2.97 | JUC17_ctg5_hap100 | KANSL1 |
| TC01000500.hg.1 | 3.26 | JUC01004059.hg.1 | PPIE |
| TC01000500.hg.1 | 2.54 | JUC01004042.hg.1 | PPIE |
| TC01000500.hg.1 | 2.34 | PSR01007772.hg.1 | PPIE |
| TC01000500.hg.1 | 2.12 | JUC01004047.hg.1 | PPIE |
| TC01000500.hg.1 | 2.07 | PSR01007755.hg.1 | PPIE |
| TC01000500.hg.1 | -2.57 | JUC01004045.hg.1 | PPIE |
| TC02001075.hg.1 | 3.26 | JUC02008540.hg.1 | TTN-AS1 |
| TC02001075.hg.1 | 2.98 | PSR02016031.hg.1 | TTN-AS1 |
| TC02001075.hg.1 | 2.73 | PSR02016039.hg.1 | TTN-AS1 |
| TC02001075.hg.1 | 2.61 | PSR02016038.hg.1 | TTN-AS1 |
| TC02001075.hg.1 | 2.54 | JUC02008518.hg.1 | TTN-AS1 |
| TC02001075.hg.1 | 2.18 | PSR02016032.hg.1 | TTN-AS1 |
| TC05000054.hg.1 | 3.26 | PSR05000590.hg.1 | ADCY2 |
| TC05000054.hg.1 | 3.13 | JUC05000334.hg.1 | ADCY2 |
| TC05000054.hg.1 | 2.7 | PSR05000593.hg.1 | ADCY2 |
| TC05000054.hg.1 | 2.62 | PSR05000629.hg.1 | ADCY2 |
| TC05000054.hg.1 | 2.4 | JUC05000341.hg.1 | ADCY2 |
| TC05000054.hg.1 | 2.25 | PSR05000619.hg.1 | ADCY2 |
| TC05000054.hg.1 | 2.05 | PSR05000627.hg.1 | ADCY2 |
| TC05000054.hg.1 | -2.21 | JUC05000335.hg.1 | ADCY2 |
| TC05000054.hg.1 | -2.3 | JUC05000331.hg.1 | ADCY2 |
| TC05000054.hg.1 | -2.39 | JUC05000346.hg.1 | ADCY2 |
| TC05000054.hg.1 | -2.64 | JUC05000338.hg.1 | ADCY2 |
| TC05003410.hg.1 | 3.26 | JUC05019420.hg.1 | C5orf45 |
| TC05003410.hg.1 | 2.54 | JUC05019423.hg.1 | C5orf45 |
| TC05003410.hg.1 | -2.09 | PSR05029953.hg.1 | C5orf45 |
| TC05003410.hg.1 | -2.33 | PSR05029951.hg.1 | C5orf45 |
| TC05003410.hg.1 | -2.61 | PSR05029954.hg.1 | C5orf45 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC09000772.hg.1 | 3.26 | PSR09009903.hg.1 | SNORD24, R |
| TC09000772.hg.1 | 2.65 | PSR09009905.hg.1 | SNORD24, R |
| TC09000772.hg.1 | 2.53 | JUC09005425.hg.1 | SNORD24, R |
| TC09000772.hg.1 | 2.34 | PSR09009912.hg.1 | SNORD24, R |
| TC09000772.hg.1 | 2.03 | PSR09009886.hg.1 | SNORD24, R |
| TC0X000716.hg.1 | 3.26 | JUC0X004638.hg.1 | HSFX2, HSF) |
| TC0X000716.hg.1 | 2.28 | PSR0X009177.hg.1 | HSFX2, HSF) |
| TC10001761.hg.1 | 3.26 | JUC10013434.hg.1 | EBF3 |
| TC10001761.hg.1 | 2.83 | PSR10023286.hg.1 | EBF3 |
| TC10001761.hg.1 | 2.59 | JUC10013438.hg.1 | EBF3 |
| TC10001761.hg.1 | 2.21 | PSR10023268.hg.1 | EBF3 |
| TC10001761.hg.1 | 2.14 | PSR10023288.hg.1 | EBF3 |
| TC10001761.hg.1 | 2.1 | PSR10023293.hg.1 | EBF3 |
| TC10001761.hg.1 | 2.03 | PSR10023278.hg.1 | EBF3 |
| TC10001761.hg.1 | -2.15 | JUC10013426.hg.1 | EBF3 |
| TC10001761.hg.1 | -2.49 | PSR10023279.hg.1 | EBF3 |
| TC10001761.hg.1 | -2.54 | PSR10023280.hg.1 | EBF3 |
| TC10001761.hg.1 | -4.56 | JUC10013424.hg.1 | EBF3 |
| TC10001761.hg.1 | -5.74 | PSR10023274.hg.1 | EBF3 |
| TC11000032.hg.1 | 3.26 | JUC11000250.hg.1 | PNPLA2 |
| TC11000032.hg.1 | 2.14 | PSR11000460.hg.1 | PNPLA2 |
| TC12001930.hg.1 | 3.26 | JUC12014020.hg.1 | |
| TC12001930.hg.1 | 2.33 | PSR12025130.hg.1 | |
| TC12001930.hg.1 | 2.33 | PSR12025131.hg.1 | |
| TC12001930.hg.1 | 2.07 | JUC12014018.hg.1 | |
| TC15001441.hg.1 | 3.26 | JUC15007080.hg.1 | DMXL2 |
| TC15001441.hg.1 | 2.86 | JUC15007123.hg.1 | DMXL2 |
| TC15001441.hg.1 | -2.02 | JUC15007087.hg.1 | DMXL2 |
| TC15001441.hg.1 | -2.12 | PSR15013316.hg.1 | DMXL2 |
| TC15001441.hg.1 | -2.16 | JUC15007113.hg.1 | DMXL2 |
| TC15001441.hg.1 | -2.38 | JUC15007125.hg.1 | DMXL2 |
| TC15001441.hg.1 | -2.79 | JUC15007081.hg.1 | DMXL2 |
| TC20000482.hg.1 | 3.26 | JUC20003559.hg.1 | LSM14B |
| TC20000482.hg.1 | 2.36 | JUC20003550.hg.1 | LSM14B |
| TC20000482.hg.1 | 2.32 | PSR20006717.hg.1 | LSM14B |
| TC20001723.hg.1 | 3.26 | JUC20009638.hg.1 | L3MBTL1 |
| TC20001723.hg.1 | 2.19 | PSR20004480.hg.1 | L3MBTL1 |
| TC20001723.hg.1 | 2.15 | JUC20009637.hg.1 | L3MBTL1 |
| TC20001723.hg.1 | -2.37 | PSR20004493.hg.1 | L3MBTL1 |
| TC01001848.hg.1 | 3.25 | JUC01015456.hg.1 | CNIH3, LOC1 |
| TC01001848.hg.1 | 2.03 | JUC01015442.hg.1 | CNIH3, LOC1 |
| TC01001848.hg.1 | -2.75 | PSR01028722.hg.1 | CNIH3, LOC1 |
| TC04000905.hg.1 | 3.25 | PSR04012364.hg.1 | ANKRD37 |
| TC04000905.hg.1 | 3.15 | PSR04012357.hg.1 | ANKRD37 |
| TC04000905.hg.1 | 3.13 | PSR04012358.hg.1 | ANKRD37 |
| TC04000905.hg.1 | 2.94 | PSR04012356.hg.1 | ANKRD37 |
| TC04000905.hg.1 | 2.67 | PSR04012359.hg.1 | ANKRD37 |
| TC04000905.hg.1 | 2.42 | JUC04006656.hg.1 | ANKRD37 |
| TC04000905.hg.1 | -2.4 | JUC04006658.hg.1 | ANKRD37 |
| TC04002955.hg.1 | 3.25 | JUC04017441.hg.1 | ARAP2 |
| TC04002955.hg.1 | 3.14 | PSR04015210.hg.1 | ARAP2 |
| TC04002955.hg.1 | 2.49 | JUC04017456.hg.1 | ARAP2 |
| TC04002955.hg.1 | 2.36 | JUC04017459.hg.1 | ARAP2 |
| TC04002955.hg.1 | 2.07 | PSR04015208.hg.1 | ARAP2 |
| TC04002955.hg.1 | -2.06 | PSR04015214.hg.1 | ARAP2 |
| TC05001157.hg.1 | 3.25 | JUC05008426.hg.1 | FAM173B |
| TC05001157.hg.1 | -2.22 | PSR05016559.hg.1 | FAM173B |
| TC07000995.hg.1 | 3.25 | JUC07007375.hg.1 | ATP6V0E2 |

| | | | |
|-----------------|-------|-------------------|--------------|
| TC07000995.hg.1 | 2.48 | PSR07015115.hg.1 | ATP6V0E2 |
| TC07000995.hg.1 | 2.26 | PSR07015104.hg.1 | ATP6V0E2 |
| TC07000995.hg.1 | 2.22 | JUC07007380.hg.1 | ATP6V0E2 |
| TC07003292.hg.1 | 3.25 | JUC07020372.hg.1 | C7orf53 |
| TC07003292.hg.1 | -2.08 | PSR07011164.hg.1 | C7orf53 |
| TC07003292.hg.1 | -2.26 | PSR07011165.hg.1 | C7orf53 |
| TC12001811.hg.1 | 3.25 | PSR12023941.hg.1 | EEA1 |
| TC12001811.hg.1 | -2.18 | JUC12013263.hg.1 | EEA1 |
| TC15000152.hg.1 | 3.25 | JUC15000344.hg.1 | LOC646278 |
| TC15000152.hg.1 | 2.21 | JUC15000347.hg.1 | LOC646278 |
| TC15000152.hg.1 | 2.04 | PSR15000956.hg.1 | LOC646278 |
| TC15000152.hg.1 | -2.73 | JUC15000340.hg.1 | LOC646278 |
| TC17001301.hg.1 | 3.25 | JUC17009773.hg.1 | ALDOC |
| TC17001301.hg.1 | 3.25 | JUC17009776.hg.1 | ALDOC |
| TC17001301.hg.1 | 3.02 | JUC17009775.hg.1 | ALDOC |
| TC17001301.hg.1 | 3 | PSR17017294.hg.1 | ALDOC |
| TC17001301.hg.1 | 2.68 | PSR17017292.hg.1 | ALDOC |
| TC17001301.hg.1 | 2.5 | PSR17017280.hg.1 | ALDOC |
| TC17001301.hg.1 | 2.3 | JUC17009768.hg.1 | ALDOC |
| TC17001301.hg.1 | 2 | JUC17009772.hg.1 | ALDOC |
| TC20000092.hg.1 | 3.25 | JUC20000650.hg.1 | SPTLC3 |
| TC20000092.hg.1 | 2.06 | JUC20000648.hg.1 | SPTLC3 |
| TC20000092.hg.1 | -2.49 | JUC20000645.hg.1 | SPTLC3 |
| TC20000092.hg.1 | -2.89 | PSR20001262.hg.1 | SPTLC3 |
| TC02002110.hg.1 | 3.24 | JUC02017603.hg.1 | KANSL3, KIA |
| TC02002110.hg.1 | 2.46 | JUC02017581.hg.1 | KANSL3, KIA |
| TC02002110.hg.1 | 2.08 | PSR02034200.hg.1 | KANSL3, KIA |
| TC02002110.hg.1 | -3.44 | JUC02017594.hg.1 | KANSL3, KIA |
| TC02002110.hg.1 | -3.98 | JUC02017620.hg.1 | KANSL3, KIA |
| TC02002110.hg.1 | -4.02 | PSR02034175.hg.1 | KANSL3, KIA |
| TC02002110.hg.1 | -4.11 | JUC02017584.hg.1 | KANSL3, KIA |
| TC04000547.hg.1 | 3.24 | JUC04004185.hg.1 | GSTCD |
| TC04000547.hg.1 | 2.67 | PSR04007948.hg.1 | GSTCD |
| TC04000547.hg.1 | 2.4 | PSR04007961.hg.1 | GSTCD |
| TC04000547.hg.1 | 2.26 | JUC04004187.hg.1 | GSTCD |
| TC04000547.hg.1 | 2.2 | PSR04007972.hg.1 | GSTCD |
| TC04001724.hg.1 | 3.24 | PSR04023858.hg.1 | SH3RF1 |
| TC04001724.hg.1 | 3.13 | PSR04023831.hg.1 | SH3RF1 |
| TC04001724.hg.1 | 2.82 | PSR04023830.hg.1 | SH3RF1 |
| TC04001724.hg.1 | 2.52 | PSR04023856.hg.1 | SH3RF1 |
| TC04001724.hg.1 | 2.42 | JUC04012636.hg.1 | SH3RF1 |
| TC04001724.hg.1 | 2.24 | PSR04023857.hg.1 | SH3RF1 |
| TC04001724.hg.1 | -2.36 | JUC04012637.hg.1 | SH3RF1 |
| TC04001724.hg.1 | -2.84 | JUC04012626.hg.1 | SH3RF1 |
| TC08001371.hg.1 | 3.24 | PSR08017781.hg.1 | SNX16 |
| TC08001371.hg.1 | -2.4 | JUC08009016.hg.1 | SNX16 |
| TC18000016.hg.1 | 3.24 | JUC18000128.hg.1 | MYL12A |
| TC18000016.hg.1 | 2.24 | PSR18000174.hg.1 | MYL12A |
| TC6_dbb_hap3000 | 3.24 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.61 | PSR6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.4 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.39 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.29 | PSR6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.23 | PSR6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.22 | PSR6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.14 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.05 | PSR6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.08 | JUC6_dbb_hap30018 | C4B, C4A, LC |

| | | | |
|-----------------|--------|-------------------|--------------|
| TC6_dbb_hap3000 | -2.34 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.93 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.93 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -3.13 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -3.74 | JUC6_dbb_hap30018 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 3.24 | PSR6_mcf_hap5000 | HLA-F |
| TC6_mcf_hap5000 | 2.91 | PSR6_mcf_hap5000 | HLA-F |
| TC6_mcf_hap5000 | 2.75 | JUC6_mcf_hap50016 | HLA-F |
| TC6_mcf_hap5000 | 2.4 | PSR6_mcf_hap5000 | HLA-F |
| TC6_mcf_hap5000 | 2.32 | JUC6_mcf_hap50016 | HLA-F |
| TC01003006.hg.1 | 3.23 | PSR01046773.hg.1 | PTPN22 |
| TC01003006.hg.1 | -2.43 | JUC01025089.hg.1 | PTPN22 |
| TC01003006.hg.1 | -2.44 | JUC01025095.hg.1 | PTPN22 |
| TC02000465.hg.1 | 3.23 | JUC02003702.hg.1 | SEMA4F |
| TC02000465.hg.1 | 3.23 | JUC02003710.hg.1 | SEMA4F |
| TC02000465.hg.1 | 3.01 | PSR02007310.hg.1 | SEMA4F |
| TC02000465.hg.1 | 2.53 | PSR02007308.hg.1 | SEMA4F |
| TC02000465.hg.1 | 2.45 | JUC02003701.hg.1 | SEMA4F |
| TC02000465.hg.1 | 2.36 | JUC02003714.hg.1 | SEMA4F |
| TC02000465.hg.1 | 2.18 | JUC02003706.hg.1 | SEMA4F |
| TC02002211.hg.1 | 3.23 | JUC02018529.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | 2.4 | JUC02018558.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -2 | JUC02018539.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -2.12 | JUC02018570.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -2.28 | PSR02035909.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -2.31 | JUC02018563.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -2.32 | JUC02018575.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -3.08 | JUC02018559.hg.1 | ANAPC1, LO |
| TC02002211.hg.1 | -3.89 | JUC02018556.hg.1 | ANAPC1, LO |
| TC03001632.hg.1 | 3.23 | JUC03014610.hg.1 | KIAA1524 |
| TC03001632.hg.1 | -2.18 | JUC03014593.hg.1 | KIAA1524 |
| TC03001632.hg.1 | -2.2 | PSR03029482.hg.1 | KIAA1524 |
| TC03001632.hg.1 | -2.32 | JUC03014599.hg.1 | KIAA1524 |
| TC06001201.hg.1 | 3.23 | JUC06007125.hg.1 | TBP |
| TC06001201.hg.1 | -2.45 | PSR06014353.hg.1 | TBP |
| TC09000906.hg.1 | 3.23 | JUC09006558.hg.1 | PTPRD |
| TC09000906.hg.1 | 2.24 | JUC09006500.hg.1 | PTPRD |
| TC09000906.hg.1 | 2.23 | JUC09006492.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.01 | PSR09012024.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.31 | PSR09012020.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.44 | JUC09006562.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.59 | PSR09011993.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.61 | PSR09012050.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.89 | PSR09012053.hg.1 | PTPRD |
| TC09000906.hg.1 | -2.99 | PSR09012005.hg.1 | PTPRD |
| TC09000906.hg.1 | -3.41 | JUC09006536.hg.1 | PTPRD |
| TC09000906.hg.1 | -4 | JUC09006509.hg.1 | PTPRD |
| TC09000906.hg.1 | -4.1 | JUC09006521.hg.1 | PTPRD |
| TC09000906.hg.1 | -4.19 | JUC09006553.hg.1 | PTPRD |
| TC09000906.hg.1 | -4.9 | JUC09006505.hg.1 | PTPRD |
| TC09000906.hg.1 | -5.06 | PSR09012055.hg.1 | PTPRD |
| TC09000906.hg.1 | -5.4 | JUC09006504.hg.1 | PTPRD |
| TC09000906.hg.1 | -6.34 | PSR09012061.hg.1 | PTPRD |
| TC09000906.hg.1 | -6.35 | PSR09012062.hg.1 | PTPRD |
| TC09000906.hg.1 | -6.45 | PSR09012067.hg.1 | PTPRD |
| TC09000906.hg.1 | -6.65 | PSR09012056.hg.1 | PTPRD |
| TC09000906.hg.1 | -7.5 | PSR09012060.hg.1 | PTPRD |
| TC09000906.hg.1 | -11.12 | PSR09012064.hg.1 | PTPRD |

| | | | |
|------------------|--------|-------------------|------------|
| TC09000906.hg.1 | -14.04 | JUC09006524.hg.1 | PTPRD |
| TC15001992.hg.1 | 3.23 | PSR15018495.hg.1 | ADAMTS17 |
| TC15001992.hg.1 | -2 | JUC15010063.hg.1 | ADAMTS17 |
| TC15001992.hg.1 | -2.26 | JUC15010076.hg.1 | ADAMTS17 |
| TC16000240.hg.1 | 3.23 | JUC16001922.hg.1 | C16orf52 |
| TC16000240.hg.1 | 2.15 | JUC16001926.hg.1 | C16orf52 |
| TC16000240.hg.1 | -2.01 | PSR16003501.hg.1 | C16orf52 |
| TC16000240.hg.1 | -2.01 | JUC16001923.hg.1 | C16orf52 |
| TC16000240.hg.1 | -2.03 | PSR16003494.hg.1 | C16orf52 |
| TC16000240.hg.1 | -2.42 | PSR16003500.hg.1 | C16orf52 |
| TC16000240.hg.1 | -2.54 | JUC16001929.hg.1 | C16orf52 |
| TC17_ctg5_hap100 | 3.23 | JUC17_ctg5_hap100 | LRRC37A4P |
| TC17_ctg5_hap100 | 2.58 | PSR17_ctg5_hap100 | LRRC37A4P |
| TC17_ctg5_hap100 | 2.23 | JUC17_ctg5_hap100 | LRRC37A4P |
| TC17_ctg5_hap100 | 2.19 | JUC17_ctg5_hap100 | LRRC37A4P |
| TC17_ctg5_hap100 | -2.69 | JUC17_ctg5_hap100 | LRRC37A4P |
| TC21000409.hg.1 | 3.23 | JUC21002460.hg.1 | TMEM50B |
| TC21000409.hg.1 | 2.49 | PSR21004645.hg.1 | TMEM50B |
| TC21000409.hg.1 | 2.25 | PSR21004640.hg.1 | TMEM50B |
| TC21000409.hg.1 | 2.23 | PSR21004623.hg.1 | TMEM50B |
| TC21000409.hg.1 | 2.12 | PSR21004639.hg.1 | TMEM50B |
| TC01002258.hg.1 | 3.22 | JUC01018442.hg.1 | EPHA2 |
| TC01002258.hg.1 | 2.09 | PSR01034440.hg.1 | EPHA2 |
| TC01004024.hg.1 | 3.22 | JUC01031823.hg.1 | RGS7 |
| TC01004024.hg.1 | 3.18 | JUC01031806.hg.1 | RGS7 |
| TC01004024.hg.1 | 2.29 | JUC01031826.hg.1 | RGS7 |
| TC01004024.hg.1 | 2.25 | PSR01060765.hg.1 | RGS7 |
| TC01004024.hg.1 | 2.12 | JUC01031824.hg.1 | RGS7 |
| TC01004024.hg.1 | 2.01 | PSR01060781.hg.1 | RGS7 |
| TC01004024.hg.1 | -2.36 | PSR01060762.hg.1 | RGS7 |
| TC01004024.hg.1 | -2.52 | PSR01060780.hg.1 | RGS7 |
| TC02000360.hg.1 | 3.22 | JUC02002819.hg.1 | EHBP1 |
| TC02000360.hg.1 | -2.07 | PSR02005406.hg.1 | EHBP1 |
| TC02000360.hg.1 | -3 | JUC02002804.hg.1 | EHBP1 |
| TC02000360.hg.1 | -3.25 | PSR02005384.hg.1 | EHBP1 |
| TC02000360.hg.1 | -5.83 | JUC02002788.hg.1 | EHBP1 |
| TC02001600.hg.1 | 3.22 | PSR02025688.hg.1 | FAM49A |
| TC02001600.hg.1 | 2.13 | PSR02025689.hg.1 | FAM49A |
| TC02001600.hg.1 | 2.11 | PSR02025684.hg.1 | FAM49A |
| TC02001600.hg.1 | -3.3 | JUC02013349.hg.1 | FAM49A |
| TC02005058.hg.1 | 3.22 | PSR02001475.hg.1 | FAM228B |
| TC02005058.hg.1 | 2.71 | JUC02033252.hg.1 | FAM228B |
| TC02005058.hg.1 | 2 | JUC02033250.hg.1 | FAM228B |
| TC02005058.hg.1 | -2.25 | PSR02001467.hg.1 | FAM228B |
| TC02005058.hg.1 | -2.68 | JUC02033249.hg.1 | FAM228B |
| TC02005058.hg.1 | -2.76 | JUC02033241.hg.1 | FAM228B |
| TC02005058.hg.1 | -3.21 | JUC02033247.hg.1 | FAM228B |
| TC02005058.hg.1 | -3.3 | JUC02033258.hg.1 | FAM228B |
| TC06001327.hg.1 | 3.22 | JUC06007963.hg.1 | TDP2 |
| TC06001327.hg.1 | -2.21 | PSR06015888.hg.1 | TDP2 |
| TC06001327.hg.1 | -2.73 | PSR06015887.hg.1 | TDP2 |
| TC07000658.hg.1 | 3.22 | JUC07004760.hg.1 | LOC1002895 |
| TC07000658.hg.1 | -2.24 | PSR07010217.hg.1 | LOC1002895 |
| TC07001897.hg.1 | 3.22 | JUC07014524.hg.1 | DGKI |
| TC07001897.hg.1 | 2.69 | PSR07029471.hg.1 | DGKI |
| TC07001897.hg.1 | 2.29 | PSR07029448.hg.1 | DGKI |
| TC07001897.hg.1 | 2.21 | JUC07014546.hg.1 | DGKI |
| TC07001897.hg.1 | 2.09 | PSR07029427.hg.1 | DGKI |

| | | | |
|-----------------|-------|------------------|-------------|
| TC07001897.hg.1 | 2.03 | PSR07029443.hg.1 | DGKI |
| TC07001897.hg.1 | -2.08 | PSR07029444.hg.1 | DGKI |
| TC07001897.hg.1 | -2.14 | JUC07014536.hg.1 | DGKI |
| TC07001897.hg.1 | -2.14 | JUC07014537.hg.1 | DGKI |
| TC07001897.hg.1 | -2.17 | PSR07029449.hg.1 | DGKI |
| TC07001897.hg.1 | -2.31 | JUC07014554.hg.1 | DGKI |
| TC07001897.hg.1 | -2.4 | PSR07029475.hg.1 | DGKI |
| TC07001897.hg.1 | -2.49 | JUC07014545.hg.1 | DGKI |
| TC07001897.hg.1 | -2.5 | PSR07029476.hg.1 | DGKI |
| TC07001897.hg.1 | -2.57 | JUC07014544.hg.1 | DGKI |
| TC07001897.hg.1 | -2.86 | JUC07014560.hg.1 | DGKI |
| TC07001897.hg.1 | -3.75 | PSR07029447.hg.1 | DGKI |
| TC08000565.hg.1 | 3.22 | JUC08003854.hg.1 | FAM92A1 |
| TC08000565.hg.1 | 2.06 | PSR08007708.hg.1 | FAM92A1 |
| TC08000565.hg.1 | -2.13 | PSR08007678.hg.1 | FAM92A1 |
| TC08000565.hg.1 | -2.63 | PSR08007721.hg.1 | FAM92A1 |
| TC09001361.hg.1 | 3.22 | PSR09016977.hg.1 | FANCC |
| TC09001361.hg.1 | 2.9 | PSR09016971.hg.1 | FANCC |
| TC09001361.hg.1 | 2.64 | PSR09016970.hg.1 | FANCC |
| TC09001361.hg.1 | 2.41 | JUC09009132.hg.1 | FANCC |
| TC09001361.hg.1 | 2.36 | PSR09016968.hg.1 | FANCC |
| TC09001361.hg.1 | 2.34 | PSR09017002.hg.1 | FANCC |
| TC09001361.hg.1 | 2.17 | PSR09016967.hg.1 | FANCC |
| TC09001361.hg.1 | 2.06 | PSR09016993.hg.1 | FANCC |
| TC09001361.hg.1 | 2.04 | PSR09016991.hg.1 | FANCC |
| TC09001361.hg.1 | 2.01 | PSR09016984.hg.1 | FANCC |
| TC10001577.hg.1 | 3.22 | JUC10011758.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | 2.24 | JUC10011762.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.06 | JUC10011757.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.14 | PSR10020201.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.56 | JUC10011768.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.69 | JUC10011775.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.79 | JUC10011770.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.87 | JUC10011769.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -2.93 | JUC10011761.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -3.32 | PSR10020218.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -3.36 | PSR10020223.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -3.75 | PSR10020221.hg.1 | MIR1287, PY |
| TC10001577.hg.1 | -7.56 | PSR10020222.hg.1 | MIR1287, PY |
| TC11003463.hg.1 | 3.22 | JUC11019233.hg.1 | C11orf80 |
| TC11003463.hg.1 | 3.11 | JUC11019229.hg.1 | C11orf80 |
| TC11003463.hg.1 | 2.91 | PSR11008650.hg.1 | C11orf80 |
| TC11003463.hg.1 | 2.37 | JUC11019228.hg.1 | C11orf80 |
| TC11003463.hg.1 | 2.23 | PSR11008653.hg.1 | C11orf80 |
| TC11003463.hg.1 | -2.22 | PSR11008634.hg.1 | C11orf80 |
| TC13000622.hg.1 | 3.22 | JUC13004121.hg.1 | TSC22D1 |
| TC13000622.hg.1 | 2.48 | PSR13007085.hg.1 | TSC22D1 |
| TC13000622.hg.1 | 2.11 | PSR13007084.hg.1 | TSC22D1 |
| TC13000622.hg.1 | -2.14 | JUC13004114.hg.1 | TSC22D1 |
| TC13000622.hg.1 | -2.17 | PSR13007073.hg.1 | TSC22D1 |
| TC13000622.hg.1 | -2.41 | PSR13007072.hg.1 | TSC22D1 |
| TC15001468.hg.1 | 3.22 | JUC15007371.hg.1 | PYGO1 |
| TC15001468.hg.1 | 2.78 | PSR15013754.hg.1 | PYGO1 |
| TC15001468.hg.1 | 2.51 | PSR15013753.hg.1 | PYGO1 |
| TC15001468.hg.1 | 2.25 | PSR15013758.hg.1 | PYGO1 |
| TC17001954.hg.1 | 3.22 | JUC17014989.hg.1 | NPLOC4 |
| TC17001954.hg.1 | 2.33 | PSR17026590.hg.1 | NPLOC4 |
| TC17001954.hg.1 | 2.06 | JUC17014987.hg.1 | NPLOC4 |

| | | | |
|-----------------|-------|------------------|------------|
| TC20000900.hg.1 | 3.22 | PSR20012376.hg.1 | ELMO2 |
| TC20000900.hg.1 | 2.7 | JUC20006403.hg.1 | ELMO2 |
| TC20000900.hg.1 | 2.36 | JUC20006412.hg.1 | ELMO2 |
| TC20000900.hg.1 | 2.07 | JUC20006410.hg.1 | ELMO2 |
| TC20000900.hg.1 | -2.05 | JUC20006407.hg.1 | ELMO2 |
| TC20000900.hg.1 | -2.38 | JUC20006399.hg.1 | ELMO2 |
| TC20000900.hg.1 | -2.41 | JUC20006423.hg.1 | ELMO2 |
| TC01003791.hg.1 | 3.21 | JUC01030336.hg.1 | KCNH1 |
| TC01003791.hg.1 | 2.05 | PSR01058048.hg.1 | KCNH1 |
| TC01003791.hg.1 | -2.02 | PSR01058043.hg.1 | KCNH1 |
| TC01003791.hg.1 | -2.37 | PSR01058050.hg.1 | KCNH1 |
| TC01003791.hg.1 | -2.65 | JUC01030343.hg.1 | KCNH1 |
| TC01003791.hg.1 | -2.7 | JUC01030338.hg.1 | KCNH1 |
| TC01003791.hg.1 | -3.25 | PSR01058052.hg.1 | KCNH1 |
| TC06001584.hg.1 | 3.21 | JUC06009155.hg.1 | TAPBP |
| TC06001584.hg.1 | 2.06 | PSR06019230.hg.1 | TAPBP |
| TC07000387.hg.1 | 3.21 | JUC07002544.hg.1 | ZNF273 |
| TC07000387.hg.1 | 2.04 | JUC07002549.hg.1 | ZNF273 |
| TC07000387.hg.1 | -2.02 | PSR07005273.hg.1 | ZNF273 |
| TC07000387.hg.1 | -2.29 | PSR07005274.hg.1 | ZNF273 |
| TC09002922.hg.1 | 3.21 | PSR09021476.hg.1 | RALGDS |
| TC09002922.hg.1 | 3.18 | JUC09016084.hg.1 | RALGDS |
| TC09002922.hg.1 | 3.13 | PSR09021480.hg.1 | RALGDS |
| TC09002922.hg.1 | 2.47 | PSR09021515.hg.1 | RALGDS |
| TC09002922.hg.1 | 2.05 | PSR09021508.hg.1 | RALGDS |
| TC09002922.hg.1 | 2.02 | PSR09021492.hg.1 | RALGDS |
| TC09002922.hg.1 | 2 | PSR09021513.hg.1 | RALGDS |
| TC12000084.hg.1 | 3.21 | JUC12000524.hg.1 | GAPDH |
| TC12000084.hg.1 | 2.29 | JUC12000530.hg.1 | GAPDH |
| TC12000084.hg.1 | 2.1 | PSR12000904.hg.1 | GAPDH |
| TC12000084.hg.1 | -3.28 | PSR12000953.hg.1 | GAPDH |
| TC12000084.hg.1 | -5.09 | PSR12000937.hg.1 | GAPDH |
| TC16000615.hg.1 | 3.21 | PSR16008761.hg.1 | ZNRF1 |
| TC16000615.hg.1 | 2.86 | JUC16004863.hg.1 | ZNRF1 |
| TC16000615.hg.1 | 2.34 | PSR16008767.hg.1 | ZNRF1 |
| TC16000615.hg.1 | 2.2 | PSR16008765.hg.1 | ZNRF1 |
| TC18000480.hg.1 | 3.21 | PSR18004967.hg.1 | ATP5A1 |
| TC18000480.hg.1 | 2.05 | JUC18003332.hg.1 | ATP5A1 |
| TC04001086.hg.1 | 3.2 | JUC04007956.hg.1 | DHX15 |
| TC04001086.hg.1 | 3 | PSR04014936.hg.1 | DHX15 |
| TC04001086.hg.1 | 2.1 | PSR04014949.hg.1 | DHX15 |
| TC04001086.hg.1 | 2.08 | JUC04007951.hg.1 | DHX15 |
| TC04001462.hg.1 | 3.2 | JUC04010902.hg.1 | COL25A1 |
| TC04001462.hg.1 | 2.32 | PSR04020744.hg.1 | COL25A1 |
| TC04001462.hg.1 | 2.32 | JUC04010856.hg.1 | COL25A1 |
| TC04001462.hg.1 | 2.01 | JUC04010905.hg.1 | COL25A1 |
| TC04001462.hg.1 | -2.54 | PSR04020746.hg.1 | COL25A1 |
| TC07000722.hg.1 | 3.2 | JUC07005313.hg.1 | MET |
| TC07000722.hg.1 | 2.79 | JUC07005321.hg.1 | MET |
| TC07000722.hg.1 | 2.38 | PSR07011433.hg.1 | MET |
| TC09000820.hg.1 | 3.2 | JUC09005859.hg.1 | FAM69B |
| TC09000820.hg.1 | 2.44 | PSR09010604.hg.1 | FAM69B |
| TC14000944.hg.1 | 3.2 | PSR14010406.hg.1 | C14orf93 |
| TC14000944.hg.1 | 2.56 | PSR14010402.hg.1 | C14orf93 |
| TC14000944.hg.1 | 2.51 | JUC14005269.hg.1 | C14orf93 |
| TC19001892.hg.1 | 3.2 | JUC19014550.hg.1 | PEG3, ZIM2 |
| TC19001892.hg.1 | 2.94 | PSR19025676.hg.1 | PEG3, ZIM2 |
| TC19001892.hg.1 | 2.86 | JUC19014534.hg.1 | PEG3, ZIM2 |

| | | | |
|------------------|-------|-------------------|--------------|
| TC19001892.hg.1 | -2.09 | PSR19025682.hg.1 | PEG3, ZIM2 |
| TC19001892.hg.1 | -2.35 | JUC19014546.hg.1 | PEG3, ZIM2 |
| TC19001892.hg.1 | -3.1 | PSR19025678.hg.1 | PEG3, ZIM2 |
| TC6_cox_hap2000 | 3.2 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.57 | PSR6_cox_hap20015 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.37 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.36 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.31 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.26 | PSR6_cox_hap20015 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.21 | PSR6_cox_hap20015 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.11 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | 2.02 | PSR6_cox_hap20015 | C4B, C4A, LC |
| TC6_cox_hap2000 | -2.1 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | -2.37 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | -2.96 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | -2.97 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | -3.17 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_cox_hap2000 | -3.79 | JUC6_cox_hap20017 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 3.2 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.57 | PSR6_dbb_hap30011 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.37 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.36 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.31 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.26 | PSR6_dbb_hap30011 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.21 | PSR6_dbb_hap30011 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.11 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | 2.02 | PSR6_dbb_hap30011 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.1 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.37 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.96 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -2.97 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -3.17 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_dbb_hap3000 | -3.79 | JUC6_dbb_hap30005 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 3.2 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.57 | PSR6_qbl_hap60015 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.37 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.36 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.31 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.26 | PSR6_qbl_hap60015 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.21 | PSR6_qbl_hap60015 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.11 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | 2.02 | PSR6_qbl_hap60015 | C4B, C4A, LC |
| TC6_qbl_hap60002 | -2.1 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | -2.37 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | -2.96 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | -2.97 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | -3.17 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC6_qbl_hap60002 | -3.79 | JUC6_qbl_hap60017 | C4B, C4A, LC |
| TC03000584.hg.1 | 3.19 | PSR03010654.hg.1 | GRAMD1C |
| TC03000584.hg.1 | 3.13 | PSR03010644.hg.1 | GRAMD1C |
| TC03000584.hg.1 | 2.99 | JUC03005322.hg.1 | GRAMD1C |
| TC03000584.hg.1 | 2.28 | JUC03005326.hg.1 | GRAMD1C |
| TC03000584.hg.1 | 2.01 | PSR03010667.hg.1 | GRAMD1C |
| TC03000584.hg.1 | -2.2 | PSR03010679.hg.1 | GRAMD1C |
| TC03000584.hg.1 | -2.25 | PSR03010691.hg.1 | GRAMD1C |
| TC04000683.hg.1 | 3.19 | JUC04005197.hg.1 | NAA15 |
| TC04000683.hg.1 | 2.04 | PSR04009676.hg.1 | NAA15 |
| TC04000683.hg.1 | -2.39 | JUC04005206.hg.1 | NAA15 |

| | | | |
|-----------------|-------|------------------|------------|
| TC05000317.hg.1 | 3.19 | JUC05002305.hg.1 | SMN1, SMN2 |
| TC05000317.hg.1 | 2.89 | JUC05002299.hg.1 | SMN1, SMN2 |
| TC05000317.hg.1 | 2.37 | PSR05004261.hg.1 | SMN1, SMN2 |
| TC05000317.hg.1 | 2.12 | JUC05002307.hg.1 | SMN1, SMN2 |
| TC05001102.hg.1 | 3.19 | JUC05008144.hg.1 | SLC12A7 |
| TC05001102.hg.1 | 2.7 | PSR05016017.hg.1 | SLC12A7 |
| TC05001102.hg.1 | 2.68 | JUC05008129.hg.1 | SLC12A7 |
| TC05001102.hg.1 | 2.5 | PSR05016010.hg.1 | SLC12A7 |
| TC05001102.hg.1 | 2.19 | JUC05008136.hg.1 | SLC12A7 |
| TC05001102.hg.1 | -2.52 | PSR05016030.hg.1 | SLC12A7 |
| TC05001102.hg.1 | -2.81 | JUC05008141.hg.1 | SLC12A7 |
| TC05001102.hg.1 | -3.09 | JUC05008134.hg.1 | SLC12A7 |
| TC05001102.hg.1 | -3.24 | JUC05008128.hg.1 | SLC12A7 |
| TC05001184.hg.1 | 3.19 | JUC05008660.hg.1 | MYO10 |
| TC05001184.hg.1 | 2.89 | PSR05016947.hg.1 | MYO10 |
| TC05001184.hg.1 | 2.57 | JUC05008671.hg.1 | MYO10 |
| TC05001184.hg.1 | 2.2 | PSR05016942.hg.1 | MYO10 |
| TC05001184.hg.1 | 2.16 | PSR05016927.hg.1 | MYO10 |
| TC05001184.hg.1 | 2.14 | PSR05016972.hg.1 | MYO10 |
| TC05001184.hg.1 | 2.06 | PSR05016930.hg.1 | MYO10 |
| TC07001043.hg.1 | 3.19 | PSR07016073.hg.1 | RBM33 |
| TC07001043.hg.1 | 3.05 | PSR07016072.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.47 | PSR07016087.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.46 | PSR07016090.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.3 | JUC07007795.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.22 | JUC07007802.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.19 | PSR07016085.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.09 | JUC07007799.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.07 | PSR07016099.hg.1 | RBM33 |
| TC07001043.hg.1 | 2.06 | PSR07016103.hg.1 | RBM33 |
| TC07001043.hg.1 | -3.35 | JUC07007798.hg.1 | RBM33 |
| TC08002586.hg.1 | 3.19 | JUC08014763.hg.1 | STAU2 |
| TC08002586.hg.1 | 2.13 | PSR08017178.hg.1 | STAU2 |
| TC09001170.hg.1 | 3.19 | JUC09008092.hg.1 | CBWD6 |
| TC09001170.hg.1 | 2.16 | JUC09008100.hg.1 | CBWD6 |
| TC09001170.hg.1 | -2.02 | PSR09015039.hg.1 | CBWD6 |
| TC09001170.hg.1 | -2.04 | PSR09015023.hg.1 | CBWD6 |
| TC09001170.hg.1 | -2.04 | PSR09015043.hg.1 | CBWD6 |
| TC09001170.hg.1 | -2.27 | PSR09015062.hg.1 | CBWD6 |
| TC09001170.hg.1 | -2.27 | JUC09008091.hg.1 | CBWD6 |
| TC09001170.hg.1 | -3.96 | PSR09015056.hg.1 | CBWD6 |
| TC09001170.hg.1 | -3.99 | JUC09008093.hg.1 | CBWD6 |
| TC0X001518.hg.1 | 3.19 | JUC0X010020.hg.1 | IDH3G |
| TC0X001518.hg.1 | 2.1 | PSR0X019909.hg.1 | IDH3G |
| TC14000413.hg.1 | 3.19 | JUC14002519.hg.1 | EXD2 |
| TC14000413.hg.1 | 2.09 | PSR14004950.hg.1 | EXD2 |
| TC14001141.hg.1 | 3.19 | PSR14012960.hg.1 | ERO1L |
| TC14001141.hg.1 | 2.09 | PSR14012944.hg.1 | ERO1L |
| TC14001141.hg.1 | -2.81 | PSR14012951.hg.1 | ERO1L |
| TC14001141.hg.1 | -3.96 | JUC14006574.hg.1 | ERO1L |
| TC15000224.hg.1 | 3.19 | JUC15000515.hg.1 | SCG5 |
| TC15000224.hg.1 | 2.34 | PSR15001311.hg.1 | SCG5 |
| TC15000224.hg.1 | -2.42 | PSR15001324.hg.1 | SCG5 |
| TC15000224.hg.1 | -2.8 | PSR15001316.hg.1 | SCG5 |
| TC17000957.hg.1 | 3.19 | PSR17012630.hg.1 | FN3K |
| TC17000957.hg.1 | 2.66 | JUC17007159.hg.1 | FN3K |
| TC17000957.hg.1 | 2.54 | PSR17012627.hg.1 | FN3K |
| TC17000957.hg.1 | 2.51 | PSR17012620.hg.1 | FN3K |

| | | | |
|-----------------|-------|------------------|------------|
| TC17000957.hg.1 | 2.5 | JUC17007157.hg.1 | FN3K |
| TC17000957.hg.1 | 2.25 | PSR17012625.hg.1 | FN3K |
| TC17001017.hg.1 | 3.19 | PSR17013689.hg.1 | ZZEF1 |
| TC17001017.hg.1 | 2.16 | JUC17007794.hg.1 | ZZEF1 |
| TC17001017.hg.1 | -2.05 | JUC17007763.hg.1 | ZZEF1 |
| TC17001017.hg.1 | -2.07 | JUC17007784.hg.1 | ZZEF1 |
| TC17001017.hg.1 | -2.4 | JUC17007782.hg.1 | ZZEF1 |
| TC19001273.hg.1 | 3.19 | JUC19010491.hg.1 | ANO8 |
| TC19001273.hg.1 | 3.06 | JUC19010506.hg.1 | ANO8 |
| TC19001273.hg.1 | 2.28 | JUC19010497.hg.1 | ANO8 |
| TC19001273.hg.1 | 2.18 | JUC19010503.hg.1 | ANO8 |
| TC19001273.hg.1 | -2.07 | PSR19018036.hg.1 | ANO8 |
| TC19001273.hg.1 | -2.6 | JUC19010502.hg.1 | ANO8 |
| TC03000069.hg.1 | 3.18 | JUC03000808.hg.1 | PPARG |
| TC03000069.hg.1 | 2.33 | JUC03000812.hg.1 | PPARG |
| TC03000069.hg.1 | 2.07 | PSR03001551.hg.1 | PPARG |
| TC03000069.hg.1 | -2.16 | PSR03001529.hg.1 | PPARG |
| TC03000069.hg.1 | -2.34 | PSR03001556.hg.1 | PPARG |
| TC03000069.hg.1 | -2.48 | PSR03001538.hg.1 | PPARG |
| TC03000069.hg.1 | -2.6 | JUC03000814.hg.1 | PPARG |
| TC03000069.hg.1 | -2.86 | PSR03001532.hg.1 | PPARG |
| TC03000069.hg.1 | -2.95 | PSR03001534.hg.1 | PPARG |
| TC03000069.hg.1 | -3 | PSR03001539.hg.1 | PPARG |
| TC03000069.hg.1 | -4.29 | PSR03001533.hg.1 | PPARG |
| TC03000069.hg.1 | -6.24 | JUC03000810.hg.1 | PPARG |
| TC03000632.hg.1 | 3.18 | JUC03005680.hg.1 | DTX3L |
| TC03000632.hg.1 | -2.48 | PSR03011391.hg.1 | DTX3L |
| TC03000667.hg.1 | 3.18 | JUC03006010.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2.85 | PSR03012002.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2.66 | JUC03006011.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2.29 | JUC03006012.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2.14 | JUC03005993.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2.14 | JUC03006002.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2.1 | PSR03012015.hg.1 | ABTB1 |
| TC03000667.hg.1 | 2 | PSR03011981.hg.1 | ABTB1 |
| TC05001316.hg.1 | 3.18 | JUC05009557.hg.1 | HMGCS1 |
| TC05001316.hg.1 | -2.19 | PSR05018555.hg.1 | HMGCS1 |
| TC06002302.hg.1 | 3.18 | JUC06014527.hg.1 | LINC00473 |
| TC06002302.hg.1 | -2.86 | PSR06028842.hg.1 | LINC00473 |
| TC08000471.hg.1 | 3.18 | JUC08003248.hg.1 | LOC1001328 |
| TC08000471.hg.1 | 2.27 | PSR08006602.hg.1 | LOC1001328 |
| TC08000471.hg.1 | 2.11 | JUC08003242.hg.1 | LOC1001328 |
| TC08000471.hg.1 | -2 | PSR08006583.hg.1 | LOC1001328 |
| TC08000471.hg.1 | -6.16 | JUC08003256.hg.1 | LOC1001328 |
| TC08001120.hg.1 | 3.18 | PSR08014486.hg.1 | RNF122 |
| TC08001120.hg.1 | 2.77 | JUC08007376.hg.1 | RNF122 |
| TC08001120.hg.1 | 2.21 | PSR08014481.hg.1 | RNF122 |
| TC09000077.hg.1 | 3.18 | PSR09000899.hg.1 | CCDC171 |
| TC09000077.hg.1 | 2.69 | JUC09000483.hg.1 | CCDC171 |
| TC09000077.hg.1 | 2.65 | JUC09000476.hg.1 | CCDC171 |
| TC09000077.hg.1 | 2.17 | JUC09000459.hg.1 | CCDC171 |
| TC09000077.hg.1 | -8.78 | JUC09000451.hg.1 | CCDC171 |
| TC17000297.hg.1 | 3.18 | PSR17003629.hg.1 | MAP2K3 |
| TC17000297.hg.1 | 3.09 | JUC17002067.hg.1 | MAP2K3 |
| TC17000297.hg.1 | 2.95 | JUC17002053.hg.1 | MAP2K3 |
| TC17000297.hg.1 | 2.57 | JUC17002062.hg.1 | MAP2K3 |
| TC17000297.hg.1 | 2.18 | JUC17002063.hg.1 | MAP2K3 |
| TC17000297.hg.1 | 2.11 | JUC17002055.hg.1 | MAP2K3 |

| | | | |
|-----------------|-------|------------------|----------|
| TC17000297.hg.1 | 2.05 | JUC17002052.hg.1 | MAP2K3 |
| TC17001064.hg.1 | 3.18 | JUC17008151.hg.1 | KIAA0753 |
| TC17001064.hg.1 | 2.51 | JUC17008157.hg.1 | KIAA0753 |
| TC17001064.hg.1 | 2.21 | PSR17014253.hg.1 | KIAA0753 |
| TC17001064.hg.1 | -2.23 | JUC17008152.hg.1 | KIAA0753 |
| TC19000442.hg.1 | 3.18 | PSR19005775.hg.1 | GPI |
| TC19000442.hg.1 | 2.93 | PSR19005765.hg.1 | GPI |
| TC19000442.hg.1 | 2.55 | JUC19003436.hg.1 | GPI |
| TC19000442.hg.1 | 2.42 | PSR19005754.hg.1 | GPI |
| TC19000442.hg.1 | 2.1 | PSR19005755.hg.1 | GPI |
| TC19000442.hg.1 | 2.02 | PSR19005759.hg.1 | GPI |
| TC19000442.hg.1 | 2.01 | JUC19003431.hg.1 | GPI |
| TC22000565.hg.1 | 3.18 | JUC22004079.hg.1 | GUSBP11 |
| TC22000565.hg.1 | 2.88 | JUC22004074.hg.1 | GUSBP11 |
| TC22000565.hg.1 | 2.81 | JUC22004078.hg.1 | GUSBP11 |
| TC22000565.hg.1 | 2.6 | PSR22010149.hg.1 | GUSBP11 |
| TC22000565.hg.1 | 2.12 | JUC22004071.hg.1 | GUSBP11 |
| TC22000565.hg.1 | 2.02 | JUC22004068.hg.1 | GUSBP11 |
| TC01003968.hg.1 | 3.17 | PSR01060100.hg.1 | EGLN1 |
| TC01003968.hg.1 | 2.32 | JUC01031440.hg.1 | EGLN1 |
| TC04002963.hg.1 | 3.17 | PSR04000023.hg.1 | ZNF595 |
| TC04002963.hg.1 | 2.09 | JUC04017534.hg.1 | ZNF595 |
| TC04002963.hg.1 | -2.06 | PSR04000025.hg.1 | ZNF595 |
| TC04002963.hg.1 | -2.09 | PSR04000024.hg.1 | ZNF595 |
| TC04002963.hg.1 | -2.28 | JUC04017524.hg.1 | ZNF595 |
| TC05001771.hg.1 | 3.17 | JUC05012402.hg.1 | KIF3A |
| TC05001771.hg.1 | 2.15 | PSR05024012.hg.1 | KIF3A |
| TC05001771.hg.1 | -2.27 | JUC05012381.hg.1 | KIF3A |
| TC05001771.hg.1 | -2.37 | JUC05012387.hg.1 | KIF3A |
| TC06001059.hg.1 | 3.17 | JUC06006090.hg.1 | UTRN |
| TC06001059.hg.1 | 2.57 | PSR06012454.hg.1 | UTRN |
| TC06001059.hg.1 | 2.28 | PSR06012430.hg.1 | UTRN |
| TC06001059.hg.1 | 2.12 | JUC06006121.hg.1 | UTRN |
| TC06001059.hg.1 | 2.09 | PSR06012518.hg.1 | UTRN |
| TC06001059.hg.1 | 2.06 | JUC06006126.hg.1 | UTRN |
| TC06001059.hg.1 | 2 | JUC06006125.hg.1 | UTRN |
| TC06001059.hg.1 | -2.24 | PSR06012486.hg.1 | UTRN |
| TC06001059.hg.1 | -2.27 | JUC06006108.hg.1 | UTRN |
| TC09001639.hg.1 | 3.17 | PSR09020828.hg.1 | C9orf114 |
| TC09001639.hg.1 | 2.19 | JUC09011177.hg.1 | C9orf114 |
| TC09001639.hg.1 | -2.28 | JUC09011188.hg.1 | C9orf114 |
| TC11001449.hg.1 | 3.17 | JUC11009687.hg.1 | SOX6 |
| TC11001449.hg.1 | 3.15 | JUC11009703.hg.1 | SOX6 |
| TC11001449.hg.1 | 2.68 | PSR11018181.hg.1 | SOX6 |
| TC11001449.hg.1 | 2.52 | JUC11009706.hg.1 | SOX6 |
| TC11001449.hg.1 | 2.11 | PSR11018168.hg.1 | SOX6 |
| TC11001449.hg.1 | 2.05 | JUC11009686.hg.1 | SOX6 |
| TC11001449.hg.1 | 2.01 | PSR11018177.hg.1 | SOX6 |
| TC14001476.hg.1 | 3.17 | JUC14008618.hg.1 | SYNE3 |
| TC14001476.hg.1 | 2.78 | JUC14008619.hg.1 | SYNE3 |
| TC14001476.hg.1 | 2.58 | JUC14008624.hg.1 | SYNE3 |
| TC14001476.hg.1 | 2.43 | JUC14008616.hg.1 | SYNE3 |
| TC14001476.hg.1 | 2.36 | PSR14016684.hg.1 | SYNE3 |
| TC16000126.hg.1 | 3.17 | JUC16000953.hg.1 | DNASE1 |
| TC16000126.hg.1 | 2.08 | JUC16000951.hg.1 | DNASE1 |
| TC16000126.hg.1 | -2.12 | JUC16000947.hg.1 | DNASE1 |
| TC16000126.hg.1 | -2.19 | PSR16002005.hg.1 | DNASE1 |
| TC16000126.hg.1 | -2.42 | JUC16000949.hg.1 | DNASE1 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC16000126.hg.1 | -2.61 | JUC16000958.hg.1 | DNASE1 |
| TC19001079.hg.1 | 3.17 | JUC19008360.hg.1 | SAFB2 |
| TC19001079.hg.1 | -2.04 | JUC19008334.hg.1 | SAFB2 |
| TC19001079.hg.1 | -2.52 | PSR19014759.hg.1 | SAFB2 |
| TC19001079.hg.1 | -2.6 | JUC19008344.hg.1 | SAFB2 |
| TC6_ssto_hap7000 | 3.17 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 3 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.93 | JUC6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.92 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.8 | JUC6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.69 | JUC6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.5 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.27 | JUC6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.26 | JUC6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.19 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.15 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.13 | PSR6_ssto_hap7000 | HLA-F |
| TC6_ssto_hap7000 | 2.1 | JUC6_ssto_hap7000 | HLA-F |
| TC01001252.hg.1 | 3.16 | PSR01019137.hg.1 | LOR |
| TC01001252.hg.1 | 2.25 | JUC01010415.hg.1 | LOR |
| TC01001252.hg.1 | 2.19 | PSR01019140.hg.1 | LOR |
| TC01001544.hg.1 | 3.16 | JUC01012584.hg.1 | RALGPS2 |
| TC01001544.hg.1 | 2.54 | PSR01023837.hg.1 | RALGPS2 |
| TC01003784.hg.1 | 3.16 | PSR01057988.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | 2.63 | JUC01030294.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | 2.63 | JUC01030313.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | 2.22 | JUC01030310.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | 2.18 | PSR01057967.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -2.08 | PSR01057983.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -2.44 | JUC01030309.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -2.45 | PSR01057981.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -2.76 | PSR01057985.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -2.99 | JUC01030307.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -3.42 | JUC01030314.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -3.69 | PSR01057982.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -3.75 | JUC01030304.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -3.81 | PSR01057979.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -4.2 | JUC01030295.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -4.34 | PSR01057986.hg.1 | LAMB3, MIR4 |
| TC01003784.hg.1 | -8.07 | JUC01030305.hg.1 | LAMB3, MIR4 |
| TC02002204.hg.1 | 3.16 | JUC02018484.hg.1 | BUB1 |
| TC02002204.hg.1 | 2.64 | JUC02018455.hg.1 | BUB1 |
| TC02002204.hg.1 | 2.22 | PSR02035777.hg.1 | BUB1 |
| TC02002204.hg.1 | 2.04 | JUC02018480.hg.1 | BUB1 |
| TC02002204.hg.1 | -2.26 | PSR02035775.hg.1 | BUB1 |
| TC02002204.hg.1 | -2.44 | JUC02018457.hg.1 | BUB1 |
| TC02002204.hg.1 | -2.58 | PSR02035765.hg.1 | BUB1 |
| TC02002204.hg.1 | -3.16 | JUC02018466.hg.1 | BUB1 |
| TC03000011.hg.1 | 3.16 | PSR03000233.hg.1 | LRRN1 |
| TC03000011.hg.1 | -2.18 | JUC03000133.hg.1 | LRRN1 |
| TC03000011.hg.1 | -2.63 | JUC03000135.hg.1 | LRRN1 |
| TC07001457.hg.1 | 3.16 | JUC07010831.hg.1 | GUSB |
| TC07001457.hg.1 | 2.28 | JUC07010820.hg.1 | GUSB |
| TC07001457.hg.1 | 2.22 | PSR07022103.hg.1 | GUSB |
| TC07001457.hg.1 | 2.18 | PSR07022078.hg.1 | GUSB |
| TC07001457.hg.1 | 2.11 | JUC07010837.hg.1 | GUSB |
| TC07001457.hg.1 | 2.04 | JUC07010833.hg.1 | GUSB |
| TC0X001182.hg.1 | 3.16 | PSR0X015960.hg.1 | BRWD3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC0X001182.hg.1 | 2.81 | PSR0X015939.hg.1 | BRWD3 |
| TC0X001182.hg.1 | 2.27 | PSR0X015914.hg.1 | BRWD3 |
| TC0X001182.hg.1 | 2.26 | JUC0X008075.hg.1 | BRWD3 |
| TC0X001182.hg.1 | 2.22 | JUC0X008093.hg.1 | BRWD3 |
| TC0X001182.hg.1 | -2.36 | JUC0X008069.hg.1 | BRWD3 |
| TC0X002327.hg.1 | 3.16 | JUC0X013137.hg.1 | PIR |
| TC0X002327.hg.1 | 3.11 | PSR0X011728.hg.1 | PIR |
| TC0X002327.hg.1 | 2.63 | PSR0X011726.hg.1 | PIR |
| TC0X002327.hg.1 | 2.55 | PSR0X011736.hg.1 | PIR |
| TC0X002327.hg.1 | 2.51 | PSR0X011738.hg.1 | PIR |
| TC0X002327.hg.1 | 2.51 | JUC0X013135.hg.1 | PIR |
| TC0X002327.hg.1 | 2.29 | JUC0X013138.hg.1 | PIR |
| TC0X002327.hg.1 | -2.11 | JUC0X013132.hg.1 | PIR |
| TC0X002327.hg.1 | -2.31 | JUC0X013131.hg.1 | PIR |
| TC0X002327.hg.1 | -2.63 | JUC0X013134.hg.1 | PIR |
| TC0X002327.hg.1 | -2.7 | PSR0X011732.hg.1 | PIR |
| TC0X002327.hg.1 | -3.21 | JUC0X013130.hg.1 | PIR |
| TC10001613.hg.1 | 3.16 | JUC10012112.hg.1 | MGEA5 |
| TC10001613.hg.1 | 2.95 | JUC10012096.hg.1 | MGEA5 |
| TC10001613.hg.1 | 2.06 | JUC10012118.hg.1 | MGEA5 |
| TC10001613.hg.1 | 2.03 | JUC10012108.hg.1 | MGEA5 |
| TC10001613.hg.1 | -2.79 | PSR10020914.hg.1 | MGEA5 |
| TC11000707.hg.1 | 3.16 | PSR11009212.hg.1 | LRP5 |
| TC11000707.hg.1 | 3.04 | JUC11004711.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.94 | JUC11004724.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.64 | JUC11004708.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.35 | PSR11009187.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.31 | JUC11004718.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.17 | JUC11004702.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.15 | PSR11009188.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.1 | PSR11009197.hg.1 | LRP5 |
| TC11000707.hg.1 | 2.02 | PSR11009189.hg.1 | LRP5 |
| TC11000707.hg.1 | -2.29 | JUC11004709.hg.1 | LRP5 |
| TC11000707.hg.1 | -2.32 | JUC11004721.hg.1 | LRP5 |
| TC15000971.hg.1 | 3.16 | JUC15004759.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | 2.48 | PSR15009022.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | 2.09 | JUC15004751.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | 2 | JUC15004755.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -2.37 | PSR15009019.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -3.56 | JUC15004758.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -3.68 | PSR15009009.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -3.71 | PSR15009025.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -3.73 | PSR15009017.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -3.85 | PSR15009013.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -4.15 | PSR15009012.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -4.41 | PSR15009003.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -4.89 | JUC15004757.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -5.26 | PSR15009010.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -5.79 | JUC15004747.hg.1 | ALDH1A3 |
| TC15000971.hg.1 | -6.53 | JUC15004761.hg.1 | ALDH1A3 |
| TC16000294.hg.1 | 3.16 | PSR16004123.hg.1 | IL21R |
| TC16000294.hg.1 | -2.01 | JUC16002269.hg.1 | IL21R |
| TC16000294.hg.1 | -2.19 | JUC16002264.hg.1 | IL21R |
| TC16000482.hg.1 | 3.16 | JUC16003745.hg.1 | NLRC5 |
| TC16000482.hg.1 | 2.83 | JUC16003779.hg.1 | NLRC5 |
| TC16000482.hg.1 | 2.75 | JUC16003771.hg.1 | NLRC5 |
| TC16000482.hg.1 | 2.49 | PSR16006703.hg.1 | NLRC5 |
| TC16000482.hg.1 | 2.41 | JUC16003772.hg.1 | NLRC5 |

| | | | |
|-----------------|-------|------------------|---------|
| TC16000482.hg.1 | 2.35 | PSR16006658.hg.1 | NLRC5 |
| TC16000482.hg.1 | 2.23 | JUC16003797.hg.1 | NLRC5 |
| TC16000482.hg.1 | -2.01 | PSR16006675.hg.1 | NLRC5 |
| TC16000482.hg.1 | -2.64 | JUC16003756.hg.1 | NLRC5 |
| TC16000482.hg.1 | -2.9 | JUC16003739.hg.1 | NLRC5 |
| TC16000482.hg.1 | -2.93 | JUC16003795.hg.1 | NLRC5 |
| TC16000482.hg.1 | -3.32 | PSR16006653.hg.1 | NLRC5 |
| TC20000250.hg.1 | 3.16 | JUC20001860.hg.1 | MMP24 |
| TC20000250.hg.1 | 2.41 | JUC20001857.hg.1 | MMP24 |
| TC20000250.hg.1 | 2.23 | PSR20003287.hg.1 | MMP24 |
| TC20000250.hg.1 | -2.06 | JUC20001856.hg.1 | MMP24 |
| TC20000250.hg.1 | -2.3 | PSR20003285.hg.1 | MMP24 |
| TC20000250.hg.1 | -2.53 | PSR20003282.hg.1 | MMP24 |
| TC20000378.hg.1 | 3.16 | JUC20002974.hg.1 | |
| TC20000378.hg.1 | -2.21 | PSR20005459.hg.1 | |
| TC01001750.hg.1 | 3.15 | PSR01027393.hg.1 | HSD11B1 |
| TC01001750.hg.1 | -2.08 | PSR01027397.hg.1 | HSD11B1 |
| TC01001750.hg.1 | -3.44 | JUC01014746.hg.1 | HSD11B1 |
| TC01001750.hg.1 | -3.86 | JUC01014744.hg.1 | HSD11B1 |
| TC01002352.hg.1 | 3.15 | JUC01019557.hg.1 | FUCA1 |
| TC01002352.hg.1 | 3 | PSR01036296.hg.1 | FUCA1 |
| TC01002352.hg.1 | 2.9 | PSR01036298.hg.1 | FUCA1 |
| TC01002352.hg.1 | 2.35 | JUC01019563.hg.1 | FUCA1 |
| TC01002352.hg.1 | 2.23 | PSR01036292.hg.1 | FUCA1 |
| TC01002352.hg.1 | 2.19 | PSR01036299.hg.1 | FUCA1 |
| TC01002352.hg.1 | 2.17 | PSR01036297.hg.1 | FUCA1 |
| TC01002932.hg.1 | 3.15 | PSR01045510.hg.1 | COL11A1 |
| TC01002932.hg.1 | 3.09 | PSR01045535.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.01 | PSR01045587.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.01 | PSR01045588.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.04 | PSR01045582.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.06 | PSR01045580.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.13 | PSR01045511.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.13 | PSR01045590.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.16 | JUC01024485.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.2 | JUC01024501.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.21 | PSR01045585.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.23 | JUC01024498.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.23 | JUC01024552.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.36 | JUC01024542.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.44 | PSR01045589.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.44 | JUC01024489.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.47 | JUC01024507.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.52 | PSR01045506.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.72 | JUC01024543.hg.1 | COL11A1 |
| TC01002932.hg.1 | -2.81 | JUC01024525.hg.1 | COL11A1 |
| TC01002932.hg.1 | -3.61 | JUC01024499.hg.1 | COL11A1 |
| TC01002932.hg.1 | -4.28 | JUC01024551.hg.1 | COL11A1 |
| TC01002932.hg.1 | -8.98 | JUC01024490.hg.1 | COL11A1 |
| TC02001218.hg.1 | 3.15 | JUC02010002.hg.1 | ADAM23 |
| TC02001218.hg.1 | 2.41 | PSR02018713.hg.1 | ADAM23 |
| TC02001218.hg.1 | 2.14 | JUC02010000.hg.1 | ADAM23 |
| TC02001218.hg.1 | -2.23 | JUC02010017.hg.1 | ADAM23 |
| TC02001218.hg.1 | -2.7 | JUC02010007.hg.1 | ADAM23 |
| TC06001908.hg.1 | 3.15 | JUC06011267.hg.1 | IBTK |
| TC06001908.hg.1 | 2.87 | JUC06011258.hg.1 | IBTK |
| TC06001908.hg.1 | -2.27 | PSR06023176.hg.1 | IBTK |
| TC06001908.hg.1 | -2.56 | JUC06011257.hg.1 | IBTK |

| | | | |
|-----------------|-------|-------------------|------------|
| TC06001944.hg.1 | 3.15 | JUC06011679.hg.1 | MDN1 |
| TC06001944.hg.1 | 2.71 | JUC06011628.hg.1 | MDN1 |
| TC06001944.hg.1 | 2.2 | JUC06011615.hg.1 | MDN1 |
| TC06001944.hg.1 | 2.11 | JUC06011672.hg.1 | MDN1 |
| TC06001944.hg.1 | -2.19 | JUC06011600.hg.1 | MDN1 |
| TC06001944.hg.1 | -2.34 | JUC06011635.hg.1 | MDN1 |
| TC06001944.hg.1 | -2.36 | JUC06011690.hg.1 | MDN1 |
| TC06001944.hg.1 | -2.7 | JUC06011614.hg.1 | MDN1 |
| TC06001944.hg.1 | -2.72 | PSR06023868.hg.1 | MDN1 |
| TC06001944.hg.1 | -2.81 | JUC06011652.hg.1 | MDN1 |
| TC06001944.hg.1 | -3.14 | JUC06011622.hg.1 | MDN1 |
| TC08000123.hg.1 | 3.15 | PSR08001107.hg.1 | EFHA2 |
| TC08000123.hg.1 | 2.45 | PSR08001108.hg.1 | EFHA2 |
| TC08000123.hg.1 | -2 | JUC08000586.hg.1 | EFHA2 |
| TC08000123.hg.1 | -3.6 | JUC08000588.hg.1 | EFHA2 |
| TC12000668.hg.1 | 3.15 | JUC12004727.hg.1 | PTPRQ |
| TC12000668.hg.1 | 3.02 | JUC12004707.hg.1 | PTPRQ |
| TC12000668.hg.1 | 2.29 | PSR12008810.hg.1 | PTPRQ |
| TC12000668.hg.1 | 2.24 | JUC12004719.hg.1 | PTPRQ |
| TC12000668.hg.1 | 2.1 | JUC12004729.hg.1 | PTPRQ |
| TC12000668.hg.1 | -2 | JUC12004734.hg.1 | PTPRQ |
| TC12000668.hg.1 | -2.04 | JUC12004721.hg.1 | PTPRQ |
| TC12000668.hg.1 | -2.64 | JUC12004743.hg.1 | PTPRQ |
| TC12000668.hg.1 | -3.49 | JUC12004698.hg.1 | PTPRQ |
| TC16000267.hg.1 | 3.15 | JUC16002198.hg.1 | |
| TC16000267.hg.1 | 2.47 | PSR16003991.hg.1 | |
| TC17001601.hg.1 | 3.15 | PSR17021588.hg.1 | PLEKHM1, M |
| TC17001601.hg.1 | 2.48 | PSR17021577.hg.1 | PLEKHM1, M |
| TC17001601.hg.1 | 2.37 | JUC17012126.hg.1 | PLEKHM1, M |
| TC17001601.hg.1 | 2.36 | JUC17012139.hg.1 | PLEKHM1, M |
| TC17001601.hg.1 | 2.26 | PSR17021590.hg.1 | PLEKHM1, M |
| TC6_cox_hap2000 | 3.15 | JUC6_cox_hap20002 | DDR1 |
| TC6_cox_hap2000 | 2.94 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.86 | JUC6_cox_hap20002 | DDR1 |
| TC6_cox_hap2000 | 2.84 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.82 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.75 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.73 | JUC6_cox_hap20003 | DDR1 |
| TC6_cox_hap2000 | 2.69 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.61 | JUC6_cox_hap20003 | DDR1 |
| TC6_cox_hap2000 | 2.56 | JUC6_cox_hap20002 | DDR1 |
| TC6_cox_hap2000 | 2.39 | JUC6_cox_hap20003 | DDR1 |
| TC6_cox_hap2000 | 2.38 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.31 | JUC6_cox_hap20003 | DDR1 |
| TC6_cox_hap2000 | 2.24 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.23 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.22 | JUC6_cox_hap20003 | DDR1 |
| TC6_cox_hap2000 | 2.16 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.16 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | 2.14 | JUC6_cox_hap20002 | DDR1 |
| TC6_cox_hap2000 | 2.01 | PSR6_cox_hap20006 | DDR1 |
| TC6_cox_hap2000 | -2.07 | JUC6_cox_hap20003 | DDR1 |
| TC6_cox_hap2000 | -2.6 | PSR6_cox_hap20006 | DDR1 |
| TC6_dbb_hap3000 | 3.15 | PSR6_dbb_hap30000 | HLA-F |
| TC6_dbb_hap3000 | 2.91 | JUC6_dbb_hap30000 | HLA-F |
| TC6_dbb_hap3000 | 2.79 | JUC6_dbb_hap30000 | HLA-F |
| TC6_dbb_hap3000 | 2.68 | JUC6_dbb_hap30000 | HLA-F |
| TC6_dbb_hap3000 | 2.65 | PSR6_dbb_hap30000 | HLA-F |

| | | | |
|------------------|-------|-------------------|------------|
| TC6_dbb_hap3000 | 2.34 | PSR6_dbb_hap3000 | HLA-F |
| TC6_dbb_hap3000 | 2.26 | JUC6_dbb_hap3000 | HLA-F |
| TC6_dbb_hap3000 | 2.25 | JUC6_dbb_hap3000 | HLA-F |
| TC6_dbb_hap3000 | 2.13 | PSR6_dbb_hap3000 | HLA-F |
| TC6_dbb_hap3000 | 2.09 | JUC6_dbb_hap3000 | HLA-F |
| TC6_dbb_hap3000 | 2.02 | PSR6_dbb_hap3000 | HLA-F |
| TC6_dbb_hap3000 | 2.02 | PSR6_dbb_hap3000 | HLA-F |
| TC6_mann_hap4000 | 3.15 | PSR6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.91 | JUC6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.79 | JUC6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.68 | JUC6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.65 | PSR6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.34 | PSR6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.26 | JUC6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.25 | JUC6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.13 | PSR6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.09 | JUC6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.02 | PSR6_mann_hap4000 | HLA-F |
| TC6_mann_hap4000 | 2.02 | PSR6_mann_hap4000 | HLA-F |
| TC6_qbl_hap60000 | 3.15 | PSR6_qbl_hap60001 | HLA-F |
| TC6_qbl_hap60000 | 2.91 | JUC6_qbl_hap60000 | HLA-F |
| TC6_qbl_hap60000 | 2.79 | JUC6_qbl_hap60000 | HLA-F |
| TC6_qbl_hap60000 | 2.68 | JUC6_qbl_hap60000 | HLA-F |
| TC6_qbl_hap60000 | 2.65 | PSR6_qbl_hap60001 | HLA-F |
| TC6_qbl_hap60000 | 2.34 | PSR6_qbl_hap60001 | HLA-F |
| TC6_qbl_hap60000 | 2.26 | JUC6_qbl_hap60000 | HLA-F |
| TC6_qbl_hap60000 | 2.25 | JUC6_qbl_hap60000 | HLA-F |
| TC6_qbl_hap60000 | 2.13 | PSR6_qbl_hap60001 | HLA-F |
| TC6_qbl_hap60000 | 2.09 | JUC6_qbl_hap60000 | HLA-F |
| TC6_qbl_hap60000 | 2.02 | PSR6_qbl_hap60001 | HLA-F |
| TC6_qbl_hap60000 | 2.02 | PSR6_qbl_hap60001 | HLA-F |
| TC01002115.hg.1 | 3.14 | JUC01017411.hg.1 | MORN1 |
| TC01002115.hg.1 | 2.2 | PSR01032513.hg.1 | MORN1 |
| TC01002115.hg.1 | 2.03 | PSR01032503.hg.1 | MORN1 |
| TC01003650.hg.1 | 3.14 | PSR01056057.hg.1 | UHL5 |
| TC01003650.hg.1 | -2.2 | PSR01056041.hg.1 | UHL5 |
| TC01003650.hg.1 | -2.21 | JUC01029243.hg.1 | UHL5 |
| TC01003650.hg.1 | -2.55 | JUC01029251.hg.1 | UHL5 |
| TC01003650.hg.1 | -4.83 | JUC01029232.hg.1 | UHL5 |
| TC03002131.hg.1 | 3.14 | JUC03018609.hg.1 | LRRC15 |
| TC03002131.hg.1 | 2.43 | PSR03037579.hg.1 | LRRC15 |
| TC03002131.hg.1 | 2 | PSR03037578.hg.1 | LRRC15 |
| TC03002131.hg.1 | -2.51 | PSR03037584.hg.1 | LRRC15 |
| TC04002964.hg.1 | 3.14 | JUC04017543.hg.1 | ZNF718 |
| TC04002964.hg.1 | -2.04 | PSR04000056.hg.1 | ZNF718 |
| TC04002964.hg.1 | -2.18 | JUC04017540.hg.1 | ZNF718 |
| TC04002964.hg.1 | -2.75 | JUC04017539.hg.1 | ZNF718 |
| TC05000326.hg.1 | 3.14 | JUC05002356.hg.1 | SMN1, SMN2 |
| TC05000326.hg.1 | 2.84 | JUC05002361.hg.1 | SMN1, SMN2 |
| TC05000326.hg.1 | 2.33 | PSR05004401.hg.1 | SMN1, SMN2 |
| TC05000326.hg.1 | 2.08 | JUC05002359.hg.1 | SMN1, SMN2 |
| TC06000558.hg.1 | 3.14 | JUC06002664.hg.1 | DAAM2 |
| TC06000558.hg.1 | 2.82 | PSR06006230.hg.1 | DAAM2 |
| TC07000075.hg.1 | 3.14 | PSR07001261.hg.1 | C1GALT1 |
| TC07000075.hg.1 | 2.99 | JUC07000562.hg.1 | C1GALT1 |
| TC07000075.hg.1 | 2.61 | PSR07001263.hg.1 | C1GALT1 |
| TC07000075.hg.1 | 2.58 | PSR07001262.hg.1 | C1GALT1 |
| TC07000075.hg.1 | -4.23 | JUC07000568.hg.1 | C1GALT1 |

| | | | |
|-----------------|--------|---------------------------|--------------|
| TC07000942.hg.1 | 3.14 | PSR07014536.hg.1 | FAM115C |
| TC07000942.hg.1 | 2.54 | JUC07007025.hg.1 | FAM115C |
| TC07000942.hg.1 | 2.54 | JUC07007026.hg.1 | FAM115C |
| TC07000942.hg.1 | 2.54 | JUC07007027.hg.1 | FAM115C |
| TC07000942.hg.1 | 2.44 | PSR07014530.hg.1 | FAM115C |
| TC07000942.hg.1 | 2.27 | PSR07014543.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.05 | PSR07014526.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.31 | JUC07006997.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.37 | JUC07007000.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.37 | JUC07007002.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.6 | JUC07007003.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.6 | JUC07007004.hg.1 | FAM115C |
| TC07000942.hg.1 | -2.85 | PSR07014540.hg.1 | FAM115C |
| TC07000942.hg.1 | -3.53 | PSR07014539.hg.1 | FAM115C |
| TC07000942.hg.1 | -3.53 | PSR07014549.hg.1 | FAM115C |
| TC07000942.hg.1 | -4.83 | JUC07007012.hg.1 | FAM115C |
| TC07000942.hg.1 | -4.83 | JUC07007014.hg.1 | FAM115C |
| TC07000942.hg.1 | -10.47 | JUC07006999.hg.1 | FAM115C |
| TC07002073.hg.1 | 3.14 | JUC07015726.hg.1 | LMBR1 |
| TC07002073.hg.1 | 2.2 | PSR07031664.hg.1 | LMBR1 |
| TC07002073.hg.1 | 2.07 | JUC07015728.hg.1 | LMBR1 |
| TC07002073.hg.1 | -2.28 | JUC07015709.hg.1 | LMBR1 |
| TC07002073.hg.1 | -2.85 | JUC07015727.hg.1 | LMBR1 |
| TC07003361.hg.1 | 3.14 | JUC07021438.hg.1 | CYP51A1 |
| TC07003361.hg.1 | -2.01 | PSR07024093.hg.1 | CYP51A1 |
| TC09001591.hg.1 | 3.14 | PSR09020013.hg.1 | MAPKAP1 |
| TC09001591.hg.1 | -2.07 | PSR09019999.hg.1 | MAPKAP1 |
| TC09001591.hg.1 | -2.08 | PSR09020014.hg.1 | MAPKAP1 |
| TC09001591.hg.1 | -2.36 | PSR09019988.hg.1 | MAPKAP1 |
| TC09001591.hg.1 | -3.5 | JUC09010824.hg.1 | MAPKAP1 |
| TC09001591.hg.1 | -9.56 | JUC09010823.hg.1 | MAPKAP1 |
| TC0X000965.hg.1 | 3.14 | PSR0X012874.hg.1 | CXorf38 |
| TC0X000965.hg.1 | 2.57 | PSR0X012878.hg.1 | CXorf38 |
| TC0X000965.hg.1 | 2.41 | PSR0X012869.hg.1 | CXorf38 |
| TC0X000965.hg.1 | 2.33 | PSR0X012879.hg.1 | CXorf38 |
| TC0X000965.hg.1 | 2.24 | PSR0X012866.hg.1 | CXorf38 |
| TC0X000965.hg.1 | 2.16 | JUC0X006458.hg.1 | CXorf38 |
| TC11000708.hg.1 | 3.14 | JUC11004752.hg.1 | PPP6R3 |
| TC11000708.hg.1 | 2.81 | JUC11004767.hg.1 | PPP6R3 |
| TC11000708.hg.1 | 2.24 | JUC11004751.hg.1 | PPP6R3 |
| TC11000708.hg.1 | -2.11 | PSR11009246.hg.1 | PPP6R3 |
| TC11000708.hg.1 | -2.93 | JUC11004771.hg.1 | PPP6R3 |
| TC11003442.hg.1 | 3.14 | PSR11001716.hg.1 | TRIM34, TRIM |
| TC11003442.hg.1 | -2.56 | JUC11018941.hg.1 | TRIM34, TRIM |
| TC14000974.hg.1 | 3.14 | PSR14011112.hg.1 | CIDEB |
| TC14000974.hg.1 | 3.13 | JUC14005569.hg.1 | CIDEB |
| TC14000974.hg.1 | 2.26 | PSR14011121.hg.1 | CIDEB |
| TC14000974.hg.1 | 2.14 | PSR14011126.hg.1 | CIDEB |
| TC14000974.hg.1 | 2.03 | PSR14011122.hg.1 | CIDEB |
| TC15000253.hg.1 | 3.14 | JUC15000669.hg.1 | C15orf41 |
| TC15000253.hg.1 | 2.58 | PSR15001559.hg.1 | C15orf41 |
| TC15000253.hg.1 | 2.01 | JUC15000668.hg.1 | C15orf41 |
| TC15000253.hg.1 | -2.74 | JUC15000667.hg.1 | C15orf41 |
| TC19000641.hg.1 | 3.14 | PSR19008955.hg.1 | GEMIN7 |
| TC19000641.hg.1 | 2.49 | JUC19005319.hg.1 | GEMIN7 |
| TC6_mann_hap400 | 3.14 | JUC6_mann_hap4001106.hg.1 | |
| TC6_mann_hap400 | 2.1 | PSR6_mann_hap4002957.hg.1 | |
| TC6_mann_hap400 | -2.38 | PSR6_mann_hap4002982.hg.1 | |

| | | | |
|------------------|-------|-------------------|--------------|
| TC6_mcf_hap5000 | 3.14 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 2.52 | PSR6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 2.32 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 2.31 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 2.21 | PSR6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 2.16 | PSR6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | 2.07 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -2.01 | PSR6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -2.15 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -2.42 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -3.03 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -3.03 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -3.24 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_mcf_hap5000 | -3.87 | JUC6_mcf_hap5001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 3.14 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.52 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.32 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.31 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.21 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.16 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.07 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -2.01 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -2.15 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -2.42 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.03 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.03 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.24 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.87 | JUC6_ssto_hap7000 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 3.14 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.52 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.32 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.31 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.21 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.16 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | 2.07 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -2.01 | PSR6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -2.15 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -2.42 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.03 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.03 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.24 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC6_ssto_hap7000 | -3.87 | JUC6_ssto_hap7001 | C4B, C4A, LC |
| TC04000614.hg.1 | 3.14 | JUC04004690.hg.1 | LOC645513, |
| TC04000614.hg.1 | 2.96 | JUC04004696.hg.1 | LOC645513, |
| TC04000614.hg.1 | 2.94 | JUC04004689.hg.1 | LOC645513, |
| TC04000614.hg.1 | 2 | PSR04008854.hg.1 | LOC645513, |
| TC01000941.hg.1 | 3.13 | JUC01007846.hg.1 | CELSR2 |
| TC01000941.hg.1 | 2.31 | PSR01014863.hg.1 | CELSR2 |
| TC01000941.hg.1 | 2.27 | PSR01014872.hg.1 | CELSR2 |
| TC01000941.hg.1 | 2.17 | PSR01014860.hg.1 | CELSR2 |
| TC01000941.hg.1 | 2.06 | PSR01014840.hg.1 | CELSR2 |
| TC01000941.hg.1 | 2.03 | JUC01007855.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.06 | PSR01014851.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.12 | JUC01007847.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.35 | PSR01014858.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.36 | JUC01007841.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.51 | JUC01007863.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.65 | PSR01014859.hg.1 | CELSR2 |

| | | | |
|-----------------|--------|------------------|------------|
| TC01000941.hg.1 | -2.74 | PSR01014832.hg.1 | CELSR2 |
| TC01000941.hg.1 | -2.91 | PSR01014854.hg.1 | CELSR2 |
| TC01000941.hg.1 | -3.62 | JUC01007858.hg.1 | CELSR2 |
| TC01000941.hg.1 | -4.38 | JUC01007833.hg.1 | CELSR2 |
| TC01000941.hg.1 | -5.24 | JUC01007861.hg.1 | CELSR2 |
| TC01000941.hg.1 | -10.48 | JUC01007848.hg.1 | CELSR2 |
| TC01003225.hg.1 | 3.13 | PSR01049686.hg.1 | RFX5 |
| TC01003225.hg.1 | 2.12 | JUC01026360.hg.1 | RFX5 |
| TC01003467.hg.1 | 3.13 | JUC01028124.hg.1 | TMCO1 |
| TC01003467.hg.1 | 2.17 | JUC01028126.hg.1 | TMCO1 |
| TC01003467.hg.1 | -2.14 | PSR01053989.hg.1 | TMCO1 |
| TC01003467.hg.1 | -2.29 | JUC01028133.hg.1 | TMCO1 |
| TC01003467.hg.1 | -2.48 | JUC01028132.hg.1 | TMCO1 |
| TC02002419.hg.1 | 3.13 | PSR02038019.hg.1 | RND3 |
| TC02002419.hg.1 | 2.78 | PSR02038021.hg.1 | RND3 |
| TC02002419.hg.1 | 2.25 | PSR02038001.hg.1 | RND3 |
| TC02002419.hg.1 | 2.1 | PSR02038008.hg.1 | RND3 |
| TC02002419.hg.1 | -3.66 | PSR02038017.hg.1 | RND3 |
| TC02002419.hg.1 | -3.75 | JUC02019743.hg.1 | RND3 |
| TC03000572.hg.1 | 3.13 | JUC03005165.hg.1 | CD200 |
| TC03000572.hg.1 | -2.04 | JUC03005168.hg.1 | CD200 |
| TC03000572.hg.1 | -2.12 | PSR03010391.hg.1 | CD200 |
| TC03000572.hg.1 | -2.42 | JUC03005169.hg.1 | CD200 |
| TC03000572.hg.1 | -2.84 | PSR03010385.hg.1 | CD200 |
| TC03000572.hg.1 | -3.44 | PSR03010384.hg.1 | CD200 |
| TC03000572.hg.1 | -3.47 | PSR03010382.hg.1 | CD200 |
| TC03000572.hg.1 | -3.92 | JUC03005172.hg.1 | CD200 |
| TC04001194.hg.1 | 3.13 | PSR04016361.hg.1 | SGCB |
| TC04001194.hg.1 | 2.9 | JUC04008703.hg.1 | SGCB |
| TC04001194.hg.1 | 2.83 | JUC04008708.hg.1 | SGCB |
| TC04001194.hg.1 | 2.61 | PSR04016360.hg.1 | SGCB |
| TC04001194.hg.1 | 2.43 | PSR04016362.hg.1 | SGCB |
| TC04001194.hg.1 | 2.28 | PSR04016363.hg.1 | SGCB |
| TC04001194.hg.1 | 2.06 | JUC04008705.hg.1 | SGCB |
| TC05000359.hg.1 | 3.13 | PSR05004929.hg.1 | HEXB |
| TC05000359.hg.1 | 2.44 | PSR05004942.hg.1 | HEXB |
| TC05000359.hg.1 | 2.01 | PSR05004932.hg.1 | HEXB |
| TC05000359.hg.1 | -2.25 | JUC05002663.hg.1 | HEXB |
| TC06000501.hg.1 | 3.13 | PSR06005245.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | 2.37 | JUC06002056.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | 2.08 | PSR06005236.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | 2.07 | JUC06002063.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | -2 | PSR06005254.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | -2.05 | PSR06005253.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | -2.18 | PSR06005261.hg.1 | HMGA1, HMC |
| TC06000501.hg.1 | -2.41 | PSR06005258.hg.1 | HMGA1, HMC |
| TC07001266.hg.1 | 3.13 | JUC07009601.hg.1 | RP9 |
| TC07001266.hg.1 | 2.93 | PSR07019744.hg.1 | RP9 |
| TC07001266.hg.1 | 2.77 | PSR07019745.hg.1 | RP9 |
| TC07001266.hg.1 | 2.12 | PSR07019752.hg.1 | RP9 |
| TC07001266.hg.1 | 2.08 | JUC07009603.hg.1 | RP9 |
| TC07001266.hg.1 | 2.03 | PSR07019751.hg.1 | RP9 |
| TC07002017.hg.1 | 3.13 | PSR07030815.hg.1 | |
| TC07002017.hg.1 | 2.13 | JUC07015280.hg.1 | |
| TC09002927.hg.1 | 3.13 | JUC09016142.hg.1 | LCN6 |
| TC09002927.hg.1 | 2.11 | PSR09022391.hg.1 | LCN6 |
| TC0X000601.hg.1 | 3.13 | PSR0X007903.hg.1 | GRIA3 |
| TC0X000601.hg.1 | -2 | JUC0X003934.hg.1 | GRIA3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC0X000601.hg.1 | -2.03 | JUC0X003952.hg.1 | GRIA3 |
| TC0X000601.hg.1 | -2.04 | PSR0X007867.hg.1 | GRIA3 |
| TC0X000601.hg.1 | -2.1 | JUC0X003947.hg.1 | GRIA3 |
| TC0X000601.hg.1 | -2.27 | PSR0X007895.hg.1 | GRIA3 |
| TC0X000601.hg.1 | -2.29 | PSR0X007881.hg.1 | GRIA3 |
| TC0X000955.hg.1 | 3.13 | JUC0X006409.hg.1 | RPGR |
| TC0X000955.hg.1 | 2.46 | JUC0X006404.hg.1 | RPGR |
| TC0X000955.hg.1 | 2.01 | JUC0X006397.hg.1 | RPGR |
| TC0X000955.hg.1 | -2.27 | JUC0X006407.hg.1 | RPGR |
| TC0X000955.hg.1 | -2.28 | PSR0X012773.hg.1 | RPGR |
| TC0X002330.hg.1 | 3.13 | JUC0X013161.hg.1 | PRAF2 |
| TC0X002330.hg.1 | 2.03 | PSR0X013673.hg.1 | PRAF2 |
| TC11000406.hg.1 | 3.13 | JUC11002831.hg.1 | MADD |
| TC11000406.hg.1 | 2.04 | PSR11005221.hg.1 | MADD |
| TC11000406.hg.1 | -2.3 | JUC11002823.hg.1 | MADD |
| TC12000523.hg.1 | 3.13 | PSR12006915.hg.1 | NXPH4 |
| TC12000523.hg.1 | 2.89 | PSR12006914.hg.1 | NXPH4 |
| TC12000523.hg.1 | 2.32 | JUC12003634.hg.1 | NXPH4 |
| TC12000523.hg.1 | 2.12 | PSR12006910.hg.1 | NXPH4 |
| TC12001807.hg.1 | 3.13 | PSR12023897.hg.1 | BTG1 |
| TC12001807.hg.1 | 2.65 | PSR12023895.hg.1 | BTG1 |
| TC12001807.hg.1 | 2.45 | JUC12013248.hg.1 | BTG1 |
| TC14002191.hg.1 | 3.13 | PSR14000975.hg.1 | TRDJ1, TRDJ |
| TC14002191.hg.1 | 2.53 | PSR14000980.hg.1 | TRDJ1, TRDJ |
| TC14002191.hg.1 | 2.4 | PSR14000982.hg.1 | TRDJ1, TRDJ |
| TC14002191.hg.1 | 2.35 | JUC14011269.hg.1 | TRDJ1, TRDJ |
| TC14002191.hg.1 | 2.11 | JUC14011265.hg.1 | TRDJ1, TRDJ |
| TC14002191.hg.1 | 2.01 | PSR14000977.hg.1 | TRDJ1, TRDJ |
| TC15000778.hg.1 | 3.13 | JUC15003701.hg.1 | AGSK1, LOC |
| TC15000778.hg.1 | 2.5 | JUC15003708.hg.1 | AGSK1, LOC |
| TC15000778.hg.1 | 2.2 | PSR15007140.hg.1 | AGSK1, LOC |
| TC15000778.hg.1 | -2.55 | JUC15003704.hg.1 | AGSK1, LOC |
| TC15000778.hg.1 | -2.83 | JUC15003702.hg.1 | AGSK1, LOC |
| TC17000047.hg.1 | 3.13 | JUC17000259.hg.1 | ARRB2 |
| TC17000047.hg.1 | 2.6 | PSR17000464.hg.1 | ARRB2 |
| TC17000047.hg.1 | 2.3 | PSR17000471.hg.1 | ARRB2 |
| TC17000047.hg.1 | -2.07 | PSR17000475.hg.1 | ARRB2 |
| TC17000047.hg.1 | -2.09 | JUC17000273.hg.1 | ARRB2 |
| TC17000047.hg.1 | -2.2 | JUC17000272.hg.1 | ARRB2 |
| TC17000047.hg.1 | -3.09 | JUC17000264.hg.1 | ARRB2 |
| TC17000047.hg.1 | -3.1 | JUC17000268.hg.1 | ARRB2 |
| TC17000047.hg.1 | -3.22 | PSR17000473.hg.1 | ARRB2 |
| TC17000047.hg.1 | -3.29 | JUC17000266.hg.1 | ARRB2 |
| TC17000047.hg.1 | -3.53 | JUC17000269.hg.1 | ARRB2 |
| TC17000047.hg.1 | -4.51 | JUC17000265.hg.1 | ARRB2 |
| TC19000741.hg.1 | 3.13 | PSR19010358.hg.1 | PRR12 |
| TC19000741.hg.1 | -4.7 | JUC19006056.hg.1 | PRR12 |
| TC19002636.hg.1 | 3.13 | JUC19017404.hg.1 | BCKDHA |
| TC19002636.hg.1 | 2.93 | JUC19017411.hg.1 | BCKDHA |
| TC19002636.hg.1 | 2.6 | JUC19017403.hg.1 | BCKDHA |
| TC19002636.hg.1 | 2.36 | PSR19008035.hg.1 | BCKDHA |
| TC20000256.hg.1 | 3.13 | PSR20003475.hg.1 | SPAG4 |
| TC20000256.hg.1 | 2.47 | PSR20003456.hg.1 | SPAG4 |
| TC20000256.hg.1 | 2.26 | JUC20001957.hg.1 | SPAG4 |
| TC20000256.hg.1 | -2.05 | PSR20003469.hg.1 | SPAG4 |
| TC20000256.hg.1 | -2.43 | PSR20003463.hg.1 | SPAG4 |
| TC01002962.hg.1 | 3.12 | JUC01024786.hg.1 | GSTM3 |
| TC01002962.hg.1 | 2.88 | JUC01024789.hg.1 | GSTM3 |

| | | | |
|-----------------|--------|------------------|----------|
| TC01002962.hg.1 | 2.22 | PSR01046053.hg.1 | GSTM3 |
| TC03000732.hg.1 | 3.12 | JUC03006711.hg.1 | PPP2R3A |
| TC03000732.hg.1 | 2.1 | PSR03013247.hg.1 | PPP2R3A |
| TC03000732.hg.1 | 2.07 | JUC03006727.hg.1 | PPP2R3A |
| TC04000960.hg.1 | 3.12 | JUC04006940.hg.1 | RNF212 |
| TC04000960.hg.1 | -2.01 | PSR04013002.hg.1 | RNF212 |
| TC04000960.hg.1 | -2.39 | PSR04012996.hg.1 | RNF212 |
| TC04000960.hg.1 | -2.72 | PSR04013006.hg.1 | RNF212 |
| TC07000704.hg.1 | 3.12 | PSR07011051.hg.1 | LRRN3 |
| TC07000704.hg.1 | 2.04 | PSR07011052.hg.1 | LRRN3 |
| TC07000704.hg.1 | -2.04 | PSR07011048.hg.1 | LRRN3 |
| TC07000704.hg.1 | -2.05 | JUC07005196.hg.1 | LRRN3 |
| TC07000704.hg.1 | -2.35 | JUC07005199.hg.1 | LRRN3 |
| TC07000704.hg.1 | -2.8 | PSR07011055.hg.1 | LRRN3 |
| TC07000704.hg.1 | -2.95 | PSR07011050.hg.1 | LRRN3 |
| TC07000704.hg.1 | -4.88 | PSR07011043.hg.1 | LRRN3 |
| TC07000704.hg.1 | -9.25 | PSR07011045.hg.1 | LRRN3 |
| TC07000704.hg.1 | -11.19 | PSR07011046.hg.1 | LRRN3 |
| TC09000876.hg.1 | 3.12 | JUC09006315.hg.1 | RFX3 |
| TC09000876.hg.1 | 2.46 | PSR09011647.hg.1 | RFX3 |
| TC09000876.hg.1 | 2.04 | JUC09006305.hg.1 | RFX3 |
| TC09000876.hg.1 | -2.26 | PSR09011668.hg.1 | RFX3 |
| TC09000876.hg.1 | -2.29 | JUC09006311.hg.1 | RFX3 |
| TC09000876.hg.1 | -3.08 | JUC09006304.hg.1 | RFX3 |
| TC0X000212.hg.1 | 3.12 | JUC0X001284.hg.1 | KDM6A |
| TC0X000212.hg.1 | 2.43 | JUC0X001274.hg.1 | KDM6A |
| TC0X000212.hg.1 | 2.3 | PSR0X002375.hg.1 | KDM6A |
| TC0X000212.hg.1 | 2.23 | PSR0X002378.hg.1 | KDM6A |
| TC0X000212.hg.1 | 2.16 | PSR0X002383.hg.1 | KDM6A |
| TC0X000212.hg.1 | 2.05 | PSR0X002340.hg.1 | KDM6A |
| TC0X000212.hg.1 | -2.04 | PSR0X002382.hg.1 | KDM6A |
| TC0X000212.hg.1 | -2.66 | JUC0X001301.hg.1 | KDM6A |
| TC0X000212.hg.1 | -2.92 | JUC0X001311.hg.1 | KDM6A |
| TC16000169.hg.1 | 3.12 | JUC16001320.hg.1 | SHISA9 |
| TC16000169.hg.1 | 2.69 | PSR16002559.hg.1 | SHISA9 |
| TC17001689.hg.1 | 3.12 | JUC17012631.hg.1 | CHAD |
| TC17001689.hg.1 | -2.17 | JUC17012632.hg.1 | CHAD |
| TC17001689.hg.1 | -2.42 | PSR17022729.hg.1 | CHAD |
| TC17001689.hg.1 | -2.48 | PSR17022730.hg.1 | CHAD |
| TC17001689.hg.1 | -3.4 | JUC17012635.hg.1 | CHAD |
| TC17001689.hg.1 | -4.3 | JUC17012633.hg.1 | CHAD |
| TC17001914.hg.1 | 3.12 | PSR17025960.hg.1 | TK1 |
| TC17001914.hg.1 | 2.76 | JUC17014587.hg.1 | TK1 |
| TC17001914.hg.1 | 2.49 | PSR17025959.hg.1 | TK1 |
| TC17001914.hg.1 | 2.34 | PSR17025951.hg.1 | TK1 |
| TC17001914.hg.1 | 2.24 | JUC17014585.hg.1 | TK1 |
| TC17001914.hg.1 | 2.21 | PSR17025953.hg.1 | TK1 |
| TC17001914.hg.1 | -2.01 | PSR17025955.hg.1 | TK1 |
| TC01001675.hg.1 | 3.11 | JUC01013925.hg.1 | PPP1R12B |
| TC01001675.hg.1 | 2.67 | JUC01013933.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2 | PSR01026011.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2 | JUC01013938.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.08 | PSR01026031.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.11 | PSR01026025.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.11 | JUC01013907.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.14 | JUC01013923.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.15 | PSR01026036.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.15 | PSR01026039.hg.1 | PPP1R12B |

| | | | |
|------------------|--------|-------------------|--------------|
| TC01001675.hg.1 | -2.2 | PSR01026026.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.2 | PSR01026038.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.39 | JUC01013904.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.67 | PSR01026027.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.92 | JUC01013934.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -2.97 | PSR01026020.hg.1 | PPP1R12B |
| TC01001675.hg.1 | -3.57 | JUC01013911.hg.1 | PPP1R12B |
| TC01006268.hg.1 | 3.11 | PSR01003949.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | 2.79 | PSR01003939.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | 2.42 | PSR01003951.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | 2.31 | JUC01038979.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -2.04 | PSR01003944.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -4.42 | JUC01038987.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -4.65 | PSR01003937.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -4.7 | PSR01003945.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -5.15 | JUC01038988.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -5.31 | PSR01003936.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -5.34 | JUC01038982.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -5.35 | PSR01003938.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -5.77 | PSR01003934.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -6.05 | PSR01003931.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -6.16 | JUC01038985.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -6.34 | JUC01038980.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -6.39 | PSR01003927.hg.1 | NBL1, C1orf1 |
| TC01006268.hg.1 | -10.11 | JUC01038986.hg.1 | NBL1, C1orf1 |
| TC03000038.hg.1 | 3.11 | JUC03000378.hg.1 | SETD5 |
| TC03000038.hg.1 | 2.16 | PSR03000678.hg.1 | SETD5 |
| TC03000038.hg.1 | 2.06 | JUC03000395.hg.1 | SETD5 |
| TC03000038.hg.1 | -2.03 | JUC03000398.hg.1 | SETD5 |
| TC03000038.hg.1 | -2.59 | PSR03000670.hg.1 | SETD5 |
| TC03000038.hg.1 | -3.08 | PSR03000635.hg.1 | SETD5 |
| TC05000451.hg.1 | 3.11 | JUC05003514.hg.1 | NR2F1 |
| TC05000451.hg.1 | -2.44 | PSR05006375.hg.1 | NR2F1 |
| TC05001366.hg.1 | 3.11 | JUC05009848.hg.1 | IL6ST |
| TC05001366.hg.1 | 2.06 | PSR05019130.hg.1 | IL6ST |
| TC05001366.hg.1 | -3.84 | JUC05009854.hg.1 | IL6ST |
| TC05001543.hg.1 | 3.11 | PSR05021049.hg.1 | LOC1001310 |
| TC05001543.hg.1 | 2.38 | JUC05010854.hg.1 | LOC1001310 |
| TC05001543.hg.1 | 2 | PSR05021037.hg.1 | LOC1001310 |
| TC05001543.hg.1 | -2.07 | JUC05010853.hg.1 | LOC1001310 |
| TC14000562.hg.1 | 3.11 | JUC14003506.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.75 | JUC14003471.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.48 | JUC14003478.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.43 | JUC14003490.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.41 | JUC14003488.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.29 | PSR14006829.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.29 | JUC14003469.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.29 | JUC14003472.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.2 | PSR14006790.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.14 | JUC14003486.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.11 | PSR14006791.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.1 | PSR14006820.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.08 | PSR14006841.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2.01 | JUC14003493.hg.1 | C14orf159 |
| TC14000562.hg.1 | 2 | PSR14006801.hg.1 | C14orf159 |
| TC14000562.hg.1 | -2.28 | PSR14006822.hg.1 | C14orf159 |
| TC14000562.hg.1 | -2.38 | JUC14003497.hg.1 | C14orf159 |
| TC6_ssto_hap7000 | 3.11 | JUC6_ssto_hap7000 | APOM |

| | | | |
|------------------|-------|-------------------|-------------|
| TC6_ssto_hap7000 | 2.37 | PSR6_ssto_hap7000 | APOM |
| TC02000589.hg.1 | 3.1 | JUC02004643.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.02 | PSR02009089.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.02 | PSR02009101.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.07 | JUC02004664.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.09 | JUC02004669.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.1 | JUC02004633.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.39 | PSR02009158.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.78 | JUC02004671.hg.1 | ANKRD36, AF |
| TC02000589.hg.1 | -2.95 | JUC02004667.hg.1 | ANKRD36, AF |
| TC02001573.hg.1 | 3.1 | JUC02013167.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.41 | JUC02013176.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.37 | PSR02025394.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.37 | JUC02013169.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.15 | PSR02025393.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.08 | PSR02025399.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.02 | PSR02025395.hg.1 | PDIA6 |
| TC02001573.hg.1 | 2.01 | PSR02025397.hg.1 | PDIA6 |
| TC03001939.hg.1 | 3.1 | JUC03017163.hg.1 | CCNL1 |
| TC03001939.hg.1 | -2.55 | PSR03034660.hg.1 | CCNL1 |
| TC04000897.hg.1 | 3.1 | JUC04006595.hg.1 | CCDC111 |
| TC04000897.hg.1 | 2.04 | PSR04012266.hg.1 | CCDC111 |
| TC04000897.hg.1 | -2.11 | JUC04006587.hg.1 | CCDC111 |
| TC06001506.hg.1 | 3.1 | JUC06008386.hg.1 | NRM |
| TC06001506.hg.1 | 2.28 | PSR06017027.hg.1 | NRM |
| TC06001506.hg.1 | -2.94 | JUC06008384.hg.1 | NRM |
| TC06001506.hg.1 | -2.94 | JUC06008385.hg.1 | NRM |
| TC11000174.hg.1 | 3.1 | PSR11002379.hg.1 | WEE1 |
| TC11000174.hg.1 | 2.79 | PSR11002378.hg.1 | WEE1 |
| TC11000174.hg.1 | 2.16 | JUC11001066.hg.1 | WEE1 |
| TC11000174.hg.1 | 2.03 | PSR11002380.hg.1 | WEE1 |
| TC11000174.hg.1 | -2.24 | PSR11002386.hg.1 | WEE1 |
| TC11000174.hg.1 | -2.26 | JUC11001076.hg.1 | WEE1 |
| TC11000174.hg.1 | -2.31 | JUC11001075.hg.1 | WEE1 |
| TC12001440.hg.1 | 3.1 | PSR12018821.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.86 | JUC12010515.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.69 | PSR12018848.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.54 | JUC12010536.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.49 | JUC12010541.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.32 | JUC12010509.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.27 | JUC12010510.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.23 | PSR12018833.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.19 | PSR12018827.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.19 | PSR12018859.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.18 | JUC12010544.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.05 | PSR12018850.hg.1 | COL2A1 |
| TC12001440.hg.1 | 2.04 | JUC12010540.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.03 | JUC12010547.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.18 | PSR12018810.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.18 | JUC12010535.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.36 | PSR12018853.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.42 | JUC12010546.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.44 | PSR12018840.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.51 | JUC12010516.hg.1 | COL2A1 |
| TC12001440.hg.1 | -2.94 | JUC12010554.hg.1 | COL2A1 |
| TC12001440.hg.1 | -3.2 | PSR12018863.hg.1 | COL2A1 |
| TC12001440.hg.1 | -3.33 | JUC12010533.hg.1 | COL2A1 |
| TC12001440.hg.1 | -4.32 | PSR12018801.hg.1 | COL2A1 |

| | | | |
|------------------|---------|-------------------|-----------|
| TC12001440.hg.1 | -4.64 | PSR12018806.hg.1 | COL2A1 |
| TC12001440.hg.1 | -6.35 | JUC12010503.hg.1 | COL2A1 |
| TC12001440.hg.1 | -7.37 | PSR12018808.hg.1 | COL2A1 |
| TC12001440.hg.1 | -22.62 | PSR12018804.hg.1 | COL2A1 |
| TC12001440.hg.1 | -24.51 | PSR12018805.hg.1 | COL2A1 |
| TC12001440.hg.1 | -36.62 | PSR12018802.hg.1 | COL2A1 |
| TC12001440.hg.1 | -80.9 | PSR12018803.hg.1 | COL2A1 |
| TC12001440.hg.1 | -269.44 | JUC12010517.hg.1 | COL2A1 |
| TC16001350.hg.1 | 3.1 | PSR16018731.hg.1 | ANKRD11 |
| TC16001350.hg.1 | -2.05 | JUC16010676.hg.1 | ANKRD11 |
| TC16001350.hg.1 | -3.06 | PSR16018718.hg.1 | ANKRD11 |
| TC18000058.hg.1 | 3.1 | PSR18000591.hg.1 | GNAL |
| TC18000058.hg.1 | 2.3 | PSR18000594.hg.1 | GNAL |
| TC18000058.hg.1 | -2.73 | JUC18000379.hg.1 | GNAL |
| TC6_apd_hap1000 | 3.1 | JUC6_apd_hap1000 | NRM |
| TC6_apd_hap1000 | 2.28 | PSR6_apd_hap1001 | NRM |
| TC6_apd_hap1000 | -2.94 | JUC6_apd_hap1000 | NRM |
| TC6_apd_hap1000 | -2.94 | JUC6_apd_hap1000 | NRM |
| TC6_cox_hap2000 | 3.1 | JUC6_cox_hap2000 | NRM |
| TC6_cox_hap2000 | 2.28 | PSR6_cox_hap2002 | NRM |
| TC6_cox_hap2000 | -2.94 | JUC6_cox_hap2000 | NRM |
| TC6_cox_hap2000 | -2.94 | JUC6_cox_hap2000 | NRM |
| TC6_dbb_hap3000 | 3.1 | JUC6_dbb_hap3000 | NRM |
| TC6_dbb_hap3000 | 2.28 | PSR6_dbb_hap3002 | NRM |
| TC6_dbb_hap3000 | -2.94 | JUC6_dbb_hap3000 | NRM |
| TC6_dbb_hap3000 | -2.94 | JUC6_dbb_hap3000 | NRM |
| TC6_mann_hap4000 | 3.1 | JUC6_mann_hap4000 | NRM |
| TC6_mann_hap4000 | 2.28 | PSR6_mann_hap4000 | NRM |
| TC6_mann_hap4000 | -2.94 | JUC6_mann_hap4000 | NRM |
| TC6_mann_hap4000 | -2.94 | JUC6_mann_hap4000 | NRM |
| TC6_mcf_hap5000 | 3.1 | JUC6_mcf_hap5000 | NRM |
| TC6_mcf_hap5000 | 2.28 | PSR6_mcf_hap5002 | NRM |
| TC6_mcf_hap5000 | -2.94 | JUC6_mcf_hap5000 | NRM |
| TC6_mcf_hap5000 | -2.94 | JUC6_mcf_hap5000 | NRM |
| TC6_qbl_hap6000 | 3.1 | JUC6_qbl_hap6000 | NRM |
| TC6_qbl_hap6000 | 2.28 | PSR6_qbl_hap6002 | NRM |
| TC6_qbl_hap6000 | -2.94 | JUC6_qbl_hap6000 | NRM |
| TC6_qbl_hap6000 | -2.94 | JUC6_qbl_hap6000 | NRM |
| TC6_ssto_hap7000 | 3.1 | JUC6_ssto_hap7000 | HLA-F-AS1 |
| TC6_ssto_hap7000 | 2.56 | PSR6_ssto_hap7001 | HLA-F-AS1 |
| TC6_ssto_hap7000 | 2.54 | PSR6_ssto_hap7001 | HLA-F-AS1 |
| TC6_ssto_hap7000 | 2.38 | JUC6_ssto_hap7000 | HLA-F-AS1 |
| TC6_ssto_hap7000 | 2.07 | JUC6_ssto_hap7000 | HLA-F-AS1 |
| TC6_ssto_hap7000 | 2.01 | JUC6_ssto_hap7000 | HLA-F-AS1 |
| TC6_ssto_hap7000 | -2.43 | JUC6_ssto_hap7000 | HLA-F-AS1 |
| TC01001658.hg.1 | 3.09 | JUC01013696.hg.1 | PKP1 |
| TC01001658.hg.1 | -2.21 | PSR01025658.hg.1 | PKP1 |
| TC01002388.hg.1 | 3.09 | JUC01019818.hg.1 | UBXN11 |
| TC01002388.hg.1 | 2.14 | JUC01019821.hg.1 | UBXN11 |
| TC01002388.hg.1 | 2.08 | PSR01036818.hg.1 | UBXN11 |
| TC01002388.hg.1 | 2.07 | JUC01019837.hg.1 | UBXN11 |
| TC02002769.hg.1 | 3.09 | PSR02044466.hg.1 | AAMP |
| TC02002769.hg.1 | 2.56 | JUC02023329.hg.1 | AAMP |
| TC06001532.hg.1 | 3.09 | JUC06008526.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.6 | PSR06017544.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.4 | PSR06017617.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.4 | JUC06008523.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.39 | JUC06008546.hg.1 | BAG6 |

| | | | |
|-----------------|-------|-------------------|-------------|
| TC06001532.hg.1 | 2.34 | PSR06017611.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.3 | JUC06008563.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.17 | PSR06017552.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.12 | PSR06017556.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.09 | JUC06008532.hg.1 | BAG6 |
| TC06001532.hg.1 | 2.08 | PSR06017609.hg.1 | BAG6 |
| TC07003331.hg.1 | 3.09 | JUC07020964.hg.1 | STAG3L1, ST |
| TC07003331.hg.1 | 2.12 | JUC07020963.hg.1 | STAG3L1, ST |
| TC07003331.hg.1 | 2.11 | PSR07006523.hg.1 | STAG3L1, ST |
| TC07003331.hg.1 | 2.08 | JUC07020975.hg.1 | STAG3L1, ST |
| TC07003331.hg.1 | 2.03 | JUC07020959.hg.1 | STAG3L1, ST |
| TC09001141.hg.1 | 3.09 | JUC09007980.hg.1 | |
| TC09001141.hg.1 | 2.57 | PSR09014876.hg.1 | |
| TC09001141.hg.1 | 2.54 | JUC09007977.hg.1 | |
| TC09001141.hg.1 | 2.06 | PSR09014875.hg.1 | |
| TC09001141.hg.1 | -3.13 | JUC09007985.hg.1 | |
| TC12000628.hg.1 | 3.09 | JUC12004415.hg.1 | TBC1D15 |
| TC12000628.hg.1 | 2.81 | PSR12008367.hg.1 | TBC1D15 |
| TC12000628.hg.1 | 2.41 | PSR12008383.hg.1 | TBC1D15 |
| TC15000735.hg.1 | 3.09 | JUC15003371.hg.1 | MORF4L1 |
| TC15000735.hg.1 | 2.18 | PSR15006629.hg.1 | MORF4L1 |
| TC16000722.hg.1 | 3.09 | JUC16005799.hg.1 | NPRL3 |
| TC16000722.hg.1 | 2.42 | PSR16010380.hg.1 | NPRL3 |
| TC16000722.hg.1 | 2.41 | PSR16010416.hg.1 | NPRL3 |
| TC16000722.hg.1 | 2.13 | JUC16005818.hg.1 | NPRL3 |
| TC16000722.hg.1 | 2.05 | PSR16010382.hg.1 | NPRL3 |
| TC16000722.hg.1 | -2.1 | JUC16005806.hg.1 | NPRL3 |
| TC16000722.hg.1 | -2.15 | JUC16005798.hg.1 | NPRL3 |
| TC20000253.hg.1 | 3.09 | JUC20001897.hg.1 | CEP250 |
| TC20000253.hg.1 | 2.47 | JUC20001905.hg.1 | CEP250 |
| TC20000253.hg.1 | 2.28 | PSR20003330.hg.1 | CEP250 |
| TC20000253.hg.1 | 2.25 | JUC20001909.hg.1 | CEP250 |
| TC20000253.hg.1 | 2.21 | JUC20001888.hg.1 | CEP250 |
| TC20000253.hg.1 | 2.09 | JUC20001910.hg.1 | CEP250 |
| TC20000253.hg.1 | 2.04 | PSR20003332.hg.1 | CEP250 |
| TC20000253.hg.1 | -2.21 | JUC20001871.hg.1 | CEP250 |
| TC20000253.hg.1 | -2.37 | JUC20001887.hg.1 | CEP250 |
| TC20000253.hg.1 | -2.54 | PSR20003315.hg.1 | CEP250 |
| TC20000253.hg.1 | -2.88 | PSR20003363.hg.1 | CEP250 |
| TC20000253.hg.1 | -4.58 | JUC20001868.hg.1 | CEP250 |
| TC6_cox_hap2000 | 3.09 | JUC6_cox_hap20007 | HLA-F-AS1 |
| TC6_cox_hap2000 | 2.56 | PSR6_cox_hap20027 | HLA-F-AS1 |
| TC6_cox_hap2000 | 2.38 | PSR6_cox_hap20027 | HLA-F-AS1 |
| TC6_cox_hap2000 | 2.37 | JUC6_cox_hap20007 | HLA-F-AS1 |
| TC6_cox_hap2000 | 2.06 | JUC6_cox_hap20007 | HLA-F-AS1 |
| TC6_cox_hap2000 | 2.01 | JUC6_cox_hap20007 | HLA-F-AS1 |
| TC6_cox_hap2000 | -2.43 | JUC6_cox_hap20007 | HLA-F-AS1 |
| TC6_mcf_hap5000 | 3.09 | JUC6_mcf_hap50008 | BAG6 |
| TC6_mcf_hap5000 | 2.6 | PSR6_mcf_hap50028 | BAG6 |
| TC6_mcf_hap5000 | 2.4 | PSR6_mcf_hap50028 | BAG6 |
| TC6_mcf_hap5000 | 2.4 | JUC6_mcf_hap50008 | BAG6 |
| TC6_mcf_hap5000 | 2.39 | JUC6_mcf_hap50008 | BAG6 |
| TC6_mcf_hap5000 | 2.34 | PSR6_mcf_hap50028 | BAG6 |
| TC6_mcf_hap5000 | 2.3 | JUC6_mcf_hap50008 | BAG6 |
| TC6_mcf_hap5000 | 2.17 | PSR6_mcf_hap50028 | BAG6 |
| TC6_mcf_hap5000 | 2.09 | JUC6_mcf_hap50008 | BAG6 |
| TC6_mcf_hap5000 | 2.08 | PSR6_mcf_hap50028 | BAG6 |
| TC6_qbl_hap6000 | 3.09 | JUC6_qbl_hap60010 | BAG6 |

| | | | |
|-----------------|-------|-------------------|-------------|
| TC6_qbl_hap6000 | 2.6 | PSR6_qbl_hap60028 | BAG6 |
| TC6_qbl_hap6000 | 2.4 | PSR6_qbl_hap60029 | BAG6 |
| TC6_qbl_hap6000 | 2.4 | JUC6_qbl_hap60010 | BAG6 |
| TC6_qbl_hap6000 | 2.39 | JUC6_qbl_hap60010 | BAG6 |
| TC6_qbl_hap6000 | 2.34 | PSR6_qbl_hap60029 | BAG6 |
| TC6_qbl_hap6000 | 2.3 | JUC6_qbl_hap60010 | BAG6 |
| TC6_qbl_hap6000 | 2.19 | PSR6_qbl_hap60028 | BAG6 |
| TC6_qbl_hap6000 | 2.17 | PSR6_qbl_hap60028 | BAG6 |
| TC6_qbl_hap6000 | 2.09 | JUC6_qbl_hap60010 | BAG6 |
| TC6_qbl_hap6000 | 2.08 | PSR6_qbl_hap60029 | BAG6 |
| TC03000326.hg.1 | 3.08 | JUC03003345.hg.1 | PARP3 |
| TC03000326.hg.1 | 2.5 | JUC03003339.hg.1 | PARP3 |
| TC03000326.hg.1 | 2.35 | PSR03006937.hg.1 | PARP3 |
| TC03000326.hg.1 | 2.17 | PSR03006949.hg.1 | PARP3 |
| TC03000326.hg.1 | 2.12 | PSR03006928.hg.1 | PARP3 |
| TC03000326.hg.1 | 2.07 | PSR03006926.hg.1 | PARP3 |
| TC03000326.hg.1 | 2.05 | PSR03006936.hg.1 | PARP3 |
| TC03000326.hg.1 | -2 | PSR03006935.hg.1 | PARP3 |
| TC03000326.hg.1 | -2.23 | JUC03003347.hg.1 | PARP3 |
| TC04000222.hg.1 | 3.08 | JUC04001577.hg.1 | FAM114A1 |
| TC04000222.hg.1 | 2.29 | PSR04003255.hg.1 | FAM114A1 |
| TC04000222.hg.1 | 2.19 | JUC04001574.hg.1 | FAM114A1 |
| TC04000222.hg.1 | -2.27 | JUC04001585.hg.1 | FAM114A1 |
| TC04001355.hg.1 | 3.08 | JUC04009945.hg.1 | WDFY3 |
| TC04001355.hg.1 | 3 | JUC04009933.hg.1 | WDFY3 |
| TC04001355.hg.1 | 2.04 | PSR04018864.hg.1 | WDFY3 |
| TC04001355.hg.1 | -2.16 | JUC04009971.hg.1 | WDFY3 |
| TC05002009.hg.1 | 3.08 | PSR05027907.hg.1 | C5orf54 |
| TC05002009.hg.1 | 2.7 | JUC05014226.hg.1 | C5orf54 |
| TC05002009.hg.1 | 2.21 | PSR05027899.hg.1 | C5orf54 |
| TC06001510.hg.1 | 3.08 | JUC06008438.hg.1 | IER3 |
| TC06001510.hg.1 | 2.03 | PSR06017128.hg.1 | IER3 |
| TC07001489.hg.1 | 3.08 | JUC07010970.hg.1 | STAG3L3, ST |
| TC07001489.hg.1 | 2.1 | PSR07022322.hg.1 | STAG3L3, ST |
| TC07001489.hg.1 | 2.07 | JUC07010967.hg.1 | STAG3L3, ST |
| TC07001489.hg.1 | 2.02 | JUC07010974.hg.1 | STAG3L3, ST |
| TC10001200.hg.1 | 3.08 | PSR10015043.hg.1 | RASGEF1A |
| TC10001200.hg.1 | -2.03 | PSR10015062.hg.1 | RASGEF1A |
| TC10001200.hg.1 | -2.37 | JUC10008740.hg.1 | RASGEF1A |
| TC15001277.hg.1 | 3.08 | JUC15006438.hg.1 | ZSCAN29 |
| TC15001277.hg.1 | 2.24 | JUC15006434.hg.1 | ZSCAN29 |
| TC15001277.hg.1 | 2.1 | PSR15011871.hg.1 | ZSCAN29 |
| TC16001112.hg.1 | 3.08 | JUC16008705.hg.1 | LOC388276 |
| TC16001112.hg.1 | -2.02 | PSR16015542.hg.1 | LOC388276 |
| TC19001787.hg.1 | 3.08 | PSR19024281.hg.1 | FPR1 |
| TC19001787.hg.1 | -2.86 | JUC19013815.hg.1 | FPR1 |
| TC19001787.hg.1 | -3.05 | JUC19013813.hg.1 | FPR1 |
| TC21000477.hg.1 | 3.08 | JUC21002989.hg.1 | PRDM15 |
| TC21000477.hg.1 | 2.56 | JUC21002959.hg.1 | PRDM15 |
| TC21000477.hg.1 | 2.48 | JUC21002996.hg.1 | PRDM15 |
| TC21000477.hg.1 | 2.13 | PSR21005795.hg.1 | PRDM15 |
| TC21000477.hg.1 | 2.12 | JUC21002957.hg.1 | PRDM15 |
| TC21000477.hg.1 | -2.62 | JUC21002987.hg.1 | PRDM15 |
| TC01001585.hg.1 | 3.07 | JUC01013062.hg.1 | LAMC2 |
| TC01001585.hg.1 | 2.91 | JUC01013064.hg.1 | LAMC2 |
| TC01001585.hg.1 | 2.33 | JUC01013057.hg.1 | LAMC2 |
| TC01001585.hg.1 | -2.19 | JUC01013076.hg.1 | LAMC2 |
| TC01001585.hg.1 | -2.48 | JUC01013079.hg.1 | LAMC2 |

| | | | |
|------------------|-------|-------------------|------------|
| TC01001585.hg.1 | -2.57 | JUC01013074.hg.1 | LAMC2 |
| TC01001585.hg.1 | -2.61 | PSR01024555.hg.1 | LAMC2 |
| TC01001585.hg.1 | -3.38 | JUC01013072.hg.1 | LAMC2 |
| TC01003197.hg.1 | 3.07 | PSR01049013.hg.1 | MTMR11 |
| TC01003197.hg.1 | 2.99 | JUC01026061.hg.1 | MTMR11 |
| TC01003197.hg.1 | 2.05 | JUC01026055.hg.1 | MTMR11 |
| TC01003197.hg.1 | -2.91 | PSR01048995.hg.1 | MTMR11 |
| TC06000377.hg.1 | 3.07 | JUC06001566.hg.1 | APOM |
| TC06000377.hg.1 | 2.34 | PSR06003729.hg.1 | APOM |
| TC08000324.hg.1 | 3.07 | PSR08004573.hg.1 | AP3M2 |
| TC08000324.hg.1 | 2.04 | JUC08002307.hg.1 | AP3M2 |
| TC08000324.hg.1 | 2.01 | PSR08004586.hg.1 | AP3M2 |
| TC08000324.hg.1 | -2.11 | PSR08004572.hg.1 | AP3M2 |
| TC08001427.hg.1 | 3.07 | JUC08009429.hg.1 | RBM12B |
| TC08001427.hg.1 | 2.11 | PSR08018531.hg.1 | RBM12B |
| TC08001427.hg.1 | -2.12 | PSR08018514.hg.1 | RBM12B |
| TC09000269.hg.1 | 3.07 | JUC09001526.hg.1 | LOC1005096 |
| TC09000269.hg.1 | 2.51 | PSR09002933.hg.1 | LOC1005096 |
| TC11000770.hg.1 | 3.07 | JUC11005135.hg.1 | ATG16L2 |
| TC11000770.hg.1 | 2.66 | JUC11005137.hg.1 | ATG16L2 |
| TC11000770.hg.1 | 2.02 | PSR11009914.hg.1 | ATG16L2 |
| TC11000770.hg.1 | -2.01 | PSR11009891.hg.1 | ATG16L2 |
| TC11000770.hg.1 | -2.16 | PSR11009894.hg.1 | ATG16L2 |
| TC11000770.hg.1 | -2.3 | JUC11005146.hg.1 | ATG16L2 |
| TC13000686.hg.1 | 3.07 | JUC13004671.hg.1 | NEK3 |
| TC13000686.hg.1 | 2.15 | JUC13004665.hg.1 | NEK3 |
| TC13000686.hg.1 | -2.11 | PSR13007994.hg.1 | NEK3 |
| TC13000686.hg.1 | -2.45 | PSR13007996.hg.1 | NEK3 |
| TC17000324.hg.1 | 3.07 | JUC17002217.hg.1 | SPAG5-AS1 |
| TC17000324.hg.1 | 2.01 | PSR17003948.hg.1 | SPAG5-AS1 |
| TC17001897.hg.1 | 3.07 | PSR17025736.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | 2.68 | PSR17025719.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | 2.61 | PSR17025742.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | 2.22 | PSR17025729.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | 2.1 | JUC17014463.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | 2.05 | PSR17025722.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | -2.06 | JUC17014455.hg.1 | PRPSAP1 |
| TC17001897.hg.1 | -2.6 | JUC17014460.hg.1 | PRPSAP1 |
| TC21000138.hg.1 | 3.07 | JUC21000639.hg.1 | CLIC6 |
| TC21000138.hg.1 | 2.14 | PSR21001194.hg.1 | CLIC6 |
| TC21000138.hg.1 | -2.2 | JUC21000634.hg.1 | CLIC6 |
| TC21000138.hg.1 | -4.81 | PSR21001193.hg.1 | CLIC6 |
| TC21000138.hg.1 | -5.88 | PSR21001192.hg.1 | CLIC6 |
| TC6_cox_hap2000 | 3.07 | JUC6_cox_hap20004 | APOM |
| TC6_cox_hap2000 | 2.34 | PSR6_cox_hap20010 | APOM |
| TC6_dbb_hap3000 | 3.07 | JUC6_dbb_hap30000 | APOM |
| TC6_dbb_hap3000 | 2.34 | PSR6_dbb_hap30010 | APOM |
| TC6_mann_hap400 | 3.07 | JUC6_mann_hap400 | APOM |
| TC6_mann_hap400 | 2.34 | PSR6_mann_hap400 | APOM |
| TC6_mcf_hap5000 | 3.07 | JUC6_mcf_hap50000 | APOM |
| TC6_mcf_hap5000 | 2.34 | PSR6_mcf_hap50000 | APOM |
| TC6_qbl_hap60000 | 3.07 | JUC6_qbl_hap60004 | APOM |
| TC6_qbl_hap60000 | 2.34 | PSR6_qbl_hap60010 | APOM |
| TC02000725.hg.1 | 3.06 | JUC02005961.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | 2.42 | JUC02005972.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | 2.21 | JUC02005980.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | 2.12 | JUC02005966.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | -2.08 | PSR02011277.hg.1 | CBWD2, CBV |

| | | | |
|-----------------|-------|------------------|------------|
| TC02000725.hg.1 | -2.08 | PSR02011285.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | -2.21 | JUC02005965.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | -2.27 | PSR02011291.hg.1 | CBWD2, CBV |
| TC02000725.hg.1 | -2.33 | PSR02011294.hg.1 | CBWD2, CBV |
| TC02002657.hg.1 | 3.06 | PSR02042716.hg.1 | FONG |
| TC02002657.hg.1 | 2.68 | PSR02042717.hg.1 | FONG |
| TC02002657.hg.1 | 2.49 | JUC02022351.hg.1 | FONG |
| TC02002657.hg.1 | -2.14 | JUC02022350.hg.1 | FONG |
| TC02002657.hg.1 | -2.42 | PSR02042711.hg.1 | FONG |
| TC03001680.hg.1 | 3.06 | JUC03015068.hg.1 | B4GALT4 |
| TC03001680.hg.1 | 2.69 | JUC03015059.hg.1 | B4GALT4 |
| TC03001680.hg.1 | 2.45 | JUC03015056.hg.1 | B4GALT4 |
| TC03001680.hg.1 | 2.38 | JUC03015048.hg.1 | B4GALT4 |
| TC03001680.hg.1 | 2.35 | PSR03030326.hg.1 | B4GALT4 |
| TC03001680.hg.1 | -2.07 | PSR03030293.hg.1 | B4GALT4 |
| TC03003334.hg.1 | 3.06 | JUC03023258.hg.1 | DGKG |
| TC03003334.hg.1 | -2.01 | PSR03036963.hg.1 | DGKG |
| TC03003334.hg.1 | -2.31 | JUC03023273.hg.1 | DGKG |
| TC03003334.hg.1 | -2.43 | JUC03023250.hg.1 | DGKG |
| TC05000833.hg.1 | 3.06 | JUC05006267.hg.1 | SYNPO |
| TC05000833.hg.1 | 2.58 | PSR05011993.hg.1 | SYNPO |
| TC05000833.hg.1 | 2.02 | PSR05011992.hg.1 | SYNPO |
| TC07000795.hg.1 | 3.06 | JUC07005917.hg.1 | SMO |
| TC07000795.hg.1 | 2.36 | JUC07005916.hg.1 | SMO |
| TC07000795.hg.1 | 2.15 | PSR07012542.hg.1 | SMO |
| TC07000795.hg.1 | 2.01 | JUC07005904.hg.1 | SMO |
| TC0X000061.hg.1 | 3.06 | JUC0X000451.hg.1 | OFD1 |
| TC0X000061.hg.1 | 2.54 | JUC0X000480.hg.1 | OFD1 |
| TC0X000061.hg.1 | 2.1 | PSR0X000859.hg.1 | OFD1 |
| TC0X000061.hg.1 | 2.05 | JUC0X000475.hg.1 | OFD1 |
| TC0X000061.hg.1 | -3.27 | JUC0X000450.hg.1 | OFD1 |
| TC0X000963.hg.1 | 3.06 | PSR0X012851.hg.1 | BCOR |
| TC0X000963.hg.1 | 2.94 | PSR0X012832.hg.1 | BCOR |
| TC0X000963.hg.1 | 2.93 | PSR0X012855.hg.1 | BCOR |
| TC0X000963.hg.1 | 2.71 | PSR0X012860.hg.1 | BCOR |
| TC0X000963.hg.1 | 2.49 | JUC0X006448.hg.1 | BCOR |
| TC0X000963.hg.1 | 2.19 | JUC0X006432.hg.1 | BCOR |
| TC0X000963.hg.1 | 2.13 | PSR0X012861.hg.1 | BCOR |
| TC0X000963.hg.1 | 2 | JUC0X006439.hg.1 | BCOR |
| TC0X001184.hg.1 | 3.06 | PSR0X015990.hg.1 | HMG5 |
| TC0X001184.hg.1 | 2.96 | JUC0X008107.hg.1 | HMG5 |
| TC0X001184.hg.1 | 2.68 | JUC0X008108.hg.1 | HMG5 |
| TC0X001184.hg.1 | -2.05 | PSR0X015974.hg.1 | HMG5 |
| TC0X001184.hg.1 | -2.5 | JUC0X008101.hg.1 | HMG5 |
| TC0X001184.hg.1 | -2.57 | JUC0X008098.hg.1 | HMG5 |
| TC0X001184.hg.1 | -2.9 | JUC0X008104.hg.1 | HMG5 |
| TC0X001326.hg.1 | 3.06 | PSR0X017830.hg.1 | CUL4B |
| TC0X001326.hg.1 | 3 | PSR0X017832.hg.1 | CUL4B |
| TC0X001326.hg.1 | 2.68 | PSR0X017826.hg.1 | CUL4B |
| TC0X001326.hg.1 | 2.43 | PSR0X017827.hg.1 | CUL4B |
| TC0X001326.hg.1 | 2.34 | PSR0X017825.hg.1 | CUL4B |
| TC0X001326.hg.1 | 2.13 | PSR0X017817.hg.1 | CUL4B |
| TC0X001326.hg.1 | -2.39 | JUC0X009070.hg.1 | CUL4B |
| TC12001526.hg.1 | 3.06 | PSR12020042.hg.1 | KRT5 |
| TC12001526.hg.1 | 2 | PSR12020047.hg.1 | KRT5 |
| TC12001526.hg.1 | -2.01 | PSR12020050.hg.1 | KRT5 |
| TC12001526.hg.1 | -2.2 | JUC12011129.hg.1 | KRT5 |
| TC12001526.hg.1 | -2.57 | JUC12011128.hg.1 | KRT5 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC12001526.hg.1 | -4.61 | JUC12011125.hg.1 | KRT5 |
| TC12001526.hg.1 | -4.79 | JUC12011127.hg.1 | KRT5 |
| TC17000375.hg.1 | 3.06 | PSR17004749.hg.1 | MIR632, ZNF |
| TC17000375.hg.1 | 2.63 | JUC17002730.hg.1 | MIR632, ZNF |
| TC17000375.hg.1 | 2.18 | JUC17002725.hg.1 | MIR632, ZNF |
| TC6_cox_hap2000 | 3.06 | JUC6_cox_hap20020 | DDX39B, SNO |
| TC6_cox_hap2000 | 2.83 | PSR6_cox_hap20028 | DDX39B, SNO |
| TC6_cox_hap2000 | 2.54 | JUC6_cox_hap20020 | DDX39B, SNO |
| TC6_cox_hap2000 | 2.16 | PSR6_cox_hap20027 | DDX39B, SNO |
| TC6_cox_hap2000 | -2.72 | PSR6_cox_hap20027 | DDX39B, SNO |
| TC6_dbb_hap3000 | 3.06 | JUC6_dbb_hap30019 | DDX39B, SNO |
| TC6_dbb_hap3000 | 2.83 | PSR6_dbb_hap30027 | DDX39B, SNO |
| TC6_dbb_hap3000 | 2.54 | JUC6_dbb_hap30019 | DDX39B, SNO |
| TC6_dbb_hap3000 | 2.16 | PSR6_dbb_hap30027 | DDX39B, SNO |
| TC6_dbb_hap3000 | -2.72 | PSR6_dbb_hap30027 | DDX39B, SNO |
| TC6_mann_hap4000 | 3.06 | JUC6_mann_hap4000 | DDX39B, SNO |
| TC6_mann_hap4000 | 2.83 | PSR6_mann_hap4000 | DDX39B, SNO |
| TC6_mann_hap4000 | 2.54 | JUC6_mann_hap4000 | DDX39B, SNO |
| TC6_mann_hap4000 | 2.16 | PSR6_mann_hap4000 | DDX39B, SNO |
| TC6_mann_hap4000 | -2.72 | PSR6_mann_hap4000 | DDX39B, SNO |
| TC6_mcf_hap5000 | 3.06 | JUC6_mcf_hap50018 | DDX39B, SNO |
| TC6_mcf_hap5000 | 2.83 | PSR6_mcf_hap50024 | DDX39B, SNO |
| TC6_mcf_hap5000 | 2.54 | JUC6_mcf_hap50018 | DDX39B, SNO |
| TC6_mcf_hap5000 | 2.16 | PSR6_mcf_hap50024 | DDX39B, SNO |
| TC6_mcf_hap5000 | -2.72 | PSR6_mcf_hap50024 | DDX39B, SNO |
| TC6_qbl_hap60002 | 3.06 | JUC6_qbl_hap60020 | DDX39B, SNO |
| TC6_qbl_hap60002 | 2.83 | PSR6_qbl_hap60027 | DDX39B, SNO |
| TC6_qbl_hap60002 | 2.54 | JUC6_qbl_hap60020 | DDX39B, SNO |
| TC6_qbl_hap60002 | 2.16 | PSR6_qbl_hap60027 | DDX39B, SNO |
| TC6_qbl_hap60002 | -2.72 | PSR6_qbl_hap60027 | DDX39B, SNO |
| TC01002825.hg.1 | 3.05 | PSR01043966.hg.1 | MCOLN3 |
| TC01002825.hg.1 | 2.66 | PSR01043950.hg.1 | MCOLN3 |
| TC01002825.hg.1 | 2.01 | JUC01023579.hg.1 | MCOLN3 |
| TC01002825.hg.1 | 2 | PSR01043975.hg.1 | MCOLN3 |
| TC02000944.hg.1 | 3.05 | JUC02007425.hg.1 | GALNT13 |
| TC02000944.hg.1 | 2.82 | JUC02007435.hg.1 | GALNT13 |
| TC02000944.hg.1 | 2.35 | PSR02013820.hg.1 | GALNT13 |
| TC02000944.hg.1 | 2.04 | JUC02007434.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.02 | PSR02013836.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.04 | JUC02007440.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.09 | JUC02007424.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.29 | PSR02013853.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.42 | JUC02007419.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.52 | JUC02007430.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.76 | JUC02007433.hg.1 | GALNT13 |
| TC02000944.hg.1 | -2.99 | PSR02013842.hg.1 | GALNT13 |
| TC02000944.hg.1 | -3.19 | PSR02013849.hg.1 | GALNT13 |
| TC02000944.hg.1 | -3.37 | PSR02013821.hg.1 | GALNT13 |
| TC02000944.hg.1 | -3.47 | JUC02007431.hg.1 | GALNT13 |
| TC02000944.hg.1 | -3.69 | PSR02013818.hg.1 | GALNT13 |
| TC02000944.hg.1 | -4.16 | PSR02013817.hg.1 | GALNT13 |
| TC02000944.hg.1 | -4.25 | PSR02013843.hg.1 | GALNT13 |
| TC02000944.hg.1 | -5.66 | PSR02013844.hg.1 | GALNT13 |
| TC02002136.hg.1 | 3.05 | JUC02018004.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.86 | JUC02017989.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.43 | PSR02034862.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.38 | JUC02017977.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.32 | PSR02034927.hg.1 | AFF3 |

| | | | |
|-----------------|-------|------------------|--------|
| TC02002136.hg.1 | 2.26 | PSR02034899.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.24 | PSR02034913.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.18 | PSR02034907.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.17 | PSR02034905.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.12 | PSR02034902.hg.1 | AFF3 |
| TC02002136.hg.1 | 2.05 | JUC02017997.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.02 | JUC02018005.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.16 | PSR02034869.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.19 | PSR02034857.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.48 | JUC02017991.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.75 | JUC02017993.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.98 | JUC02017988.hg.1 | AFF3 |
| TC02002136.hg.1 | -2.99 | PSR02034883.hg.1 | AFF3 |
| TC02002136.hg.1 | -3.58 | JUC02018018.hg.1 | AFF3 |
| TC02002136.hg.1 | -5.35 | JUC02017990.hg.1 | AFF3 |
| TC03000087.hg.1 | 3.05 | JUC03000968.hg.1 | SLC6A6 |
| TC03000087.hg.1 | 2.17 | JUC03000958.hg.1 | SLC6A6 |
| TC03000087.hg.1 | 2.15 | JUC03000976.hg.1 | SLC6A6 |
| TC03000087.hg.1 | 2.04 | PSR03001834.hg.1 | SLC6A6 |
| TC03000634.hg.1 | 3.05 | PSR03011428.hg.1 | PARP14 |
| TC03000634.hg.1 | 2.67 | JUC03005707.hg.1 | PARP14 |
| TC03000634.hg.1 | 2.34 | PSR03011459.hg.1 | PARP14 |
| TC03000634.hg.1 | 2.02 | PSR03011462.hg.1 | PARP14 |
| TC03000634.hg.1 | -2.14 | JUC03005702.hg.1 | PARP14 |
| TC03000634.hg.1 | -2.16 | PSR03011460.hg.1 | PARP14 |
| TC03000634.hg.1 | -2.56 | PSR03011447.hg.1 | PARP14 |
| TC03001431.hg.1 | 3.05 | JUC03012618.hg.1 | NPRL2 |
| TC03001431.hg.1 | 2.28 | PSR03025803.hg.1 | NPRL2 |
| TC03001431.hg.1 | 2.13 | PSR03025794.hg.1 | NPRL2 |
| TC08000216.hg.1 | 3.05 | PSR08003107.hg.1 | ELP3 |
| TC08000216.hg.1 | 2.91 | JUC08001542.hg.1 | ELP3 |
| TC08000216.hg.1 | -2.52 | JUC08001538.hg.1 | ELP3 |
| TC09001220.hg.1 | 3.05 | PSR09015653.hg.1 | NMRK1 |
| TC09001220.hg.1 | 3.02 | JUC09008417.hg.1 | NMRK1 |
| TC09001220.hg.1 | 2.63 | PSR09015646.hg.1 | NMRK1 |
| TC09001220.hg.1 | 2.57 | PSR09015655.hg.1 | NMRK1 |
| TC09001220.hg.1 | 2.54 | JUC09008413.hg.1 | NMRK1 |
| TC09001220.hg.1 | 2.17 | PSR09015658.hg.1 | NMRK1 |
| TC09001220.hg.1 | 2.1 | PSR09015636.hg.1 | NMRK1 |
| TC11000216.hg.1 | 3.05 | PSR11002915.hg.1 | INSC |
| TC11000216.hg.1 | 2.65 | JUC11001411.hg.1 | INSC |
| TC11000216.hg.1 | -2.2 | PSR11002904.hg.1 | INSC |
| TC11000216.hg.1 | -2.37 | PSR11002896.hg.1 | INSC |
| TC12001367.hg.1 | 3.05 | PSR12017879.hg.1 | AMN1 |
| TC12001367.hg.1 | 2.86 | PSR12017881.hg.1 | AMN1 |
| TC12001367.hg.1 | 2.23 | PSR12017883.hg.1 | AMN1 |
| TC12001367.hg.1 | 2.18 | JUC12009934.hg.1 | AMN1 |
| TC12001367.hg.1 | 2.06 | PSR12017878.hg.1 | AMN1 |
| TC12001367.hg.1 | 2.05 | PSR12017861.hg.1 | AMN1 |
| TC12001367.hg.1 | -2.44 | JUC12009935.hg.1 | AMN1 |
| TC12001377.hg.1 | 3.05 | JUC12009969.hg.1 | PKP2 |
| TC12001377.hg.1 | 2.39 | JUC12009965.hg.1 | PKP2 |
| TC12001377.hg.1 | 2.15 | JUC12009960.hg.1 | PKP2 |
| TC12001377.hg.1 | -2.03 | PSR12017914.hg.1 | PKP2 |
| TC12001377.hg.1 | -2.17 | PSR12017925.hg.1 | PKP2 |
| TC12001377.hg.1 | -2.36 | PSR12017929.hg.1 | PKP2 |
| TC12001377.hg.1 | -2.4 | PSR12017932.hg.1 | PKP2 |
| TC12001377.hg.1 | -2.42 | PSR12017937.hg.1 | PKP2 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC12001377.hg.1 | -3.1 | JUC12009958.hg.1 | PKP2 |
| TC12001377.hg.1 | -3.11 | PSR12017931.hg.1 | PKP2 |
| TC12001377.hg.1 | -3.12 | PSR12017926.hg.1 | PKP2 |
| TC12001377.hg.1 | -3.75 | JUC12009971.hg.1 | PKP2 |
| TC17002870.hg.1 | 3.05 | PSR17002644.hg.1 | CCDC144A |
| TC17002870.hg.1 | 2.32 | PSR17002637.hg.1 | CCDC144A |
| TC17002870.hg.1 | 2.08 | JUC17018585.hg.1 | CCDC144A |
| TC22000165.hg.1 | 3.05 | JUC22000977.hg.1 | ADRBK2 |
| TC22000165.hg.1 | 2.62 | PSR22003107.hg.1 | ADRBK2 |
| TC22000165.hg.1 | 2.5 | JUC22000987.hg.1 | ADRBK2 |
| TC22000165.hg.1 | 2.33 | JUC22000965.hg.1 | ADRBK2 |
| TC22000165.hg.1 | 2.06 | JUC22000968.hg.1 | ADRBK2 |
| TC22000165.hg.1 | -2.55 | PSR22003113.hg.1 | ADRBK2 |
| TC22000165.hg.1 | -2.81 | JUC22000980.hg.1 | ADRBK2 |
| TC6_apd_hap1000 | 3.05 | JUC6_apd_hap1000 | DDX39B, ATF |
| TC6_apd_hap1000 | -2.73 | PSR6_apd_hap1001 | DDX39B, ATF |
| TC6_apd_hap1000 | -3.61 | PSR6_apd_hap1001 | DDX39B, ATF |
| TC01002903.hg.1 | 3.04 | JUC01024300.hg.1 | DPYD |
| TC01002903.hg.1 | -2.41 | PSR01045227.hg.1 | DPYD |
| TC04000040.hg.1 | 3.04 | JUC04000421.hg.1 | NOP14-AS1 |
| TC04000040.hg.1 | 2.28 | PSR04001049.hg.1 | NOP14-AS1 |
| TC05000730.hg.1 | 3.04 | JUC05005558.hg.1 | IK, MIR3655 |
| TC05000730.hg.1 | 2.12 | JUC05005551.hg.1 | IK, MIR3655 |
| TC05000730.hg.1 | 2.02 | PSR05010527.hg.1 | IK, MIR3655 |
| TC05002110.hg.1 | 3.04 | JUC05014829.hg.1 | PDLIM7 |
| TC05002110.hg.1 | -2.35 | PSR05029126.hg.1 | PDLIM7 |
| TC05002110.hg.1 | -2.38 | JUC05014816.hg.1 | PDLIM7 |
| TC05002110.hg.1 | -3.06 | PSR05029142.hg.1 | PDLIM7 |
| TC05002110.hg.1 | -3.35 | PSR05029143.hg.1 | PDLIM7 |
| TC07001143.hg.1 | 3.04 | PSR07017828.hg.1 | ICA1 |
| TC07001143.hg.1 | 2.69 | JUC07008646.hg.1 | ICA1 |
| TC07001143.hg.1 | 2.28 | JUC07008661.hg.1 | ICA1 |
| TC07001143.hg.1 | 2.17 | PSR07017835.hg.1 | ICA1 |
| TC07001143.hg.1 | 2.07 | PSR07017829.hg.1 | ICA1 |
| TC07001143.hg.1 | 2.04 | JUC07008663.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.02 | PSR07017816.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.04 | PSR07017838.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.08 | JUC07008674.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.09 | PSR07017852.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.12 | PSR07017819.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.16 | PSR07017820.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.22 | PSR07017809.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.39 | PSR07017822.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.39 | PSR07017823.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.4 | PSR07017858.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.5 | PSR07017837.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.5 | JUC07008647.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.6 | PSR07017834.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.81 | PSR07017849.hg.1 | ICA1 |
| TC07001143.hg.1 | -2.89 | PSR07017847.hg.1 | ICA1 |
| TC07001143.hg.1 | -4.88 | JUC07008650.hg.1 | ICA1 |
| TC07001143.hg.1 | -10.31 | JUC07008666.hg.1 | ICA1 |
| TC08001370.hg.1 | 3.04 | JUC08009012.hg.1 | ZFAND1 |
| TC08001370.hg.1 | 2.12 | JUC08008996.hg.1 | ZFAND1 |
| TC08001370.hg.1 | -2.22 | PSR08017704.hg.1 | ZFAND1 |
| TC08001370.hg.1 | -2.76 | JUC08009000.hg.1 | ZFAND1 |
| TC0X000658.hg.1 | 3.04 | JUC0X004381.hg.1 | FHL1 |
| TC0X000658.hg.1 | 3.02 | JUC0X004383.hg.1 | FHL1 |

| | | | |
|-----------------|--------|------------------|----------|
| TC0X000658.hg.1 | 2.71 | PSR0X008658.hg.1 | FHL1 |
| TC0X000658.hg.1 | 2.68 | PSR0X008660.hg.1 | FHL1 |
| TC0X000658.hg.1 | 2.03 | PSR0X008633.hg.1 | FHL1 |
| TC0X000658.hg.1 | -2.1 | JUC0X004382.hg.1 | FHL1 |
| TC0X000658.hg.1 | -4.11 | PSR0X008661.hg.1 | FHL1 |
| TC0X000658.hg.1 | -19.57 | PSR0X008662.hg.1 | FHL1 |
| TC10000848.hg.1 | 3.04 | JUC10005774.hg.1 | ENO4 |
| TC10000848.hg.1 | 2.87 | JUC10005773.hg.1 | ENO4 |
| TC10000848.hg.1 | 2.49 | PSR10010293.hg.1 | ENO4 |
| TC10000848.hg.1 | 2.42 | JUC10005783.hg.1 | ENO4 |
| TC10000848.hg.1 | 2.41 | JUC10005779.hg.1 | ENO4 |
| TC10000848.hg.1 | 2.04 | PSR10010284.hg.1 | ENO4 |
| TC13000468.hg.1 | 3.04 | PSR13005310.hg.1 | SKA3 |
| TC13000468.hg.1 | 2.89 | PSR13005323.hg.1 | SKA3 |
| TC13000468.hg.1 | 2.87 | JUC13003205.hg.1 | SKA3 |
| TC13000468.hg.1 | 2.17 | PSR13005321.hg.1 | SKA3 |
| TC13000468.hg.1 | 2.08 | PSR13005311.hg.1 | SKA3 |
| TC13000468.hg.1 | 2.04 | PSR13005322.hg.1 | SKA3 |
| TC15000449.hg.1 | 3.04 | PSR15004285.hg.1 | CCNB2 |
| TC15000449.hg.1 | 2.74 | PSR15004276.hg.1 | CCNB2 |
| TC15000449.hg.1 | 2.17 | PSR15004284.hg.1 | CCNB2 |
| TC15000449.hg.1 | -2.2 | PSR15004279.hg.1 | CCNB2 |
| TC15000449.hg.1 | -2.27 | JUC15002113.hg.1 | CCNB2 |
| TC15000449.hg.1 | -2.71 | JUC15002118.hg.1 | CCNB2 |
| TC17001644.hg.1 | 3.04 | JUC17012325.hg.1 | HOXB5 |
| TC17001644.hg.1 | -2.13 | PSR17022033.hg.1 | HOXB5 |
| TC22000370.hg.1 | 3.04 | PSR22007080.hg.1 | PARVB |
| TC22000370.hg.1 | 2.11 | JUC22002629.hg.1 | PARVB |
| TC22000370.hg.1 | 2.04 | PSR22007061.hg.1 | PARVB |
| TC01002294.hg.1 | 3.03 | PSR01035157.hg.1 | EMC1 |
| TC01002294.hg.1 | 2.83 | PSR01035181.hg.1 | EMC1 |
| TC01002294.hg.1 | 2.61 | JUC01018899.hg.1 | EMC1 |
| TC01002294.hg.1 | 2.35 | PSR01035169.hg.1 | EMC1 |
| TC01002294.hg.1 | 2.28 | PSR01035153.hg.1 | EMC1 |
| TC01002294.hg.1 | 2.18 | PSR01035175.hg.1 | EMC1 |
| TC01002294.hg.1 | -3.35 | JUC01018912.hg.1 | EMC1 |
| TC01002294.hg.1 | -9.29 | JUC01018889.hg.1 | EMC1 |
| TC01004007.hg.1 | 3.03 | JUC01031730.hg.1 | HEATR1 |
| TC01004007.hg.1 | 2.27 | JUC01031739.hg.1 | HEATR1 |
| TC01004007.hg.1 | 2.05 | PSR01060648.hg.1 | HEATR1 |
| TC01004007.hg.1 | -2.05 | JUC01031735.hg.1 | HEATR1 |
| TC01004007.hg.1 | -2.28 | JUC01031746.hg.1 | HEATR1 |
| TC02000464.hg.1 | 3.03 | PSR02007263.hg.1 | DOK1 |
| TC02000464.hg.1 | 2.92 | PSR02007262.hg.1 | DOK1 |
| TC02000464.hg.1 | 2.65 | PSR02007260.hg.1 | DOK1 |
| TC02000464.hg.1 | 2.64 | JUC02003679.hg.1 | DOK1 |
| TC02000464.hg.1 | 2.33 | JUC02003689.hg.1 | DOK1 |
| TC02000464.hg.1 | 2.24 | JUC02003684.hg.1 | DOK1 |
| TC02000464.hg.1 | -9.71 | JUC02003690.hg.1 | DOK1 |
| TC02002445.hg.1 | 3.03 | PSR02038535.hg.1 | NR4A2 |
| TC02002445.hg.1 | 2.57 | JUC02020162.hg.1 | NR4A2 |
| TC02002445.hg.1 | 2.43 | JUC02020163.hg.1 | NR4A2 |
| TC02002445.hg.1 | 2.29 | PSR02038536.hg.1 | NR4A2 |
| TC02002445.hg.1 | 2.19 | PSR02038518.hg.1 | NR4A2 |
| TC02002445.hg.1 | 2.18 | PSR02038517.hg.1 | NR4A2 |
| TC02002445.hg.1 | -2.04 | PSR02038507.hg.1 | NR4A2 |
| TC02002445.hg.1 | -2.3 | PSR02038523.hg.1 | NR4A2 |
| TC04001335.hg.1 | 3.03 | JUC04009759.hg.1 | TMEM150C |

| | | | |
|-----------------|-------|------------------|------------|
| TC04001335.hg.1 | 2.6 | JUC04009751.hg.1 | TMEM150C |
| TC04001335.hg.1 | 2.43 | JUC04009765.hg.1 | TMEM150C |
| TC04001335.hg.1 | 2.37 | JUC04009749.hg.1 | TMEM150C |
| TC04001335.hg.1 | 2.07 | PSR04018378.hg.1 | TMEM150C |
| TC04001335.hg.1 | -2.44 | JUC04009750.hg.1 | TMEM150C |
| TC04001335.hg.1 | -2.75 | JUC04009764.hg.1 | TMEM150C |
| TC04001335.hg.1 | -3.03 | JUC04009756.hg.1 | TMEM150C |
| TC04001335.hg.1 | -3.11 | JUC04009752.hg.1 | TMEM150C |
| TC04001335.hg.1 | -4.1 | PSR04018381.hg.1 | TMEM150C |
| TC04001335.hg.1 | -4.5 | PSR04018410.hg.1 | TMEM150C |
| TC04001335.hg.1 | -4.56 | JUC04009766.hg.1 | TMEM150C |
| TC04001335.hg.1 | -7.46 | PSR04018405.hg.1 | TMEM150C |
| TC04001335.hg.1 | -8.17 | PSR04018411.hg.1 | TMEM150C |
| TC04001335.hg.1 | -9.97 | PSR04018409.hg.1 | TMEM150C |
| TC04001335.hg.1 | -11.1 | PSR04018404.hg.1 | TMEM150C |
| TC05001053.hg.1 | 3.03 | JUC05007963.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.65 | PSR05015411.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.35 | PSR05015415.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.32 | PSR05015423.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.3 | PSR05015416.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.19 | JUC05007968.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.15 | PSR05015413.hg.1 | SQSTM1 |
| TC05001053.hg.1 | 2.12 | PSR05015418.hg.1 | SQSTM1 |
| TC05001053.hg.1 | -3.57 | PSR05015452.hg.1 | SQSTM1 |
| TC05001053.hg.1 | -4.37 | JUC05007969.hg.1 | SQSTM1 |
| TC05001053.hg.1 | -4.56 | PSR05015449.hg.1 | SQSTM1 |
| TC06004060.hg.1 | 3.03 | JUC06020807.hg.1 | HLA-B |
| TC06004060.hg.1 | 2.54 | PSR06017383.hg.1 | HLA-B |
| TC06004060.hg.1 | 2.28 | JUC06020797.hg.1 | HLA-B |
| TC06004060.hg.1 | 2.07 | PSR06017361.hg.1 | HLA-B |
| TC06004060.hg.1 | -2.37 | PSR06017365.hg.1 | HLA-B |
| TC06004060.hg.1 | -2.63 | JUC06020804.hg.1 | HLA-B |
| TC06004060.hg.1 | -2.93 | PSR06017382.hg.1 | HLA-B |
| TC09000536.hg.1 | 3.03 | JUC09003264.hg.1 | FSD1L |
| TC09000536.hg.1 | 2.23 | PSR09005883.hg.1 | FSD1L |
| TC09000536.hg.1 | -2.09 | JUC09003258.hg.1 | FSD1L |
| TC09000536.hg.1 | -2.18 | JUC09003270.hg.1 | FSD1L |
| TC09000536.hg.1 | -2.36 | JUC09003267.hg.1 | FSD1L |
| TC09000536.hg.1 | -2.54 | JUC09003251.hg.1 | FSD1L |
| TC09001025.hg.1 | 3.03 | JUC09007318.hg.1 | UBAP2, SNO |
| TC09001025.hg.1 | -2.03 | PSR09013435.hg.1 | UBAP2, SNO |
| TC09001025.hg.1 | -2.13 | JUC09007314.hg.1 | UBAP2, SNO |
| TC09001025.hg.1 | -2.54 | PSR09013430.hg.1 | UBAP2, SNO |
| TC10000752.hg.1 | 3.03 | PSR10008864.hg.1 | GBF1 |
| TC10000752.hg.1 | 2.19 | JUC10004942.hg.1 | GBF1 |
| TC10000764.hg.1 | 3.03 | JUC10005072.hg.1 | WBP1L |
| TC10000764.hg.1 | -2.32 | PSR10009106.hg.1 | WBP1L |
| TC10000764.hg.1 | -2.36 | PSR10009092.hg.1 | WBP1L |
| TC10000764.hg.1 | -2.47 | PSR10009105.hg.1 | WBP1L |
| TC10000764.hg.1 | -2.78 | JUC10005065.hg.1 | WBP1L |
| TC10000764.hg.1 | -3.01 | PSR10009108.hg.1 | WBP1L |
| TC10000764.hg.1 | -4.54 | JUC10005066.hg.1 | WBP1L |
| TC10001022.hg.1 | 3.03 | JUC10007378.hg.1 | KIN |
| TC10001022.hg.1 | -2.28 | PSR10012733.hg.1 | KIN |
| TC10001022.hg.1 | -2.93 | JUC10007367.hg.1 | KIN |
| TC10001022.hg.1 | -3.21 | JUC10007381.hg.1 | KIN |
| TC11001750.hg.1 | 3.03 | JUC11010992.hg.1 | NUP160 |
| TC11001750.hg.1 | -2.25 | JUC11010998.hg.1 | NUP160 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC11001750.hg.1 | -2.33 | JUC11010977.hg.1 | NUP160 |
| TC11001750.hg.1 | -2.6 | JUC11011011.hg.1 | NUP160 |
| TC11001750.hg.1 | -2.83 | PSR11020546.hg.1 | NUP160 |
| TC11001750.hg.1 | -3.63 | JUC11010979.hg.1 | NUP160 |
| TC11003478.hg.1 | 3.03 | PSR11018494.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | 2.54 | PSR11018493.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -2.73 | PSR11018500.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -3.03 | PSR11018492.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -3.24 | PSR11018497.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -3.98 | PSR11018496.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -4.76 | PSR11018488.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -6.41 | PSR11018503.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -7.4 | PSR11018486.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -7.56 | PSR11018485.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -9.13 | JUC11019453.hg.1 | SAA2, RN5S3 |
| TC11003478.hg.1 | -10.98 | JUC11019454.hg.1 | SAA2, RN5S3 |
| TC20000096.hg.1 | 3.03 | JUC20000717.hg.1 | MACROD2 |
| TC20000096.hg.1 | 2.62 | PSR20001336.hg.1 | MACROD2 |
| TC20000096.hg.1 | 2.49 | JUC20000689.hg.1 | MACROD2 |
| TC20000096.hg.1 | 2.08 | PSR20001349.hg.1 | MACROD2 |
| TC03001166.hg.1 | 3.02 | JUC03010082.hg.1 | VGLL4 |
| TC03001166.hg.1 | 2.57 | JUC03010075.hg.1 | VGLL4 |
| TC03001166.hg.1 | 2.22 | JUC03010063.hg.1 | VGLL4 |
| TC03001166.hg.1 | -2.11 | PSR03020164.hg.1 | VGLL4 |
| TC03001166.hg.1 | -2.77 | PSR03020172.hg.1 | VGLL4 |
| TC03001489.hg.1 | 3.02 | JUC03013206.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.81 | PSR03027091.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.76 | PSR03027086.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.56 | PSR03027092.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.53 | PSR03027087.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.52 | JUC03013211.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.44 | JUC03013208.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.43 | PSR03027070.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.28 | PSR03027081.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.14 | JUC03013216.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.13 | JUC03013218.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.11 | PSR03027088.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.1 | PSR03027084.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.04 | JUC03013203.hg.1 | IL17RD |
| TC03001489.hg.1 | 2.03 | JUC03013209.hg.1 | IL17RD |
| TC03001489.hg.1 | -2.26 | PSR03027074.hg.1 | IL17RD |
| TC03001489.hg.1 | -3.49 | PSR03027078.hg.1 | IL17RD |
| TC03001976.hg.1 | 3.02 | JUC03017448.hg.1 | PDCD10 |
| TC03001976.hg.1 | 2.23 | JUC03017452.hg.1 | PDCD10 |
| TC03001976.hg.1 | -2.36 | PSR03035350.hg.1 | PDCD10 |
| TC03001976.hg.1 | -2.62 | JUC03017455.hg.1 | PDCD10 |
| TC04001824.hg.1 | 3.02 | JUC04013268.hg.1 | FAT1 |
| TC04001824.hg.1 | 2.52 | JUC04013295.hg.1 | FAT1 |
| TC04001824.hg.1 | 2.23 | PSR04025123.hg.1 | FAT1 |
| TC04001824.hg.1 | 2.13 | PSR04025084.hg.1 | FAT1 |
| TC06000698.hg.1 | 3.02 | JUC06003726.hg.1 | PHF3 |
| TC06000698.hg.1 | 2.83 | PSR06008352.hg.1 | PHF3 |
| TC06000698.hg.1 | 2.04 | PSR06008328.hg.1 | PHF3 |
| TC13000502.hg.1 | 3.02 | PSR13005694.hg.1 | RNF6 |
| TC13000502.hg.1 | -2.19 | JUC13003410.hg.1 | RNF6 |
| TC19001703.hg.1 | 3.02 | PSR19023237.hg.1 | GYS1 |
| TC19001703.hg.1 | 2.79 | PSR19023246.hg.1 | GYS1 |
| TC19001703.hg.1 | 2.27 | PSR19023227.hg.1 | GYS1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC19001703.hg.1 | 2.26 | JUC19013270.hg.1 | GYS1 |
| TC19001703.hg.1 | 2.19 | JUC19013284.hg.1 | GYS1 |
| TC19001703.hg.1 | 2.13 | JUC19013277.hg.1 | GYS1 |
| TC21000135.hg.1 | 3.02 | JUC21000622.hg.1 | LINC00310 |
| TC21000135.hg.1 | 2.79 | JUC21000620.hg.1 | LINC00310 |
| TC21000135.hg.1 | 2.7 | JUC21000621.hg.1 | LINC00310 |
| TC21000135.hg.1 | 2.09 | PSR21001160.hg.1 | LINC00310 |
| TC21000135.hg.1 | -2.71 | JUC21000619.hg.1 | LINC00310 |
| TC01001144.hg.1 | 3.01 | JUC01009778.hg.1 | NBPF16, NBF |
| TC01001144.hg.1 | 2.06 | PSR01017777.hg.1 | NBPF16, NBF |
| TC01001144.hg.1 | -2.09 | JUC01009773.hg.1 | NBPF16, NBF |
| TC04001459.hg.1 | 3.01 | JUC04010797.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.19 | PSR04020637.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.27 | PSR04020643.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.36 | PSR04020619.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.58 | PSR04020600.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.65 | PSR04020638.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.82 | JUC04010814.hg.1 | LEF1 |
| TC04001459.hg.1 | -2.86 | PSR04020616.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.01 | PSR04020614.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.1 | JUC04010790.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.24 | PSR04020642.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.39 | PSR04020653.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.46 | PSR04020625.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.7 | JUC04010801.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.92 | PSR04020615.hg.1 | LEF1 |
| TC04001459.hg.1 | -3.97 | PSR04020630.hg.1 | LEF1 |
| TC04001459.hg.1 | -4.06 | PSR04020644.hg.1 | LEF1 |
| TC04001459.hg.1 | -4.51 | JUC04010798.hg.1 | LEF1 |
| TC04001459.hg.1 | -5.57 | PSR04020617.hg.1 | LEF1 |
| TC04001459.hg.1 | -6.64 | PSR04020610.hg.1 | LEF1 |
| TC04001459.hg.1 | -6.67 | JUC04010809.hg.1 | LEF1 |
| TC06000328.hg.1 | 3.01 | PSR06002682.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.88 | PSR06002653.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.62 | PSR06002663.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.5 | PSR06002651.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.33 | PSR06002680.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.32 | PSR06002655.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.2 | PSR06002668.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.19 | PSR06002677.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.12 | JUC06001194.hg.1 | HLA-A |
| TC06000328.hg.1 | 2.04 | PSR06002654.hg.1 | HLA-A |
| TC06000328.hg.1 | -2.29 | JUC06001191.hg.1 | HLA-A |
| TC06000328.hg.1 | -3.82 | JUC06001187.hg.1 | HLA-A |
| TC06000328.hg.1 | -4.35 | PSR06002679.hg.1 | HLA-A |
| TC06001965.hg.1 | 3.01 | JUC06011876.hg.1 | USP45 |
| TC06001965.hg.1 | 2.06 | PSR06024260.hg.1 | USP45 |
| TC06001965.hg.1 | -2.84 | JUC06011899.hg.1 | USP45 |
| TC07001931.hg.1 | 3.01 | PSR07030029.hg.1 | FLJ40852 |
| TC07001931.hg.1 | 2.83 | PSR07030028.hg.1 | FLJ40852 |
| TC07001931.hg.1 | -2.27 | JUC07014890.hg.1 | FLJ40852 |
| TC07001931.hg.1 | -3.39 | PSR07030019.hg.1 | FLJ40852 |
| TC08000203.hg.1 | 3.01 | JUC08001409.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.99 | PSR08002869.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.98 | PSR08002865.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.92 | PSR08002878.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.8 | PSR08002888.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.71 | PSR08002874.hg.1 | DPYSL2 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC08000203.hg.1 | 2.56 | JUC08001407.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.26 | PSR08002862.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.21 | PSR08002861.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.2 | JUC08001418.hg.1 | DPYSL2 |
| TC08000203.hg.1 | 2.16 | PSR08002879.hg.1 | DPYSL2 |
| TC08000203.hg.1 | -2.05 | JUC08001410.hg.1 | DPYSL2 |
| TC08000203.hg.1 | -2.3 | JUC08001413.hg.1 | DPYSL2 |
| TC08001705.hg.1 | 3.01 | JUC08011525.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.94 | PSR08022420.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.91 | PSR08022421.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.76 | PSR08022439.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.34 | JUC08011533.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.12 | JUC08011529.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.09 | PSR08022424.hg.1 | LYNX1 |
| TC08001705.hg.1 | 2.09 | PSR08022435.hg.1 | LYNX1 |
| TC0X000809.hg.1 | 3.01 | PSR0X011080.hg.1 | PRKX |
| TC0X000809.hg.1 | 2.42 | JUC0X005424.hg.1 | PRKX |
| TC0X000809.hg.1 | 2.36 | PSR0X011101.hg.1 | PRKX |
| TC0X000809.hg.1 | 2.36 | PSR0X011102.hg.1 | PRKX |
| TC0X000809.hg.1 | 2.22 | PSR0X011086.hg.1 | PRKX |
| TC0X000809.hg.1 | -2.04 | JUC0X005428.hg.1 | PRKX |
| TC12001791.hg.1 | 3.01 | JUC12013087.hg.1 | CEP290 |
| TC12001791.hg.1 | 2.61 | JUC12013097.hg.1 | CEP290 |
| TC12001791.hg.1 | 2.12 | JUC12013130.hg.1 | CEP290 |
| TC12001791.hg.1 | -2.01 | PSR12023682.hg.1 | CEP290 |
| TC12001791.hg.1 | -2.75 | JUC12013122.hg.1 | CEP290 |
| TC12001791.hg.1 | -2.79 | JUC12013116.hg.1 | CEP290 |
| TC12001791.hg.1 | -3.98 | JUC12013086.hg.1 | CEP290 |
| TC15001469.hg.1 | 3.01 | PSR15013760.hg.1 | PRTG |
| TC15001469.hg.1 | 2.39 | JUC15007381.hg.1 | PRTG |
| TC15001469.hg.1 | -2.14 | JUC15007383.hg.1 | PRTG |
| TC21000267.hg.1 | 3.01 | JUC21001805.hg.1 | TEKT4P2, LC |
| TC21000267.hg.1 | 2.52 | JUC21001808.hg.1 | TEKT4P2, LC |
| TC21000267.hg.1 | 2.04 | JUC21001804.hg.1 | TEKT4P2, LC |
| TC21000267.hg.1 | -2.48 | PSR21003353.hg.1 | TEKT4P2, LC |
| TC6_mcf_hap5000 | 3.01 | JUC6_mcf_hap50015 | HLA-B |
| TC6_mcf_hap5000 | 2.32 | JUC6_mcf_hap50015 | HLA-B |
| TC6_mcf_hap5000 | 2.27 | PSR6_mcf_hap50024 | HLA-B |
| TC6_mcf_hap5000 | 2.26 | JUC6_mcf_hap50014 | HLA-B |
| TC6_mcf_hap5000 | 2.16 | PSR6_mcf_hap50024 | HLA-B |
| TC6_mcf_hap5000 | 2.07 | PSR6_mcf_hap50024 | HLA-B |
| TC6_ssto_hap7000 | 3.01 | PSR6_ssto_hap7003 | PSMB8 |
| TC6_ssto_hap7000 | 2.38 | JUC6_ssto_hap7001 | PSMB8 |
| TC6_ssto_hap7000 | -3.15 | PSR6_ssto_hap7003 | PSMB8 |
| TC6_ssto_hap7000 | 3.01 | JUC6_ssto_hap7001 | DDX39B, SNO |
| TC6_ssto_hap7000 | 2.78 | PSR6_ssto_hap7002 | DDX39B, SNO |
| TC6_ssto_hap7000 | 2.12 | PSR6_ssto_hap7002 | DDX39B, SNO |
| TC6_ssto_hap7000 | -2.77 | PSR6_ssto_hap7002 | DDX39B, SNO |
| TC6_ssto_hap7000 | -3.66 | PSR6_ssto_hap7002 | DDX39B, SNO |
| TC01003883.hg.1 | 3 | JUC01031010.hg.1 | WDR26 |
| TC01003883.hg.1 | 2.56 | PSR01059192.hg.1 | WDR26 |
| TC01006323.hg.1 | 3 | JUC01044045.hg.1 | HEATR8 |
| TC01006323.hg.1 | -2.07 | PSR01010821.hg.1 | HEATR8 |
| TC01006323.hg.1 | -2.23 | PSR01010818.hg.1 | HEATR8 |
| TC02001893.hg.1 | 3 | JUC02015964.hg.1 | XPO1 |
| TC02001893.hg.1 | 2.96 | PSR02030318.hg.1 | XPO1 |
| TC02001893.hg.1 | 2.63 | PSR02030345.hg.1 | XPO1 |
| TC02001893.hg.1 | 2.48 | PSR02030316.hg.1 | XPO1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC02001893.hg.1 | 2.39 | PSR02030348.hg.1 | XPO1 |
| TC02001893.hg.1 | 2.16 | PSR02030351.hg.1 | XPO1 |
| TC02001893.hg.1 | 2.06 | PSR02030288.hg.1 | XPO1 |
| TC02001893.hg.1 | 2.01 | PSR02030343.hg.1 | XPO1 |
| TC06001195.hg.1 | 3 | JUC06007077.hg.1 | C6orf70 |
| TC06001195.hg.1 | -2.03 | PSR06014278.hg.1 | C6orf70 |
| TC06001195.hg.1 | -2.89 | JUC06007089.hg.1 | C6orf70 |
| TC06001195.hg.1 | -2.99 | PSR06014270.hg.1 | C6orf70 |
| TC07000520.hg.1 | 3 | JUC07003503.hg.1 | DMTF1 |
| TC07000520.hg.1 | -2.54 | PSR07007337.hg.1 | DMTF1 |
| TC07000520.hg.1 | -2.94 | PSR07007338.hg.1 | DMTF1 |
| TC07000520.hg.1 | -3.74 | PSR07007343.hg.1 | DMTF1 |
| TC07001955.hg.1 | 3 | JUC07014953.hg.1 | TRBV10-1 |
| TC07001955.hg.1 | 2.23 | PSR07030190.hg.1 | TRBV10-1 |
| TC08000019.hg.1 | 3 | JUC08000170.hg.1 | |
| TC08000019.hg.1 | 2.12 | PSR08000305.hg.1 | |
| TC0X000038.hg.1 | 3 | JUC0X000309.hg.1 | CLCN4 |
| TC0X000038.hg.1 | 2.27 | JUC0X000301.hg.1 | CLCN4 |
| TC0X000038.hg.1 | 2.02 | PSR0X000540.hg.1 | CLCN4 |
| TC0X000038.hg.1 | -2.13 | JUC0X000302.hg.1 | CLCN4 |
| TC0X000038.hg.1 | -3.87 | JUC0X000296.hg.1 | CLCN4 |
| TC0X001544.hg.1 | 3 | PSR0X020691.hg.1 | MPP1 |
| TC0X001544.hg.1 | 2.78 | JUC0X010326.hg.1 | MPP1 |
| TC0X001544.hg.1 | 2.39 | JUC0X010322.hg.1 | MPP1 |
| TC0X001544.hg.1 | 2.2 | PSR0X020686.hg.1 | MPP1 |
| TC0X001544.hg.1 | -2.79 | JUC0X010337.hg.1 | MPP1 |
| TC12003260.hg.1 | 3 | JUC12020197.hg.1 | WDR66 |
| TC12003260.hg.1 | 2.85 | PSR12012606.hg.1 | WDR66 |
| TC12003260.hg.1 | 2.6 | JUC12020179.hg.1 | WDR66 |
| TC12003260.hg.1 | 2.12 | JUC12020188.hg.1 | WDR66 |
| TC13000484.hg.1 | 3 | JUC13003295.hg.1 | MIPEP |
| TC13000484.hg.1 | 2.44 | JUC13003277.hg.1 | MIPEP |
| TC13000484.hg.1 | -2.1 | JUC13003286.hg.1 | MIPEP |
| TC13000484.hg.1 | -2.36 | JUC13003296.hg.1 | MIPEP |
| TC13000484.hg.1 | -3.28 | PSR13005460.hg.1 | MIPEP |
| TC18000051.hg.1 | 3 | JUC18000348.hg.1 | APCDD1 |
| TC18000051.hg.1 | 2.56 | PSR18000560.hg.1 | APCDD1 |
| TC18000051.hg.1 | 2.08 | PSR18000557.hg.1 | APCDD1 |
| TC18000051.hg.1 | -2.68 | PSR18000552.hg.1 | APCDD1 |
| TC18000051.hg.1 | -3.5 | PSR18000553.hg.1 | APCDD1 |
| TC01002493.hg.1 | 2.99 | JUC01020793.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.9 | JUC01020783.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.89 | PSR01038690.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.81 | PSR01038686.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.77 | JUC01020789.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.71 | JUC01020787.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.67 | JUC01020781.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.56 | PSR01038689.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.54 | PSR01038682.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.49 | PSR01038692.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.49 | PSR01038694.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.46 | PSR01038685.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.45 | PSR01038684.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.34 | PSR01038680.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.3 | PSR01038683.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.22 | JUC01020786.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.17 | PSR01038687.hg.1 | SFPQ |
| TC01002493.hg.1 | 2.16 | PSR01038688.hg.1 | SFPQ |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01002493.hg.1 | -2.01 | JUC01020790.hg.1 | SFPQ |
| TC01002493.hg.1 | -2.64 | JUC01020779.hg.1 | SFPQ |
| TC02001320.hg.1 | 2.99 | PSR02020512.hg.1 | ANKZF1 |
| TC02001320.hg.1 | 2.71 | JUC02010955.hg.1 | ANKZF1 |
| TC02001320.hg.1 | 2.16 | JUC02010941.hg.1 | ANKZF1 |
| TC02001320.hg.1 | -2.15 | PSR02020466.hg.1 | ANKZF1 |
| TC02001320.hg.1 | -2.63 | PSR02020465.hg.1 | ANKZF1 |
| TC02001320.hg.1 | -2.68 | PSR02020464.hg.1 | ANKZF1 |
| TC02001753.hg.1 | 2.99 | JUC02014748.hg.1 | ATL2 |
| TC02001753.hg.1 | 2.51 | JUC02014761.hg.1 | ATL2 |
| TC02001753.hg.1 | 2.37 | JUC02014769.hg.1 | ATL2 |
| TC02001753.hg.1 | 2.28 | JUC02014750.hg.1 | ATL2 |
| TC02001753.hg.1 | 2.19 | PSR02028197.hg.1 | ATL2 |
| TC02001753.hg.1 | 2.01 | JUC02014755.hg.1 | ATL2 |
| TC02002195.hg.1 | 2.99 | JUC02018360.hg.1 | NPHP1 |
| TC02002195.hg.1 | 2.55 | JUC02018355.hg.1 | NPHP1 |
| TC02002195.hg.1 | 2.05 | JUC02018368.hg.1 | NPHP1 |
| TC02002195.hg.1 | -2.37 | JUC02018362.hg.1 | NPHP1 |
| TC02002195.hg.1 | -2.76 | JUC02018345.hg.1 | NPHP1 |
| TC02002195.hg.1 | -2.96 | PSR02035552.hg.1 | NPHP1 |
| TC02002195.hg.1 | -3.62 | JUC02018348.hg.1 | NPHP1 |
| TC03001010.hg.1 | 2.99 | JUC03009101.hg.1 | MAP3K13 |
| TC03001010.hg.1 | 2.63 | JUC03009091.hg.1 | MAP3K13 |
| TC03001010.hg.1 | 2.24 | JUC03009106.hg.1 | MAP3K13 |
| TC03001010.hg.1 | 2.08 | PSR03017916.hg.1 | MAP3K13 |
| TC03001010.hg.1 | 2.04 | PSR03017913.hg.1 | MAP3K13 |
| TC03001010.hg.1 | 2.01 | JUC03009108.hg.1 | MAP3K13 |
| TC05001558.hg.1 | 2.99 | PSR05021273.hg.1 | EDIL3 |
| TC05001558.hg.1 | -4.77 | JUC05010963.hg.1 | EDIL3 |
| TC06001094.hg.1 | 2.99 | PSR06012912.hg.1 | PLEKHG1 |
| TC06001094.hg.1 | 2.13 | JUC06006349.hg.1 | PLEKHG1 |
| TC06001094.hg.1 | 2.02 | JUC06006365.hg.1 | PLEKHG1 |
| TC06001094.hg.1 | -2.03 | JUC06006345.hg.1 | PLEKHG1 |
| TC06001094.hg.1 | -2.26 | PSR06012928.hg.1 | PLEKHG1 |
| TC06001094.hg.1 | -2.69 | JUC06006356.hg.1 | PLEKHG1 |
| TC06001094.hg.1 | -3.3 | PSR06012924.hg.1 | PLEKHG1 |
| TC07000539.hg.1 | 2.99 | JUC07003695.hg.1 | C7orf63 |
| TC07000539.hg.1 | 2.65 | JUC07003696.hg.1 | C7orf63 |
| TC07000539.hg.1 | 2.21 | PSR07007687.hg.1 | C7orf63 |
| TC07000539.hg.1 | 2.15 | JUC07003689.hg.1 | C7orf63 |
| TC07000539.hg.1 | 2.13 | JUC07003685.hg.1 | C7orf63 |
| TC07000539.hg.1 | -2.08 | JUC07003679.hg.1 | C7orf63 |
| TC07000539.hg.1 | -2.18 | PSR07007673.hg.1 | C7orf63 |
| TC09001488.hg.1 | 2.99 | JUC09010047.hg.1 | PTBP3, MIR3 |
| TC09001488.hg.1 | 2.73 | PSR09018496.hg.1 | PTBP3, MIR3 |
| TC15001620.hg.1 | 2.99 | JUC15008484.hg.1 | MYO9A |
| TC15001620.hg.1 | 2.61 | JUC15008518.hg.1 | MYO9A |
| TC15001620.hg.1 | 2.37 | JUC15008512.hg.1 | MYO9A |
| TC15001620.hg.1 | 2.25 | JUC15008516.hg.1 | MYO9A |
| TC15001620.hg.1 | -2.03 | PSR15015634.hg.1 | MYO9A |
| TC15001620.hg.1 | -2.05 | JUC15008489.hg.1 | MYO9A |
| TC17000531.hg.1 | 2.99 | JUC17003609.hg.1 | TUBG1 |
| TC17000531.hg.1 | 2.23 | PSR17006433.hg.1 | TUBG1 |
| TC17002892.hg.1 | 2.99 | JUC17018891.hg.1 | CCDC144B, C |
| TC17002892.hg.1 | 2.72 | PSR17016545.hg.1 | CCDC144B, C |
| TC17002892.hg.1 | 2.7 | PSR17016547.hg.1 | CCDC144B, C |
| TC17002892.hg.1 | 2.42 | JUC17018896.hg.1 | CCDC144B, C |
| TC17002892.hg.1 | 2.25 | JUC17018897.hg.1 | CCDC144B, C |

| | | | |
|------------------|-------|-------------------|-------------|
| TC17002892.hg.1 | 2.15 | PSR17016546.hg.1 | CCDC144B, C |
| TC17002892.hg.1 | 2.02 | JUC17018885.hg.1 | CCDC144B, C |
| TC17002892.hg.1 | -2.57 | JUC17018880.hg.1 | CCDC144B, C |
| TC22000598.hg.1 | 2.99 | PSR22010521.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.75 | PSR22010527.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.66 | PSR22010529.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.63 | PSR22010526.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.41 | JUC22004262.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.38 | PSR22010540.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.2 | JUC22004257.hg.1 | LRP5L |
| TC22000598.hg.1 | 2.08 | PSR22010542.hg.1 | LRP5L |
| TC22000598.hg.1 | -2.25 | JUC22004258.hg.1 | LRP5L |
| TC6_cox_hap2000 | 2.99 | JUC6_cox_hap20010 | BAG6 |
| TC6_cox_hap2000 | 2.51 | PSR6_cox_hap20028 | BAG6 |
| TC6_cox_hap2000 | 2.32 | PSR6_cox_hap20029 | BAG6 |
| TC6_cox_hap2000 | 2.32 | JUC6_cox_hap20010 | BAG6 |
| TC6_cox_hap2000 | 2.31 | JUC6_cox_hap20010 | BAG6 |
| TC6_cox_hap2000 | 2.26 | PSR6_cox_hap20029 | BAG6 |
| TC6_cox_hap2000 | 2.23 | JUC6_cox_hap20010 | BAG6 |
| TC6_cox_hap2000 | 2.11 | PSR6_cox_hap20028 | BAG6 |
| TC6_cox_hap2000 | 2.1 | PSR6_cox_hap20028 | BAG6 |
| TC6_cox_hap2000 | 2.02 | JUC6_cox_hap20010 | BAG6 |
| TC6_cox_hap2000 | 2.01 | PSR6_cox_hap20029 | BAG6 |
| TC6_dbb_hap3000 | 2.99 | JUC6_dbb_hap30010 | BAG6 |
| TC6_dbb_hap3000 | 2.51 | PSR6_dbb_hap30021 | BAG6 |
| TC6_dbb_hap3000 | 2.32 | PSR6_dbb_hap30021 | BAG6 |
| TC6_dbb_hap3000 | 2.32 | JUC6_dbb_hap30010 | BAG6 |
| TC6_dbb_hap3000 | 2.31 | JUC6_dbb_hap30010 | BAG6 |
| TC6_dbb_hap3000 | 2.26 | PSR6_dbb_hap30021 | BAG6 |
| TC6_dbb_hap3000 | 2.23 | JUC6_dbb_hap30010 | BAG6 |
| TC6_dbb_hap3000 | 2.1 | PSR6_dbb_hap30021 | BAG6 |
| TC6_dbb_hap3000 | 2.02 | JUC6_dbb_hap30010 | BAG6 |
| TC6_dbb_hap3000 | 2.01 | PSR6_dbb_hap30021 | BAG6 |
| TC6_mann_hap4000 | 2.99 | JUC6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.51 | PSR6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.32 | PSR6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.32 | JUC6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.31 | JUC6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.26 | PSR6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.23 | JUC6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.1 | PSR6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.02 | JUC6_mann_hap4000 | BAG6 |
| TC6_mann_hap4000 | 2.01 | PSR6_mann_hap4000 | BAG6 |
| TC6_ssto_hap7000 | 2.99 | JUC6_ssto_hap7000 | BAG6 |
| TC6_ssto_hap7000 | 2.51 | PSR6_ssto_hap7002 | BAG6 |
| TC6_ssto_hap7000 | 2.32 | PSR6_ssto_hap7002 | BAG6 |
| TC6_ssto_hap7000 | 2.32 | JUC6_ssto_hap7000 | BAG6 |
| TC6_ssto_hap7000 | 2.31 | JUC6_ssto_hap7000 | BAG6 |
| TC6_ssto_hap7000 | 2.26 | PSR6_ssto_hap7002 | BAG6 |
| TC6_ssto_hap7000 | 2.23 | JUC6_ssto_hap7000 | BAG6 |
| TC6_ssto_hap7000 | 2.11 | PSR6_ssto_hap7002 | BAG6 |
| TC6_ssto_hap7000 | 2.1 | PSR6_ssto_hap7002 | BAG6 |
| TC6_ssto_hap7000 | 2.02 | JUC6_ssto_hap7000 | BAG6 |
| TC6_ssto_hap7000 | 2.01 | PSR6_ssto_hap7002 | BAG6 |
| TC01001522.hg.1 | 2.98 | JUC01012434.hg.1 | RABGAP1L |
| TC01001522.hg.1 | 2.86 | PSR01023551.hg.1 | RABGAP1L |
| TC01001522.hg.1 | 2.33 | JUC01012417.hg.1 | RABGAP1L |
| TC01001522.hg.1 | 2.31 | PSR01023522.hg.1 | RABGAP1L |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01001522.hg.1 | -2.17 | JUC01012453.hg.1 | RABGAP1L |
| TC01001522.hg.1 | -2.3 | PSR01023540.hg.1 | RABGAP1L |
| TC01006356.hg.1 | 2.98 | PSR01041030.hg.1 | KIAA0494 |
| TC01006356.hg.1 | 2.18 | JUC01044437.hg.1 | KIAA0494 |
| TC02005029.hg.1 | 2.98 | JUC02032467.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | 2.26 | JUC02032455.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | 2.17 | JUC02032432.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | 2.13 | PSR02031058.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | 2.04 | JUC02032435.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | -2.01 | JUC02032447.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | -2.04 | JUC02032452.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | -2.17 | PSR02031027.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | -2.58 | JUC02032425.hg.1 | PCBP1-AS1 |
| TC02005029.hg.1 | -3.44 | JUC02032461.hg.1 | PCBP1-AS1 |
| TC03000162.hg.1 | 2.98 | JUC03001538.hg.1 | CNOT10 |
| TC03000162.hg.1 | 2.67 | JUC03001525.hg.1 | CNOT10 |
| TC03000162.hg.1 | -2.18 | PSR03002869.hg.1 | CNOT10 |
| TC03000162.hg.1 | -2.37 | PSR03002897.hg.1 | CNOT10 |
| TC05000707.hg.1 | 2.98 | JUC05005305.hg.1 | MATR3, SNH |
| TC05000707.hg.1 | 2.93 | JUC05005336.hg.1 | MATR3, SNH |
| TC05000707.hg.1 | 2.92 | JUC05005334.hg.1 | MATR3, SNH |
| TC05000707.hg.1 | 2.74 | JUC05005349.hg.1 | MATR3, SNH |
| TC05000707.hg.1 | 2.5 | PSR05009994.hg.1 | MATR3, SNH |
| TC05000707.hg.1 | 2.25 | JUC05005331.hg.1 | MATR3, SNH |
| TC05000707.hg.1 | -2.01 | PSR05010044.hg.1 | MATR3, SNH |
| TC06001217.hg.1 | 2.98 | PSR06014495.hg.1 | SERPINB1 |
| TC06001217.hg.1 | 2.11 | PSR06014489.hg.1 | SERPINB1 |
| TC06001217.hg.1 | -3.22 | JUC06007206.hg.1 | SERPINB1 |
| TC06004114.hg.1 | 2.98 | JUC06021555.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | 2.76 | PSR06017458.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | 2.45 | JUC06021570.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | 2.11 | PSR06017449.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | 2.06 | PSR06017473.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | -2.03 | PSR06017471.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | -3.69 | PSR06017436.hg.1 | DDX39B, SNH |
| TC06004114.hg.1 | -4.07 | PSR06017437.hg.1 | DDX39B, SNH |
| TC07001877.hg.1 | 2.98 | JUC07014370.hg.1 | PLXNA4 |
| TC07001877.hg.1 | 2.34 | JUC07014364.hg.1 | PLXNA4 |
| TC07001877.hg.1 | 2.3 | PSR07029068.hg.1 | PLXNA4 |
| TC07001877.hg.1 | -2.39 | JUC07014359.hg.1 | PLXNA4 |
| TC09001258.hg.1 | 2.98 | JUC09008502.hg.1 | TLE1 |
| TC09001258.hg.1 | 2.1 | PSR09015824.hg.1 | TLE1 |
| TC09001258.hg.1 | 2.02 | JUC09008491.hg.1 | TLE1 |
| TC09001258.hg.1 | -2.97 | JUC09008503.hg.1 | TLE1 |
| TC0X000826.hg.1 | 2.98 | JUC0X005503.hg.1 | HDHD1 |
| TC0X000826.hg.1 | 2.9 | PSR0X011236.hg.1 | HDHD1 |
| TC0X000826.hg.1 | 2.49 | JUC0X005500.hg.1 | HDHD1 |
| TC0X000826.hg.1 | 2.38 | PSR0X011245.hg.1 | HDHD1 |
| TC0X000826.hg.1 | 2.11 | JUC0X005502.hg.1 | HDHD1 |
| TC0X000826.hg.1 | -2.27 | JUC0X005507.hg.1 | HDHD1 |
| TC0X000826.hg.1 | -5.07 | PSR0X011227.hg.1 | HDHD1 |
| TC0X001067.hg.1 | 2.98 | JUC0X007327.hg.1 | HUWE1 |
| TC0X001067.hg.1 | 2.45 | JUC0X007322.hg.1 | HUWE1 |
| TC0X001067.hg.1 | 2.03 | JUC0X007257.hg.1 | HUWE1 |
| TC0X001067.hg.1 | 2.01 | PSR0X014423.hg.1 | HUWE1 |
| TC0X001067.hg.1 | -2.01 | JUC0X007326.hg.1 | HUWE1 |
| TC0X001067.hg.1 | -2.11 | PSR0X014469.hg.1 | HUWE1 |
| TC12001829.hg.1 | 2.98 | JUC12013384.hg.1 | FGD6 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12001829.hg.1 | 2.76 | JUC12013389.hg.1 | FGD6 |
| TC12001829.hg.1 | 2.68 | PSR12024106.hg.1 | FGD6 |
| TC12001829.hg.1 | 2.23 | JUC12013379.hg.1 | FGD6 |
| TC15002776.hg.1 | 2.98 | JUC15013452.hg.1 | PKM |
| TC15002776.hg.1 | 2.78 | PSR15015695.hg.1 | PKM |
| TC15002776.hg.1 | 2.65 | PSR15015694.hg.1 | PKM |
| TC15002776.hg.1 | 2.42 | JUC15013464.hg.1 | PKM |
| TC15002776.hg.1 | 2.31 | JUC15013449.hg.1 | PKM |
| TC15002776.hg.1 | 2.21 | JUC15013461.hg.1 | PKM |
| TC15002776.hg.1 | 2.16 | JUC15013457.hg.1 | PKM |
| TC15002776.hg.1 | 2.07 | JUC15013441.hg.1 | PKM |
| TC15002776.hg.1 | 2.04 | PSR15015688.hg.1 | PKM |
| TC15002776.hg.1 | 2.02 | PSR15015693.hg.1 | PKM |
| TC17000872.hg.1 | 2.98 | JUC17006321.hg.1 | SPHK1 |
| TC17000872.hg.1 | -2.07 | PSR17011324.hg.1 | SPHK1 |
| TC01001385.hg.1 | 2.97 | JUC01011621.hg.1 | SDHC |
| TC01001385.hg.1 | 2.26 | PSR01021915.hg.1 | SDHC |
| TC01001385.hg.1 | 2.11 | JUC01011618.hg.1 | SDHC |
| TC01001385.hg.1 | -2.35 | JUC01011614.hg.1 | SDHC |
| TC01001385.hg.1 | -2.52 | JUC01011612.hg.1 | SDHC |
| TC01001559.hg.1 | 2.97 | PSR01024116.hg.1 | QSOX1, FLJ2 |
| TC01001559.hg.1 | 2.96 | JUC01012791.hg.1 | QSOX1, FLJ2 |
| TC01001559.hg.1 | -3.77 | JUC01012795.hg.1 | QSOX1, FLJ2 |
| TC02005001.hg.1 | 2.97 | JUC02031987.hg.1 | BBS5 |
| TC02005001.hg.1 | 2.3 | JUC02031976.hg.1 | BBS5 |
| TC02005001.hg.1 | 2.25 | PSR02014653.hg.1 | BBS5 |
| TC02005001.hg.1 | 2.25 | JUC02031985.hg.1 | BBS5 |
| TC02005001.hg.1 | 2.01 | PSR02014677.hg.1 | BBS5 |
| TC02005001.hg.1 | -2.59 | JUC02031986.hg.1 | BBS5 |
| TC02005010.hg.1 | 2.97 | PSR02021537.hg.1 | SP140L |
| TC02005010.hg.1 | 2.67 | JUC02032106.hg.1 | SP140L |
| TC02005010.hg.1 | 2.05 | PSR02021539.hg.1 | SP140L |
| TC02005010.hg.1 | -2.33 | JUC02032097.hg.1 | SP140L |
| TC03000046.hg.1 | 2.97 | PSR03001038.hg.1 | IL17RE |
| TC03000046.hg.1 | 2.03 | PSR03001045.hg.1 | IL17RE |
| TC03000046.hg.1 | -2 | JUC03000513.hg.1 | IL17RE |
| TC03000046.hg.1 | -2.77 | JUC03000512.hg.1 | IL17RE |
| TC03000046.hg.1 | -2.81 | PSR03001031.hg.1 | IL17RE |
| TC03000046.hg.1 | -2.96 | PSR03001029.hg.1 | IL17RE |
| TC03001527.hg.1 | 2.97 | JUC03013618.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | 2.8 | JUC03013616.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | 2.25 | JUC03013622.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2 | JUC03013609.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.09 | JUC03013628.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.13 | PSR03027806.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.16 | PSR03027759.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.23 | PSR03027788.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.28 | JUC03013603.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.31 | JUC03013624.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.53 | JUC03013606.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.74 | JUC03013620.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.79 | PSR03027767.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.86 | JUC03013636.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.87 | JUC03013615.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -2.99 | PSR03027777.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -3.06 | JUC03013638.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -3.1 | PSR03027809.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -3.52 | PSR03027800.hg.1 | ADAMTS9 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC03001527.hg.1 | -3.56 | PSR03027801.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -5.6 | PSR03027765.hg.1 | ADAMTS9 |
| TC03001527.hg.1 | -6.77 | PSR03027754.hg.1 | ADAMTS9 |
| TC04000548.hg.1 | 2.97 | JUC04004206.hg.1 | NPNT |
| TC04000548.hg.1 | 2.11 | PSR04008005.hg.1 | NPNT |
| TC04000548.hg.1 | -2.16 | JUC04004217.hg.1 | NPNT |
| TC04000548.hg.1 | -2.29 | PSR04008015.hg.1 | NPNT |
| TC04000548.hg.1 | -2.54 | PSR04008023.hg.1 | NPNT |
| TC04000548.hg.1 | -3.26 | JUC04004216.hg.1 | NPNT |
| TC05001573.hg.1 | 2.97 | PSR05021340.hg.1 | TMEM161B |
| TC05001573.hg.1 | 2.94 | JUC05011001.hg.1 | TMEM161B |
| TC05001573.hg.1 | 2.83 | JUC05011003.hg.1 | TMEM161B |
| TC05001573.hg.1 | 2.15 | JUC05010998.hg.1 | TMEM161B |
| TC05001573.hg.1 | -2.22 | JUC05011000.hg.1 | TMEM161B |
| TC05001936.hg.1 | 2.97 | PSR05026835.hg.1 | CD74 |
| TC05001936.hg.1 | 2.7 | PSR05026841.hg.1 | CD74 |
| TC05001936.hg.1 | 2.62 | PSR05026828.hg.1 | CD74 |
| TC05001936.hg.1 | 2.43 | PSR05026831.hg.1 | CD74 |
| TC05001936.hg.1 | 2.41 | PSR05026840.hg.1 | CD74 |
| TC05001936.hg.1 | 2.34 | JUC05013666.hg.1 | CD74 |
| TC05001936.hg.1 | 2.19 | PSR05026849.hg.1 | CD74 |
| TC05001936.hg.1 | 2.08 | JUC05013658.hg.1 | CD74 |
| TC05001936.hg.1 | -2.73 | PSR05026834.hg.1 | CD74 |
| TC05001936.hg.1 | -3.69 | PSR05026838.hg.1 | CD74 |
| TC05001936.hg.1 | -4.08 | JUC05013669.hg.1 | CD74 |
| TC06001941.hg.1 | 2.97 | JUC06011575.hg.1 | RRAGD |
| TC06001941.hg.1 | 2.42 | PSR06023802.hg.1 | RRAGD |
| TC06001941.hg.1 | 2.24 | PSR06023799.hg.1 | RRAGD |
| TC06001941.hg.1 | -2.2 | JUC06011583.hg.1 | RRAGD |
| TC07001898.hg.1 | 2.97 | JUC07014583.hg.1 | CREB3L2 |
| TC07001898.hg.1 | 2.07 | JUC07014588.hg.1 | CREB3L2 |
| TC07001898.hg.1 | -2.08 | JUC07014579.hg.1 | CREB3L2 |
| TC07001898.hg.1 | -2.16 | PSR07029499.hg.1 | CREB3L2 |
| TC07001898.hg.1 | -2.27 | JUC07014590.hg.1 | CREB3L2 |
| TC07001898.hg.1 | -4.23 | PSR07029504.hg.1 | CREB3L2 |
| TC08001225.hg.1 | 2.97 | PSR08015885.hg.1 | TMEM68 |
| TC08001225.hg.1 | 2.52 | PSR08015894.hg.1 | TMEM68 |
| TC08001225.hg.1 | 2.15 | PSR08015888.hg.1 | TMEM68 |
| TC08001225.hg.1 | 2.1 | PSR08015893.hg.1 | TMEM68 |
| TC08001225.hg.1 | -2.03 | JUC08008195.hg.1 | TMEM68 |
| TC08001225.hg.1 | -2.15 | JUC08008182.hg.1 | TMEM68 |
| TC09000746.hg.1 | 2.97 | JUC09005244.hg.1 | NUP214 |
| TC09000746.hg.1 | 2.26 | JUC09005206.hg.1 | NUP214 |
| TC09000746.hg.1 | 2.22 | JUC09005210.hg.1 | NUP214 |
| TC09000746.hg.1 | 2.17 | PSR09009555.hg.1 | NUP214 |
| TC09000746.hg.1 | 2.1 | JUC09005220.hg.1 | NUP214 |
| TC09000746.hg.1 | 2.04 | JUC09005202.hg.1 | NUP214 |
| TC09000746.hg.1 | -2.25 | JUC09005251.hg.1 | NUP214 |
| TC12000803.hg.1 | 2.97 | PSR12010192.hg.1 | HSP90B1, MI |
| TC12000803.hg.1 | 2.1 | JUC12005577.hg.1 | HSP90B1, MI |
| TC12000803.hg.1 | 2.06 | JUC12005586.hg.1 | HSP90B1, MI |
| TC12000803.hg.1 | -2.9 | JUC12005588.hg.1 | HSP90B1, MI |
| TC14000316.hg.1 | 2.97 | JUC14001605.hg.1 | CDKN3 |
| TC14000316.hg.1 | 2.59 | JUC14001614.hg.1 | CDKN3 |
| TC14000316.hg.1 | -2.12 | PSR14003345.hg.1 | CDKN3 |
| TC14000316.hg.1 | -2.61 | JUC14001619.hg.1 | CDKN3 |
| TC17001610.hg.1 | 2.97 | JUC17012159.hg.1 | KANSL1 |
| TC17001610.hg.1 | -2.04 | JUC17012153.hg.1 | KANSL1 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC17001610.hg.1 | -2.34 | PSR17021638.hg.1 | KANSL1 |
| TC17001610.hg.1 | -3.26 | JUC17012157.hg.1 | KANSL1 |
| TC21000441.hg.1 | 2.97 | JUC21002656.hg.1 | DSCR3 |
| TC21000441.hg.1 | 2.67 | JUC21002653.hg.1 | DSCR3 |
| TC21000441.hg.1 | -2.01 | PSR21005194.hg.1 | DSCR3 |
| TC21000441.hg.1 | -2.9 | PSR21005193.hg.1 | DSCR3 |
| TC02002938.hg.1 | 2.96 | JUC02024610.hg.1 | ANKMY1 |
| TC02002938.hg.1 | 2.49 | JUC02024626.hg.1 | ANKMY1 |
| TC02002938.hg.1 | 2.18 | JUC02024618.hg.1 | ANKMY1 |
| TC02002938.hg.1 | 2.12 | PSR02047064.hg.1 | ANKMY1 |
| TC02002938.hg.1 | 2.09 | JUC02024617.hg.1 | ANKMY1 |
| TC02002938.hg.1 | 2.02 | PSR02047055.hg.1 | ANKMY1 |
| TC02002938.hg.1 | 2 | PSR02047054.hg.1 | ANKMY1 |
| TC02002938.hg.1 | -2.3 | JUC02024609.hg.1 | ANKMY1 |
| TC02002938.hg.1 | -2.88 | JUC02024627.hg.1 | ANKMY1 |
| TC04001319.hg.1 | 2.96 | JUC04009603.hg.1 | CCNI |
| TC04001319.hg.1 | 2.46 | PSR04018055.hg.1 | CCNI |
| TC04001319.hg.1 | 2.18 | PSR04018051.hg.1 | CCNI |
| TC08000135.hg.1 | 2.96 | PSR08001312.hg.1 | PCM1 |
| TC08000135.hg.1 | 2.44 | PSR08001306.hg.1 | PCM1 |
| TC08000135.hg.1 | 2.15 | PSR08001346.hg.1 | PCM1 |
| TC08000135.hg.1 | 2.07 | PSR08001347.hg.1 | PCM1 |
| TC08000135.hg.1 | -3.44 | JUC08000690.hg.1 | PCM1 |
| TC09000668.hg.1 | 2.96 | PSR09007938.hg.1 | STXBP1 |
| TC09000668.hg.1 | 2.82 | JUC09004421.hg.1 | STXBP1 |
| TC09000668.hg.1 | 2.37 | JUC09004401.hg.1 | STXBP1 |
| TC09000668.hg.1 | 2.23 | JUC09004418.hg.1 | STXBP1 |
| TC09000668.hg.1 | 2.06 | PSR09007903.hg.1 | STXBP1 |
| TC16001325.hg.1 | 2.96 | PSR16018308.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | 2.37 | PSR16018317.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | 2.33 | PSR16018312.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | 2.13 | JUC16010440.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | -2.45 | JUC16010442.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | -2.53 | PSR16018316.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | -2.64 | PSR16018309.hg.1 | FOXF1-AS1 |
| TC16001325.hg.1 | -2.72 | JUC16010439.hg.1 | FOXF1-AS1 |
| TC17001201.hg.1 | 2.96 | JUC17009404.hg.1 | SHMT1 |
| TC17001201.hg.1 | 2.69 | JUC17009411.hg.1 | SHMT1 |
| TC17001201.hg.1 | 2.3 | JUC17009412.hg.1 | SHMT1 |
| TC17001201.hg.1 | 2.01 | PSR17016472.hg.1 | SHMT1 |
| TC17001201.hg.1 | -2.89 | PSR17016463.hg.1 | SHMT1 |
| TC19001469.hg.1 | 2.96 | PSR19019969.hg.1 | ZNF566 |
| TC19001469.hg.1 | 2.28 | JUC19011494.hg.1 | ZNF566 |
| TC19001469.hg.1 | 2.23 | PSR19019949.hg.1 | ZNF566 |
| TC19001469.hg.1 | -2.13 | PSR19019954.hg.1 | ZNF566 |
| TC19001469.hg.1 | -2.19 | PSR19019944.hg.1 | ZNF566 |
| TC20001745.hg.1 | 2.96 | PSR20008127.hg.1 | ZNF343 |
| TC20001745.hg.1 | 2.59 | JUC20009954.hg.1 | ZNF343 |
| TC22000138.hg.1 | 2.96 | PSR22002427.hg.1 | MMP11 |
| TC22000138.hg.1 | 2.29 | PSR22002441.hg.1 | MMP11 |
| TC22000138.hg.1 | 2.07 | JUC22000762.hg.1 | MMP11 |
| TC01000559.hg.1 | 2.95 | JUC01004769.hg.1 | DMAP1 |
| TC01000559.hg.1 | -2.13 | PSR01009221.hg.1 | DMAP1 |
| TC01003565.hg.1 | 2.95 | JUC01028847.hg.1 | ANGPTL1 |
| TC01003565.hg.1 | -2.22 | JUC01028843.hg.1 | ANGPTL1 |
| TC01003565.hg.1 | -3.45 | PSR01055243.hg.1 | ANGPTL1 |
| TC01003565.hg.1 | -3.85 | PSR01055242.hg.1 | ANGPTL1 |
| TC01003565.hg.1 | -4.53 | PSR01055240.hg.1 | ANGPTL1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC01003565.hg.1 | -5.86 | JUC01028840.hg.1 | ANGPTL1 |
| TC01003565.hg.1 | -6.14 | PSR01055227.hg.1 | ANGPTL1 |
| TC01003565.hg.1 | -8.2 | PSR01055241.hg.1 | ANGPTL1 |
| TC02005053.hg.1 | 2.95 | JUC02033146.hg.1 | NHEJ1 |
| TC02005053.hg.1 | -2.28 | PSR02044843.hg.1 | NHEJ1 |
| TC07003291.hg.1 | 2.95 | PSR07011127.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2.71 | JUC07020359.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2.7 | PSR07011094.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2.65 | PSR07011114.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2.16 | JUC07020341.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2.13 | PSR07011101.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2.03 | PSR07011095.hg.1 | IFRD1 |
| TC07003291.hg.1 | 2 | PSR07011103.hg.1 | IFRD1 |
| TC07003291.hg.1 | -2.03 | JUC07020363.hg.1 | IFRD1 |
| TC13000534.hg.1 | 2.95 | JUC13003603.hg.1 | HMGB1 |
| TC13000534.hg.1 | 2.82 | PSR13006048.hg.1 | HMGB1 |
| TC13000534.hg.1 | 2.8 | JUC13003611.hg.1 | HMGB1 |
| TC13000534.hg.1 | -2.06 | JUC13003616.hg.1 | HMGB1 |
| TC14001544.hg.1 | 2.95 | JUC14008969.hg.1 | PPP1R13B |
| TC14001544.hg.1 | 2.77 | JUC14008970.hg.1 | PPP1R13B |
| TC14001544.hg.1 | 2.19 | PSR14017340.hg.1 | PPP1R13B |
| TC14001544.hg.1 | 2.17 | PSR14017352.hg.1 | PPP1R13B |
| TC14001544.hg.1 | -2.18 | JUC14008967.hg.1 | PPP1R13B |
| TC14001544.hg.1 | -2.85 | JUC14008979.hg.1 | PPP1R13B |
| TC14001544.hg.1 | -2.88 | JUC14008972.hg.1 | PPP1R13B |
| TC15001011.hg.1 | 2.95 | JUC15004864.hg.1 | HERC2P3 |
| TC15001011.hg.1 | -2.17 | JUC15004865.hg.1 | HERC2P3 |
| TC15001011.hg.1 | -2.18 | PSR15009377.hg.1 | HERC2P3 |
| TC15001011.hg.1 | -2.38 | JUC15004852.hg.1 | HERC2P3 |
| TC15001011.hg.1 | -2.5 | JUC15004873.hg.1 | HERC2P3 |
| TC15001011.hg.1 | -4.02 | PSR15009379.hg.1 | HERC2P3 |
| TC15001544.hg.1 | 2.95 | PSR15014631.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.02 | JUC15007891.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.05 | JUC15007882.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.07 | JUC15007878.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.2 | JUC15007862.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.24 | PSR15014593.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.3 | JUC15007859.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.58 | JUC15007927.hg.1 | HERC1 |
| TC15001544.hg.1 | -2.82 | JUC15007918.hg.1 | HERC1 |
| TC15001544.hg.1 | -3.17 | JUC15007860.hg.1 | HERC1 |
| TC15001544.hg.1 | -4.48 | JUC15007903.hg.1 | HERC1 |
| TC16001052.hg.1 | 2.95 | PSR16015029.hg.1 | PYCARD |
| TC16001052.hg.1 | 2.59 | PSR16015031.hg.1 | PYCARD |
| TC16001052.hg.1 | 2.58 | JUC16008383.hg.1 | PYCARD |
| TC16001052.hg.1 | 2.21 | PSR16015025.hg.1 | PYCARD |
| TC16001052.hg.1 | 2.17 | JUC16008384.hg.1 | PYCARD |
| TC17001682.hg.1 | 2.95 | PSR17022620.hg.1 | COL1A1 |
| TC17001682.hg.1 | 2.81 | PSR17022662.hg.1 | COL1A1 |
| TC17001682.hg.1 | 2.3 | PSR17022602.hg.1 | COL1A1 |
| TC17001682.hg.1 | 2.23 | PSR17022605.hg.1 | COL1A1 |
| TC17001682.hg.1 | 2.16 | PSR17022628.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.02 | PSR17022670.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.04 | PSR17022600.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.05 | PSR17022597.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.06 | PSR17022595.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.1 | PSR17022598.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.11 | PSR17022594.hg.1 | COL1A1 |

| | | | |
|-----------------|-------|-------------------|-----------|
| TC17001682.hg.1 | -2.11 | JUC17012578.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.18 | JUC17012572.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.19 | PSR17022593.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.45 | JUC17012566.hg.1 | COL1A1 |
| TC17001682.hg.1 | -2.57 | PSR17022633.hg.1 | COL1A1 |
| TC19000368.hg.1 | 2.95 | PSR19004919.hg.1 | SLC25A42 |
| TC19000368.hg.1 | 2.88 | JUC19002897.hg.1 | SLC25A42 |
| TC19000368.hg.1 | 2.12 | PSR19004912.hg.1 | SLC25A42 |
| TC19000368.hg.1 | -2.29 | JUC19002894.hg.1 | SLC25A42 |
| TC20000466.hg.1 | 2.95 | JUC20003394.hg.1 | GNAS |
| TC20000466.hg.1 | 2.1 | JUC20003418.hg.1 | GNAS |
| TC20000466.hg.1 | -2.16 | PSR20006354.hg.1 | GNAS |
| TC6_dbb_hap3000 | 2.95 | JUC6_dbb_hap3000 | HLA-F-AS1 |
| TC6_dbb_hap3000 | 2.41 | PSR6_dbb_hap3002 | HLA-F-AS1 |
| TC6_dbb_hap3000 | 2.27 | PSR6_dbb_hap3002 | HLA-F-AS1 |
| TC6_dbb_hap3000 | 2.26 | JUC6_dbb_hap3000 | HLA-F-AS1 |
| TC6_dbb_hap3000 | -2.55 | JUC6_dbb_hap3000 | HLA-F-AS1 |
| TC6_mann_hap400 | 2.95 | JUC6_mann_hap400 | HLA-F-AS1 |
| TC6_mann_hap400 | 2.41 | PSR6_mann_hap400 | HLA-F-AS1 |
| TC6_mann_hap400 | 2.27 | PSR6_mann_hap400 | HLA-F-AS1 |
| TC6_mann_hap400 | 2.26 | JUC6_mann_hap400 | HLA-F-AS1 |
| TC6_mann_hap400 | -2.55 | JUC6_mann_hap400 | HLA-F-AS1 |
| TC6_mann_hap400 | 2.95 | PSR6_mann_hap400 | AGPAT1 |
| TC6_mann_hap400 | 2.74 | JUC6_mann_hap400 | AGPAT1 |
| TC6_mann_hap400 | 2.55 | PSR6_mann_hap400 | AGPAT1 |
| TC6_mann_hap400 | -3.15 | JUC6_mann_hap400 | AGPAT1 |
| TC6_qbl_hap6000 | 2.95 | JUC6_qbl_hap60007 | HLA-F-AS1 |
| TC6_qbl_hap6000 | 2.41 | PSR6_qbl_hap60021 | HLA-F-AS1 |
| TC6_qbl_hap6000 | 2.27 | PSR6_qbl_hap60021 | HLA-F-AS1 |
| TC6_qbl_hap6000 | 2.26 | JUC6_qbl_hap60007 | HLA-F-AS1 |
| TC6_qbl_hap6000 | -2.55 | JUC6_qbl_hap60007 | HLA-F-AS1 |
| TC01001490.hg.1 | 2.94 | JUC01012205.hg.1 | FMO4 |
| TC01001490.hg.1 | -2.09 | JUC01012206.hg.1 | FMO4 |
| TC01001490.hg.1 | -2.69 | JUC01012208.hg.1 | FMO4 |
| TC01001490.hg.1 | -2.92 | PSR01023140.hg.1 | FMO4 |
| TC02000263.hg.1 | 2.94 | PSR02003952.hg.1 | MTA3 |
| TC02000263.hg.1 | 2.67 | JUC02002028.hg.1 | MTA3 |
| TC02000263.hg.1 | 2.58 | JUC02002039.hg.1 | MTA3 |
| TC02000263.hg.1 | 2.46 | PSR02003944.hg.1 | MTA3 |
| TC02000263.hg.1 | 2.05 | JUC02002018.hg.1 | MTA3 |
| TC02000263.hg.1 | 2.04 | PSR02003946.hg.1 | MTA3 |
| TC06001687.hg.1 | 2.94 | JUC06009569.hg.1 | MDGA1 |
| TC06001687.hg.1 | 2.31 | PSR06020091.hg.1 | MDGA1 |
| TC06001687.hg.1 | 2.22 | JUC06009573.hg.1 | MDGA1 |
| TC06001687.hg.1 | 2.12 | PSR06020135.hg.1 | MDGA1 |
| TC06001687.hg.1 | 2.09 | PSR06020118.hg.1 | MDGA1 |
| TC07001208.hg.1 | 2.94 | JUC07009270.hg.1 | C7orf31 |
| TC07001208.hg.1 | 2.34 | PSR07018929.hg.1 | C7orf31 |
| TC07001208.hg.1 | 2.02 | PSR07018931.hg.1 | C7orf31 |
| TC08000178.hg.1 | 2.94 | PSR08002317.hg.1 | RHOBTB2 |
| TC08000178.hg.1 | 2.94 | JUC08001188.hg.1 | RHOBTB2 |
| TC08000178.hg.1 | -2.07 | JUC08001183.hg.1 | RHOBTB2 |
| TC12001723.hg.1 | 2.94 | JUC12012639.hg.1 | TSPAN8 |
| TC12001723.hg.1 | 2.52 | PSR12022908.hg.1 | TSPAN8 |
| TC12001723.hg.1 | 2.47 | PSR12022906.hg.1 | TSPAN8 |
| TC12001723.hg.1 | 2.38 | PSR12022918.hg.1 | TSPAN8 |
| TC12001723.hg.1 | 2.18 | PSR12022913.hg.1 | TSPAN8 |
| TC12001723.hg.1 | 2.14 | PSR12022907.hg.1 | TSPAN8 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC16000226.hg.1 | 2.94 | JUC16001830.hg.1 | LYRM1 |
| TC16000226.hg.1 | 2.82 | PSR16003355.hg.1 | LYRM1 |
| TC16000226.hg.1 | 2.66 | JUC16001824.hg.1 | LYRM1 |
| TC16000226.hg.1 | 2.2 | PSR16003354.hg.1 | LYRM1 |
| TC16000226.hg.1 | 2.2 | JUC16001831.hg.1 | LYRM1 |
| TC16000226.hg.1 | 2.09 | PSR16003356.hg.1 | LYRM1 |
| TC19000630.hg.1 | 2.94 | JUC19005221.hg.1 | BCAM |
| TC19000630.hg.1 | 2.73 | PSR19008741.hg.1 | BCAM |
| TC19000630.hg.1 | 2.48 | PSR19008740.hg.1 | BCAM |
| TC19000630.hg.1 | 2.44 | JUC19005218.hg.1 | BCAM |
| TC19000630.hg.1 | 2.02 | JUC19005215.hg.1 | BCAM |
| TC19000630.hg.1 | -2.29 | PSR19008742.hg.1 | BCAM |
| TC19000630.hg.1 | -3.63 | JUC19005216.hg.1 | BCAM |
| TC19000630.hg.1 | -6.05 | JUC19005220.hg.1 | BCAM |
| TC20000942.hg.1 | 2.94 | PSR20013004.hg.1 | NFATC2 |
| TC20000942.hg.1 | 2 | JUC20006743.hg.1 | NFATC2 |
| TC20000942.hg.1 | -2.13 | JUC20006745.hg.1 | NFATC2 |
| TC20000942.hg.1 | -2.23 | PSR20013006.hg.1 | NFATC2 |
| TC20000942.hg.1 | -2.28 | PSR20013008.hg.1 | NFATC2 |
| TC20000942.hg.1 | -2.45 | JUC20006739.hg.1 | NFATC2 |
| TC20000942.hg.1 | -2.51 | JUC20006740.hg.1 | NFATC2 |
| TC20000942.hg.1 | -3.05 | PSR20013007.hg.1 | NFATC2 |
| TC20000942.hg.1 | -3.15 | JUC20006741.hg.1 | NFATC2 |
| TC20000942.hg.1 | -5.69 | PSR20013010.hg.1 | NFATC2 |
| TC17000402.hg.1 | 2.94 | JUC17002896.hg.1 | TAF15 |
| TC17000402.hg.1 | 2.17 | JUC17002910.hg.1 | TAF15 |
| TC17000402.hg.1 | 2 | PSR17005047.hg.1 | TAF15 |
| TC01001724.hg.1 | 2.93 | JUC01014409.hg.1 | RASSF5 |
| TC01001724.hg.1 | -2.44 | PSR01026908.hg.1 | RASSF5 |
| TC01003759.hg.1 | 2.93 | JUC01030123.hg.1 | C1orf186, LO |
| TC01003759.hg.1 | 2.56 | JUC01030138.hg.1 | C1orf186, LO |
| TC01003759.hg.1 | 2.42 | JUC01030126.hg.1 | C1orf186, LO |
| TC01003759.hg.1 | 2.38 | PSR01057672.hg.1 | C1orf186, LO |
| TC01003759.hg.1 | 2.31 | PSR01057663.hg.1 | C1orf186, LO |
| TC01003759.hg.1 | 2.15 | PSR01057679.hg.1 | C1orf186, LO |
| TC01003759.hg.1 | 2.07 | PSR01057664.hg.1 | C1orf186, LO |
| TC02001475.hg.1 | 2.93 | JUC02012410.hg.1 | PPP1R7 |
| TC02001475.hg.1 | 2.07 | PSR02023828.hg.1 | PPP1R7 |
| TC02001475.hg.1 | -2.13 | PSR02023819.hg.1 | PPP1R7 |
| TC02002669.hg.1 | 2.93 | JUC02022435.hg.1 | ORC2 |
| TC02002669.hg.1 | 2.14 | PSR02042901.hg.1 | ORC2 |
| TC02002669.hg.1 | 2.13 | JUC02022429.hg.1 | ORC2 |
| TC02002669.hg.1 | 2.02 | PSR02042907.hg.1 | ORC2 |
| TC02002669.hg.1 | -2.57 | JUC02022439.hg.1 | ORC2 |
| TC02002669.hg.1 | -2.73 | JUC02022424.hg.1 | ORC2 |
| TC02002669.hg.1 | -2.74 | JUC02022428.hg.1 | ORC2 |
| TC02004917.hg.1 | 2.93 | PSR02001856.hg.1 | CENPA |
| TC02004917.hg.1 | 2.32 | JUC02031168.hg.1 | CENPA |
| TC02004917.hg.1 | -2.35 | PSR02001862.hg.1 | CENPA |
| TC03001496.hg.1 | 2.93 | JUC03013329.hg.1 | FAM116A |
| TC03001496.hg.1 | -2.11 | PSR03027269.hg.1 | FAM116A |
| TC03001575.hg.1 | 2.93 | PSR03028581.hg.1 | GBE1 |
| TC03001575.hg.1 | 2.85 | PSR03028585.hg.1 | GBE1 |
| TC03001575.hg.1 | 2.34 | PSR03028583.hg.1 | GBE1 |
| TC03001575.hg.1 | -2.31 | PSR03028545.hg.1 | GBE1 |
| TC03001575.hg.1 | -2.76 | JUC03014094.hg.1 | GBE1 |
| TC05001271.hg.1 | 2.93 | PSR05017813.hg.1 | RANBP3L |
| TC05001271.hg.1 | 2.04 | JUC05009125.hg.1 | RANBP3L |

| | | | |
|-----------------|---------|------------------|------------|
| TC05001271.hg.1 | -2.2 | JUC05009128.hg.1 | RANBP3L |
| TC05001271.hg.1 | -2.64 | PSR05017805.hg.1 | RANBP3L |
| TC05001271.hg.1 | -2.67 | PSR05017800.hg.1 | RANBP3L |
| TC05001271.hg.1 | -3.38 | JUC05009127.hg.1 | RANBP3L |
| TC05001271.hg.1 | -3.68 | PSR05017802.hg.1 | RANBP3L |
| TC05001271.hg.1 | -3.95 | JUC05009121.hg.1 | RANBP3L |
| TC05001271.hg.1 | -4.64 | JUC05009122.hg.1 | RANBP3L |
| TC05001271.hg.1 | -13.12 | PSR05017806.hg.1 | RANBP3L |
| TC05001271.hg.1 | -138.65 | JUC05009135.hg.1 | RANBP3L |
| TC07001972.hg.1 | 2.93 | PSR07030414.hg.1 | LOC154761, |
| TC07001972.hg.1 | 2.92 | JUC07015067.hg.1 | LOC154761, |
| TC07001972.hg.1 | 2.62 | PSR07030411.hg.1 | LOC154761, |
| TC07001972.hg.1 | 2.29 | PSR07030420.hg.1 | LOC154761, |
| TC07001972.hg.1 | 2.14 | PSR07030406.hg.1 | LOC154761, |
| TC07001972.hg.1 | -2.01 | JUC07015075.hg.1 | LOC154761, |
| TC07001972.hg.1 | -2.06 | JUC07015072.hg.1 | LOC154761, |
| TC07001972.hg.1 | -2.26 | JUC07015073.hg.1 | LOC154761, |
| TC07001972.hg.1 | -3.07 | PSR07030404.hg.1 | LOC154761, |
| TC07001972.hg.1 | -4.21 | JUC07015061.hg.1 | LOC154761, |
| TC09001054.hg.1 | 2.93 | PSR09013968.hg.1 | CD72 |
| TC09001054.hg.1 | 2.67 | PSR09013969.hg.1 | CD72 |
| TC09001054.hg.1 | 2.45 | JUC09007529.hg.1 | CD72 |
| TC09001054.hg.1 | 2.26 | JUC09007543.hg.1 | CD72 |
| TC09001054.hg.1 | 2.25 | PSR09013972.hg.1 | CD72 |
| TC09001054.hg.1 | 2.22 | PSR09013958.hg.1 | CD72 |
| TC09001054.hg.1 | 2.09 | PSR09013974.hg.1 | CD72 |
| TC09001054.hg.1 | -4.04 | JUC09007537.hg.1 | CD72 |
| TC09001490.hg.1 | 2.93 | JUC09010058.hg.1 | SUSD1 |
| TC09001490.hg.1 | 2.18 | JUC09010059.hg.1 | SUSD1 |
| TC09001490.hg.1 | -2.04 | PSR09018521.hg.1 | SUSD1 |
| TC09001490.hg.1 | -2.32 | PSR09018520.hg.1 | SUSD1 |
| TC09001490.hg.1 | -2.34 | PSR09018513.hg.1 | SUSD1 |
| TC09001490.hg.1 | -2.54 | JUC09010066.hg.1 | SUSD1 |
| TC09001490.hg.1 | -2.8 | PSR09018515.hg.1 | SUSD1 |
| TC09001490.hg.1 | -3.69 | JUC09010070.hg.1 | SUSD1 |
| TC10000219.hg.1 | 2.93 | PSR10002515.hg.1 | ZEB1 |
| TC10000219.hg.1 | 2.71 | PSR10002523.hg.1 | ZEB1 |
| TC10000219.hg.1 | -2.07 | JUC10001356.hg.1 | ZEB1 |
| TC10000219.hg.1 | -2.93 | JUC10001367.hg.1 | ZEB1 |
| TC10000733.hg.1 | 2.93 | JUC10004817.hg.1 | TLX1 |
| TC10000733.hg.1 | -2.02 | PSR10008664.hg.1 | TLX1 |
| TC10001446.hg.1 | 2.93 | JUC10010695.hg.1 | POLR3A |
| TC10001446.hg.1 | 2.54 | JUC10010688.hg.1 | POLR3A |
| TC10001446.hg.1 | 2.39 | JUC10010722.hg.1 | POLR3A |
| TC10001446.hg.1 | 2.07 | JUC10010707.hg.1 | POLR3A |
| TC10001446.hg.1 | -2.05 | PSR10018356.hg.1 | POLR3A |
| TC10001446.hg.1 | -2.06 | JUC10010708.hg.1 | POLR3A |
| TC10001446.hg.1 | -2.12 | JUC10010694.hg.1 | POLR3A |
| TC10001446.hg.1 | -2.28 | JUC10010699.hg.1 | POLR3A |
| TC10002969.hg.1 | 2.93 | JUC10017585.hg.1 | FAM53B |
| TC10002969.hg.1 | 2.12 | JUC10017579.hg.1 | FAM53B |
| TC10002969.hg.1 | -2.03 | PSR10022950.hg.1 | FAM53B |
| TC15001575.hg.1 | 2.93 | JUC15008225.hg.1 | MEGF11 |
| TC15001575.hg.1 | 2.42 | JUC15008234.hg.1 | MEGF11 |
| TC15001575.hg.1 | -2.29 | PSR15015153.hg.1 | MEGF11 |
| TC15001575.hg.1 | -2.79 | JUC15008237.hg.1 | MEGF11 |
| TC01000586.hg.1 | 2.92 | PSR01010021.hg.1 | LOC729041 |
| TC01000586.hg.1 | 2.36 | JUC01005144.hg.1 | LOC729041 |

| | | | |
|-----------------|-------|-------------------|-----------|
| TC01000586.hg.1 | -4.52 | JUC01005139.hg.1 | LOC729041 |
| TC02000430.hg.1 | 2.92 | JUC02003337.hg.1 | ZNF638 |
| TC02000430.hg.1 | 2.49 | JUC02003334.hg.1 | ZNF638 |
| TC02000430.hg.1 | 2.42 | JUC02003333.hg.1 | ZNF638 |
| TC02000430.hg.1 | 2.36 | JUC02003317.hg.1 | ZNF638 |
| TC02000430.hg.1 | -2 | PSR02006515.hg.1 | ZNF638 |
| TC02000430.hg.1 | -2.01 | JUC02003311.hg.1 | ZNF638 |
| TC02000430.hg.1 | -2.13 | JUC02003341.hg.1 | ZNF638 |
| TC02000430.hg.1 | -2.2 | JUC02003346.hg.1 | ZNF638 |
| TC02000430.hg.1 | -3.37 | PSR02006477.hg.1 | ZNF638 |
| TC02002127.hg.1 | 2.92 | PSR02034602.hg.1 | MGAT4A |
| TC02002127.hg.1 | 2.61 | JUC02017846.hg.1 | MGAT4A |
| TC02002127.hg.1 | 2.5 | PSR02034567.hg.1 | MGAT4A |
| TC02002127.hg.1 | 2.19 | PSR02034592.hg.1 | MGAT4A |
| TC02002127.hg.1 | 2.13 | JUC02017854.hg.1 | MGAT4A |
| TC02002127.hg.1 | 2.04 | PSR02034603.hg.1 | MGAT4A |
| TC04000011.hg.1 | 2.92 | JUC04000073.hg.1 | PDE6B |
| TC04000011.hg.1 | -2.76 | PSR04000197.hg.1 | PDE6B |
| TC05000938.hg.1 | 2.92 | PSR05013724.hg.1 | RANBP17 |
| TC05000938.hg.1 | 2.9 | JUC05007089.hg.1 | RANBP17 |
| TC05000938.hg.1 | 2.43 | JUC05007091.hg.1 | RANBP17 |
| TC05000938.hg.1 | 2.08 | PSR05013718.hg.1 | RANBP17 |
| TC05000938.hg.1 | -2.05 | JUC05007111.hg.1 | RANBP17 |
| TC05000938.hg.1 | -2.11 | PSR05013695.hg.1 | RANBP17 |
| TC05000938.hg.1 | -2.19 | PSR05013727.hg.1 | RANBP17 |
| TC05000938.hg.1 | -2.32 | PSR05013671.hg.1 | RANBP17 |
| TC05000938.hg.1 | -2.41 | JUC05007134.hg.1 | RANBP17 |
| TC05000938.hg.1 | -2.93 | JUC05007087.hg.1 | RANBP17 |
| TC07000552.hg.1 | 2.92 | PSR07008062.hg.1 | CCDC132 |
| TC07000552.hg.1 | 2.29 | JUC07003855.hg.1 | CCDC132 |
| TC07000552.hg.1 | 2.05 | PSR07008123.hg.1 | CCDC132 |
| TC07000552.hg.1 | 2.02 | JUC07003850.hg.1 | CCDC132 |
| TC07000552.hg.1 | -2.13 | JUC07003840.hg.1 | CCDC132 |
| TC07002029.hg.1 | 2.92 | PSR07030994.hg.1 | FASTK |
| TC07002029.hg.1 | -2.11 | JUC07015380.hg.1 | FASTK |
| TC11001247.hg.1 | 2.92 | JUC11008509.hg.1 | SLC25A22 |
| TC11001247.hg.1 | 2.32 | PSR11015767.hg.1 | SLC25A22 |
| TC11001247.hg.1 | 2 | JUC11008516.hg.1 | SLC25A22 |
| TC13000867.hg.1 | 2.92 | JUC13005687.hg.1 | LIG4 |
| TC13000867.hg.1 | 2.68 | JUC13005691.hg.1 | LIG4 |
| TC13000867.hg.1 | -2.05 | PSR13009687.hg.1 | LIG4 |
| TC6_qbl_hap6000 | 2.92 | JUC6_qbl_hap60010 | HLA-B |
| TC6_qbl_hap6000 | 2.61 | PSR6_qbl_hap60027 | HLA-B |
| TC6_qbl_hap6000 | 2.25 | PSR6_qbl_hap60027 | HLA-B |
| TC6_qbl_hap6000 | 2.25 | JUC6_qbl_hap60010 | HLA-B |
| TC6_qbl_hap6000 | 2.09 | PSR6_qbl_hap60027 | HLA-B |
| TC6_qbl_hap6000 | -2.34 | PSR6_qbl_hap60027 | HLA-B |
| TC02000348.hg.1 | 2.91 | JUC02002738.hg.1 | REL |
| TC02000348.hg.1 | 2.61 | PSR02005179.hg.1 | REL |
| TC02000348.hg.1 | 2.17 | JUC02002728.hg.1 | REL |
| TC02001377.hg.1 | 2.91 | JUC02011460.hg.1 | SP100 |
| TC02001377.hg.1 | 2.37 | PSR02021601.hg.1 | SP100 |
| TC02001377.hg.1 | 2.32 | PSR02021559.hg.1 | SP100 |
| TC02001377.hg.1 | 2.12 | PSR02021620.hg.1 | SP100 |
| TC02001377.hg.1 | 2.01 | PSR02021615.hg.1 | SP100 |
| TC02001421.hg.1 | 2.91 | JUC02011969.hg.1 | HEATR7B1 |
| TC02001421.hg.1 | 2.47 | JUC02011997.hg.1 | HEATR7B1 |
| TC02001421.hg.1 | 2.19 | PSR02022756.hg.1 | HEATR7B1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC03000212.hg.1 | 2.91 | PSR03004248.hg.1 | ZNF621 |
| TC03000212.hg.1 | 2.37 | JUC03002248.hg.1 | ZNF621 |
| TC03000212.hg.1 | -2.24 | PSR03004239.hg.1 | ZNF621 |
| TC03000263.hg.1 | 2.91 | JUC03002697.hg.1 | NBEAL2 |
| TC03000263.hg.1 | 2.36 | PSR03005338.hg.1 | NBEAL2 |
| TC03000263.hg.1 | 2.34 | JUC03002679.hg.1 | NBEAL2 |
| TC03000263.hg.1 | 2.2 | PSR03005392.hg.1 | NBEAL2 |
| TC03000263.hg.1 | -2.41 | JUC03002702.hg.1 | NBEAL2 |
| TC04001718.hg.1 | 2.91 | JUC04012546.hg.1 | DDX60 |
| TC04001718.hg.1 | 2.32 | JUC04012519.hg.1 | DDX60 |
| TC04001718.hg.1 | 2.13 | JUC04012537.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.02 | PSR04023712.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.02 | JUC04012526.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.02 | JUC04012533.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.09 | PSR04023671.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.21 | PSR04023705.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.22 | JUC04012524.hg.1 | DDX60 |
| TC04001718.hg.1 | -2.46 | JUC04012538.hg.1 | DDX60 |
| TC04001718.hg.1 | -3.22 | JUC04012532.hg.1 | DDX60 |
| TC05000039.hg.1 | 2.91 | JUC05000255.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | 2.31 | PSR05000461.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | 2.2 | JUC05000233.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | 2.19 | JUC05000246.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | 2.08 | JUC05000250.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | -2 | PSR05000465.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | -2.16 | PSR05000471.hg.1 | ADAMTS16 |
| TC05000039.hg.1 | -2.34 | JUC05000236.hg.1 | ADAMTS16 |
| TC05000866.hg.1 | 2.91 | JUC05006547.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.88 | PSR05012690.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.61 | PSR05012679.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.52 | JUC05006570.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.46 | JUC05006545.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.43 | JUC05006568.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.34 | PSR05012688.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.26 | PSR05012650.hg.1 | CYFIP2 |
| TC05000866.hg.1 | 2.11 | PSR05012656.hg.1 | CYFIP2 |
| TC05000866.hg.1 | -2.24 | PSR05012664.hg.1 | CYFIP2 |
| TC05000866.hg.1 | -2.26 | JUC05006555.hg.1 | CYFIP2 |
| TC05000866.hg.1 | -2.39 | JUC05006535.hg.1 | CYFIP2 |
| TC05000866.hg.1 | -2.7 | PSR05012668.hg.1 | CYFIP2 |
| TC05000866.hg.1 | -4 | PSR05012662.hg.1 | CYFIP2 |
| TC06000819.hg.1 | 2.91 | JUC06004542.hg.1 | UFL1 |
| TC06000819.hg.1 | 2.15 | PSR06009739.hg.1 | UFL1 |
| TC06000851.hg.1 | 2.91 | JUC06004704.hg.1 | QRSL1 |
| TC06000851.hg.1 | 2.74 | JUC06004695.hg.1 | QRSL1 |
| TC06000851.hg.1 | -2.63 | PSR06010032.hg.1 | QRSL1 |
| TC10000403.hg.1 | 2.91 | PSR10004481.hg.1 | HNRNPH3 |
| TC10000403.hg.1 | 2.6 | PSR10004502.hg.1 | HNRNPH3 |
| TC10000403.hg.1 | -2.77 | JUC10002597.hg.1 | HNRNPH3 |
| TC14000202.hg.1 | 2.91 | PSR14002217.hg.1 | NUBPL |
| TC14000202.hg.1 | 2.51 | JUC14000995.hg.1 | NUBPL |
| TC14000202.hg.1 | 2.18 | PSR14002220.hg.1 | NUBPL |
| TC16001291.hg.1 | 2.91 | JUC16010221.hg.1 | MAF |
| TC16001291.hg.1 | 2.01 | JUC16010220.hg.1 | MAF |
| TC16001291.hg.1 | -2.48 | PSR16017944.hg.1 | MAF |
| TC6_mann_hap400 | 2.91 | JUC6_mann_hap400 | HCG18 |
| TC6_mann_hap400 | 2.03 | PSR6_mann_hap400 | HCG18 |
| TC02001323.hg.1 | 2.9 | JUC02010976.hg.1 | DNAJB2 |

| | | | |
|------------------|-------|-------------------------------|----------|
| TC02001323.hg.1 | 2.02 | JUC02010982.hg.1 | DNAJB2 |
| TC02001323.hg.1 | 2 | PSR02020607.hg.1 | DNAJB2 |
| TC02001323.hg.1 | -2.01 | JUC02010979.hg.1 | DNAJB2 |
| TC02001323.hg.1 | -2.1 | PSR02020601.hg.1 | DNAJB2 |
| TC03000315.hg.1 | 2.9 | JUC03003230.hg.1 | HEMK1 |
| TC03000315.hg.1 | 2.17 | JUC03003235.hg.1 | HEMK1 |
| TC03000315.hg.1 | 2.11 | JUC03003232.hg.1 | HEMK1 |
| TC03000315.hg.1 | 2.01 | PSR03006647.hg.1 | HEMK1 |
| TC03000315.hg.1 | -2.8 | PSR03006652.hg.1 | HEMK1 |
| TC03000315.hg.1 | -3.22 | JUC03003227.hg.1 | HEMK1 |
| TC03000353.hg.1 | 2.9 | JUC03003822.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.89 | JUC03003832.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.56 | PSR03007782.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.46 | JUC03003817.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.44 | PSR03007773.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.35 | JUC03003839.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.27 | PSR03007814.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.21 | JUC03003854.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.2 | PSR03007779.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.16 | JUC03003811.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.14 | PSR03007819.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.11 | PSR03007775.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.11 | PSR03007808.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | 2.05 | PSR03007777.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | -2.3 | JUC03003834.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | -2.35 | JUC03003828.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | -2.68 | JUC03003842.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | -3.04 | JUC03003826.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | -3.04 | JUC03003836.hg.1 | CACNA2D3 |
| TC03000353.hg.1 | -5.3 | JUC03003830.hg.1 | CACNA2D3 |
| TC03001241.hg.1 | 2.9 | PSR03021275.hg.1 | THRБ |
| TC03001241.hg.1 | 2.49 | JUC03010537.hg.1 | THRБ |
| TC03001241.hg.1 | 2.09 | PSR03021256.hg.1 | THRБ |
| TC03001241.hg.1 | 2.09 | PSR03021290.hg.1 | THRБ |
| TC03001241.hg.1 | 2.08 | PSR03021277.hg.1 | THRБ |
| TC03001241.hg.1 | 2.07 | JUC03010551.hg.1 | THRБ |
| TC03001241.hg.1 | 2.06 | JUC03010553.hg.1 | THRБ |
| TC03001241.hg.1 | 2.04 | PSR03021288.hg.1 | THRБ |
| TC03001241.hg.1 | 2.02 | PSR03021262.hg.1 | THRБ |
| TC05003440.hg.1 | 2.9 | JUC05019828.hg.1 | RFESD |
| TC05003440.hg.1 | -2.02 | PSR05006497.hg.1 | RFESD |
| TC1_gl000192_ran | 2.9 | JUC1_gl000192_random000038.hg | |
| TC1_gl000192_ran | 2.58 | JUC1_gl000192_random000031.hg | |
| TC1_gl000192_ran | 2.05 | JUC1_gl000192_random000039.hg | |
| TC1_gl000192_ran | -3.27 | PSR1_gl000192_random000028.hg | |
| TC1_gl000192_ran | -3.81 | JUC1_gl000192_random000032.hg | |
| TC14001189.hg.1 | 2.9 | PSR14013655.hg.1 | SIX4 |
| TC14001189.hg.1 | 2.66 | JUC14006884.hg.1 | SIX4 |
| TC14001189.hg.1 | 2.41 | PSR14013647.hg.1 | SIX4 |
| TC14001189.hg.1 | 2.13 | PSR14013646.hg.1 | SIX4 |
| TC16000189.hg.1 | 2.9 | JUC16001449.hg.1 | MPV17L |
| TC16000189.hg.1 | -2.09 | PSR16002823.hg.1 | MPV17L |
| TC20001751.hg.1 | 2.9 | JUC20010009.hg.1 | UBE2V1 |
| TC20001751.hg.1 | 2.14 | PSR20012862.hg.1 | UBE2V1 |
| TC20001751.hg.1 | -2.06 | PSR20012825.hg.1 | UBE2V1 |
| TC20001751.hg.1 | -2.22 | PSR20012826.hg.1 | UBE2V1 |
| TC20001751.hg.1 | -2.81 | JUC20010025.hg.1 | UBE2V1 |
| TC02001087.hg.1 | 2.9 | JUC02008661.hg.1 | PPP1R1C |

| | | | |
|-----------------|--------|------------------|------------|
| TC02001087.hg.1 | 2 | PSR02016268.hg.1 | PPP1R1C |
| TC01000439.hg.1 | 2.89 | JUC01003525.hg.1 | ADC |
| TC01000439.hg.1 | 2.07 | PSR01006797.hg.1 | ADC |
| TC01000439.hg.1 | -2.08 | PSR01006806.hg.1 | ADC |
| TC02002792.hg.1 | 2.89 | JUC02023525.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.3 | PSR02045059.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.3 | JUC02023538.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.26 | PSR02045078.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.17 | PSR02045040.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.12 | JUC02023545.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.11 | PSR02045074.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.06 | JUC02023535.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.02 | PSR02045083.hg.1 | GLB1L |
| TC02002792.hg.1 | 2.01 | PSR02045066.hg.1 | GLB1L |
| TC02002792.hg.1 | -2.03 | JUC02023528.hg.1 | GLB1L |
| TC02002859.hg.1 | 2.89 | JUC02024157.hg.1 | NCL |
| TC02002859.hg.1 | 2.24 | PSR02046162.hg.1 | NCL |
| TC02002859.hg.1 | 2.23 | JUC02024171.hg.1 | NCL |
| TC04000155.hg.1 | 2.89 | PSR04002416.hg.1 | NCAPG |
| TC04000155.hg.1 | 2.87 | JUC04001095.hg.1 | NCAPG |
| TC04000155.hg.1 | -2.04 | JUC04001086.hg.1 | NCAPG |
| TC04000155.hg.1 | -2.14 | JUC04001101.hg.1 | NCAPG |
| TC04000155.hg.1 | -2.28 | PSR04002429.hg.1 | NCAPG |
| TC06004150.hg.1 | 2.89 | JUC06021967.hg.1 | FKBP5 |
| TC06004150.hg.1 | 2.45 | PSR06019753.hg.1 | FKBP5 |
| TC06004150.hg.1 | 2.19 | PSR06019755.hg.1 | FKBP5 |
| TC06004150.hg.1 | 2.14 | JUC06021963.hg.1 | FKBP5 |
| TC06004150.hg.1 | -2.14 | PSR06019763.hg.1 | FKBP5 |
| TC06004150.hg.1 | -3.94 | PSR06019751.hg.1 | FKBP5 |
| TC06004150.hg.1 | -6.86 | JUC06021970.hg.1 | FKBP5 |
| TC06004150.hg.1 | -9.93 | JUC06021966.hg.1 | FKBP5 |
| TC06004150.hg.1 | -11.03 | PSR06019768.hg.1 | FKBP5 |
| TC06004150.hg.1 | -13.4 | JUC06021962.hg.1 | FKBP5 |
| TC06004150.hg.1 | -15.12 | JUC06021957.hg.1 | FKBP5 |
| TC06004150.hg.1 | -22.11 | PSR06019745.hg.1 | FKBP5 |
| TC06004150.hg.1 | -27.78 | PSR06019770.hg.1 | FKBP5 |
| TC06004150.hg.1 | -32.14 | PSR06019772.hg.1 | FKBP5 |
| TC06004150.hg.1 | -36.8 | PSR06019777.hg.1 | FKBP5 |
| TC06004150.hg.1 | -37.59 | PSR06019775.hg.1 | FKBP5 |
| TC06004150.hg.1 | -40.29 | JUC06021958.hg.1 | FKBP5 |
| TC07003326.hg.1 | 2.89 | PSR07004985.hg.1 | GBAS |
| TC07003326.hg.1 | -2.57 | JUC07020896.hg.1 | GBAS |
| TC10000199.hg.1 | 2.89 | PSR10002381.hg.1 | BAMBI |
| TC10000199.hg.1 | 2.05 | JUC10001295.hg.1 | BAMBI |
| TC10000424.hg.1 | 2.89 | JUC10002884.hg.1 | COL13A1 |
| TC10000424.hg.1 | 2.27 | JUC10002852.hg.1 | COL13A1 |
| TC10000424.hg.1 | 2.16 | PSR10004935.hg.1 | COL13A1 |
| TC10000424.hg.1 | -2.44 | JUC10002849.hg.1 | COL13A1 |
| TC10000424.hg.1 | -4.71 | JUC10002896.hg.1 | COL13A1 |
| TC10001410.hg.1 | 2.89 | JUC10010371.hg.1 | PPP3CB |
| TC10001410.hg.1 | -2.56 | PSR10017808.hg.1 | PPP3CB |
| TC10001410.hg.1 | -2.64 | JUC10010365.hg.1 | PPP3CB |
| TC10001410.hg.1 | -2.68 | PSR10017805.hg.1 | PPP3CB |
| TC10001410.hg.1 | -3.51 | PSR10017802.hg.1 | PPP3CB |
| TC10001410.hg.1 | -4.02 | JUC10010383.hg.1 | PPP3CB |
| TC12000183.hg.1 | 2.89 | JUC12001069.hg.1 | LOC1005063 |
| TC12000183.hg.1 | 2.23 | JUC12001077.hg.1 | LOC1005063 |
| TC12000183.hg.1 | 2.19 | JUC12001071.hg.1 | LOC1005063 |

| | | | |
|-----------------|-------|------------------|------------|
| TC12000183.hg.1 | -2.1 | PSR12002317.hg.1 | LOC1005063 |
| TC12000418.hg.1 | 2.89 | JUC12002948.hg.1 | KRT7 |
| TC12000418.hg.1 | 2.46 | PSR12005361.hg.1 | KRT7 |
| TC12000418.hg.1 | 2.23 | PSR12005339.hg.1 | KRT7 |
| TC12000418.hg.1 | 2.09 | PSR12005352.hg.1 | KRT7 |
| TC12000418.hg.1 | -2.41 | JUC12002957.hg.1 | KRT7 |
| TC12000418.hg.1 | -2.42 | JUC12002951.hg.1 | KRT7 |
| TC17000460.hg.1 | 2.89 | JUC17003067.hg.1 | SOCS7 |
| TC17000460.hg.1 | 2.63 | PSR17005398.hg.1 | SOCS7 |
| TC17000460.hg.1 | 2.3 | PSR17005386.hg.1 | SOCS7 |
| TC17000460.hg.1 | 2.06 | PSR17005399.hg.1 | SOCS7 |
| TC19002668.hg.1 | 2.89 | JUC19017698.hg.1 | ZNF776 |
| TC19002668.hg.1 | 2.74 | JUC19017699.hg.1 | ZNF776 |
| TC19002668.hg.1 | 2.17 | PSR19013047.hg.1 | ZNF776 |
| TC19002668.hg.1 | 2.16 | JUC19017700.hg.1 | ZNF776 |
| TC19002668.hg.1 | 2.11 | PSR19013051.hg.1 | ZNF776 |
| TC19002668.hg.1 | 2.09 | PSR19013046.hg.1 | ZNF776 |
| TC19002668.hg.1 | 2.03 | PSR19013050.hg.1 | ZNF776 |
| TC01003677.hg.1 | 2.88 | PSR01056295.hg.1 | C1orf98 |
| TC01003677.hg.1 | 2.18 | PSR01056297.hg.1 | C1orf98 |
| TC01003677.hg.1 | 2.13 | JUC01029416.hg.1 | C1orf98 |
| TC01003677.hg.1 | -2.4 | PSR01056296.hg.1 | C1orf98 |
| TC01004096.hg.1 | 2.88 | JUC01032180.hg.1 | ZNF692 |
| TC01004096.hg.1 | -2.18 | PSR01061583.hg.1 | ZNF692 |
| TC05000689.hg.1 | 2.88 | PSR05009590.hg.1 | MYOT |
| TC05000689.hg.1 | 2.82 | JUC05005093.hg.1 | MYOT |
| TC05000689.hg.1 | 2.03 | PSR05009589.hg.1 | MYOT |
| TC05000689.hg.1 | -2.36 | PSR05009575.hg.1 | MYOT |
| TC05000689.hg.1 | -2.37 | PSR05009572.hg.1 | MYOT |
| TC05000689.hg.1 | -2.44 | PSR05009588.hg.1 | MYOT |
| TC05000689.hg.1 | -2.57 | PSR05009574.hg.1 | MYOT |
| TC05000689.hg.1 | -2.63 | PSR05009576.hg.1 | MYOT |
| TC05000689.hg.1 | -5.52 | PSR05009578.hg.1 | MYOT |
| TC05001872.hg.1 | 2.88 | PSR05025779.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.83 | PSR05025830.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.32 | JUC05013168.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.26 | PSR05025799.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.17 | JUC05013141.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.14 | JUC05013155.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.13 | PSR05025781.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.13 | PSR05025800.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.12 | JUC05013150.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.08 | JUC05013143.hg.1 | ARAP3 |
| TC05001872.hg.1 | 2.07 | JUC05013166.hg.1 | ARAP3 |
| TC05001872.hg.1 | -2 | PSR05025783.hg.1 | ARAP3 |
| TC05001872.hg.1 | -2.06 | PSR05025790.hg.1 | ARAP3 |
| TC05001872.hg.1 | -2.25 | JUC05013160.hg.1 | ARAP3 |
| TC05001872.hg.1 | -2.3 | PSR05025785.hg.1 | ARAP3 |
| TC05001872.hg.1 | -3.27 | PSR05025792.hg.1 | ARAP3 |
| TC05001872.hg.1 | -3.76 | PSR05025819.hg.1 | ARAP3 |
| TC05001872.hg.1 | -3.8 | JUC05013153.hg.1 | ARAP3 |
| TC05001872.hg.1 | -5.09 | JUC05013177.hg.1 | ARAP3 |
| TC05001872.hg.1 | -6.45 | PSR05025786.hg.1 | ARAP3 |
| TC05003436.hg.1 | 2.88 | PSR05028923.hg.1 | RAB24 |
| TC05003436.hg.1 | -2.16 | JUC05019767.hg.1 | RAB24 |
| TC06001142.hg.1 | 2.88 | PSR06013575.hg.1 | FNDC1 |
| TC06001142.hg.1 | 2.25 | PSR06013573.hg.1 | FNDC1 |
| TC06001142.hg.1 | -2.58 | JUC06006699.hg.1 | FNDC1 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC07001087.hg.1 | 2.88 | PSR07016753.hg.1 | TMEM184A |
| TC07001087.hg.1 | 2.12 | PSR07016751.hg.1 | TMEM184A |
| TC07001087.hg.1 | 2.11 | JUC07008114.hg.1 | TMEM184A |
| TC07001087.hg.1 | 2.09 | PSR07016747.hg.1 | TMEM184A |
| TC07001087.hg.1 | 2.07 | JUC07008128.hg.1 | TMEM184A |
| TC07001124.hg.1 | 2.88 | JUC07008492.hg.1 | PMS2 |
| TC07001124.hg.1 | -3.36 | PSR07017415.hg.1 | PMS2 |
| TC0X001324.hg.1 | 2.88 | PSR0X017758.hg.1 | FAM70A |
| TC0X001324.hg.1 | 2.33 | JUC0X009044.hg.1 | FAM70A |
| TC0X001324.hg.1 | 2.25 | JUC0X009047.hg.1 | FAM70A |
| TC0X001324.hg.1 | 2 | JUC0X009037.hg.1 | FAM70A |
| TC0X001324.hg.1 | -2.29 | JUC0X009045.hg.1 | FAM70A |
| TC0X001324.hg.1 | -2.36 | PSR0X017760.hg.1 | FAM70A |
| TC13000717.hg.1 | 2.88 | PSR13008298.hg.1 | PCDH9 |
| TC13000717.hg.1 | 2.16 | PSR13008301.hg.1 | PCDH9 |
| TC13000717.hg.1 | 2.08 | JUC13004850.hg.1 | PCDH9 |
| TC13000717.hg.1 | -2 | PSR13008296.hg.1 | PCDH9 |
| TC13000717.hg.1 | -2.19 | PSR13008291.hg.1 | PCDH9 |
| TC13000717.hg.1 | -2.39 | JUC13004847.hg.1 | PCDH9 |
| TC13000717.hg.1 | -2.51 | JUC13004854.hg.1 | PCDH9 |
| TC13000717.hg.1 | -2.51 | JUC13004855.hg.1 | PCDH9 |
| TC13000717.hg.1 | -3.2 | PSR13008287.hg.1 | PCDH9 |
| TC13000717.hg.1 | -3.44 | PSR13008290.hg.1 | PCDH9 |
| TC13000717.hg.1 | -3.44 | JUC13004846.hg.1 | PCDH9 |
| TC13000717.hg.1 | -3.95 | JUC13004849.hg.1 | PCDH9 |
| TC13000717.hg.1 | -4.35 | PSR13008294.hg.1 | PCDH9 |
| TC13000717.hg.1 | -4.61 | JUC13004853.hg.1 | PCDH9 |
| TC13000717.hg.1 | -4.64 | PSR13008285.hg.1 | PCDH9 |
| TC13000717.hg.1 | -6.55 | PSR13008286.hg.1 | PCDH9 |
| TC13000717.hg.1 | -8.26 | JUC13004852.hg.1 | PCDH9 |
| TC13000892.hg.1 | 2.88 | JUC13005856.hg.1 | PCID2 |
| TC13000892.hg.1 | 2.14 | PSR13009947.hg.1 | PCID2 |
| TC13000892.hg.1 | 2.05 | PSR13009962.hg.1 | PCID2 |
| TC13000892.hg.1 | -4.22 | PSR13009956.hg.1 | PCID2 |
| TC14001217.hg.1 | 2.88 | JUC14006996.hg.1 | ZBTB25 |
| TC14001217.hg.1 | -2.14 | JUC14006995.hg.1 | ZBTB25 |
| TC14001217.hg.1 | -2.39 | PSR14013857.hg.1 | ZBTB25 |
| TC14001217.hg.1 | -7.52 | JUC14006993.hg.1 | ZBTB25 |
| TC16000660.hg.1 | 2.88 | JUC16005223.hg.1 | CRISPLD2 |
| TC16000660.hg.1 | 2.09 | JUC16005226.hg.1 | CRISPLD2 |
| TC16000660.hg.1 | 2.05 | JUC16005222.hg.1 | CRISPLD2 |
| TC16000660.hg.1 | -2.65 | PSR16009326.hg.1 | CRISPLD2 |
| TC16000660.hg.1 | -2.87 | PSR16009331.hg.1 | CRISPLD2 |
| TC16000660.hg.1 | -6.55 | PSR16009328.hg.1 | CRISPLD2 |
| TC16000660.hg.1 | -9.79 | PSR16009339.hg.1 | CRISPLD2 |
| TC17001118.hg.1 | 2.88 | JUC17008543.hg.1 | MYH10 |
| TC17001118.hg.1 | 2.54 | JUC17008578.hg.1 | MYH10 |
| TC17001118.hg.1 | 2.42 | JUC17008575.hg.1 | MYH10 |
| TC17001118.hg.1 | 2.3 | PSR17015038.hg.1 | MYH10 |
| TC17001118.hg.1 | 2.06 | PSR17015086.hg.1 | MYH10 |
| TC17001118.hg.1 | -2.5 | JUC17008570.hg.1 | MYH10 |
| TC17001903.hg.1 | 2.88 | JUC17014510.hg.1 | ST6GALNAC |
| TC17001903.hg.1 | 2.16 | JUC17014513.hg.1 | ST6GALNAC |
| TC17001903.hg.1 | -2.03 | PSR17025820.hg.1 | ST6GALNAC |
| TC17001903.hg.1 | -2.05 | PSR17025818.hg.1 | ST6GALNAC |
| TC17001903.hg.1 | -2.24 | PSR17025825.hg.1 | ST6GALNAC |
| TC17001903.hg.1 | -3.29 | JUC17014514.hg.1 | ST6GALNAC |
| TC17001903.hg.1 | -5.36 | JUC17014515.hg.1 | ST6GALNAC |

| | | | |
|-----------------|-------|------------------|--------|
| TC19000144.hg.1 | 2.88 | JUC19001375.hg.1 | CERS4 |
| TC19000144.hg.1 | 2.68 | PSR19002283.hg.1 | CERS4 |
| TC19000144.hg.1 | 2.66 | PSR19002297.hg.1 | CERS4 |
| TC19000144.hg.1 | 2.32 | JUC19001377.hg.1 | CERS4 |
| TC19000144.hg.1 | 2.23 | PSR19002294.hg.1 | CERS4 |
| TC19000144.hg.1 | 2.22 | PSR19002284.hg.1 | CERS4 |
| TC19000144.hg.1 | -2.02 | PSR19002293.hg.1 | CERS4 |
| TC19000144.hg.1 | -2.32 | PSR19002291.hg.1 | CERS4 |
| TC19000144.hg.1 | -2.48 | JUC19001368.hg.1 | CERS4 |
| TC19000144.hg.1 | -2.82 | PSR19002285.hg.1 | CERS4 |
| TC01001993.hg.1 | 2.87 | JUC01016796.hg.1 | EFCAB2 |
| TC01001993.hg.1 | 2.27 | JUC01016805.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.06 | JUC01016807.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.12 | PSR01030863.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.15 | JUC01016811.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.19 | PSR01030900.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.22 | PSR01030873.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.23 | PSR01030860.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.28 | PSR01030865.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.3 | PSR01030896.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.32 | PSR01030888.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.39 | JUC01016798.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.45 | PSR01030898.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.49 | JUC01016808.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -2.6 | PSR01030889.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -3.02 | JUC01016797.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -3.72 | PSR01030884.hg.1 | EFCAB2 |
| TC01001993.hg.1 | -4.04 | JUC01016801.hg.1 | EFCAB2 |
| TC02000524.hg.1 | 2.87 | PSR02008183.hg.1 | KDM3A |
| TC02000524.hg.1 | 2.8 | JUC02004174.hg.1 | KDM3A |
| TC02000524.hg.1 | 2.71 | PSR02008187.hg.1 | KDM3A |
| TC02000524.hg.1 | 2.55 | PSR02008181.hg.1 | KDM3A |
| TC02000524.hg.1 | 2.5 | JUC02004168.hg.1 | KDM3A |
| TC02000524.hg.1 | 2.27 | JUC02004154.hg.1 | KDM3A |
| TC02000524.hg.1 | 2.2 | PSR02008142.hg.1 | KDM3A |
| TC02000524.hg.1 | -2.09 | PSR02008168.hg.1 | KDM3A |
| TC02000524.hg.1 | -2.43 | JUC02004184.hg.1 | KDM3A |
| TC02000524.hg.1 | -2.86 | JUC02004189.hg.1 | KDM3A |
| TC04000859.hg.1 | 2.87 | JUC04006355.hg.1 | CEP44 |
| TC04000859.hg.1 | 2.79 | PSR04011856.hg.1 | CEP44 |
| TC04000859.hg.1 | -2.28 | JUC04006353.hg.1 | CEP44 |
| TC06000894.hg.1 | 2.87 | JUC06005014.hg.1 | WISP3 |
| TC06000894.hg.1 | 2.79 | PSR06010559.hg.1 | WISP3 |
| TC06000894.hg.1 | 2.63 | JUC06005003.hg.1 | WISP3 |
| TC06000894.hg.1 | 2.62 | PSR06010544.hg.1 | WISP3 |
| TC06000894.hg.1 | -2.8 | JUC06005007.hg.1 | WISP3 |
| TC07000276.hg.1 | 2.87 | JUC07002044.hg.1 | OGDH |
| TC07000276.hg.1 | 2.26 | JUC07002039.hg.1 | OGDH |
| TC07000276.hg.1 | -2.62 | PSR07004280.hg.1 | OGDH |
| TC07000449.hg.1 | 2.87 | JUC07002913.hg.1 | ELN |
| TC07000449.hg.1 | 2.83 | JUC07002925.hg.1 | ELN |
| TC07000449.hg.1 | 2.61 | JUC07002932.hg.1 | ELN |
| TC07000449.hg.1 | 2.53 | PSR07006046.hg.1 | ELN |
| TC07000449.hg.1 | 2.44 | JUC07002917.hg.1 | ELN |
| TC07000449.hg.1 | 2.29 | JUC07002924.hg.1 | ELN |
| TC07000449.hg.1 | 2.23 | PSR07005982.hg.1 | ELN |
| TC07000449.hg.1 | 2.2 | JUC07002890.hg.1 | ELN |
| TC07000449.hg.1 | 2.15 | PSR07006007.hg.1 | ELN |

| | | | |
|-----------------|-------|------------------|--------|
| TC07000449.hg.1 | 2.15 | PSR07006055.hg.1 | ELN |
| TC07000449.hg.1 | 2.09 | PSR07005992.hg.1 | ELN |
| TC07000449.hg.1 | 2.05 | PSR07005983.hg.1 | ELN |
| TC07000449.hg.1 | 2.01 | JUC07002877.hg.1 | ELN |
| TC07000449.hg.1 | -2 | PSR07006025.hg.1 | ELN |
| TC07000449.hg.1 | -2.09 | JUC07002907.hg.1 | ELN |
| TC07000449.hg.1 | -2.11 | JUC07002903.hg.1 | ELN |
| TC07000449.hg.1 | -2.13 | JUC07002914.hg.1 | ELN |
| TC07000449.hg.1 | -2.29 | PSR07005989.hg.1 | ELN |
| TC07000449.hg.1 | -2.3 | PSR07006030.hg.1 | ELN |
| TC07000449.hg.1 | -2.4 | JUC07002918.hg.1 | ELN |
| TC07000449.hg.1 | -2.44 | PSR07006000.hg.1 | ELN |
| TC07000449.hg.1 | -2.55 | PSR07005986.hg.1 | ELN |
| TC07000449.hg.1 | -2.56 | JUC07002928.hg.1 | ELN |
| TC07000449.hg.1 | -2.79 | JUC07002911.hg.1 | ELN |
| TC07000449.hg.1 | -2.8 | JUC07002874.hg.1 | ELN |
| TC07000449.hg.1 | -2.81 | PSR07006032.hg.1 | ELN |
| TC07000449.hg.1 | -2.83 | PSR07005991.hg.1 | ELN |
| TC07000449.hg.1 | -2.86 | JUC07002886.hg.1 | ELN |
| TC07000449.hg.1 | -2.87 | PSR07006019.hg.1 | ELN |
| TC07000449.hg.1 | -2.87 | JUC07002930.hg.1 | ELN |
| TC07000449.hg.1 | -2.9 | JUC07002878.hg.1 | ELN |
| TC07000449.hg.1 | -2.93 | PSR07005993.hg.1 | ELN |
| TC07000449.hg.1 | -3.03 | JUC07002873.hg.1 | ELN |
| TC07000449.hg.1 | -3.15 | PSR07005981.hg.1 | ELN |
| TC07000449.hg.1 | -3.19 | PSR07006008.hg.1 | ELN |
| TC07000449.hg.1 | -3.35 | PSR07005999.hg.1 | ELN |
| TC07000449.hg.1 | -3.4 | JUC07002919.hg.1 | ELN |
| TC07000449.hg.1 | -3.52 | PSR07006012.hg.1 | ELN |
| TC07000449.hg.1 | -3.74 | JUC07002882.hg.1 | ELN |
| TC07000449.hg.1 | -3.9 | JUC07002883.hg.1 | ELN |
| TC07000449.hg.1 | -3.91 | JUC07002929.hg.1 | ELN |
| TC07000449.hg.1 | -3.99 | PSR07006022.hg.1 | ELN |
| TC07000449.hg.1 | -4.12 | PSR07006023.hg.1 | ELN |
| TC07000449.hg.1 | -4.21 | PSR07006006.hg.1 | ELN |
| TC07000449.hg.1 | -4.39 | JUC07002920.hg.1 | ELN |
| TC07000449.hg.1 | -4.42 | PSR07006015.hg.1 | ELN |
| TC07000449.hg.1 | -4.66 | JUC07002916.hg.1 | ELN |
| TC07000449.hg.1 | -4.71 | JUC07002904.hg.1 | ELN |
| TC07000449.hg.1 | -4.87 | JUC07002888.hg.1 | ELN |
| TC07000449.hg.1 | -5.09 | PSR07005987.hg.1 | ELN |
| TC07000449.hg.1 | -5.18 | PSR07005963.hg.1 | ELN |
| TC07000449.hg.1 | -5.19 | JUC07002900.hg.1 | ELN |
| TC07000449.hg.1 | -5.66 | JUC07002891.hg.1 | ELN |
| TC07000449.hg.1 | -5.67 | PSR07006021.hg.1 | ELN |
| TC07000449.hg.1 | -5.75 | PSR07006014.hg.1 | ELN |
| TC07000449.hg.1 | -6.04 | JUC07002912.hg.1 | ELN |
| TC07000449.hg.1 | -6.14 | PSR07006031.hg.1 | ELN |
| TC07000449.hg.1 | -6.33 | PSR07005997.hg.1 | ELN |
| TC07000449.hg.1 | -6.36 | PSR07006017.hg.1 | ELN |
| TC07000449.hg.1 | -8.04 | JUC07002906.hg.1 | ELN |
| TC07001568.hg.1 | 2.87 | JUC07011800.hg.1 | SEMA3A |
| TC07001568.hg.1 | 2.08 | PSR07023692.hg.1 | SEMA3A |
| TC07001568.hg.1 | 2.03 | JUC07011795.hg.1 | SEMA3A |
| TC07001568.hg.1 | -2 | PSR07023703.hg.1 | SEMA3A |
| TC07001568.hg.1 | -2.05 | PSR07023701.hg.1 | SEMA3A |
| TC07001568.hg.1 | -2.29 | PSR07023702.hg.1 | SEMA3A |
| TC07001568.hg.1 | -4.24 | JUC07011806.hg.1 | SEMA3A |

| | | | |
|-----------------|--------|------------------|-------------|
| TC09001468.hg.1 | 2.87 | PSR09018162.hg.1 | PTPN3 |
| TC09001468.hg.1 | 2.24 | PSR09018157.hg.1 | PTPN3 |
| TC09001468.hg.1 | 2.11 | JUC09009806.hg.1 | PTPN3 |
| TC09001468.hg.1 | 2.09 | JUC09009800.hg.1 | PTPN3 |
| TC09001643.hg.1 | 2.87 | JUC09011259.hg.1 | CRAT |
| TC09001643.hg.1 | 2.76 | JUC09011256.hg.1 | CRAT |
| TC09001643.hg.1 | 2.4 | JUC09011253.hg.1 | CRAT |
| TC09001643.hg.1 | 2.3 | PSR09020977.hg.1 | CRAT |
| TC09001643.hg.1 | 2.07 | JUC09011241.hg.1 | CRAT |
| TC09001643.hg.1 | 2.04 | PSR09020964.hg.1 | CRAT |
| TC09001643.hg.1 | 2 | PSR09020960.hg.1 | CRAT |
| TC11000684.hg.1 | 2.87 | JUC11004527.hg.1 | SSH3 |
| TC11000684.hg.1 | 2.64 | JUC11004534.hg.1 | SSH3 |
| TC11000684.hg.1 | -2 | JUC11004529.hg.1 | SSH3 |
| TC11000684.hg.1 | -2.83 | PSR11008875.hg.1 | SSH3 |
| TC15001501.hg.1 | 2.87 | JUC15007619.hg.1 | GTF2A2 |
| TC15001501.hg.1 | -2.12 | PSR15014142.hg.1 | GTF2A2 |
| TC16000137.hg.1 | 2.87 | JUC16001060.hg.1 | UBN1 |
| TC16000137.hg.1 | 2.17 | PSR16002155.hg.1 | UBN1 |
| TC19001826.hg.1 | 2.87 | PSR19024692.hg.1 | NLRP12 |
| TC19001826.hg.1 | -2.4 | JUC19014033.hg.1 | NLRP12 |
| TC19001826.hg.1 | -2.75 | JUC19014037.hg.1 | NLRP12 |
| TC20000544.hg.1 | 2.87 | PSR20007852.hg.1 | SCRT2, SRXI |
| TC20000544.hg.1 | 2.72 | JUC20004093.hg.1 | SCRT2, SRXI |
| TC20000544.hg.1 | 2.13 | PSR20007851.hg.1 | SCRT2, SRXI |
| TC22001460.hg.1 | 2.87 | PSR22002936.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | 2.19 | JUC22009158.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | 2.17 | JUC22009178.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -2.48 | PSR22002918.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -2.54 | PSR22002927.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -2.74 | JUC22009170.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -3.24 | JUC22009190.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -3.46 | JUC22009176.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -4.65 | PSR22002879.hg.1 | GGT1, GGT2 |
| TC22001460.hg.1 | -18.14 | JUC22009191.hg.1 | GGT1, GGT2 |
| TC6_mcf_hap5000 | 2.87 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.6 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.56 | PSR6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.5 | PSR6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.48 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.45 | PSR6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.37 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.32 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.29 | PSR6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.17 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.16 | PSR6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.09 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.02 | PSR6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | 2.02 | JUC6_mcf_hap5000 | DDR1 |
| TC6_mcf_hap5000 | -2.86 | PSR6_mcf_hap5000 | DDR1 |
| TC02002035.hg.1 | 2.86 | PSR02032537.hg.1 | TGOLN2 |
| TC02002035.hg.1 | 2.64 | JUC02016803.hg.1 | TGOLN2 |
| TC02002035.hg.1 | 2.16 | JUC02016806.hg.1 | TGOLN2 |
| TC02002035.hg.1 | 2.08 | PSR02032535.hg.1 | TGOLN2 |
| TC02002035.hg.1 | 2.01 | PSR02032536.hg.1 | TGOLN2 |
| TC03000502.hg.1 | 2.86 | JUC03004713.hg.1 | COL8A1 |
| TC03000502.hg.1 | 2.19 | PSR03009426.hg.1 | COL8A1 |
| TC03000502.hg.1 | 2.15 | PSR03009425.hg.1 | COL8A1 |

| | | | |
|-----------------|-------|------------------|--------|
| TC04000503.hg.1 | 2.86 | JUC04003831.hg.1 | BMPR1B |
| TC04000503.hg.1 | 2.82 | PSR04007403.hg.1 | BMPR1B |
| TC04000503.hg.1 | 2.33 | PSR04007402.hg.1 | BMPR1B |
| TC04000503.hg.1 | 2.25 | PSR04007396.hg.1 | BMPR1B |
| TC04000503.hg.1 | -2.08 | PSR04007420.hg.1 | BMPR1B |
| TC04000503.hg.1 | -2.54 | JUC04003844.hg.1 | BMPR1B |
| TC04000503.hg.1 | -2.76 | PSR04007397.hg.1 | BMPR1B |
| TC04000503.hg.1 | -3.64 | PSR04007399.hg.1 | BMPR1B |
| TC04000503.hg.1 | -3.78 | PSR04007416.hg.1 | BMPR1B |
| TC04000503.hg.1 | -4.15 | PSR04007398.hg.1 | BMPR1B |
| TC04000503.hg.1 | -4.91 | PSR04007395.hg.1 | BMPR1B |
| TC04000503.hg.1 | -5.9 | PSR04007392.hg.1 | BMPR1B |
| TC04000503.hg.1 | -7.43 | PSR04007400.hg.1 | BMPR1B |
| TC08000207.hg.1 | 2.86 | JUC08001431.hg.1 | PTK2B |
| TC08000207.hg.1 | 2.63 | JUC08001455.hg.1 | PTK2B |
| TC08000207.hg.1 | 2.15 | PSR08002962.hg.1 | PTK2B |
| TC08000207.hg.1 | 2.1 | JUC08001430.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.11 | PSR08002960.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.2 | PSR08002948.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.22 | JUC08001447.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.48 | PSR08002951.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.51 | PSR08002974.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.52 | PSR08002929.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.55 | PSR08002950.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.66 | PSR08002955.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.8 | PSR08002954.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.83 | PSR08002982.hg.1 | PTK2B |
| TC08000207.hg.1 | -2.89 | PSR08002957.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.1 | PSR08002941.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.1 | JUC08001424.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.17 | PSR08002956.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.23 | PSR08002977.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.25 | PSR08002933.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.36 | PSR08002980.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.37 | JUC08001437.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.49 | PSR08002924.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.5 | JUC08001443.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.51 | PSR08002934.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.63 | JUC08001458.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.91 | PSR08002979.hg.1 | PTK2B |
| TC08000207.hg.1 | -3.99 | PSR08002967.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.03 | PSR08002927.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.07 | PSR08002926.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.07 | JUC08001445.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.19 | JUC08001466.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.35 | PSR08002922.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.39 | JUC08001436.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.51 | PSR08002940.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.68 | JUC08001450.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.7 | JUC08001439.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.81 | PSR08002930.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.88 | JUC08001467.hg.1 | PTK2B |
| TC08000207.hg.1 | -4.92 | PSR08002932.hg.1 | PTK2B |
| TC08000207.hg.1 | -5.27 | PSR08002919.hg.1 | PTK2B |
| TC08000207.hg.1 | -5.29 | PSR08002925.hg.1 | PTK2B |
| TC08000207.hg.1 | -5.39 | PSR08002920.hg.1 | PTK2B |
| TC08000207.hg.1 | -6.3 | JUC08001426.hg.1 | PTK2B |
| TC08000207.hg.1 | -6.75 | JUC08001454.hg.1 | PTK2B |

| | | | |
|-----------------|--------|------------------|-------------|
| TC08000207.hg.1 | -7.25 | JUC08001461.hg.1 | PTK2B |
| TC08000207.hg.1 | -9.42 | PSR08002923.hg.1 | PTK2B |
| TC08000207.hg.1 | -11.85 | PSR08002921.hg.1 | PTK2B |
| TC08000207.hg.1 | -12.09 | JUC08001423.hg.1 | PTK2B |
| TC08001481.hg.1 | 2.86 | JUC08009825.hg.1 | PABPC1 |
| TC08001481.hg.1 | -2.15 | PSR08019327.hg.1 | PABPC1 |
| TC10000941.hg.1 | 2.86 | JUC10006735.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -2 | JUC10006739.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -2.74 | JUC10006752.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -2.93 | JUC10006738.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -3.02 | PSR10011561.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -3.35 | PSR10011553.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -5.37 | JUC10006753.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -5.74 | PSR10011552.hg.1 | DPYSL4 |
| TC10000941.hg.1 | -24.11 | JUC10006750.hg.1 | DPYSL4 |
| TC10001486.hg.1 | 2.86 | JUC10010950.hg.1 | GLUD1 |
| TC10001486.hg.1 | 2.21 | PSR10018812.hg.1 | GLUD1 |
| TC10001486.hg.1 | 2.13 | JUC10010958.hg.1 | GLUD1 |
| TC11000702.hg.1 | 2.86 | JUC11004648.hg.1 | ALDH3B1 |
| TC11000702.hg.1 | 2.05 | PSR11009096.hg.1 | ALDH3B1 |
| TC12001543.hg.1 | 2.86 | JUC12011278.hg.1 | CSAD |
| TC12001543.hg.1 | -2.04 | PSR12020356.hg.1 | CSAD |
| TC12001543.hg.1 | -2.2 | JUC12011281.hg.1 | CSAD |
| TC13000111.hg.1 | 2.86 | JUC13000727.hg.1 | BRCA2 |
| TC13000111.hg.1 | -2.34 | PSR13001192.hg.1 | BRCA2 |
| TC14002258.hg.1 | 2.86 | PSR14017645.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | 2.43 | JUC14011563.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | 2.4 | JUC14011502.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | 2.4 | JUC14011505.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | 2.4 | JUC14011507.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | 2.18 | PSR14017759.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | -2.31 | PSR14017756.hg.1 | IGHA2, IGHE |
| TC14002258.hg.1 | -2.59 | JUC14011487.hg.1 | IGHA2, IGHE |
| TC17001459.hg.1 | 2.86 | PSR17019334.hg.1 | NR1D1 |
| TC17001459.hg.1 | 2.8 | JUC17010958.hg.1 | NR1D1 |
| TC17001459.hg.1 | -3.72 | JUC17010959.hg.1 | NR1D1 |
| TC18000565.hg.1 | 2.86 | PSR18005886.hg.1 | TMX3 |
| TC18000565.hg.1 | 2.53 | JUC18003929.hg.1 | TMX3 |
| TC18000565.hg.1 | 2.43 | JUC18003939.hg.1 | TMX3 |
| TC18000565.hg.1 | -2.04 | PSR18005904.hg.1 | TMX3 |
| TC22000861.hg.1 | 2.86 | JUC22006030.hg.1 | SCUBE1 |
| TC22000861.hg.1 | -2.12 | PSR22014579.hg.1 | SCUBE1 |
| TC22000861.hg.1 | -2.15 | JUC22006013.hg.1 | SCUBE1 |
| TC6_mann_hap400 | 2.86 | PSR6_mann_hap400 | HLA-A |
| TC6_mann_hap400 | 2.81 | PSR6_mann_hap400 | HLA-A |
| TC6_mann_hap400 | 2.3 | JUC6_mann_hap400 | HLA-A |
| TC6_mann_hap400 | 2.02 | PSR6_mann_hap400 | HLA-A |
| TC6_mann_hap400 | -4.96 | JUC6_mann_hap400 | HLA-A |
| TC02001354.hg.1 | 2.85 | PSR02021099.hg.1 | MRPL44 |
| TC02001354.hg.1 | -2.11 | JUC02011237.hg.1 | MRPL44 |
| TC02001354.hg.1 | -3.31 | JUC02011239.hg.1 | MRPL44 |
| TC02001768.hg.1 | 2.85 | PSR02028514.hg.1 | THUMPD2 |
| TC02001768.hg.1 | -2.44 | PSR02028524.hg.1 | THUMPD2 |
| TC02001768.hg.1 | -2.59 | JUC02014949.hg.1 | THUMPD2 |
| TC02002620.hg.1 | 2.85 | JUC02021895.hg.1 | TMEM194B |
| TC02002620.hg.1 | 2.69 | JUC02021887.hg.1 | TMEM194B |
| TC02002620.hg.1 | 2.26 | PSR02041984.hg.1 | TMEM194B |
| TC02002620.hg.1 | 2.06 | PSR02041992.hg.1 | TMEM194B |

| | | | |
|-----------------|--------|------------------|------------|
| TC02002620.hg.1 | 2.03 | JUC02021896.hg.1 | TMEM194B |
| TC04000699.hg.1 | 2.85 | JUC04005307.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.41 | PSR04009909.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.38 | JUC04005308.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.36 | PSR04009899.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.36 | PSR04009906.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.3 | PSR04009911.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.25 | PSR04009916.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.19 | PSR04009913.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.15 | PSR04009902.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.13 | PSR04009920.hg.1 | GAB1 |
| TC04000699.hg.1 | 2.1 | PSR04009905.hg.1 | GAB1 |
| TC04000699.hg.1 | -2.79 | JUC04005304.hg.1 | GAB1 |
| TC04002920.hg.1 | 2.85 | JUC04016905.hg.1 | NAAA |
| TC04002920.hg.1 | -2.02 | PSR04017821.hg.1 | NAAA |
| TC04002920.hg.1 | -2.08 | PSR04017818.hg.1 | NAAA |
| TC04002920.hg.1 | -2.2 | PSR04017801.hg.1 | NAAA |
| TC04002920.hg.1 | -2.35 | PSR04017815.hg.1 | NAAA |
| TC04002920.hg.1 | -2.75 | JUC04016891.hg.1 | NAAA |
| TC05001627.hg.1 | 2.85 | JUC05011433.hg.1 | FLJ35946 |
| TC05001627.hg.1 | -2.64 | PSR05022164.hg.1 | FLJ35946 |
| TC05001627.hg.1 | -10.73 | PSR05022166.hg.1 | FLJ35946 |
| TC09000217.hg.1 | 2.85 | JUC09001374.hg.1 | TRMT10B |
| TC09000217.hg.1 | -3.15 | PSR09002571.hg.1 | TRMT10B |
| TC11001912.hg.1 | 2.85 | JUC11011988.hg.1 | MAP4K2 |
| TC11001912.hg.1 | 2.23 | JUC11012003.hg.1 | MAP4K2 |
| TC11001912.hg.1 | 2.15 | JUC11011995.hg.1 | MAP4K2 |
| TC11001912.hg.1 | -2.7 | PSR11022740.hg.1 | MAP4K2 |
| TC11002369.hg.1 | 2.85 | PSR11028527.hg.1 | C1QTNF5, M |
| TC11002369.hg.1 | 2.19 | JUC11015219.hg.1 | C1QTNF5, M |
| TC11002369.hg.1 | 2.05 | PSR11028528.hg.1 | C1QTNF5, M |
| TC15000664.hg.1 | 2.85 | JUC15002901.hg.1 | NEO1 |
| TC15000664.hg.1 | 2.65 | JUC15002921.hg.1 | NEO1 |
| TC15000664.hg.1 | 2.45 | PSR15005712.hg.1 | NEO1 |
| TC15000664.hg.1 | 2.39 | JUC15002922.hg.1 | NEO1 |
| TC15000664.hg.1 | 2.14 | PSR15005701.hg.1 | NEO1 |
| TC15000664.hg.1 | 2 | PSR15005703.hg.1 | NEO1 |
| TC22000025.hg.1 | 2.85 | JUC22000109.hg.1 | BCL2L13 |
| TC22000025.hg.1 | 2.47 | JUC22000097.hg.1 | BCL2L13 |
| TC22000025.hg.1 | 2.06 | PSR22000194.hg.1 | BCL2L13 |
| TC22000025.hg.1 | 2.05 | PSR22000167.hg.1 | BCL2L13 |
| TC01000100.hg.1 | 2.84 | PSR01001600.hg.1 | PER3 |
| TC01000100.hg.1 | 2.35 | PSR01001599.hg.1 | PER3 |
| TC01000100.hg.1 | 2.12 | JUC01000847.hg.1 | PER3 |
| TC01000100.hg.1 | 2.07 | PSR01001613.hg.1 | PER3 |
| TC01000100.hg.1 | -2.25 | PSR01001618.hg.1 | PER3 |
| TC01000100.hg.1 | -2.37 | JUC01000858.hg.1 | PER3 |
| TC01000100.hg.1 | -3.21 | JUC01000840.hg.1 | PER3 |
| TC01000391.hg.1 | 2.84 | JUC01003125.hg.1 | YTHDF2 |
| TC01000391.hg.1 | 2.59 | JUC01003128.hg.1 | YTHDF2 |
| TC01000391.hg.1 | -2.17 | PSR01006027.hg.1 | YTHDF2 |
| TC01003238.hg.1 | 2.84 | JUC01026491.hg.1 | THEM4 |
| TC01003238.hg.1 | -2.03 | JUC01026493.hg.1 | THEM4 |
| TC01003238.hg.1 | -2.16 | PSR01050000.hg.1 | THEM4 |
| TC01003238.hg.1 | -2.27 | JUC01026490.hg.1 | THEM4 |
| TC01003238.hg.1 | -4.53 | PSR01050001.hg.1 | THEM4 |
| TC02001654.hg.1 | 2.84 | PSR02026423.hg.1 | DNAJC27 |
| TC02001654.hg.1 | 2.33 | JUC02013793.hg.1 | DNAJC27 |

| | | | |
|-----------------|-------|------------------|------------|
| TC02001654.hg.1 | 2.09 | PSR02026428.hg.1 | DNAJC27 |
| TC02001654.hg.1 | 2.07 | PSR02026424.hg.1 | DNAJC27 |
| TC02001736.hg.1 | 2.84 | JUC02014589.hg.1 | STRN |
| TC02001736.hg.1 | 2.03 | JUC02014582.hg.1 | STRN |
| TC02001736.hg.1 | -2.13 | PSR02027904.hg.1 | STRN |
| TC02001736.hg.1 | -2.41 | JUC02014594.hg.1 | STRN |
| TC03001277.hg.1 | 2.84 | PSR03021958.hg.1 | CLASP2 |
| TC03001277.hg.1 | -2.24 | JUC03010950.hg.1 | CLASP2 |
| TC03001277.hg.1 | -2.83 | JUC03010916.hg.1 | CLASP2 |
| TC05000005.hg.1 | 2.84 | JUC05000069.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.3 | JUC05000061.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.21 | PSR05000139.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.12 | PSR05000109.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.12 | PSR05000131.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.11 | JUC05000068.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.08 | PSR05000129.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | 2.02 | JUC05000060.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | -2.2 | PSR05000138.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | -2.28 | PSR05000141.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | -2.36 | JUC05000055.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | -2.44 | PSR05000154.hg.1 | PDCD6, AHR |
| TC05000005.hg.1 | -3.88 | JUC05000082.hg.1 | PDCD6, AHR |
| TC06001229.hg.1 | 2.84 | JUC06007274.hg.1 | SLC22A23 |
| TC06001229.hg.1 | 2.05 | JUC06007262.hg.1 | SLC22A23 |
| TC06001229.hg.1 | 2.05 | JUC06007283.hg.1 | SLC22A23 |
| TC06001229.hg.1 | -2.14 | JUC06007281.hg.1 | SLC22A23 |
| TC06001229.hg.1 | -2.2 | PSR06014615.hg.1 | SLC22A23 |
| TC06001229.hg.1 | -2.61 | JUC06007273.hg.1 | SLC22A23 |
| TC06001229.hg.1 | -2.75 | JUC06007276.hg.1 | SLC22A23 |
| TC06001229.hg.1 | -2.98 | PSR06014616.hg.1 | SLC22A23 |
| TC0X000120.hg.1 | 2.84 | JUC0X000885.hg.1 | POLA1 |
| TC0X000120.hg.1 | 2.71 | JUC0X000881.hg.1 | POLA1 |
| TC0X000120.hg.1 | 2.45 | JUC0X000910.hg.1 | POLA1 |
| TC0X000120.hg.1 | 2.28 | JUC0X000897.hg.1 | POLA1 |
| TC0X000120.hg.1 | -2.07 | JUC0X000875.hg.1 | POLA1 |
| TC0X000120.hg.1 | -2.55 | JUC0X000906.hg.1 | POLA1 |
| TC0X000120.hg.1 | -2.57 | JUC0X000911.hg.1 | POLA1 |
| TC0X000120.hg.1 | -3 | PSR0X001641.hg.1 | POLA1 |
| TC10001550.hg.1 | 2.84 | JUC10011427.hg.1 | SORBS1 |
| TC10001550.hg.1 | 2.73 | JUC10011407.hg.1 | SORBS1 |
| TC10001550.hg.1 | 2.29 | JUC10011400.hg.1 | SORBS1 |
| TC10001550.hg.1 | 2.13 | JUC10011389.hg.1 | SORBS1 |
| TC10001550.hg.1 | 2.05 | JUC10011390.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.01 | PSR10019561.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.02 | PSR10019528.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.11 | PSR10019509.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.11 | JUC10011415.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.26 | JUC10011423.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.3 | PSR10019542.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.52 | JUC10011401.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.55 | JUC10011367.hg.1 | SORBS1 |
| TC10001550.hg.1 | -2.98 | PSR10019504.hg.1 | SORBS1 |
| TC10001550.hg.1 | -3.02 | JUC10011379.hg.1 | SORBS1 |
| TC12000237.hg.1 | 2.84 | PSR12002922.hg.1 | CMAS |
| TC12000237.hg.1 | 2.36 | JUC12001419.hg.1 | CMAS |
| TC12003294.hg.1 | 2.84 | JUC12020620.hg.1 | HOXC9 |
| TC12003294.hg.1 | 2.76 | JUC12020619.hg.1 | HOXC9 |
| TC12003294.hg.1 | 2.2 | PSR12005866.hg.1 | HOXC9 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC17001192.hg.1 | 2.84 | JUC17009272.hg.1 | SREBF1 |
| TC17001192.hg.1 | 2.01 | JUC17009274.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.08 | PSR17016237.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.43 | JUC17009280.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.5 | PSR17016232.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.5 | PSR17016246.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.61 | JUC17009282.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.72 | JUC17009270.hg.1 | SREBF1 |
| TC17001192.hg.1 | -2.82 | JUC17009287.hg.1 | SREBF1 |
| TC17001192.hg.1 | -5.41 | PSR17016234.hg.1 | SREBF1 |
| TC20000592.hg.1 | 2.84 | JUC20004460.hg.1 | PCNA |
| TC20000592.hg.1 | 2.38 | PSR20008655.hg.1 | PCNA |
| TC01003750.hg.1 | 2.83 | JUC01030027.hg.1 | ELK4, SLC45 |
| TC01003750.hg.1 | 2.31 | JUC01030030.hg.1 | ELK4, SLC45 |
| TC01003750.hg.1 | 2.25 | PSR01057516.hg.1 | ELK4, SLC45 |
| TC01003750.hg.1 | 2.09 | PSR01057521.hg.1 | ELK4, SLC45 |
| TC01003750.hg.1 | 2.09 | JUC01030039.hg.1 | ELK4, SLC45 |
| TC02001451.hg.1 | 2.83 | JUC02012209.hg.1 | FAM132B |
| TC02001451.hg.1 | 2.13 | PSR02023367.hg.1 | FAM132B |
| TC02001451.hg.1 | 2.11 | PSR02023377.hg.1 | FAM132B |
| TC02001451.hg.1 | 2.09 | JUC02012203.hg.1 | FAM132B |
| TC02001451.hg.1 | 2.01 | PSR02023376.hg.1 | FAM132B |
| TC03001380.hg.1 | 2.83 | JUC03011940.hg.1 | SHISA5 |
| TC03001380.hg.1 | 2.13 | PSR03023927.hg.1 | SHISA5 |
| TC03001380.hg.1 | 2.08 | JUC03011936.hg.1 | SHISA5 |
| TC05001406.hg.1 | 2.83 | JUC05010143.hg.1 | ADAMTS6 |
| TC05001406.hg.1 | 2.28 | JUC05010138.hg.1 | ADAMTS6 |
| TC05001406.hg.1 | -2.3 | JUC05010148.hg.1 | ADAMTS6 |
| TC05001406.hg.1 | -2.31 | JUC05010141.hg.1 | ADAMTS6 |
| TC05001406.hg.1 | -2.67 | PSR05019631.hg.1 | ADAMTS6 |
| TC05001406.hg.1 | -3.46 | JUC05010142.hg.1 | ADAMTS6 |
| TC05001406.hg.1 | -4.11 | JUC05010136.hg.1 | ADAMTS6 |
| TC06002035.hg.1 | 2.83 | JUC06012567.hg.1 | HDAC2 |
| TC06002035.hg.1 | 2.4 | PSR06025491.hg.1 | HDAC2 |
| TC06002035.hg.1 | 2.32 | JUC06012582.hg.1 | HDAC2 |
| TC06002035.hg.1 | 2 | PSR06025505.hg.1 | HDAC2 |
| TC08001030.hg.1 | 2.83 | JUC08006799.hg.1 | GFRA2 |
| TC08001030.hg.1 | 2.06 | JUC08006793.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.19 | PSR08013068.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.25 | JUC08006794.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.28 | JUC08006800.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.32 | JUC08006801.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.36 | PSR08013085.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.59 | JUC08006788.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.6 | JUC08006798.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.78 | PSR08013066.hg.1 | GFRA2 |
| TC08001030.hg.1 | -2.99 | PSR08013070.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3 | JUC08006796.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.05 | PSR08013094.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.09 | PSR08013069.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.16 | PSR08013087.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.41 | PSR08013091.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.51 | JUC08006804.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.6 | JUC08006803.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.8 | JUC08006792.hg.1 | GFRA2 |
| TC08001030.hg.1 | -3.93 | PSR08013099.hg.1 | GFRA2 |
| TC08001030.hg.1 | -4.03 | JUC08006805.hg.1 | GFRA2 |
| TC08001030.hg.1 | -4.14 | PSR08013097.hg.1 | GFRA2 |

| | | | |
|-----------------|-------|-------------------|--------|
| TC08001030.hg.1 | -4.2 | PSR08013086.hg.1 | GFRA2 |
| TC08001030.hg.1 | -4.99 | PSR08013084.hg.1 | GFRA2 |
| TC09000207.hg.1 | 2.83 | JUC09001297.hg.1 | MELK |
| TC09000207.hg.1 | 2.71 | PSR09002374.hg.1 | MELK |
| TC09000207.hg.1 | 2.48 | JUC09001301.hg.1 | MELK |
| TC09000207.hg.1 | 2.43 | JUC09001300.hg.1 | MELK |
| TC09000207.hg.1 | 2.29 | PSR09002403.hg.1 | MELK |
| TC09000207.hg.1 | 2.01 | JUC09001298.hg.1 | MELK |
| TC09000207.hg.1 | -2.04 | JUC09001275.hg.1 | MELK |
| TC6_cox_hap2000 | 2.83 | PSR6_cox_hap20036 | AGPAT1 |
| TC6_cox_hap2000 | 2.63 | JUC6_cox_hap20012 | AGPAT1 |
| TC6_cox_hap2000 | 2.45 | PSR6_cox_hap20036 | AGPAT1 |
| TC6_cox_hap2000 | -3.28 | JUC6_cox_hap20012 | AGPAT1 |
| TC6_mcf_hap5000 | 2.83 | PSR6_mcf_hap50033 | AGPAT1 |
| TC6_mcf_hap5000 | 2.63 | JUC6_mcf_hap50010 | AGPAT1 |
| TC6_mcf_hap5000 | 2.45 | PSR6_mcf_hap50033 | AGPAT1 |
| TC6_mcf_hap5000 | -3.28 | JUC6_mcf_hap50010 | AGPAT1 |
| TC6_qbl_hap6000 | 2.83 | PSR6_qbl_hap60034 | AGPAT1 |
| TC6_qbl_hap6000 | 2.63 | JUC6_qbl_hap60012 | AGPAT1 |
| TC6_qbl_hap6000 | 2.45 | PSR6_qbl_hap60034 | AGPAT1 |
| TC6_qbl_hap6000 | -3.28 | JUC6_qbl_hap60012 | AGPAT1 |
| TC01002284.hg.1 | 2.82 | JUC01018675.hg.1 | MFAP2 |
| TC01002284.hg.1 | -2.46 | JUC01018674.hg.1 | MFAP2 |
| TC01002284.hg.1 | -2.72 | PSR01034768.hg.1 | MFAP2 |
| TC01002284.hg.1 | -3.29 | PSR01034753.hg.1 | MFAP2 |
| TC01002284.hg.1 | -4.62 | PSR01034772.hg.1 | MFAP2 |
| TC01002284.hg.1 | -5.9 | PSR01034763.hg.1 | MFAP2 |
| TC01002284.hg.1 | -6.52 | PSR01034766.hg.1 | MFAP2 |
| TC01002284.hg.1 | -7.63 | PSR01034761.hg.1 | MFAP2 |
| TC01002284.hg.1 | -8.18 | PSR01034769.hg.1 | MFAP2 |
| TC01002284.hg.1 | -8.49 | PSR01034771.hg.1 | MFAP2 |
| TC01002284.hg.1 | -9.24 | PSR01034757.hg.1 | MFAP2 |
| TC02001649.hg.1 | 2.82 | PSR02026332.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2.66 | JUC02013713.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2.13 | PSR02026322.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2.13 | JUC02013702.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2.07 | JUC02013720.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2.06 | JUC02013705.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2.01 | PSR02026327.hg.1 | ITSN2 |
| TC02001649.hg.1 | 2 | JUC02013715.hg.1 | ITSN2 |
| TC02001649.hg.1 | -2.22 | JUC02013738.hg.1 | ITSN2 |
| TC03000309.hg.1 | 2.82 | JUC03003212.hg.1 | SEMA3B |
| TC03000309.hg.1 | 2.49 | JUC03003195.hg.1 | SEMA3B |
| TC03000309.hg.1 | 2.48 | JUC03003208.hg.1 | SEMA3B |
| TC03000309.hg.1 | 2.33 | PSR03006595.hg.1 | SEMA3B |
| TC03000309.hg.1 | 2.3 | PSR03006589.hg.1 | SEMA3B |
| TC03000309.hg.1 | 2.04 | JUC03003198.hg.1 | SEMA3B |
| TC03000309.hg.1 | -2.03 | PSR03006550.hg.1 | SEMA3B |
| TC03000309.hg.1 | -2.04 | PSR03006545.hg.1 | SEMA3B |
| TC03000309.hg.1 | -2.13 | JUC03003213.hg.1 | SEMA3B |
| TC03000309.hg.1 | -2.76 | PSR03006573.hg.1 | SEMA3B |
| TC03000309.hg.1 | -5.44 | JUC03003190.hg.1 | SEMA3B |
| TC03000334.hg.1 | 2.82 | PSR03007281.hg.1 | PHF7 |
| TC03000334.hg.1 | 2.79 | PSR03007238.hg.1 | PHF7 |
| TC03000334.hg.1 | 2.52 | JUC03003499.hg.1 | PHF7 |
| TC03000334.hg.1 | 2.17 | PSR03007237.hg.1 | PHF7 |
| TC03000334.hg.1 | 2.14 | PSR03007282.hg.1 | PHF7 |
| TC03001149.hg.1 | 2.82 | JUC03009932.hg.1 | CAMK1 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC03001149.hg.1 | 2.23 | PSR03019813.hg.1 | CAMK1 |
| TC03001149.hg.1 | 2.09 | PSR03019827.hg.1 | CAMK1 |
| TC03001149.hg.1 | 2.03 | PSR03019812.hg.1 | CAMK1 |
| TC03001149.hg.1 | -2.18 | JUC03009934.hg.1 | CAMK1 |
| TC03001514.hg.1 | 2.82 | JUC03013500.hg.1 | LOC1005069 |
| TC03001514.hg.1 | 2.27 | PSR03027559.hg.1 | LOC1005069 |
| TC03001514.hg.1 | 2.24 | JUC03013489.hg.1 | LOC1005069 |
| TC03001514.hg.1 | 2.15 | PSR03027558.hg.1 | LOC1005069 |
| TC03001514.hg.1 | 2.08 | JUC03013497.hg.1 | LOC1005069 |
| TC04000014.hg.1 | 2.82 | JUC04000138.hg.1 | TMEM175 |
| TC04000014.hg.1 | 2.65 | PSR04000331.hg.1 | TMEM175 |
| TC06004104.hg.1 | 2.82 | JUC06021389.hg.1 | TIAM2, LOC1 |
| TC06004104.hg.1 | -2.14 | PSR06013240.hg.1 | TIAM2, LOC1 |
| TC06004104.hg.1 | -2.16 | JUC06021395.hg.1 | TIAM2, LOC1 |
| TC06004104.hg.1 | -2.33 | JUC06021406.hg.1 | TIAM2, LOC1 |
| TC06004104.hg.1 | -2.5 | JUC06021421.hg.1 | TIAM2, LOC1 |
| TC07003393.hg.1 | 2.82 | JUC07021846.hg.1 | DBNL |
| TC07003393.hg.1 | -2.92 | PSR07004186.hg.1 | DBNL |
| TC07003393.hg.1 | -3.3 | JUC07021849.hg.1 | DBNL |
| TC0X000490.hg.1 | 2.82 | JUC0X003225.hg.1 | BHLHB9 |
| TC0X000490.hg.1 | 2.43 | JUC0X003227.hg.1 | BHLHB9 |
| TC0X000490.hg.1 | 2.23 | PSR0X006501.hg.1 | BHLHB9 |
| TC0X000754.hg.1 | 2.82 | JUC0X004984.hg.1 | SLC6A8 |
| TC0X000754.hg.1 | 2.62 | PSR0X009843.hg.1 | SLC6A8 |
| TC0X000754.hg.1 | 2.59 | PSR0X009831.hg.1 | SLC6A8 |
| TC0X000754.hg.1 | 2.31 | JUC0X004973.hg.1 | SLC6A8 |
| TC0X000754.hg.1 | 2.11 | PSR0X009839.hg.1 | SLC6A8 |
| TC0X000754.hg.1 | 2.06 | PSR0X009832.hg.1 | SLC6A8 |
| TC0X000754.hg.1 | 2 | PSR0X009842.hg.1 | SLC6A8 |
| TC10001061.hg.1 | 2.82 | PSR10013317.hg.1 | NMT2 |
| TC10001061.hg.1 | 2.17 | JUC10007664.hg.1 | NMT2 |
| TC10001061.hg.1 | 2.07 | PSR10013327.hg.1 | NMT2 |
| TC10001061.hg.1 | 2.05 | PSR10013298.hg.1 | NMT2 |
| TC12002032.hg.1 | 2.82 | PSR12026661.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.65 | JUC12014924.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.53 | JUC12014908.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.39 | JUC12014926.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.29 | JUC12014904.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.24 | PSR12026671.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.2 | PSR12026652.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.17 | JUC12014941.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.16 | PSR12026610.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | 2.04 | PSR12026627.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.03 | JUC12014919.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.11 | JUC12014927.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.3 | PSR12026619.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.41 | JUC12014940.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.48 | JUC12014949.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.49 | PSR12026636.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.52 | PSR12026614.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.56 | JUC12014917.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.81 | JUC12014932.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -2.96 | JUC12014938.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -3.03 | PSR12026618.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -3.03 | JUC12014923.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -3.52 | JUC12014930.hg.1 | CIT, MIR1178 |
| TC12002032.hg.1 | -3.59 | JUC12014947.hg.1 | CIT, MIR1178 |
| TC13000120.hg.1 | 2.82 | PSR13001294.hg.1 | NBEA |

| | | | |
|-----------------|-------|------------------|--------|
| TC13000120.hg.1 | 2.61 | JUC13000839.hg.1 | NBEA |
| TC13000120.hg.1 | 2.56 | JUC13000814.hg.1 | NBEA |
| TC13000120.hg.1 | 2.49 | JUC13000860.hg.1 | NBEA |
| TC13000120.hg.1 | 2.46 | JUC13000827.hg.1 | NBEA |
| TC13000120.hg.1 | 2.33 | JUC13000852.hg.1 | NBEA |
| TC13000120.hg.1 | 2.19 | PSR13001297.hg.1 | NBEA |
| TC13000120.hg.1 | 2.12 | JUC13000828.hg.1 | NBEA |
| TC13000120.hg.1 | 2.11 | PSR13001293.hg.1 | NBEA |
| TC13000120.hg.1 | 2.06 | PSR13001308.hg.1 | NBEA |
| TC13000120.hg.1 | 2.04 | JUC13000857.hg.1 | NBEA |
| TC13000120.hg.1 | 2.03 | JUC13000864.hg.1 | NBEA |
| TC13000120.hg.1 | -2.05 | JUC13000812.hg.1 | NBEA |
| TC13000120.hg.1 | -2.07 | JUC13000867.hg.1 | NBEA |
| TC13000120.hg.1 | -2.17 | JUC13000861.hg.1 | NBEA |
| TC13000120.hg.1 | -3.47 | JUC13000843.hg.1 | NBEA |
| TC17000657.hg.1 | 2.82 | JUC17004565.hg.1 | SGCA |
| TC17000657.hg.1 | 2.28 | PSR17008260.hg.1 | SGCA |
| TC17000657.hg.1 | -2.77 | JUC17004567.hg.1 | SGCA |
| TC17000657.hg.1 | -3.31 | JUC17004557.hg.1 | SGCA |
| TC17000657.hg.1 | -3.87 | JUC17004571.hg.1 | SGCA |
| TC01001682.hg.1 | 2.81 | PSR01026093.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.63 | JUC01013989.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.6 | PSR01026092.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.55 | PSR01026088.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.44 | PSR01026132.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.42 | JUC01013972.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.32 | PSR01026091.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.2 | JUC01013980.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.18 | PSR01026099.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.17 | JUC01013982.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.16 | JUC01013971.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.12 | JUC01013985.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.06 | PSR01026126.hg.1 | PPFIA4 |
| TC01001682.hg.1 | 2.06 | JUC01013983.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -2.07 | PSR01026115.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -2.18 | PSR01026130.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -2.45 | PSR01026119.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -2.85 | JUC01013979.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -2.87 | JUC01013965.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -3.68 | JUC01013986.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -4.03 | JUC01013967.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -4.37 | PSR01026129.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -4.93 | JUC01013988.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -6.57 | JUC01014001.hg.1 | PPFIA4 |
| TC01001682.hg.1 | -6.61 | PSR01026111.hg.1 | PPFIA4 |
| TC02000192.hg.1 | 2.81 | PSR02002785.hg.1 | CLIP4 |
| TC02000192.hg.1 | -2.01 | JUC02001411.hg.1 | CLIP4 |
| TC04000324.hg.1 | 2.81 | PSR04004564.hg.1 | EXOC1 |
| TC04000324.hg.1 | 2.47 | JUC04002216.hg.1 | EXOC1 |
| TC04000324.hg.1 | -2.38 | JUC04002217.hg.1 | EXOC1 |
| TC04000324.hg.1 | -3.61 | JUC04002215.hg.1 | EXOC1 |
| TC05001621.hg.1 | 2.81 | PSR05022126.hg.1 | RIOK2 |
| TC05001621.hg.1 | 2.18 | JUC05011418.hg.1 | RIOK2 |
| TC05001700.hg.1 | 2.81 | JUC05011925.hg.1 | SEMA6A |
| TC05001700.hg.1 | 2.67 | JUC05011914.hg.1 | SEMA6A |
| TC05001700.hg.1 | 2.15 | JUC05011911.hg.1 | SEMA6A |
| TC05001700.hg.1 | 2.1 | JUC05011901.hg.1 | SEMA6A |
| TC05001700.hg.1 | -2.07 | JUC05011908.hg.1 | SEMA6A |

| | | | |
|-----------------|-------|------------------|---------|
| TC05001700.hg.1 | -2.13 | PSR05023060.hg.1 | SEMA6A |
| TC05001995.hg.1 | 2.81 | PSR05027744.hg.1 | EBF1 |
| TC05001995.hg.1 | -2.26 | PSR05027724.hg.1 | EBF1 |
| TC05001995.hg.1 | -3.11 | JUC05014124.hg.1 | EBF1 |
| TC05001995.hg.1 | -3.28 | JUC05014152.hg.1 | EBF1 |
| TC06001855.hg.1 | 2.81 | JUC06010909.hg.1 | COL9A1 |
| TC06001855.hg.1 | 2.78 | JUC06010882.hg.1 | COL9A1 |
| TC06001855.hg.1 | 2.71 | JUC06010915.hg.1 | COL9A1 |
| TC06001855.hg.1 | 2.48 | JUC06010890.hg.1 | COL9A1 |
| TC06001855.hg.1 | 2.23 | PSR06022520.hg.1 | COL9A1 |
| TC08000918.hg.1 | 2.81 | PSR08011982.hg.1 | ZNF705G |
| TC08000918.hg.1 | -2.13 | PSR08011976.hg.1 | ZNF705G |
| TC08000918.hg.1 | -4.05 | JUC08006233.hg.1 | ZNF705G |
| TC09001036.hg.1 | 2.81 | JUC09007378.hg.1 | FAM219A |
| TC09001036.hg.1 | 2.52 | JUC09007374.hg.1 | FAM219A |
| TC09001036.hg.1 | 2.29 | JUC09007377.hg.1 | FAM219A |
| TC09001036.hg.1 | 2.03 | PSR09013580.hg.1 | FAM219A |
| TC0X000379.hg.1 | 2.81 | PSR0X004929.hg.1 | DLG3 |
| TC0X000379.hg.1 | 2.62 | JUC0X002429.hg.1 | DLG3 |
| TC0X000379.hg.1 | 2.55 | JUC0X002425.hg.1 | DLG3 |
| TC0X000379.hg.1 | 2.25 | JUC0X002413.hg.1 | DLG3 |
| TC0X000379.hg.1 | 2.16 | PSR0X004933.hg.1 | DLG3 |
| TC0X000379.hg.1 | 2.1 | PSR0X004923.hg.1 | DLG3 |
| TC0X000379.hg.1 | 2.05 | PSR0X004930.hg.1 | DLG3 |
| TC0X000379.hg.1 | -2.12 | JUC0X002432.hg.1 | DLG3 |
| TC0X000379.hg.1 | -3.38 | JUC0X002436.hg.1 | DLG3 |
| TC11003468.hg.1 | 2.81 | JUC11019285.hg.1 | TMEM25 |
| TC11003468.hg.1 | 2.47 | PSR11013427.hg.1 | TMEM25 |
| TC11003468.hg.1 | 2.38 | PSR11013423.hg.1 | TMEM25 |
| TC11003468.hg.1 | 2.23 | PSR11013415.hg.1 | TMEM25 |
| TC11003468.hg.1 | 2.15 | PSR11013433.hg.1 | TMEM25 |
| TC11003468.hg.1 | 2.13 | PSR11013424.hg.1 | TMEM25 |
| TC11003468.hg.1 | 2.03 | PSR11013425.hg.1 | TMEM25 |
| TC11003468.hg.1 | -2.28 | PSR11013449.hg.1 | TMEM25 |
| TC11003468.hg.1 | -3.19 | JUC11019295.hg.1 | TMEM25 |
| TC12001536.hg.1 | 2.81 | PSR12020179.hg.1 | KRT4 |
| TC12001536.hg.1 | 2.19 | JUC12011217.hg.1 | KRT4 |
| TC13000825.hg.1 | 2.81 | JUC13005445.hg.1 | DOCK9 |
| TC13000825.hg.1 | -2.16 | PSR13009236.hg.1 | DOCK9 |
| TC13000825.hg.1 | -2.27 | JUC13005433.hg.1 | DOCK9 |
| TC13000825.hg.1 | -2.52 | JUC13005424.hg.1 | DOCK9 |
| TC13000825.hg.1 | -2.73 | JUC13005461.hg.1 | DOCK9 |
| TC13000825.hg.1 | -2.78 | JUC13005409.hg.1 | DOCK9 |
| TC13000854.hg.1 | 2.81 | JUC13005643.hg.1 | TEX30 |
| TC13000854.hg.1 | 2.72 | PSR13009578.hg.1 | TEX30 |
| TC13000854.hg.1 | 2.51 | JUC13005638.hg.1 | TEX30 |
| TC13000854.hg.1 | 2.03 | JUC13005644.hg.1 | TEX30 |
| TC15001583.hg.1 | 2.81 | JUC15008267.hg.1 | LCTL |
| TC15001583.hg.1 | 2.27 | JUC15008270.hg.1 | LCTL |
| TC15001583.hg.1 | 2.26 | JUC15008271.hg.1 | LCTL |
| TC15001583.hg.1 | 2.03 | PSR15015234.hg.1 | LCTL |
| TC15001583.hg.1 | -2.04 | JUC15008275.hg.1 | LCTL |
| TC15001583.hg.1 | -2.99 | JUC15008268.hg.1 | LCTL |
| TC16002046.hg.1 | 2.81 | JUC16013340.hg.1 | ITFG3 |
| TC16002046.hg.1 | 2.41 | JUC16013334.hg.1 | ITFG3 |
| TC16002046.hg.1 | 2.3 | PSR16000166.hg.1 | ITFG3 |
| TC16002046.hg.1 | 2.1 | JUC16013344.hg.1 | ITFG3 |
| TC16002046.hg.1 | 2.09 | JUC16013351.hg.1 | ITFG3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC16002046.hg.1 | 2.04 | JUC16013346.hg.1 | ITFG3 |
| TC16002046.hg.1 | 2.03 | PSR16000128.hg.1 | ITFG3 |
| TC16002046.hg.1 | -2.17 | JUC16013361.hg.1 | ITFG3 |
| TC01001791.hg.1 | 2.8 | PSR01027997.hg.1 | CENPF |
| TC01001791.hg.1 | 2.35 | JUC01015096.hg.1 | CENPF |
| TC01001791.hg.1 | 2.16 | PSR01028008.hg.1 | CENPF |
| TC01001791.hg.1 | 2.09 | PSR01028016.hg.1 | CENPF |
| TC01001791.hg.1 | -2.08 | JUC01015081.hg.1 | CENPF |
| TC01001791.hg.1 | -2.15 | PSR01028021.hg.1 | CENPF |
| TC02000986.hg.1 | 2.8 | PSR02014452.hg.1 | CSRNP3 |
| TC02000986.hg.1 | 2.07 | JUC02007727.hg.1 | CSRNP3 |
| TC02000986.hg.1 | -2 | JUC02007733.hg.1 | CSRNP3 |
| TC02002408.hg.1 | 2.8 | PSR02037939.hg.1 | ORC4 |
| TC02002408.hg.1 | 2.62 | JUC02019710.hg.1 | ORC4 |
| TC02002408.hg.1 | 2.1 | PSR02037912.hg.1 | ORC4 |
| TC02002408.hg.1 | -2 | JUC02019700.hg.1 | ORC4 |
| TC02002408.hg.1 | -2.1 | JUC02019695.hg.1 | ORC4 |
| TC02002408.hg.1 | -2.21 | PSR02037903.hg.1 | ORC4 |
| TC02002408.hg.1 | -2.49 | JUC02019717.hg.1 | ORC4 |
| TC03003385.hg.1 | 2.8 | PSR03025121.hg.1 | NICN1 |
| TC03003385.hg.1 | -2.05 | JUC03024253.hg.1 | NICN1 |
| TC03003385.hg.1 | -2.09 | PSR03025114.hg.1 | NICN1 |
| TC03003385.hg.1 | -2.09 | JUC03024254.hg.1 | NICN1 |
| TC03003385.hg.1 | -2.12 | PSR03025110.hg.1 | NICN1 |
| TC03003385.hg.1 | -2.19 | PSR03025111.hg.1 | NICN1 |
| TC03003385.hg.1 | -2.24 | PSR03025113.hg.1 | NICN1 |
| TC05001365.hg.1 | 2.8 | JUC05009801.hg.1 | SLC38A9 |
| TC05001365.hg.1 | -2.08 | PSR05019070.hg.1 | SLC38A9 |
| TC05001365.hg.1 | -2.22 | JUC05009794.hg.1 | SLC38A9 |
| TC05001365.hg.1 | -2.76 | PSR05019050.hg.1 | SLC38A9 |
| TC05001365.hg.1 | -2.99 | JUC05009827.hg.1 | SLC38A9 |
| TC07000131.hg.1 | 2.8 | PSR07001994.hg.1 | SP4 |
| TC07000131.hg.1 | 2.72 | JUC07000939.hg.1 | SP4 |
| TC07000131.hg.1 | 2.46 | PSR07001991.hg.1 | SP4 |
| TC07000131.hg.1 | 2.41 | JUC07000932.hg.1 | SP4 |
| TC07000131.hg.1 | 2.41 | JUC07000938.hg.1 | SP4 |
| TC07000131.hg.1 | 2.01 | PSR07002006.hg.1 | SP4 |
| TC07000255.hg.1 | 2.8 | JUC07001882.hg.1 | C7orf10 |
| TC07000255.hg.1 | 2.23 | JUC07001884.hg.1 | C7orf10 |
| TC07000255.hg.1 | 2.02 | PSR07003924.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.3 | PSR07003925.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.44 | JUC07001885.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.45 | PSR07003923.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.5 | PSR07003918.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.63 | PSR07003922.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.89 | JUC07001887.hg.1 | C7orf10 |
| TC07000255.hg.1 | -2.95 | JUC07001868.hg.1 | C7orf10 |
| TC07000255.hg.1 | -3.27 | JUC07001880.hg.1 | C7orf10 |
| TC07000255.hg.1 | -3.37 | PSR07003913.hg.1 | C7orf10 |
| TC07000255.hg.1 | -3.39 | PSR07003905.hg.1 | C7orf10 |
| TC07000255.hg.1 | -3.86 | PSR07003904.hg.1 | C7orf10 |
| TC07000255.hg.1 | -4.05 | JUC07001867.hg.1 | C7orf10 |
| TC07000255.hg.1 | -5.4 | JUC07001874.hg.1 | C7orf10 |
| TC07000255.hg.1 | -5.42 | JUC07001871.hg.1 | C7orf10 |
| TC07000255.hg.1 | -8.86 | JUC07001866.hg.1 | C7orf10 |
| TC07000715.hg.1 | 2.8 | JUC07005280.hg.1 | MDFIC |
| TC07000715.hg.1 | -2.35 | PSR07011271.hg.1 | MDFIC |
| TC07000715.hg.1 | -3.67 | PSR07011273.hg.1 | MDFIC |

| | | | |
|-----------------|-------|------------------|------------|
| TC07001761.hg.1 | 2.8 | JUC07013543.hg.1 | DOCK4 |
| TC07001761.hg.1 | 2.1 | JUC07013559.hg.1 | DOCK4 |
| TC07001761.hg.1 | 2 | JUC07013544.hg.1 | DOCK4 |
| TC07001761.hg.1 | -2 | PSR07027550.hg.1 | DOCK4 |
| TC07001761.hg.1 | -2.05 | PSR07027583.hg.1 | DOCK4 |
| TC07001761.hg.1 | -2.46 | JUC07013561.hg.1 | DOCK4 |
| TC07001761.hg.1 | -2.47 | JUC07013525.hg.1 | DOCK4 |
| TC09001193.hg.1 | 2.8 | JUC09008188.hg.1 | APBA1, LOC |
| TC09001193.hg.1 | -2.28 | PSR09015260.hg.1 | APBA1, LOC |
| TC09001193.hg.1 | -4.51 | JUC09008191.hg.1 | APBA1, LOC |
| TC0Y000187.hg.1 | 2.8 | JUC0Y001194.hg.1 | |
| TC0Y000187.hg.1 | 2.4 | PSR0Y001876.hg.1 | |
| TC10001329.hg.1 | 2.8 | JUC10009816.hg.1 | JMJD1C |
| TC10001329.hg.1 | 2.07 | JUC10009823.hg.1 | JMJD1C |
| TC10001329.hg.1 | -2.04 | PSR10016828.hg.1 | JMJD1C |
| TC10001329.hg.1 | -2.04 | JUC10009804.hg.1 | JMJD1C |
| TC10001329.hg.1 | -2.11 | JUC10009827.hg.1 | JMJD1C |
| TC10001329.hg.1 | -3.02 | JUC10009813.hg.1 | JMJD1C |
| TC10001416.hg.1 | 2.8 | PSR10017940.hg.1 | AGAP5, BMS |
| TC10001416.hg.1 | 2.27 | JUC10010448.hg.1 | AGAP5, BMS |
| TC10001416.hg.1 | -2.03 | JUC10010459.hg.1 | AGAP5, BMS |
| TC13000681.hg.1 | 2.8 | JUC13004572.hg.1 | DHRS12 |
| TC13000681.hg.1 | 2.04 | PSR13007885.hg.1 | DHRS12 |
| TC16000484.hg.1 | 2.8 | JUC16003820.hg.1 | RSPRY1 |
| TC16000484.hg.1 | 2.21 | PSR16006748.hg.1 | RSPRY1 |
| TC16002098.hg.1 | 2.8 | JUC16014080.hg.1 | NPIPL3 |
| TC16002098.hg.1 | -2.81 | JUC16014073.hg.1 | NPIPL3 |
| TC16002098.hg.1 | -3.2 | PSR16013577.hg.1 | NPIPL3 |
| TC17000026.hg.1 | 2.8 | JUC17000163.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | 2.32 | PSR17000320.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -2.04 | JUC17000166.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -2.09 | JUC17000157.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -2.41 | JUC17000159.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -2.76 | JUC17000164.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -3.13 | JUC17000158.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -3.16 | JUC17000170.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -3.33 | PSR17000287.hg.1 | RAP1GAP2 |
| TC17000026.hg.1 | -4.95 | JUC17000173.hg.1 | RAP1GAP2 |
| TC17000085.hg.1 | 2.8 | PSR17001080.hg.1 | ACADVL |
| TC17000085.hg.1 | 2.36 | JUC17000669.hg.1 | ACADVL |
| TC17000667.hg.1 | 2.8 | PSR17008418.hg.1 | ACSF2 |
| TC17000667.hg.1 | 2.39 | JUC17004642.hg.1 | ACSF2 |
| TC17000667.hg.1 | 2.37 | PSR17008413.hg.1 | ACSF2 |
| TC17000667.hg.1 | 2.31 | PSR17008449.hg.1 | ACSF2 |
| TC17000667.hg.1 | 2.21 | PSR17008425.hg.1 | ACSF2 |
| TC17000667.hg.1 | 2.07 | PSR17008429.hg.1 | ACSF2 |
| TC17000667.hg.1 | 2.06 | PSR17008428.hg.1 | ACSF2 |
| TC19000627.hg.1 | 2.8 | PSR19008695.hg.1 | BCL3 |
| TC19000627.hg.1 | 2.79 | PSR19008697.hg.1 | BCL3 |
| TC19000627.hg.1 | 2.73 | PSR19008700.hg.1 | BCL3 |
| TC19000627.hg.1 | 2.64 | PSR19008716.hg.1 | BCL3 |
| TC19000627.hg.1 | 2.54 | PSR19008717.hg.1 | BCL3 |
| TC19000627.hg.1 | 2.27 | PSR19008719.hg.1 | BCL3 |
| TC19000627.hg.1 | 2.16 | JUC19005200.hg.1 | BCL3 |
| TC06004098.hg.1 | 2.8 | JUC06021307.hg.1 | PHACTR2 |
| TC06004098.hg.1 | 2 | PSR06012348.hg.1 | PHACTR2 |
| TC01002497.hg.1 | 2.79 | JUC01020816.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.63 | JUC01020810.hg.1 | KIAA0319L |

| | | | |
|-----------------|-------|------------------|------------|
| TC01002497.hg.1 | 2.45 | PSR01038771.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.43 | PSR01038758.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.38 | JUC01020804.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.35 | PSR01038768.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.34 | PSR01038711.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.22 | PSR01038756.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.14 | PSR01038757.hg.1 | KIAA0319L |
| TC01002497.hg.1 | 2.08 | PSR01038754.hg.1 | KIAA0319L |
| TC01002497.hg.1 | -2.04 | JUC01020812.hg.1 | KIAA0319L |
| TC01002497.hg.1 | -2.48 | JUC01020813.hg.1 | KIAA0319L |
| TC01002497.hg.1 | -2.87 | JUC01020800.hg.1 | KIAA0319L |
| TC01006302.hg.1 | 2.79 | PSR01048354.hg.1 | LOC1005060 |
| TC01006302.hg.1 | 2 | JUC01039575.hg.1 | LOC1005060 |
| TC03002091.hg.1 | 2.79 | PSR03037117.hg.1 | RPL39L |
| TC03002091.hg.1 | 2.04 | JUC03018357.hg.1 | RPL39L |
| TC04001219.hg.1 | 2.79 | JUC04008889.hg.1 | AASDH |
| TC04001219.hg.1 | 2.31 | PSR04016656.hg.1 | AASDH |
| TC04001219.hg.1 | 2 | JUC04008875.hg.1 | AASDH |
| TC05002010.hg.1 | 2.79 | PSR05027941.hg.1 | SLU7 |
| TC05002010.hg.1 | -3.5 | JUC05014248.hg.1 | SLU7 |
| TC08000200.hg.1 | 2.79 | PSR08002832.hg.1 | BNIP3L |
| TC08000200.hg.1 | 2.63 | PSR08002833.hg.1 | BNIP3L |
| TC08000200.hg.1 | 2.07 | JUC08001386.hg.1 | BNIP3L |
| TC08000200.hg.1 | 2.05 | JUC08001379.hg.1 | BNIP3L |
| TC08000200.hg.1 | -2 | PSR08002852.hg.1 | BNIP3L |
| TC08000200.hg.1 | -2.29 | PSR08002848.hg.1 | BNIP3L |
| TC08000277.hg.1 | 2.79 | JUC08001889.hg.1 | ERLIN2 |
| TC08000277.hg.1 | 2.43 | JUC08001891.hg.1 | ERLIN2 |
| TC08000277.hg.1 | 2.35 | JUC08001896.hg.1 | ERLIN2 |
| TC08000277.hg.1 | 2.14 | JUC08001898.hg.1 | ERLIN2 |
| TC08000277.hg.1 | 2.06 | PSR08003833.hg.1 | ERLIN2 |
| TC08000277.hg.1 | 2 | PSR08003809.hg.1 | ERLIN2 |
| TC08000602.hg.1 | 2.79 | JUC08004217.hg.1 | POP1 |
| TC08000602.hg.1 | 2.07 | PSR08008351.hg.1 | POP1 |
| TC12001389.hg.1 | 2.79 | JUC12010014.hg.1 | CPNE8 |
| TC12001389.hg.1 | 2.7 | JUC12010015.hg.1 | CPNE8 |
| TC12001389.hg.1 | 2.15 | JUC12010011.hg.1 | CPNE8 |
| TC12001389.hg.1 | -2.08 | PSR12017988.hg.1 | CPNE8 |
| TC12001389.hg.1 | -2.36 | JUC12010013.hg.1 | CPNE8 |
| TC12001941.hg.1 | 2.79 | PSR12025277.hg.1 | SSH1 |
| TC12001941.hg.1 | -2.32 | JUC12014108.hg.1 | SSH1 |
| TC12001941.hg.1 | -2.77 | PSR12025264.hg.1 | SSH1 |
| TC17001753.hg.1 | 2.79 | JUC17013037.hg.1 | TUBD1 |
| TC17001753.hg.1 | 2.45 | PSR17023404.hg.1 | TUBD1 |
| TC17001753.hg.1 | 2.07 | JUC17013051.hg.1 | TUBD1 |
| TC17001753.hg.1 | -4.32 | PSR17023409.hg.1 | TUBD1 |
| TC17002844.hg.1 | 2.79 | JUC17018185.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.53 | JUC17018193.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.5 | PSR17008640.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.43 | PSR17008606.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.35 | JUC17018191.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.34 | PSR17008615.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.24 | PSR17008652.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.22 | PSR17008619.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.17 | PSR17008648.hg.1 | SPATA20 |
| TC17002844.hg.1 | 2.16 | JUC17018186.hg.1 | SPATA20 |
| TC17002844.hg.1 | -2.36 | PSR17008643.hg.1 | SPATA20 |
| TC17002844.hg.1 | -3.04 | JUC17018213.hg.1 | SPATA20 |

| | | | |
|------------------|-------|-------------------|--------------|
| TC6_apd_hap1000 | 2.79 | PSR6_apd_hap1001 | AGPAT1 |
| TC6_apd_hap1000 | 2.59 | JUC6_apd_hap1000 | AGPAT1 |
| TC6_apd_hap1000 | 2.41 | PSR6_apd_hap1001 | AGPAT1 |
| TC6_apd_hap1000 | -3.33 | JUC6_apd_hap1000 | AGPAT1 |
| TC6_cox_hap2000 | 2.79 | JUC6_cox_hap2002 | TNXB, TNXA |
| TC6_cox_hap2000 | -2.07 | JUC6_cox_hap2002 | TNXB, TNXA |
| TC6_cox_hap2000 | -2.37 | PSR6_cox_hap2003 | TNXB, TNXA |
| TC6_dbb_hap3000 | 2.79 | JUC6_dbb_hap3002 | TNXB |
| TC6_dbb_hap3000 | -2.07 | JUC6_dbb_hap3002 | TNXB |
| TC6_dbb_hap3000 | -2.25 | PSR6_dbb_hap3003 | TNXB |
| TC6_dbb_hap3000 | -2.37 | PSR6_dbb_hap3003 | TNXB |
| TC6_ssto_hap7000 | 2.79 | PSR6_ssto_hap7003 | AGPAT1 |
| TC6_ssto_hap7000 | 2.59 | JUC6_ssto_hap7001 | AGPAT1 |
| TC6_ssto_hap7000 | 2.41 | PSR6_ssto_hap7003 | AGPAT1 |
| TC6_ssto_hap7000 | -3.33 | JUC6_ssto_hap7001 | AGPAT1 |
| TC01000743.hg.1 | 2.78 | JUC01006242.hg.1 | |
| TC01000743.hg.1 | 2.14 | PSR01011950.hg.1 | |
| TC02002539.hg.1 | 2.78 | PSR02040273.hg.1 | GPR155 |
| TC02002539.hg.1 | -2.05 | JUC02021249.hg.1 | GPR155 |
| TC02002539.hg.1 | -2.13 | PSR02040294.hg.1 | GPR155 |
| TC02002539.hg.1 | -2.54 | JUC02021231.hg.1 | GPR155 |
| TC03000534.hg.1 | 2.78 | PSR03009870.hg.1 | ALCAM |
| TC03000534.hg.1 | 2.02 | JUC03004902.hg.1 | ALCAM |
| TC03000751.hg.1 | 2.78 | PSR03013677.hg.1 | LOC1005072 |
| TC03000751.hg.1 | -2.73 | JUC03006907.hg.1 | LOC1005072 |
| TC03001202.hg.1 | 2.78 | JUC03010308.hg.1 | MRPS25 |
| TC03001202.hg.1 | 2.56 | JUC03010301.hg.1 | MRPS25 |
| TC03001202.hg.1 | 2.02 | PSR03020594.hg.1 | MRPS25 |
| TC03001202.hg.1 | -2.2 | PSR03020586.hg.1 | MRPS25 |
| TC03001375.hg.1 | 2.78 | JUC03011873.hg.1 | NME6 |
| TC03001375.hg.1 | 2.4 | JUC03011866.hg.1 | NME6 |
| TC03001375.hg.1 | 2.16 | PSR03023767.hg.1 | NME6 |
| TC03001375.hg.1 | 2.13 | JUC03011871.hg.1 | NME6 |
| TC03001457.hg.1 | 2.78 | JUC03012866.hg.1 | PBRM1 |
| TC03001457.hg.1 | 2.75 | JUC03012903.hg.1 | PBRM1 |
| TC03001457.hg.1 | 2.51 | JUC03012872.hg.1 | PBRM1 |
| TC03001457.hg.1 | 2.45 | JUC03012906.hg.1 | PBRM1 |
| TC03001457.hg.1 | 2.1 | PSR03026372.hg.1 | PBRM1 |
| TC03001457.hg.1 | -2.14 | JUC03012889.hg.1 | PBRM1 |
| TC06000870.hg.1 | 2.78 | JUC06004788.hg.1 | ARMC2 |
| TC06000870.hg.1 | 2.13 | JUC06004783.hg.1 | ARMC2 |
| TC06000870.hg.1 | -2.09 | JUC06004789.hg.1 | ARMC2 |
| TC06000870.hg.1 | -2.15 | PSR06010180.hg.1 | ARMC2 |
| TC10001505.hg.1 | 2.78 | JUC10011047.hg.1 | LIPA, LOC100 |
| TC10001505.hg.1 | 2.78 | JUC10011053.hg.1 | LIPA, LOC100 |
| TC10001505.hg.1 | -2.03 | JUC10011049.hg.1 | LIPA, LOC100 |
| TC10001505.hg.1 | -2.05 | PSR10019010.hg.1 | LIPA, LOC100 |
| TC10001505.hg.1 | -2.13 | PSR10018970.hg.1 | LIPA, LOC100 |
| TC10001505.hg.1 | -2.35 | JUC10011046.hg.1 | LIPA, LOC100 |
| TC10001505.hg.1 | -3.05 | JUC10011071.hg.1 | LIPA, LOC100 |
| TC11003505.hg.1 | 2.78 | PSR11026921.hg.1 | CASP1 |
| TC11003505.hg.1 | 2.44 | JUC11019791.hg.1 | CASP1 |
| TC11003505.hg.1 | 2.22 | PSR11026920.hg.1 | CASP1 |
| TC11003505.hg.1 | -2.66 | JUC11019792.hg.1 | CASP1 |
| TC12001152.hg.1 | 2.78 | PSR12015286.hg.1 | SPSB2 |
| TC12001152.hg.1 | -2 | JUC12008416.hg.1 | SPSB2 |
| TC15000150.hg.1 | 2.78 | JUC15000330.hg.1 | WHAMMP2 |
| TC15000150.hg.1 | -2.09 | PSR15000927.hg.1 | WHAMMP2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC16000493.hg.1 | 2.78 | PSR16006866.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.77 | PSR16006860.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.73 | PSR16006862.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.53 | JUC16003900.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.5 | JUC16003897.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.36 | JUC16003905.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.35 | PSR16006861.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.22 | JUC16003893.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.06 | PSR16006865.hg.1 | GPR56 |
| TC16000493.hg.1 | 2.02 | PSR16006872.hg.1 | GPR56 |
| TC16000493.hg.1 | -2.09 | PSR16006875.hg.1 | GPR56 |
| TC16000493.hg.1 | -3.34 | JUC16003896.hg.1 | GPR56 |
| TC17001068.hg.1 | 2.78 | JUC17008168.hg.1 | SLC13A5 |
| TC17001068.hg.1 | 2.41 | PSR17014284.hg.1 | SLC13A5 |
| TC17001068.hg.1 | -2.07 | PSR17014293.hg.1 | SLC13A5 |
| TC17001068.hg.1 | -2.12 | PSR17014294.hg.1 | SLC13A5 |
| TC17001068.hg.1 | -2.15 | PSR17014289.hg.1 | SLC13A5 |
| TC17001068.hg.1 | -2.38 | JUC17008167.hg.1 | SLC13A5 |
| TC19000488.hg.1 | 2.78 | JUC19003825.hg.1 | APLP1 |
| TC19000488.hg.1 | 2.52 | PSR19006490.hg.1 | APLP1 |
| TC19000488.hg.1 | 2.35 | PSR19006492.hg.1 | APLP1 |
| TC19000488.hg.1 | 2.31 | PSR19006491.hg.1 | APLP1 |
| TC19000488.hg.1 | 2.18 | JUC19003840.hg.1 | APLP1 |
| TC19000488.hg.1 | 2.03 | JUC19003834.hg.1 | APLP1 |
| TC19000488.hg.1 | -2.1 | PSR19006508.hg.1 | APLP1 |
| TC19000488.hg.1 | -2.52 | PSR19006512.hg.1 | APLP1 |
| TC22001425.hg.1 | 2.78 | PSR22005780.hg.1 | APOBEC3B |
| TC22001425.hg.1 | 2.37 | JUC22008590.hg.1 | APOBEC3B |
| TC22001425.hg.1 | 2.22 | JUC22008588.hg.1 | APOBEC3B |
| TC22001425.hg.1 | 2.04 | PSR22005773.hg.1 | APOBEC3B |
| TC22001425.hg.1 | -2.5 | JUC22008592.hg.1 | APOBEC3B |
| TC22001425.hg.1 | -4.14 | JUC22008595.hg.1 | APOBEC3B |
| TC22001425.hg.1 | -4.35 | JUC22008591.hg.1 | APOBEC3B |
| TC22001425.hg.1 | -6.13 | JUC22008584.hg.1 | APOBEC3B |
| TC01001426.hg.1 | 2.77 | PSR01022306.hg.1 | HSD17B7 |
| TC01001426.hg.1 | 2.2 | PSR01022299.hg.1 | HSD17B7 |
| TC01001426.hg.1 | 2.11 | JUC01011756.hg.1 | HSD17B7 |
| TC01001426.hg.1 | 2.09 | PSR01022282.hg.1 | HSD17B7 |
| TC01002528.hg.1 | 2.77 | PSR01039354.hg.1 | INPP5B |
| TC01002528.hg.1 | -2.81 | JUC01021143.hg.1 | INPP5B |
| TC01002574.hg.1 | 2.77 | JUC01021494.hg.1 | LEPRE1 |
| TC01002574.hg.1 | 2.25 | PSR01039984.hg.1 | LEPRE1 |
| TC01002574.hg.1 | 2.16 | JUC01021479.hg.1 | LEPRE1 |
| TC01002574.hg.1 | 2.09 | PSR01040015.hg.1 | LEPRE1 |
| TC01002604.hg.1 | 2.77 | PSR01040483.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.34 | JUC01021738.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.29 | PSR01040480.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.25 | PSR01040487.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.24 | PSR01040478.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.09 | JUC01021739.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.03 | PSR01040477.hg.1 | HECTD3 |
| TC01002604.hg.1 | 2.02 | PSR01040492.hg.1 | HECTD3 |
| TC02000157.hg.1 | 2.77 | JUC02000982.hg.1 | MAPRE3 |
| TC02000157.hg.1 | 2.15 | PSR02001911.hg.1 | MAPRE3 |
| TC02000157.hg.1 | 2 | JUC02000990.hg.1 | MAPRE3 |
| TC02002886.hg.1 | 2.77 | JUC02024309.hg.1 | HJURP |
| TC02002886.hg.1 | 2.69 | JUC02024307.hg.1 | HJURP |
| TC02002886.hg.1 | 2.63 | PSR02046445.hg.1 | HJURP |

| | | | |
|-----------------|-------|------------------|------------|
| TC02002886.hg.1 | 2.5 | PSR02046459.hg.1 | HJURP |
| TC02002886.hg.1 | 2.03 | JUC02024297.hg.1 | HJURP |
| TC02002886.hg.1 | -2.09 | PSR02046448.hg.1 | HJURP |
| TC02002886.hg.1 | -2.18 | JUC02024310.hg.1 | HJURP |
| TC02002886.hg.1 | -2.21 | PSR02046458.hg.1 | HJURP |
| TC05003439.hg.1 | 2.77 | PSR05002644.hg.1 | ITGA1 |
| TC05003439.hg.1 | 2.64 | PSR05002671.hg.1 | ITGA1 |
| TC05003439.hg.1 | -2.45 | JUC05019800.hg.1 | ITGA1 |
| TC05003439.hg.1 | -4.53 | JUC05019809.hg.1 | ITGA1 |
| TC17000189.hg.1 | 2.77 | JUC17001478.hg.1 | SNORD49A, |
| TC17000189.hg.1 | 2.64 | JUC17001494.hg.1 | SNORD49A, |
| TC17000189.hg.1 | -2.06 | PSR17002584.hg.1 | SNORD49A, |
| TC17000189.hg.1 | -2.1 | JUC17001484.hg.1 | SNORD49A, |
| TC17000189.hg.1 | -2.24 | JUC17001464.hg.1 | SNORD49A, |
| TC17000189.hg.1 | -2.93 | PSR17002547.hg.1 | SNORD49A, |
| TC17000583.hg.1 | 2.77 | JUC17004068.hg.1 | LOC1001339 |
| TC17000583.hg.1 | 2.16 | PSR17007173.hg.1 | LOC1001339 |
| TC17001523.hg.1 | 2.77 | JUC17011344.hg.1 | DHX58 |
| TC17001523.hg.1 | 2.37 | PSR17020288.hg.1 | DHX58 |
| TC17001523.hg.1 | 2.12 | JUC17011339.hg.1 | DHX58 |
| TC17001523.hg.1 | 2.09 | PSR17020307.hg.1 | DHX58 |
| TC01000001.hg.1 | 2.76 | JUC01000001.hg.1 | DDX11L1 |
| TC01000001.hg.1 | 2.34 | PSR01000002.hg.1 | DDX11L1 |
| TC01000001.hg.1 | 2.24 | PSR01000004.hg.1 | DDX11L1 |
| TC01003343.hg.1 | 2.76 | JUC01027356.hg.1 | IQGAP3 |
| TC01003343.hg.1 | 2.35 | PSR01052240.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -2.05 | PSR01052235.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -2.08 | JUC01027330.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -2.56 | PSR01052195.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -2.64 | JUC01027331.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -2.91 | JUC01027324.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -3.24 | JUC01027354.hg.1 | IQGAP3 |
| TC01003343.hg.1 | -8.45 | JUC01027337.hg.1 | IQGAP3 |
| TC02000967.hg.1 | 2.76 | PSR02014127.hg.1 | 7-Mar |
| TC02000967.hg.1 | -2.32 | JUC02007596.hg.1 | 7-Mar |
| TC02001755.hg.1 | 2.76 | JUC02014798.hg.1 | HNRPLL |
| TC02001755.hg.1 | 2.21 | JUC02014784.hg.1 | HNRPLL |
| TC02001755.hg.1 | 2.18 | PSR02028264.hg.1 | HNRPLL |
| TC03001819.hg.1 | 2.76 | PSR03032911.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.47 | PSR03032926.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.45 | PSR03032924.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.2 | PSR03032902.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.17 | PSR03032925.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.11 | JUC03016330.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.08 | PSR03032921.hg.1 | DZIP1L |
| TC03001819.hg.1 | 2.04 | JUC03016320.hg.1 | DZIP1L |
| TC04000643.hg.1 | 2.76 | PSR04009278.hg.1 | HSPA4L |
| TC04000643.hg.1 | 2.68 | PSR04009275.hg.1 | HSPA4L |
| TC04000643.hg.1 | 2.64 | PSR04009303.hg.1 | HSPA4L |
| TC04000643.hg.1 | 2.24 | PSR04009274.hg.1 | HSPA4L |
| TC04000643.hg.1 | 2.19 | PSR04009277.hg.1 | HSPA4L |
| TC04000643.hg.1 | -2.08 | JUC04004959.hg.1 | HSPA4L |
| TC04000643.hg.1 | -2.15 | JUC04004969.hg.1 | HSPA4L |
| TC04000643.hg.1 | -2.22 | JUC04004963.hg.1 | HSPA4L |
| TC04001742.hg.1 | 2.76 | JUC04012761.hg.1 | SCRG1 |
| TC04001742.hg.1 | 2.54 | PSR04024069.hg.1 | SCRG1 |
| TC04002948.hg.1 | 2.76 | PSR04022051.hg.1 | MGARP |
| TC04002948.hg.1 | 2.08 | PSR04022050.hg.1 | MGARP |

| | | | |
|-----------------|-------|------------------|-------------|
| TC04002948.hg.1 | -2.6 | JUC04017373.hg.1 | MGARP |
| TC04002948.hg.1 | -4.93 | JUC04017374.hg.1 | MGARP |
| TC05000752.hg.1 | 2.76 | JUC05005640.hg.1 | PCDHB9 |
| TC05000752.hg.1 | 2.42 | PSR05010798.hg.1 | PCDHB9 |
| TC05000752.hg.1 | 2.2 | PSR05010801.hg.1 | PCDHB9 |
| TC05001259.hg.1 | 2.76 | JUC05009002.hg.1 | RAD1 |
| TC05001259.hg.1 | 2.12 | PSR05017602.hg.1 | RAD1 |
| TC05001693.hg.1 | 2.76 | JUC05011881.hg.1 | CDO1 |
| TC05001693.hg.1 | 2.55 | JUC05011883.hg.1 | CDO1 |
| TC05001693.hg.1 | 2.09 | PSR05022965.hg.1 | CDO1 |
| TC05001693.hg.1 | -2.08 | PSR05022966.hg.1 | CDO1 |
| TC09000467.hg.1 | 2.76 | JUC09002764.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | 2.14 | JUC09002739.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2 | PSR09005000.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.02 | PSR09005043.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.04 | JUC09002740.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.09 | JUC09002763.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.12 | PSR09005001.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.21 | JUC09002757.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.23 | JUC09002749.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.29 | PSR09005027.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.4 | JUC09002752.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.46 | PSR09005013.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.65 | JUC09002759.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -2.93 | JUC09002732.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -3.04 | PSR09005005.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -3.45 | JUC09002756.hg.1 | MIR23B, MIR |
| TC09000467.hg.1 | -3.71 | PSR09005006.hg.1 | MIR23B, MIR |
| TC09000855.hg.1 | 2.76 | JUC09006124.hg.1 | CACNA1B |
| TC09000855.hg.1 | -2.05 | PSR09011372.hg.1 | CACNA1B |
| TC09000855.hg.1 | -2.15 | JUC09006117.hg.1 | CACNA1B |
| TC09000855.hg.1 | -2.31 | JUC09006122.hg.1 | CACNA1B |
| TC09000855.hg.1 | -2.8 | JUC09006114.hg.1 | CACNA1B |
| TC0Y000144.hg.1 | 2.76 | JUC0Y000922.hg.1 | |
| TC0Y000144.hg.1 | -2.26 | JUC0Y000924.hg.1 | |
| TC0Y000144.hg.1 | -2.42 | PSR0Y001522.hg.1 | |
| TC0Y000144.hg.1 | -2.42 | PSR0Y001525.hg.1 | |
| TC0Y000144.hg.1 | -2.45 | JUC0Y000919.hg.1 | |
| TC0Y000144.hg.1 | -2.54 | JUC0Y000915.hg.1 | |
| TC0Y000144.hg.1 | -2.95 | PSR0Y001517.hg.1 | |
| TC11001026.hg.1 | 2.76 | PSR11012839.hg.1 | ZBTB16 |
| TC11001026.hg.1 | 2.36 | PSR11012836.hg.1 | ZBTB16 |
| TC11001026.hg.1 | -2.54 | JUC11006904.hg.1 | ZBTB16 |
| TC11001026.hg.1 | -2.88 | JUC11006906.hg.1 | ZBTB16 |
| TC11001026.hg.1 | -3.56 | PSR11012827.hg.1 | ZBTB16 |
| TC11001026.hg.1 | -3.65 | JUC11006907.hg.1 | ZBTB16 |
| TC11001026.hg.1 | -3.91 | PSR11012830.hg.1 | ZBTB16 |
| TC11001419.hg.1 | 2.76 | JUC11009586.hg.1 | ZBED5 |
| TC11001419.hg.1 | -2.1 | JUC11009578.hg.1 | ZBED5 |
| TC11001419.hg.1 | -2.32 | JUC11009583.hg.1 | ZBED5 |
| TC11001419.hg.1 | -2.37 | PSR11017881.hg.1 | ZBED5 |
| TC11001419.hg.1 | -3.24 | PSR11017880.hg.1 | ZBED5 |
| TC12002013.hg.1 | 2.76 | JUC12014752.hg.1 | FBXO21 |
| TC12002013.hg.1 | 2.24 | PSR12026387.hg.1 | FBXO21 |
| TC12002013.hg.1 | -2.58 | JUC12014749.hg.1 | FBXO21 |
| TC21000176.hg.1 | 2.76 | PSR21001691.hg.1 | SH3BGR |
| TC21000176.hg.1 | -2.33 | PSR21001695.hg.1 | SH3BGR |
| TC21000176.hg.1 | -2.81 | JUC21000869.hg.1 | SH3BGR |

| | | | |
|-----------------|--------|------------------|----------------|
| TC22000256.hg.1 | 2.76 | JUC22001705.hg.1 | HMGXB4 |
| TC22000256.hg.1 | 2.48 | PSR22004718.hg.1 | HMGXB4 |
| TC22000256.hg.1 | 2.36 | JUC22001699.hg.1 | HMGXB4 |
| TC22000256.hg.1 | 2.01 | JUC22001698.hg.1 | HMGXB4 |
| TC22000256.hg.1 | -2.14 | PSR22004730.hg.1 | HMGXB4 |
| TC22000256.hg.1 | -2.25 | JUC22001709.hg.1 | HMGXB4 |
| TC01006297.hg.1 | 2.75 | JUC01039455.hg.1 | CDK11A, CDK11B |
| TC01006297.hg.1 | 2.3 | PSR01032151.hg.1 | CDK11A, CDK11B |
| TC01006297.hg.1 | 2.22 | JUC01039439.hg.1 | CDK11A, CDK11B |
| TC01006297.hg.1 | 2.11 | PSR01032147.hg.1 | CDK11A, CDK11B |
| TC01006297.hg.1 | 2.05 | PSR01032121.hg.1 | CDK11A, CDK11B |
| TC01006297.hg.1 | 2.01 | JUC01039464.hg.1 | CDK11A, CDK11B |
| TC01006297.hg.1 | -2.37 | JUC01039458.hg.1 | CDK11A, CDK11B |
| TC03000051.hg.1 | 2.75 | JUC03000592.hg.1 | FANCD2 |
| TC03000051.hg.1 | 2.09 | PSR03001177.hg.1 | FANCD2 |
| TC03000051.hg.1 | 2.02 | PSR03001210.hg.1 | FANCD2 |
| TC03000051.hg.1 | -2.01 | JUC03000632.hg.1 | FANCD2 |
| TC03000051.hg.1 | -2.02 | PSR03001199.hg.1 | FANCD2 |
| TC03000051.hg.1 | -2.28 | JUC03000602.hg.1 | FANCD2 |
| TC03000289.hg.1 | 2.75 | PSR03005938.hg.1 | CCDC36 |
| TC03000289.hg.1 | 2.37 | PSR03005941.hg.1 | CCDC36 |
| TC03000289.hg.1 | 2.33 | JUC03002967.hg.1 | CCDC36 |
| TC03000289.hg.1 | 2.28 | PSR03005934.hg.1 | CCDC36 |
| TC03000289.hg.1 | 2.24 | PSR03005933.hg.1 | CCDC36 |
| TC03000289.hg.1 | 2.07 | PSR03005942.hg.1 | CCDC36 |
| TC03000289.hg.1 | 2.06 | PSR03005936.hg.1 | CCDC36 |
| TC03000289.hg.1 | -2.15 | PSR03005947.hg.1 | CCDC36 |
| TC03000289.hg.1 | -3.12 | JUC03002972.hg.1 | CCDC36 |
| TC03000746.hg.1 | 2.75 | JUC03006861.hg.1 | FAIM |
| TC03000746.hg.1 | -5.11 | PSR03013582.hg.1 | FAIM |
| TC03000746.hg.1 | -5.35 | PSR03013601.hg.1 | FAIM |
| TC03000746.hg.1 | -5.5 | PSR03013590.hg.1 | FAIM |
| TC03000746.hg.1 | -5.6 | PSR03013583.hg.1 | FAIM |
| TC03000746.hg.1 | -6.1 | PSR03013581.hg.1 | FAIM |
| TC03000746.hg.1 | -6.25 | JUC03006865.hg.1 | FAIM |
| TC03000746.hg.1 | -7.87 | PSR03013586.hg.1 | FAIM |
| TC03000746.hg.1 | -8.37 | JUC03006869.hg.1 | FAIM |
| TC03000746.hg.1 | -10.1 | PSR03013584.hg.1 | FAIM |
| TC03000746.hg.1 | -10.44 | JUC03006864.hg.1 | FAIM |
| TC03000746.hg.1 | -11.45 | JUC03006859.hg.1 | FAIM |
| TC03000746.hg.1 | -13.47 | JUC03006863.hg.1 | FAIM |
| TC03000746.hg.1 | -14.01 | JUC03006862.hg.1 | FAIM |
| TC03003351.hg.1 | 2.75 | JUC03023652.hg.1 | RBM6 |
| TC03003351.hg.1 | 2.14 | JUC03023656.hg.1 | RBM6 |
| TC03003351.hg.1 | 2.08 | PSR03006247.hg.1 | RBM6 |
| TC03003351.hg.1 | 2.03 | JUC03023659.hg.1 | RBM6 |
| TC03003351.hg.1 | 2.02 | JUC03023647.hg.1 | RBM6 |
| TC03003351.hg.1 | -2.14 | PSR03006261.hg.1 | RBM6 |
| TC03003351.hg.1 | -2.28 | JUC03023644.hg.1 | RBM6 |
| TC03003351.hg.1 | -3.32 | JUC03023662.hg.1 | RBM6 |
| TC03003351.hg.1 | -3.96 | JUC03023632.hg.1 | RBM6 |
| TC04000788.hg.1 | 2.75 | PSR04010869.hg.1 | GUCY1B3 |
| TC04000788.hg.1 | 2.61 | PSR04010850.hg.1 | GUCY1B3 |
| TC04000788.hg.1 | 2.19 | PSR04010857.hg.1 | GUCY1B3 |
| TC04000788.hg.1 | 2.08 | JUC04005825.hg.1 | GUCY1B3 |
| TC04000788.hg.1 | 2.06 | PSR04010856.hg.1 | GUCY1B3 |
| TC04000788.hg.1 | -2.06 | JUC04005827.hg.1 | GUCY1B3 |
| TC04000788.hg.1 | -2.6 | JUC04005831.hg.1 | GUCY1B3 |

| | | | |
|-----------------|-------|------------------|------------|
| TC04000788.hg.1 | -4.44 | JUC04005839.hg.1 | GUCY1B3 |
| TC04000972.hg.1 | 2.75 | PSR04013361.hg.1 | POLN, HAUS |
| TC04000972.hg.1 | 2.08 | JUC04007111.hg.1 | POLN, HAUS |
| TC04000972.hg.1 | -2.1 | PSR04013372.hg.1 | POLN, HAUS |
| TC04001540.hg.1 | 2.75 | JUC04011476.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.7 | JUC04011465.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.5 | PSR04021762.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.41 | JUC04011484.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.19 | PSR04021764.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.08 | PSR04021769.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.07 | JUC04011478.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.06 | JUC04011474.hg.1 | SCLT1 |
| TC04001540.hg.1 | 2.01 | PSR04021796.hg.1 | SCLT1 |
| TC05000334.hg.1 | 2.75 | PSR05004533.hg.1 | MCCC2 |
| TC05000334.hg.1 | 2.47 | JUC05002441.hg.1 | MCCC2 |
| TC05000334.hg.1 | 2.15 | PSR05004539.hg.1 | MCCC2 |
| TC07001486.hg.1 | 2.75 | JUC07010960.hg.1 | TYW1B |
| TC07001486.hg.1 | 2.05 | JUC07010949.hg.1 | TYW1B |
| TC07001486.hg.1 | -2.06 | JUC07010943.hg.1 | TYW1B |
| TC07001486.hg.1 | -2.22 | PSR07022259.hg.1 | TYW1B |
| TC08001496.hg.1 | 2.75 | JUC08009949.hg.1 | RRM2B |
| TC08001496.hg.1 | 2.74 | JUC08009945.hg.1 | RRM2B |
| TC08001496.hg.1 | 2.44 | PSR08019603.hg.1 | RRM2B |
| TC08001496.hg.1 | 2.02 | PSR08019607.hg.1 | RRM2B |
| TC09000182.hg.1 | 2.75 | JUC09001049.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.7 | PSR09001967.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.63 | JUC09001050.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.55 | JUC09001051.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.26 | JUC09001046.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.23 | PSR09002013.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.23 | JUC09001053.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.19 | JUC09001040.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.1 | PSR09001964.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.06 | PSR09001968.hg.1 | UNC13B |
| TC09000182.hg.1 | 2.03 | PSR09001970.hg.1 | UNC13B |
| TC09000182.hg.1 | -2.09 | JUC09001059.hg.1 | UNC13B |
| TC10000739.hg.1 | 2.75 | JUC10004858.hg.1 | DPCD |
| TC10000739.hg.1 | 2.45 | JUC10004866.hg.1 | DPCD |
| TC10000739.hg.1 | 2.08 | JUC10004864.hg.1 | DPCD |
| TC10000739.hg.1 | 2.01 | PSR10008732.hg.1 | DPCD |
| TC11000980.hg.1 | 2.75 | JUC11006534.hg.1 | ATM |
| TC11000980.hg.1 | -2.02 | JUC11006577.hg.1 | ATM |
| TC11000980.hg.1 | -2.15 | JUC11006553.hg.1 | ATM |
| TC11000980.hg.1 | -2.19 | JUC11006570.hg.1 | ATM |
| TC11000980.hg.1 | -2.2 | JUC11006579.hg.1 | ATM |
| TC11000980.hg.1 | -2.21 | JUC11006599.hg.1 | ATM |
| TC11000980.hg.1 | -2.42 | PSR11012216.hg.1 | ATM |
| TC11000980.hg.1 | -2.53 | JUC11006592.hg.1 | ATM |
| TC11000980.hg.1 | -2.67 | JUC11006595.hg.1 | ATM |
| TC11000980.hg.1 | -2.93 | JUC11006537.hg.1 | ATM |
| TC11000980.hg.1 | -3.01 | JUC11006571.hg.1 | ATM |
| TC11000980.hg.1 | -3.23 | PSR11012218.hg.1 | ATM |
| TC11000980.hg.1 | -4.49 | JUC11006561.hg.1 | ATM |
| TC12000825.hg.1 | 2.75 | JUC12005800.hg.1 | RIC8B |
| TC12000825.hg.1 | 2.58 | JUC12005808.hg.1 | RIC8B |
| TC12000825.hg.1 | 2.06 | PSR12010554.hg.1 | RIC8B |
| TC12000825.hg.1 | -2.72 | JUC12005798.hg.1 | RIC8B |
| TC12000825.hg.1 | -2.84 | JUC12005797.hg.1 | RIC8B |

| | | | |
|-----------------|-------|-------------------|---------|
| TC12003296.hg.1 | 2.75 | PSR12005887.hg.1 | HOXC6 |
| TC12003296.hg.1 | 2.02 | JUC12020626.hg.1 | HOXC6 |
| TC14000132.hg.1 | 2.75 | PSR14001122.hg.1 | MRPL52 |
| TC14000132.hg.1 | -2.23 | PSR14001135.hg.1 | MRPL52 |
| TC14000132.hg.1 | -2.4 | PSR14001127.hg.1 | MRPL52 |
| TC14000132.hg.1 | -3.6 | JUC14000486.hg.1 | MRPL52 |
| TC20000555.hg.1 | 2.75 | JUC20004141.hg.1 | SIRPG |
| TC20000555.hg.1 | 2.58 | JUC20004144.hg.1 | SIRPG |
| TC20000555.hg.1 | 2.51 | JUC20004150.hg.1 | SIRPG |
| TC20000555.hg.1 | 2.12 | PSR20008054.hg.1 | SIRPG |
| TC20000555.hg.1 | 2.04 | JUC20004147.hg.1 | SIRPG |
| TC20000555.hg.1 | -2.47 | PSR20008062.hg.1 | SIRPG |
| TC21000131.hg.1 | 2.75 | JUC21000547.hg.1 | ITSN1 |
| TC21000131.hg.1 | 2.72 | PSR21001102.hg.1 | ITSN1 |
| TC21000131.hg.1 | 2.43 | JUC21000585.hg.1 | ITSN1 |
| TC21000131.hg.1 | 2.17 | PSR21001103.hg.1 | ITSN1 |
| TC21000131.hg.1 | 2.03 | PSR21001112.hg.1 | ITSN1 |
| TC22001477.hg.1 | 2.75 | JUC22009458.hg.1 | PNPLA3 |
| TC22001477.hg.1 | -2.02 | PSR22007011.hg.1 | PNPLA3 |
| TC22001477.hg.1 | -2.3 | PSR22006996.hg.1 | PNPLA3 |
| TC22001477.hg.1 | -2.85 | PSR22006998.hg.1 | PNPLA3 |
| TC22001477.hg.1 | -3.07 | PSR22006993.hg.1 | PNPLA3 |
| TC22001477.hg.1 | -4.53 | JUC22009456.hg.1 | PNPLA3 |
| TC6_qbl_hap6000 | 2.75 | PSR6_qbl_hap60040 | VPS52 |
| TC6_qbl_hap6000 | 2.3 | JUC6_qbl_hap60016 | VPS52 |
| TC6_qbl_hap6000 | -2.1 | JUC6_qbl_hap60016 | VPS52 |
| TC6_qbl_hap6000 | -2.18 | JUC6_qbl_hap60016 | VPS52 |
| TC6_qbl_hap6000 | -2.28 | JUC6_qbl_hap60015 | VPS52 |
| TC02002946.hg.1 | 2.74 | PSR02047255.hg.1 | MTERFD2 |
| TC02002946.hg.1 | 2.55 | PSR02047250.hg.1 | MTERFD2 |
| TC02002946.hg.1 | 2.12 | JUC02024743.hg.1 | MTERFD2 |
| TC02002946.hg.1 | -2.28 | PSR02047273.hg.1 | MTERFD2 |
| TC03002170.hg.1 | 2.74 | PSR03038332.hg.1 | NCBP2 |
| TC03002170.hg.1 | 2.41 | JUC03018976.hg.1 | NCBP2 |
| TC03002170.hg.1 | 2.24 | PSR03038330.hg.1 | NCBP2 |
| TC03002170.hg.1 | -2.31 | JUC03018977.hg.1 | NCBP2 |
| TC03003318.hg.1 | 2.74 | JUC03023033.hg.1 | WDR6 |
| TC03003318.hg.1 | 2.38 | JUC03023045.hg.1 | WDR6 |
| TC03003318.hg.1 | 2.27 | JUC03023044.hg.1 | WDR6 |
| TC03003318.hg.1 | 2.1 | PSR03005847.hg.1 | WDR6 |
| TC09000753.hg.1 | 2.74 | PSR09009706.hg.1 | |
| TC09000753.hg.1 | 2.12 | JUC09005325.hg.1 | |
| TC12000092.hg.1 | 2.74 | PSR12001045.hg.1 | CD4 |
| TC12000092.hg.1 | 2.48 | JUC12000568.hg.1 | CD4 |
| TC12000092.hg.1 | 2.17 | PSR12001051.hg.1 | CD4 |
| TC12000092.hg.1 | 2.11 | JUC12000563.hg.1 | CD4 |
| TC12000092.hg.1 | 2.08 | PSR12001042.hg.1 | CD4 |
| TC12000092.hg.1 | -2.49 | PSR12001054.hg.1 | CD4 |
| TC12000092.hg.1 | -2.55 | JUC12000579.hg.1 | CD4 |
| TC12001843.hg.1 | 2.74 | PSR12024272.hg.1 | LTA4H |
| TC12001843.hg.1 | 2.23 | JUC12013477.hg.1 | LTA4H |
| TC12001843.hg.1 | 2.09 | PSR12024257.hg.1 | LTA4H |
| TC12001843.hg.1 | -2.76 | JUC12013496.hg.1 | LTA4H |
| TC12001843.hg.1 | -2.91 | PSR12024253.hg.1 | LTA4H |
| TC15001886.hg.1 | 2.74 | PSR15018089.hg.1 | FAM174B |
| TC15001886.hg.1 | 2.13 | JUC15009862.hg.1 | FAM174B |
| TC15001886.hg.1 | -2.61 | JUC15009868.hg.1 | FAM174B |
| TC15001886.hg.1 | -3.66 | PSR15018079.hg.1 | FAM174B |

| | | | |
|------------------|-------|-------------------|------------|
| TC16000571.hg.1 | 2.74 | PSR16008252.hg.1 | WWP2 |
| TC16000571.hg.1 | 2.46 | PSR16008260.hg.1 | WWP2 |
| TC16000571.hg.1 | 2.36 | PSR16008262.hg.1 | WWP2 |
| TC16000571.hg.1 | 2.21 | JUC16004626.hg.1 | WWP2 |
| TC16000571.hg.1 | 2.05 | JUC16004644.hg.1 | WWP2 |
| TC16000571.hg.1 | -2.02 | JUC16004631.hg.1 | WWP2 |
| TC16000571.hg.1 | -2.13 | PSR16008279.hg.1 | WWP2 |
| TC17001565.hg.1 | 2.74 | JUC17011767.hg.1 | MPP2 |
| TC17001565.hg.1 | 2.38 | PSR17021029.hg.1 | MPP2 |
| TC17001565.hg.1 | 2.17 | PSR17021021.hg.1 | MPP2 |
| TC17001565.hg.1 | 2.12 | PSR17021030.hg.1 | MPP2 |
| TC17001565.hg.1 | -2.19 | PSR17021017.hg.1 | MPP2 |
| TC17001565.hg.1 | -2.7 | JUC17011768.hg.1 | MPP2 |
| TC18000009.hg.1 | 2.74 | JUC18000057.hg.1 | NDC80 |
| TC18000009.hg.1 | 2.17 | PSR18000097.hg.1 | NDC80 |
| TC18000009.hg.1 | -2.09 | PSR18000089.hg.1 | NDC80 |
| TC18000009.hg.1 | -2.39 | PSR18000088.hg.1 | NDC80 |
| TC18000009.hg.1 | -4.02 | JUC18000053.hg.1 | NDC80 |
| TC22000667.hg.1 | 2.74 | JUC22004846.hg.1 | PIK3IP1 |
| TC22000667.hg.1 | 2.24 | PSR22011782.hg.1 | PIK3IP1 |
| TC22000667.hg.1 | 2.12 | JUC22004839.hg.1 | PIK3IP1 |
| TC6_ssto_hap7000 | 2.74 | PSR6_ssto_hap7001 | SAPCD1, MS |
| TC6_ssto_hap7000 | 2.68 | JUC6_ssto_hap7000 | SAPCD1, MS |
| TC6_ssto_hap7000 | 2.63 | JUC6_ssto_hap7000 | SAPCD1, MS |
| TC6_ssto_hap7000 | 2.41 | JUC6_ssto_hap7000 | SAPCD1, MS |
| TC6_ssto_hap7000 | 2.26 | JUC6_ssto_hap7000 | SAPCD1, MS |
| TC6_ssto_hap7000 | -2.17 | JUC6_ssto_hap7000 | SAPCD1, MS |
| TC6_ssto_hap7000 | -2.64 | JUC6_ssto_hap7000 | SAPCD1, MS |
| TC6_ssto_hap7000 | 2.74 | JUC6_ssto_hap7001 | HLA-H |
| TC6_ssto_hap7000 | 2.46 | PSR6_ssto_hap7000 | HLA-H |
| TC6_ssto_hap7000 | 2.43 | JUC6_ssto_hap7001 | HLA-H |
| TC6_ssto_hap7000 | 2.22 | PSR6_ssto_hap7000 | HLA-H |
| TC6_ssto_hap7000 | 2.18 | PSR6_ssto_hap7000 | HLA-H |
| TC6_ssto_hap7000 | 2.74 | PSR6_ssto_hap7000 | HLA-G |
| TC6_ssto_hap7000 | -2 | JUC6_ssto_hap7001 | HLA-G |
| TC6_ssto_hap7000 | -2.53 | PSR6_ssto_hap7000 | HLA-G |
| TC02001742.hg.1 | 2.73 | JUC02014703.hg.1 | PRKD3 |
| TC02001742.hg.1 | 2.15 | PSR02028073.hg.1 | PRKD3 |
| TC02001742.hg.1 | -2.66 | JUC02014704.hg.1 | PRKD3 |
| TC03001361.hg.1 | 2.73 | JUC03011609.hg.1 | PRSS42 |
| TC03001361.hg.1 | 2.34 | PSR03023325.hg.1 | PRSS42 |
| TC03001361.hg.1 | 2.22 | PSR03023318.hg.1 | PRSS42 |
| TC08000598.hg.1 | 2.73 | JUC08004187.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | 2.17 | PSR08008297.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -2 | PSR08008309.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -2.03 | JUC08004170.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -2.35 | PSR08008317.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -2.43 | PSR08008313.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -2.92 | JUC08004186.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -3.08 | PSR08008310.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -3.09 | JUC08004173.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -3.15 | JUC08004174.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -3.55 | JUC08004181.hg.1 | MATN2, LOC |
| TC08000598.hg.1 | -4.2 | JUC08004179.hg.1 | MATN2, LOC |
| TC09000400.hg.1 | 2.73 | PSR09004331.hg.1 | CTSL1 |
| TC09000400.hg.1 | 2.43 | PSR09004300.hg.1 | CTSL1 |
| TC09000400.hg.1 | 2.29 | JUC09002372.hg.1 | CTSL1 |
| TC09000400.hg.1 | 2.01 | PSR09004327.hg.1 | CTSL1 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC09000400.hg.1 | -2.14 | JUC09002367.hg.1 | CTSL1 |
| TC09000400.hg.1 | -2.4 | JUC09002371.hg.1 | CTSL1 |
| TC0X000868.hg.1 | 2.73 | JUC0X005686.hg.1 | GPM6B |
| TC0X000868.hg.1 | -2.01 | PSR0X011581.hg.1 | GPM6B |
| TC0X000868.hg.1 | -2.42 | PSR0X011580.hg.1 | GPM6B |
| TC0X000868.hg.1 | -2.62 | PSR0X011571.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.17 | PSR0X011592.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.28 | PSR0X011594.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.34 | JUC0X005691.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.44 | PSR0X011560.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.49 | PSR0X011587.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.6 | PSR0X011595.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.64 | PSR0X011593.hg.1 | GPM6B |
| TC0X000868.hg.1 | -3.67 | JUC0X005701.hg.1 | GPM6B |
| TC0X000868.hg.1 | -4.05 | PSR0X011584.hg.1 | GPM6B |
| TC0X000868.hg.1 | -4.08 | PSR0X011591.hg.1 | GPM6B |
| TC0X000868.hg.1 | -4.54 | JUC0X005696.hg.1 | GPM6B |
| TC0X000868.hg.1 | -5.58 | PSR0X011588.hg.1 | GPM6B |
| TC0X000868.hg.1 | -5.64 | JUC0X005685.hg.1 | GPM6B |
| TC15001763.hg.1 | 2.73 | PSR15017300.hg.1 | C15orf40 |
| TC15001763.hg.1 | 2.08 | PSR15017286.hg.1 | C15orf40 |
| TC15001763.hg.1 | -2.02 | PSR15017293.hg.1 | C15orf40 |
| TC15001763.hg.1 | -4.05 | JUC15009442.hg.1 | C15orf40 |
| TC17000363.hg.1 | 2.73 | JUC17002628.hg.1 | RAB11FIP4, M |
| TC17000363.hg.1 | 2.48 | PSR17004613.hg.1 | RAB11FIP4, M |
| TC17000363.hg.1 | -3.43 | PSR17004616.hg.1 | RAB11FIP4, M |
| TC20000574.hg.1 | 2.73 | PSR20008408.hg.1 | ADAM33 |
| TC20000574.hg.1 | 2.55 | JUC20004331.hg.1 | ADAM33 |
| TC20000574.hg.1 | -2.2 | PSR20008401.hg.1 | ADAM33 |
| TC22000324.hg.1 | 2.73 | PSR22006266.hg.1 | SGSM3 |
| TC22000324.hg.1 | 2.26 | JUC22002253.hg.1 | SGSM3 |
| TC01002196.hg.1 | 2.72 | PSR01033889.hg.1 | EXOSC10 |
| TC01002196.hg.1 | -2.08 | PSR01033895.hg.1 | EXOSC10 |
| TC01002196.hg.1 | -2.43 | JUC01018175.hg.1 | EXOSC10 |
| TC01002196.hg.1 | -2.61 | JUC01018156.hg.1 | EXOSC10 |
| TC01002307.hg.1 | 2.72 | JUC01018991.hg.1 | PLA2G2A |
| TC01002307.hg.1 | 2.25 | JUC01018994.hg.1 | PLA2G2A |
| TC01002307.hg.1 | -2.13 | PSR01035344.hg.1 | PLA2G2A |
| TC01006325.hg.1 | 2.72 | JUC01044069.hg.1 | RWDD3 |
| TC01006325.hg.1 | 2.03 | PSR01013901.hg.1 | RWDD3 |
| TC02000816.hg.1 | 2.72 | JUC02006650.hg.1 | POTEJ |
| TC02000816.hg.1 | -2.05 | JUC02006652.hg.1 | POTEJ |
| TC02000816.hg.1 | -2.36 | PSR02012566.hg.1 | POTEJ |
| TC03001714.hg.1 | 2.72 | JUC03015503.hg.1 | CCDC14 |
| TC03001714.hg.1 | 2.1 | JUC03015513.hg.1 | CCDC14 |
| TC03001714.hg.1 | -2.15 | PSR03031144.hg.1 | CCDC14 |
| TC03001714.hg.1 | -2.24 | PSR03031126.hg.1 | CCDC14 |
| TC03001714.hg.1 | -2.26 | PSR03031146.hg.1 | CCDC14 |
| TC03001714.hg.1 | -2.32 | PSR03031149.hg.1 | CCDC14 |
| TC04000363.hg.1 | 2.72 | PSR04004986.hg.1 | LOC50112, I |
| TC04000363.hg.1 | 2.33 | PSR04004961.hg.1 | LOC50112, I |
| TC04000363.hg.1 | 2.31 | PSR04004962.hg.1 | LOC50112, I |
| TC04000363.hg.1 | 2.24 | JUC04002472.hg.1 | LOC50112, I |
| TC04000363.hg.1 | 2.18 | JUC04002480.hg.1 | LOC50112, I |
| TC05000009.hg.1 | 2.72 | JUC05000123.hg.1 | CEP72 |
| TC05000009.hg.1 | 2.24 | JUC05000114.hg.1 | CEP72 |
| TC05000009.hg.1 | -2.2 | JUC05000126.hg.1 | CEP72 |
| TC05000009.hg.1 | -2.28 | PSR05000223.hg.1 | CEP72 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06001869.hg.1 | 2.72 | JUC06010965.hg.1 | KHDC1L, KHI |
| TC06001869.hg.1 | 2.39 | JUC06010973.hg.1 | KHDC1L, KHI |
| TC06001869.hg.1 | 2.2 | JUC06010976.hg.1 | KHDC1L, KHI |
| TC06001869.hg.1 | 2.01 | JUC06010975.hg.1 | KHDC1L, KHI |
| TC06001869.hg.1 | -2.07 | JUC06010978.hg.1 | KHDC1L, KHI |
| TC06001869.hg.1 | -2.15 | PSR06022666.hg.1 | KHDC1L, KHI |
| TC07003351.hg.1 | 2.72 | JUC07021327.hg.1 | HOXA3 |
| TC07003351.hg.1 | -2.29 | JUC07021331.hg.1 | HOXA3 |
| TC07003351.hg.1 | -2.42 | PSR07019079.hg.1 | HOXA3 |
| TC07003351.hg.1 | -3.08 | PSR07019081.hg.1 | HOXA3 |
| TC07003351.hg.1 | -3.63 | PSR07019098.hg.1 | HOXA3 |
| TC11000539.hg.1 | 2.72 | JUC11003380.hg.1 | C11orf9 |
| TC11000539.hg.1 | 2.09 | JUC11003369.hg.1 | C11orf9 |
| TC11000539.hg.1 | -2.05 | PSR11006549.hg.1 | C11orf9 |
| TC11000539.hg.1 | -2.15 | JUC11003382.hg.1 | C11orf9 |
| TC11000539.hg.1 | -2.37 | JUC11003376.hg.1 | C11orf9 |
| TC12000884.hg.1 | 2.72 | JUC12006416.hg.1 | OAS1 |
| TC12000884.hg.1 | 2.16 | JUC12006417.hg.1 | OAS1 |
| TC12000884.hg.1 | -2.19 | PSR12011665.hg.1 | OAS1 |
| TC14001313.hg.1 | 2.72 | JUC14007602.hg.1 | PGF |
| TC14001313.hg.1 | 2.02 | JUC14007606.hg.1 | PGF |
| TC14001313.hg.1 | -2.11 | PSR14014998.hg.1 | PGF |
| TC14001313.hg.1 | -2.12 | PSR14015003.hg.1 | PGF |
| TC14001313.hg.1 | -4.81 | JUC14007605.hg.1 | PGF |
| TC14001313.hg.1 | -8.6 | JUC14007604.hg.1 | PGF |
| TC01001669.hg.1 | 2.71 | JUC01013808.hg.1 | RNPEP |
| TC01001669.hg.1 | 2.66 | PSR01025836.hg.1 | RNPEP |
| TC01001669.hg.1 | 2.51 | PSR01025845.hg.1 | RNPEP |
| TC01001669.hg.1 | 2.32 | PSR01025849.hg.1 | RNPEP |
| TC02000285.hg.1 | 2.71 | PSR02004337.hg.1 | CRIPT |
| TC02000285.hg.1 | 2.62 | PSR02004342.hg.1 | CRIPT |
| TC02000285.hg.1 | 2.15 | PSR02004336.hg.1 | CRIPT |
| TC02000285.hg.1 | 2.1 | PSR02004340.hg.1 | CRIPT |
| TC02000285.hg.1 | 2 | JUC02002261.hg.1 | CRIPT |
| TC02001034.hg.1 | 2.71 | JUC02008254.hg.1 | ZAK |
| TC02001034.hg.1 | 2.08 | PSR02015483.hg.1 | ZAK |
| TC02001034.hg.1 | -2.17 | JUC02008257.hg.1 | ZAK |
| TC02001911.hg.1 | 2.71 | JUC02016108.hg.1 | PELI1 |
| TC02001911.hg.1 | -2.23 | PSR02030571.hg.1 | PELI1 |
| TC04000009.hg.1 | 2.71 | JUC04000045.hg.1 | PIGG |
| TC04000009.hg.1 | 2.51 | PSR04000118.hg.1 | PIGG |
| TC04000009.hg.1 | 2.42 | JUC04000038.hg.1 | PIGG |
| TC04000009.hg.1 | 2.35 | JUC04000010.hg.1 | PIGG |
| TC04000009.hg.1 | 2.24 | JUC04000014.hg.1 | PIGG |
| TC04000009.hg.1 | 2.19 | PSR04000114.hg.1 | PIGG |
| TC04000009.hg.1 | 2.06 | PSR04000115.hg.1 | PIGG |
| TC04000009.hg.1 | -4.38 | PSR04000126.hg.1 | PIGG |
| TC04000427.hg.1 | 2.71 | JUC04003012.hg.1 | SHROOM3 |
| TC04000427.hg.1 | 2.36 | PSR04005982.hg.1 | SHROOM3 |
| TC04000427.hg.1 | 2.3 | PSR04006001.hg.1 | SHROOM3 |
| TC04000427.hg.1 | 2.11 | PSR04005986.hg.1 | SHROOM3 |
| TC04000427.hg.1 | 2 | PSR04005988.hg.1 | SHROOM3 |
| TC04000427.hg.1 | -2.22 | JUC04003009.hg.1 | SHROOM3 |
| TC05000363.hg.1 | 2.71 | JUC05002687.hg.1 | HMGCR |
| TC05000363.hg.1 | -2.42 | JUC05002688.hg.1 | HMGCR |
| TC05000363.hg.1 | -3.31 | PSR05005021.hg.1 | HMGCR |
| TC05000942.hg.1 | 2.71 | JUC05007150.hg.1 | NPM1 |
| TC05000942.hg.1 | 2.13 | PSR05013776.hg.1 | NPM1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC06000120.hg.1 | 2.71 | PSR06001259.hg.1 | RNF144B |
| TC06000120.hg.1 | 2.59 | PSR06001258.hg.1 | RNF144B |
| TC06000120.hg.1 | -2.14 | JUC06000604.hg.1 | RNF144B |
| TC08000406.hg.1 | 2.71 | PSR08005683.hg.1 | LOC1005055 |
| TC08000406.hg.1 | 2.17 | PSR08005682.hg.1 | LOC1005055 |
| TC08000406.hg.1 | 2.05 | JUC08002813.hg.1 | LOC1005055 |
| TC0X000082.hg.1 | 2.71 | JUC0X000583.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.01 | PSR0X001092.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.05 | JUC0X000597.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.07 | PSR0X001077.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.23 | PSR0X001102.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.44 | PSR0X001094.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.47 | PSR0X001097.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.54 | PSR0X001104.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.55 | JUC0X000593.hg.1 | REPS2 |
| TC0X000082.hg.1 | -2.87 | PSR0X001083.hg.1 | REPS2 |
| TC0X000082.hg.1 | -3.22 | PSR0X001075.hg.1 | REPS2 |
| TC0X000082.hg.1 | -3.43 | PSR0X001093.hg.1 | REPS2 |
| TC0X000082.hg.1 | -3.46 | PSR0X001076.hg.1 | REPS2 |
| TC0X000082.hg.1 | -3.59 | PSR0X001074.hg.1 | REPS2 |
| TC10001573.hg.1 | 2.71 | JUC10011732.hg.1 | CRTAC1 |
| TC10001573.hg.1 | 2.04 | PSR10020168.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.03 | PSR10020166.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.19 | JUC10011734.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.21 | JUC10011729.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.26 | JUC10011739.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.41 | JUC10011738.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.71 | PSR10020177.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -2.76 | PSR10020167.hg.1 | CRTAC1 |
| TC10001573.hg.1 | -3.17 | JUC10011727.hg.1 | CRTAC1 |
| TC11000273.hg.1 | 2.71 | PSR11003621.hg.1 | |
| TC11000273.hg.1 | 2.57 | JUC11001867.hg.1 | |
| TC11000273.hg.1 | 2.27 | PSR11003620.hg.1 | |
| TC14000836.hg.1 | 2.71 | JUC14004695.hg.1 | MTA1 |
| TC14000836.hg.1 | 2.5 | PSR14009202.hg.1 | MTA1 |
| TC14000836.hg.1 | 2.07 | PSR14009206.hg.1 | MTA1 |
| TC14000836.hg.1 | 2.03 | JUC14004692.hg.1 | MTA1 |
| TC14000836.hg.1 | -2.29 | JUC14004673.hg.1 | MTA1 |
| TC17001077.hg.1 | 2.71 | PSR17014437.hg.1 | DLG4 |
| TC17001077.hg.1 | 2.61 | PSR17014424.hg.1 | DLG4 |
| TC17001077.hg.1 | 2.44 | PSR17014435.hg.1 | DLG4 |
| TC17001077.hg.1 | 2.1 | PSR17014397.hg.1 | DLG4 |
| TC17001077.hg.1 | 2.06 | JUC17008237.hg.1 | DLG4 |
| TC17001077.hg.1 | 2 | PSR17014391.hg.1 | DLG4 |
| TC17001077.hg.1 | -2.08 | JUC17008247.hg.1 | DLG4 |
| TC17001129.hg.1 | 2.71 | JUC17008671.hg.1 | GAS7 |
| TC17001129.hg.1 | 2.19 | PSR17015199.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.09 | JUC17008672.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.29 | PSR17015209.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.32 | PSR17015222.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.36 | PSR17015216.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.53 | PSR17015224.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.57 | JUC17008679.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.57 | JUC17008681.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.59 | JUC17008684.hg.1 | GAS7 |
| TC17001129.hg.1 | -2.98 | PSR17015231.hg.1 | GAS7 |
| TC17001129.hg.1 | -3.09 | PSR17015226.hg.1 | GAS7 |
| TC17001129.hg.1 | -4.02 | PSR17015225.hg.1 | GAS7 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC17001129.hg.1 | -4.39 | PSR17015227.hg.1 | GAS7 |
| TC17001129.hg.1 | -4.52 | JUC17008680.hg.1 | GAS7 |
| TC17001129.hg.1 | -5.06 | PSR17015218.hg.1 | GAS7 |
| TC17001129.hg.1 | -5.18 | PSR17015229.hg.1 | GAS7 |
| TC17001129.hg.1 | -7.64 | JUC17008685.hg.1 | GAS7 |
| TC18000272.hg.1 | 2.71 | PSR18003195.hg.1 | THOC1 |
| TC18000272.hg.1 | -2.02 | JUC18002159.hg.1 | THOC1 |
| TC18000272.hg.1 | -2.19 | JUC18002157.hg.1 | THOC1 |
| TC18000272.hg.1 | -2.81 | JUC18002154.hg.1 | THOC1 |
| TC19000943.hg.1 | 2.71 | JUC19007288.hg.1 | ZNF419 |
| TC19000943.hg.1 | -5.28 | PSR19012932.hg.1 | ZNF419 |
| TC19001525.hg.1 | 2.71 | JUC19011896.hg.1 | DYRK1B |
| TC19001525.hg.1 | 2.52 | JUC19011897.hg.1 | DYRK1B |
| TC19001525.hg.1 | 2.51 | JUC19011895.hg.1 | DYRK1B |
| TC19001525.hg.1 | 2.39 | PSR19020751.hg.1 | DYRK1B |
| TC19001525.hg.1 | -2.22 | JUC19011900.hg.1 | DYRK1B |
| TC06000384.hg.1 | 2.7 | JUC06001646.hg.1 | HSPA1A, HSP |
| TC06000384.hg.1 | 2.39 | PSR06003938.hg.1 | HSPA1A, HSP |
| TC07000140.hg.1 | 2.7 | PSR07002147.hg.1 | KLHL7 |
| TC07000140.hg.1 | 2.17 | PSR07002166.hg.1 | KLHL7 |
| TC07000140.hg.1 | -2.01 | JUC07001065.hg.1 | KLHL7 |
| TC07000140.hg.1 | -2.78 | JUC07001045.hg.1 | KLHL7 |
| TC07000140.hg.1 | -3.53 | PSR07002178.hg.1 | KLHL7 |
| TC09000032.hg.1 | 2.7 | PSR09000407.hg.1 | RCL1 |
| TC09000032.hg.1 | 2.25 | JUC09000247.hg.1 | RCL1 |
| TC09000032.hg.1 | -3.55 | JUC09000250.hg.1 | RCL1 |
| TC0X000101.hg.1 | 2.7 | JUC0X000744.hg.1 | SMS |
| TC0X000101.hg.1 | 2.47 | PSR0X001341.hg.1 | SMS |
| TC0X000101.hg.1 | 2.26 | PSR0X001347.hg.1 | SMS |
| TC0X000101.hg.1 | 2.07 | JUC0X000739.hg.1 | SMS |
| TC10001054.hg.1 | 2.7 | JUC10007627.hg.1 | FAM107B |
| TC10001054.hg.1 | -2.15 | PSR10013152.hg.1 | FAM107B |
| TC10001054.hg.1 | -2.29 | JUC10007611.hg.1 | FAM107B |
| TC10001567.hg.1 | 2.7 | JUC10011697.hg.1 | MMS19 |
| TC10001567.hg.1 | 2.39 | JUC10011684.hg.1 | MMS19 |
| TC10001567.hg.1 | -2.08 | PSR10020074.hg.1 | MMS19 |
| TC10001567.hg.1 | -2.36 | JUC10011678.hg.1 | MMS19 |
| TC11001913.hg.1 | 2.7 | PSR11022802.hg.1 | MEN1 |
| TC11001913.hg.1 | -2.01 | JUC11012013.hg.1 | MEN1 |
| TC17000671.hg.1 | 2.7 | JUC17004726.hg.1 | CACNA1G |
| TC17000671.hg.1 | 2.3 | JUC17004731.hg.1 | CACNA1G |
| TC17000671.hg.1 | 2.21 | JUC17004719.hg.1 | CACNA1G |
| TC17000671.hg.1 | 2.04 | PSR17008678.hg.1 | CACNA1G |
| TC17000671.hg.1 | 2.02 | PSR17008697.hg.1 | CACNA1G |
| TC17000671.hg.1 | -2.73 | JUC17004720.hg.1 | CACNA1G |
| TC17000671.hg.1 | -2.96 | JUC17004743.hg.1 | CACNA1G |
| TC17000671.hg.1 | -3.57 | JUC17004704.hg.1 | CACNA1G |
| TC18000142.hg.1 | 2.7 | JUC18001116.hg.1 | MAPRE2 |
| TC18000142.hg.1 | 2.65 | PSR18001600.hg.1 | MAPRE2 |
| TC18000142.hg.1 | 2.45 | PSR18001596.hg.1 | MAPRE2 |
| TC18000142.hg.1 | 2.15 | JUC18001120.hg.1 | MAPRE2 |
| TC18000142.hg.1 | 2.06 | PSR18001604.hg.1 | MAPRE2 |
| TC20000118.hg.1 | 2.7 | JUC20000797.hg.1 | ZNF133 |
| TC20000118.hg.1 | 2.13 | JUC20000807.hg.1 | ZNF133 |
| TC20000118.hg.1 | -2.12 | JUC20000796.hg.1 | ZNF133 |
| TC20000118.hg.1 | -2.51 | PSR20001549.hg.1 | ZNF133 |
| TC22000301.hg.1 | 2.7 | JUC22002071.hg.1 | KDELR3 |
| TC22000301.hg.1 | -2.85 | PSR22005637.hg.1 | KDELR3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01002135.hg.1 | 2.69 | PSR01032834.hg.1 | TP73-AS1 |
| TC01002135.hg.1 | -3.11 | PSR01032819.hg.1 | TP73-AS1 |
| TC01002135.hg.1 | -3.12 | JUC01017587.hg.1 | TP73-AS1 |
| TC01002135.hg.1 | -3.12 | JUC01017589.hg.1 | TP73-AS1 |
| TC01002135.hg.1 | -3.17 | PSR01032818.hg.1 | TP73-AS1 |
| TC01006349.hg.1 | 2.69 | PSR01038663.hg.1 | ZMYM6NB, Z |
| TC01006349.hg.1 | 2.28 | PSR01038662.hg.1 | ZMYM6NB, Z |
| TC01006349.hg.1 | 2.05 | PSR01038664.hg.1 | ZMYM6NB, Z |
| TC01006349.hg.1 | -2.14 | JUC01044355.hg.1 | ZMYM6NB, Z |
| TC01006349.hg.1 | -2.17 | JUC01044352.hg.1 | ZMYM6NB, Z |
| TC01006349.hg.1 | -7.41 | JUC01044353.hg.1 | ZMYM6NB, Z |
| TC02001328.hg.1 | 2.69 | PSR02020674.hg.1 | SPEG |
| TC02001328.hg.1 | 2.24 | JUC02011052.hg.1 | SPEG |
| TC02001328.hg.1 | 2.15 | JUC02011034.hg.1 | SPEG |
| TC02001328.hg.1 | 2.15 | JUC02011038.hg.1 | SPEG |
| TC02001328.hg.1 | -3.63 | JUC02011028.hg.1 | SPEG |
| TC02004922.hg.1 | 2.69 | JUC02031238.hg.1 | LOC1005060 |
| TC02004922.hg.1 | 2.21 | PSR02024828.hg.1 | LOC1005060 |
| TC02004922.hg.1 | 2.09 | PSR02024830.hg.1 | LOC1005060 |
| TC02004922.hg.1 | 2.02 | PSR02024829.hg.1 | LOC1005060 |
| TC03000056.hg.1 | 2.69 | JUC03000649.hg.1 | IRAK2 |
| TC03000056.hg.1 | 2.48 | JUC03000652.hg.1 | IRAK2 |
| TC03000056.hg.1 | -3.56 | JUC03000656.hg.1 | IRAK2 |
| TC03000056.hg.1 | -3.6 | PSR03001283.hg.1 | IRAK2 |
| TC03001008.hg.1 | 2.69 | PSR03017847.hg.1 | VPS8, LOC10 |
| TC03001008.hg.1 | 2.68 | JUC03009075.hg.1 | VPS8, LOC10 |
| TC03001008.hg.1 | 2.49 | JUC03009057.hg.1 | VPS8, LOC10 |
| TC03001008.hg.1 | 2.13 | JUC03009023.hg.1 | VPS8, LOC10 |
| TC03001008.hg.1 | 2.03 | PSR03017837.hg.1 | VPS8, LOC10 |
| TC03001008.hg.1 | 2.02 | JUC03009070.hg.1 | VPS8, LOC10 |
| TC03002108.hg.1 | 2.69 | PSR03037298.hg.1 | CLDN1 |
| TC03002108.hg.1 | 2.56 | JUC03018438.hg.1 | CLDN1 |
| TC03002108.hg.1 | 2.39 | PSR03037289.hg.1 | CLDN1 |
| TC03002108.hg.1 | 2.18 | PSR03037297.hg.1 | CLDN1 |
| TC03002108.hg.1 | 2.07 | PSR03037300.hg.1 | CLDN1 |
| TC08000175.hg.1 | 2.69 | PSR08002227.hg.1 | KIAA1967 |
| TC08000175.hg.1 | -2.02 | JUC08001151.hg.1 | KIAA1967 |
| TC08001166.hg.1 | 2.69 | PSR08014987.hg.1 | SFRP1 |
| TC08001166.hg.1 | 2.63 | PSR08014989.hg.1 | SFRP1 |
| TC08001166.hg.1 | 2.42 | PSR08014984.hg.1 | SFRP1 |
| TC08001166.hg.1 | 2.35 | PSR08014983.hg.1 | SFRP1 |
| TC08001166.hg.1 | 2.18 | PSR08014990.hg.1 | SFRP1 |
| TC08001166.hg.1 | -2.76 | PSR08014986.hg.1 | SFRP1 |
| TC08001166.hg.1 | -2.79 | JUC08007656.hg.1 | SFRP1 |
| TC08001166.hg.1 | -3.44 | PSR08014980.hg.1 | SFRP1 |
| TC08001166.hg.1 | -3.54 | PSR08014981.hg.1 | SFRP1 |
| TC08001166.hg.1 | -5.7 | JUC08007657.hg.1 | SFRP1 |
| TC09001181.hg.1 | 2.69 | JUC09008163.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | 2.28 | JUC09008159.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.01 | PSR09015224.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.03 | PSR09015178.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.04 | PSR09015175.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.11 | PSR09015200.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.16 | PSR09015162.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.16 | JUC09008141.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.24 | JUC09008169.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.69 | JUC09008162.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -2.71 | PSR09015165.hg.1 | CBWD5, CBV |

| | | | |
|-----------------|-------|------------------|------------|
| TC09001181.hg.1 | -2.82 | PSR09015183.hg.1 | CBWD5, CBV |
| TC09001181.hg.1 | -4.72 | JUC09008164.hg.1 | CBWD5, CBV |
| TC0X000382.hg.1 | 2.69 | JUC0X002463.hg.1 | MED12 |
| TC0X000382.hg.1 | 2.64 | JUC0X002448.hg.1 | MED12 |
| TC0X000382.hg.1 | 2.4 | PSR0X005018.hg.1 | MED12 |
| TC0Y000057.hg.1 | 2.69 | PSR0Y000709.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.06 | PSR0Y000712.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.25 | PSR0Y000702.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.26 | PSR0Y000705.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.29 | PSR0Y000698.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.4 | PSR0Y000692.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.4 | JUC0Y000314.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.53 | PSR0Y000689.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.65 | PSR0Y000691.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -2.8 | PSR0Y000710.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -3.05 | PSR0Y000687.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -3.23 | PSR0Y000690.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -3.41 | PSR0Y000686.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -3.49 | PSR0Y000685.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -3.68 | PSR0Y000703.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -4.36 | JUC0Y000323.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -4.85 | JUC0Y000327.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -5.21 | PSR0Y000688.hg.1 | NLGN4Y |
| TC0Y000057.hg.1 | -7 | JUC0Y000313.hg.1 | NLGN4Y |
| TC10000412.hg.1 | 2.69 | PSR10004617.hg.1 | DDX50 |
| TC10000412.hg.1 | 2.03 | PSR10004616.hg.1 | DDX50 |
| TC10000412.hg.1 | -2.12 | JUC10002672.hg.1 | DDX50 |
| TC10000412.hg.1 | -3.45 | PSR10004626.hg.1 | DDX50 |
| TC10000813.hg.1 | 2.69 | PSR10009754.hg.1 | ACSL5 |
| TC10000813.hg.1 | 2.35 | JUC10005447.hg.1 | ACSL5 |
| TC10000813.hg.1 | 2.22 | PSR10009753.hg.1 | ACSL5 |
| TC10000813.hg.1 | 2.13 | PSR10009779.hg.1 | ACSL5 |
| TC10000813.hg.1 | -2.07 | PSR10009785.hg.1 | ACSL5 |
| TC10000813.hg.1 | -2.26 | JUC10005451.hg.1 | ACSL5 |
| TC10000820.hg.1 | 2.69 | JUC10005505.hg.1 | TCF7L2 |
| TC10000820.hg.1 | 2.21 | PSR10009847.hg.1 | TCF7L2 |
| TC10000820.hg.1 | 2.05 | PSR10009838.hg.1 | TCF7L2 |
| TC10000820.hg.1 | -2.09 | JUC10005486.hg.1 | TCF7L2 |
| TC10000820.hg.1 | -2.38 | JUC10005491.hg.1 | TCF7L2 |
| TC11002342.hg.1 | 2.69 | PSR11028106.hg.1 | SCN4B |
| TC11002342.hg.1 | 2.33 | JUC11014979.hg.1 | SCN4B |
| TC11002342.hg.1 | 2.12 | PSR11028104.hg.1 | SCN4B |
| TC11002342.hg.1 | -3.05 | JUC11014982.hg.1 | SCN4B |
| TC12000530.hg.1 | 2.69 | PSR12006984.hg.1 | GLI1 |
| TC12000530.hg.1 | -2.32 | JUC12003671.hg.1 | GLI1 |
| TC12000530.hg.1 | -4.99 | JUC12003666.hg.1 | GLI1 |
| TC12002153.hg.1 | 2.69 | JUC12015896.hg.1 | POLE |
| TC12002153.hg.1 | 2.13 | PSR12028211.hg.1 | POLE |
| TC12002153.hg.1 | 2.04 | JUC12015891.hg.1 | POLE |
| TC12002153.hg.1 | -2.15 | JUC12015845.hg.1 | POLE |
| TC12002153.hg.1 | -2.44 | JUC12015873.hg.1 | POLE |
| TC12002153.hg.1 | -2.81 | JUC12015869.hg.1 | POLE |
| TC12002153.hg.1 | -3.11 | JUC12015866.hg.1 | POLE |
| TC13000351.hg.1 | 2.69 | JUC13002275.hg.1 | UBAC2 |
| TC13000351.hg.1 | -2.02 | PSR13003730.hg.1 | UBAC2 |
| TC15001044.hg.1 | 2.69 | JUC15004977.hg.1 | GOLGA8DP |
| TC15001044.hg.1 | 2.63 | JUC15004972.hg.1 | GOLGA8DP |
| TC15001044.hg.1 | 2.33 | PSR15009561.hg.1 | GOLGA8DP |

| | | | |
|-----------------|-------|------------------|----------|
| TC15001044.hg.1 | -2.01 | PSR15009557.hg.1 | GOLGA8DP |
| TC17000533.hg.1 | 2.69 | JUC17003629.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | 2.64 | JUC17003643.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | 2.41 | PSR17006465.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | 2.27 | PSR17006471.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | 2.13 | PSR17006466.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | 2.09 | JUC17003633.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.08 | PSR17006486.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.19 | JUC17003630.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.26 | JUC17003641.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.48 | JUC17003644.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.6 | PSR17006489.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.62 | JUC17003637.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -2.99 | JUC17003634.hg.1 | CNTNAP1 |
| TC17000533.hg.1 | -3.92 | JUC17003628.hg.1 | CNTNAP1 |
| TC17001170.hg.1 | 2.69 | JUC17009075.hg.1 | ZSWIM7 |
| TC17001170.hg.1 | 2.11 | PSR17015823.hg.1 | ZSWIM7 |
| TC17001170.hg.1 | -2.27 | PSR17015833.hg.1 | ZSWIM7 |
| TC18000277.hg.1 | 2.69 | JUC18002197.hg.1 | ENOSF1 |
| TC18000277.hg.1 | 2.33 | JUC18002188.hg.1 | ENOSF1 |
| TC18000277.hg.1 | 2.3 | PSR18003261.hg.1 | ENOSF1 |
| TC18000277.hg.1 | -4.17 | JUC18002192.hg.1 | ENOSF1 |
| TC19000124.hg.1 | 2.69 | JUC19001113.hg.1 | ZNF557 |
| TC19000124.hg.1 | -2.31 | PSR19001887.hg.1 | ZNF557 |
| TC19001013.hg.1 | 2.69 | JUC19007765.hg.1 | ATP8B3 |
| TC19001013.hg.1 | 2.33 | PSR19013830.hg.1 | ATP8B3 |
| TC19001013.hg.1 | 2.23 | JUC19007770.hg.1 | ATP8B3 |
| TC19001013.hg.1 | 2.07 | JUC19007780.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.01 | PSR19013823.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.5 | JUC19007776.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.53 | JUC19007769.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.58 | PSR19013844.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.59 | PSR19013827.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.59 | JUC19007775.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -2.88 | JUC19007753.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -3.04 | PSR19013828.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -3.3 | JUC19007766.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -3.55 | JUC19007777.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -3.71 | PSR19013825.hg.1 | ATP8B3 |
| TC19001013.hg.1 | -5.91 | JUC19007756.hg.1 | ATP8B3 |
| TC20000334.hg.1 | 2.69 | PSR20004727.hg.1 | PKIG |
| TC20000334.hg.1 | 2.69 | PSR20004731.hg.1 | PKIG |
| TC20000334.hg.1 | 2.6 | PSR20004743.hg.1 | PKIG |
| TC20000334.hg.1 | 2.49 | PSR20004736.hg.1 | PKIG |
| TC20000334.hg.1 | 2.42 | JUC20002621.hg.1 | PKIG |
| TC20000334.hg.1 | 2.34 | PSR20004742.hg.1 | PKIG |
| TC20000334.hg.1 | 2.31 | JUC20002618.hg.1 | PKIG |
| TC20000334.hg.1 | 2.29 | PSR20004730.hg.1 | PKIG |
| TC20000334.hg.1 | 2.06 | JUC20002619.hg.1 | PKIG |
| TC21000111.hg.1 | 2.69 | JUC21000409.hg.1 | SOD1 |
| TC21000111.hg.1 | 2.15 | PSR21000699.hg.1 | SOD1 |
| TC21000111.hg.1 | 2.1 | PSR21000689.hg.1 | SOD1 |
| TC01002357.hg.1 | 2.68 | PSR01036387.hg.1 | MYOM3 |
| TC01002357.hg.1 | -2.26 | JUC01019598.hg.1 | MYOM3 |
| TC01002357.hg.1 | -2.74 | JUC01019629.hg.1 | MYOM3 |
| TC01002357.hg.1 | -3.28 | JUC01019631.hg.1 | MYOM3 |
| TC01002357.hg.1 | -3.74 | JUC01019590.hg.1 | MYOM3 |
| TC03001285.hg.1 | 2.68 | JUC03011001.hg.1 | EPM2AIP1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC03001285.hg.1 | -2.16 | PSR03022034.hg.1 | EPM2AIP1 |
| TC05000412.hg.1 | 2.68 | JUC05003231.hg.1 | VCAN |
| TC05000412.hg.1 | 2.57 | JUC05003230.hg.1 | VCAN |
| TC05000412.hg.1 | -2.58 | PSR05005944.hg.1 | VCAN |
| TC05000412.hg.1 | -3.16 | JUC05003240.hg.1 | VCAN |
| TC05000412.hg.1 | -4.54 | JUC05003233.hg.1 | VCAN |
| TC05002123.hg.1 | 2.68 | JUC05015027.hg.1 | COL23A1 |
| TC05002123.hg.1 | 2.39 | JUC05015041.hg.1 | COL23A1 |
| TC05002123.hg.1 | 2.07 | JUC05015066.hg.1 | COL23A1 |
| TC05002123.hg.1 | -2.35 | JUC05015046.hg.1 | COL23A1 |
| TC05002123.hg.1 | -2.38 | PSR05029513.hg.1 | COL23A1 |
| TC07001186.hg.1 | 2.68 | JUC07009110.hg.1 | STEAP1B |
| TC07001186.hg.1 | -2.09 | PSR07018597.hg.1 | STEAP1B |
| TC07001186.hg.1 | -2.46 | JUC07009103.hg.1 | STEAP1B |
| TC09001199.hg.1 | 2.68 | JUC09008222.hg.1 | LOC10050729 |
| TC09001199.hg.1 | 2.51 | JUC09008225.hg.1 | LOC10050729 |
| TC09001199.hg.1 | 2.18 | PSR09015335.hg.1 | LOC10050729 |
| TC11000622.hg.1 | 2.68 | JUC11003999.hg.1 | POLA2 |
| TC11000622.hg.1 | 2.2 | JUC11003993.hg.1 | POLA2 |
| TC11000622.hg.1 | -2.04 | PSR11007733.hg.1 | POLA2 |
| TC11001396.hg.1 | 2.68 | JUC11009406.hg.1 | SCUBE2 |
| TC11001396.hg.1 | 2.36 | JUC11009393.hg.1 | SCUBE2 |
| TC11001396.hg.1 | 2.27 | PSR11017592.hg.1 | SCUBE2 |
| TC11001396.hg.1 | 2.2 | PSR11017598.hg.1 | SCUBE2 |
| TC11001396.hg.1 | -2.05 | PSR11017616.hg.1 | SCUBE2 |
| TC11001396.hg.1 | -2.56 | JUC11009408.hg.1 | SCUBE2 |
| TC11001396.hg.1 | -3.1 | JUC11009411.hg.1 | SCUBE2 |
| TC14002300.hg.1 | 2.68 | JUC14011731.hg.1 | FNTB, CHUR |
| TC14002300.hg.1 | 2.05 | PSR14004554.hg.1 | FNTB, CHUR |
| TC14002300.hg.1 | -2.04 | JUC14011740.hg.1 | FNTB, CHUR |
| TC14002300.hg.1 | -2.51 | JUC14011739.hg.1 | FNTB, CHUR |
| TC01001329.hg.1 | 2.67 | JUC01011120.hg.1 | PEAR1 |
| TC01001329.hg.1 | -2.17 | JUC01011131.hg.1 | PEAR1 |
| TC01001329.hg.1 | -2.73 | PSR01020923.hg.1 | PEAR1 |
| TC01001329.hg.1 | -3.09 | JUC01011123.hg.1 | PEAR1 |
| TC01006322.hg.1 | 2.67 | JUC01043999.hg.1 | TTC4 |
| TC01006322.hg.1 | 2.17 | JUC01044003.hg.1 | TTC4 |
| TC01006322.hg.1 | 2.05 | PSR01010889.hg.1 | TTC4 |
| TC01006322.hg.1 | -2.75 | JUC01044002.hg.1 | TTC4 |
| TC02005056.hg.1 | 2.67 | JUC02033211.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.51 | JUC02033208.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.5 | PSR02044964.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.33 | PSR02044961.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.32 | PSR02044976.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.29 | PSR02044978.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.25 | PSR02044940.hg.1 | ABCB6 |
| TC02005056.hg.1 | 2.11 | PSR02044949.hg.1 | ABCB6 |
| TC02005056.hg.1 | -2.12 | JUC02033207.hg.1 | ABCB6 |
| TC02005056.hg.1 | -2.56 | JUC02033222.hg.1 | ABCB6 |
| TC05000202.hg.1 | 2.67 | JUC05001365.hg.1 | NNT |
| TC05000202.hg.1 | 2.42 | PSR05002409.hg.1 | NNT |
| TC05000202.hg.1 | 2.28 | JUC05001386.hg.1 | NNT |
| TC06004120.hg.1 | 2.67 | JUC06021682.hg.1 | TNXB |
| TC06004120.hg.1 | 2.48 | PSR06018250.hg.1 | TNXB |
| TC06004120.hg.1 | -2.16 | JUC06021652.hg.1 | TNXB |
| TC06004120.hg.1 | -2.48 | PSR06018245.hg.1 | TNXB |
| TC07000498.hg.1 | 2.67 | JUC07003366.hg.1 | PHTF2 |
| TC07000498.hg.1 | -2.11 | PSR07007079.hg.1 | PHTF2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC07000498.hg.1 | -3.2 | JUC07003357.hg.1 | PHTF2 |
| TC0X001323.hg.1 | 2.67 | JUC0X009033.hg.1 | NKAPP1 |
| TC0X001323.hg.1 | 2.05 | PSR0X017749.hg.1 | NKAPP1 |
| TC11000389.hg.1 | 2.67 | JUC11002583.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | 2.61 | JUC11002584.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | 2.53 | PSR11004832.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | 2.07 | PSR11004841.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | 2 | PSR11004831.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | -2.61 | JUC11002587.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | -2.71 | JUC11002581.hg.1 | MAPK8IP1, L |
| TC11000389.hg.1 | -4.11 | PSR11004845.hg.1 | MAPK8IP1, L |
| TC11001389.hg.1 | 2.67 | PSR11017522.hg.1 | ST5 |
| TC11001389.hg.1 | 2.6 | JUC11009348.hg.1 | ST5 |
| TC11001389.hg.1 | -2.33 | JUC11009340.hg.1 | ST5 |
| TC11002030.hg.1 | 2.67 | JUC11012798.hg.1 | SHANK2 |
| TC11002030.hg.1 | 2.15 | JUC11012820.hg.1 | SHANK2 |
| TC11002030.hg.1 | 2.12 | JUC11012819.hg.1 | SHANK2 |
| TC11002030.hg.1 | 2.03 | JUC11012812.hg.1 | SHANK2 |
| TC11002030.hg.1 | 2 | PSR11024309.hg.1 | SHANK2 |
| TC11002030.hg.1 | -2.16 | PSR11024347.hg.1 | SHANK2 |
| TC11002030.hg.1 | -2.26 | PSR11024342.hg.1 | SHANK2 |
| TC13000362.hg.1 | 2.67 | JUC13002376.hg.1 | PCCA |
| TC13000362.hg.1 | -2.08 | PSR13003854.hg.1 | PCCA |
| TC14000627.hg.1 | 2.67 | JUC14003958.hg.1 | CYP46A1 |
| TC14000627.hg.1 | -2.05 | JUC14003957.hg.1 | CYP46A1 |
| TC14000627.hg.1 | -2.42 | PSR14007705.hg.1 | CYP46A1 |
| TC14001310.hg.1 | 2.67 | JUC14007565.hg.1 | KIAA0317 |
| TC14001310.hg.1 | -2.17 | JUC14007569.hg.1 | KIAA0317 |
| TC14001310.hg.1 | -2.28 | JUC14007552.hg.1 | KIAA0317 |
| TC14001310.hg.1 | -2.33 | PSR14014923.hg.1 | KIAA0317 |
| TC14001310.hg.1 | -2.84 | JUC14007545.hg.1 | KIAA0317 |
| TC15000290.hg.1 | 2.67 | JUC15000941.hg.1 | CASC5 |
| TC15000290.hg.1 | 2.05 | PSR15002005.hg.1 | CASC5 |
| TC15000290.hg.1 | -2.12 | JUC15000933.hg.1 | CASC5 |
| TC15000290.hg.1 | -2.26 | JUC15000923.hg.1 | CASC5 |
| TC15000290.hg.1 | -2.31 | PSR15001996.hg.1 | CASC5 |
| TC15000290.hg.1 | -2.35 | PSR15001987.hg.1 | CASC5 |
| TC15000290.hg.1 | -2.46 | JUC15000929.hg.1 | CASC5 |
| TC17000252.hg.1 | 2.67 | JUC17002016.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.56 | JUC17002015.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.48 | JUC17002002.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.4 | PSR17003510.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.27 | PSR17003514.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.18 | PSR17003515.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.17 | PSR17003513.hg.1 | CCDC144C |
| TC17000252.hg.1 | 2.11 | JUC17002004.hg.1 | CCDC144C |
| TC17000252.hg.1 | -2.33 | JUC17002020.hg.1 | CCDC144C |
| TC19000009.hg.1 | 2.67 | JUC19000037.hg.1 | BSG |
| TC19000009.hg.1 | 2.5 | JUC19000040.hg.1 | BSG |
| TC19000009.hg.1 | 2.1 | PSR19000064.hg.1 | BSG |
| TC19000177.hg.1 | 2.67 | JUC19001574.hg.1 | PDE4A |
| TC19000177.hg.1 | 2.07 | PSR19002671.hg.1 | PDE4A |
| TC01000398.hg.1 | 2.66 | JUC01003181.hg.1 | PTPRU |
| TC01000398.hg.1 | 2.14 | JUC01003209.hg.1 | PTPRU |
| TC01000398.hg.1 | 2.11 | PSR01006105.hg.1 | PTPRU |
| TC01000398.hg.1 | 2 | JUC01003185.hg.1 | PTPRU |
| TC01000777.hg.1 | 2.66 | JUC01006508.hg.1 | RABGGTB, S |
| TC01000777.hg.1 | -2.05 | PSR01012423.hg.1 | RABGGTB, S |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01000777.hg.1 | -2.37 | PSR01012392.hg.1 | RABGGTB, S |
| TC01000777.hg.1 | -3.59 | PSR01012394.hg.1 | RABGGTB, S |
| TC02001576.hg.1 | 2.66 | JUC02013221.hg.1 | ROCK2 |
| TC02001576.hg.1 | 2.51 | PSR02025428.hg.1 | ROCK2 |
| TC02001576.hg.1 | 2.33 | PSR02025460.hg.1 | ROCK2 |
| TC02002424.hg.1 | 2.66 | PSR02038045.hg.1 | RBM43 |
| TC02002424.hg.1 | 2.48 | PSR02038048.hg.1 | RBM43 |
| TC02002424.hg.1 | 2.09 | JUC02019764.hg.1 | RBM43 |
| TC02002424.hg.1 | -2.05 | JUC02019766.hg.1 | RBM43 |
| TC03000519.hg.1 | 2.66 | PSR03009671.hg.1 | PCNP |
| TC03000519.hg.1 | -2.88 | JUC03004832.hg.1 | PCNP |
| TC05001873.hg.1 | 2.66 | JUC05013195.hg.1 | FCHSD1 |
| TC05001873.hg.1 | -2.37 | PSR05025848.hg.1 | FCHSD1 |
| TC06001962.hg.1 | 2.66 | PSR06024176.hg.1 | FAXC |
| TC06001962.hg.1 | 2.63 | JUC06011838.hg.1 | FAXC |
| TC06001962.hg.1 | 2.27 | PSR06024161.hg.1 | FAXC |
| TC06001962.hg.1 | 2.25 | PSR06024167.hg.1 | FAXC |
| TC06001962.hg.1 | 2.18 | PSR06024175.hg.1 | FAXC |
| TC06001962.hg.1 | 2.1 | JUC06011836.hg.1 | FAXC |
| TC07001344.hg.1 | 2.66 | JUC07010257.hg.1 | TMED4 |
| TC07001344.hg.1 | 2.11 | PSR07020961.hg.1 | TMED4 |
| TC08000326.hg.1 | 2.66 | JUC08002378.hg.1 | POLB |
| TC08000326.hg.1 | 2.63 | JUC08002383.hg.1 | POLB |
| TC08000326.hg.1 | 2.21 | JUC08002389.hg.1 | POLB |
| TC08000326.hg.1 | 2.14 | PSR08004737.hg.1 | POLB |
| TC08000326.hg.1 | -3.52 | PSR08004719.hg.1 | POLB |
| TC11001017.hg.1 | 2.66 | JUC11006839.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.26 | JUC11006858.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.17 | PSR11012764.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.15 | JUC11006841.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.13 | PSR11012715.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.13 | PSR11012723.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.12 | JUC11006835.hg.1 | TTC12 |
| TC11001017.hg.1 | 2.03 | PSR11012757.hg.1 | TTC12 |
| TC11001017.hg.1 | 2 | PSR11012722.hg.1 | TTC12 |
| TC11001017.hg.1 | -2.28 | JUC11006838.hg.1 | TTC12 |
| TC11001017.hg.1 | -5.34 | PSR11012720.hg.1 | TTC12 |
| TC11002334.hg.1 | 2.66 | PSR11027894.hg.1 | PCSK7 |
| TC11002334.hg.1 | -2.12 | PSR11027910.hg.1 | PCSK7 |
| TC11002334.hg.1 | -3.03 | JUC11014885.hg.1 | PCSK7 |
| TC15000766.hg.1 | 2.66 | JUC15003603.hg.1 | UBE2Q2P2, U |
| TC15000766.hg.1 | 2.32 | PSR15007033.hg.1 | UBE2Q2P2, U |
| TC15000766.hg.1 | -2.76 | JUC15003602.hg.1 | UBE2Q2P2, U |
| TC15000766.hg.1 | -2.8 | PSR15007029.hg.1 | UBE2Q2P2, U |
| TC16000442.hg.1 | 2.66 | JUC16003384.hg.1 | NOD2 |
| TC16000442.hg.1 | 2.32 | JUC16003394.hg.1 | NOD2 |
| TC16000442.hg.1 | 2.13 | JUC16003386.hg.1 | NOD2 |
| TC16000442.hg.1 | 2 | PSR16006117.hg.1 | NOD2 |
| TC02001115.hg.1 | 2.65 | PSR02016864.hg.1 | C2orf88 |
| TC02001115.hg.1 | 2.03 | PSR02016868.hg.1 | C2orf88 |
| TC02001115.hg.1 | -2.7 | PSR02016862.hg.1 | C2orf88 |
| TC02001115.hg.1 | -3.14 | PSR02016845.hg.1 | C2orf88 |
| TC02001115.hg.1 | -3.77 | PSR02016844.hg.1 | C2orf88 |
| TC02001115.hg.1 | -3.94 | PSR02016855.hg.1 | C2orf88 |
| TC02001115.hg.1 | -4.26 | PSR02016848.hg.1 | C2orf88 |
| TC02001115.hg.1 | -4.42 | PSR02016843.hg.1 | C2orf88 |
| TC02001115.hg.1 | -4.43 | PSR02016851.hg.1 | C2orf88 |
| TC02001115.hg.1 | -4.74 | PSR02016858.hg.1 | C2orf88 |

| | | | |
|-----------------|-------|------------------|---------|
| TC02001115.hg.1 | -5.09 | JUC02009032.hg.1 | C2orf88 |
| TC02001115.hg.1 | -5.16 | PSR02016849.hg.1 | C2orf88 |
| TC02001419.hg.1 | 2.65 | PSR02022671.hg.1 | DGKD |
| TC02001419.hg.1 | 2.49 | JUC02011903.hg.1 | DGKD |
| TC02001419.hg.1 | 2.42 | PSR02022630.hg.1 | DGKD |
| TC02001419.hg.1 | 2.17 | PSR02022626.hg.1 | DGKD |
| TC02001419.hg.1 | 2.13 | PSR02022663.hg.1 | DGKD |
| TC02001419.hg.1 | 2.07 | PSR02022624.hg.1 | DGKD |
| TC02001419.hg.1 | -2.01 | JUC02011911.hg.1 | DGKD |
| TC02001419.hg.1 | -2.22 | PSR02022640.hg.1 | DGKD |
| TC02001419.hg.1 | -2.71 | JUC02011915.hg.1 | DGKD |
| TC02001419.hg.1 | -2.83 | JUC02011909.hg.1 | DGKD |
| TC02002808.hg.1 | 2.65 | JUC02023679.hg.1 | EPHA4 |
| TC02002808.hg.1 | 2.31 | JUC02023687.hg.1 | EPHA4 |
| TC02002808.hg.1 | 2.07 | JUC02023674.hg.1 | EPHA4 |
| TC02002808.hg.1 | -2.08 | JUC02023697.hg.1 | EPHA4 |
| TC02002808.hg.1 | -2.13 | PSR02045378.hg.1 | EPHA4 |
| TC02002808.hg.1 | -2.28 | PSR02045373.hg.1 | EPHA4 |
| TC02002808.hg.1 | -2.97 | PSR02045385.hg.1 | EPHA4 |
| TC02002808.hg.1 | -3.03 | JUC02023691.hg.1 | EPHA4 |
| TC02002808.hg.1 | -3.06 | JUC02023689.hg.1 | EPHA4 |
| TC02002808.hg.1 | -3.36 | PSR02045366.hg.1 | EPHA4 |
| TC02002808.hg.1 | -3.43 | PSR02045344.hg.1 | EPHA4 |
| TC03000543.hg.1 | 2.65 | JUC03004969.hg.1 | BBX |
| TC03000543.hg.1 | 2.63 | PSR03009934.hg.1 | BBX |
| TC03000543.hg.1 | 2.17 | JUC03004940.hg.1 | BBX |
| TC03000543.hg.1 | 2.15 | PSR03009933.hg.1 | BBX |
| TC03000543.hg.1 | 2.04 | PSR03009932.hg.1 | BBX |
| TC03001928.hg.1 | 2.65 | JUC03017108.hg.1 | C3orf33 |
| TC03001928.hg.1 | 2.23 | JUC03017110.hg.1 | C3orf33 |
| TC03001928.hg.1 | -2.85 | PSR03034559.hg.1 | C3orf33 |
| TC07000789.hg.1 | 2.65 | PSR07012473.hg.1 | IRF5 |
| TC07000789.hg.1 | 2.14 | JUC07005886.hg.1 | IRF5 |
| TC07000789.hg.1 | 2.07 | PSR07012477.hg.1 | IRF5 |
| TC07001405.hg.1 | 2.65 | JUC07010711.hg.1 | 14-Sep |
| TC07001405.hg.1 | -2.05 | PSR07021792.hg.1 | 14-Sep |
| TC08000125.hg.1 | 2.65 | JUC08000601.hg.1 | ZDHHC2 |
| TC08000125.hg.1 | 2.2 | PSR08001128.hg.1 | ZDHHC2 |
| TC08000125.hg.1 | -3.12 | JUC08000610.hg.1 | ZDHHC2 |
| TC09001686.hg.1 | 2.65 | JUC09011597.hg.1 | MED22 |
| TC09001686.hg.1 | 2.15 | PSR09021605.hg.1 | MED22 |
| TC0X000628.hg.1 | 2.65 | JUC0X004197.hg.1 | MST4 |
| TC0X000628.hg.1 | 2.43 | PSR0X008291.hg.1 | MST4 |
| TC0X000628.hg.1 | 2.38 | PSR0X008292.hg.1 | MST4 |
| TC0X000628.hg.1 | 2.38 | JUC0X004191.hg.1 | MST4 |
| TC0X000628.hg.1 | 2.31 | PSR0X008299.hg.1 | MST4 |
| TC0X000628.hg.1 | -2 | JUC0X004186.hg.1 | MST4 |
| TC12003234.hg.1 | 2.65 | JUC12019815.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.6 | PSR12001673.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.37 | JUC12019807.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.33 | PSR12001670.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.28 | PSR12001676.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.26 | PSR12001672.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.12 | PSR12001671.hg.1 | FAM66C |
| TC12003234.hg.1 | 2.07 | PSR12001647.hg.1 | FAM66C |
| TC12003234.hg.1 | -2.01 | PSR12001659.hg.1 | FAM66C |
| TC15000306.hg.1 | 2.65 | JUC15001044.hg.1 | NUSAP1 |
| TC15000306.hg.1 | 2.47 | PSR15002208.hg.1 | NUSAP1 |

| | | | |
|------------------|-------|-------------------|-----------|
| TC15000306.hg.1 | 2.21 | PSR15002222.hg.1 | NUSAP1 |
| TC15000306.hg.1 | 2.13 | JUC15001043.hg.1 | NUSAP1 |
| TC15000306.hg.1 | -2.54 | JUC15001054.hg.1 | NUSAP1 |
| TC15001274.hg.1 | 2.65 | JUC15006412.hg.1 | TGM5 |
| TC15001274.hg.1 | 2.14 | JUC15006418.hg.1 | TGM5 |
| TC15001274.hg.1 | -2.71 | PSR15011830.hg.1 | TGM5 |
| TC6_apd_hap1000 | 2.65 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | 2.58 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | 2.25 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | 2.1 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | 2.05 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | 2.02 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | -2.25 | JUC6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | -2.64 | JUC6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | -4.42 | JUC6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | -5.03 | PSR6_apd_hap1000 | HLA-A |
| TC6_apd_hap1000 | 2.65 | PSR6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | 2.34 | PSR6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | 2.26 | PSR6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | 2.23 | PSR6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | 2.01 | PSR6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | -2.11 | JUC6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | -2.24 | JUC6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | -2.33 | PSR6_apd_hap1000 | ZNRD1-AS1 |
| TC6_apd_hap1000 | -3.71 | JUC6_apd_hap1000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | 2.65 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | 2.58 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | 2.25 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | 2.1 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | 2.05 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | 2.02 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | -2.25 | JUC6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | -2.64 | JUC6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | -4.42 | JUC6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | -5.03 | PSR6_cox_hap2000 | HLA-A |
| TC6_cox_hap2000 | 2.65 | PSR6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | 2.34 | PSR6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | 2.26 | PSR6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | 2.23 | PSR6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | 2.01 | PSR6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | -2.11 | JUC6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | -2.24 | JUC6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | -2.33 | PSR6_cox_hap2000 | ZNRD1-AS1 |
| TC6_cox_hap2000 | -3.71 | JUC6_cox_hap2000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | 2.65 | PSR6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | 2.34 | PSR6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | 2.26 | PSR6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | 2.23 | PSR6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | 2.01 | PSR6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | -2.11 | JUC6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | -2.24 | JUC6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | -2.33 | PSR6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_dbb_hap3000 | -3.71 | JUC6_dbb_hap3000 | ZNRD1-AS1 |
| TC6_mann_hap4000 | 2.65 | PSR6_mann_hap4000 | ZNRD1-AS1 |
| TC6_mann_hap4000 | 2.47 | PSR6_mann_hap4000 | ZNRD1-AS1 |
| TC6_mann_hap4000 | 2.26 | PSR6_mann_hap4000 | ZNRD1-AS1 |
| TC6_mann_hap4000 | 2.26 | PSR6_mann_hap4000 | ZNRD1-AS1 |
| TC6_mann_hap4000 | 2.01 | PSR6_mann_hap4000 | ZNRD1-AS1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC6_mann_hap400 | -2.11 | JUC6_mann_hap400 | ZNRD1-AS1 |
| TC6_mann_hap400 | -2.33 | PSR6_mann_hap400 | ZNRD1-AS1 |
| TC6_mann_hap400 | -3.71 | JUC6_mann_hap400 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | 2.65 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | 2.26 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | 2.23 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | 2.11 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | 2.1 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | 2.01 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | -2.11 | JUC6_mcf_hap5000 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | -2.33 | PSR6_mcf_hap5001 | ZNRD1-AS1 |
| TC6_mcf_hap5000 | -3.71 | JUC6_mcf_hap5000 | ZNRD1-AS1 |
| TC05000830.hg.1 | 2.65 | JUC05006235.hg.1 | TCOF1 |
| TC05000830.hg.1 | 2.12 | JUC05006216.hg.1 | TCOF1 |
| TC05000830.hg.1 | 2 | PSR05011912.hg.1 | TCOF1 |
| TC05000830.hg.1 | -2.21 | JUC05006217.hg.1 | TCOF1 |
| TC05000830.hg.1 | -2.25 | JUC05006199.hg.1 | TCOF1 |
| TC05000830.hg.1 | -2.71 | JUC05006226.hg.1 | TCOF1 |
| TC01001688.hg.1 | 2.64 | JUC01014045.hg.1 | ATP2B4 |
| TC01001688.hg.1 | 2.1 | PSR01026233.hg.1 | ATP2B4 |
| TC01001688.hg.1 | 2.01 | PSR01026239.hg.1 | ATP2B4 |
| TC01001688.hg.1 | -2.05 | JUC01014035.hg.1 | ATP2B4 |
| TC01002577.hg.1 | 2.64 | PSR01040052.hg.1 | |
| TC01002577.hg.1 | 2.27 | JUC01021505.hg.1 | |
| TC01002577.hg.1 | 2.19 | PSR01040046.hg.1 | |
| TC01002577.hg.1 | 2.15 | JUC01021504.hg.1 | |
| TC01002577.hg.1 | 2.08 | PSR01040048.hg.1 | |
| TC01002710.hg.1 | 2.64 | JUC01022735.hg.1 | |
| TC01002710.hg.1 | -2.2 | PSR01042593.hg.1 | |
| TC02001004.hg.1 | 2.64 | JUC02007848.hg.1 | PPIG |
| TC02001004.hg.1 | 2.4 | JUC02007856.hg.1 | PPIG |
| TC02001004.hg.1 | 2.08 | PSR02014714.hg.1 | PPIG |
| TC02001004.hg.1 | 2.06 | JUC02007858.hg.1 | PPIG |
| TC02001004.hg.1 | -3.17 | JUC02007845.hg.1 | PPIG |
| TC04000649.hg.1 | 2.64 | JUC04005055.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.07 | PSR04009455.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.15 | PSR04009439.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.31 | JUC04005066.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.49 | PSR04009441.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.65 | PSR04009438.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.77 | PSR04009450.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -2.8 | PSR04009437.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -3.79 | PSR04009436.hg.1 | LOC1005074 |
| TC04000649.hg.1 | -4.13 | JUC04005059.hg.1 | LOC1005074 |
| TC0X000118.hg.1 | 2.64 | PSR0X001593.hg.1 | PDK3 |
| TC0X000118.hg.1 | -4.4 | JUC0X000867.hg.1 | PDK3 |
| TC0X000494.hg.1 | 2.64 | PSR0X006563.hg.1 | TCEAL7 |
| TC0X000494.hg.1 | -2.89 | JUC0X003237.hg.1 | TCEAL7 |
| TC11002345.hg.1 | 2.64 | JUC11015010.hg.1 | MPZL3 |
| TC11002345.hg.1 | 2.04 | PSR11028152.hg.1 | MPZL3 |
| TC12001040.hg.1 | 2.64 | JUC12007493.hg.1 | GPR133 |
| TC12001040.hg.1 | -2.31 | JUC12007484.hg.1 | GPR133 |
| TC12001040.hg.1 | -2.37 | PSR12013660.hg.1 | GPR133 |
| TC12001040.hg.1 | -2.37 | JUC12007500.hg.1 | GPR133 |
| TC12001040.hg.1 | -2.47 | JUC12007503.hg.1 | GPR133 |
| TC12001040.hg.1 | -2.78 | PSR12013662.hg.1 | GPR133 |
| TC12001040.hg.1 | -3.15 | PSR12013664.hg.1 | GPR133 |
| TC14000219.hg.1 | 2.64 | PSR14002347.hg.1 | SRP54 |

| | | | |
|------------------|-------|-------------------|--------------|
| TC14000219.hg.1 | 2.44 | PSR14002325.hg.1 | SRP54 |
| TC14000219.hg.1 | 2.18 | JUC14001059.hg.1 | SRP54 |
| TC14000219.hg.1 | 2.03 | PSR14002324.hg.1 | SRP54 |
| TC14000219.hg.1 | -2.15 | JUC14001065.hg.1 | SRP54 |
| TC14000358.hg.1 | 2.64 | JUC14001966.hg.1 | JKAMP |
| TC14000358.hg.1 | 2.44 | PSR14003902.hg.1 | JKAMP |
| TC14000358.hg.1 | 2.06 | JUC14001958.hg.1 | JKAMP |
| TC14000358.hg.1 | -2.15 | PSR14003921.hg.1 | JKAMP |
| TC17000601.hg.1 | 2.64 | JUC17004166.hg.1 | WNT9B |
| TC17000601.hg.1 | 2.33 | PSR17007371.hg.1 | WNT9B |
| TC17000601.hg.1 | 2.22 | PSR17007369.hg.1 | WNT9B |
| TC17000601.hg.1 | 2.08 | PSR17007367.hg.1 | WNT9B |
| TC18000223.hg.1 | 2.64 | JUC18001762.hg.1 | ZCCHC2 |
| TC18000223.hg.1 | 2.16 | PSR18002555.hg.1 | ZCCHC2 |
| TC19000087.hg.1 | 2.64 | JUC19000793.hg.1 | MPND |
| TC19000087.hg.1 | -2.01 | PSR19001395.hg.1 | MPND |
| TC19000087.hg.1 | -2.38 | JUC19000798.hg.1 | MPND |
| TC21000097.hg.1 | 2.64 | PSR21000592.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2.64 | PSR21000619.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2.42 | JUC21000380.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2.38 | PSR21000622.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2.17 | JUC21000375.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2.07 | PSR21000596.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2.06 | JUC21000389.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | 2 | PSR21000594.hg.1 | GRIK1-AS2, E |
| TC21000097.hg.1 | -3.03 | JUC21000377.hg.1 | GRIK1-AS2, E |
| TC22001476.hg.1 | 2.64 | PSR22006894.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2.48 | JUC22009452.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2.43 | PSR22006892.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2.41 | JUC22009441.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2.04 | PSR22006899.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2.02 | PSR22006918.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2.02 | PSR22006920.hg.1 | SERHL2 |
| TC22001476.hg.1 | 2 | PSR22006919.hg.1 | SERHL2 |
| TC22001476.hg.1 | -2.19 | JUC22009448.hg.1 | SERHL2 |
| TC22001476.hg.1 | -2.45 | JUC22009443.hg.1 | SERHL2 |
| TC22001476.hg.1 | -2.71 | PSR22006907.hg.1 | SERHL2 |
| TC6_ssto_hap7000 | 2.64 | PSR6_ssto_hap7002 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | 2.33 | PSR6_ssto_hap7001 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | 2.25 | PSR6_ssto_hap7001 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | 2.23 | PSR6_ssto_hap7001 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | 2 | PSR6_ssto_hap7001 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | -2.12 | JUC6_ssto_hap7000 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | -2.25 | JUC6_ssto_hap7000 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | -2.34 | PSR6_ssto_hap7001 | ZNRD1-AS1 |
| TC6_ssto_hap7000 | -3.72 | JUC6_ssto_hap7000 | ZNRD1-AS1 |
| TC01003341.hg.1 | 2.64 | JUC01027308.hg.1 | MEF2D |
| TC01003341.hg.1 | 2.53 | JUC01027305.hg.1 | MEF2D |
| TC01003341.hg.1 | 2 | PSR01052183.hg.1 | MEF2D |
| TC01001095.hg.1 | 2.63 | JUC01008793.hg.1 | ITGA10 |
| TC01001095.hg.1 | 2.07 | JUC01008791.hg.1 | ITGA10 |
| TC01001095.hg.1 | -2.02 | JUC01008797.hg.1 | ITGA10 |
| TC01001095.hg.1 | -2.2 | JUC01008799.hg.1 | ITGA10 |
| TC01001095.hg.1 | -2.4 | JUC01008790.hg.1 | ITGA10 |
| TC01001095.hg.1 | -2.68 | JUC01008798.hg.1 | ITGA10 |
| TC01001095.hg.1 | -2.7 | JUC01008819.hg.1 | ITGA10 |
| TC01001095.hg.1 | -3.25 | JUC01008818.hg.1 | ITGA10 |
| TC01001095.hg.1 | -3.66 | PSR01017234.hg.1 | ITGA10 |

| | | | |
|-----------------|-------|------------------|------------|
| TC01001095.hg.1 | -4.71 | JUC01008789.hg.1 | ITGA10 |
| TC01001095.hg.1 | -6.3 | PSR01017274.hg.1 | ITGA10 |
| TC01001095.hg.1 | -6.39 | JUC01008817.hg.1 | ITGA10 |
| TC02000662.hg.1 | 2.63 | PSR02010269.hg.1 | SULT1C3 |
| TC02000662.hg.1 | 2.44 | JUC02005425.hg.1 | SULT1C3 |
| TC03000134.hg.1 | 2.63 | JUC03001352.hg.1 | OXSM |
| TC03000134.hg.1 | -2.04 | PSR03002536.hg.1 | OXSM |
| TC03000134.hg.1 | -3.09 | PSR03002535.hg.1 | OXSM |
| TC03000134.hg.1 | -3.96 | PSR03002527.hg.1 | OXSM |
| TC03000594.hg.1 | 2.63 | JUC03005406.hg.1 | |
| TC03000594.hg.1 | 2.21 | PSR03010837.hg.1 | |
| TC03000594.hg.1 | 2.11 | JUC03005405.hg.1 | |
| TC03000594.hg.1 | 2.02 | PSR03010835.hg.1 | |
| TC03000594.hg.1 | -2.03 | JUC03005407.hg.1 | |
| TC03001047.hg.1 | 2.63 | JUC03009395.hg.1 | IL1RAP |
| TC03001047.hg.1 | -2.1 | JUC03009396.hg.1 | IL1RAP |
| TC03001047.hg.1 | -2.38 | PSR03018532.hg.1 | IL1RAP |
| TC04001272.hg.1 | 2.63 | JUC04009261.hg.1 | GRSF1 |
| TC04001272.hg.1 | 2.15 | PSR04017353.hg.1 | GRSF1 |
| TC04002916.hg.1 | 2.63 | JUC04016870.hg.1 | TLR1 |
| TC04002916.hg.1 | 2.31 | PSR04015312.hg.1 | TLR1 |
| TC05001261.hg.1 | 2.63 | JUC05009029.hg.1 | PRLR |
| TC05001261.hg.1 | 2.45 | JUC05009033.hg.1 | PRLR |
| TC05001261.hg.1 | 2.06 | PSR05017652.hg.1 | PRLR |
| TC05001261.hg.1 | 2.05 | JUC05009042.hg.1 | PRLR |
| TC05001261.hg.1 | -2.11 | PSR05017642.hg.1 | PRLR |
| TC05001261.hg.1 | -2.13 | PSR05017634.hg.1 | PRLR |
| TC05001261.hg.1 | -2.14 | PSR05017668.hg.1 | PRLR |
| TC05001261.hg.1 | -2.28 | PSR05017663.hg.1 | PRLR |
| TC05001261.hg.1 | -2.42 | PSR05017671.hg.1 | PRLR |
| TC05001261.hg.1 | -3.37 | JUC05009041.hg.1 | PRLR |
| TC05001824.hg.1 | 2.63 | JUC05012729.hg.1 | NME5 |
| TC05001824.hg.1 | 2.23 | PSR05024808.hg.1 | NME5 |
| TC05001824.hg.1 | 2.23 | JUC05012732.hg.1 | NME5 |
| TC05001824.hg.1 | 2.1 | JUC05012733.hg.1 | NME5 |
| TC05001824.hg.1 | 2.03 | JUC05012734.hg.1 | NME5 |
| TC05001824.hg.1 | -2 | PSR05024805.hg.1 | NME5 |
| TC05001824.hg.1 | -2.01 | PSR05024814.hg.1 | NME5 |
| TC05001824.hg.1 | -2.81 | PSR05024811.hg.1 | NME5 |
| TC08001264.hg.1 | 2.63 | JUC08008403.hg.1 | ASPH |
| TC08001264.hg.1 | 2.54 | JUC08008389.hg.1 | ASPH |
| TC08001264.hg.1 | 2.43 | PSR08016314.hg.1 | ASPH |
| TC08001264.hg.1 | 2.3 | PSR08016260.hg.1 | ASPH |
| TC08001264.hg.1 | 2.23 | JUC08008367.hg.1 | ASPH |
| TC08001264.hg.1 | 2.09 | PSR08016272.hg.1 | ASPH |
| TC08001264.hg.1 | 2.03 | JUC08008364.hg.1 | ASPH |
| TC08001264.hg.1 | -2.28 | JUC08008394.hg.1 | ASPH |
| TC08002596.hg.1 | 2.63 | PSR08000977.hg.1 | LOC1005069 |
| TC08002596.hg.1 | 2.29 | PSR08000974.hg.1 | LOC1005069 |
| TC08002596.hg.1 | 2.29 | PSR08000986.hg.1 | LOC1005069 |
| TC08002596.hg.1 | -2.01 | JUC08014944.hg.1 | LOC1005069 |
| TC09001517.hg.1 | 2.63 | PSR09019044.hg.1 | TNC |
| TC09001517.hg.1 | -2.21 | PSR09019026.hg.1 | TNC |
| TC09001517.hg.1 | -2.45 | JUC09010277.hg.1 | TNC |
| TC09001517.hg.1 | -2.52 | PSR09019022.hg.1 | TNC |
| TC09001517.hg.1 | -2.64 | JUC09010282.hg.1 | TNC |
| TC09001517.hg.1 | -2.64 | JUC09010289.hg.1 | TNC |
| TC09001517.hg.1 | -3.04 | PSR09019016.hg.1 | TNC |

| | | | |
|-----------------|--------|------------------|----------|
| TC09001517.hg.1 | -3.16 | JUC09010302.hg.1 | TNC |
| TC09001517.hg.1 | -3.18 | JUC09010298.hg.1 | TNC |
| TC09001517.hg.1 | -3.21 | PSR09019046.hg.1 | TNC |
| TC09001517.hg.1 | -3.24 | PSR09019023.hg.1 | TNC |
| TC09001517.hg.1 | -3.27 | JUC09010316.hg.1 | TNC |
| TC09001517.hg.1 | -3.28 | PSR09019017.hg.1 | TNC |
| TC09001517.hg.1 | -3.64 | JUC09010283.hg.1 | TNC |
| TC09001517.hg.1 | -3.86 | JUC09010276.hg.1 | TNC |
| TC09001517.hg.1 | -4.89 | JUC09010278.hg.1 | TNC |
| TC09001517.hg.1 | -5.24 | JUC09010292.hg.1 | TNC |
| TC09001676.hg.1 | 2.63 | JUC09011509.hg.1 | AK8 |
| TC09001676.hg.1 | 2.45 | JUC09011518.hg.1 | AK8 |
| TC09001676.hg.1 | -2.18 | PSR09021398.hg.1 | AK8 |
| TC10000621.hg.1 | 2.63 | JUC10003870.hg.1 | PAPSS2 |
| TC10000621.hg.1 | 2.15 | PSR10006802.hg.1 | PAPSS2 |
| TC10000732.hg.1 | 2.63 | JUC10004813.hg.1 | KAZALD1 |
| TC10000732.hg.1 | -2.02 | PSR10008641.hg.1 | KAZALD1 |
| TC15002812.hg.1 | 2.63 | PSR15012026.hg.1 | STRC |
| TC15002812.hg.1 | 2.54 | JUC15014291.hg.1 | STRC |
| TC15002812.hg.1 | -2.67 | JUC15014280.hg.1 | STRC |
| TC16000991.hg.1 | 2.63 | PSR16014293.hg.1 | SULT1A1 |
| TC16000991.hg.1 | 2.42 | PSR16014294.hg.1 | SULT1A1 |
| TC16000991.hg.1 | 2.24 | PSR16014289.hg.1 | SULT1A1 |
| TC16000991.hg.1 | -2.2 | PSR16014282.hg.1 | SULT1A1 |
| TC16000991.hg.1 | -2.97 | JUC16008049.hg.1 | SULT1A1 |
| TC16000991.hg.1 | -3.64 | JUC16008040.hg.1 | SULT1A1 |
| TC16000991.hg.1 | -3.97 | PSR16014284.hg.1 | SULT1A1 |
| TC16000991.hg.1 | -4.51 | JUC16008050.hg.1 | SULT1A1 |
| TC16000991.hg.1 | -13.49 | JUC16008048.hg.1 | SULT1A1 |
| TC20000083.hg.1 | 2.63 | JUC20000614.hg.1 | C20orf94 |
| TC20000083.hg.1 | 2.3 | JUC20000620.hg.1 | C20orf94 |
| TC20000083.hg.1 | 2.11 | PSR20001189.hg.1 | C20orf94 |
| TC21000508.hg.1 | 2.63 | JUC21003184.hg.1 | HSF2BP |
| TC21000508.hg.1 | 2.07 | PSR21006141.hg.1 | HSF2BP |
| TC21000508.hg.1 | -2.15 | PSR21006144.hg.1 | HSF2BP |
| TC21000508.hg.1 | -3.3 | JUC21003181.hg.1 | HSF2BP |
| TC22000221.hg.1 | 2.63 | PSR22004151.hg.1 | SMTN |
| TC22000221.hg.1 | 2.61 | JUC22001474.hg.1 | SMTN |
| TC22000221.hg.1 | 2.49 | PSR22004129.hg.1 | SMTN |
| TC22000221.hg.1 | 2.23 | JUC22001465.hg.1 | SMTN |
| TC22000221.hg.1 | 2.2 | JUC22001454.hg.1 | SMTN |
| TC22000221.hg.1 | 2.16 | JUC22001444.hg.1 | SMTN |
| TC22000221.hg.1 | 2.11 | PSR22004188.hg.1 | SMTN |
| TC22000221.hg.1 | 2.11 | JUC22001462.hg.1 | SMTN |
| TC22000221.hg.1 | 2.09 | JUC22001463.hg.1 | SMTN |
| TC22000221.hg.1 | 2.07 | PSR22004149.hg.1 | SMTN |
| TC22000221.hg.1 | 2.03 | PSR22004150.hg.1 | SMTN |
| TC12001324.hg.1 | 2.63 | JUC12009562.hg.1 | BHLHE41 |
| TC12001324.hg.1 | 2 | PSR12017331.hg.1 | BHLHE41 |
| TC12001324.hg.1 | -3.49 | JUC12009563.hg.1 | BHLHE41 |
| TC01002304.hg.1 | 2.62 | JUC01018974.hg.1 | TMCO4 |
| TC01002304.hg.1 | -2.18 | JUC01018972.hg.1 | TMCO4 |
| TC01002304.hg.1 | -2.2 | JUC01018960.hg.1 | TMCO4 |
| TC01002304.hg.1 | -2.49 | JUC01018970.hg.1 | TMCO4 |
| TC01002304.hg.1 | -3.07 | PSR01035308.hg.1 | TMCO4 |
| TC01002304.hg.1 | -4.32 | JUC01018983.hg.1 | TMCO4 |
| TC02001239.hg.1 | 2.62 | JUC02010252.hg.1 | UNC80 |
| TC02001239.hg.1 | 2.37 | JUC02010219.hg.1 | UNC80 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC02001239.hg.1 | 2.07 | JUC02010256.hg.1 | UNC80 |
| TC02001239.hg.1 | -2.33 | PSR02019086.hg.1 | UNC80 |
| TC02001239.hg.1 | -2.33 | JUC02010243.hg.1 | UNC80 |
| TC02001239.hg.1 | -3.47 | JUC02010222.hg.1 | UNC80 |
| TC02001239.hg.1 | -4.49 | JUC02010237.hg.1 | UNC80 |
| TC03003412.hg.1 | 2.62 | JUC03024602.hg.1 | NAT6 |
| TC03003412.hg.1 | 2.31 | PSR03025635.hg.1 | NAT6 |
| TC03003412.hg.1 | 2.12 | PSR03025644.hg.1 | NAT6 |
| TC03003412.hg.1 | 2.03 | PSR03025628.hg.1 | NAT6 |
| TC05000392.hg.1 | 2.62 | JUC05002999.hg.1 | CMYA5 |
| TC05000392.hg.1 | 2.4 | PSR05005548.hg.1 | CMYA5 |
| TC05000392.hg.1 | 2.28 | PSR05005539.hg.1 | CMYA5 |
| TC05000392.hg.1 | 2 | PSR05005550.hg.1 | CMYA5 |
| TC06000524.hg.1 | 2.62 | PSR06005647.hg.1 | MAPK13 |
| TC06000524.hg.1 | -2.01 | JUC06002301.hg.1 | MAPK13 |
| TC07001305.hg.1 | 2.62 | PSR07020284.hg.1 | VPS41 |
| TC07001305.hg.1 | 2.46 | PSR07020295.hg.1 | VPS41 |
| TC07001305.hg.1 | 2.44 | PSR07020292.hg.1 | VPS41 |
| TC07001305.hg.1 | 2.21 | PSR07020294.hg.1 | VPS41 |
| TC07001305.hg.1 | 2.06 | PSR07020232.hg.1 | VPS41 |
| TC07001305.hg.1 | 2.06 | JUC07009940.hg.1 | VPS41 |
| TC07001305.hg.1 | -2.28 | JUC07009946.hg.1 | VPS41 |
| TC08000225.hg.1 | 2.62 | JUC08001613.hg.1 | HMBOX1 |
| TC08000225.hg.1 | 2.13 | JUC08001597.hg.1 | HMBOX1 |
| TC08000225.hg.1 | -2.19 | PSR08003285.hg.1 | HMBOX1 |
| TC08000225.hg.1 | -2.38 | JUC08001603.hg.1 | HMBOX1 |
| TC08000750.hg.1 | 2.62 | JUC08005184.hg.1 | MIR1204, PV |
| TC08000750.hg.1 | 2.16 | JUC08005186.hg.1 | MIR1204, PV |
| TC08000750.hg.1 | 2.03 | PSR08010112.hg.1 | MIR1204, PV |
| TC08000750.hg.1 | 2 | JUC08005196.hg.1 | MIR1204, PV |
| TC08001423.hg.1 | 2.62 | PSR08018463.hg.1 | TRIQQ |
| TC08001423.hg.1 | 2.16 | JUC08009396.hg.1 | TRIQQ |
| TC08001423.hg.1 | 2.07 | PSR08018464.hg.1 | TRIQQ |
| TC08001423.hg.1 | -2.02 | JUC08009399.hg.1 | TRIQQ |
| TC08001423.hg.1 | -2.36 | JUC08009381.hg.1 | TRIQQ |
| TC11001185.hg.1 | 2.62 | JUC11008073.hg.1 | FLI1 |
| TC11001185.hg.1 | 2.61 | JUC11008071.hg.1 | FLI1 |
| TC11001185.hg.1 | 2.26 | JUC11008070.hg.1 | FLI1 |
| TC11001185.hg.1 | 2.23 | PSR11014932.hg.1 | FLI1 |
| TC15000780.hg.1 | 2.62 | JUC15003715.hg.1 | UBE2Q2P2 |
| TC15000780.hg.1 | 2.28 | PSR15007168.hg.1 | UBE2Q2P2 |
| TC15000780.hg.1 | -2.8 | JUC15003714.hg.1 | UBE2Q2P2 |
| TC15000780.hg.1 | -2.84 | PSR15007164.hg.1 | UBE2Q2P2 |
| TC15001308.hg.1 | 2.62 | PSR15012568.hg.1 | SHF |
| TC15001308.hg.1 | 2.48 | JUC15006662.hg.1 | SHF |
| TC15001308.hg.1 | 2.22 | PSR15012566.hg.1 | SHF |
| TC18000263.hg.1 | 2.62 | JUC18002084.hg.1 | NFATC1 |
| TC18000263.hg.1 | 2.34 | PSR18003093.hg.1 | NFATC1 |
| TC18000263.hg.1 | -2.31 | PSR18003096.hg.1 | NFATC1 |
| TC19001761.hg.1 | 2.62 | JUC19013611.hg.1 | KLK4 |
| TC19001761.hg.1 | -2.13 | PSR19023943.hg.1 | KLK4 |
| TC19001761.hg.1 | -2.47 | PSR19023935.hg.1 | KLK4 |
| TC19001761.hg.1 | -3.29 | PSR19023948.hg.1 | KLK4 |
| TC19001761.hg.1 | -3.51 | JUC19013603.hg.1 | KLK4 |
| TC21000345.hg.1 | 2.62 | JUC21002097.hg.1 | ADAMTS1 |
| TC21000345.hg.1 | -2.23 | PSR21003915.hg.1 | ADAMTS1 |
| TC01000895.hg.1 | 2.61 | JUC01007416.hg.1 | AGL |
| TC01000895.hg.1 | 2.13 | JUC01007427.hg.1 | AGL |

| | | | |
|-----------------|-------|------------------|------------|
| TC01000895.hg.1 | 2.05 | PSR01014081.hg.1 | AGL |
| TC01002509.hg.1 | 2.61 | JUC01020921.hg.1 | OSCP1 |
| TC01002509.hg.1 | 2.38 | JUC01020930.hg.1 | OSCP1 |
| TC01002509.hg.1 | 2.28 | JUC01020920.hg.1 | OSCP1 |
| TC01002509.hg.1 | -2.18 | PSR01038950.hg.1 | OSCP1 |
| TC01002509.hg.1 | -3.09 | JUC01020926.hg.1 | OSCP1 |
| TC03000339.hg.1 | 2.61 | JUC03003631.hg.1 | GNL3, SNOR |
| TC03000339.hg.1 | 2.04 | PSR03007506.hg.1 | GNL3, SNOR |
| TC03000339.hg.1 | -2 | JUC03003635.hg.1 | GNL3, SNOR |
| TC04002928.hg.1 | 2.61 | PSR04002235.hg.1 | FAM200B |
| TC04002928.hg.1 | 2.61 | JUC04017018.hg.1 | FAM200B |
| TC04002928.hg.1 | 2.26 | PSR04002250.hg.1 | FAM200B |
| TC05000281.hg.1 | 2.61 | JUC05001945.hg.1 | SREK1 |
| TC05000281.hg.1 | 2.56 | JUC05001943.hg.1 | SREK1 |
| TC05000281.hg.1 | 2.38 | JUC05001939.hg.1 | SREK1 |
| TC05000281.hg.1 | 2.31 | PSR05003617.hg.1 | SREK1 |
| TC05000281.hg.1 | 2.21 | PSR05003614.hg.1 | SREK1 |
| TC05000281.hg.1 | -3.04 | JUC05001938.hg.1 | SREK1 |
| TC06001487.hg.1 | 2.61 | JUC06008232.hg.1 | HLA-F-AS1 |
| TC06001487.hg.1 | 2.14 | PSR06016718.hg.1 | HLA-F-AS1 |
| TC06001487.hg.1 | 2.01 | JUC06008239.hg.1 | HLA-F-AS1 |
| TC06001487.hg.1 | -2.88 | JUC06008236.hg.1 | HLA-F-AS1 |
| TC06001881.hg.1 | 2.61 | PSR06022939.hg.1 | TMEM30A |
| TC06001881.hg.1 | 2.03 | PSR06022934.hg.1 | TMEM30A |
| TC06001881.hg.1 | -2.65 | JUC06011124.hg.1 | TMEM30A |
| TC09001058.hg.1 | 2.61 | PSR09014048.hg.1 | TPM2 |
| TC09001058.hg.1 | 2.24 | PSR09014060.hg.1 | TPM2 |
| TC09001058.hg.1 | 2.17 | JUC09007569.hg.1 | TPM2 |
| TC09001058.hg.1 | -2.33 | PSR09014072.hg.1 | TPM2 |
| TC09001536.hg.1 | 2.61 | JUC09010392.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | 2.33 | JUC09010391.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | 2.16 | JUC09010395.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.05 | JUC09010399.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.08 | JUC09010408.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.13 | PSR09019157.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.14 | PSR09019164.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.16 | JUC09010388.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.16 | JUC09010421.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.17 | PSR09019166.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.18 | JUC09010416.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.2 | JUC09010394.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.25 | PSR09019168.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.65 | JUC09010402.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.72 | PSR09019163.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -2.96 | PSR09019158.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -3.01 | PSR09019216.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -3.12 | JUC09010422.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -3.23 | PSR09019162.hg.1 | CDK5RAP2 |
| TC09001536.hg.1 | -4.72 | PSR09019167.hg.1 | CDK5RAP2 |
| TC0X000619.hg.1 | 2.61 | JUC0X004116.hg.1 | UTP14A |
| TC0X000619.hg.1 | -2.11 | PSR0X008166.hg.1 | UTP14A |
| TC10000373.hg.1 | 2.61 | JUC10002461.hg.1 | CDK1 |
| TC10000373.hg.1 | 2.54 | PSR10004246.hg.1 | CDK1 |
| TC10000373.hg.1 | 2.28 | PSR10004254.hg.1 | CDK1 |
| TC10000373.hg.1 | 2.1 | PSR10004259.hg.1 | CDK1 |
| TC11000878.hg.1 | 2.61 | PSR11011121.hg.1 | TMEM135 |
| TC11000878.hg.1 | 2.18 | PSR11011112.hg.1 | TMEM135 |
| TC11000878.hg.1 | 2.11 | PSR11011109.hg.1 | TMEM135 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC11000878.hg.1 | 2.11 | JUC11005821.hg.1 | TMEM135 |
| TC11000878.hg.1 | 2.03 | JUC11005834.hg.1 | TMEM135 |
| TC11000878.hg.1 | -2.22 | JUC11005828.hg.1 | TMEM135 |
| TC11002178.hg.1 | 2.61 | JUC11013881.hg.1 | NOX4 |
| TC11002178.hg.1 | 2.55 | JUC11013878.hg.1 | NOX4 |
| TC11002178.hg.1 | 2.49 | PSR11026102.hg.1 | NOX4 |
| TC11002178.hg.1 | 2.13 | JUC11013864.hg.1 | NOX4 |
| TC11002178.hg.1 | 2.02 | PSR11026091.hg.1 | NOX4 |
| TC11002178.hg.1 | -2.01 | JUC11013877.hg.1 | NOX4 |
| TC11002178.hg.1 | -2.41 | PSR11026086.hg.1 | NOX4 |
| TC11002178.hg.1 | -2.59 | JUC11013871.hg.1 | NOX4 |
| TC11002178.hg.1 | -2.75 | PSR11026076.hg.1 | NOX4 |
| TC11002178.hg.1 | -3.22 | PSR11026094.hg.1 | NOX4 |
| TC11002178.hg.1 | -3.48 | JUC11013875.hg.1 | NOX4 |
| TC11002178.hg.1 | -3.6 | PSR11026083.hg.1 | NOX4 |
| TC11002178.hg.1 | -3.6 | JUC11013868.hg.1 | NOX4 |
| TC11002178.hg.1 | -3.65 | JUC11013870.hg.1 | NOX4 |
| TC11002178.hg.1 | -4.03 | JUC11013880.hg.1 | NOX4 |
| TC11002178.hg.1 | -4.31 | PSR11026085.hg.1 | NOX4 |
| TC11002178.hg.1 | -4.44 | PSR11026072.hg.1 | NOX4 |
| TC11002178.hg.1 | -4.58 | PSR11026078.hg.1 | NOX4 |
| TC11002178.hg.1 | -6.56 | JUC11013852.hg.1 | NOX4 |
| TC11002178.hg.1 | -6.93 | PSR11026073.hg.1 | NOX4 |
| TC11002178.hg.1 | -7.84 | PSR11026105.hg.1 | NOX4 |
| TC11002178.hg.1 | -11.06 | PSR11026111.hg.1 | NOX4 |
| TC11002178.hg.1 | -12.13 | JUC11013861.hg.1 | NOX4 |
| TC11002178.hg.1 | -15.31 | PSR11026101.hg.1 | NOX4 |
| TC11002178.hg.1 | -19.83 | PSR11026106.hg.1 | NOX4 |
| TC11002178.hg.1 | -21.73 | JUC11013862.hg.1 | NOX4 |
| TC11002178.hg.1 | -21.83 | JUC11013853.hg.1 | NOX4 |
| TC11002178.hg.1 | -21.99 | JUC11013863.hg.1 | NOX4 |
| TC11002178.hg.1 | -25.61 | PSR11026103.hg.1 | NOX4 |
| TC11002178.hg.1 | -34.73 | JUC11013882.hg.1 | NOX4 |
| TC11002178.hg.1 | -35.71 | PSR11026108.hg.1 | NOX4 |
| TC11002178.hg.1 | -37.28 | PSR11026112.hg.1 | NOX4 |
| TC11002178.hg.1 | -51.07 | PSR11026116.hg.1 | NOX4 |
| TC11002178.hg.1 | -57.55 | PSR11026117.hg.1 | NOX4 |
| TC14000499.hg.1 | 2.61 | PSR14006377.hg.1 | TSHR |
| TC14000499.hg.1 | 2.57 | JUC14003220.hg.1 | TSHR |
| TC14000499.hg.1 | 2.28 | PSR14006398.hg.1 | TSHR |
| TC14000499.hg.1 | 2.23 | PSR14006401.hg.1 | TSHR |
| TC14000499.hg.1 | 2.03 | PSR14006402.hg.1 | TSHR |
| TC14000499.hg.1 | -2.54 | JUC14003227.hg.1 | TSHR |
| TC14000499.hg.1 | -3.7 | JUC14003230.hg.1 | TSHR |
| TC21000157.hg.1 | 2.61 | PSR21001383.hg.1 | SIM2 |
| TC21000157.hg.1 | 2.1 | PSR21001388.hg.1 | SIM2 |
| TC21000157.hg.1 | -2.9 | PSR21001373.hg.1 | SIM2 |
| TC21000157.hg.1 | -2.95 | JUC21000689.hg.1 | SIM2 |
| TC21000157.hg.1 | -5.57 | JUC21000682.hg.1 | SIM2 |
| TC0X000904.hg.1 | 2.61 | JUC0X006070.hg.1 | CXorf23 |
| TC0X000904.hg.1 | 2.07 | JUC0X006066.hg.1 | CXorf23 |
| TC0X000904.hg.1 | 2 | PSR0X012227.hg.1 | CXorf23 |
| TC0X000904.hg.1 | -2.6 | JUC0X006051.hg.1 | CXorf23 |
| TC01001917.hg.1 | 2.6 | JUC01016148.hg.1 | DISC1, TSNA |
| TC01001917.hg.1 | -2.12 | JUC01016129.hg.1 | DISC1, TSNA |
| TC01001917.hg.1 | -2.15 | PSR01029852.hg.1 | DISC1, TSNA |
| TC01001917.hg.1 | -2.47 | JUC01016136.hg.1 | DISC1, TSNA |
| TC01001917.hg.1 | -3.09 | JUC01016158.hg.1 | DISC1, TSNA |

| | | | |
|-----------------|-------|------------------|---------|
| TC01006281.hg.1 | 2.6 | PSR01059951.hg.1 | AGT |
| TC01006281.hg.1 | 2.41 | JUC01039177.hg.1 | AGT |
| TC01006281.hg.1 | 2.32 | PSR01059952.hg.1 | AGT |
| TC02000427.hg.1 | 2.6 | PSR02006420.hg.1 | NAGK |
| TC02000427.hg.1 | 2.45 | JUC02003264.hg.1 | NAGK |
| TC02000427.hg.1 | 2.4 | JUC02003268.hg.1 | NAGK |
| TC02000427.hg.1 | 2.22 | PSR02006385.hg.1 | NAGK |
| TC02001305.hg.1 | 2.6 | JUC02010757.hg.1 | PLCD4 |
| TC02001305.hg.1 | 2.5 | JUC02010754.hg.1 | PLCD4 |
| TC02001305.hg.1 | 2.46 | JUC02010776.hg.1 | PLCD4 |
| TC02001305.hg.1 | 2.28 | JUC02010769.hg.1 | PLCD4 |
| TC02001305.hg.1 | 2.1 | JUC02010773.hg.1 | PLCD4 |
| TC02001305.hg.1 | -2.02 | PSR02020070.hg.1 | PLCD4 |
| TC02001305.hg.1 | -2.02 | JUC02010770.hg.1 | PLCD4 |
| TC02001305.hg.1 | -2.12 | PSR02020036.hg.1 | PLCD4 |
| TC02001305.hg.1 | -4.06 | PSR02020035.hg.1 | PLCD4 |
| TC02001305.hg.1 | -4.07 | PSR02020071.hg.1 | PLCD4 |
| TC02001867.hg.1 | 2.6 | PSR02029926.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.07 | JUC02015721.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.15 | PSR02029913.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.22 | JUC02015706.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.57 | PSR02029907.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.57 | JUC02015722.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.72 | PSR02029887.hg.1 | EFEMP1 |
| TC02001867.hg.1 | -2.87 | PSR02029912.hg.1 | EFEMP1 |
| TC03001042.hg.1 | 2.6 | JUC03009356.hg.1 | TP63 |
| TC03001042.hg.1 | -2.01 | JUC03009369.hg.1 | TP63 |
| TC03001042.hg.1 | -2.06 | PSR03018475.hg.1 | TP63 |
| TC03001042.hg.1 | -2.13 | PSR03018473.hg.1 | TP63 |
| TC03001042.hg.1 | -2.25 | JUC03009367.hg.1 | TP63 |
| TC04000912.hg.1 | 2.6 | JUC04006684.hg.1 | TLR3 |
| TC04000912.hg.1 | -2.02 | PSR04012413.hg.1 | TLR3 |
| TC04000912.hg.1 | -2.93 | JUC04006686.hg.1 | TLR3 |
| TC04001818.hg.1 | 2.6 | PSR04024813.hg.1 | CCDC110 |
| TC04001818.hg.1 | 2.29 | PSR04024828.hg.1 | CCDC110 |
| TC04001818.hg.1 | 2.05 | JUC04013166.hg.1 | CCDC110 |
| TC05000300.hg.1 | 2.6 | JUC05002103.hg.1 | MRPS36 |
| TC05000300.hg.1 | -3.26 | PSR05003947.hg.1 | MRPS36 |
| TC06001561.hg.1 | 2.6 | PSR06018368.hg.1 | AGPAT1 |
| TC06001561.hg.1 | 2.42 | JUC06008794.hg.1 | AGPAT1 |
| TC06001561.hg.1 | 2.25 | PSR06018374.hg.1 | AGPAT1 |
| TC06001561.hg.1 | -2.06 | PSR06018370.hg.1 | AGPAT1 |
| TC06001561.hg.1 | -3.57 | JUC06008784.hg.1 | AGPAT1 |
| TC06002010.hg.1 | 2.6 | PSR06025101.hg.1 | CDK19 |
| TC06002010.hg.1 | 2.59 | PSR06025106.hg.1 | CDK19 |
| TC06002010.hg.1 | 2.28 | PSR06025105.hg.1 | CDK19 |
| TC06002010.hg.1 | 2.27 | JUC06012352.hg.1 | CDK19 |
| TC06002010.hg.1 | 2.2 | PSR06025102.hg.1 | CDK19 |
| TC07000090.hg.1 | 2.6 | PSR07001458.hg.1 | PHF14 |
| TC07000090.hg.1 | 2.14 | PSR07001471.hg.1 | PHF14 |
| TC07000090.hg.1 | 2.03 | JUC07000626.hg.1 | PHF14 |
| TC08000539.hg.1 | 2.6 | JUC08003642.hg.1 | CPNE3 |
| TC08000539.hg.1 | 2.11 | JUC08003650.hg.1 | CPNE3 |
| TC08000539.hg.1 | 2.08 | PSR08007326.hg.1 | CPNE3 |
| TC08000539.hg.1 | -2.81 | JUC08003640.hg.1 | CPNE3 |
| TC08001485.hg.1 | 2.6 | JUC08009842.hg.1 | YWHAZ |
| TC08001485.hg.1 | 2.08 | PSR08019389.hg.1 | YWHAZ |
| TC08001485.hg.1 | -3.89 | JUC08009864.hg.1 | YWHAZ |

| | | | |
|-----------------|-------|------------------|-------------|
| TC0X000030.hg.1 | 2.6 | PSR0X000368.hg.1 | VCX3B, VCX |
| TC0X000030.hg.1 | 2.07 | JUC0X000197.hg.1 | VCX3B, VCX |
| TC11002132.hg.1 | 2.6 | JUC11013510.hg.1 | NDUFC2-KC |
| TC11002132.hg.1 | -2.19 | PSR11025476.hg.1 | NDUFC2-KC |
| TC11002132.hg.1 | -2.43 | PSR11025477.hg.1 | NDUFC2-KC |
| TC11002132.hg.1 | -2.59 | PSR11025478.hg.1 | NDUFC2-KC |
| TC12001336.hg.1 | 2.6 | JUC12009682.hg.1 | |
| TC12001336.hg.1 | -2.42 | PSR12017493.hg.1 | |
| TC12001336.hg.1 | -3.12 | PSR12017501.hg.1 | |
| TC12001336.hg.1 | -3.46 | PSR12017498.hg.1 | |
| TC12001336.hg.1 | -3.6 | JUC12009684.hg.1 | |
| TC13001720.hg.1 | 2.6 | PSR13003971.hg.1 | BIVM |
| TC13001720.hg.1 | 2.17 | JUC13008393.hg.1 | BIVM |
| TC13001720.hg.1 | -2.24 | JUC13008391.hg.1 | BIVM |
| TC13001720.hg.1 | -2.39 | PSR13003975.hg.1 | BIVM |
| TC13001720.hg.1 | -2.79 | JUC13008388.hg.1 | BIVM |
| TC14002205.hg.1 | 2.6 | JUC14011395.hg.1 | AP1G2 |
| TC14002205.hg.1 | 2.13 | JUC14011397.hg.1 | AP1G2 |
| TC14002205.hg.1 | -2.02 | PSR14010750.hg.1 | AP1G2 |
| TC14002205.hg.1 | -2.14 | PSR14010760.hg.1 | AP1G2 |
| TC14002205.hg.1 | -2.48 | PSR14010766.hg.1 | AP1G2 |
| TC14002205.hg.1 | -5.92 | JUC14011411.hg.1 | AP1G2 |
| TC15001183.hg.1 | 2.6 | JUC15005557.hg.1 | FMN1, LOC10 |
| TC15001183.hg.1 | 2.39 | PSR15010481.hg.1 | FMN1, LOC10 |
| TC15001183.hg.1 | 2.31 | PSR15010486.hg.1 | FMN1, LOC10 |
| TC15001183.hg.1 | 2.25 | JUC15005547.hg.1 | FMN1, LOC10 |
| TC15001183.hg.1 | 2.23 | PSR15010479.hg.1 | FMN1, LOC10 |
| TC15001183.hg.1 | 2.15 | JUC15005540.hg.1 | FMN1, LOC10 |
| TC17002876.hg.1 | 2.6 | PSR17007217.hg.1 | CRHR1 |
| TC17002876.hg.1 | -2.05 | JUC17018691.hg.1 | CRHR1 |
| TC17002876.hg.1 | -2.64 | PSR17007204.hg.1 | CRHR1 |
| TC01001024.hg.1 | 2.59 | PSR01016225.hg.1 | PTGFRN |
| TC01001024.hg.1 | 2.3 | PSR01016222.hg.1 | PTGFRN |
| TC01001024.hg.1 | 2.15 | JUC01008502.hg.1 | PTGFRN |
| TC01001661.hg.1 | 2.59 | PSR01025680.hg.1 | NAV1 |
| TC01001661.hg.1 | 2.2 | PSR01025681.hg.1 | NAV1 |
| TC01001661.hg.1 | 2.17 | PSR01025677.hg.1 | NAV1 |
| TC01001661.hg.1 | 2.12 | JUC01013716.hg.1 | NAV1 |
| TC01001661.hg.1 | 2.1 | PSR01025676.hg.1 | NAV1 |
| TC01001661.hg.1 | 2.08 | PSR01025679.hg.1 | NAV1 |
| TC01001661.hg.1 | -2.21 | JUC01013723.hg.1 | NAV1 |
| TC01001661.hg.1 | -2.82 | JUC01013749.hg.1 | NAV1 |
| TC01001829.hg.1 | 2.59 | JUC01015331.hg.1 | MIA3 |
| TC01001829.hg.1 | 2.43 | JUC01015307.hg.1 | MIA3 |
| TC01001829.hg.1 | -2.03 | PSR01028391.hg.1 | MIA3 |
| TC01002472.hg.1 | 2.59 | JUC01020526.hg.1 | ZBTB8OS |
| TC01002472.hg.1 | -2.17 | PSR01038175.hg.1 | ZBTB8OS |
| TC01003305.hg.1 | 2.59 | PSR01051193.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.33 | JUC01026934.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.25 | PSR01051154.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.22 | JUC01026928.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.1 | JUC01026955.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.08 | PSR01051156.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.06 | JUC01026958.hg.1 | THBS3 |
| TC01003305.hg.1 | 2.01 | PSR01051194.hg.1 | THBS3 |
| TC01003305.hg.1 | -2.18 | JUC01026927.hg.1 | THBS3 |
| TC01003305.hg.1 | -3.51 | JUC01026938.hg.1 | THBS3 |
| TC02000891.hg.1 | 2.59 | JUC02007029.hg.1 | HNMT |

| | | | |
|-----------------|-------|------------------|-------------|
| TC02000891.hg.1 | 2.25 | JUC02007031.hg.1 | HNMT |
| TC02000891.hg.1 | 2.15 | PSR02013227.hg.1 | HNMT |
| TC02000891.hg.1 | -2.05 | JUC02007042.hg.1 | HNMT |
| TC02000891.hg.1 | -2.1 | PSR02013226.hg.1 | HNMT |
| TC02000891.hg.1 | -2.9 | JUC02007038.hg.1 | HNMT |
| TC02000891.hg.1 | -3.06 | PSR02013223.hg.1 | HNMT |
| TC02000891.hg.1 | -3.28 | JUC02007037.hg.1 | HNMT |
| TC02000891.hg.1 | -3.34 | PSR02013217.hg.1 | HNMT |
| TC02000891.hg.1 | -3.55 | PSR02013209.hg.1 | HNMT |
| TC02000891.hg.1 | -3.88 | JUC02007036.hg.1 | HNMT |
| TC02000891.hg.1 | -3.92 | JUC02007033.hg.1 | HNMT |
| TC02000891.hg.1 | -4.53 | JUC02007035.hg.1 | HNMT |
| TC02000891.hg.1 | -4.6 | JUC02007039.hg.1 | HNMT |
| TC02000891.hg.1 | -4.62 | PSR02013222.hg.1 | HNMT |
| TC02000891.hg.1 | -4.69 | PSR02013219.hg.1 | HNMT |
| TC02000891.hg.1 | -6.39 | PSR02013210.hg.1 | HNMT |
| TC02001857.hg.1 | 2.59 | JUC02015563.hg.1 | C2orf63 |
| TC02001857.hg.1 | 2.35 | JUC02015567.hg.1 | C2orf63 |
| TC02001857.hg.1 | 2.27 | PSR02029647.hg.1 | C2orf63 |
| TC02001857.hg.1 | 2.09 | JUC02015549.hg.1 | C2orf63 |
| TC02001857.hg.1 | 2.02 | PSR02029638.hg.1 | C2orf63 |
| TC02001857.hg.1 | -2.27 | PSR02029662.hg.1 | C2orf63 |
| TC02002797.hg.1 | 2.59 | JUC02023611.hg.1 | DNPEP |
| TC02002797.hg.1 | 2.52 | JUC02023620.hg.1 | DNPEP |
| TC02002797.hg.1 | 2.5 | JUC02023630.hg.1 | DNPEP |
| TC02002797.hg.1 | 2.03 | PSR02045243.hg.1 | DNPEP |
| TC05000601.hg.1 | 2.59 | JUC05004513.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -2.01 | JUC05004496.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -2.22 | PSR05008288.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -2.45 | PSR05008287.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -2.63 | PSR05008273.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -2.97 | JUC05004483.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -3.08 | JUC05004494.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -3.61 | JUC05004484.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -3.76 | PSR05008260.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -3.97 | PSR05008257.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -4.04 | PSR05008286.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -4.43 | PSR05008270.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -4.59 | PSR05008293.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -4.62 | JUC05004514.hg.1 | GRAMD3 |
| TC05000601.hg.1 | -5.1 | JUC05004489.hg.1 | GRAMD3 |
| TC05000821.hg.1 | 2.59 | PSR05011752.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | 2.58 | PSR05011729.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | 2 | PSR05011751.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -2 | PSR05011735.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -2 | JUC05006108.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -2.08 | PSR05011730.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -2.53 | PSR05011737.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -2.79 | PSR05011726.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -2.84 | PSR05011724.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -3.09 | JUC05006113.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -3.72 | JUC05006115.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -3.94 | JUC05006112.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -4.25 | PSR05011748.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -4.4 | JUC05006114.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -4.76 | JUC05006116.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -5.13 | PSR05011743.hg.1 | MIR145, MIR |
| TC05000821.hg.1 | -7.36 | JUC05006111.hg.1 | MIR145, MIR |

| | | | |
|-----------------|-------|------------------|-------------|
| TC05000821.hg.1 | -7.4 | JUC05006117.hg.1 | MIR145, MIR |
| TC06001828.hg.1 | 2.59 | PSR06022289.hg.1 | DST, LOC100 |
| TC06001828.hg.1 | -2.01 | PSR06022288.hg.1 | DST, LOC100 |
| TC06001828.hg.1 | -2.39 | JUC06010741.hg.1 | DST, LOC100 |
| TC06001828.hg.1 | -2.52 | JUC06010712.hg.1 | DST, LOC100 |
| TC06001828.hg.1 | -2.96 | JUC06010643.hg.1 | DST, LOC100 |
| TC06001828.hg.1 | -5.43 | PSR06022190.hg.1 | DST, LOC100 |
| TC06001828.hg.1 | -6.09 | JUC06010675.hg.1 | DST, LOC100 |
| TC09001366.hg.1 | 2.59 | JUC09009161.hg.1 | PTCH1 |
| TC09001366.hg.1 | 2.25 | PSR09017019.hg.1 | PTCH1 |
| TC09001366.hg.1 | 2.19 | PSR09017059.hg.1 | PTCH1 |
| TC09001366.hg.1 | 2.12 | PSR09017036.hg.1 | PTCH1 |
| TC09001366.hg.1 | 2.12 | JUC09009142.hg.1 | PTCH1 |
| TC09001366.hg.1 | 2.09 | PSR09017046.hg.1 | PTCH1 |
| TC09001366.hg.1 | -3.27 | JUC09009173.hg.1 | PTCH1 |
| TC0X001262.hg.1 | 2.59 | JUC0X008683.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.26 | PSR0X017068.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.29 | PSR0X017079.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.38 | PSR0X017047.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.45 | JUC0X008678.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.52 | PSR0X017061.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.52 | PSR0X017083.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.63 | PSR0X017054.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.65 | PSR0X017078.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.94 | PSR0X017071.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -2.98 | PSR0X017060.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -3.28 | JUC0X008677.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -3.39 | PSR0X017056.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -3.46 | JUC0X008671.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -3.68 | PSR0X017076.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -3.8 | PSR0X017055.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -3.97 | PSR0X017085.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -4.14 | PSR0X017073.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -4.58 | PSR0X017064.hg.1 | TSC22D3 |
| TC0X001262.hg.1 | -5.32 | JUC0X008669.hg.1 | TSC22D3 |
| TC0X001491.hg.1 | 2.59 | JUC0X009841.hg.1 | GABRE, MIR |
| TC0X001491.hg.1 | 2.43 | JUC0X009845.hg.1 | GABRE, MIR |
| TC0X001491.hg.1 | -2.29 | PSR0X019422.hg.1 | GABRE, MIR |
| TC0X001491.hg.1 | -2.36 | PSR0X019387.hg.1 | GABRE, MIR |
| TC0X002309.hg.1 | 2.59 | JUC0X012915.hg.1 | NAA10 |
| TC0X002309.hg.1 | 2.33 | JUC0X012917.hg.1 | NAA10 |
| TC0X002309.hg.1 | 2.15 | PSR0X020138.hg.1 | NAA10 |
| TC11001924.hg.1 | 2.59 | JUC11012178.hg.1 | CDCA5 |
| TC11001924.hg.1 | 2.4 | PSR11023065.hg.1 | CDCA5 |
| TC12001448.hg.1 | 2.59 | PSR12018960.hg.1 | ZNF641 |
| TC12001448.hg.1 | -2.18 | JUC12010609.hg.1 | ZNF641 |
| TC12001797.hg.1 | 2.59 | PSR12023766.hg.1 | POC1B, POC |
| TC12001797.hg.1 | 2.06 | JUC12013173.hg.1 | POC1B, POC |
| TC12001797.hg.1 | 2.03 | PSR12023775.hg.1 | POC1B, POC |
| TC14000571.hg.1 | 2.59 | JUC14003569.hg.1 | RIN3 |
| TC14000571.hg.1 | -2.27 | JUC14003563.hg.1 | RIN3 |
| TC14000571.hg.1 | -2.38 | PSR14006962.hg.1 | RIN3 |
| TC14000571.hg.1 | -2.43 | JUC14003561.hg.1 | RIN3 |
| TC14000571.hg.1 | -2.48 | JUC14003559.hg.1 | RIN3 |
| TC14000571.hg.1 | -3.91 | JUC14003557.hg.1 | RIN3 |
| TC14000571.hg.1 | -4.11 | JUC14003568.hg.1 | RIN3 |
| TC17000234.hg.1 | 2.59 | PSR17003304.hg.1 | EPN2 |
| TC17000234.hg.1 | 2.14 | PSR17003298.hg.1 | EPN2 |

| | | | |
|-----------------|-------|------------------|---------------|
| TC17000234.hg.1 | 2.13 | JUC17001877.hg.1 | EPN2 |
| TC17000352.hg.1 | 2.59 | JUC17002487.hg.1 | LRRC37BP1 |
| TC17000352.hg.1 | 2.32 | PSR17004398.hg.1 | LRRC37BP1 |
| TC17000352.hg.1 | -2.42 | JUC17002483.hg.1 | LRRC37BP1 |
| TC19000459.hg.1 | 2.59 | PSR19006018.hg.1 | FXYD1 |
| TC19000459.hg.1 | 2.53 | PSR19006010.hg.1 | FXYD1 |
| TC19000459.hg.1 | 2.53 | JUC19003575.hg.1 | FXYD1 |
| TC19000459.hg.1 | 2.28 | PSR19006017.hg.1 | FXYD1 |
| TC19000459.hg.1 | 2.12 | PSR19006009.hg.1 | FXYD1 |
| TC19000459.hg.1 | -2.88 | JUC19003578.hg.1 | FXYD1 |
| TC20000385.hg.1 | 2.59 | PSR20005617.hg.1 | DDX27 |
| TC20000385.hg.1 | 2.12 | JUC20003065.hg.1 | DDX27 |
| TC20000600.hg.1 | 2.59 | JUC20004508.hg.1 | TRMT6 |
| TC20000600.hg.1 | -2.32 | PSR20008732.hg.1 | TRMT6 |
| TC17002869.hg.1 | 2.59 | JUC17018578.hg.1 | TBC1D26 |
| TC17002869.hg.1 | 2.36 | JUC17018569.hg.1 | TBC1D26 |
| TC17002869.hg.1 | 2 | PSR17002380.hg.1 | TBC1D26 |
| TC01001988.hg.1 | 2.58 | JUC01016745.hg.1 | C1orf101 |
| TC01001988.hg.1 | -2.01 | PSR01030783.hg.1 | C1orf101 |
| TC01001988.hg.1 | -2.89 | JUC01016772.hg.1 | C1orf101 |
| TC01002166.hg.1 | 2.58 | JUC01017921.hg.1 | ERRFI1 |
| TC01002166.hg.1 | 2.49 | PSR01033410.hg.1 | ERRFI1 |
| TC01002166.hg.1 | 2.3 | PSR01033397.hg.1 | ERRFI1 |
| TC01002166.hg.1 | -3.88 | PSR01033405.hg.1 | ERRFI1 |
| TC03000074.hg.1 | 2.58 | JUC03000853.hg.1 | CAND2 |
| TC03000074.hg.1 | 2.17 | JUC03000856.hg.1 | CAND2 |
| TC03000074.hg.1 | -2.03 | PSR03001652.hg.1 | CAND2 |
| TC03000074.hg.1 | -2.2 | JUC03000865.hg.1 | CAND2 |
| TC03000077.hg.1 | 2.58 | JUC03000897.hg.1 | FBLN2 |
| TC03000077.hg.1 | 2.48 | PSR03001741.hg.1 | FBLN2 |
| TC03000077.hg.1 | 2.29 | JUC03000902.hg.1 | FBLN2 |
| TC03000077.hg.1 | 2.23 | JUC03000913.hg.1 | FBLN2 |
| TC03000077.hg.1 | -2.1 | JUC03000919.hg.1 | FBLN2 |
| TC03000077.hg.1 | -2.23 | JUC03000916.hg.1 | FBLN2 |
| TC03000077.hg.1 | -2.31 | JUC03000899.hg.1 | FBLN2 |
| TC03000077.hg.1 | -2.46 | JUC03000907.hg.1 | FBLN2 |
| TC03000985.hg.1 | 2.58 | PSR03016940.hg.1 | KLHL24 |
| TC03000985.hg.1 | 2.08 | JUC03008612.hg.1 | KLHL24 |
| TC03000985.hg.1 | -2.2 | JUC03008623.hg.1 | KLHL24 |
| TC05001317.hg.1 | 2.58 | JUC05009561.hg.1 | CCL28 |
| TC05001317.hg.1 | 2.11 | PSR05018600.hg.1 | CCL28 |
| TC05001822.hg.1 | 2.58 | JUC05012713.hg.1 | FAM13B |
| TC05001822.hg.1 | 2.29 | JUC05012699.hg.1 | FAM13B |
| TC05001822.hg.1 | -2.17 | PSR05024755.hg.1 | FAM13B |
| TC05001822.hg.1 | -2.24 | JUC05012701.hg.1 | FAM13B |
| TC05001822.hg.1 | -2.79 | JUC05012697.hg.1 | FAM13B |
| TC05001822.hg.1 | -2.8 | JUC05012696.hg.1 | FAM13B |
| TC05001845.hg.1 | 2.58 | JUC05012972.hg.1 | TMEM173 |
| TC05001845.hg.1 | 2.17 | PSR05025334.hg.1 | TMEM173 |
| TC07000155.hg.1 | 2.58 | JUC07001202.hg.1 | MPP6 |
| TC07000155.hg.1 | 2.43 | JUC07001193.hg.1 | MPP6 |
| TC07000155.hg.1 | 2.17 | PSR07002455.hg.1 | MPP6 |
| TC07000155.hg.1 | -4.06 | PSR07002458.hg.1 | MPP6 |
| TC08001575.hg.1 | 2.58 | JUC08010579.hg.1 | DERL1 |
| TC08001575.hg.1 | -2.02 | PSR08020685.hg.1 | DERL1 |
| TC08001575.hg.1 | -3.58 | JUC08010587.hg.1 | DERL1 |
| TC09000378.hg.1 | 2.58 | PSR09004054.hg.1 | IDNK, C9orf10 |
| TC09000378.hg.1 | 2.56 | JUC09002210.hg.1 | IDNK, C9orf10 |

| | | | |
|-----------------|-------|------------------|------------|
| TC12003298.hg.1 | 2.58 | JUC12020631.hg.1 | HOXC4, HOX |
| TC12003298.hg.1 | 2.35 | PSR12005876.hg.1 | HOXC4, HOX |
| TC12003298.hg.1 | 2.19 | JUC12020628.hg.1 | HOXC4, HOX |
| TC12003298.hg.1 | -5.07 | JUC12020632.hg.1 | HOXC4, HOX |
| TC14001527.hg.1 | 2.58 | JUC14008855.hg.1 | MOK |
| TC14001527.hg.1 | -2 | JUC14008878.hg.1 | MOK |
| TC14001527.hg.1 | -2.02 | PSR14017110.hg.1 | MOK |
| TC14001527.hg.1 | -2.05 | JUC14008862.hg.1 | MOK |
| TC14001527.hg.1 | -2.08 | JUC14008857.hg.1 | MOK |
| TC14001527.hg.1 | -2.1 | PSR14017132.hg.1 | MOK |
| TC14001527.hg.1 | -2.11 | JUC14008877.hg.1 | MOK |
| TC14001527.hg.1 | -2.13 | JUC14008860.hg.1 | MOK |
| TC14001527.hg.1 | -2.18 | PSR14017131.hg.1 | MOK |
| TC14001527.hg.1 | -2.37 | JUC14008853.hg.1 | MOK |
| TC14001527.hg.1 | -2.67 | JUC14008865.hg.1 | MOK |
| TC14001527.hg.1 | -2.79 | JUC14008846.hg.1 | MOK |
| TC14001527.hg.1 | -3.02 | JUC14008850.hg.1 | MOK |
| TC15000827.hg.1 | 2.58 | JUC15004006.hg.1 | AKAP13 |
| TC15000827.hg.1 | 2.42 | JUC15004001.hg.1 | AKAP13 |
| TC15000827.hg.1 | 2.32 | JUC15003991.hg.1 | AKAP13 |
| TC15000827.hg.1 | 2.07 | PSR15007625.hg.1 | AKAP13 |
| TC15000827.hg.1 | -2.02 | JUC15003998.hg.1 | AKAP13 |
| TC15000827.hg.1 | -2.12 | PSR15007581.hg.1 | AKAP13 |
| TC15000827.hg.1 | -2.25 | PSR15007578.hg.1 | AKAP13 |
| TC15000827.hg.1 | -2.3 | PSR15007577.hg.1 | AKAP13 |
| TC15000827.hg.1 | -2.38 | PSR15007604.hg.1 | AKAP13 |
| TC15000827.hg.1 | -4.86 | PSR15007584.hg.1 | AKAP13 |
| TC17000120.hg.1 | 2.58 | PSR17001754.hg.1 | CHD3 |
| TC17000120.hg.1 | 2.2 | JUC17001012.hg.1 | CHD3 |
| TC22000791.hg.1 | 2.58 | JUC22005522.hg.1 | DDX17 |
| TC22000791.hg.1 | 2.5 | JUC22005523.hg.1 | DDX17 |
| TC22000791.hg.1 | 2.03 | PSR22013350.hg.1 | DDX17 |
| TC02002507.hg.1 | 2.58 | JUC02020863.hg.1 | SPC25 |
| TC02002507.hg.1 | 2.45 | JUC02020868.hg.1 | SPC25 |
| TC02002507.hg.1 | 2 | PSR02039683.hg.1 | SPC25 |
| TC01000310.hg.1 | 2.57 | JUC01002513.hg.1 | NIPAL3 |
| TC01000310.hg.1 | -2.02 | JUC01002511.hg.1 | NIPAL3 |
| TC01000310.hg.1 | -2.08 | PSR01004689.hg.1 | NIPAL3 |
| TC01000476.hg.1 | 2.57 | PSR01007403.hg.1 | CDCA8 |
| TC01000476.hg.1 | -2.13 | JUC01003847.hg.1 | CDCA8 |
| TC01001700.hg.1 | 2.57 | JUC01014144.hg.1 | MDM4 |
| TC01001700.hg.1 | 2.48 | JUC01014140.hg.1 | MDM4 |
| TC01001700.hg.1 | 2.29 | JUC01014145.hg.1 | MDM4 |
| TC01001700.hg.1 | 2.17 | PSR01026450.hg.1 | MDM4 |
| TC01001700.hg.1 | -2.46 | JUC01014171.hg.1 | MDM4 |
| TC02000203.hg.1 | 2.57 | JUC02001478.hg.1 | LCLAT1 |
| TC02000203.hg.1 | 2.41 | JUC02001467.hg.1 | LCLAT1 |
| TC02000203.hg.1 | 2.09 | PSR02002949.hg.1 | LCLAT1 |
| TC02000540.hg.1 | 2.57 | JUC02004316.hg.1 | THNSL2 |
| TC02000540.hg.1 | 2.19 | JUC02004317.hg.1 | THNSL2 |
| TC02000540.hg.1 | 2.06 | JUC02004308.hg.1 | THNSL2 |
| TC02000540.hg.1 | -2.1 | JUC02004310.hg.1 | THNSL2 |
| TC02000540.hg.1 | -2.18 | PSR02008417.hg.1 | THNSL2 |
| TC02000540.hg.1 | -2.39 | JUC02004314.hg.1 | THNSL2 |
| TC02002683.hg.1 | 2.57 | JUC02022690.hg.1 | ICA1L |
| TC02002683.hg.1 | 2.48 | JUC02022689.hg.1 | ICA1L |
| TC02002683.hg.1 | 2.23 | PSR02043348.hg.1 | ICA1L |
| TC02002683.hg.1 | 2.2 | PSR02043347.hg.1 | ICA1L |

| | | | |
|-----------------|-------|------------------|----------|
| TC02002683.hg.1 | 2.19 | PSR02043346.hg.1 | ICA1L |
| TC02002683.hg.1 | 2.09 | JUC02022694.hg.1 | ICA1L |
| TC02002683.hg.1 | -2.22 | JUC02022703.hg.1 | ICA1L |
| TC04000466.hg.1 | 2.57 | PSR04006672.hg.1 | ARHGAP24 |
| TC04000466.hg.1 | -2.55 | JUC04003379.hg.1 | ARHGAP24 |
| TC04000466.hg.1 | -2.69 | JUC04003374.hg.1 | ARHGAP24 |
| TC04000853.hg.1 | 2.57 | PSR04011712.hg.1 | GALNT7 |
| TC04000853.hg.1 | 2 | PSR04011723.hg.1 | GALNT7 |
| TC04000853.hg.1 | -2.31 | JUC04006292.hg.1 | GALNT7 |
| TC05000612.hg.1 | 2.57 | PSR05008500.hg.1 | SLC12A2 |
| TC05000612.hg.1 | 2.22 | JUC05004604.hg.1 | SLC12A2 |
| TC05000612.hg.1 | 2.19 | PSR05008521.hg.1 | SLC12A2 |
| TC05000612.hg.1 | 2.13 | JUC05004621.hg.1 | SLC12A2 |
| TC05000612.hg.1 | 2.12 | PSR05008534.hg.1 | SLC12A2 |
| TC05000612.hg.1 | 2.05 | PSR05008516.hg.1 | SLC12A2 |
| TC05000612.hg.1 | -2.19 | JUC05004631.hg.1 | SLC12A2 |
| TC05000612.hg.1 | -3.38 | JUC05004632.hg.1 | SLC12A2 |
| TC07000571.hg.1 | 2.57 | PSR07008414.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.16 | JUC07004038.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.2 | JUC07004042.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.23 | JUC07004040.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.26 | JUC07004035.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.33 | JUC07004030.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.65 | PSR07008402.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.77 | PSR07008390.hg.1 | DYNC111 |
| TC07000571.hg.1 | -2.89 | JUC07004026.hg.1 | DYNC111 |
| TC07001185.hg.1 | 2.57 | PSR07018538.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | 2.12 | PSR07018544.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | 2.09 | JUC07009082.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -2.05 | JUC07009068.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -2.11 | PSR07018584.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -2.15 | PSR07018588.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -2.18 | PSR07018586.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -2.35 | JUC07009076.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -3.51 | PSR07018583.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -4.15 | PSR07018585.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -4.95 | PSR07018587.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -6.15 | JUC07009091.hg.1 | RAPGEF5 |
| TC07001185.hg.1 | -6.26 | JUC07009101.hg.1 | RAPGEF5 |
| TC08001434.hg.1 | 2.57 | PSR08018640.hg.1 | KIAA1429 |
| TC08001434.hg.1 | -2.32 | JUC08009514.hg.1 | KIAA1429 |
| TC09000526.hg.1 | 2.57 | PSR09005759.hg.1 | SMC2 |
| TC09000526.hg.1 | 2.38 | JUC09003220.hg.1 | SMC2 |
| TC09000526.hg.1 | 2.1 | JUC09003200.hg.1 | SMC2 |
| TC09000526.hg.1 | 2.08 | PSR09005772.hg.1 | SMC2 |
| TC09000526.hg.1 | -2.03 | PSR09005797.hg.1 | SMC2 |
| TC09000526.hg.1 | -2.27 | JUC09003190.hg.1 | SMC2 |
| TC09000526.hg.1 | -2.77 | JUC09003194.hg.1 | SMC2 |
| TC0X001214.hg.1 | 2.57 | JUC0X008317.hg.1 | TRMT2B |
| TC0X001214.hg.1 | 2.13 | JUC0X008316.hg.1 | TRMT2B |
| TC0X001214.hg.1 | -2.43 | PSR0X016325.hg.1 | TRMT2B |
| TC10000308.hg.1 | 2.57 | JUC10001983.hg.1 | ANTXR1 |
| TC10000308.hg.1 | -2.42 | PSR10003461.hg.1 | ANTXR1 |
| TC10000814.hg.1 | 2.57 | JUC10005470.hg.1 | VTI1A |
| TC10000814.hg.1 | 2.1 | PSR10009799.hg.1 | VTI1A |
| TC10000814.hg.1 | -2.31 | JUC10005471.hg.1 | VTI1A |
| TC10001557.hg.1 | 2.57 | PSR10019752.hg.1 | TLL2 |
| TC10001557.hg.1 | 2.53 | PSR10019747.hg.1 | TLL2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC10001557.hg.1 | 2.48 | JUC10011538.hg.1 | TLL2 |
| TC10001557.hg.1 | -2.42 | JUC10011554.hg.1 | TLL2 |
| TC12000202.hg.1 | 2.57 | PSR12002492.hg.1 | RERG-AS1 |
| TC12000202.hg.1 | 2.09 | JUC12001159.hg.1 | RERG-AS1 |
| TC12001279.hg.1 | 2.57 | PSR12016671.hg.1 | RERG |
| TC12001279.hg.1 | -2.51 | JUC12009138.hg.1 | RERG |
| TC12001391.hg.1 | 2.57 | JUC12010022.hg.1 | KIF21A |
| TC12001391.hg.1 | 2.53 | JUC12010028.hg.1 | KIF21A |
| TC12001391.hg.1 | 2.51 | JUC12010066.hg.1 | KIF21A |
| TC12001391.hg.1 | -2.04 | PSR12018014.hg.1 | KIF21A |
| TC12001391.hg.1 | -2.66 | JUC12010020.hg.1 | KIF21A |
| TC12001391.hg.1 | -4.25 | JUC12010047.hg.1 | KIF21A |
| TC16000526.hg.1 | 2.57 | JUC16004143.hg.1 | CES4A |
| TC16000526.hg.1 | -2.15 | JUC16004162.hg.1 | CES4A |
| TC16000526.hg.1 | -2.85 | PSR16007341.hg.1 | CES4A |
| TC16002082.hg.1 | 2.57 | JUC16013844.hg.1 | PRSS53 |
| TC16002082.hg.1 | -2.26 | PSR16014952.hg.1 | PRSS53 |
| TC16002082.hg.1 | -3.42 | PSR16014949.hg.1 | PRSS53 |
| TC17001529.hg.1 | 2.57 | PSR17020399.hg.1 | STAT5B |
| TC17001529.hg.1 | 2.37 | JUC17011419.hg.1 | STAT5B |
| TC17001529.hg.1 | 2.1 | PSR17020429.hg.1 | STAT5B |
| TC17001529.hg.1 | 2.05 | PSR17020418.hg.1 | STAT5B |
| TC17001529.hg.1 | 2.01 | JUC17011428.hg.1 | STAT5B |
| TC17001678.hg.1 | 2.57 | JUC17012541.hg.1 | SAMD14 |
| TC17001678.hg.1 | 2.42 | JUC17012529.hg.1 | SAMD14 |
| TC17001678.hg.1 | 2.21 | JUC17012543.hg.1 | SAMD14 |
| TC17001678.hg.1 | 2.11 | PSR17022533.hg.1 | SAMD14 |
| TC17001678.hg.1 | -2.09 | JUC17012530.hg.1 | SAMD14 |
| TC17001678.hg.1 | -2.61 | PSR17022551.hg.1 | SAMD14 |
| TC17001968.hg.1 | 2.57 | PSR17026836.hg.1 | NOTUM |
| TC17001968.hg.1 | 2.13 | JUC17015092.hg.1 | NOTUM |
| TC20001728.hg.1 | 2.57 | PSR20000508.hg.1 | PTPRA |
| TC20001728.hg.1 | 2.4 | JUC20009748.hg.1 | PTPRA |
| TC20001728.hg.1 | 2.24 | JUC20009730.hg.1 | PTPRA |
| TC20001728.hg.1 | -3.29 | JUC20009736.hg.1 | PTPRA |
| TC02000299.hg.1 | 2.56 | JUC02002364.hg.1 | MSH6 |
| TC02000299.hg.1 | 2.44 | PSR02004544.hg.1 | MSH6 |
| TC03001778.hg.1 | 2.56 | JUC03016039.hg.1 | PIK3R4 |
| TC03001778.hg.1 | -2.03 | JUC03016030.hg.1 | PIK3R4 |
| TC03001778.hg.1 | -2.37 | PSR03032244.hg.1 | PIK3R4 |
| TC03001778.hg.1 | -3.09 | JUC03016040.hg.1 | PIK3R4 |
| TC04000030.hg.1 | 2.56 | PSR04000729.hg.1 | WHSC1 |
| TC04000030.hg.1 | 2.44 | JUC04000327.hg.1 | WHSC1 |
| TC04000030.hg.1 | 2.24 | JUC04000336.hg.1 | WHSC1 |
| TC04000030.hg.1 | 2.03 | PSR04000705.hg.1 | WHSC1 |
| TC04000030.hg.1 | -2 | JUC04000338.hg.1 | WHSC1 |
| TC04000030.hg.1 | -2.01 | JUC04000340.hg.1 | WHSC1 |
| TC04000030.hg.1 | -2.08 | JUC04000310.hg.1 | WHSC1 |
| TC04000030.hg.1 | -2.13 | JUC04000312.hg.1 | WHSC1 |
| TC04000030.hg.1 | -2.72 | JUC04000307.hg.1 | WHSC1 |
| TC04000030.hg.1 | -3 | JUC04000333.hg.1 | WHSC1 |
| TC04000030.hg.1 | -5.43 | JUC04000301.hg.1 | WHSC1 |
| TC05000659.hg.1 | 2.56 | JUC05004908.hg.1 | UBE2B |
| TC05000659.hg.1 | 2.3 | PSR05009133.hg.1 | UBE2B |
| TC05001491.hg.1 | 2.56 | JUC05010560.hg.1 | COL4A3BP |
| TC05001491.hg.1 | 2.46 | JUC05010561.hg.1 | COL4A3BP |
| TC05001491.hg.1 | 2.05 | PSR05020470.hg.1 | COL4A3BP |
| TC07001073.hg.1 | 2.56 | JUC07007986.hg.1 | PDGFA |

| | | | |
|-----------------|--------|------------------|-----------|
| TC07001073.hg.1 | -2.15 | PSR07016436.hg.1 | PDGFA |
| TC07001073.hg.1 | -2.32 | PSR07016433.hg.1 | PDGFA |
| TC07001073.hg.1 | -2.49 | PSR07016437.hg.1 | PDGFA |
| TC07001073.hg.1 | -2.5 | PSR07016435.hg.1 | PDGFA |
| TC07001073.hg.1 | -2.58 | PSR07016422.hg.1 | PDGFA |
| TC07001073.hg.1 | -2.78 | PSR07016432.hg.1 | PDGFA |
| TC10000090.hg.1 | 2.56 | JUC10000522.hg.1 | SEC61A2 |
| TC10000090.hg.1 | 2.1 | JUC10000504.hg.1 | SEC61A2 |
| TC10000090.hg.1 | -2.57 | JUC10000501.hg.1 | SEC61A2 |
| TC10000090.hg.1 | -2.65 | PSR10000957.hg.1 | SEC61A2 |
| TC10001136.hg.1 | 2.56 | JUC10008254.hg.1 | MPP7 |
| TC10001136.hg.1 | -2 | JUC10008257.hg.1 | MPP7 |
| TC10001136.hg.1 | -2.8 | PSR10014271.hg.1 | MPP7 |
| TC10001526.hg.1 | 2.56 | JUC10011156.hg.1 | CPEB3 |
| TC10001526.hg.1 | 2.55 | PSR10019172.hg.1 | CPEB3 |
| TC10001526.hg.1 | 2.14 | JUC10011150.hg.1 | CPEB3 |
| TC10001526.hg.1 | -2.08 | JUC10011145.hg.1 | CPEB3 |
| TC10001526.hg.1 | -2.18 | JUC10011154.hg.1 | CPEB3 |
| TC10001546.hg.1 | 2.56 | JUC10011343.hg.1 | CYP2C8 |
| TC10001546.hg.1 | 2.21 | PSR10019450.hg.1 | CYP2C8 |
| TC10001546.hg.1 | -2.06 | PSR10019456.hg.1 | CYP2C8 |
| TC10001546.hg.1 | -2.35 | JUC10011342.hg.1 | CYP2C8 |
| TC11000399.hg.1 | 2.56 | JUC11002695.hg.1 | ATG13 |
| TC11000399.hg.1 | 2.3 | PSR11005010.hg.1 | ATG13 |
| TC11000399.hg.1 | 2.03 | JUC11002711.hg.1 | ATG13 |
| TC11002228.hg.1 | 2.56 | JUC11014158.hg.1 | MMP7 |
| TC11002228.hg.1 | 2.05 | JUC11014162.hg.1 | MMP7 |
| TC11002228.hg.1 | -2.69 | PSR11026620.hg.1 | MMP7 |
| TC11002228.hg.1 | -3.26 | PSR11026617.hg.1 | MMP7 |
| TC11002228.hg.1 | -15.42 | PSR11026615.hg.1 | MMP7 |
| TC13000754.hg.1 | 2.56 | JUC13005110.hg.1 | RNF219 |
| TC13000754.hg.1 | 2.04 | PSR13008699.hg.1 | RNF219 |
| TC13000754.hg.1 | -2.04 | JUC13005107.hg.1 | RNF219 |
| TC15000410.hg.1 | 2.56 | JUC15001823.hg.1 | TMOD2 |
| TC15000410.hg.1 | -2.07 | PSR15003831.hg.1 | TMOD2 |
| TC15001772.hg.1 | 2.56 | PSR15017377.hg.1 | LOC388152 |
| TC15001772.hg.1 | 2.09 | PSR15017355.hg.1 | LOC388152 |
| TC15001772.hg.1 | -2.13 | PSR15017354.hg.1 | LOC388152 |
| TC15001772.hg.1 | -2.4 | JUC15009477.hg.1 | LOC388152 |
| TC15001772.hg.1 | -2.66 | JUC15009490.hg.1 | LOC388152 |
| TC16000488.hg.1 | 2.56 | PSR16006788.hg.1 | CX3CL1 |
| TC16000488.hg.1 | -2.07 | JUC16003848.hg.1 | CX3CL1 |
| TC16001252.hg.1 | 2.56 | JUC16009862.hg.1 | AP1G1 |
| TC16001252.hg.1 | 2.08 | PSR16017434.hg.1 | AP1G1 |
| TC17000906.hg.1 | 2.56 | PSR17011763.hg.1 | C1QTNF1 |
| TC17000906.hg.1 | 2.41 | PSR17011761.hg.1 | C1QTNF1 |
| TC17000906.hg.1 | 2.02 | JUC17006589.hg.1 | C1QTNF1 |
| TC17000906.hg.1 | -3.04 | JUC17006595.hg.1 | C1QTNF1 |
| TC18000507.hg.1 | 2.56 | JUC18003556.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.2 | PSR18005304.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.32 | JUC18003545.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.37 | PSR18005306.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.43 | JUC18003565.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.45 | JUC18003555.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.79 | JUC18003552.hg.1 | MYO5B |
| TC18000507.hg.1 | -2.83 | JUC18003532.hg.1 | MYO5B |
| TC01000992.hg.1 | 2.55 | PSR01015797.hg.1 | MOV10 |
| TC01000992.hg.1 | 2.45 | PSR01015807.hg.1 | MOV10 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01000992.hg.1 | 2.34 | PSR01015759.hg.1 | MOV10 |
| TC01000992.hg.1 | 2.3 | JUC01008255.hg.1 | MOV10 |
| TC01000992.hg.1 | 2.11 | PSR01015821.hg.1 | MOV10 |
| TC01000992.hg.1 | 2.06 | JUC01008236.hg.1 | MOV10 |
| TC01000992.hg.1 | 2.06 | JUC01008246.hg.1 | MOV10 |
| TC01000992.hg.1 | -2.21 | PSR01015787.hg.1 | MOV10 |
| TC01000992.hg.1 | -3.25 | JUC01008243.hg.1 | MOV10 |
| TC01002425.hg.1 | 2.55 | JUC01020090.hg.1 | SNORA61, SI |
| TC01002425.hg.1 | 2.24 | PSR01037391.hg.1 | SNORA61, SI |
| TC01002425.hg.1 | -2.3 | PSR01037361.hg.1 | SNORA61, SI |
| TC01002425.hg.1 | -2.86 | JUC01020093.hg.1 | SNORA61, SI |
| TC01002425.hg.1 | -4.64 | JUC01020092.hg.1 | SNORA61, SI |
| TC01006353.hg.1 | 2.55 | JUC01044398.hg.1 | MKNK1 |
| TC01006353.hg.1 | 2.09 | PSR01040954.hg.1 | MKNK1 |
| TC01006353.hg.1 | 2.08 | JUC01044391.hg.1 | MKNK1 |
| TC01006353.hg.1 | -2.3 | PSR01040945.hg.1 | MKNK1 |
| TC01006353.hg.1 | -2.67 | JUC01044400.hg.1 | MKNK1 |
| TC02001683.hg.1 | 2.55 | PSR02027164.hg.1 | EIF2B4 |
| TC02001683.hg.1 | 2.32 | PSR02027168.hg.1 | EIF2B4 |
| TC02001683.hg.1 | 2.29 | JUC02014183.hg.1 | EIF2B4 |
| TC02001683.hg.1 | 2.08 | PSR02027198.hg.1 | EIF2B4 |
| TC04000029.hg.1 | 2.55 | JUC04000277.hg.1 | FGFR3 |
| TC04000029.hg.1 | 2.47 | PSR04000641.hg.1 | FGFR3 |
| TC06001727.hg.1 | 2.55 | JUC06009788.hg.1 | CCND3 |
| TC06001727.hg.1 | 2.03 | PSR06020649.hg.1 | CCND3 |
| TC06001727.hg.1 | -2.11 | PSR06020638.hg.1 | CCND3 |
| TC06001727.hg.1 | -2.19 | PSR06020656.hg.1 | CCND3 |
| TC06001727.hg.1 | -2.44 | JUC06009785.hg.1 | CCND3 |
| TC06001727.hg.1 | -2.58 | PSR06020659.hg.1 | CCND3 |
| TC07000324.hg.1 | 2.55 | JUC07002355.hg.1 | LOC285878, |
| TC07000324.hg.1 | -2.45 | JUC07002363.hg.1 | LOC285878, |
| TC07000324.hg.1 | -2.84 | PSR07004813.hg.1 | LOC285878, |
| TC07000324.hg.1 | -3.02 | JUC07002357.hg.1 | LOC285878, |
| TC08001035.hg.1 | 2.55 | JUC08006860.hg.1 | LGI3 |
| TC08001035.hg.1 | 2.32 | JUC08006861.hg.1 | LGI3 |
| TC08001035.hg.1 | 2.14 | PSR08013208.hg.1 | LGI3 |
| TC08001361.hg.1 | 2.55 | JUC08008950.hg.1 | PAG1 |
| TC08001361.hg.1 | 2.04 | PSR08017576.hg.1 | PAG1 |
| TC09000607.hg.1 | 2.55 | PSR09006884.hg.1 | CNTRL |
| TC09000607.hg.1 | 2.39 | JUC09003797.hg.1 | CNTRL |
| TC09000607.hg.1 | 2.32 | JUC09003826.hg.1 | CNTRL |
| TC09000607.hg.1 | 2.07 | JUC09003824.hg.1 | CNTRL |
| TC09000607.hg.1 | 2.03 | JUC09003811.hg.1 | CNTRL |
| TC09001541.hg.1 | 2.55 | JUC09010498.hg.1 | TRAF1 |
| TC09001541.hg.1 | 2.3 | PSR09019379.hg.1 | TRAF1 |
| TC0X001513.hg.1 | 2.55 | JUC0X009938.hg.1 | TREX2, HAU: |
| TC0X001513.hg.1 | -2.03 | PSR0X019661.hg.1 | TREX2, HAU: |
| TC0X001513.hg.1 | -2.38 | PSR0X019660.hg.1 | TREX2, HAU: |
| TC0X001513.hg.1 | -2.7 | PSR0X019663.hg.1 | TREX2, HAU: |
| TC0X001513.hg.1 | -3.52 | JUC0X009941.hg.1 | TREX2, HAU: |
| TC0X001513.hg.1 | -4.3 | PSR0X019662.hg.1 | TREX2, HAU: |
| TC10000623.hg.1 | 2.55 | JUC10003897.hg.1 | PTEN |
| TC10000623.hg.1 | -2.03 | PSR10006855.hg.1 | PTEN |
| TC11000870.hg.1 | 2.55 | JUC11005763.hg.1 | EED |
| TC11000870.hg.1 | 2.02 | JUC11005761.hg.1 | EED |
| TC11000870.hg.1 | -2.82 | PSR11010996.hg.1 | EED |
| TC12002096.hg.1 | 2.55 | PSR12027754.hg.1 | NCOR2 |
| TC12002096.hg.1 | 2.26 | JUC12015589.hg.1 | NCOR2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12002096.hg.1 | -2.2 | JUC12015580.hg.1 | NCOR2 |
| TC13000105.hg.1 | 2.55 | JUC13000583.hg.1 | B3GALTL |
| TC13000105.hg.1 | 2.14 | PSR13001011.hg.1 | B3GALTL |
| TC13000105.hg.1 | -2.01 | PSR13001017.hg.1 | B3GALTL |
| TC14000323.hg.1 | 2.55 | JUC14001670.hg.1 | LGALS3 |
| TC14000323.hg.1 | -2.19 | PSR14003452.hg.1 | LGALS3 |
| TC14000323.hg.1 | -2.46 | JUC14001665.hg.1 | LGALS3 |
| TC14001122.hg.1 | 2.55 | PSR14012710.hg.1 | SAV1 |
| TC14001122.hg.1 | 2.4 | JUC14006403.hg.1 | SAV1 |
| TC14001122.hg.1 | 2.2 | JUC14006404.hg.1 | SAV1 |
| TC14001122.hg.1 | 2.01 | PSR14012708.hg.1 | SAV1 |
| TC14001122.hg.1 | -2.98 | JUC14006405.hg.1 | SAV1 |
| TC14001122.hg.1 | -3.14 | PSR14012703.hg.1 | SAV1 |
| TC15000756.hg.1 | 2.55 | JUC15003516.hg.1 | IL16 |
| TC15000756.hg.1 | 2.13 | JUC15003541.hg.1 | IL16 |
| TC15000756.hg.1 | -2.08 | JUC15003531.hg.1 | IL16 |
| TC15000756.hg.1 | -2.11 | JUC15003545.hg.1 | IL16 |
| TC15000756.hg.1 | -2.19 | PSR15006901.hg.1 | IL16 |
| TC15000756.hg.1 | -2.37 | PSR15006895.hg.1 | IL16 |
| TC15000756.hg.1 | -2.38 | JUC15003542.hg.1 | IL16 |
| TC15000756.hg.1 | -2.41 | JUC15003538.hg.1 | IL16 |
| TC15000756.hg.1 | -4.52 | JUC15003532.hg.1 | IL16 |
| TC16000192.hg.1 | 2.55 | JUC16001468.hg.1 | MIR484, NDE |
| TC16000192.hg.1 | 2.15 | PSR16002836.hg.1 | MIR484, NDE |
| TC16000192.hg.1 | 2.02 | PSR16002852.hg.1 | MIR484, NDE |
| TC03001862.hg.1 | 2.55 | JUC03016708.hg.1 | SLC9A9 |
| TC03001862.hg.1 | 2 | PSR03033601.hg.1 | SLC9A9 |
| TC08000126.hg.1 | 2.55 | JUC08000635.hg.1 | VPS37A |
| TC08000126.hg.1 | 2 | PSR08001174.hg.1 | VPS37A |
| TC08000126.hg.1 | 2 | JUC08000623.hg.1 | VPS37A |
| TC01001552.hg.1 | 2.54 | JUC01012670.hg.1 | AXDND1 |
| TC01001552.hg.1 | 2.31 | JUC01012650.hg.1 | AXDND1 |
| TC01001552.hg.1 | 2.29 | PSR01023941.hg.1 | AXDND1 |
| TC01001552.hg.1 | -2.31 | JUC01012648.hg.1 | AXDND1 |
| TC01002199.hg.1 | 2.54 | PSR01034015.hg.1 | FBXO2 |
| TC01002199.hg.1 | 2.28 | PSR01034011.hg.1 | FBXO2 |
| TC01002199.hg.1 | 2.13 | PSR01034019.hg.1 | FBXO2 |
| TC01002199.hg.1 | 2.09 | PSR01034014.hg.1 | FBXO2 |
| TC01002199.hg.1 | 2.07 | JUC01018254.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.02 | PSR01034007.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.05 | JUC01018255.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.07 | PSR01033995.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.09 | PSR01033994.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.2 | JUC01018253.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.28 | JUC01018246.hg.1 | FBXO2 |
| TC01002199.hg.1 | -2.74 | JUC01018245.hg.1 | FBXO2 |
| TC01003659.hg.1 | 2.54 | JUC01029296.hg.1 | KCNT2 |
| TC01003659.hg.1 | 2.41 | JUC01029293.hg.1 | KCNT2 |
| TC01003659.hg.1 | 2.4 | JUC01029277.hg.1 | KCNT2 |
| TC01003659.hg.1 | 2.31 | PSR01056117.hg.1 | KCNT2 |
| TC01003659.hg.1 | 2.27 | JUC01029291.hg.1 | KCNT2 |
| TC01003659.hg.1 | 2.2 | JUC01029266.hg.1 | KCNT2 |
| TC01003659.hg.1 | -2.12 | JUC01029273.hg.1 | KCNT2 |
| TC01003659.hg.1 | -2.2 | PSR01056107.hg.1 | KCNT2 |
| TC01003659.hg.1 | -2.3 | JUC01029302.hg.1 | KCNT2 |
| TC01003659.hg.1 | -2.46 | JUC01029298.hg.1 | KCNT2 |
| TC01003659.hg.1 | -2.54 | JUC01029271.hg.1 | KCNT2 |
| TC01006283.hg.1 | 2.54 | PSR01016656.hg.1 | |

| | | | |
|-----------------|-------|------------------|---------------|
| TC01006283.hg.1 | 2.22 | JUC01039186.hg.1 | |
| TC01006283.hg.1 | 2.21 | JUC01039189.hg.1 | |
| TC01006283.hg.1 | -2.25 | JUC01039199.hg.1 | |
| TC02000617.hg.1 | 2.54 | JUC02005166.hg.1 | MAP4K4 |
| TC02000617.hg.1 | 2.34 | JUC02005161.hg.1 | MAP4K4 |
| TC02000617.hg.1 | 2.08 | PSR02009711.hg.1 | MAP4K4 |
| TC06000385.hg.1 | 2.54 | JUC06001653.hg.1 | HSPA1B, HSF1 |
| TC06000385.hg.1 | -2.43 | PSR06003980.hg.1 | HSPA1B, HSF1 |
| TC06000385.hg.1 | -2.55 | JUC06001654.hg.1 | HSPA1B, HSF1 |
| TC07001978.hg.1 | 2.54 | JUC07015110.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.04 | PSR07030509.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.05 | PSR07030524.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.06 | PSR07030495.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.07 | PSR07030485.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.07 | PSR07030496.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.15 | PSR07030484.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.16 | PSR07030498.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.16 | PSR07030521.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.21 | PSR07030522.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.22 | PSR07030513.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.23 | JUC07015094.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.34 | JUC07015095.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.36 | PSR07030506.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.37 | JUC07015113.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.38 | PSR07030499.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.5 | PSR07030504.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.63 | PSR07030505.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.65 | JUC07015123.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.75 | JUC07015126.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -2.98 | PSR07030514.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -3.08 | PSR07030502.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -3.11 | PSR07030501.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -3.17 | PSR07030503.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -3.28 | JUC07015112.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -3.79 | PSR07030515.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -4.71 | JUC07015106.hg.1 | OR2A9P, OR2A9 |
| TC07001978.hg.1 | -4.89 | JUC07015115.hg.1 | OR2A9P, OR2A9 |
| TC08001489.hg.1 | 2.54 | JUC08009876.hg.1 | ZNF706 |
| TC08001489.hg.1 | -2.03 | PSR08019434.hg.1 | ZNF706 |
| TC08001489.hg.1 | -2.12 | PSR08019454.hg.1 | ZNF706 |
| TC08001489.hg.1 | -2.38 | PSR08019452.hg.1 | ZNF706 |
| TC08001489.hg.1 | -3.57 | JUC08009873.hg.1 | ZNF706 |
| TC0X000858.hg.1 | 2.54 | JUC0X005643.hg.1 | ARHGAP6 |
| TC0X000858.hg.1 | 2.38 | PSR0X011452.hg.1 | ARHGAP6 |
| TC0X000858.hg.1 | 2.01 | PSR0X011473.hg.1 | ARHGAP6 |
| TC0X000858.hg.1 | -2.15 | JUC0X005630.hg.1 | ARHGAP6 |
| TC10000086.hg.1 | 2.54 | PSR10000883.hg.1 | ECHDC3 |
| TC10000086.hg.1 | 2.22 | JUC10000465.hg.1 | ECHDC3 |
| TC10000086.hg.1 | 2.12 | PSR10000889.hg.1 | ECHDC3 |
| TC10000086.hg.1 | 2 | PSR10000882.hg.1 | ECHDC3 |
| TC10000086.hg.1 | -2.21 | PSR10000887.hg.1 | ECHDC3 |
| TC10000086.hg.1 | -2.95 | JUC10000464.hg.1 | ECHDC3 |
| TC10001144.hg.1 | 2.54 | JUC10008319.hg.1 | SVIL |
| TC10001144.hg.1 | 2.15 | JUC10008287.hg.1 | SVIL |
| TC10001144.hg.1 | 2.03 | PSR10014375.hg.1 | SVIL |
| TC10001144.hg.1 | -2.16 | JUC10008315.hg.1 | SVIL |
| TC10001144.hg.1 | -2.25 | JUC10008294.hg.1 | SVIL |
| TC10001144.hg.1 | -3.69 | JUC10008312.hg.1 | SVIL |

| | | | |
|-----------------|--------|------------------|--------|
| TC10001144.hg.1 | -4.17 | JUC10008305.hg.1 | SVIL |
| TC19000795.hg.1 | 2.54 | JUC19006552.hg.1 | ZNF480 |
| TC19000795.hg.1 | 2.09 | JUC19006550.hg.1 | ZNF480 |
| TC19000795.hg.1 | -3.64 | PSR19011176.hg.1 | ZNF480 |
| TC19001242.hg.1 | 2.54 | JUC19010129.hg.1 | EMR2 |
| TC19001242.hg.1 | 2.11 | JUC19010150.hg.1 | EMR2 |
| TC19001242.hg.1 | 2.04 | JUC19010143.hg.1 | EMR2 |
| TC19001242.hg.1 | -2.03 | PSR19017464.hg.1 | EMR2 |
| TC19001242.hg.1 | -2.93 | JUC19010128.hg.1 | EMR2 |
| TC19001242.hg.1 | -3.62 | PSR19017442.hg.1 | EMR2 |
| TC20000358.hg.1 | 2.54 | PSR20005133.hg.1 | SNX21 |
| TC20000358.hg.1 | 2.29 | JUC20002791.hg.1 | SNX21 |
| TC20000358.hg.1 | 2.08 | PSR20005123.hg.1 | SNX21 |
| TC20000358.hg.1 | 2.08 | JUC20002798.hg.1 | SNX21 |
| TC20000358.hg.1 | 2.01 | JUC20002792.hg.1 | SNX21 |
| TC01000427.hg.1 | 2.53 | PSR01006577.hg.1 | HDAC1 |
| TC01000427.hg.1 | -2.1 | JUC01003437.hg.1 | HDAC1 |
| TC01000427.hg.1 | -2.53 | PSR01006585.hg.1 | HDAC1 |
| TC02001795.hg.1 | 2.53 | PSR02028825.hg.1 | LRPPRC |
| TC02001795.hg.1 | 2.36 | JUC02015137.hg.1 | LRPPRC |
| TC02001795.hg.1 | 2.22 | PSR02028881.hg.1 | LRPPRC |
| TC02001795.hg.1 | 2.1 | JUC02015154.hg.1 | LRPPRC |
| TC02001795.hg.1 | 2.07 | JUC02015145.hg.1 | LRPPRC |
| TC04001816.hg.1 | 2.53 | JUC04013152.hg.1 | UFSP2 |
| TC04001816.hg.1 | 2.28 | JUC04013148.hg.1 | UFSP2 |
| TC04001816.hg.1 | 2.26 | PSR04024778.hg.1 | UFSP2 |
| TC04001816.hg.1 | -2.28 | JUC04013141.hg.1 | UFSP2 |
| TC05000291.hg.1 | 2.53 | PSR05003787.hg.1 | PIK3R1 |
| TC05000291.hg.1 | 2.45 | PSR05003788.hg.1 | PIK3R1 |
| TC05000291.hg.1 | 2.31 | JUC05002032.hg.1 | PIK3R1 |
| TC05000291.hg.1 | 2.27 | PSR05003785.hg.1 | PIK3R1 |
| TC05000291.hg.1 | 2.17 | JUC05002048.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -2.24 | JUC05002053.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -2.53 | PSR05003806.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -2.61 | PSR05003807.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -3.72 | JUC05002036.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -3.81 | JUC05002046.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -4.93 | JUC05002049.hg.1 | PIK3R1 |
| TC05000291.hg.1 | -10.77 | PSR05003801.hg.1 | PIK3R1 |
| TC09000128.hg.1 | 2.53 | JUC09000792.hg.1 | ACO1 |
| TC09000128.hg.1 | 2.24 | JUC09000784.hg.1 | ACO1 |
| TC09000128.hg.1 | 2.22 | PSR09001459.hg.1 | ACO1 |
| TC09000128.hg.1 | 2.08 | JUC09000779.hg.1 | ACO1 |
| TC09000128.hg.1 | 2.07 | PSR09001460.hg.1 | ACO1 |
| TC10001309.hg.1 | 2.53 | PSR10016371.hg.1 | ZWINT |
| TC10001309.hg.1 | 2.51 | JUC10009571.hg.1 | ZWINT |
| TC13000021.hg.1 | 2.53 | PSR13000098.hg.1 | ZMYM2 |
| TC13000021.hg.1 | -2.01 | PSR13000138.hg.1 | ZMYM2 |
| TC13000021.hg.1 | -2.05 | JUC13000071.hg.1 | ZMYM2 |
| TC13000021.hg.1 | -2.08 | JUC13000052.hg.1 | ZMYM2 |
| TC15000647.hg.1 | 2.53 | JUC15002776.hg.1 | LRRC49 |
| TC15000647.hg.1 | 2.2 | PSR15005505.hg.1 | LRRC49 |
| TC15000647.hg.1 | 2.09 | JUC15002788.hg.1 | LRRC49 |
| TC15000647.hg.1 | -2.21 | JUC15002774.hg.1 | LRRC49 |
| TC15000647.hg.1 | -2.37 | JUC15002772.hg.1 | LRRC49 |
| TC15000647.hg.1 | -2.37 | JUC15002785.hg.1 | LRRC49 |
| TC16001169.hg.1 | 2.53 | JUC16009135.hg.1 | TK2 |
| TC16001169.hg.1 | -2.26 | JUC16009148.hg.1 | TK2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC16001169.hg.1 | -2.47 | PSR16016223.hg.1 | TK2 |
| TC19000674.hg.1 | 2.53 | JUC19005602.hg.1 | CCDC9 |
| TC19000674.hg.1 | -2.16 | PSR19009429.hg.1 | CCDC9 |
| TC20000372.hg.1 | 2.53 | JUC20002951.hg.1 | NCOA3 |
| TC20000372.hg.1 | -2.04 | JUC20002939.hg.1 | NCOA3 |
| TC20000372.hg.1 | -2.77 | JUC20002934.hg.1 | NCOA3 |
| TC20000372.hg.1 | -2.91 | JUC20002935.hg.1 | NCOA3 |
| TC20000372.hg.1 | -3.32 | PSR20005402.hg.1 | NCOA3 |
| TC22000652.hg.1 | 2.53 | JUC22004673.hg.1 | RNF215, KIA |
| TC22000652.hg.1 | 2.16 | PSR22011466.hg.1 | RNF215, KIA |
| TC22000652.hg.1 | 2.06 | JUC22004674.hg.1 | RNF215, KIA |
| TC22000652.hg.1 | 2.04 | JUC22004675.hg.1 | RNF215, KIA |
| TC18000070.hg.1 | 2.53 | JUC18000483.hg.1 | CEP192 |
| TC18000070.hg.1 | 2 | PSR18000805.hg.1 | CEP192 |
| TC18000070.hg.1 | -2.95 | JUC18000447.hg.1 | CEP192 |
| TC01006366.hg.1 | 2.52 | PSR01046950.hg.1 | DENND2C |
| TC01006366.hg.1 | -2.05 | JUC01044598.hg.1 | DENND2C |
| TC01006366.hg.1 | -2.34 | PSR01046977.hg.1 | DENND2C |
| TC02000721.hg.1 | 2.52 | PSR02011174.hg.1 | PSD4 |
| TC02000721.hg.1 | 2.37 | PSR02011186.hg.1 | PSD4 |
| TC02000721.hg.1 | 2.27 | JUC02005924.hg.1 | PSD4 |
| TC03000024.hg.1 | 2.52 | JUC03000279.hg.1 | GRM7 |
| TC03000024.hg.1 | 2.12 | JUC03000296.hg.1 | GRM7 |
| TC03000024.hg.1 | -2.26 | PSR03000486.hg.1 | GRM7 |
| TC04000641.hg.1 | 2.52 | JUC04004937.hg.1 | INTU |
| TC04000641.hg.1 | 2.17 | JUC04004945.hg.1 | INTU |
| TC04000641.hg.1 | 2.12 | JUC04004925.hg.1 | INTU |
| TC04000641.hg.1 | -2 | PSR04009249.hg.1 | INTU |
| TC04000641.hg.1 | -2.33 | PSR04009257.hg.1 | INTU |
| TC05000575.hg.1 | 2.52 | JUC05004381.hg.1 | SNCAIP |
| TC05000575.hg.1 | 2.03 | PSR05008049.hg.1 | SNCAIP |
| TC05000575.hg.1 | 2 | PSR05008043.hg.1 | SNCAIP |
| TC05000575.hg.1 | -2.3 | JUC05004371.hg.1 | SNCAIP |
| TC05001342.hg.1 | 2.52 | PSR05018856.hg.1 | MOCS2 |
| TC05001342.hg.1 | -2.12 | JUC05009687.hg.1 | MOCS2 |
| TC05001820.hg.1 | 2.52 | JUC05012694.hg.1 | |
| TC05001820.hg.1 | -2.04 | PSR05024738.hg.1 | |
| TC06000628.hg.1 | 2.52 | JUC06003371.hg.1 | SLC25A27 |
| TC06000628.hg.1 | 2.09 | PSR06007597.hg.1 | SLC25A27 |
| TC06000628.hg.1 | 2 | PSR06007595.hg.1 | SLC25A27 |
| TC06000628.hg.1 | 2 | JUC06003366.hg.1 | SLC25A27 |
| TC07001997.hg.1 | 2.52 | JUC07015220.hg.1 | ZNF425 |
| TC07001997.hg.1 | 2.48 | PSR07030700.hg.1 | ZNF425 |
| TC07001997.hg.1 | 2.45 | PSR07030693.hg.1 | ZNF425 |
| TC07001997.hg.1 | 2.26 | PSR07030697.hg.1 | ZNF425 |
| TC07001997.hg.1 | 2.08 | PSR07030698.hg.1 | ZNF425 |
| TC10000982.hg.1 | 2.52 | JUC10007139.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -2.04 | PSR10012331.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -2.09 | PSR10012325.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -2.36 | JUC10007140.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -2.54 | PSR10012334.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -3.38 | JUC10007146.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -3.42 | JUC10007148.hg.1 | LOC1002160 |
| TC10000982.hg.1 | -3.66 | PSR10012333.hg.1 | LOC1002160 |
| TC11001302.hg.1 | 2.52 | JUC11008919.hg.1 | NUP98 |
| TC11001302.hg.1 | 2.29 | PSR11016593.hg.1 | NUP98 |
| TC11001302.hg.1 | -2.03 | JUC11008905.hg.1 | NUP98 |
| TC11001302.hg.1 | -2.39 | JUC11008906.hg.1 | NUP98 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC12001426.hg.1 | 2.52 | JUC12010285.hg.1 | SLC38A1 |
| TC12001426.hg.1 | -2.11 | PSR12018425.hg.1 | SLC38A1 |
| TC14002325.hg.1 | 2.52 | JUC14012126.hg.1 | C14orf149 |
| TC14002325.hg.1 | 2.03 | PSR14013488.hg.1 | C14orf149 |
| TC14002325.hg.1 | -3.53 | JUC14012124.hg.1 | C14orf149 |
| TC15000035.hg.1 | 2.52 | JUC15000177.hg.1 | GOLGA8E, G |
| TC15000035.hg.1 | 2.37 | PSR15000245.hg.1 | GOLGA8E, G |
| TC15000035.hg.1 | -2.03 | PSR15000249.hg.1 | GOLGA8E, G |
| TC16000372.hg.1 | 2.52 | PSR16005461.hg.1 | FUS |
| TC16000372.hg.1 | 2.28 | JUC16002978.hg.1 | FUS |
| TC21000388.hg.1 | 2.52 | JUC21002254.hg.1 | TIAM1 |
| TC21000388.hg.1 | 2.47 | JUC21002273.hg.1 | TIAM1 |
| TC21000388.hg.1 | 2.09 | PSR21004286.hg.1 | TIAM1 |
| TC21000388.hg.1 | 2.01 | JUC21002257.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2 | PSR21004270.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2 | JUC21002260.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2.25 | JUC21002278.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2.38 | JUC21002243.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2.69 | PSR21004253.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2.74 | PSR21004283.hg.1 | TIAM1 |
| TC21000388.hg.1 | -2.76 | JUC21002277.hg.1 | TIAM1 |
| TC01001807.hg.1 | 2.51 | PSR01028204.hg.1 | LYPLAL1 |
| TC01001807.hg.1 | 2.38 | JUC01015213.hg.1 | LYPLAL1 |
| TC01001807.hg.1 | -2.08 | JUC01015201.hg.1 | LYPLAL1 |
| TC01001807.hg.1 | -4.02 | JUC01015207.hg.1 | LYPLAL1 |
| TC03000815.hg.1 | 2.51 | JUC03007378.hg.1 | EIF2A |
| TC03000815.hg.1 | -2.16 | PSR03014649.hg.1 | EIF2A |
| TC03000815.hg.1 | -2.69 | PSR03014654.hg.1 | EIF2A |
| TC03000815.hg.1 | -3.79 | PSR03014651.hg.1 | EIF2A |
| TC03000815.hg.1 | -5.46 | JUC03007385.hg.1 | EIF2A |
| TC03000932.hg.1 | 2.51 | PSR03016204.hg.1 | NLGN1 |
| TC03000932.hg.1 | -3.29 | JUC03008258.hg.1 | NLGN1 |
| TC04001554.hg.1 | 2.51 | PSR04021865.hg.1 | PABPC4L |
| TC04001554.hg.1 | 2.19 | JUC04011525.hg.1 | PABPC4L |
| TC05000245.hg.1 | 2.51 | JUC05001689.hg.1 | SETD9 |
| TC05000245.hg.1 | -2.03 | PSR05003039.hg.1 | SETD9 |
| TC05000245.hg.1 | -2.11 | JUC05001682.hg.1 | SETD9 |
| TC05000245.hg.1 | -2.15 | JUC05001691.hg.1 | SETD9 |
| TC05000245.hg.1 | -2.92 | PSR05003023.hg.1 | SETD9 |
| TC05000245.hg.1 | -3.19 | JUC05001683.hg.1 | SETD9 |
| TC05000726.hg.1 | 2.51 | PSR05010336.hg.1 | EIF4EBP3, AI |
| TC05000726.hg.1 | -2.22 | JUC05005503.hg.1 | EIF4EBP3, AI |
| TC05000726.hg.1 | -2.52 | JUC05005473.hg.1 | EIF4EBP3, AI |
| TC05001482.hg.1 | 2.51 | JUC05010491.hg.1 | GFM2 |
| TC05001482.hg.1 | 2.07 | PSR05020352.hg.1 | GFM2 |
| TC05001482.hg.1 | -2.41 | PSR05020335.hg.1 | GFM2 |
| TC05003422.hg.1 | 2.51 | JUC05019554.hg.1 | AMACR |
| TC05003422.hg.1 | -2.02 | PSR05017509.hg.1 | AMACR |
| TC05003422.hg.1 | -2.15 | PSR05017508.hg.1 | AMACR |
| TC05003422.hg.1 | -4.27 | JUC05019551.hg.1 | AMACR |
| TC06000768.hg.1 | 2.51 | JUC06004304.hg.1 | DOPEY1 |
| TC06000768.hg.1 | 2.44 | PSR06009196.hg.1 | DOPEY1 |
| TC06000768.hg.1 | 2 | PSR06009220.hg.1 | DOPEY1 |
| TC06000768.hg.1 | -2.08 | JUC06004275.hg.1 | DOPEY1 |
| TC06000768.hg.1 | -2.21 | JUC06004278.hg.1 | DOPEY1 |
| TC06000768.hg.1 | -2.32 | JUC06004301.hg.1 | DOPEY1 |
| TC06000768.hg.1 | -2.39 | JUC06004266.hg.1 | DOPEY1 |
| TC06000768.hg.1 | -2.47 | JUC06004312.hg.1 | DOPEY1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06000768.hg.1 | -2.5 | PSR06009189.hg.1 | DOPEY1 |
| TC07001808.hg.1 | 2.51 | JUC07013767.hg.1 | FAM3C |
| TC07001808.hg.1 | 2.07 | JUC07013760.hg.1 | FAM3C |
| TC07001808.hg.1 | 2.02 | PSR07027983.hg.1 | FAM3C |
| TC09000891.hg.1 | 2.51 | JUC09006417.hg.1 | PLGRKT |
| TC09000891.hg.1 | -2.12 | JUC09006416.hg.1 | PLGRKT |
| TC09000891.hg.1 | -2.26 | PSR09011841.hg.1 | PLGRKT |
| TC09000891.hg.1 | -2.46 | JUC09006414.hg.1 | PLGRKT |
| TC09000891.hg.1 | -4.6 | JUC09006412.hg.1 | PLGRKT |
| TC09001379.hg.1 | 2.51 | PSR09017257.hg.1 | ZNF782 |
| TC09001379.hg.1 | 2.08 | JUC09009281.hg.1 | ZNF782 |
| TC09001379.hg.1 | -2.9 | JUC09009272.hg.1 | ZNF782 |
| TC11001716.hg.1 | 2.51 | JUC11010594.hg.1 | PHF21A |
| TC11001716.hg.1 | 2.09 | PSR11019976.hg.1 | PHF21A |
| TC11001716.hg.1 | -2.06 | JUC11010598.hg.1 | PHF21A |
| TC11001716.hg.1 | -3.3 | JUC11010588.hg.1 | PHF21A |
| TC11002004.hg.1 | 2.51 | PSR11024035.hg.1 | SUV420H1 |
| TC11002004.hg.1 | 2.19 | JUC11012694.hg.1 | SUV420H1 |
| TC11002004.hg.1 | -2.07 | JUC11012698.hg.1 | SUV420H1 |
| TC11002004.hg.1 | -2.08 | JUC11012682.hg.1 | SUV420H1 |
| TC11002004.hg.1 | -2.21 | JUC11012686.hg.1 | SUV420H1 |
| TC11002322.hg.1 | 2.51 | JUC11014787.hg.1 | BUD13 |
| TC11002322.hg.1 | -2.17 | PSR11027736.hg.1 | BUD13 |
| TC12001625.hg.1 | 2.51 | JUC12012090.hg.1 | DDIT3 |
| TC12001625.hg.1 | -2.02 | JUC12012092.hg.1 | DDIT3 |
| TC12001625.hg.1 | -2.05 | PSR12021963.hg.1 | DDIT3 |
| TC12001636.hg.1 | 2.51 | PSR12022141.hg.1 | AVIL |
| TC12001636.hg.1 | 2.34 | PSR12022135.hg.1 | AVIL |
| TC12001636.hg.1 | 2.12 | JUC12012204.hg.1 | AVIL |
| TC12001636.hg.1 | -2.14 | PSR12022163.hg.1 | AVIL |
| TC12001636.hg.1 | -2.23 | JUC12012206.hg.1 | AVIL |
| TC12001636.hg.1 | -2.32 | PSR12022155.hg.1 | AVIL |
| TC12001636.hg.1 | -2.46 | PSR12022154.hg.1 | AVIL |
| TC12001636.hg.1 | -2.51 | PSR12022165.hg.1 | AVIL |
| TC12001636.hg.1 | -2.68 | JUC12012190.hg.1 | AVIL |
| TC12001636.hg.1 | -2.79 | PSR12022160.hg.1 | AVIL |
| TC12001636.hg.1 | -3.17 | PSR12022161.hg.1 | AVIL |
| TC12001636.hg.1 | -3.66 | PSR12022162.hg.1 | AVIL |
| TC12001636.hg.1 | -3.92 | PSR12022144.hg.1 | AVIL |
| TC12001636.hg.1 | -8.52 | JUC12012203.hg.1 | AVIL |
| TC14000514.hg.1 | 2.51 | JUC14003254.hg.1 | FLRT2, LOC1 |
| TC14000514.hg.1 | 2.34 | PSR14006445.hg.1 | FLRT2, LOC1 |
| TC14000514.hg.1 | -2.07 | PSR14006446.hg.1 | FLRT2, LOC1 |
| TC15000164.hg.1 | 2.51 | JUC15000421.hg.1 | DKFZP434L1 |
| TC15000164.hg.1 | 2.41 | JUC15000429.hg.1 | DKFZP434L1 |
| TC15000164.hg.1 | 2.25 | PSR15001067.hg.1 | DKFZP434L1 |
| TC15000164.hg.1 | 2.2 | PSR15001063.hg.1 | DKFZP434L1 |
| TC15000164.hg.1 | 2.14 | PSR15001069.hg.1 | DKFZP434L1 |
| TC18000477.hg.1 | 2.51 | PSR18004909.hg.1 | PSTPIP2 |
| TC18000477.hg.1 | 2.18 | PSR18004926.hg.1 | PSTPIP2 |
| TC18000477.hg.1 | 2.05 | JUC18003322.hg.1 | PSTPIP2 |
| TC20000019.hg.1 | 2.51 | PSR20000225.hg.1 | SIRPA |
| TC20000019.hg.1 | 2.2 | PSR20000219.hg.1 | SIRPA |
| TC20000019.hg.1 | -2.53 | JUC20000114.hg.1 | SIRPA |
| TC20000019.hg.1 | -3.02 | JUC20000109.hg.1 | SIRPA |
| TC20000499.hg.1 | 2.51 | PSR20007010.hg.1 | COL9A3 |
| TC20000499.hg.1 | 2.44 | JUC20003722.hg.1 | COL9A3 |
| TC20000499.hg.1 | 2.41 | PSR20007037.hg.1 | COL9A3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC20000499.hg.1 | 2.41 | JUC20003724.hg.1 | COL9A3 |
| TC20000499.hg.1 | 2.02 | JUC20003734.hg.1 | COL9A3 |
| TC20000499.hg.1 | -2.1 | PSR20007061.hg.1 | COL9A3 |
| TC20000499.hg.1 | -3.2 | JUC20003708.hg.1 | COL9A3 |
| TC20000499.hg.1 | -27.1 | JUC20003723.hg.1 | COL9A3 |
| TC21001063.hg.1 | 2.51 | PSR21002180.hg.1 | NDUFV3 |
| TC21001063.hg.1 | -2.02 | JUC21005181.hg.1 | NDUFV3 |
| TC02002644.hg.1 | 2.5 | PSR02042411.hg.1 | PGAP1 |
| TC02002644.hg.1 | 2.33 | PSR02042402.hg.1 | PGAP1 |
| TC02002644.hg.1 | 2.11 | PSR02042370.hg.1 | PGAP1 |
| TC02002644.hg.1 | 2.04 | PSR02042386.hg.1 | PGAP1 |
| TC02002644.hg.1 | -2.63 | JUC02022166.hg.1 | PGAP1 |
| TC03001343.hg.1 | 2.5 | PSR03022943.hg.1 | ZDHHC3 |
| TC03001343.hg.1 | -2.97 | JUC03011438.hg.1 | ZDHHC3 |
| TC05001871.hg.1 | 2.5 | JUC05013134.hg.1 | HDAC3 |
| TC05001871.hg.1 | 2.28 | PSR05025762.hg.1 | HDAC3 |
| TC05001871.hg.1 | 2.23 | JUC05013132.hg.1 | HDAC3 |
| TC07000993.hg.1 | 2.5 | PSR07015079.hg.1 | ZNF862 |
| TC07000993.hg.1 | 2.09 | JUC07007367.hg.1 | ZNF862 |
| TC07000993.hg.1 | -2.01 | JUC07007364.hg.1 | ZNF862 |
| TC08001652.hg.1 | 2.5 | JUC08010944.hg.1 | KCNQ3 |
| TC08001652.hg.1 | 2.29 | PSR08021452.hg.1 | KCNQ3 |
| TC08001652.hg.1 | 2.24 | JUC08010946.hg.1 | KCNQ3 |
| TC08001652.hg.1 | 2.03 | PSR08021461.hg.1 | KCNQ3 |
| TC08001652.hg.1 | 2 | PSR08021463.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -2.11 | JUC08010948.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -2.19 | PSR08021438.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -2.3 | PSR08021439.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -2.46 | PSR08021444.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -2.65 | JUC08010954.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -3.83 | PSR08021447.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -5.66 | JUC08010945.hg.1 | KCNQ3 |
| TC08001652.hg.1 | -5.99 | PSR08021440.hg.1 | KCNQ3 |
| TC11002140.hg.1 | 2.5 | JUC11013587.hg.1 | ODZ4 |
| TC11002140.hg.1 | 2.22 | JUC11013570.hg.1 | ODZ4 |
| TC11002140.hg.1 | -2.05 | PSR11025617.hg.1 | ODZ4 |
| TC11002140.hg.1 | -2.31 | JUC11013573.hg.1 | ODZ4 |
| TC11002140.hg.1 | -2.43 | PSR11025607.hg.1 | ODZ4 |
| TC11002140.hg.1 | -2.7 | JUC11013576.hg.1 | ODZ4 |
| TC11002140.hg.1 | -2.73 | PSR11025618.hg.1 | ODZ4 |
| TC11002140.hg.1 | -2.91 | PSR11025586.hg.1 | ODZ4 |
| TC11002140.hg.1 | -3.05 | PSR11025612.hg.1 | ODZ4 |
| TC11002140.hg.1 | -3.21 | PSR11025620.hg.1 | ODZ4 |
| TC11002140.hg.1 | -3.41 | PSR11025611.hg.1 | ODZ4 |
| TC11002140.hg.1 | -4.47 | PSR11025627.hg.1 | ODZ4 |
| TC11002140.hg.1 | -5.68 | JUC11013592.hg.1 | ODZ4 |
| TC11002140.hg.1 | -5.7 | JUC11013572.hg.1 | ODZ4 |
| TC11002140.hg.1 | -6.56 | PSR11025625.hg.1 | ODZ4 |
| TC11002140.hg.1 | -8.6 | JUC11013601.hg.1 | ODZ4 |
| TC11002140.hg.1 | -8.63 | JUC11013571.hg.1 | ODZ4 |
| TC12001598.hg.1 | 2.5 | JUC12011779.hg.1 | RNF41 |
| TC12001598.hg.1 | 2.03 | PSR12021248.hg.1 | RNF41 |
| TC12001598.hg.1 | -2.97 | JUC12011784.hg.1 | RNF41 |
| TC18000018.hg.1 | 2.5 | JUC18000146.hg.1 | TGIF1 |
| TC18000018.hg.1 | 2.16 | PSR18000201.hg.1 | TGIF1 |
| TC18000018.hg.1 | 2.01 | PSR18000193.hg.1 | TGIF1 |
| TC18000018.hg.1 | -2.23 | PSR18000217.hg.1 | TGIF1 |
| TC19000589.hg.1 | 2.5 | JUC19004907.hg.1 | ARHGEF1 |

| | | | |
|-----------------|--------|------------------|---------|
| TC19000589.hg.1 | -2.06 | JUC19004886.hg.1 | ARHGEF1 |
| TC19000589.hg.1 | -2.39 | PSR19008192.hg.1 | ARHGEF1 |
| TC01000723.hg.1 | 2.49 | JUC01005941.hg.1 | ROR1 |
| TC01000723.hg.1 | 2.15 | JUC01005937.hg.1 | ROR1 |
| TC01000723.hg.1 | -2.23 | PSR01011484.hg.1 | ROR1 |
| TC01000723.hg.1 | -2.52 | JUC01005940.hg.1 | ROR1 |
| TC01000723.hg.1 | -2.54 | PSR01011489.hg.1 | ROR1 |
| TC01000723.hg.1 | -2.71 | PSR01011494.hg.1 | ROR1 |
| TC01000723.hg.1 | -2.75 | JUC01005938.hg.1 | ROR1 |
| TC01000723.hg.1 | -3.19 | JUC01005936.hg.1 | ROR1 |
| TC01000723.hg.1 | -4.44 | PSR01011482.hg.1 | ROR1 |
| TC01002485.hg.1 | 2.49 | JUC01020696.hg.1 | CSMD2 |
| TC01002485.hg.1 | 2.16 | JUC01020690.hg.1 | CSMD2 |
| TC01002485.hg.1 | -2.01 | PSR01038485.hg.1 | CSMD2 |
| TC01003892.hg.1 | 2.49 | JUC01031098.hg.1 | TMEM63A |
| TC01003892.hg.1 | -2.4 | PSR01059309.hg.1 | TMEM63A |
| TC02000295.hg.1 | 2.49 | JUC02002350.hg.1 | MSH2 |
| TC02000295.hg.1 | 2.33 | PSR02004483.hg.1 | MSH2 |
| TC02000295.hg.1 | -2.19 | JUC02002322.hg.1 | MSH2 |
| TC02004934.hg.1 | 2.49 | JUC02031447.hg.1 | ZNF512 |
| TC02004934.hg.1 | 2.13 | PSR02002420.hg.1 | ZNF512 |
| TC03000348.hg.1 | 2.49 | PSR03007646.hg.1 | PRKCD |
| TC03000348.hg.1 | 2.02 | JUC03003712.hg.1 | PRKCD |
| TC03000348.hg.1 | 2.01 | PSR03007651.hg.1 | PRKCD |
| TC03000348.hg.1 | -2.21 | JUC03003705.hg.1 | PRKCD |
| TC03000846.hg.1 | 2.49 | PSR03014959.hg.1 | MME |
| TC03000846.hg.1 | 2.42 | JUC03007599.hg.1 | MME |
| TC03000846.hg.1 | 2.01 | JUC03007602.hg.1 | MME |
| TC03000846.hg.1 | -2.45 | PSR03014963.hg.1 | MME |
| TC03000846.hg.1 | -2.67 | PSR03014960.hg.1 | MME |
| TC03000846.hg.1 | -2.85 | PSR03014953.hg.1 | MME |
| TC03000846.hg.1 | -3.58 | PSR03014955.hg.1 | MME |
| TC03000846.hg.1 | -3.64 | PSR03014969.hg.1 | MME |
| TC03000846.hg.1 | -3.79 | PSR03014948.hg.1 | MME |
| TC03000846.hg.1 | -4.44 | PSR03014949.hg.1 | MME |
| TC03000846.hg.1 | -4.5 | PSR03014954.hg.1 | MME |
| TC03000846.hg.1 | -5.83 | JUC03007582.hg.1 | MME |
| TC03000846.hg.1 | -7.08 | JUC03007581.hg.1 | MME |
| TC03000846.hg.1 | -8.5 | PSR03014967.hg.1 | MME |
| TC03000846.hg.1 | -8.82 | JUC03007573.hg.1 | MME |
| TC03000846.hg.1 | -12.1 | PSR03014947.hg.1 | MME |
| TC03000846.hg.1 | -16.57 | JUC03007579.hg.1 | MME |
| TC03002033.hg.1 | 2.49 | PSR03036025.hg.1 | |
| TC03002033.hg.1 | -2.03 | PSR03036016.hg.1 | |
| TC03002033.hg.1 | -2.32 | JUC03017819.hg.1 | |
| TC03002033.hg.1 | -2.93 | JUC03017815.hg.1 | |
| TC04001641.hg.1 | 2.49 | JUC04012129.hg.1 | PET112 |
| TC04001641.hg.1 | 2.4 | JUC04012116.hg.1 | PET112 |
| TC04001641.hg.1 | -3.28 | PSR04022925.hg.1 | PET112 |
| TC05000580.hg.1 | 2.49 | JUC05004440.hg.1 | PRDM6 |
| TC05000580.hg.1 | 2.24 | PSR05008180.hg.1 | PRDM6 |
| TC05001657.hg.1 | 2.49 | PSR05022451.hg.1 | EFNA5 |
| TC05001657.hg.1 | -3.3 | PSR05022454.hg.1 | EFNA5 |
| TC05001657.hg.1 | -3.59 | PSR05022458.hg.1 | EFNA5 |
| TC05001657.hg.1 | -9.24 | JUC05011603.hg.1 | EFNA5 |
| TC06001678.hg.1 | 2.49 | JUC06009497.hg.1 | CPNE5 |
| TC06001678.hg.1 | 2.05 | PSR06019977.hg.1 | CPNE5 |
| TC06001678.hg.1 | -2.28 | JUC06009489.hg.1 | CPNE5 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06002210.hg.1 | 2.49 | PSR06027683.hg.1 | PPIL4 |
| TC06002210.hg.1 | -3.97 | JUC06013801.hg.1 | PPIL4 |
| TC06004134.hg.1 | 2.49 | JUC06021832.hg.1 | C6orf130 |
| TC06004134.hg.1 | -2.14 | PSR06020393.hg.1 | C6orf130 |
| TC06004134.hg.1 | -2.27 | PSR06020379.hg.1 | C6orf130 |
| TC06004134.hg.1 | -2.45 | PSR06020378.hg.1 | C6orf130 |
| TC06004134.hg.1 | -2.77 | JUC06021835.hg.1 | C6orf130 |
| TC06004134.hg.1 | -2.98 | PSR06020391.hg.1 | C6orf130 |
| TC07001012.hg.1 | 2.49 | JUC07007551.hg.1 | SLC4A2 |
| TC07001012.hg.1 | 2.28 | JUC07007555.hg.1 | SLC4A2 |
| TC07001012.hg.1 | -2.33 | PSR07015567.hg.1 | SLC4A2 |
| TC10000653.hg.1 | 2.49 | JUC10004095.hg.1 | HECTD2 |
| TC10000653.hg.1 | -2.02 | JUC10004083.hg.1 | HECTD2 |
| TC10000653.hg.1 | -2.09 | PSR10007237.hg.1 | HECTD2 |
| TC10000653.hg.1 | -2.26 | PSR10007213.hg.1 | HECTD2 |
| TC10000653.hg.1 | -2.29 | PSR10007231.hg.1 | HECTD2 |
| TC10000653.hg.1 | -2.35 | PSR10007235.hg.1 | HECTD2 |
| TC10000653.hg.1 | -2.38 | PSR10007247.hg.1 | HECTD2 |
| TC11001914.hg.1 | 2.49 | JUC11012053.hg.1 | CDC42BPG |
| TC11001914.hg.1 | 2.22 | PSR11022832.hg.1 | CDC42BPG |
| TC11001914.hg.1 | -2.02 | JUC11012028.hg.1 | CDC42BPG |
| TC20000797.hg.1 | 2.49 | JUC20005616.hg.1 | GDF5 |
| TC20000797.hg.1 | -2.23 | PSR20010758.hg.1 | GDF5 |
| TC02001071.hg.1 | 2.48 | JUC02008455.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | 2.23 | JUC02008474.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | 2.22 | JUC02008441.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | -2.09 | PSR02015893.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | -2.17 | PSR02015894.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | -2.28 | PSR02015903.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | -2.4 | PSR02015933.hg.1 | OSBPL6, MIF |
| TC02001071.hg.1 | -2.61 | PSR02015890.hg.1 | OSBPL6, MIF |
| TC04001199.hg.1 | 2.48 | PSR04016432.hg.1 | LNX1 |
| TC04001199.hg.1 | 2.3 | JUC04008753.hg.1 | LNX1 |
| TC04001199.hg.1 | 2.03 | JUC04008749.hg.1 | LNX1 |
| TC04001199.hg.1 | -2 | PSR04016460.hg.1 | LNX1 |
| TC04001199.hg.1 | -2.3 | JUC04008761.hg.1 | LNX1 |
| TC05001725.hg.1 | 2.48 | PSR05023246.hg.1 | CEP120 |
| TC05001725.hg.1 | 2.4 | JUC05012018.hg.1 | CEP120 |
| TC05001725.hg.1 | 2.14 | PSR05023250.hg.1 | CEP120 |
| TC05001725.hg.1 | 2.09 | JUC05012041.hg.1 | CEP120 |
| TC05001725.hg.1 | 2.07 | JUC05012027.hg.1 | CEP120 |
| TC05001725.hg.1 | 2.02 | JUC05012023.hg.1 | CEP120 |
| TC05001725.hg.1 | -2.05 | JUC05012040.hg.1 | CEP120 |
| TC06004132.hg.1 | 2.48 | JUC06021814.hg.1 | MOCS1 |
| TC06004132.hg.1 | 2.38 | PSR06020333.hg.1 | MOCS1 |
| TC06004132.hg.1 | 2.29 | PSR06020329.hg.1 | MOCS1 |
| TC07001116.hg.1 | 2.48 | JUC07008355.hg.1 | TNRC18 |
| TC07001116.hg.1 | 2.28 | JUC07008350.hg.1 | TNRC18 |
| TC07001116.hg.1 | 2.19 | PSR07017189.hg.1 | TNRC18 |
| TC07001116.hg.1 | 2.03 | PSR07017153.hg.1 | TNRC18 |
| TC07001687.hg.1 | 2.48 | JUC07012820.hg.1 | PLOD3 |
| TC07001687.hg.1 | -2.03 | PSR07026096.hg.1 | PLOD3 |
| TC08000176.hg.1 | 2.48 | JUC08001173.hg.1 | LOC1005071 |
| TC08000176.hg.1 | 2.04 | PSR08002281.hg.1 | LOC1005071 |
| TC09001412.hg.1 | 2.48 | JUC09009465.hg.1 | |
| TC09001412.hg.1 | -2.05 | PSR09017617.hg.1 | |
| TC09001412.hg.1 | -2.09 | JUC09009470.hg.1 | |
| TC10000922.hg.1 | 2.48 | JUC10006641.hg.1 | PTPRE |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10000922.hg.1 | 2.11 | PSR10011342.hg.1 | PTPRE |
| TC10000922.hg.1 | 2.05 | PSR10011359.hg.1 | PTPRE |
| TC10000922.hg.1 | 2.01 | JUC10006620.hg.1 | PTPRE |
| TC10000922.hg.1 | 2.01 | JUC10006625.hg.1 | PTPRE |
| TC10000922.hg.1 | -2.24 | JUC10006621.hg.1 | PTPRE |
| TC10000922.hg.1 | -2.44 | JUC10006647.hg.1 | PTPRE |
| TC10000922.hg.1 | -2.59 | JUC10006640.hg.1 | PTPRE |
| TC11001416.hg.1 | 2.48 | JUC11009515.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.02 | PSR11017819.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.02 | JUC11009519.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.07 | JUC11009520.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.26 | JUC11009529.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.42 | PSR11017818.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.62 | PSR11017809.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.67 | PSR11017811.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.69 | PSR11017816.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.79 | PSR11017821.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.92 | JUC11009514.hg.1 | MRV11 |
| TC11001416.hg.1 | -2.94 | PSR11017817.hg.1 | MRV11 |
| TC11001416.hg.1 | -3.16 | JUC11009540.hg.1 | MRV11 |
| TC11001416.hg.1 | -3.18 | JUC11009545.hg.1 | MRV11 |
| TC11001416.hg.1 | -3.3 | JUC11009513.hg.1 | MRV11 |
| TC11001416.hg.1 | -3.65 | JUC11009511.hg.1 | MRV11 |
| TC11001416.hg.1 | -4.1 | JUC11009539.hg.1 | MRV11 |
| TC12000419.hg.1 | 2.48 | JUC12002964.hg.1 | KRT86 |
| TC12000419.hg.1 | -2.19 | PSR12005372.hg.1 | KRT86 |
| TC12000419.hg.1 | -3.84 | JUC12002968.hg.1 | KRT86 |
| TC12001413.hg.1 | 2.48 | JUC12010219.hg.1 | TWF1 |
| TC12001413.hg.1 | -2.14 | PSR12018308.hg.1 | TWF1 |
| TC13000209.hg.1 | 2.48 | JUC13001603.hg.1 | RNASEH2B |
| TC13000209.hg.1 | -2.17 | PSR13002534.hg.1 | RNASEH2B |
| TC13000209.hg.1 | -2.26 | PSR13002526.hg.1 | RNASEH2B |
| TC13000209.hg.1 | -2.26 | JUC13001591.hg.1 | RNASEH2B |
| TC13000510.hg.1 | 2.48 | JUC13003436.hg.1 | MTIF3 |
| TC13000510.hg.1 | 2.39 | PSR13005732.hg.1 | MTIF3 |
| TC13000510.hg.1 | -2.07 | PSR13005743.hg.1 | MTIF3 |
| TC13000510.hg.1 | -2.22 | PSR13005746.hg.1 | MTIF3 |
| TC13000510.hg.1 | -3.37 | JUC13003442.hg.1 | MTIF3 |
| TC16000295.hg.1 | 2.48 | JUC16002276.hg.1 | KIAA0556 |
| TC16000295.hg.1 | -2.69 | PSR16004128.hg.1 | KIAA0556 |
| TC17000884.hg.1 | 2.48 | PSR17011456.hg.1 | SCARNA16, S |
| TC17000884.hg.1 | 2.04 | PSR17011496.hg.1 | SCARNA16, S |
| TC17000884.hg.1 | -2.07 | JUC17006406.hg.1 | SCARNA16, S |
| TC17000884.hg.1 | -2.2 | JUC17006423.hg.1 | SCARNA16, S |
| TC17001300.hg.1 | 2.48 | PSR17017253.hg.1 | PIGS |
| TC17001300.hg.1 | 2.22 | JUC17009754.hg.1 | PIGS |
| TC17001300.hg.1 | 2.21 | PSR17017275.hg.1 | PIGS |
| TC17001300.hg.1 | 2.02 | PSR17017249.hg.1 | PIGS |
| TC17001300.hg.1 | 2 | PSR17017262.hg.1 | PIGS |
| TC01003876.hg.1 | 2.47 | PSR01059069.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.25 | JUC01030941.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.23 | JUC01030935.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.21 | PSR01059071.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.17 | PSR01059040.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.14 | PSR01059063.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.12 | PSR01059033.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.11 | JUC01030945.hg.1 | PARP1 |
| TC01003876.hg.1 | 2.09 | PSR01059061.hg.1 | PARP1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC01003876.hg.1 | 2.07 | PSR01059070.hg.1 | PARP1 |
| TC02000059.hg.1 | 2.47 | JUC02000423.hg.1 | HPCAL1 |
| TC02000059.hg.1 | 2.29 | JUC02000430.hg.1 | HPCAL1 |
| TC02000059.hg.1 | 2.21 | PSR02000772.hg.1 | HPCAL1 |
| TC02001485.hg.1 | 2.47 | JUC02012577.hg.1 | ING5 |
| TC02001485.hg.1 | 2.09 | PSR02024233.hg.1 | ING5 |
| TC03000221.hg.1 | 2.47 | JUC03002356.hg.1 | NKTR |
| TC03000221.hg.1 | 2.32 | JUC03002348.hg.1 | NKTR |
| TC03000221.hg.1 | 2.14 | JUC03002365.hg.1 | NKTR |
| TC03000221.hg.1 | 2.05 | PSR03004450.hg.1 | NKTR |
| TC03000221.hg.1 | -2.04 | JUC03002341.hg.1 | NKTR |
| TC03001549.hg.1 | 2.47 | PSR03028268.hg.1 | EIF4E3 |
| TC03001549.hg.1 | 2.27 | PSR03028263.hg.1 | EIF4E3 |
| TC03001549.hg.1 | 2.18 | PSR03028265.hg.1 | EIF4E3 |
| TC03001549.hg.1 | 2.17 | JUC03013909.hg.1 | EIF4E3 |
| TC03001979.hg.1 | 2.47 | JUC03017481.hg.1 | MECOM |
| TC03001979.hg.1 | 2.15 | JUC03017488.hg.1 | MECOM |
| TC03001979.hg.1 | 2.13 | PSR03035447.hg.1 | MECOM |
| TC03001979.hg.1 | 2.07 | PSR03035445.hg.1 | MECOM |
| TC03001979.hg.1 | -2.04 | PSR03035462.hg.1 | MECOM |
| TC03001979.hg.1 | -2.06 | PSR03035463.hg.1 | MECOM |
| TC03001979.hg.1 | -2.18 | PSR03035430.hg.1 | MECOM |
| TC03001979.hg.1 | -2.38 | JUC03017495.hg.1 | MECOM |
| TC03001979.hg.1 | -2.41 | PSR03035474.hg.1 | MECOM |
| TC03001979.hg.1 | -2.62 | JUC03017505.hg.1 | MECOM |
| TC03001979.hg.1 | -2.67 | PSR03035478.hg.1 | MECOM |
| TC03001979.hg.1 | -2.69 | PSR03035461.hg.1 | MECOM |
| TC03001979.hg.1 | -2.71 | PSR03035482.hg.1 | MECOM |
| TC03001979.hg.1 | -2.72 | JUC03017506.hg.1 | MECOM |
| TC03001979.hg.1 | -2.81 | PSR03035475.hg.1 | MECOM |
| TC03001979.hg.1 | -2.85 | PSR03035477.hg.1 | MECOM |
| TC03001979.hg.1 | -3.65 | JUC03017487.hg.1 | MECOM |
| TC03001979.hg.1 | -5.08 | JUC03017490.hg.1 | MECOM |
| TC05000305.hg.1 | 2.47 | PSR05004155.hg.1 | GTF2H2D, G |
| TC05000305.hg.1 | 2.13 | JUC05002203.hg.1 | GTF2H2D, G |
| TC05000305.hg.1 | -2.02 | PSR05004153.hg.1 | GTF2H2D, G |
| TC05000305.hg.1 | -2.74 | PSR05004120.hg.1 | GTF2H2D, G |
| TC05000305.hg.1 | -3.38 | JUC05002195.hg.1 | GTF2H2D, G |
| TC05001310.hg.1 | 2.47 | PSR05018528.hg.1 | SEPP1 |
| TC05001310.hg.1 | 2.37 | JUC05009531.hg.1 | SEPP1 |
| TC05001310.hg.1 | 2.24 | PSR05018525.hg.1 | SEPP1 |
| TC05001310.hg.1 | 2.15 | JUC05009523.hg.1 | SEPP1 |
| TC05001310.hg.1 | -2.04 | PSR05018516.hg.1 | SEPP1 |
| TC05001310.hg.1 | -2.07 | PSR05018509.hg.1 | SEPP1 |
| TC05001310.hg.1 | -2.16 | PSR05018512.hg.1 | SEPP1 |
| TC05001310.hg.1 | -2.21 | JUC05009529.hg.1 | SEPP1 |
| TC06001235.hg.1 | 2.47 | JUC06007317.hg.1 | ECI2 |
| TC06001235.hg.1 | 2.04 | PSR06014704.hg.1 | ECI2 |
| TC07000019.hg.1 | 2.47 | PSR07000280.hg.1 | |
| TC07000019.hg.1 | -2.21 | JUC07000080.hg.1 | |
| TC07000019.hg.1 | -2.53 | JUC07000076.hg.1 | |
| TC09001463.hg.1 | 2.47 | PSR09018095.hg.1 | FRRS1L |
| TC09001463.hg.1 | -2.98 | JUC09009760.hg.1 | FRRS1L |
| TC09001501.hg.1 | 2.47 | PSR09018737.hg.1 | HDHD3 |
| TC09001501.hg.1 | 2.13 | JUC09010136.hg.1 | HDHD3 |
| TC14001123.hg.1 | 2.47 | JUC14006422.hg.1 | NIN |
| TC14001123.hg.1 | 2.45 | PSR14012760.hg.1 | NIN |
| TC14001123.hg.1 | 2.24 | JUC14006450.hg.1 | NIN |

| | | | |
|------------------|-------|-------------------|-------------|
| TC15001713.hg.1 | 2.47 | PSR15016752.hg.1 | CTSH |
| TC15001713.hg.1 | 2.14 | JUC15009131.hg.1 | CTSH |
| TC15001713.hg.1 | 2.05 | JUC15009128.hg.1 | CTSH |
| TC15001713.hg.1 | -2.44 | JUC15009140.hg.1 | CTSH |
| TC15001713.hg.1 | -2.85 | JUC15009130.hg.1 | CTSH |
| TC15001713.hg.1 | -3.42 | PSR15016755.hg.1 | CTSH |
| TC17_ctg5_hap100 | 2.47 | PSR17_ctg5_hap100 | ARL17B, ARL |
| TC17_ctg5_hap100 | 2.36 | JUC17_ctg5_hap100 | ARL17B, ARL |
| TC17_ctg5_hap100 | 2.28 | JUC17_ctg5_hap100 | ARL17B, ARL |
| TC17_ctg5_hap100 | -2.18 | PSR17_ctg5_hap100 | ARL17B, ARL |
| TC20000826.hg.1 | 2.47 | JUC20005902.hg.1 | BLCAP |
| TC20000826.hg.1 | 2.38 | JUC20005905.hg.1 | BLCAP |
| TC20000826.hg.1 | 2.33 | PSR20011406.hg.1 | BLCAP |
| TC6_dbb_hap3000 | 2.47 | PSR6_dbb_hap3001 | SAPCD1, MS |
| TC6_dbb_hap3000 | 2.41 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | 2.37 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | 2.16 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | 2.03 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | -2.01 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | -2.09 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | -2.41 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_dbb_hap3000 | -2.94 | JUC6_dbb_hap3000 | SAPCD1, MS |
| TC6_mann_hap400 | 2.47 | PSR6_mann_hap400 | PRRC2A |
| TC6_mann_hap400 | 2.36 | PSR6_mann_hap400 | PRRC2A |
| TC6_mann_hap400 | 2.26 | JUC6_mann_hap400 | PRRC2A |
| TC6_mann_hap400 | 2.04 | PSR6_mann_hap400 | PRRC2A |
| TC6_mcf_hap5000 | 2.47 | PSR6_mcf_hap5001 | SAPCD1, MS |
| TC6_mcf_hap5000 | 2.41 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | 2.37 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | 2.16 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | 2.03 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | -2.01 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | -2.09 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | -2.41 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_mcf_hap5000 | -2.94 | JUC6_mcf_hap5000 | SAPCD1, MS |
| TC6_ssto_hap7000 | 2.47 | JUC6_ssto_hap7000 | SYNGAP1 |
| TC6_ssto_hap7000 | 2.43 | PSR6_ssto_hap7001 | SYNGAP1 |
| TC6_ssto_hap7000 | 2.25 | JUC6_ssto_hap7000 | SYNGAP1 |
| TC02001177.hg.1 | 2.46 | JUC02009566.hg.1 | CASP8 |
| TC02001177.hg.1 | 2.32 | PSR02017903.hg.1 | CASP8 |
| TC02001177.hg.1 | -2.15 | PSR02017926.hg.1 | CASP8 |
| TC02004926.hg.1 | 2.46 | JUC02031304.hg.1 | SLC4A5 |
| TC02004926.hg.1 | 2.21 | PSR02031762.hg.1 | SLC4A5 |
| TC11000747.hg.1 | 2.46 | PSR11009722.hg.1 | IL18BP |
| TC11000747.hg.1 | 2.31 | PSR11009721.hg.1 | IL18BP |
| TC11000747.hg.1 | -4.4 | JUC11005029.hg.1 | IL18BP |
| TC11000797.hg.1 | 2.46 | JUC11005334.hg.1 | NEU3 |
| TC11000797.hg.1 | 2.43 | PSR11010238.hg.1 | NEU3 |
| TC11000797.hg.1 | 2.33 | PSR11010230.hg.1 | NEU3 |
| TC11000797.hg.1 | 2.12 | JUC11005332.hg.1 | NEU3 |
| TC12001548.hg.1 | 2.46 | JUC12011374.hg.1 | SP7 |
| TC12001548.hg.1 | -2.35 | PSR12020458.hg.1 | SP7 |
| TC12001548.hg.1 | -2.49 | PSR12020464.hg.1 | SP7 |
| TC12001548.hg.1 | -2.85 | PSR12020460.hg.1 | SP7 |
| TC12001548.hg.1 | -3.31 | JUC12011372.hg.1 | SP7 |
| TC12003287.hg.1 | 2.46 | PSR12027240.hg.1 | VPS33A |
| TC12003287.hg.1 | 2.27 | PSR12027246.hg.1 | VPS33A |
| TC12003287.hg.1 | -2.29 | JUC12020562.hg.1 | VPS33A |

| | | | |
|-----------------|-------|------------------|------------|
| TC12003287.hg.1 | -2.36 | JUC12020552.hg.1 | VPS33A |
| TC12003287.hg.1 | -2.74 | JUC12020555.hg.1 | VPS33A |
| TC13000068.hg.1 | 2.46 | PSR13000694.hg.1 | CDK8 |
| TC13000068.hg.1 | -2.02 | JUC13000425.hg.1 | CDK8 |
| TC14000164.hg.1 | 2.46 | JUC14000757.hg.1 | TSSK4 |
| TC14000164.hg.1 | 2.15 | PSR14001756.hg.1 | TSSK4 |
| TC14000164.hg.1 | 2.04 | PSR14001753.hg.1 | TSSK4 |
| TC15000810.hg.1 | 2.46 | JUC15003856.hg.1 | |
| TC15000810.hg.1 | -2.79 | PSR15007395.hg.1 | |
| TC19001281.hg.1 | 2.46 | PSR19018200.hg.1 | IL12RB1 |
| TC19001281.hg.1 | -3.02 | JUC19010618.hg.1 | IL12RB1 |
| TC02002300.hg.1 | 2.46 | JUC02019135.hg.1 | LOC1001313 |
| TC02002300.hg.1 | 2 | PSR02036903.hg.1 | LOC1001313 |
| TC03000127.hg.1 | 2.45 | JUC03001315.hg.1 | NR1D2 |
| TC03000127.hg.1 | 2.24 | JUC03001321.hg.1 | NR1D2 |
| TC03000127.hg.1 | 2.09 | PSR03002454.hg.1 | NR1D2 |
| TC03000986.hg.1 | 2.45 | PSR03016951.hg.1 | YEATS2 |
| TC03000986.hg.1 | 2.34 | PSR03016981.hg.1 | YEATS2 |
| TC03000986.hg.1 | 2.27 | JUC03008631.hg.1 | YEATS2 |
| TC03000986.hg.1 | 2.07 | JUC03008639.hg.1 | YEATS2 |
| TC03000986.hg.1 | -2.12 | JUC03008657.hg.1 | YEATS2 |
| TC05001519.hg.1 | 2.45 | PSR05020816.hg.1 | ARSB |
| TC05001519.hg.1 | 2.32 | JUC05010726.hg.1 | ARSB |
| TC05001519.hg.1 | 2.06 | PSR05020813.hg.1 | ARSB |
| TC05001519.hg.1 | -2.37 | JUC05010723.hg.1 | ARSB |
| TC05001519.hg.1 | -5.11 | PSR05020812.hg.1 | ARSB |
| TC05001519.hg.1 | -7.36 | PSR05020811.hg.1 | ARSB |
| TC06000761.hg.1 | 2.45 | JUC06004222.hg.1 | TTK |
| TC06000761.hg.1 | -2.74 | JUC06004217.hg.1 | TTK |
| TC06000761.hg.1 | -4.09 | PSR06009100.hg.1 | TTK |
| TC07001033.hg.1 | 2.45 | JUC07007763.hg.1 | LOC1001327 |
| TC07001033.hg.1 | 2.2 | PSR07016025.hg.1 | LOC1001327 |
| TC07001033.hg.1 | 2.05 | PSR07016023.hg.1 | LOC1001327 |
| TC08000638.hg.1 | 2.45 | PSR08008663.hg.1 | |
| TC08000638.hg.1 | 2.28 | JUC08004407.hg.1 | |
| TC08000638.hg.1 | 2.06 | JUC08004398.hg.1 | |
| TC08000638.hg.1 | 2.05 | PSR08008679.hg.1 | |
| TC08000638.hg.1 | -2.03 | PSR08008688.hg.1 | |
| TC08000638.hg.1 | -2.29 | PSR08008695.hg.1 | |
| TC08000638.hg.1 | -4.23 | PSR08008674.hg.1 | |
| TC09001059.hg.1 | 2.45 | PSR09014073.hg.1 | TLN1 |
| TC09001059.hg.1 | 2.41 | PSR09014082.hg.1 | TLN1 |
| TC09001059.hg.1 | 2.37 | JUC09007579.hg.1 | TLN1 |
| TC0X000748.hg.1 | 2.45 | PSR0X009724.hg.1 | ZFP92 |
| TC0X000748.hg.1 | -2.13 | JUC0X004913.hg.1 | ZFP92 |
| TC0X000748.hg.1 | -2.25 | JUC0X004915.hg.1 | ZFP92 |
| TC0X000748.hg.1 | -2.78 | PSR0X009726.hg.1 | ZFP92 |
| TC10000661.hg.1 | 2.45 | PSR10007420.hg.1 | EXOC6 |
| TC10000661.hg.1 | 2.39 | JUC10004233.hg.1 | EXOC6 |
| TC10000661.hg.1 | 2.19 | PSR10007449.hg.1 | EXOC6 |
| TC10000661.hg.1 | -3.77 | JUC10004216.hg.1 | EXOC6 |
| TC11002048.hg.1 | 2.45 | JUC11012898.hg.1 | LOC1001333 |
| TC11002048.hg.1 | -2.3 | PSR11024424.hg.1 | LOC1001333 |
| TC13000383.hg.1 | 2.45 | JUC13002486.hg.1 | TNFSF13B |
| TC13000383.hg.1 | -2.04 | PSR13004120.hg.1 | TNFSF13B |
| TC13000383.hg.1 | -3.07 | JUC13002479.hg.1 | TNFSF13B |
| TC13001725.hg.1 | 2.45 | JUC13008493.hg.1 | CCDC169 |
| TC13001725.hg.1 | -2.03 | JUC13008490.hg.1 | CCDC169 |

| | | | |
|-----------------|-------|------------------|----------|
| TC13001725.hg.1 | -2.05 | PSR13006377.hg.1 | CCDC169 |
| TC13001725.hg.1 | -2.2 | PSR13006372.hg.1 | CCDC169 |
| TC13001725.hg.1 | -2.49 | JUC13008485.hg.1 | CCDC169 |
| TC13001725.hg.1 | -2.78 | JUC13008484.hg.1 | CCDC169 |
| TC15000796.hg.1 | 2.45 | JUC15003767.hg.1 | TM6SF1 |
| TC15000796.hg.1 | -2.09 | PSR15007249.hg.1 | TM6SF1 |
| TC15000796.hg.1 | -3.5 | PSR15007247.hg.1 | TM6SF1 |
| TC17000549.hg.1 | 2.45 | PSR17006720.hg.1 | TMEM106A |
| TC17000549.hg.1 | 2.36 | JUC17003784.hg.1 | TMEM106A |
| TC17000549.hg.1 | -2.13 | JUC17003801.hg.1 | TMEM106A |
| TC17000549.hg.1 | -2.35 | JUC17003795.hg.1 | TMEM106A |
| TC17000549.hg.1 | -3.37 | JUC17003793.hg.1 | TMEM106A |
| TC17000549.hg.1 | -4.25 | JUC17003794.hg.1 | TMEM106A |
| TC17000549.hg.1 | -7 | JUC17003785.hg.1 | TMEM106A |
| TC19000062.hg.1 | 2.45 | PSR19000955.hg.1 | TLE6 |
| TC19000062.hg.1 | 2.37 | PSR19000989.hg.1 | TLE6 |
| TC19000062.hg.1 | 2.23 | JUC19000532.hg.1 | TLE6 |
| TC20000231.hg.1 | 2.45 | JUC20001642.hg.1 | CBFA2T2 |
| TC20000231.hg.1 | -2.56 | PSR20002905.hg.1 | CBFA2T2 |
| TC6_mann_hap400 | 2.45 | PSR6_mann_hap400 | ABCF1 |
| TC6_mann_hap400 | 2.45 | JUC6_mann_hap400 | ABCF1 |
| TC6_mann_hap400 | 2.07 | PSR6_mann_hap400 | ABCF1 |
| TC6_mcf_hap5000 | 2.45 | PSR6_mcf_hap5000 | ABCF1 |
| TC6_mcf_hap5000 | 2.45 | JUC6_mcf_hap5000 | ABCF1 |
| TC6_mcf_hap5000 | 2.07 | PSR6_mcf_hap5000 | ABCF1 |
| TC02000748.hg.1 | 2.44 | PSR02011610.hg.1 | INSIG2 |
| TC02000748.hg.1 | 2.23 | PSR02011609.hg.1 | INSIG2 |
| TC02000748.hg.1 | 2.23 | JUC02006145.hg.1 | INSIG2 |
| TC02000748.hg.1 | 2.16 | JUC02006137.hg.1 | INSIG2 |
| TC02000748.hg.1 | 2.11 | JUC02006139.hg.1 | INSIG2 |
| TC03000770.hg.1 | 2.44 | JUC03007115.hg.1 | TRPC1 |
| TC03000770.hg.1 | 2.23 | PSR03014089.hg.1 | TRPC1 |
| TC05000635.hg.1 | 2.44 | JUC05004767.hg.1 | SLC22A5 |
| TC05000635.hg.1 | 2.13 | PSR05008766.hg.1 | SLC22A5 |
| TC05000635.hg.1 | 2.05 | JUC05004755.hg.1 | SLC22A5 |
| TC05000635.hg.1 | -2.09 | JUC05004756.hg.1 | SLC22A5 |
| TC05000635.hg.1 | -2.12 | PSR05008791.hg.1 | SLC22A5 |
| TC05000635.hg.1 | -2.21 | JUC05004753.hg.1 | SLC22A5 |
| TC05001032.hg.1 | 2.44 | JUC05007811.hg.1 | RMND5B |
| TC05001032.hg.1 | 2.42 | PSR05015049.hg.1 | RMND5B |
| TC06004112.hg.1 | 2.44 | JUC06021535.hg.1 | GABBR1 |
| TC06004112.hg.1 | 2.09 | PSR06016676.hg.1 | GABBR1 |
| TC06004112.hg.1 | -2.36 | JUC06021544.hg.1 | GABBR1 |
| TC07001016.hg.1 | 2.44 | JUC07007630.hg.1 | NUB1 |
| TC07001016.hg.1 | -2.87 | PSR07015759.hg.1 | NUB1 |
| TC11000054.hg.1 | 2.44 | JUC11000524.hg.1 | TNNT3 |
| TC11000054.hg.1 | 2.03 | PSR11001080.hg.1 | TNNT3 |
| TC11000054.hg.1 | -2.42 | JUC11000509.hg.1 | TNNT3 |
| TC11000054.hg.1 | -2.42 | JUC11000530.hg.1 | TNNT3 |
| TC11000054.hg.1 | -4.61 | JUC11000543.hg.1 | TNNT3 |
| TC11000577.hg.1 | 2.44 | JUC11003634.hg.1 | MARK2 |
| TC11000577.hg.1 | 2.25 | JUC11003629.hg.1 | MARK2 |
| TC11000577.hg.1 | -2.15 | PSR11007002.hg.1 | MARK2 |
| TC11000577.hg.1 | -2.61 | JUC11003644.hg.1 | MARK2 |
| TC12001083.hg.1 | 2.44 | JUC12007875.hg.1 | NINJ2 |
| TC12001083.hg.1 | 2.22 | PSR12014332.hg.1 | NINJ2 |
| TC12001083.hg.1 | -2.36 | PSR12014336.hg.1 | NINJ2 |
| TC12001083.hg.1 | -2.77 | JUC12007877.hg.1 | NINJ2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12001083.hg.1 | -2.79 | PSR12014337.hg.1 | NINJ2 |
| TC12001083.hg.1 | -3.34 | PSR12014341.hg.1 | NINJ2 |
| TC12001083.hg.1 | -4.61 | PSR12014334.hg.1 | NINJ2 |
| TC12001083.hg.1 | -4.66 | PSR12014333.hg.1 | NINJ2 |
| TC12001083.hg.1 | -5.44 | PSR12014327.hg.1 | NINJ2 |
| TC12001148.hg.1 | 2.44 | JUC12008387.hg.1 | C12orf53 |
| TC12001148.hg.1 | -2.03 | PSR12015214.hg.1 | C12orf53 |
| TC12001148.hg.1 | -2.59 | PSR12015212.hg.1 | C12orf53 |
| TC12001148.hg.1 | -2.65 | PSR12015211.hg.1 | C12orf53 |
| TC12001148.hg.1 | -4.25 | JUC12008391.hg.1 | C12orf53 |
| TC12001148.hg.1 | -6.77 | JUC12008385.hg.1 | C12orf53 |
| TC13000419.hg.1 | 2.44 | PSR13004702.hg.1 | CUL4A |
| TC13000419.hg.1 | 2.11 | JUC13002850.hg.1 | CUL4A |
| TC13000419.hg.1 | -2.77 | JUC13002836.hg.1 | CUL4A |
| TC14000356.hg.1 | 2.44 | PSR14003881.hg.1 | DAAM1 |
| TC14000356.hg.1 | -2.04 | JUC14001933.hg.1 | DAAM1 |
| TC14000356.hg.1 | -2.13 | JUC14001930.hg.1 | DAAM1 |
| TC15002754.hg.1 | 2.44 | JUC15013110.hg.1 | ULK4P1, ULK |
| TC15002754.hg.1 | -2.2 | JUC15013106.hg.1 | ULK4P1, ULK |
| TC15002754.hg.1 | -2.24 | PSR15001112.hg.1 | ULK4P1, ULK |
| TC15002754.hg.1 | -2.37 | PSR15001111.hg.1 | ULK4P1, ULK |
| TC15002801.hg.1 | 2.44 | PSR15005984.hg.1 | CLK3 |
| TC15002801.hg.1 | 2.17 | PSR15005991.hg.1 | CLK3 |
| TC15002801.hg.1 | 2.13 | PSR15005985.hg.1 | CLK3 |
| TC15002801.hg.1 | 2 | PSR15005979.hg.1 | CLK3 |
| TC15002801.hg.1 | -2.97 | JUC15014070.hg.1 | CLK3 |
| TC19002708.hg.1 | 2.44 | JUC19018095.hg.1 | PSG1 |
| TC19002708.hg.1 | -2.87 | PSR19021578.hg.1 | PSG1 |
| TC19002708.hg.1 | -4.48 | JUC19018094.hg.1 | PSG1 |
| TC19002708.hg.1 | -5.76 | JUC19018091.hg.1 | PSG1 |
| TC19002708.hg.1 | -9.54 | JUC19018089.hg.1 | PSG1 |
| TC20000088.hg.1 | 2.44 | PSR20001212.hg.1 | BTBD3 |
| TC20000088.hg.1 | -3.21 | JUC20000633.hg.1 | BTBD3 |
| TC01000727.hg.1 | 2.43 | PSR01011556.hg.1 | RAVER2 |
| TC01000727.hg.1 | -2.61 | JUC01006000.hg.1 | RAVER2 |
| TC01003505.hg.1 | 2.43 | JUC01028451.hg.1 | KIFAP3 |
| TC01003505.hg.1 | 2.12 | PSR01054541.hg.1 | KIFAP3 |
| TC02002750.hg.1 | 2.43 | JUC02023214.hg.1 | LINC00607 |
| TC02002750.hg.1 | -2.12 | PSR02044212.hg.1 | LINC00607 |
| TC02002750.hg.1 | -2.5 | PSR02044214.hg.1 | LINC00607 |
| TC02002750.hg.1 | -2.53 | PSR02044216.hg.1 | LINC00607 |
| TC02002750.hg.1 | -2.94 | PSR02044223.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.13 | JUC02023215.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.26 | PSR02044217.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.48 | JUC02023217.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.53 | JUC02023224.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.68 | PSR02044222.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.91 | PSR02044213.hg.1 | LINC00607 |
| TC02002750.hg.1 | -3.96 | PSR02044230.hg.1 | LINC00607 |
| TC02002750.hg.1 | -4.1 | PSR02044215.hg.1 | LINC00607 |
| TC02002750.hg.1 | -4.35 | JUC02023213.hg.1 | LINC00607 |
| TC02002750.hg.1 | -4.44 | PSR02044235.hg.1 | LINC00607 |
| TC02002750.hg.1 | -4.47 | PSR02044231.hg.1 | LINC00607 |
| TC02002750.hg.1 | -5.15 | PSR02044233.hg.1 | LINC00607 |
| TC02002750.hg.1 | -5.41 | PSR02044224.hg.1 | LINC00607 |
| TC02002750.hg.1 | -6.34 | JUC02023220.hg.1 | LINC00607 |
| TC02002750.hg.1 | -7.14 | JUC02023218.hg.1 | LINC00607 |
| TC02002750.hg.1 | -7.21 | PSR02044229.hg.1 | LINC00607 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC02002750.hg.1 | -7.58 | JUC02023219.hg.1 | LINC00607 |
| TC02002750.hg.1 | -7.78 | PSR02044219.hg.1 | LINC00607 |
| TC02002750.hg.1 | -8.19 | JUC02023211.hg.1 | LINC00607 |
| TC03000064.hg.1 | 2.43 | JUC03000734.hg.1 | HRH1 |
| TC03000064.hg.1 | -2.07 | PSR03001400.hg.1 | HRH1 |
| TC03000064.hg.1 | -2.18 | JUC03000729.hg.1 | HRH1 |
| TC03000131.hg.1 | 2.43 | JUC03001345.hg.1 | RARB |
| TC03000131.hg.1 | 2.3 | PSR03002507.hg.1 | RARB |
| TC03000131.hg.1 | 2.27 | JUC03001338.hg.1 | RARB |
| TC03000131.hg.1 | -2 | PSR03002513.hg.1 | RARB |
| TC03000131.hg.1 | -2.11 | PSR03002492.hg.1 | RARB |
| TC03000131.hg.1 | -2.28 | PSR03002518.hg.1 | RARB |
| TC03000131.hg.1 | -2.43 | PSR03002487.hg.1 | RARB |
| TC03000131.hg.1 | -2.55 | JUC03001339.hg.1 | RARB |
| TC03000131.hg.1 | -2.63 | PSR03002491.hg.1 | RARB |
| TC03000131.hg.1 | -2.67 | JUC03001330.hg.1 | RARB |
| TC03000131.hg.1 | -3.1 | JUC03001329.hg.1 | RARB |
| TC03000131.hg.1 | -3.2 | JUC03001340.hg.1 | RARB |
| TC03000131.hg.1 | -3.55 | PSR03002490.hg.1 | RARB |
| TC03000131.hg.1 | -3.78 | PSR03002488.hg.1 | RARB |
| TC03000131.hg.1 | -4.34 | PSR03002502.hg.1 | RARB |
| TC03000131.hg.1 | -5.06 | PSR03002489.hg.1 | RARB |
| TC03000131.hg.1 | -6.17 | JUC03001341.hg.1 | RARB |
| TC03000995.hg.1 | 2.43 | PSR03017266.hg.1 | ABCF3 |
| TC03000995.hg.1 | 2.06 | PSR03017267.hg.1 | ABCF3 |
| TC03000995.hg.1 | -2.23 | JUC03008790.hg.1 | ABCF3 |
| TC03003413.hg.1 | 2.43 | JUC03024613.hg.1 | ITIH4 |
| TC03003413.hg.1 | 2.18 | JUC03024619.hg.1 | ITIH4 |
| TC03003413.hg.1 | 2.04 | PSR03026542.hg.1 | ITIH4 |
| TC03003413.hg.1 | -2.36 | JUC03024638.hg.1 | ITIH4 |
| TC03003413.hg.1 | -2.95 | JUC03024629.hg.1 | ITIH4 |
| TC04000833.hg.1 | 2.43 | JUC04006159.hg.1 | TLL1 |
| TC04000833.hg.1 | 2.28 | PSR04011495.hg.1 | TLL1 |
| TC04000833.hg.1 | 2.17 | JUC04006148.hg.1 | TLL1 |
| TC04000833.hg.1 | -2.15 | PSR04011502.hg.1 | TLL1 |
| TC05000622.hg.1 | 2.43 | JUC05004692.hg.1 | LYRM7 |
| TC05000622.hg.1 | 2.4 | PSR05008647.hg.1 | LYRM7 |
| TC05000622.hg.1 | 2 | PSR05008634.hg.1 | LYRM7 |
| TC06001725.hg.1 | 2.43 | JUC06009765.hg.1 | USP49 |
| TC06001725.hg.1 | 2.35 | JUC06009757.hg.1 | USP49 |
| TC06001725.hg.1 | 2.26 | PSR06020574.hg.1 | USP49 |
| TC07000191.hg.1 | 2.43 | JUC07001416.hg.1 | PLEKHA8 |
| TC07000191.hg.1 | 2.26 | PSR07002974.hg.1 | PLEKHA8 |
| TC07000191.hg.1 | -2.08 | PSR07002973.hg.1 | PLEKHA8 |
| TC07000191.hg.1 | -3.53 | PSR07002970.hg.1 | PLEKHA8 |
| TC07001055.hg.1 | 2.43 | PSR07016265.hg.1 | DNAJB6 |
| TC07001055.hg.1 | 2.12 | JUC07007892.hg.1 | DNAJB6 |
| TC07001055.hg.1 | -2.32 | PSR07016276.hg.1 | DNAJB6 |
| TC07001055.hg.1 | -2.36 | JUC07007880.hg.1 | DNAJB6 |
| TC07001055.hg.1 | -2.83 | PSR07016285.hg.1 | DNAJB6 |
| TC08001359.hg.1 | 2.43 | PSR08017530.hg.1 | ZNF704 |
| TC08001359.hg.1 | 2.22 | PSR08017532.hg.1 | ZNF704 |
| TC08001359.hg.1 | 2.14 | PSR08017533.hg.1 | ZNF704 |
| TC08001359.hg.1 | 2.08 | JUC08008934.hg.1 | ZNF704 |
| TC08001359.hg.1 | 2.07 | PSR08017547.hg.1 | ZNF704 |
| TC09000864.hg.1 | 2.43 | JUC09006210.hg.1 | CBWD1 |
| TC09000864.hg.1 | 2.12 | JUC09006223.hg.1 | CBWD1 |
| TC09000864.hg.1 | 2.01 | JUC09006225.hg.1 | CBWD1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC09000864.hg.1 | -2.02 | JUC09006228.hg.1 | CBWD1 |
| TC09000864.hg.1 | -2.05 | PSR09011506.hg.1 | CBWD1 |
| TC09000864.hg.1 | -2.05 | PSR09011522.hg.1 | CBWD1 |
| TC09000864.hg.1 | -2.31 | PSR09011519.hg.1 | CBWD1 |
| TC09000864.hg.1 | -2.52 | PSR09011514.hg.1 | CBWD1 |
| TC09000864.hg.1 | -2.52 | PSR09011533.hg.1 | CBWD1 |
| TC09000864.hg.1 | -2.58 | PSR09011525.hg.1 | CBWD1 |
| TC09000916.hg.1 | 2.43 | PSR09012191.hg.1 | NFIB |
| TC09000916.hg.1 | -4.29 | JUC09006646.hg.1 | NFIB |
| TC0X000014.hg.1 | 2.43 | PSR0X000215.hg.1 | CD99 |
| TC0X000014.hg.1 | 2.11 | JUC0X000107.hg.1 | CD99 |
| TC0X000014.hg.1 | -3.41 | JUC0X000096.hg.1 | CD99 |
| TC12000986.hg.1 | 2.43 | JUC12007131.hg.1 | SNRNP35 |
| TC12000986.hg.1 | 2.12 | PSR12013041.hg.1 | SNRNP35 |
| TC12000986.hg.1 | 2.02 | JUC12007136.hg.1 | SNRNP35 |
| TC12000986.hg.1 | -2.25 | JUC12007130.hg.1 | SNRNP35 |
| TC12000986.hg.1 | -2.48 | PSR12013046.hg.1 | SNRNP35 |
| TC12001276.hg.1 | 2.43 | JUC12009110.hg.1 | MGP |
| TC12001276.hg.1 | -2.26 | JUC12009113.hg.1 | MGP |
| TC12001276.hg.1 | -2.28 | PSR12016616.hg.1 | MGP |
| TC13000612.hg.1 | 2.43 | PSR13006973.hg.1 | EPSTI1 |
| TC13000612.hg.1 | 2.09 | JUC13004067.hg.1 | EPSTI1 |
| TC15000039.hg.1 | 2.43 | JUC15000190.hg.1 | LOC653061 |
| TC15000039.hg.1 | -2.17 | PSR15000275.hg.1 | LOC653061 |
| TC15000039.hg.1 | -2.64 | JUC15000191.hg.1 | LOC653061 |
| TC16000370.hg.1 | 2.43 | JUC16002943.hg.1 | BCKDK |
| TC16000370.hg.1 | 2.29 | PSR16005391.hg.1 | BCKDK |
| TC16000370.hg.1 | 2.08 | PSR16005388.hg.1 | BCKDK |
| TC16000370.hg.1 | 2.01 | PSR16005396.hg.1 | BCKDK |
| TC19001532.hg.1 | 2.43 | JUC19012002.hg.1 | AKT2 |
| TC19001532.hg.1 | -2.14 | PSR19020939.hg.1 | AKT2 |
| TC19001532.hg.1 | -2.97 | PSR19020936.hg.1 | AKT2 |
| TC20000801.hg.1 | 2.43 | PSR20010776.hg.1 | C20orf173 |
| TC20000801.hg.1 | 2.24 | JUC20005626.hg.1 | C20orf173 |
| TC21000162.hg.1 | 2.43 | JUC21000714.hg.1 | TTC3, TTC3F |
| TC21000162.hg.1 | 2.12 | PSR21001424.hg.1 | TTC3, TTC3F |
| TC21000162.hg.1 | -2.1 | JUC21000705.hg.1 | TTC3, TTC3F |
| TC21000162.hg.1 | -2.65 | JUC21000724.hg.1 | TTC3, TTC3F |
| TC21000162.hg.1 | -2.71 | JUC21000701.hg.1 | TTC3, TTC3F |
| TC6_apd_hap1000 | 2.43 | PSR6_apd_hap1000 | SAPCD1, MS |
| TC6_apd_hap1000 | 2.13 | JUC6_apd_hap1000 | SAPCD1, MS |
| TC6_apd_hap1000 | 2 | JUC6_apd_hap1000 | SAPCD1, MS |
| TC6_apd_hap1000 | -2.04 | JUC6_apd_hap1000 | SAPCD1, MS |
| TC6_apd_hap1000 | -2.13 | JUC6_apd_hap1000 | SAPCD1, MS |
| TC6_apd_hap1000 | -2.45 | JUC6_apd_hap1000 | SAPCD1, MS |
| TC6_apd_hap1000 | -2.99 | JUC6_apd_hap1000 | SAPCD1, MS |
| TC6_cox_hap2000 | 2.43 | PSR6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | 2.37 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | 2.33 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | 2.13 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | 2 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | -2.04 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | -2.13 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | -2.45 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_cox_hap2000 | -2.99 | JUC6_cox_hap2000 | SAPCD1, MS |
| TC6_dbb_hap3000 | 2.43 | PSR6_dbb_hap3000 | PRRC2A |
| TC6_dbb_hap3000 | 2.33 | PSR6_dbb_hap3000 | PRRC2A |
| TC6_dbb_hap3000 | 2.22 | JUC6_dbb_hap3000 | PRRC2A |

| | | | |
|-----------------|-------|------------------|-------------|
| TC6_dbb_hap3000 | 2.01 | PSR6_dbb_hap3000 | PRRC2A |
| TC01001090.hg.1 | 2.42 | JUC01008757.hg.1 | TXNIP |
| TC01001090.hg.1 | 2.31 | PSR01017160.hg.1 | TXNIP |
| TC01001090.hg.1 | -2.15 | PSR01017177.hg.1 | TXNIP |
| TC01001090.hg.1 | -2.26 | PSR01017165.hg.1 | TXNIP |
| TC01001090.hg.1 | -2.31 | PSR01017174.hg.1 | TXNIP |
| TC01001435.hg.1 | 2.42 | PSR01022404.hg.1 | PBX1 |
| TC01001435.hg.1 | 2.35 | PSR01022400.hg.1 | PBX1 |
| TC01001435.hg.1 | -2.03 | PSR01022395.hg.1 | PBX1 |
| TC01001435.hg.1 | -2.06 | JUC01011832.hg.1 | PBX1 |
| TC01001435.hg.1 | -2.29 | JUC01011807.hg.1 | PBX1 |
| TC01002197.hg.1 | 2.42 | PSR01033955.hg.1 | MTOR |
| TC01002197.hg.1 | -2.07 | PSR01033949.hg.1 | MTOR |
| TC01002197.hg.1 | -2.08 | PSR01033914.hg.1 | MTOR |
| TC01002197.hg.1 | -2.2 | PSR01033925.hg.1 | MTOR |
| TC01002197.hg.1 | -2.27 | JUC01018188.hg.1 | MTOR |
| TC01002197.hg.1 | -2.4 | PSR01033932.hg.1 | MTOR |
| TC01002197.hg.1 | -3.05 | PSR01033954.hg.1 | MTOR |
| TC01002876.hg.1 | 2.42 | JUC01024086.hg.1 | LOC1001315 |
| TC01002876.hg.1 | 2.05 | JUC01024070.hg.1 | LOC1001315 |
| TC01002876.hg.1 | -2.26 | PSR01044831.hg.1 | LOC1001315 |
| TC01002876.hg.1 | -2.29 | PSR01044846.hg.1 | LOC1001315 |
| TC01002876.hg.1 | -3.03 | JUC01024097.hg.1 | LOC1001315 |
| TC01003268.hg.1 | 2.42 | JUC01026582.hg.1 | S100A2 |
| TC01003268.hg.1 | 2.33 | JUC01026579.hg.1 | S100A2 |
| TC01003268.hg.1 | 2.19 | JUC01026580.hg.1 | S100A2 |
| TC01003268.hg.1 | 2.06 | PSR01050289.hg.1 | S100A2 |
| TC02001105.hg.1 | 2.42 | JUC02008890.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.3 | JUC02008896.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.26 | PSR02016655.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.26 | PSR02016659.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.2 | JUC02008902.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.14 | PSR02016620.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.1 | PSR02016622.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.04 | PSR02016675.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.03 | JUC02008870.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2.01 | PSR02016651.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | 2 | JUC02008886.hg.1 | COL3A1, MIF |
| TC02001105.hg.1 | -2.1 | PSR02016610.hg.1 | COL3A1, MIF |
| TC02001238.hg.1 | 2.42 | PSR02018982.hg.1 | MAP2 |
| TC02001238.hg.1 | 2.42 | JUC02010201.hg.1 | MAP2 |
| TC02001238.hg.1 | 2.31 | JUC02010190.hg.1 | MAP2 |
| TC02001238.hg.1 | 2.14 | PSR02018986.hg.1 | MAP2 |
| TC02001238.hg.1 | 2.13 | JUC02010194.hg.1 | MAP2 |
| TC02001238.hg.1 | 2.1 | JUC02010182.hg.1 | MAP2 |
| TC02001238.hg.1 | 2.04 | JUC02010208.hg.1 | MAP2 |
| TC02001238.hg.1 | -2.39 | JUC02010197.hg.1 | MAP2 |
| TC02001238.hg.1 | -2.8 | JUC02010198.hg.1 | MAP2 |
| TC03001074.hg.1 | 2.42 | JUC03009503.hg.1 | FLJ34208 |
| TC03001074.hg.1 | 2.06 | PSR03018722.hg.1 | FLJ34208 |
| TC03001074.hg.1 | 2.06 | PSR03018728.hg.1 | FLJ34208 |
| TC03001292.hg.1 | 2.42 | PSR03022165.hg.1 | PLCD1 |
| TC03001292.hg.1 | 2.38 | PSR03022163.hg.1 | PLCD1 |
| TC03001292.hg.1 | 2.38 | PSR03022175.hg.1 | PLCD1 |
| TC03001292.hg.1 | 2.34 | PSR03022179.hg.1 | PLCD1 |
| TC03001292.hg.1 | 2.05 | PSR03022184.hg.1 | PLCD1 |
| TC03001292.hg.1 | 2 | PSR03022152.hg.1 | PLCD1 |
| TC03001292.hg.1 | -2.39 | JUC03011079.hg.1 | PLCD1 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC03001292.hg.1 | -2.77 | JUC03011071.hg.1 | PLCD1 |
| TC03003366.hg.1 | 2.42 | JUC03023915.hg.1 | LOC440993 |
| TC03003366.hg.1 | 2.11 | JUC03023918.hg.1 | LOC440993 |
| TC03003366.hg.1 | -2.3 | PSR03018806.hg.1 | LOC440993 |
| TC04000074.hg.1 | 2.42 | JUC04000762.hg.1 | KIAA0232 |
| TC04000074.hg.1 | 2.07 | PSR04001651.hg.1 | KIAA0232 |
| TC04000074.hg.1 | -2.03 | JUC04000767.hg.1 | KIAA0232 |
| TC04000074.hg.1 | -3.46 | JUC04000759.hg.1 | KIAA0232 |
| TC04000770.hg.1 | 2.42 | JUC04005674.hg.1 | TRIM2 |
| TC04000770.hg.1 | 2.25 | PSR04010575.hg.1 | TRIM2 |
| TC04000770.hg.1 | 2.04 | PSR04010574.hg.1 | TRIM2 |
| TC04000770.hg.1 | -2 | PSR04010590.hg.1 | TRIM2 |
| TC04000770.hg.1 | -2.12 | JUC04005688.hg.1 | TRIM2 |
| TC04000770.hg.1 | -2.14 | PSR04010593.hg.1 | TRIM2 |
| TC04000770.hg.1 | -2.24 | JUC04005679.hg.1 | TRIM2 |
| TC04000770.hg.1 | -4.09 | JUC04005691.hg.1 | TRIM2 |
| TC05001887.hg.1 | 2.42 | PSR05026086.hg.1 | NR3C1 |
| TC05001887.hg.1 | 2.3 | JUC05013299.hg.1 | NR3C1 |
| TC05001887.hg.1 | 2 | PSR05026092.hg.1 | NR3C1 |
| TC06000383.hg.1 | 2.42 | PSR06003906.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | 2.36 | JUC06001623.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | 2.32 | JUC06001611.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | 2.12 | JUC06001597.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | 2 | JUC06001605.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | -2.04 | JUC06001600.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | -2.13 | JUC06001628.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | -2.46 | JUC06001632.hg.1 | SAPCD1, MS |
| TC06000383.hg.1 | -3 | JUC06001626.hg.1 | SAPCD1, MS |
| TC10000047.hg.1 | 2.42 | PSR10000414.hg.1 | NET1 |
| TC10000047.hg.1 | -2.33 | JUC10000208.hg.1 | NET1 |
| TC10000047.hg.1 | -2.67 | PSR10000409.hg.1 | NET1 |
| TC10000323.hg.1 | 2.42 | JUC10002166.hg.1 | WDFY4 |
| TC10000323.hg.1 | -2.63 | PSR10003720.hg.1 | WDFY4 |
| TC10000323.hg.1 | -2.64 | JUC10002143.hg.1 | WDFY4 |
| TC10000979.hg.1 | 2.42 | JUC10007128.hg.1 | KLF6 |
| TC10000979.hg.1 | -2.54 | PSR10012314.hg.1 | KLF6 |
| TC14000411.hg.1 | 2.42 | JUC14002482.hg.1 | RAD51B |
| TC14000411.hg.1 | -2.05 | PSR14004861.hg.1 | RAD51B |
| TC15002779.hg.1 | 2.42 | PSR15015769.hg.1 | HEXA |
| TC15002779.hg.1 | 2.34 | JUC15013527.hg.1 | HEXA |
| TC16000154.hg.1 | 2.42 | PSR16002349.hg.1 | ATF7IP2, LOC |
| TC16000154.hg.1 | -2.46 | JUC16001185.hg.1 | ATF7IP2, LOC |
| TC22001461.hg.1 | 2.42 | PSR22003972.hg.1 | SEC14L2 |
| TC22001461.hg.1 | 2.36 | JUC22009208.hg.1 | SEC14L2 |
| TC22001461.hg.1 | -5.13 | JUC22009204.hg.1 | SEC14L2 |
| TC01000346.hg.1 | 2.41 | JUC01002790.hg.1 | HMG2 |
| TC01000346.hg.1 | 2.22 | JUC01002783.hg.1 | HMG2 |
| TC01000346.hg.1 | 2.05 | PSR01005311.hg.1 | HMG2 |
| TC01002374.hg.1 | 2.41 | JUC01019722.hg.1 | C1orf63 |
| TC01002374.hg.1 | -2.07 | PSR01036618.hg.1 | C1orf63 |
| TC01002374.hg.1 | -3.97 | JUC01019711.hg.1 | C1orf63 |
| TC01002845.hg.1 | 2.41 | PSR01044339.hg.1 | GBP3 |
| TC01002845.hg.1 | 2.4 | JUC01023816.hg.1 | GBP3 |
| TC01002845.hg.1 | 2.16 | PSR01044343.hg.1 | GBP3 |
| TC01002845.hg.1 | 2.07 | JUC01023821.hg.1 | GBP3 |
| TC01002845.hg.1 | -2.09 | JUC01023822.hg.1 | GBP3 |
| TC01002845.hg.1 | -2.26 | PSR01044345.hg.1 | GBP3 |
| TC01002845.hg.1 | -2.29 | PSR01044330.hg.1 | GBP3 |

| | | | |
|-----------------|-------|------------------|---------------|
| TC01003560.hg.1 | 2.41 | JUC01028778.hg.1 | SEC16B, LOC |
| TC01003560.hg.1 | 2.38 | JUC01028775.hg.1 | SEC16B, LOC |
| TC01003560.hg.1 | 2.3 | JUC01028792.hg.1 | SEC16B, LOC |
| TC01003560.hg.1 | 2.17 | PSR01055185.hg.1 | SEC16B, LOC |
| TC01003560.hg.1 | -2.16 | JUC01028826.hg.1 | SEC16B, LOC |
| TC01003560.hg.1 | -3.09 | JUC01028820.hg.1 | SEC16B, LOC |
| TC01003560.hg.1 | -3.73 | JUC01028770.hg.1 | SEC16B, LOC |
| TC03001487.hg.1 | 2.41 | JUC03013144.hg.1 | FAM208A |
| TC03001487.hg.1 | 2.3 | PSR03027005.hg.1 | FAM208A |
| TC03001487.hg.1 | -2.75 | JUC03013167.hg.1 | FAM208A |
| TC05002011.hg.1 | 2.41 | PSR05027963.hg.1 | ATP10B |
| TC05002011.hg.1 | 2.3 | JUC05014268.hg.1 | ATP10B |
| TC05002011.hg.1 | 2.22 | PSR05027982.hg.1 | ATP10B |
| TC05002011.hg.1 | -2.29 | JUC05014250.hg.1 | ATP10B |
| TC05002011.hg.1 | -2.82 | JUC05014281.hg.1 | ATP10B |
| TC08001528.hg.1 | 2.41 | PSR08020090.hg.1 | NUDCD1 |
| TC08001528.hg.1 | 2.36 | JUC08010221.hg.1 | NUDCD1 |
| TC09000354.hg.1 | 2.41 | PSR09003823.hg.1 | VPS13A |
| TC09000354.hg.1 | 2.06 | JUC09002059.hg.1 | VPS13A |
| TC09000354.hg.1 | -2.03 | JUC09002057.hg.1 | VPS13A |
| TC09000354.hg.1 | -2.07 | JUC09002080.hg.1 | VPS13A |
| TC09000354.hg.1 | -2.14 | JUC09002045.hg.1 | VPS13A |
| TC09000354.hg.1 | -2.15 | JUC09002087.hg.1 | VPS13A |
| TC09000354.hg.1 | -2.97 | JUC09002079.hg.1 | VPS13A |
| TC10000475.hg.1 | 2.41 | PSR10005606.hg.1 | PLAU |
| TC10000475.hg.1 | 2.02 | JUC10003293.hg.1 | PLAU |
| TC10000475.hg.1 | -2.12 | PSR10005605.hg.1 | PLAU |
| TC10000475.hg.1 | -4.25 | JUC10003307.hg.1 | PLAU |
| TC10000475.hg.1 | -4.28 | PSR10005623.hg.1 | PLAU |
| TC10000475.hg.1 | -5.16 | JUC10003302.hg.1 | PLAU |
| TC10000475.hg.1 | -5.91 | PSR10005594.hg.1 | PLAU |
| TC10000475.hg.1 | -7.11 | PSR10005600.hg.1 | PLAU |
| TC10000475.hg.1 | -7.36 | JUC10003304.hg.1 | PLAU |
| TC10000475.hg.1 | -7.43 | JUC10003308.hg.1 | PLAU |
| TC11000669.hg.1 | 2.41 | JUC11004371.hg.1 | PELI3 |
| TC11000669.hg.1 | 2.1 | PSR11008402.hg.1 | PELI3 |
| TC11000669.hg.1 | 2.03 | PSR11008407.hg.1 | PELI3 |
| TC11001274.hg.1 | 2.41 | PSR11016099.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | 2.2 | JUC11008678.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -2.71 | PSR11016103.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -3.77 | PSR11016122.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -4.71 | PSR11016138.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -4.71 | PSR11016146.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -4.95 | PSR11016135.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -5.24 | PSR11016151.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -5.31 | PSR11016129.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -5.39 | PSR11016157.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -5.52 | PSR11016140.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -5.57 | PSR11016141.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -5.9 | PSR11016144.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.43 | JUC11008682.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.44 | PSR11016148.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.52 | PSR11016130.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.59 | JUC11008676.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.65 | JUC11008677.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.67 | PSR11016147.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -6.78 | PSR11016134.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -7.62 | JUC11008680.hg.1 | INS, IGF2, IN |

| | | | |
|------------------|-------|-------------------|---------------|
| TC11001274.hg.1 | -7.69 | JUC11008668.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -8.48 | PSR11016133.hg.1 | INS, IGF2, IN |
| TC11001274.hg.1 | -8.93 | JUC11008662.hg.1 | INS, IGF2, IN |
| TC12001094.hg.1 | 2.41 | PSR12014503.hg.1 | DCP1B |
| TC12001094.hg.1 | 2.26 | PSR12014493.hg.1 | DCP1B |
| TC12001094.hg.1 | -2.73 | JUC12007972.hg.1 | DCP1B |
| TC12001094.hg.1 | -2.85 | PSR12014505.hg.1 | DCP1B |
| TC12002081.hg.1 | 2.41 | PSR12027430.hg.1 | ABCB9 |
| TC12002081.hg.1 | -2.5 | JUC12015358.hg.1 | ABCB9 |
| TC15000315.hg.1 | 2.41 | JUC15001205.hg.1 | JMJD7, PLA2 |
| TC15000315.hg.1 | -2.06 | PSR15002473.hg.1 | JMJD7, PLA2 |
| TC15000315.hg.1 | -2.09 | PSR15002453.hg.1 | JMJD7, PLA2 |
| TC15000315.hg.1 | -2.18 | JUC15001194.hg.1 | JMJD7, PLA2 |
| TC15000315.hg.1 | -2.4 | JUC15001220.hg.1 | JMJD7, PLA2 |
| TC15000315.hg.1 | -2.65 | JUC15001183.hg.1 | JMJD7, PLA2 |
| TC16000859.hg.1 | 2.41 | JUC16006987.hg.1 | FAM18A |
| TC16000859.hg.1 | 2.04 | PSR16012402.hg.1 | FAM18A |
| TC16000965.hg.1 | 2.41 | JUC16007809.hg.1 | EARS2 |
| TC16000965.hg.1 | -2.22 | PSR16013885.hg.1 | EARS2 |
| TC6_cox_hap2000 | 2.41 | PSR6_cox_hap2000 | ABCF1 |
| TC6_cox_hap2000 | 2.41 | JUC6_cox_hap2000 | ABCF1 |
| TC6_cox_hap2000 | 2.04 | PSR6_cox_hap2000 | ABCF1 |
| TC6_dbb_hap3000 | 2.41 | PSR6_dbb_hap3000 | ABCF1 |
| TC6_dbb_hap3000 | 2.41 | JUC6_dbb_hap3000 | ABCF1 |
| TC6_dbb_hap3000 | 2.04 | PSR6_dbb_hap3000 | ABCF1 |
| TC6_qbl_hap6000 | 2.41 | PSR6_qbl_hap6000 | ABCF1 |
| TC6_qbl_hap6000 | 2.41 | JUC6_qbl_hap6000 | ABCF1 |
| TC6_qbl_hap6000 | 2.04 | PSR6_qbl_hap6000 | ABCF1 |
| TC6_ssto_hap7000 | 2.41 | PSR6_ssto_hap7000 | ABCF1 |
| TC6_ssto_hap7000 | 2.41 | JUC6_ssto_hap7000 | ABCF1 |
| TC6_ssto_hap7000 | 2.04 | PSR6_ssto_hap7000 | ABCF1 |
| TC12000859.hg.1 | 2.41 | JUC12006225.hg.1 | TCTN1 |
| TC12000859.hg.1 | 2.29 | JUC12006226.hg.1 | TCTN1 |
| TC12000859.hg.1 | 2 | PSR12011257.hg.1 | TCTN1 |
| TC01001596.hg.1 | 2.4 | JUC01013185.hg.1 | SWT1 |
| TC01001596.hg.1 | 2.36 | PSR01024732.hg.1 | SWT1 |
| TC01001596.hg.1 | -2.01 | JUC01013197.hg.1 | SWT1 |
| TC01001596.hg.1 | -2.36 | JUC01013183.hg.1 | SWT1 |
| TC01001596.hg.1 | -2.51 | JUC01013196.hg.1 | SWT1 |
| TC02001414.hg.1 | 2.4 | PSR02022452.hg.1 | INPP5D |
| TC02001414.hg.1 | -2.55 | PSR02022491.hg.1 | INPP5D |
| TC02001414.hg.1 | -2.9 | JUC02011801.hg.1 | INPP5D |
| TC02001414.hg.1 | -3.13 | JUC02011810.hg.1 | INPP5D |
| TC02001414.hg.1 | -4.81 | JUC02011830.hg.1 | INPP5D |
| TC03002083.hg.1 | 2.4 | JUC03018313.hg.1 | CRYGS |
| TC03002083.hg.1 | 2.27 | PSR03037019.hg.1 | CRYGS |
| TC05001289.hg.1 | 2.4 | JUC05009277.hg.1 | LIFR |
| TC05001289.hg.1 | 2.11 | PSR05018061.hg.1 | LIFR |
| TC05001289.hg.1 | -2 | PSR05018058.hg.1 | LIFR |
| TC05001289.hg.1 | -2.61 | JUC05009274.hg.1 | LIFR |
| TC05001289.hg.1 | -2.64 | PSR05018056.hg.1 | LIFR |
| TC05001289.hg.1 | -2.92 | PSR05018065.hg.1 | LIFR |
| TC05001289.hg.1 | -3.01 | PSR05018057.hg.1 | LIFR |
| TC05001289.hg.1 | -3.36 | PSR05018036.hg.1 | LIFR |
| TC05001289.hg.1 | -3.41 | PSR05018066.hg.1 | LIFR |
| TC05001289.hg.1 | -4.53 | JUC05009280.hg.1 | LIFR |
| TC06001062.hg.1 | 2.4 | JUC06006134.hg.1 | LOC1005075 |
| TC06001062.hg.1 | -2.35 | PSR06012535.hg.1 | LOC1005075 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC09000679.hg.1 | 2.4 | JUC09004548.hg.1 | DNM1 |
| TC09000679.hg.1 | 2.18 | PSR09008210.hg.1 | DNM1 |
| TC09000679.hg.1 | 2.18 | JUC09004563.hg.1 | DNM1 |
| TC09000679.hg.1 | 2.16 | JUC09004568.hg.1 | DNM1 |
| TC09000679.hg.1 | 2.03 | JUC09004555.hg.1 | DNM1 |
| TC09000679.hg.1 | -2 | PSR09008206.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.15 | JUC09004571.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.16 | PSR09008216.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.21 | PSR09008204.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.21 | PSR09008239.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.3 | PSR09008186.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.3 | PSR09008223.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.33 | PSR09008221.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.45 | PSR09008227.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.47 | JUC09004558.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.57 | JUC09004542.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.61 | PSR09008232.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.66 | JUC09004554.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.68 | PSR09008233.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.7 | JUC09004543.hg.1 | DNM1 |
| TC09000679.hg.1 | -2.89 | PSR09008215.hg.1 | DNM1 |
| TC09000679.hg.1 | -3.11 | JUC09004553.hg.1 | DNM1 |
| TC09000679.hg.1 | -3.21 | PSR09008228.hg.1 | DNM1 |
| TC10001585.hg.1 | 2.4 | JUC10011881.hg.1 | DNMBP |
| TC10001585.hg.1 | 2.29 | PSR10020408.hg.1 | DNMBP |
| TC10001585.hg.1 | 2.2 | JUC10011878.hg.1 | DNMBP |
| TC10001585.hg.1 | 2.12 | PSR10020415.hg.1 | DNMBP |
| TC10001585.hg.1 | -2.13 | JUC10011880.hg.1 | DNMBP |
| TC11002319.hg.1 | 2.4 | JUC11014777.hg.1 | LOC283143 |
| TC11002319.hg.1 | -2.25 | PSR11027721.hg.1 | LOC283143 |
| TC11002319.hg.1 | -2.37 | PSR11027714.hg.1 | LOC283143 |
| TC14001140.hg.1 | 2.4 | JUC14006547.hg.1 | TXNDC16 |
| TC14001140.hg.1 | 2.18 | PSR14012921.hg.1 | TXNDC16 |
| TC14001140.hg.1 | 2.07 | JUC14006536.hg.1 | TXNDC16 |
| TC15000010.hg.1 | 2.4 | JUC15000028.hg.1 | GOLGA8C |
| TC15000010.hg.1 | 2.3 | JUC15000022.hg.1 | GOLGA8C |
| TC15000010.hg.1 | -2.13 | PSR15000025.hg.1 | GOLGA8C |
| TC15000134.hg.1 | 2.4 | PSR15000825.hg.1 | GOLGA8F, G |
| TC15000134.hg.1 | -2.01 | PSR15000830.hg.1 | GOLGA8F, G |
| TC15000134.hg.1 | -2.44 | JUC15000273.hg.1 | GOLGA8F, G |
| TC22000873.hg.1 | 2.4 | JUC22006173.hg.1 | KIAA0930 |
| TC22000873.hg.1 | 2.24 | JUC22006171.hg.1 | KIAA0930 |
| TC22000873.hg.1 | 2.1 | PSR22014805.hg.1 | KIAA0930 |
| TC01000827.hg.1 | 2.39 | JUC01006938.hg.1 | HS2ST1, LOC |
| TC01000827.hg.1 | 2.19 | JUC01006941.hg.1 | HS2ST1, LOC |
| TC01000827.hg.1 | 2.07 | PSR01013184.hg.1 | HS2ST1, LOC |
| TC02001297.hg.1 | 2.39 | JUC02010640.hg.1 | PNKD |
| TC02001297.hg.1 | 2.37 | PSR02019796.hg.1 | PNKD |
| TC02001297.hg.1 | 2.29 | PSR02019787.hg.1 | PNKD |
| TC02001297.hg.1 | 2.27 | PSR02019788.hg.1 | PNKD |
| TC02001297.hg.1 | 2.15 | PSR02019805.hg.1 | PNKD |
| TC02001297.hg.1 | 2.03 | JUC02010636.hg.1 | PNKD |
| TC02001297.hg.1 | 2.01 | PSR02019808.hg.1 | PNKD |
| TC02002467.hg.1 | 2.39 | JUC02020302.hg.1 | LY75-CD302, |
| TC02002467.hg.1 | 2.16 | JUC02020314.hg.1 | LY75-CD302, |
| TC02002467.hg.1 | 2.02 | JUC02020323.hg.1 | LY75-CD302, |
| TC02002467.hg.1 | -2.03 | PSR02038844.hg.1 | LY75-CD302, |
| TC02002467.hg.1 | -2.04 | JUC02020285.hg.1 | LY75-CD302, |

| | | | |
|-----------------|-------|------------------|-------------|
| TC02002467.hg.1 | -3.13 | JUC02020305.hg.1 | LY75-CD302, |
| TC02004935.hg.1 | 2.39 | PSR02002453.hg.1 | GPN1 |
| TC02004935.hg.1 | 2.07 | JUC02031479.hg.1 | GPN1 |
| TC02004935.hg.1 | -2.32 | JUC02031477.hg.1 | GPN1 |
| TC03001247.hg.1 | 2.39 | JUC03010588.hg.1 | TOP2B, MIR4 |
| TC03001247.hg.1 | 2.27 | PSR03021351.hg.1 | TOP2B, MIR4 |
| TC03001247.hg.1 | 2.17 | JUC03010598.hg.1 | TOP2B, MIR4 |
| TC03001247.hg.1 | 2.07 | JUC03010576.hg.1 | TOP2B, MIR4 |
| TC03001247.hg.1 | -2.79 | JUC03010572.hg.1 | TOP2B, MIR4 |
| TC04001411.hg.1 | 2.39 | PSR04019710.hg.1 | ADH1C |
| TC04001411.hg.1 | -2.07 | JUC04010343.hg.1 | ADH1C |
| TC04001411.hg.1 | -2.44 | PSR04019701.hg.1 | ADH1C |
| TC04001411.hg.1 | -3.72 | JUC04010344.hg.1 | ADH1C |
| TC06000683.hg.1 | 2.39 | JUC06003625.hg.1 | ZNF451 |
| TC06000683.hg.1 | 2.09 | PSR06008165.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.03 | JUC06003631.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.06 | PSR06008210.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.1 | JUC06003636.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.14 | PSR06008204.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.16 | PSR06008202.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.33 | PSR06008217.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.44 | PSR06008201.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.58 | JUC06003640.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.72 | PSR06008216.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.73 | JUC06003644.hg.1 | ZNF451 |
| TC06000683.hg.1 | -2.99 | JUC06003645.hg.1 | ZNF451 |
| TC07002016.hg.1 | 2.39 | JUC07015278.hg.1 | RARRES2 |
| TC07002016.hg.1 | -3.1 | PSR07030811.hg.1 | RARRES2 |
| TC09000384.hg.1 | 2.39 | JUC09002233.hg.1 | RMI1 |
| TC09000384.hg.1 | 2.3 | PSR09004093.hg.1 | RMI1 |
| TC09000384.hg.1 | 2.14 | PSR09004106.hg.1 | RMI1 |
| TC09000384.hg.1 | 2.02 | JUC09002240.hg.1 | RMI1 |
| TC09000852.hg.1 | 2.39 | PSR09011306.hg.1 | EHMT1 |
| TC09000852.hg.1 | -2 | JUC09006073.hg.1 | EHMT1 |
| TC09000852.hg.1 | -2.2 | JUC09006038.hg.1 | EHMT1 |
| TC09001333.hg.1 | 2.39 | JUC09008951.hg.1 | NOL8 |
| TC09001333.hg.1 | -2.08 | JUC09008954.hg.1 | NOL8 |
| TC09001333.hg.1 | -2.18 | PSR09016706.hg.1 | NOL8 |
| TC09001333.hg.1 | -2.56 | PSR09016691.hg.1 | NOL8 |
| TC09001333.hg.1 | -2.67 | PSR09016663.hg.1 | NOL8 |
| TC09001333.hg.1 | -2.87 | JUC09008967.hg.1 | NOL8 |
| TC0X001059.hg.1 | 2.39 | JUC0X007118.hg.1 | FAM156B, FA |
| TC0X001059.hg.1 | -2.13 | PSR0X014244.hg.1 | FAM156B, FA |
| TC0X001429.hg.1 | 2.39 | JUC0X009699.hg.1 | ATP11C |
| TC0X001429.hg.1 | 2.31 | PSR0X019015.hg.1 | ATP11C |
| TC0X001429.hg.1 | 2.24 | JUC0X009698.hg.1 | ATP11C |
| TC10000802.hg.1 | 2.39 | JUC10005353.hg.1 | SMC3 |
| TC10000802.hg.1 | 2.19 | PSR10009594.hg.1 | SMC3 |
| TC10000802.hg.1 | 2.14 | JUC10005342.hg.1 | SMC3 |
| TC10000802.hg.1 | -2.07 | JUC10005367.hg.1 | SMC3 |
| TC11001341.hg.1 | 2.39 | PSR11016899.hg.1 | TRIM5 |
| TC11001341.hg.1 | 2.19 | JUC11009022.hg.1 | TRIM5 |
| TC11001341.hg.1 | 2.17 | JUC11009039.hg.1 | TRIM5 |
| TC11001341.hg.1 | 2.11 | JUC11009042.hg.1 | TRIM5 |
| TC11001341.hg.1 | -2.05 | JUC11009034.hg.1 | TRIM5 |
| TC11001341.hg.1 | -2.17 | PSR11016877.hg.1 | TRIM5 |
| TC11001341.hg.1 | -2.23 | JUC11009027.hg.1 | TRIM5 |
| TC15000873.hg.1 | 2.39 | JUC15004444.hg.1 | UNC45A |

| | | | |
|-----------------|-------|------------------|-----------|
| TC15000873.hg.1 | 2.26 | JUC15004465.hg.1 | UNC45A |
| TC15000873.hg.1 | 2.2 | PSR15008345.hg.1 | UNC45A |
| TC15000873.hg.1 | 2.2 | PSR15008356.hg.1 | UNC45A |
| TC17000975.hg.1 | 2.39 | PSR17013006.hg.1 | INPP5K |
| TC17000975.hg.1 | 2.15 | JUC17007407.hg.1 | INPP5K |
| TC19002635.hg.1 | 2.39 | JUC19017399.hg.1 | TMEM91 |
| TC19002635.hg.1 | -2.3 | PSR19008018.hg.1 | TMEM91 |
| TC20000598.hg.1 | 2.39 | JUC20004475.hg.1 | |
| TC20000598.hg.1 | 2.32 | PSR20008687.hg.1 | |
| TC20000598.hg.1 | 2.27 | PSR20008689.hg.1 | |
| TC21000077.hg.1 | 2.39 | JUC21000256.hg.1 | JAM2 |
| TC21000077.hg.1 | 2.34 | PSR21000406.hg.1 | JAM2 |
| TC21000077.hg.1 | -2.1 | PSR21000402.hg.1 | JAM2 |
| TC21000077.hg.1 | -2.45 | JUC21000258.hg.1 | JAM2 |
| TC21000077.hg.1 | -2.53 | PSR21000404.hg.1 | JAM2 |
| TC21000077.hg.1 | -3.17 | JUC21000247.hg.1 | JAM2 |
| TC21000077.hg.1 | -3.63 | PSR21000400.hg.1 | JAM2 |
| TC22000080.hg.1 | 2.39 | PSR22001241.hg.1 | LOC400891 |
| TC22000080.hg.1 | 2.03 | JUC22000494.hg.1 | LOC400891 |
| TC01000186.hg.1 | 2.38 | JUC01001688.hg.1 | FHAD1 |
| TC01000186.hg.1 | 2.05 | PSR01002998.hg.1 | FHAD1 |
| TC01000800.hg.1 | 2.38 | PSR01012799.hg.1 | LPHN2 |
| TC01000800.hg.1 | 2.2 | JUC01006689.hg.1 | LPHN2 |
| TC01000800.hg.1 | 2.2 | JUC01006712.hg.1 | LPHN2 |
| TC01000800.hg.1 | -2.02 | JUC01006694.hg.1 | LPHN2 |
| TC01000800.hg.1 | -2.02 | JUC01006709.hg.1 | LPHN2 |
| TC01000800.hg.1 | -2.23 | PSR01012777.hg.1 | LPHN2 |
| TC01000800.hg.1 | -2.55 | JUC01006714.hg.1 | LPHN2 |
| TC01001581.hg.1 | 2.38 | JUC01012969.hg.1 | NPL |
| TC01001581.hg.1 | -2.76 | JUC01012979.hg.1 | NPL |
| TC01001581.hg.1 | -2.84 | JUC01012962.hg.1 | NPL |
| TC01001581.hg.1 | -2.98 | JUC01012965.hg.1 | NPL |
| TC01001581.hg.1 | -3.26 | PSR01024398.hg.1 | NPL |
| TC01001581.hg.1 | -3.76 | JUC01012976.hg.1 | NPL |
| TC02001281.hg.1 | 2.38 | JUC02010556.hg.1 | IGFBP2 |
| TC02001281.hg.1 | -2.12 | PSR02019596.hg.1 | IGFBP2 |
| TC03000533.hg.1 | 2.38 | PSR03009835.hg.1 | |
| TC03000533.hg.1 | -2.52 | JUC03004886.hg.1 | |
| TC03001194.hg.1 | 2.38 | PSR03020513.hg.1 | XPC |
| TC03001194.hg.1 | 2.1 | PSR03020474.hg.1 | XPC |
| TC03001194.hg.1 | 2.06 | JUC03010254.hg.1 | XPC |
| TC04001466.hg.1 | 2.38 | PSR04020845.hg.1 | CFI |
| TC04001466.hg.1 | 2.21 | JUC04010952.hg.1 | CFI |
| TC04001466.hg.1 | 2.13 | JUC04010944.hg.1 | CFI |
| TC04002933.hg.1 | 2.38 | JUC04017114.hg.1 | CPZ |
| TC04002933.hg.1 | -3.41 | PSR04001942.hg.1 | CPZ |
| TC05001750.hg.1 | 2.38 | JUC05012148.hg.1 | FLJ33630 |
| TC05001750.hg.1 | -2.34 | JUC05012146.hg.1 | FLJ33630 |
| TC05001750.hg.1 | -2.38 | PSR05023450.hg.1 | FLJ33630 |
| TC06000341.hg.1 | 2.38 | PSR06002940.hg.1 | ABCF1 |
| TC06000341.hg.1 | 2.38 | JUC06001278.hg.1 | ABCF1 |
| TC06000341.hg.1 | 2.01 | PSR06002906.hg.1 | ABCF1 |
| TC06000511.hg.1 | 2.38 | PSR06005395.hg.1 | SCUBE3 |
| TC06000511.hg.1 | 2.37 | JUC06002157.hg.1 | SCUBE3 |
| TC06000511.hg.1 | 2.36 | PSR06005393.hg.1 | SCUBE3 |
| TC06000511.hg.1 | -2.23 | JUC06002174.hg.1 | SCUBE3 |
| TC06000511.hg.1 | -2.35 | JUC06002161.hg.1 | SCUBE3 |
| TC06000511.hg.1 | -2.7 | JUC06002165.hg.1 | SCUBE3 |

| | | | |
|-----------------|-------|------------------|----------|
| TC06000511.hg.1 | -2.86 | JUC06002170.hg.1 | SCUBE3 |
| TC10000895.hg.1 | 2.38 | JUC10006391.hg.1 | PSTK |
| TC10000895.hg.1 | -2.06 | PSR10010978.hg.1 | PSTK |
| TC10001420.hg.1 | 2.38 | JUC10010489.hg.1 | CAMK2G |
| TC10001420.hg.1 | -3.22 | PSR10018012.hg.1 | CAMK2G |
| TC11000820.hg.1 | 2.38 | JUC11005427.hg.1 | C11orf30 |
| TC11000820.hg.1 | -2.13 | JUC11005429.hg.1 | C11orf30 |
| TC11000820.hg.1 | -2.19 | PSR11010465.hg.1 | C11orf30 |
| TC11000820.hg.1 | -2.51 | JUC11005450.hg.1 | C11orf30 |
| TC11000820.hg.1 | -2.57 | JUC11005443.hg.1 | C11orf30 |
| TC13000343.hg.1 | 2.38 | JUC13002203.hg.1 | IPO5 |
| TC13000343.hg.1 | 2.12 | PSR13003637.hg.1 | IPO5 |
| TC13000343.hg.1 | 2.08 | JUC13002217.hg.1 | IPO5 |
| TC13000343.hg.1 | -2.51 | PSR13003621.hg.1 | IPO5 |
| TC13000343.hg.1 | -2.79 | JUC13002231.hg.1 | IPO5 |
| TC15000364.hg.1 | 2.38 | PSR15003322.hg.1 | SQRDL |
| TC15000364.hg.1 | -2.25 | JUC15001567.hg.1 | SQRDL |
| TC16000158.hg.1 | 2.38 | JUC16001239.hg.1 | CIITA |
| TC16000158.hg.1 | 2.26 | JUC16001215.hg.1 | CIITA |
| TC16000158.hg.1 | -2.23 | PSR16002403.hg.1 | CIITA |
| TC17000822.hg.1 | 2.38 | PSR17010572.hg.1 | COG1 |
| TC17000822.hg.1 | -2.44 | JUC17005815.hg.1 | COG1 |
| TC19002605.hg.1 | 2.38 | JUC19017006.hg.1 | FLT3LG |
| TC19002605.hg.1 | 2.14 | PSR19010221.hg.1 | FLT3LG |
| TC20000139.hg.1 | 2.38 | JUC20000972.hg.1 | PLK1S1 |
| TC20000139.hg.1 | -2.07 | PSR20001851.hg.1 | PLK1S1 |
| TC6_mcf_hap5000 | 2.38 | PSR6_mcf_hap5000 | PRRC2A |
| TC6_mcf_hap5000 | 2.29 | PSR6_mcf_hap5000 | PRRC2A |
| TC6_mcf_hap5000 | 2.18 | JUC6_mcf_hap5000 | PRRC2A |
| TC01001568.hg.1 | 2.37 | PSR01024213.hg.1 | MR1 |
| TC01001568.hg.1 | 2.01 | JUC01012853.hg.1 | MR1 |
| TC01001568.hg.1 | -2.22 | PSR01024220.hg.1 | MR1 |
| TC01001568.hg.1 | -2.71 | JUC01012850.hg.1 | MR1 |
| TC01002342.hg.1 | 2.37 | PSR01036098.hg.1 | TCEA3 |
| TC01002342.hg.1 | 2 | PSR01036088.hg.1 | TCEA3 |
| TC01002342.hg.1 | -2.65 | JUC01019453.hg.1 | TCEA3 |
| TC01002342.hg.1 | -2.75 | JUC01019460.hg.1 | TCEA3 |
| TC01003452.hg.1 | 2.37 | PSR01053808.hg.1 | OLFML2B |
| TC01003452.hg.1 | -2.01 | JUC01028042.hg.1 | OLFML2B |
| TC01003452.hg.1 | -2.89 | PSR01053810.hg.1 | OLFML2B |
| TC01003548.hg.1 | 2.37 | JUC01028698.hg.1 | TNR |
| TC01003548.hg.1 | -2.23 | PSR01055005.hg.1 | TNR |
| TC01003548.hg.1 | -2.48 | JUC01028680.hg.1 | TNR |
| TC02001579.hg.1 | 2.37 | JUC02013240.hg.1 | E2F6 |
| TC02001579.hg.1 | -2.08 | JUC02013243.hg.1 | E2F6 |
| TC02001579.hg.1 | -2.19 | PSR02025503.hg.1 | E2F6 |
| TC03000759.hg.1 | 2.37 | JUC03006978.hg.1 | ACPL2 |
| TC03000759.hg.1 | 2.21 | JUC03006955.hg.1 | ACPL2 |
| TC03000759.hg.1 | -2.15 | PSR03013799.hg.1 | ACPL2 |
| TC03000759.hg.1 | -2.18 | JUC03006969.hg.1 | ACPL2 |
| TC05001126.hg.1 | 2.37 | PSR05016312.hg.1 | |
| TC05001126.hg.1 | 2.37 | JUC05008301.hg.1 | |
| TC06001256.hg.1 | 2.37 | JUC06007401.hg.1 | SLC35B3 |
| TC06001256.hg.1 | -2.15 | PSR06015002.hg.1 | SLC35B3 |
| TC06001256.hg.1 | -3.24 | PSR06014999.hg.1 | SLC35B3 |
| TC06001807.hg.1 | 2.37 | JUC06010483.hg.1 | GSTA4 |
| TC06001807.hg.1 | -2.95 | PSR06021828.hg.1 | GSTA4 |
| TC07001923.hg.1 | 2.37 | PSR07029880.hg.1 | MKRN1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC07001923.hg.1 | 2.32 | JUC07014811.hg.1 | MKRN1 |
| TC07001923.hg.1 | -2.2 | JUC07014796.hg.1 | MKRN1 |
| TC07001923.hg.1 | -2.46 | JUC07014797.hg.1 | MKRN1 |
| TC07001923.hg.1 | -3.31 | JUC07014799.hg.1 | MKRN1 |
| TC07001930.hg.1 | 2.37 | JUC07014876.hg.1 | KIAA1147 |
| TC07001930.hg.1 | 2.14 | PSR07030003.hg.1 | KIAA1147 |
| TC07001930.hg.1 | 2.04 | PSR07029990.hg.1 | KIAA1147 |
| TC08000220.hg.1 | 2.37 | JUC08001568.hg.1 | FZD3 |
| TC08000220.hg.1 | 2.35 | JUC08001561.hg.1 | FZD3 |
| TC08000220.hg.1 | 2.32 | JUC08001569.hg.1 | FZD3 |
| TC08000220.hg.1 | 2.23 | PSR08003192.hg.1 | FZD3 |
| TC08000220.hg.1 | 2.06 | PSR08003195.hg.1 | FZD3 |
| TC08000391.hg.1 | 2.37 | JUC08002735.hg.1 | LOC1005076 |
| TC08000391.hg.1 | 2.34 | PSR08005540.hg.1 | LOC1005076 |
| TC09000666.hg.1 | 2.37 | JUC09004398.hg.1 | LRSAM1 |
| TC09000666.hg.1 | 2.25 | JUC09004365.hg.1 | LRSAM1 |
| TC09000666.hg.1 | 2.06 | PSR09007849.hg.1 | LRSAM1 |
| TC09000666.hg.1 | -2.37 | JUC09004372.hg.1 | LRSAM1 |
| TC09000666.hg.1 | -4.56 | JUC09004397.hg.1 | LRSAM1 |
| TC09002889.hg.1 | 2.37 | JUC09015700.hg.1 | FBXO10 |
| TC09002889.hg.1 | -2.15 | PSR09014421.hg.1 | FBXO10 |
| TC09002889.hg.1 | -2.44 | PSR09014422.hg.1 | FBXO10 |
| TC09002889.hg.1 | -4.6 | JUC09015698.hg.1 | FBXO10 |
| TC0X000636.hg.1 | 2.37 | JUC0X004227.hg.1 | HPRT1 |
| TC0X000636.hg.1 | 2.19 | PSR0X008361.hg.1 | HPRT1 |
| TC0X001070.hg.1 | 2.37 | JUC0X007342.hg.1 | PHF8 |
| TC0X001070.hg.1 | 2.03 | PSR0X014545.hg.1 | PHF8 |
| TC0X001070.hg.1 | -2.03 | JUC0X007341.hg.1 | PHF8 |
| TC0X001070.hg.1 | -2.26 | JUC0X007339.hg.1 | PHF8 |
| TC0X001070.hg.1 | -2.75 | JUC0X007333.hg.1 | PHF8 |
| TC11002159.hg.1 | 2.37 | PSR11025805.hg.1 | DLG2 |
| TC11002159.hg.1 | -2.06 | JUC11013680.hg.1 | DLG2 |
| TC11002159.hg.1 | -2.15 | JUC11013689.hg.1 | DLG2 |
| TC11002159.hg.1 | -3.37 | JUC11013686.hg.1 | DLG2 |
| TC12000010.hg.1 | 2.37 | JUC12000109.hg.1 | WNK1 |
| TC12000010.hg.1 | 2.28 | JUC12000128.hg.1 | WNK1 |
| TC12000010.hg.1 | 2.1 | JUC12000116.hg.1 | WNK1 |
| TC12000010.hg.1 | -2.1 | JUC12000120.hg.1 | WNK1 |
| TC12000010.hg.1 | -2.2 | JUC12000110.hg.1 | WNK1 |
| TC12000010.hg.1 | -2.45 | PSR12000142.hg.1 | WNK1 |
| TC12000118.hg.1 | 2.37 | PSR12001600.hg.1 | FOXJ2 |
| TC12000118.hg.1 | 2.33 | PSR12001599.hg.1 | FOXJ2 |
| TC12000118.hg.1 | 2.07 | PSR12001601.hg.1 | FOXJ2 |
| TC12000118.hg.1 | 2.04 | PSR12001615.hg.1 | FOXJ2 |
| TC12000118.hg.1 | 2 | PSR12001613.hg.1 | FOXJ2 |
| TC12000118.hg.1 | 2 | PSR12001614.hg.1 | FOXJ2 |
| TC12000118.hg.1 | -2.06 | JUC12000789.hg.1 | FOXJ2 |
| TC12000858.hg.1 | 2.37 | PSR12011224.hg.1 | RAD9B |
| TC12000858.hg.1 | 2.03 | JUC12006210.hg.1 | RAD9B |
| TC12000858.hg.1 | -2.12 | PSR12011197.hg.1 | RAD9B |
| TC12000858.hg.1 | -2.46 | PSR12011227.hg.1 | RAD9B |
| TC12001087.hg.1 | 2.37 | PSR12014400.hg.1 | RAD52, LOC |
| TC12001087.hg.1 | -2.06 | JUC12007905.hg.1 | RAD52, LOC |
| TC12001087.hg.1 | -2.15 | PSR12014356.hg.1 | RAD52, LOC |
| TC12001087.hg.1 | -2.55 | PSR12014377.hg.1 | RAD52, LOC |
| TC14001127.hg.1 | 2.37 | PSR14012830.hg.1 | TRIM9 |
| TC14001127.hg.1 | 2.16 | PSR14012822.hg.1 | TRIM9 |
| TC14001127.hg.1 | 2.11 | JUC14006481.hg.1 | TRIM9 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC14001127.hg.1 | 2.02 | PSR14012844.hg.1 | TRIM9 |
| TC14001127.hg.1 | -4.8 | JUC14006479.hg.1 | TRIM9 |
| TC16000321.hg.1 | 2.37 | JUC16002559.hg.1 | SLX1A, SULT |
| TC16000321.hg.1 | 2.19 | PSR16004567.hg.1 | SLX1A, SULT |
| TC16000321.hg.1 | -2.64 | JUC16002566.hg.1 | SLX1A, SULT |
| TC16000343.hg.1 | 2.37 | JUC16002732.hg.1 | SLX1A, SULT |
| TC16000343.hg.1 | 2.18 | PSR16004951.hg.1 | SLX1A, SULT |
| TC16000343.hg.1 | -2.64 | JUC16002738.hg.1 | SLX1A, SULT |
| TC17000437.hg.1 | 2.37 | PSR17005182.hg.1 | PIGW |
| TC17000437.hg.1 | -2.33 | JUC17002954.hg.1 | PIGW |
| TC22000049.hg.1 | 2.37 | JUC22000234.hg.1 | TBX1 |
| TC22000049.hg.1 | 2.15 | PSR22000501.hg.1 | TBX1 |
| TC22000049.hg.1 | 2.02 | JUC22000238.hg.1 | TBX1 |
| TC22000049.hg.1 | -2.01 | PSR22000494.hg.1 | TBX1 |
| TC22000049.hg.1 | -3.34 | JUC22000231.hg.1 | TBX1 |
| TC22000049.hg.1 | -3.42 | PSR22000497.hg.1 | TBX1 |
| TC6_cox_hap2000 | 2.37 | PSR6_cox_hap20010 | PRRC2A |
| TC6_cox_hap2000 | 2.28 | PSR6_cox_hap20010 | PRRC2A |
| TC6_cox_hap2000 | 2.17 | JUC6_cox_hap20004 | PRRC2A |
| TC6_qbl_hap60000 | 2.37 | PSR6_qbl_hap60010 | PRRC2A |
| TC6_qbl_hap60000 | 2.28 | PSR6_qbl_hap60010 | PRRC2A |
| TC6_qbl_hap60000 | 2.17 | JUC6_qbl_hap60004 | PRRC2A |
| TC6_ssto_hap7000 | 2.37 | PSR6_ssto_hap7000 | PRRC2A |
| TC6_ssto_hap7000 | 2.28 | PSR6_ssto_hap7000 | PRRC2A |
| TC6_ssto_hap7000 | 2.17 | JUC6_ssto_hap7000 | PRRC2A |
| TC21000202.hg.1 | 2.37 | JUC21001126.hg.1 | SLC37A1 |
| TC21000202.hg.1 | 2 | PSR21002085.hg.1 | SLC37A1 |
| TC03000684.hg.1 | 2.36 | JUC03006090.hg.1 | ACAD9 |
| TC03000684.hg.1 | 2.26 | JUC03006086.hg.1 | ACAD9 |
| TC03000684.hg.1 | -2.01 | PSR03012177.hg.1 | ACAD9 |
| TC03000690.hg.1 | 2.36 | JUC03006153.hg.1 | C3orf37 |
| TC03000690.hg.1 | 2.28 | JUC03006145.hg.1 | C3orf37 |
| TC03000690.hg.1 | 2.18 | PSR03012298.hg.1 | C3orf37 |
| TC03000690.hg.1 | 2 | JUC03006146.hg.1 | C3orf37 |
| TC04000809.hg.1 | 2.36 | PSR04011232.hg.1 | RAPGEF2 |
| TC04000809.hg.1 | 2.14 | JUC04006037.hg.1 | RAPGEF2 |
| TC04000809.hg.1 | 2.09 | PSR04011218.hg.1 | RAPGEF2 |
| TC04000809.hg.1 | -2.07 | JUC04006016.hg.1 | RAPGEF2 |
| TC04000809.hg.1 | -3.26 | JUC04006030.hg.1 | RAPGEF2 |
| TC05002094.hg.1 | 2.36 | JUC05014674.hg.1 | RNF44 |
| TC05002094.hg.1 | -2.05 | PSR05028774.hg.1 | RNF44 |
| TC07001871.hg.1 | 2.36 | PSR07028993.hg.1 | FLJ43663 |
| TC07001871.hg.1 | 2.1 | PSR07028994.hg.1 | FLJ43663 |
| TC07001871.hg.1 | 2.05 | PSR07029000.hg.1 | FLJ43663 |
| TC07001871.hg.1 | -2.99 | JUC07014315.hg.1 | FLJ43663 |
| TC08001215.hg.1 | 2.36 | PSR08015693.hg.1 | ATP6V1H |
| TC08001215.hg.1 | 2.16 | JUC08008127.hg.1 | ATP6V1H |
| TC08001215.hg.1 | -2.31 | JUC08008100.hg.1 | ATP6V1H |
| TC09002929.hg.1 | 2.36 | PSR09000702.hg.1 | KDM4C |
| TC09002929.hg.1 | 2.09 | JUC09016175.hg.1 | KDM4C |
| TC09002929.hg.1 | -2.15 | JUC09016179.hg.1 | KDM4C |
| TC09002929.hg.1 | -2.48 | PSR09000732.hg.1 | KDM4C |
| TC09002929.hg.1 | -2.65 | PSR09000733.hg.1 | KDM4C |
| TC09002929.hg.1 | -3.14 | JUC09016161.hg.1 | KDM4C |
| TC09002929.hg.1 | -3.38 | PSR09000738.hg.1 | KDM4C |
| TC09002929.hg.1 | -5.82 | PSR09000739.hg.1 | KDM4C |
| TC0X001530.hg.1 | 2.36 | JUC0X010195.hg.1 | FLNA |
| TC0X001530.hg.1 | 2.27 | PSR0X020369.hg.1 | FLNA |

| | | | |
|-----------------|-------|------------------|------------|
| TC0X001530.hg.1 | 2.22 | PSR0X020366.hg.1 | FLNA |
| TC0X001530.hg.1 | 2.03 | PSR0X020438.hg.1 | FLNA |
| TC0X001530.hg.1 | 2.02 | JUC0X010173.hg.1 | FLNA |
| TC12000329.hg.1 | 2.36 | JUC12002264.hg.1 | ANO6 |
| TC12000329.hg.1 | 2.2 | PSR12004119.hg.1 | ANO6 |
| TC12000329.hg.1 | 2.05 | JUC12002254.hg.1 | ANO6 |
| TC12000329.hg.1 | -2.35 | JUC12002249.hg.1 | ANO6 |
| TC13000150.hg.1 | 2.36 | JUC13001077.hg.1 | DGKH |
| TC13000150.hg.1 | 2.29 | PSR13001737.hg.1 | DGKH |
| TC13000150.hg.1 | -2.1 | JUC13001098.hg.1 | DGKH |
| TC14000799.hg.1 | 2.36 | JUC14004396.hg.1 | MARK3 |
| TC14000799.hg.1 | -2.19 | PSR14008628.hg.1 | MARK3 |
| TC14000799.hg.1 | -2.31 | PSR14008643.hg.1 | MARK3 |
| TC14000799.hg.1 | -2.51 | JUC14004415.hg.1 | MARK3 |
| TC14000799.hg.1 | -2.93 | PSR14008641.hg.1 | MARK3 |
| TC15000274.hg.1 | 2.36 | JUC15000800.hg.1 | LOC1001310 |
| TC15000274.hg.1 | -2.92 | PSR15001778.hg.1 | LOC1001310 |
| TC17001128.hg.1 | 2.36 | JUC17008670.hg.1 | RCVRN |
| TC17001128.hg.1 | 2.02 | PSR17015194.hg.1 | RCVRN |
| TC17001128.hg.1 | -2.57 | PSR17015196.hg.1 | RCVRN |
| TC17001128.hg.1 | -3.07 | PSR17015192.hg.1 | RCVRN |
| TC17001128.hg.1 | -4.58 | PSR17015198.hg.1 | RCVRN |
| TC21000257.hg.1 | 2.36 | PSR21003129.hg.1 | MCM3AP-AS |
| TC21000257.hg.1 | 2.11 | JUC21001668.hg.1 | MCM3AP-AS |
| TC21000391.hg.1 | 2.36 | PSR21004304.hg.1 | SCAF4 |
| TC21000391.hg.1 | -2.13 | JUC21002300.hg.1 | SCAF4 |
| TC22000660.hg.1 | 2.36 | PSR22011674.hg.1 | MORC2 |
| TC22000660.hg.1 | 2.35 | JUC22004816.hg.1 | MORC2 |
| TC01000514.hg.1 | 2.35 | JUC01004188.hg.1 | ZNF684 |
| TC01000514.hg.1 | -2.3 | PSR01008037.hg.1 | ZNF684 |
| TC01002050.hg.1 | 2.35 | PSR01031213.hg.1 | WASH7P |
| TC01002050.hg.1 | 2.1 | JUC01016961.hg.1 | WASH7P |
| TC01002050.hg.1 | 2.08 | JUC01016946.hg.1 | WASH7P |
| TC01002050.hg.1 | -2.06 | JUC01016959.hg.1 | WASH7P |
| TC02002506.hg.1 | 2.35 | PSR02039664.hg.1 | LOC1008614 |
| TC02002506.hg.1 | -2.3 | JUC02020852.hg.1 | LOC1008614 |
| TC02002688.hg.1 | 2.35 | JUC02022746.hg.1 | RAPH1 |
| TC02002688.hg.1 | 2.01 | PSR02043409.hg.1 | RAPH1 |
| TC02002688.hg.1 | -2.26 | JUC02022747.hg.1 | RAPH1 |
| TC03003340.hg.1 | 2.35 | PSR03028903.hg.1 | CPOX |
| TC03003340.hg.1 | -2.12 | JUC03023442.hg.1 | CPOX |
| TC04000281.hg.1 | 2.35 | JUC04002032.hg.1 | OCIAD1 |
| TC04000281.hg.1 | 2.3 | PSR04004086.hg.1 | OCIAD1 |
| TC04000281.hg.1 | -2.05 | JUC04002033.hg.1 | OCIAD1 |
| TC04000281.hg.1 | -2.66 | JUC04002047.hg.1 | OCIAD1 |
| TC04000648.hg.1 | 2.35 | JUC04005032.hg.1 | LARP1B |
| TC04000648.hg.1 | 2.3 | PSR04009428.hg.1 | LARP1B |
| TC04000648.hg.1 | 2.3 | JUC04005029.hg.1 | LARP1B |
| TC04000648.hg.1 | -2 | JUC04005026.hg.1 | LARP1B |
| TC04000648.hg.1 | -2 | JUC04005043.hg.1 | LARP1B |
| TC04000648.hg.1 | -2.48 | JUC04005036.hg.1 | LARP1B |
| TC05000464.hg.1 | 2.35 | JUC05003621.hg.1 | |
| TC05000464.hg.1 | -2.37 | JUC05003623.hg.1 | |
| TC05000464.hg.1 | -2.39 | PSR05006593.hg.1 | |
| TC05000464.hg.1 | -2.59 | PSR05006594.hg.1 | |
| TC05000464.hg.1 | -2.69 | JUC05003622.hg.1 | |
| TC05000464.hg.1 | -3.22 | PSR05006595.hg.1 | |
| TC05000961.hg.1 | 2.35 | PSR05013975.hg.1 | |

| | | | |
|-----------------|-------|------------------|-------------|
| TC05000961.hg.1 | -2.06 | PSR05013973.hg.1 | |
| TC05000961.hg.1 | -2.14 | PSR05013974.hg.1 | |
| TC05000961.hg.1 | -2.24 | PSR05013971.hg.1 | |
| TC05000961.hg.1 | -2.85 | PSR05013972.hg.1 | |
| TC05000961.hg.1 | -3.78 | JUC05007244.hg.1 | |
| TC05000961.hg.1 | -3.95 | PSR05013976.hg.1 | |
| TC07000245.hg.1 | 2.35 | JUC07001788.hg.1 | STARD3NL |
| TC07000245.hg.1 | -2.39 | PSR07003764.hg.1 | STARD3NL |
| TC07001852.hg.1 | 2.35 | PSR07028731.hg.1 | TNPO3 |
| TC07001852.hg.1 | -2.35 | JUC07014205.hg.1 | TNPO3 |
| TC08001524.hg.1 | 2.35 | JUC08010196.hg.1 | EIF3E |
| TC08001524.hg.1 | -2.09 | PSR08020006.hg.1 | EIF3E |
| TC08001524.hg.1 | -2.11 | JUC08010170.hg.1 | EIF3E |
| TC08001524.hg.1 | -2.26 | JUC08010197.hg.1 | EIF3E |
| TC08001524.hg.1 | -2.27 | PSR08020011.hg.1 | EIF3E |
| TC08001524.hg.1 | -3.61 | JUC08010195.hg.1 | EIF3E |
| TC0X000824.hg.1 | 2.35 | PSR0X011220.hg.1 | VCX3A, VCX3 |
| TC0X000824.hg.1 | 2.35 | JUC0X005490.hg.1 | VCX3A, VCX3 |
| TC10000659.hg.1 | 2.35 | PSR10007368.hg.1 | KIF11 |
| TC10000659.hg.1 | 2.14 | PSR10007376.hg.1 | KIF11 |
| TC10000659.hg.1 | -2.05 | JUC10004200.hg.1 | KIF11 |
| TC10000659.hg.1 | -2.11 | PSR10007378.hg.1 | KIF11 |
| TC10000659.hg.1 | -2.25 | JUC10004188.hg.1 | KIF11 |
| TC10001225.hg.1 | 2.35 | JUC10008834.hg.1 | ZFAND4 |
| TC10001225.hg.1 | 2.17 | PSR10015272.hg.1 | ZFAND4 |
| TC10001225.hg.1 | 2.08 | JUC10008830.hg.1 | ZFAND4 |
| TC10001225.hg.1 | 2.07 | PSR10015299.hg.1 | ZFAND4 |
| TC10001225.hg.1 | 2.05 | JUC10008849.hg.1 | ZFAND4 |
| TC12001080.hg.1 | 2.35 | JUC12007834.hg.1 | SLC6A13 |
| TC12001080.hg.1 | 2.19 | PSR12014282.hg.1 | SLC6A13 |
| TC12003242.hg.1 | 2.35 | PSR12005755.hg.1 | PCBP2 |
| TC12003242.hg.1 | -2.19 | JUC12019932.hg.1 | PCBP2 |
| TC19001095.hg.1 | 2.35 | JUC19008495.hg.1 | KHSRP, MIR3 |
| TC19001095.hg.1 | 2.02 | PSR19015015.hg.1 | KHSRP, MIR3 |
| TC19001480.hg.1 | 2.35 | JUC19011564.hg.1 | ZNF585B |
| TC19001480.hg.1 | 2.26 | PSR19020105.hg.1 | ZNF585B |
| TC22000492.hg.1 | 2.35 | JUC22003568.hg.1 | DGCR14, TS |
| TC22000492.hg.1 | 2.14 | PSR22008825.hg.1 | DGCR14, TS |
| TC22000912.hg.1 | 2.35 | PSR22015494.hg.1 | FAM116B |
| TC22000912.hg.1 | 2.04 | JUC22006521.hg.1 | FAM116B |
| TC22000912.hg.1 | -2.24 | JUC22006527.hg.1 | FAM116B |
| TC08002578.hg.1 | 2.35 | JUC08014646.hg.1 | LEPROTL1 |
| TC08002578.hg.1 | -2 | PSR08003366.hg.1 | LEPROTL1 |
| TC01000113.hg.1 | 2.34 | JUC01000913.hg.1 | H6PD |
| TC01000113.hg.1 | 2.11 | PSR01001733.hg.1 | H6PD |
| TC01000831.hg.1 | 2.34 | JUC01006958.hg.1 | PKN2 |
| TC01000831.hg.1 | 2.05 | PSR01013255.hg.1 | PKN2 |
| TC02001178.hg.1 | 2.34 | JUC02009581.hg.1 | STRADB |
| TC02001178.hg.1 | 2.33 | PSR02017992.hg.1 | STRADB |
| TC02001178.hg.1 | 2.26 | PSR02017955.hg.1 | STRADB |
| TC02001178.hg.1 | 2.14 | PSR02017958.hg.1 | STRADB |
| TC03000664.hg.1 | 2.34 | JUC03005959.hg.1 | MCM2 |
| TC03000664.hg.1 | 2.17 | JUC03005968.hg.1 | MCM2 |
| TC03000664.hg.1 | -2.07 | PSR03011917.hg.1 | MCM2 |
| TC03000664.hg.1 | -2.13 | JUC03005972.hg.1 | MCM2 |
| TC03000664.hg.1 | -2.8 | JUC03005973.hg.1 | MCM2 |
| TC03000664.hg.1 | -3.41 | JUC03005967.hg.1 | MCM2 |
| TC03000664.hg.1 | -4.58 | JUC03005960.hg.1 | MCM2 |

| | | | |
|-----------------|--------|------------------|-----------|
| TC03001528.hg.1 | 2.34 | JUC03013661.hg.1 | MAG1, MAG |
| TC03001528.hg.1 | 2.25 | JUC03013654.hg.1 | MAG1, MAG |
| TC03001528.hg.1 | 2.24 | PSR03027871.hg.1 | MAG1, MAG |
| TC03001528.hg.1 | 2 | PSR03027815.hg.1 | MAG1, MAG |
| TC03001528.hg.1 | 2 | PSR03027818.hg.1 | MAG1, MAG |
| TC04001279.hg.1 | 2.34 | JUC04009362.hg.1 | ANKRD17 |
| TC04001279.hg.1 | 2.13 | JUC04009340.hg.1 | ANKRD17 |
| TC04001279.hg.1 | 2.09 | PSR04017496.hg.1 | ANKRD17 |
| TC04001279.hg.1 | -2.43 | JUC04009359.hg.1 | ANKRD17 |
| TC04001450.hg.1 | 2.34 | JUC04010708.hg.1 | TBCK |
| TC04001450.hg.1 | 2.1 | JUC04010737.hg.1 | TBCK |
| TC04001450.hg.1 | -2.06 | PSR04020485.hg.1 | TBCK |
| TC04001450.hg.1 | -2.29 | JUC04010705.hg.1 | TBCK |
| TC04001450.hg.1 | -2.36 | PSR04020478.hg.1 | TBCK |
| TC04001450.hg.1 | -2.5 | JUC04010745.hg.1 | TBCK |
| TC04001450.hg.1 | -2.62 | JUC04010734.hg.1 | TBCK |
| TC04001450.hg.1 | -3.6 | PSR04020504.hg.1 | TBCK |
| TC06001966.hg.1 | 2.34 | PSR06024308.hg.1 | CCNC |
| TC06001966.hg.1 | -2 | JUC06011913.hg.1 | CCNC |
| TC07001139.hg.1 | 2.34 | JUC07008636.hg.1 | RPA3 |
| TC07001139.hg.1 | 2.32 | JUC07008633.hg.1 | RPA3 |
| TC07001139.hg.1 | 2.13 | PSR07017795.hg.1 | RPA3 |
| TC07001139.hg.1 | -2.08 | PSR07017786.hg.1 | RPA3 |
| TC07001139.hg.1 | -2.44 | JUC07008638.hg.1 | RPA3 |
| TC07001562.hg.1 | 2.34 | JUC07011661.hg.1 | HGF |
| TC07001562.hg.1 | -2.16 | PSR07023472.hg.1 | HGF |
| TC07001562.hg.1 | -2.22 | PSR07023474.hg.1 | HGF |
| TC07001562.hg.1 | -2.27 | PSR07023470.hg.1 | HGF |
| TC07001562.hg.1 | -2.28 | PSR07023475.hg.1 | HGF |
| TC07001562.hg.1 | -2.53 | PSR07023501.hg.1 | HGF |
| TC07001562.hg.1 | -2.66 | PSR07023487.hg.1 | HGF |
| TC07001562.hg.1 | -2.97 | PSR07023495.hg.1 | HGF |
| TC07001562.hg.1 | -3.04 | PSR07023479.hg.1 | HGF |
| TC07001562.hg.1 | -3.15 | JUC07011672.hg.1 | HGF |
| TC07001562.hg.1 | -3.19 | JUC07011662.hg.1 | HGF |
| TC07001562.hg.1 | -3.54 | PSR07023480.hg.1 | HGF |
| TC07001562.hg.1 | -4.31 | PSR07023468.hg.1 | HGF |
| TC07001562.hg.1 | -4.52 | JUC07011673.hg.1 | HGF |
| TC07001562.hg.1 | -4.97 | JUC07011675.hg.1 | HGF |
| TC07001562.hg.1 | -5.07 | JUC07011658.hg.1 | HGF |
| TC07001562.hg.1 | -5.71 | JUC07011663.hg.1 | HGF |
| TC07001562.hg.1 | -6.07 | PSR07023478.hg.1 | HGF |
| TC07001562.hg.1 | -6.63 | PSR07023490.hg.1 | HGF |
| TC07001562.hg.1 | -6.74 | PSR07023496.hg.1 | HGF |
| TC07001562.hg.1 | -6.93 | JUC07011671.hg.1 | HGF |
| TC07001562.hg.1 | -8 | PSR07023483.hg.1 | HGF |
| TC07001562.hg.1 | -8.5 | PSR07023511.hg.1 | HGF |
| TC07001562.hg.1 | -9.08 | PSR07023503.hg.1 | HGF |
| TC07001562.hg.1 | -9.45 | PSR07023494.hg.1 | HGF |
| TC07001562.hg.1 | -10.27 | PSR07023491.hg.1 | HGF |
| TC07001562.hg.1 | -11.24 | PSR07023477.hg.1 | HGF |
| TC07001562.hg.1 | -11.92 | JUC07011667.hg.1 | HGF |
| TC07001562.hg.1 | -13.13 | PSR07023516.hg.1 | HGF |
| TC07001562.hg.1 | -13.52 | PSR07023504.hg.1 | HGF |
| TC07001562.hg.1 | -14.45 | PSR07023515.hg.1 | HGF |
| TC07001562.hg.1 | -16.29 | JUC07011670.hg.1 | HGF |
| TC07001562.hg.1 | -18.24 | PSR07023514.hg.1 | HGF |
| TC08000881.hg.1 | 2.34 | JUC08006025.hg.1 | ERICH1 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC08000881.hg.1 | -2.16 | PSR08011630.hg.1 | ERICH1 |
| TC08000881.hg.1 | -2.29 | JUC08006030.hg.1 | ERICH1 |
| TC08000881.hg.1 | -2.31 | JUC08006026.hg.1 | ERICH1 |
| TC08000881.hg.1 | -3.2 | JUC08006027.hg.1 | ERICH1 |
| TC08001713.hg.1 | 2.34 | JUC08011587.hg.1 | TOP1MT |
| TC08001713.hg.1 | 2.04 | PSR08022590.hg.1 | TOP1MT |
| TC08001713.hg.1 | 2.04 | JUC08011616.hg.1 | TOP1MT |
| TC08001713.hg.1 | 2.01 | JUC08011600.hg.1 | TOP1MT |
| TC11001172.hg.1 | 2.34 | PSR11014823.hg.1 | TIRAP |
| TC11001172.hg.1 | -2.05 | JUC11008017.hg.1 | TIRAP |
| TC11001172.hg.1 | -2.35 | JUC11008012.hg.1 | TIRAP |
| TC12000266.hg.1 | 2.34 | PSR12003230.hg.1 | PPFIBP1 |
| TC12000266.hg.1 | 2.11 | PSR12003284.hg.1 | PPFIBP1 |
| TC12000266.hg.1 | -2.03 | JUC12001622.hg.1 | PPFIBP1 |
| TC12000266.hg.1 | -2.05 | JUC12001629.hg.1 | PPFIBP1 |
| TC12000266.hg.1 | -2.07 | PSR12003265.hg.1 | PPFIBP1 |
| TC12000266.hg.1 | -2.21 | JUC12001614.hg.1 | PPFIBP1 |
| TC12000266.hg.1 | -2.8 | JUC12001608.hg.1 | PPFIBP1 |
| TC14000135.hg.1 | 2.34 | JUC14000502.hg.1 | LRP10 |
| TC14000135.hg.1 | 2.05 | PSR14001158.hg.1 | LRP10 |
| TC15000635.hg.1 | 2.34 | JUC15002683.hg.1 | PAQR5 |
| TC15000635.hg.1 | 2.11 | JUC15002682.hg.1 | PAQR5 |
| TC15000635.hg.1 | 2.1 | JUC15002693.hg.1 | PAQR5 |
| TC15000635.hg.1 | 2.02 | PSR15005375.hg.1 | PAQR5 |
| TC15000635.hg.1 | 2.01 | JUC15002690.hg.1 | PAQR5 |
| TC15000635.hg.1 | -4.45 | JUC15002689.hg.1 | PAQR5 |
| TC15000712.hg.1 | 2.34 | JUC15003250.hg.1 | HMG20A |
| TC15000712.hg.1 | -2.18 | PSR15006389.hg.1 | HMG20A |
| TC15001606.hg.1 | 2.34 | JUC15008416.hg.1 | TLE3 |
| TC15001606.hg.1 | 2.17 | JUC15008405.hg.1 | TLE3 |
| TC15001606.hg.1 | 2.13 | PSR15015494.hg.1 | TLE3 |
| TC15001606.hg.1 | -2.25 | JUC15008410.hg.1 | TLE3 |
| TC17000354.hg.1 | 2.34 | JUC17002495.hg.1 | SUZ12P1 |
| TC17000354.hg.1 | -2.02 | PSR17004424.hg.1 | SUZ12P1 |
| TC17000354.hg.1 | -2.24 | JUC17002501.hg.1 | SUZ12P1 |
| TC17000354.hg.1 | -2.31 | PSR17004425.hg.1 | SUZ12P1 |
| TC17002914.hg.1 | 2.34 | JUC17019184.hg.1 | LOC10050720 |
| TC17002914.hg.1 | 2.22 | PSR17003585.hg.1 | LOC10050720 |
| TC17002914.hg.1 | 2.2 | PSR17003587.hg.1 | LOC10050720 |
| TC17002914.hg.1 | 2.19 | PSR17003588.hg.1 | LOC10050720 |
| TC18000011.hg.1 | 2.34 | JUC18000076.hg.1 | SMCHD1 |
| TC18000011.hg.1 | -2.57 | JUC18000099.hg.1 | SMCHD1 |
| TC18000011.hg.1 | -2.58 | PSR18000113.hg.1 | SMCHD1 |
| TC19000657.hg.1 | 2.34 | JUC19005457.hg.1 | CCDC61 |
| TC19000657.hg.1 | -2.19 | PSR19009183.hg.1 | CCDC61 |
| TC19000657.hg.1 | -2.32 | JUC19005454.hg.1 | CCDC61 |
| TC20000816.hg.1 | 2.34 | PSR20011204.hg.1 | NDRG3 |
| TC20000816.hg.1 | 2.11 | JUC20005762.hg.1 | NDRG3 |
| TC6_ssto_hap7000 | 2.34 | PSR6_ssto_hap7000 | HLA-A |
| TC6_ssto_hap7000 | -2.37 | JUC6_ssto_hap7000 | HLA-A |
| TC6_ssto_hap7000 | -5.94 | JUC6_ssto_hap7000 | HLA-A |
| TC01002363.hg.1 | 2.33 | JUC01019678.hg.1 | C1orf201 |
| TC01002363.hg.1 | 2.16 | PSR01036525.hg.1 | C1orf201 |
| TC01002363.hg.1 | 2.14 | PSR01036517.hg.1 | C1orf201 |
| TC01002363.hg.1 | 2.03 | PSR01036483.hg.1 | C1orf201 |
| TC01002363.hg.1 | -2.11 | JUC01019667.hg.1 | C1orf201 |
| TC03001378.hg.1 | 2.33 | PSR03023884.hg.1 | PLXNB1 |
| TC03001378.hg.1 | 2.22 | JUC03011896.hg.1 | PLXNB1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC04000971.hg.1 | 2.33 | JUC04007067.hg.1 | MIR943, WHS |
| TC04000971.hg.1 | 2.13 | PSR04013312.hg.1 | MIR943, WHS |
| TC04001139.hg.1 | 2.33 | JUC04008315.hg.1 | APBB2 |
| TC04001139.hg.1 | 2.18 | JUC04008327.hg.1 | APBB2 |
| TC04001139.hg.1 | -2 | PSR04015665.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.08 | PSR04015681.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.09 | PSR04015723.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.15 | PSR04015731.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.34 | PSR04015679.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.45 | PSR04015687.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.48 | PSR04015717.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.86 | PSR04015718.hg.1 | APBB2 |
| TC04001139.hg.1 | -2.9 | PSR04015688.hg.1 | APBB2 |
| TC04001139.hg.1 | -3.28 | JUC04008317.hg.1 | APBB2 |
| TC05000168.hg.1 | 2.33 | JUC05001116.hg.1 | WDR70 |
| TC05000168.hg.1 | 2.2 | PSR05001970.hg.1 | WDR70 |
| TC05003430.hg.1 | 2.33 | PSR05025287.hg.1 | DNAJC18 |
| TC05003430.hg.1 | 2.14 | JUC05019687.hg.1 | DNAJC18 |
| TC05003430.hg.1 | 2.07 | JUC05019693.hg.1 | DNAJC18 |
| TC08000768.hg.1 | 2.33 | JUC08005252.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2 | PSR08010228.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.08 | PSR08010227.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.1 | PSR08010216.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.21 | PSR08010239.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.31 | PSR08010231.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.33 | PSR08010248.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.46 | JUC08005246.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.64 | JUC08005244.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.78 | PSR08010208.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -2.84 | PSR08010257.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -3.01 | PSR08010220.hg.1 | PHF20L1 |
| TC08000768.hg.1 | -3.56 | JUC08005262.hg.1 | PHF20L1 |
| TC08001147.hg.1 | 2.33 | JUC08007509.hg.1 | FGFR1 |
| TC08001147.hg.1 | 2.23 | JUC08007541.hg.1 | FGFR1 |
| TC08001147.hg.1 | 2.1 | PSR08014802.hg.1 | FGFR1 |
| TC08001147.hg.1 | -2.18 | JUC08007534.hg.1 | FGFR1 |
| TC08001147.hg.1 | -3.42 | JUC08007515.hg.1 | FGFR1 |
| TC09001773.hg.1 | 2.33 | JUC09012317.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.02 | PSR09023032.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.02 | JUC09012304.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.1 | PSR09023030.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.14 | PSR09023027.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.28 | PSR09023013.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.32 | PSR09023008.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -2.74 | JUC09012312.hg.1 | PNPLA7 |
| TC09001773.hg.1 | -3.45 | PSR09023028.hg.1 | PNPLA7 |
| TC0X000901.hg.1 | 2.33 | PSR0X012072.hg.1 | GPR64 |
| TC0X000901.hg.1 | 2.15 | PSR0X012060.hg.1 | GPR64 |
| TC0X000901.hg.1 | -2.01 | JUC0X005983.hg.1 | GPR64 |
| TC0X000901.hg.1 | -2.26 | JUC0X005952.hg.1 | GPR64 |
| TC0X000901.hg.1 | -2.5 | JUC0X005950.hg.1 | GPR64 |
| TC0X000901.hg.1 | -2.59 | PSR0X012077.hg.1 | GPR64 |
| TC0X000901.hg.1 | -2.62 | PSR0X012093.hg.1 | GPR64 |
| TC0X000901.hg.1 | -2.79 | PSR0X012084.hg.1 | GPR64 |
| TC0X000901.hg.1 | -3.73 | JUC0X005946.hg.1 | GPR64 |
| TC0X000901.hg.1 | -4.42 | JUC0X005949.hg.1 | GPR64 |
| TC12000656.hg.1 | 2.33 | JUC12004567.hg.1 | NAV3 |
| TC12000656.hg.1 | 2.01 | JUC12004589.hg.1 | NAV3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC12000656.hg.1 | -2.01 | JUC12004591.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.13 | JUC12004592.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.21 | PSR12008598.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.26 | PSR12008622.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.3 | JUC12004594.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.31 | PSR12008608.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.46 | JUC12004550.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.47 | PSR12008590.hg.1 | NAV3 |
| TC12000656.hg.1 | -2.69 | JUC12004569.hg.1 | NAV3 |
| TC12000656.hg.1 | -3.02 | PSR12008589.hg.1 | NAV3 |
| TC12000656.hg.1 | -6.01 | JUC12004575.hg.1 | NAV3 |
| TC12000989.hg.1 | 2.33 | PSR12013101.hg.1 | DDX55 |
| TC12000989.hg.1 | -3.26 | JUC12007146.hg.1 | DDX55 |
| TC13000799.hg.1 | 2.33 | JUC13005256.hg.1 | ABCC4 |
| TC13000799.hg.1 | 2.11 | JUC13005231.hg.1 | ABCC4 |
| TC13000799.hg.1 | -2.4 | PSR13008938.hg.1 | ABCC4 |
| TC13000799.hg.1 | -2.4 | JUC13005262.hg.1 | ABCC4 |
| TC13000799.hg.1 | -2.4 | JUC13005269.hg.1 | ABCC4 |
| TC13000799.hg.1 | -2.47 | PSR13008936.hg.1 | ABCC4 |
| TC13000799.hg.1 | -2.73 | PSR13008973.hg.1 | ABCC4 |
| TC14002332.hg.1 | 2.33 | PSR14015849.hg.1 | EFCAB11 |
| TC14002332.hg.1 | -2.04 | JUC14012197.hg.1 | EFCAB11 |
| TC14002332.hg.1 | -2.2 | PSR14015840.hg.1 | EFCAB11 |
| TC14002332.hg.1 | -2.43 | JUC14012207.hg.1 | EFCAB11 |
| TC14002332.hg.1 | -2.68 | JUC14012206.hg.1 | EFCAB11 |
| TC14002332.hg.1 | -4.82 | PSR14015836.hg.1 | EFCAB11 |
| TC16001125.hg.1 | 2.33 | JUC16008782.hg.1 | CRNDE |
| TC16001125.hg.1 | -2.28 | PSR16015655.hg.1 | CRNDE |
| TC16001267.hg.1 | 2.33 | PSR16017657.hg.1 | GLG1 |
| TC16001267.hg.1 | 2.31 | JUC16010033.hg.1 | GLG1 |
| TC16001267.hg.1 | -2.58 | JUC16010043.hg.1 | GLG1 |
| TC16001267.hg.1 | -3.6 | JUC16010017.hg.1 | GLG1 |
| TC17001093.hg.1 | 2.33 | PSR17014691.hg.1 | SAT2 |
| TC17001093.hg.1 | 2.12 | JUC17008383.hg.1 | SAT2 |
| TC19000029.hg.1 | 2.33 | PSR19000319.hg.1 | HMHA1 |
| TC19000029.hg.1 | -2.09 | JUC19000213.hg.1 | HMHA1 |
| TC19000029.hg.1 | -2.64 | JUC19000214.hg.1 | HMHA1 |
| TC01000358.hg.1 | 2.32 | JUC01002897.hg.1 | WDTC1 |
| TC01000358.hg.1 | 2.13 | PSR01005558.hg.1 | WDTC1 |
| TC02002504.hg.1 | 2.32 | PSR02039661.hg.1 | STK39 |
| TC02002504.hg.1 | -2.54 | JUC02020843.hg.1 | STK39 |
| TC03001536.hg.1 | 2.32 | PSR03028030.hg.1 | TMF1 |
| TC03001536.hg.1 | 2.24 | JUC03013767.hg.1 | TMF1 |
| TC03001536.hg.1 | 2.02 | JUC03013769.hg.1 | TMF1 |
| TC03001536.hg.1 | -2.09 | JUC03013773.hg.1 | TMF1 |
| TC08000190.hg.1 | 2.32 | JUC08001281.hg.1 | ADAM28 |
| TC08000190.hg.1 | -2.04 | JUC08001284.hg.1 | ADAM28 |
| TC08000190.hg.1 | -2.12 | PSR08002512.hg.1 | ADAM28 |
| TC08000190.hg.1 | -2.31 | JUC08001273.hg.1 | ADAM28 |
| TC09001326.hg.1 | 2.32 | JUC09008880.hg.1 | ROR2 |
| TC09001326.hg.1 | 2.07 | PSR09016511.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.05 | PSR09016521.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.31 | PSR09016526.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.35 | JUC09008875.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.36 | PSR09016509.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.39 | PSR09016525.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.72 | PSR09016497.hg.1 | ROR2 |
| TC09001326.hg.1 | -2.88 | JUC09008878.hg.1 | ROR2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC09001326.hg.1 | -2.9 | JUC09008871.hg.1 | ROR2 |
| TC09001326.hg.1 | -3.51 | PSR09016495.hg.1 | ROR2 |
| TC09001326.hg.1 | -3.66 | PSR09016504.hg.1 | ROR2 |
| TC09001326.hg.1 | -3.75 | JUC09008867.hg.1 | ROR2 |
| TC09001326.hg.1 | -3.94 | JUC09008877.hg.1 | ROR2 |
| TC09001326.hg.1 | -4.01 | PSR09016522.hg.1 | ROR2 |
| TC09001326.hg.1 | -4.11 | PSR09016498.hg.1 | ROR2 |
| TC09001326.hg.1 | -4.25 | PSR09016523.hg.1 | ROR2 |
| TC09001326.hg.1 | -4.52 | PSR09016496.hg.1 | ROR2 |
| TC0X001244.hg.1 | 2.32 | JUC0X008586.hg.1 | RAB9B |
| TC0X001244.hg.1 | 2.11 | PSR0X016864.hg.1 | RAB9B |
| TC0Y000072.hg.1 | 2.32 | PSR0Y000828.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -2.01 | PSR0Y000825.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -2.81 | PSR0Y000832.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -3.1 | PSR0Y000830.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -3.18 | PSR0Y000826.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -3.86 | PSR0Y000834.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -5.26 | JUC0Y000364.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -5.64 | PSR0Y000831.hg.1 | EIF1AY |
| TC0Y000072.hg.1 | -9.15 | JUC0Y000362.hg.1 | EIF1AY |
| TC10000309.hg.1 | 2.32 | JUC10002016.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | 2.13 | JUC10002018.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -2.03 | JUC10002011.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -2.1 | JUC10002002.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -2.18 | JUC10002015.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -2.81 | JUC10002010.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -2.92 | PSR10003481.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -4.1 | PSR10003472.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -4.17 | PSR10003502.hg.1 | ANXA8L2, LC |
| TC10000309.hg.1 | -6.16 | JUC10002020.hg.1 | ANXA8L2, LC |
| TC10002963.hg.1 | 2.32 | JUC10017529.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | 2.13 | JUC10017518.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | -2.04 | JUC10017524.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | -2.1 | JUC10017519.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | -2.14 | PSR10015467.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | -2.18 | JUC10017528.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | -2.69 | PSR10015469.hg.1 | ANXA8L1, AN |
| TC10002963.hg.1 | -5.85 | JUC10017517.hg.1 | ANXA8L1, AN |
| TC11000052.hg.1 | 2.32 | JUC11000483.hg.1 | LSP1 |
| TC11000052.hg.1 | 2.3 | PSR11000991.hg.1 | LSP1 |
| TC11000052.hg.1 | 2.15 | JUC11000493.hg.1 | LSP1 |
| TC11000876.hg.1 | 2.32 | PSR11011093.hg.1 | PRSS23 |
| TC11000876.hg.1 | -2 | JUC11005813.hg.1 | PRSS23 |
| TC11000876.hg.1 | -8.35 | JUC11005816.hg.1 | PRSS23 |
| TC12001605.hg.1 | 2.32 | JUC12011863.hg.1 | TIMELESS |
| TC12001605.hg.1 | -2.04 | JUC12011869.hg.1 | TIMELESS |
| TC12001605.hg.1 | -2.2 | PSR12021422.hg.1 | TIMELESS |
| TC12001605.hg.1 | -2.25 | JUC12011858.hg.1 | TIMELESS |
| TC12001605.hg.1 | -2.8 | JUC12011872.hg.1 | TIMELESS |
| TC12001605.hg.1 | -3.32 | JUC12011859.hg.1 | TIMELESS |
| TC15001594.hg.1 | 2.32 | JUC15008386.hg.1 | ANP32A |
| TC15001594.hg.1 | -2.75 | JUC15008383.hg.1 | ANP32A |
| TC15001594.hg.1 | -2.85 | PSR15015417.hg.1 | ANP32A |
| TC17001613.hg.1 | 2.32 | JUC17012181.hg.1 | ARL17A, ARL |
| TC17001613.hg.1 | 2.25 | JUC17012182.hg.1 | ARL17A, ARL |
| TC17001613.hg.1 | -2.03 | PSR17021668.hg.1 | ARL17A, ARL |
| TC19001801.hg.1 | 2.32 | PSR19024434.hg.1 | |
| TC19001801.hg.1 | 2.01 | JUC19013892.hg.1 | |

| | | | |
|-----------------|-------|------------------|-------------|
| TC2100040.hg.1 | 2.32 | JUC21000120.hg.1 | LINC00478 |
| TC2100040.hg.1 | -2.28 | JUC21000122.hg.1 | LINC00478 |
| TC2100040.hg.1 | -2.43 | PSR21000175.hg.1 | LINC00478 |
| TC2100040.hg.1 | -2.82 | JUC21000112.hg.1 | LINC00478 |
| TC2100040.hg.1 | -4.72 | JUC21000116.hg.1 | LINC00478 |
| TC01000566.hg.1 | 2.32 | JUC01004892.hg.1 | PLK3 |
| TC01000566.hg.1 | -2 | PSR01009492.hg.1 | PLK3 |
| TC0X001369.hg.1 | 2.32 | JUC0X009420.hg.1 | RAP2C |
| TC0X001369.hg.1 | 2.2 | JUC0X009412.hg.1 | RAP2C |
| TC0X001369.hg.1 | 2 | PSR0X018395.hg.1 | RAP2C |
| TC02002612.hg.1 | 2.31 | JUC02021768.hg.1 | COL5A2 |
| TC02002612.hg.1 | 2.23 | JUC02021796.hg.1 | COL5A2 |
| TC02002612.hg.1 | 2.02 | JUC02021812.hg.1 | COL5A2 |
| TC02002612.hg.1 | -2.01 | PSR02041826.hg.1 | COL5A2 |
| TC02002612.hg.1 | -3.02 | JUC02021776.hg.1 | COL5A2 |
| TC02002625.hg.1 | 2.31 | JUC02021966.hg.1 | STAT4 |
| TC02002625.hg.1 | 2.16 | JUC02021945.hg.1 | STAT4 |
| TC02002625.hg.1 | -2.13 | PSR02042111.hg.1 | STAT4 |
| TC02002625.hg.1 | -2.17 | JUC02021963.hg.1 | STAT4 |
| TC02002625.hg.1 | -2.9 | JUC02021957.hg.1 | STAT4 |
| TC02002625.hg.1 | -5.67 | JUC02021964.hg.1 | STAT4 |
| TC03001418.hg.1 | 2.31 | PSR03025321.hg.1 | UBA7 |
| TC03001418.hg.1 | 2.23 | JUC03012480.hg.1 | UBA7 |
| TC03001418.hg.1 | 2.2 | JUC03012462.hg.1 | UBA7 |
| TC03001418.hg.1 | 2.11 | PSR03025342.hg.1 | UBA7 |
| TC03001418.hg.1 | 2.06 | PSR03025320.hg.1 | UBA7 |
| TC03001418.hg.1 | 2 | PSR03025331.hg.1 | UBA7 |
| TC04000808.hg.1 | 2.31 | JUC04005998.hg.1 | FNIP2 |
| TC04000808.hg.1 | -2 | PSR04011186.hg.1 | FNIP2 |
| TC04000808.hg.1 | -2.02 | PSR04011184.hg.1 | FNIP2 |
| TC04000808.hg.1 | -2.07 | PSR04011196.hg.1 | FNIP2 |
| TC04000808.hg.1 | -2.66 | PSR04011185.hg.1 | FNIP2 |
| TC04000808.hg.1 | -3.66 | JUC04005987.hg.1 | FNIP2 |
| TC04001090.hg.1 | 2.31 | JUC04008005.hg.1 | SEPSECS |
| TC04001090.hg.1 | 2.05 | PSR04015017.hg.1 | SEPSECS |
| TC04001090.hg.1 | -2.01 | PSR04015022.hg.1 | SEPSECS |
| TC04001090.hg.1 | -2.85 | JUC04007999.hg.1 | SEPSECS |
| TC06000136.hg.1 | 2.31 | JUC06000678.hg.1 | LINC00340 |
| TC06000136.hg.1 | -2.17 | PSR06001377.hg.1 | LINC00340 |
| TC06000136.hg.1 | -2.3 | JUC06000662.hg.1 | LINC00340 |
| TC06000136.hg.1 | -2.52 | PSR06001381.hg.1 | LINC00340 |
| TC06000136.hg.1 | -3.05 | JUC06000675.hg.1 | LINC00340 |
| TC06000136.hg.1 | -4.17 | JUC06000679.hg.1 | LINC00340 |
| TC06000136.hg.1 | -4.38 | JUC06000658.hg.1 | LINC00340 |
| TC06000149.hg.1 | 2.31 | JUC06000738.hg.1 | GMNN |
| TC06000149.hg.1 | 2.19 | PSR06001503.hg.1 | GMNN |
| TC06000149.hg.1 | -2.37 | PSR06001510.hg.1 | GMNN |
| TC06001124.hg.1 | 2.31 | PSR06013346.hg.1 | ZDHHC14 |
| TC06001124.hg.1 | 2.3 | JUC06006553.hg.1 | ZDHHC14 |
| TC06001124.hg.1 | -2.11 | PSR06013364.hg.1 | ZDHHC14 |
| TC06001124.hg.1 | -2.21 | PSR06013359.hg.1 | ZDHHC14 |
| TC06001124.hg.1 | -2.25 | JUC06006549.hg.1 | ZDHHC14 |
| TC06001124.hg.1 | -2.68 | PSR06013356.hg.1 | ZDHHC14 |
| TC06001124.hg.1 | -2.82 | JUC06006555.hg.1 | ZDHHC14 |
| TC06004123.hg.1 | 2.31 | JUC06021721.hg.1 | HLA-DRB1, L |
| TC06004123.hg.1 | -2.05 | JUC06021726.hg.1 | HLA-DRB1, L |
| TC06004123.hg.1 | -2.24 | JUC06021723.hg.1 | HLA-DRB1, L |
| TC06004123.hg.1 | -2.4 | JUC06021722.hg.1 | HLA-DRB1, L |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06004123.hg.1 | -2.57 | JUC06021716.hg.1 | HLA-DRB1, L |
| TC06004123.hg.1 | -3.67 | JUC06021725.hg.1 | HLA-DRB1, L |
| TC06004123.hg.1 | -4.03 | PSR06018671.hg.1 | HLA-DRB1, L |
| TC07003323.hg.1 | 2.31 | JUC07020873.hg.1 | EPDR1 |
| TC07003323.hg.1 | -2.71 | PSR07003738.hg.1 | EPDR1 |
| TC07003323.hg.1 | -3.04 | JUC07020872.hg.1 | EPDR1 |
| TC08001638.hg.1 | 2.31 | PSR08021288.hg.1 | FAM49B |
| TC08001638.hg.1 | -2.01 | JUC08010829.hg.1 | FAM49B |
| TC08001638.hg.1 | -2.02 | PSR08021255.hg.1 | FAM49B |
| TC0X001155.hg.1 | 2.31 | PSR0X015614.hg.1 | XIST |
| TC0X001155.hg.1 | 2.15 | JUC0X007890.hg.1 | XIST |
| TC10001230.hg.1 | 2.31 | PSR10015359.hg.1 | PTPN20B, PT |
| TC10001230.hg.1 | 2.11 | JUC10008903.hg.1 | PTPN20B, PT |
| TC10001230.hg.1 | -2.31 | JUC10008885.hg.1 | PTPN20B, PT |
| TC13000103.hg.1 | 2.31 | PSR13000974.hg.1 | C13orf33 |
| TC13000103.hg.1 | 2.23 | PSR13000982.hg.1 | C13orf33 |
| TC13000103.hg.1 | 2.21 | PSR13000975.hg.1 | C13orf33 |
| TC13000103.hg.1 | -2.16 | JUC13000568.hg.1 | C13orf33 |
| TC13000103.hg.1 | -2.36 | PSR13000978.hg.1 | C13orf33 |
| TC13000103.hg.1 | -3.75 | JUC13000567.hg.1 | C13orf33 |
| TC14001443.hg.1 | 2.31 | PSR14016140.hg.1 | FBLN5 |
| TC14001443.hg.1 | -2.19 | PSR14016129.hg.1 | FBLN5 |
| TC14001443.hg.1 | -2.35 | JUC14008285.hg.1 | FBLN5 |
| TC14001443.hg.1 | -4.47 | PSR14016137.hg.1 | FBLN5 |
| TC14001443.hg.1 | -5.76 | JUC14008288.hg.1 | FBLN5 |
| TC15000405.hg.1 | 2.31 | PSR15003781.hg.1 | GLDN |
| TC15000405.hg.1 | -2.23 | JUC15001783.hg.1 | GLDN |
| TC15000405.hg.1 | -2.24 | JUC15001781.hg.1 | GLDN |
| TC15000405.hg.1 | -2.4 | PSR15003768.hg.1 | GLDN |
| TC15000405.hg.1 | -2.52 | PSR15003763.hg.1 | GLDN |
| TC15000405.hg.1 | -2.76 | PSR15003761.hg.1 | GLDN |
| TC15000405.hg.1 | -2.77 | PSR15003762.hg.1 | GLDN |
| TC15000405.hg.1 | -4.37 | PSR15003773.hg.1 | GLDN |
| TC15000872.hg.1 | 2.31 | PSR15008300.hg.1 | MAN2A2 |
| TC15000872.hg.1 | 2.11 | JUC15004423.hg.1 | MAN2A2 |
| TC16000647.hg.1 | 2.31 | PSR16009131.hg.1 | CDH13 |
| TC16000647.hg.1 | 2.25 | JUC16005086.hg.1 | CDH13 |
| TC16000647.hg.1 | -2.07 | JUC16005089.hg.1 | CDH13 |
| TC16000647.hg.1 | -2.19 | JUC16005076.hg.1 | CDH13 |
| TC16000647.hg.1 | -3.89 | PSR16009134.hg.1 | CDH13 |
| TC17000369.hg.1 | 2.31 | JUC17002653.hg.1 | SUZ12 |
| TC17000369.hg.1 | -2.04 | PSR17004644.hg.1 | SUZ12 |
| TC17000369.hg.1 | -2.11 | JUC17002650.hg.1 | SUZ12 |
| TC17000369.hg.1 | -3.47 | JUC17002655.hg.1 | SUZ12 |
| TC18000097.hg.1 | 2.31 | JUC18000721.hg.1 | RBBP8, MIR4 |
| TC18000097.hg.1 | -2.21 | PSR18001051.hg.1 | RBBP8, MIR4 |
| TC18000097.hg.1 | -2.71 | PSR18001056.hg.1 | RBBP8, MIR4 |
| TC18000097.hg.1 | -3.18 | PSR18001053.hg.1 | RBBP8, MIR4 |
| TC18000097.hg.1 | -9.11 | PSR18001059.hg.1 | RBBP8, MIR4 |
| TC18000309.hg.1 | 2.31 | JUC18002447.hg.1 | LAMA1 |
| TC18000309.hg.1 | 2.06 | JUC18002489.hg.1 | LAMA1 |
| TC18000309.hg.1 | -2.02 | JUC18002473.hg.1 | LAMA1 |
| TC18000309.hg.1 | -2.07 | JUC18002458.hg.1 | LAMA1 |
| TC18000309.hg.1 | -2.13 | JUC18002461.hg.1 | LAMA1 |
| TC18000309.hg.1 | -2.22 | PSR18003647.hg.1 | LAMA1 |
| TC18000309.hg.1 | -2.95 | JUC18002494.hg.1 | LAMA1 |
| TC19001751.hg.1 | 2.31 | JUC19013541.hg.1 | SYT3 |
| TC19001751.hg.1 | 2.28 | PSR19023824.hg.1 | SYT3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC19001751.hg.1 | 2.28 | JUC19013537.hg.1 | SYT3 |
| TC19001751.hg.1 | -2.51 | JUC19013543.hg.1 | SYT3 |
| TC20000171.hg.1 | 2.31 | JUC20001152.hg.1 | |
| TC20000171.hg.1 | 2.23 | PSR20002144.hg.1 | |
| TC20000171.hg.1 | 2.21 | JUC20001148.hg.1 | |
| TC22001426.hg.1 | 2.31 | PSR22005783.hg.1 | APOBEC3C |
| TC22001426.hg.1 | -2.85 | JUC22008599.hg.1 | APOBEC3C |
| TC10001507.hg.1 | 2.31 | JUC10011090.hg.1 | PANK1 |
| TC10001507.hg.1 | 2 | PSR10019042.hg.1 | PANK1 |
| TC10001507.hg.1 | -3.13 | JUC10011086.hg.1 | PANK1 |
| TC01004004.hg.1 | 2.3 | PSR01060632.hg.1 | ERO1LB |
| TC01004004.hg.1 | 2.24 | PSR01060622.hg.1 | ERO1LB |
| TC01004004.hg.1 | 2.01 | PSR01060633.hg.1 | ERO1LB |
| TC01004004.hg.1 | -2.86 | JUC01031720.hg.1 | ERO1LB |
| TC02001017.hg.1 | 2.3 | PSR02015023.hg.1 | GORASP2 |
| TC02001017.hg.1 | -2.08 | JUC02008024.hg.1 | GORASP2 |
| TC02002481.hg.1 | 2.3 | JUC02020512.hg.1 | IFIH1 |
| TC02002481.hg.1 | -2.19 | PSR02039149.hg.1 | IFIH1 |
| TC02002481.hg.1 | -2.76 | JUC02020505.hg.1 | IFIH1 |
| TC03000068.hg.1 | 2.3 | PSR03001515.hg.1 | SYN2 |
| TC03000068.hg.1 | -2.17 | JUC03000796.hg.1 | SYN2 |
| TC03002173.hg.1 | 2.3 | JUC03018991.hg.1 | MF12 |
| TC03002173.hg.1 | 2.07 | PSR03038387.hg.1 | MF12 |
| TC05001223.hg.1 | 2.3 | JUC05008848.hg.1 | DROSHA |
| TC05001223.hg.1 | 2.12 | JUC05008859.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.01 | JUC05008834.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.02 | PSR05017266.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.03 | PSR05017249.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.07 | PSR05017251.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.07 | JUC05008850.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.09 | JUC05008837.hg.1 | DROSHA |
| TC05001223.hg.1 | -2.36 | JUC05008839.hg.1 | DROSHA |
| TC05001817.hg.1 | 2.3 | JUC05012664.hg.1 | KLHL3 |
| TC05001817.hg.1 | 2.08 | JUC05012667.hg.1 | KLHL3 |
| TC05001817.hg.1 | -2.05 | JUC05012656.hg.1 | KLHL3 |
| TC05001817.hg.1 | -2.13 | JUC05012666.hg.1 | KLHL3 |
| TC05001817.hg.1 | -2.14 | PSR05024689.hg.1 | KLHL3 |
| TC05001817.hg.1 | -2.43 | JUC05012658.hg.1 | KLHL3 |
| TC05001817.hg.1 | -4 | JUC05012663.hg.1 | KLHL3 |
| TC06000233.hg.1 | 2.3 | JUC06000987.hg.1 | PRSS16 |
| TC06000233.hg.1 | 2.01 | PSR06002112.hg.1 | PRSS16 |
| TC06000233.hg.1 | -2.56 | JUC06000999.hg.1 | PRSS16 |
| TC06001232.hg.1 | 2.3 | JUC06007286.hg.1 | PXDC1 |
| TC06001232.hg.1 | 2.2 | PSR06014642.hg.1 | PXDC1 |
| TC06001232.hg.1 | -3.87 | JUC06007291.hg.1 | PXDC1 |
| TC06001743.hg.1 | 2.3 | PSR06020831.hg.1 | MRPL2 |
| TC06001743.hg.1 | 2.27 | PSR06020847.hg.1 | MRPL2 |
| TC06001743.hg.1 | 2.25 | JUC06009901.hg.1 | MRPL2 |
| TC07000454.hg.1 | 2.3 | PSR07006164.hg.1 | CLIP2 |
| TC07000454.hg.1 | 2.28 | PSR07006178.hg.1 | CLIP2 |
| TC07000454.hg.1 | 2.24 | JUC07002988.hg.1 | CLIP2 |
| TC07000454.hg.1 | 2.14 | PSR07006185.hg.1 | CLIP2 |
| TC0X000013.hg.1 | 2.3 | JUC0X000093.hg.1 | CD99P1 |
| TC0X000013.hg.1 | -2.59 | PSR0X000193.hg.1 | CD99P1 |
| TC0X000795.hg.1 | 2.3 | JUC0X005328.hg.1 | PPP2R3B |
| TC0X000795.hg.1 | 2.27 | PSR0X010861.hg.1 | PPP2R3B |
| TC0X000795.hg.1 | -2.14 | JUC0X005330.hg.1 | PPP2R3B |
| TC10001253.hg.1 | 2.3 | PSR10015611.hg.1 | PTPN20B, PT |

| | | | |
|-----------------|-------|------------------|-------------|
| TC10001253.hg.1 | 2.11 | JUC10009049.hg.1 | PTPN20B, P1 |
| TC10001253.hg.1 | -2.31 | JUC10009031.hg.1 | PTPN20B, P1 |
| TC10001319.hg.1 | 2.3 | JUC10009721.hg.1 | ANK3 |
| TC10001319.hg.1 | 2.01 | PSR10016655.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.04 | PSR10016558.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.12 | JUC10009703.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.14 | PSR10016619.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.15 | PSR10016553.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.28 | PSR10016650.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.29 | JUC10009722.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.3 | PSR10016541.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.3 | PSR10016652.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.33 | PSR10016616.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.42 | PSR10016659.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.46 | PSR10016547.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.51 | JUC10009715.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.52 | PSR10016566.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.58 | PSR10016581.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.7 | JUC10009691.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.76 | PSR10016586.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.77 | JUC10009672.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.8 | PSR10016613.hg.1 | ANK3 |
| TC10001319.hg.1 | -2.86 | JUC10009681.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.01 | JUC10009718.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.1 | JUC10009645.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.13 | JUC10009720.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.31 | PSR10016660.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.36 | JUC10009697.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.62 | PSR10016612.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.87 | JUC10009686.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.89 | PSR10016617.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.91 | JUC10009673.hg.1 | ANK3 |
| TC10001319.hg.1 | -3.94 | JUC10009659.hg.1 | ANK3 |
| TC10001319.hg.1 | -4.37 | JUC10009706.hg.1 | ANK3 |
| TC10001319.hg.1 | -4.65 | JUC10009682.hg.1 | ANK3 |
| TC10001319.hg.1 | -4.88 | JUC10009683.hg.1 | ANK3 |
| TC11001399.hg.1 | 2.3 | PSR11017681.hg.1 | TMEM41B |
| TC11001399.hg.1 | -3.42 | JUC11009446.hg.1 | TMEM41B |
| TC14001003.hg.1 | 2.3 | JUC14005721.hg.1 | |
| TC14001003.hg.1 | 2.13 | PSR14011449.hg.1 | |
| TC14001211.hg.1 | 2.3 | JUC14006958.hg.1 | ESR2 |
| TC14001211.hg.1 | 2.18 | JUC14006961.hg.1 | ESR2 |
| TC14001211.hg.1 | -2 | PSR14013824.hg.1 | ESR2 |
| TC14001211.hg.1 | -2.98 | PSR14013834.hg.1 | ESR2 |
| TC15001818.hg.1 | 2.3 | JUC15009610.hg.1 | DET1 |
| TC15001818.hg.1 | 2.28 | PSR15017593.hg.1 | DET1 |
| TC15001818.hg.1 | 2.09 | PSR15017609.hg.1 | DET1 |
| TC17001612.hg.1 | 2.3 | JUC17012173.hg.1 | ARL17B, ARL |
| TC17001612.hg.1 | 2.23 | JUC17012175.hg.1 | ARL17B, ARL |
| TC17001612.hg.1 | 2.02 | PSR17021647.hg.1 | ARL17B, ARL |
| TC17002873.hg.1 | 2.3 | JUC17018650.hg.1 | TMEM199, M |
| TC17002873.hg.1 | 2.02 | PSR17003866.hg.1 | TMEM199, M |
| TC17002873.hg.1 | -2.44 | JUC17018647.hg.1 | TMEM199, M |
| TC19000350.hg.1 | 2.3 | JUC19002729.hg.1 | ARRDC2 |
| TC19000350.hg.1 | 2.09 | JUC19002726.hg.1 | ARRDC2 |
| TC19000350.hg.1 | -2.13 | PSR19004616.hg.1 | ARRDC2 |
| TC19001284.hg.1 | 2.3 | PSR19018263.hg.1 | KIAA1683 |
| TC19001284.hg.1 | 2.25 | PSR19018279.hg.1 | KIAA1683 |

| | | | |
|------------------|-------|-------------------|----------|
| TC19001284.hg.1 | 2.18 | JUC19010674.hg.1 | KIAA1683 |
| TC19001284.hg.1 | 2.17 | PSR19018283.hg.1 | KIAA1683 |
| TC19001284.hg.1 | 2.15 | JUC19010668.hg.1 | KIAA1683 |
| TC19001284.hg.1 | 2.15 | JUC19010672.hg.1 | KIAA1683 |
| TC19001284.hg.1 | -2.1 | PSR19018268.hg.1 | KIAA1683 |
| TC19001284.hg.1 | -2.6 | PSR19018280.hg.1 | KIAA1683 |
| TC20000533.hg.1 | 2.3 | JUC20003989.hg.1 | TCEA2 |
| TC20000533.hg.1 | 2.02 | PSR20007622.hg.1 | TCEA2 |
| TC6_cox_hap2000 | 2.3 | JUC6_cox_hap20012 | EHMT2 |
| TC6_cox_hap2000 | -2.07 | PSR6_cox_hap2003 | EHMT2 |
| TC6_dbb_hap3000 | 2.3 | JUC6_dbb_hap3001 | EHMT2 |
| TC6_dbb_hap3000 | -2.07 | PSR6_dbb_hap3003 | EHMT2 |
| TC6_qbl_hap6000 | 2.3 | JUC6_qbl_hap60010 | GPANK1 |
| TC6_qbl_hap6000 | 2.03 | PSR6_qbl_hap60029 | GPANK1 |
| TC6_qbl_hap6000 | 2.02 | PSR6_qbl_hap60029 | GPANK1 |
| TC6_ssto_hap7000 | 2.3 | JUC6_ssto_hap7001 | GPANK1 |
| TC6_ssto_hap7000 | 2.03 | PSR6_ssto_hap7002 | GPANK1 |
| TC6_ssto_hap7000 | 2.02 | PSR6_ssto_hap7002 | GPANK1 |
| TC01000426.hg.1 | 2.29 | PSR01006544.hg.1 | LCK |
| TC01000426.hg.1 | 2.05 | JUC01003412.hg.1 | LCK |
| TC01001624.hg.1 | 2.29 | JUC01013424.hg.1 | RGS2 |
| TC01001624.hg.1 | -2.44 | PSR01025081.hg.1 | RGS2 |
| TC01001657.hg.1 | 2.29 | JUC01013689.hg.1 | IGFN1 |
| TC01001657.hg.1 | 2.27 | JUC01013686.hg.1 | IGFN1 |
| TC01001657.hg.1 | 2.01 | PSR01025638.hg.1 | IGFN1 |
| TC01001657.hg.1 | -3 | PSR01025615.hg.1 | IGFN1 |
| TC01001657.hg.1 | -3.01 | JUC01013680.hg.1 | IGFN1 |
| TC01002578.hg.1 | 2.29 | PSR01040081.hg.1 | SLC2A1 |
| TC01002578.hg.1 | 2.28 | JUC01021513.hg.1 | SLC2A1 |
| TC01002578.hg.1 | 2.19 | PSR01040069.hg.1 | SLC2A1 |
| TC01002578.hg.1 | 2.09 | PSR01040091.hg.1 | SLC2A1 |
| TC01002578.hg.1 | 2.06 | PSR01040089.hg.1 | SLC2A1 |
| TC01004071.hg.1 | 2.29 | JUC01032127.hg.1 | ZNF496 |
| TC01004071.hg.1 | -2.16 | PSR01061417.hg.1 | ZNF496 |
| TC01004071.hg.1 | -2.37 | PSR01061406.hg.1 | ZNF496 |
| TC03000692.hg.1 | 2.29 | JUC03006220.hg.1 | IFT122 |
| TC03000692.hg.1 | 2.1 | PSR03012379.hg.1 | IFT122 |
| TC03000692.hg.1 | -2.16 | JUC03006207.hg.1 | IFT122 |
| TC03000692.hg.1 | -2.17 | JUC03006169.hg.1 | IFT122 |
| TC03000692.hg.1 | -2.21 | JUC03006172.hg.1 | IFT122 |
| TC03000692.hg.1 | -2.96 | JUC03006191.hg.1 | IFT122 |
| TC03000873.hg.1 | 2.29 | PSR03015564.hg.1 | SMC4 |
| TC03000873.hg.1 | 2.13 | JUC03007879.hg.1 | SMC4 |
| TC03000873.hg.1 | -2.51 | JUC03007892.hg.1 | SMC4 |
| TC03000873.hg.1 | -2.85 | JUC03007872.hg.1 | SMC4 |
| TC03000930.hg.1 | 2.29 | JUC03008219.hg.1 | ECT2 |
| TC03000930.hg.1 | 2.1 | JUC03008203.hg.1 | ECT2 |
| TC03000930.hg.1 | 2.09 | JUC03008229.hg.1 | ECT2 |
| TC03000930.hg.1 | 2 | PSR03016158.hg.1 | ECT2 |
| TC03000930.hg.1 | -2.19 | JUC03008206.hg.1 | ECT2 |
| TC03000930.hg.1 | -2.79 | PSR03016192.hg.1 | ECT2 |
| TC03000930.hg.1 | -3.37 | JUC03008232.hg.1 | ECT2 |
| TC04001600.hg.1 | 2.29 | JUC04011751.hg.1 | INPP4B |
| TC04001600.hg.1 | 2.16 | PSR04022292.hg.1 | INPP4B |
| TC04001600.hg.1 | 2.14 | JUC04011760.hg.1 | INPP4B |
| TC04001600.hg.1 | 2.07 | PSR04022301.hg.1 | INPP4B |
| TC04001600.hg.1 | -2.07 | PSR04022319.hg.1 | INPP4B |
| TC04001600.hg.1 | -2.11 | JUC04011759.hg.1 | INPP4B |

| | | | |
|-----------------|--------|------------------|---------|
| TC04001600.hg.1 | -2.38 | JUC04011737.hg.1 | INPP4B |
| TC04001600.hg.1 | -2.5 | JUC04011779.hg.1 | INPP4B |
| TC04001600.hg.1 | -2.62 | JUC04011787.hg.1 | INPP4B |
| TC04001600.hg.1 | -2.8 | JUC04011747.hg.1 | INPP4B |
| TC04001600.hg.1 | -4.71 | PSR04022332.hg.1 | INPP4B |
| TC04001600.hg.1 | -5.39 | PSR04022314.hg.1 | INPP4B |
| TC04001600.hg.1 | -5.65 | JUC04011792.hg.1 | INPP4B |
| TC04001600.hg.1 | -6.46 | PSR04022313.hg.1 | INPP4B |
| TC05001674.hg.1 | 2.29 | JUC05011701.hg.1 | NREP |
| TC05001674.hg.1 | -2.09 | JUC05011710.hg.1 | NREP |
| TC05001674.hg.1 | -2.21 | PSR05022649.hg.1 | NREP |
| TC05001674.hg.1 | -2.53 | PSR05022621.hg.1 | NREP |
| TC05001674.hg.1 | -2.55 | PSR05022623.hg.1 | NREP |
| TC05001674.hg.1 | -2.73 | PSR05022624.hg.1 | NREP |
| TC05001674.hg.1 | -3.4 | PSR05022622.hg.1 | NREP |
| TC05003404.hg.1 | 2.29 | JUC05019272.hg.1 | BRD9 |
| TC05003404.hg.1 | 2.2 | PSR05015957.hg.1 | BRD9 |
| TC05003404.hg.1 | -2.67 | JUC05019288.hg.1 | BRD9 |
| TC05003404.hg.1 | -3.7 | JUC05019257.hg.1 | BRD9 |
| TC06001534.hg.1 | 2.29 | JUC06008573.hg.1 | GPANK1 |
| TC06001534.hg.1 | 2.02 | PSR06017650.hg.1 | GPANK1 |
| TC06001534.hg.1 | 2.01 | PSR06017662.hg.1 | GPANK1 |
| TC08001179.hg.1 | 2.29 | JUC08007796.hg.1 | SLC20A2 |
| TC08001179.hg.1 | 2.02 | JUC08007792.hg.1 | SLC20A2 |
| TC08001179.hg.1 | -2.28 | PSR08015214.hg.1 | SLC20A2 |
| TC08001179.hg.1 | -2.29 | PSR08015221.hg.1 | SLC20A2 |
| TC08001179.hg.1 | -2.59 | JUC08007800.hg.1 | SLC20A2 |
| TC09000191.hg.1 | 2.29 | PSR09002140.hg.1 | CA9 |
| TC09000191.hg.1 | -2.26 | JUC09001132.hg.1 | CA9 |
| TC09000191.hg.1 | -2.29 | PSR09002132.hg.1 | CA9 |
| TC09000191.hg.1 | -2.64 | PSR09002131.hg.1 | CA9 |
| TC09000191.hg.1 | -3.44 | PSR09002138.hg.1 | CA9 |
| TC09000191.hg.1 | -4.69 | JUC09001125.hg.1 | CA9 |
| TC09000191.hg.1 | -10.06 | JUC09001133.hg.1 | CA9 |
| TC09000191.hg.1 | -11.19 | JUC09001131.hg.1 | CA9 |
| TC09000191.hg.1 | -27.17 | PSR09002137.hg.1 | CA9 |
| TC11001513.hg.1 | 2.29 | JUC11010105.hg.1 | BDNF |
| TC11001513.hg.1 | -2.24 | PSR11018950.hg.1 | BDNF |
| TC11001513.hg.1 | -2.6 | PSR11018962.hg.1 | BDNF |
| TC11001513.hg.1 | -2.6 | JUC11010104.hg.1 | BDNF |
| TC12000804.hg.1 | 2.29 | JUC12005607.hg.1 | TDG |
| TC12000804.hg.1 | -2.26 | JUC12005597.hg.1 | TDG |
| TC12000804.hg.1 | -2.55 | PSR12010230.hg.1 | TDG |
| TC16000783.hg.1 | 2.29 | JUC16006454.hg.1 | ABCA3 |
| TC16000783.hg.1 | -2.04 | JUC16006468.hg.1 | ABCA3 |
| TC16000783.hg.1 | -2.13 | PSR16011516.hg.1 | ABCA3 |
| TC16000783.hg.1 | -2.14 | PSR16011534.hg.1 | ABCA3 |
| TC16000783.hg.1 | -2.38 | JUC16006462.hg.1 | ABCA3 |
| TC16000783.hg.1 | -2.5 | PSR16011529.hg.1 | ABCA3 |
| TC16000783.hg.1 | -2.73 | JUC16006460.hg.1 | ABCA3 |
| TC16000783.hg.1 | -4.72 | JUC16006455.hg.1 | ABCA3 |
| TC20000255.hg.1 | 2.29 | PSR20003430.hg.1 | ERGIC3 |
| TC20000255.hg.1 | 2.15 | PSR20003402.hg.1 | ERGIC3 |
| TC20000255.hg.1 | 2 | JUC20001915.hg.1 | ERGIC3 |
| TC20000255.hg.1 | -2.39 | JUC20001917.hg.1 | ERGIC3 |
| TC21000353.hg.1 | 2.29 | PSR21004079.hg.1 | CCT8 |
| TC21000353.hg.1 | 2.2 | JUC21002192.hg.1 | CCT8 |
| TC22000723.hg.1 | 2.29 | JUC22005327.hg.1 | C1QTNF6 |

| | | | |
|-----------------|-------|------------------|----------|
| TC22000723.hg.1 | -2.11 | PSR22012770.hg.1 | C1QTNF6 |
| TC6_apd_hap1000 | 2.29 | JUC6_apd_hap1000 | EHMT2 |
| TC6_apd_hap1000 | -2.08 | PSR6_apd_hap1001 | EHMT2 |
| TC6_dbb_hap3000 | 2.29 | JUC6_dbb_hap3001 | GPANK1 |
| TC6_dbb_hap3000 | 2.22 | PSR6_dbb_hap3002 | GPANK1 |
| TC6_dbb_hap3000 | 2.03 | PSR6_dbb_hap3002 | GPANK1 |
| TC6_dbb_hap3000 | 2.01 | PSR6_dbb_hap3002 | GPANK1 |
| TC6_mann_hap400 | 2.29 | JUC6_mann_hap400 | GPANK1 |
| TC6_mann_hap400 | 2.02 | PSR6_mann_hap400 | GPANK1 |
| TC6_mann_hap400 | 2.01 | PSR6_mann_hap400 | GPANK1 |
| TC6_mcf_hap5000 | 2.29 | JUC6_mcf_hap5000 | GPANK1 |
| TC6_mcf_hap5000 | 2.02 | PSR6_mcf_hap5002 | GPANK1 |
| TC6_mcf_hap5000 | 2.01 | PSR6_mcf_hap5002 | GPANK1 |
| TC6_mcf_hap5000 | 2.29 | JUC6_mcf_hap5001 | EHMT2 |
| TC6_mcf_hap5000 | -2.08 | PSR6_mcf_hap5003 | EHMT2 |
| TC6_qbl_hap6000 | 2.29 | JUC6_qbl_hap6001 | EHMT2 |
| TC6_qbl_hap6000 | -2.08 | PSR6_qbl_hap6003 | EHMT2 |
| TC13000416.hg.1 | 2.29 | JUC13002795.hg.1 | F7 |
| TC13000416.hg.1 | 2 | PSR13004644.hg.1 | F7 |
| TC01002256.hg.1 | 2.28 | JUC01018417.hg.1 | HSPB7 |
| TC01002256.hg.1 | 2.2 | PSR01034421.hg.1 | HSPB7 |
| TC01002256.hg.1 | 2.11 | PSR01034409.hg.1 | HSPB7 |
| TC01002259.hg.1 | 2.28 | JUC01018452.hg.1 | ARHGEF19 |
| TC01002259.hg.1 | 2.19 | PSR01034466.hg.1 | ARHGEF19 |
| TC01002259.hg.1 | -2.25 | PSR01034488.hg.1 | ARHGEF19 |
| TC01002259.hg.1 | -2.52 | JUC01018461.hg.1 | ARHGEF19 |
| TC01006300.hg.1 | 2.28 | JUC01039512.hg.1 | STIL |
| TC01006300.hg.1 | 2 | JUC01039506.hg.1 | STIL |
| TC01006300.hg.1 | -2.66 | PSR01041161.hg.1 | STIL |
| TC02000174.hg.1 | 2.28 | JUC02001215.hg.1 | NRBP1 |
| TC02000174.hg.1 | 2.21 | PSR02002314.hg.1 | NRBP1 |
| TC02000174.hg.1 | 2.2 | JUC02001199.hg.1 | NRBP1 |
| TC04000711.hg.1 | 2.28 | JUC04005423.hg.1 | SMAD1 |
| TC04000711.hg.1 | -2.04 | PSR04010104.hg.1 | SMAD1 |
| TC04000711.hg.1 | -3.17 | JUC04005420.hg.1 | SMAD1 |
| TC05001520.hg.1 | 2.28 | JUC05010748.hg.1 | DMGDH |
| TC05001520.hg.1 | 2.05 | PSR05020831.hg.1 | DMGDH |
| TC06000978.hg.1 | 2.28 | PSR06011490.hg.1 | L3MBTL3 |
| TC06000978.hg.1 | -2.12 | PSR06011510.hg.1 | L3MBTL3 |
| TC06000978.hg.1 | -2.12 | JUC06005540.hg.1 | L3MBTL3 |
| TC06000978.hg.1 | -2.42 | JUC06005543.hg.1 | L3MBTL3 |
| TC06000978.hg.1 | -2.43 | JUC06005538.hg.1 | L3MBTL3 |
| TC06000978.hg.1 | -3.26 | JUC06005554.hg.1 | L3MBTL3 |
| TC06000978.hg.1 | -4.66 | JUC06005539.hg.1 | L3MBTL3 |
| TC08000880.hg.1 | 2.28 | JUC08006014.hg.1 | C8orf42 |
| TC08000880.hg.1 | 2.09 | PSR08011616.hg.1 | C8orf42 |
| TC09000270.hg.1 | 2.28 | JUC09001528.hg.1 | KGFLP1 |
| TC09000270.hg.1 | -2.27 | PSR09002938.hg.1 | KGFLP1 |
| TC09000270.hg.1 | -3.78 | JUC09001529.hg.1 | KGFLP1 |
| TC10000211.hg.1 | 2.28 | PSR10002458.hg.1 | MAP3K8 |
| TC10000211.hg.1 | -2.13 | JUC10001326.hg.1 | MAP3K8 |
| TC10000798.hg.1 | 2.28 | PSR10009547.hg.1 | MXI1 |
| TC10000798.hg.1 | 2.13 | JUC10005325.hg.1 | MXI1 |
| TC10000798.hg.1 | -2.49 | JUC10005308.hg.1 | MXI1 |
| TC10000798.hg.1 | -3.22 | JUC10005310.hg.1 | MXI1 |
| TC11001194.hg.1 | 2.28 | JUC11008095.hg.1 | APLP2 |
| TC11001194.hg.1 | 2.03 | PSR11014996.hg.1 | APLP2 |
| TC11001355.hg.1 | 2.28 | JUC11009069.hg.1 | APBB1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC11001355.hg.1 | 2.16 | PSR11017001.hg.1 | APBB1 |
| TC11001355.hg.1 | 2.04 | PSR11017009.hg.1 | APBB1 |
| TC11001355.hg.1 | -2.11 | JUC11009088.hg.1 | APBB1 |
| TC11001355.hg.1 | -2.15 | JUC11009079.hg.1 | APBB1 |
| TC13000273.hg.1 | 2.28 | PSR13002992.hg.1 | KLF5 |
| TC13000273.hg.1 | -2.06 | PSR13002999.hg.1 | KLF5 |
| TC13000273.hg.1 | -2.46 | PSR13002985.hg.1 | KLF5 |
| TC13000273.hg.1 | -2.72 | JUC13001872.hg.1 | KLF5 |
| TC17000184.hg.1 | 2.28 | JUC17001433.hg.1 | PIGL |
| TC17000184.hg.1 | 2.2 | PSR17002452.hg.1 | PIGL |
| TC17000918.hg.1 | 2.28 | JUC17006725.hg.1 | RNF213 |
| TC17000918.hg.1 | 2.02 | PSR17012012.hg.1 | RNF213 |
| TC17000918.hg.1 | -2.14 | JUC17006783.hg.1 | RNF213 |
| TC17000918.hg.1 | -2.22 | JUC17006721.hg.1 | RNF213 |
| TC17000918.hg.1 | -3.37 | JUC17006760.hg.1 | RNF213 |
| TC17001455.hg.1 | 2.28 | PSR17019186.hg.1 | IKZF3 |
| TC17001455.hg.1 | -2.34 | JUC17010896.hg.1 | IKZF3 |
| TC17001540.hg.1 | 2.28 | JUC17011528.hg.1 | EZH1 |
| TC17001540.hg.1 | -2.26 | PSR17020607.hg.1 | EZH1 |
| TC17001540.hg.1 | -2.28 | JUC17011541.hg.1 | EZH1 |
| TC17001540.hg.1 | -2.42 | JUC17011533.hg.1 | EZH1 |
| TC17001540.hg.1 | -3.1 | JUC17011518.hg.1 | EZH1 |
| TC17001734.hg.1 | 2.28 | PSR17023249.hg.1 | MTMR4 |
| TC17001734.hg.1 | 2.12 | JUC17012939.hg.1 | MTMR4 |
| TC17001734.hg.1 | -2.21 | PSR17023231.hg.1 | MTMR4 |
| TC17002878.hg.1 | 2.28 | PSR17007414.hg.1 | ITGB3 |
| TC17002878.hg.1 | -2.07 | PSR17007428.hg.1 | ITGB3 |
| TC17002878.hg.1 | -2.22 | JUC17018714.hg.1 | ITGB3 |
| TC17002878.hg.1 | -2.8 | JUC17018713.hg.1 | ITGB3 |
| TC17002879.hg.1 | 2.28 | JUC17018727.hg.1 | C17orf57 |
| TC17002879.hg.1 | 2.08 | PSR17007448.hg.1 | C17orf57 |
| TC17002879.hg.1 | -2.45 | JUC17018731.hg.1 | C17orf57 |
| TC17002879.hg.1 | -2.6 | JUC17018748.hg.1 | C17orf57 |
| TC17002879.hg.1 | -3.41 | JUC17018717.hg.1 | C17orf57 |
| TC17002879.hg.1 | -5.16 | JUC17018721.hg.1 | C17orf57 |
| TC18000033.hg.1 | 2.28 | JUC18000180.hg.1 | ARHGAP28 |
| TC18000033.hg.1 | -2.08 | JUC18000181.hg.1 | ARHGAP28 |
| TC18000033.hg.1 | -2.62 | PSR18000302.hg.1 | ARHGAP28 |
| TC19001127.hg.1 | 2.28 | JUC19008862.hg.1 | CD320 |
| TC19001127.hg.1 | 2.17 | PSR19015517.hg.1 | CD320 |
| TC02000032.hg.1 | 2.28 | JUC02000208.hg.1 | LOC150622, |
| TC02000032.hg.1 | 2 | PSR02000383.hg.1 | LOC150622, |
| TC01000873.hg.1 | 2.27 | PSR01013844.hg.1 | SLC44A3 |
| TC01000873.hg.1 | 2.17 | JUC01007321.hg.1 | SLC44A3 |
| TC01000873.hg.1 | -2.81 | JUC01007304.hg.1 | SLC44A3 |
| TC01000873.hg.1 | -2.96 | PSR01013829.hg.1 | SLC44A3 |
| TC01000873.hg.1 | -2.98 | PSR01013849.hg.1 | SLC44A3 |
| TC01000873.hg.1 | -3.35 | PSR01013831.hg.1 | SLC44A3 |
| TC01000873.hg.1 | -5.58 | JUC01007316.hg.1 | SLC44A3 |
| TC01002911.hg.1 | 2.27 | JUC01024348.hg.1 | FRRS1 |
| TC01002911.hg.1 | 2.25 | JUC01024343.hg.1 | FRRS1 |
| TC01002911.hg.1 | 2.2 | PSR01045289.hg.1 | FRRS1 |
| TC01002911.hg.1 | 2.11 | JUC01024338.hg.1 | FRRS1 |
| TC01002911.hg.1 | 2.04 | PSR01045288.hg.1 | FRRS1 |
| TC01002911.hg.1 | 2.02 | PSR01045292.hg.1 | FRRS1 |
| TC01002911.hg.1 | -2.04 | PSR01045293.hg.1 | FRRS1 |
| TC01002911.hg.1 | -2.27 | JUC01024336.hg.1 | FRRS1 |
| TC01002911.hg.1 | -2.31 | PSR01045290.hg.1 | FRRS1 |

| | | | |
|------------------|--------|-------------------|-------------|
| TC01002911.hg.1 | -2.34 | JUC01024339.hg.1 | FRRS1 |
| TC01002911.hg.1 | -2.36 | PSR01045275.hg.1 | FRRS1 |
| TC01002911.hg.1 | -2.39 | PSR01045278.hg.1 | FRRS1 |
| TC02000250.hg.1 | 2.27 | JUC02001930.hg.1 | LOC728730 |
| TC02000250.hg.1 | -2.48 | PSR02003748.hg.1 | LOC728730 |
| TC02002510.hg.1 | 2.27 | JUC02020981.hg.1 | FASTKD1 |
| TC02002510.hg.1 | -2.25 | PSR02039843.hg.1 | FASTKD1 |
| TC03001608.hg.1 | 2.27 | PSR03029025.hg.1 | FILIP1L |
| TC03001608.hg.1 | 2.16 | PSR03029019.hg.1 | FILIP1L |
| TC03001608.hg.1 | 2.13 | PSR03028999.hg.1 | FILIP1L |
| TC03001608.hg.1 | -2 | PSR03029006.hg.1 | FILIP1L |
| TC03001608.hg.1 | -2.62 | JUC03014270.hg.1 | FILIP1L |
| TC05000725.hg.1 | 2.27 | JUC05005461.hg.1 | SLC4A9 |
| TC05000725.hg.1 | 2.11 | JUC05005441.hg.1 | SLC4A9 |
| TC05000725.hg.1 | 2.07 | PSR05010297.hg.1 | SLC4A9 |
| TC07000065.hg.1 | 2.27 | JUC07000448.hg.1 | RAC1 |
| TC07000065.hg.1 | 2.22 | PSR07001055.hg.1 | RAC1 |
| TC07000594.hg.1 | 2.27 | JUC07004139.hg.1 | CPSF4 |
| TC07000594.hg.1 | 2.2 | PSR07008796.hg.1 | CPSF4 |
| TC07000594.hg.1 | -2.4 | JUC07004132.hg.1 | CPSF4 |
| TC07000594.hg.1 | -2.44 | PSR07008792.hg.1 | CPSF4 |
| TC07000594.hg.1 | -2.7 | PSR07008793.hg.1 | CPSF4 |
| TC0X000357.hg.1 | 2.27 | PSR0X004610.hg.1 | HEPH |
| TC0X000357.hg.1 | 2.04 | JUC0X002218.hg.1 | HEPH |
| TC0X001535.hg.1 | 2.27 | PSR0X020512.hg.1 | UBL4A |
| TC0X001535.hg.1 | 2.02 | JUC0X010245.hg.1 | UBL4A |
| TC12000369.hg.1 | 2.27 | PSR12004547.hg.1 | PRPH |
| TC12000369.hg.1 | -2.11 | JUC12002480.hg.1 | PRPH |
| TC12000369.hg.1 | -2.23 | PSR12004554.hg.1 | PRPH |
| TC12000979.hg.1 | 2.27 | JUC12007088.hg.1 | HIP1R |
| TC12000979.hg.1 | -2.27 | JUC12007073.hg.1 | HIP1R |
| TC12000979.hg.1 | -2.95 | JUC12007089.hg.1 | HIP1R |
| TC12000979.hg.1 | -3.06 | PSR12012873.hg.1 | HIP1R |
| TC12000979.hg.1 | -5.11 | JUC12007085.hg.1 | HIP1R |
| TC14000131.hg.1 | 2.27 | JUC14000471.hg.1 | OXA1L |
| TC14000131.hg.1 | 2.09 | PSR14001071.hg.1 | OXA1L |
| TC14001343.hg.1 | 2.27 | PSR14015259.hg.1 | TMED8 |
| TC14001343.hg.1 | 2.25 | JUC14007753.hg.1 | TMED8 |
| TC17_ctg5_hap100 | 2.27 | PSR17_ctg5_hap100 | LRRC37A2, L |
| TC17_ctg5_hap100 | -3.06 | JUC17_ctg5_hap100 | LRRC37A2, L |
| TC17001560.hg.1 | 2.27 | JUC17011705.hg.1 | ETV4 |
| TC17001560.hg.1 | -2.27 | PSR17020897.hg.1 | ETV4 |
| TC17001589.hg.1 | 2.27 | JUC17012020.hg.1 | KIF18B |
| TC17001589.hg.1 | -2.16 | PSR17021421.hg.1 | KIF18B |
| TC20000051.hg.1 | 2.27 | JUC20000395.hg.1 | PRNP |
| TC20000051.hg.1 | 2.23 | PSR20000809.hg.1 | PRNP |
| TC6_apd_hap1000 | 2.27 | PSR6_apd_hap1000 | GABBR1 |
| TC6_apd_hap1000 | 2 | JUC6_apd_hap1000 | GABBR1 |
| TC6_apd_hap1000 | -2.18 | JUC6_apd_hap1000 | GABBR1 |
| TC6_cox_hap2000 | 2.27 | JUC6_cox_hap2001 | GPANK1 |
| TC6_cox_hap2000 | 2.01 | PSR6_cox_hap2002 | GPANK1 |
| TC02000755.hg.1 | 2.27 | JUC02006246.hg.1 | TMEM177 |
| TC02000755.hg.1 | 2.16 | JUC02006238.hg.1 | TMEM177 |
| TC02000755.hg.1 | 2 | PSR02011810.hg.1 | TMEM177 |
| TC01001337.hg.1 | 2.26 | PSR01020997.hg.1 | CD1D |
| TC01001337.hg.1 | 2.2 | PSR01020995.hg.1 | CD1D |
| TC01001337.hg.1 | -2.47 | PSR01021002.hg.1 | CD1D |
| TC01001337.hg.1 | -13.26 | JUC01011189.hg.1 | CD1D |

| | | | |
|-----------------|-------|------------------|---------|
| TC02000328.hg.1 | 2.26 | PSR02005012.hg.1 | CCDC85A |
| TC02000328.hg.1 | 2.23 | PSR02005005.hg.1 | CCDC85A |
| TC02000328.hg.1 | 2.16 | PSR02005009.hg.1 | CCDC85A |
| TC02000328.hg.1 | 2.11 | PSR02005013.hg.1 | CCDC85A |
| TC02000328.hg.1 | 2.1 | PSR02005006.hg.1 | CCDC85A |
| TC02000328.hg.1 | 2.08 | JUC02002627.hg.1 | CCDC85A |
| TC02000328.hg.1 | -2 | JUC02002621.hg.1 | CCDC85A |
| TC02000328.hg.1 | -2.31 | PSR02005017.hg.1 | CCDC85A |
| TC02000328.hg.1 | -2.6 | PSR02005020.hg.1 | CCDC85A |
| TC02000328.hg.1 | -2.61 | PSR02005021.hg.1 | CCDC85A |
| TC02000328.hg.1 | -3.29 | JUC02002620.hg.1 | CCDC85A |
| TC02001386.hg.1 | 2.26 | JUC02011545.hg.1 | PSMD1 |
| TC02001386.hg.1 | 2.02 | JUC02011548.hg.1 | PSMD1 |
| TC02001386.hg.1 | -2.58 | PSR02021772.hg.1 | PSMD1 |
| TC02001978.hg.1 | 2.26 | JUC02016450.hg.1 | SFXN5 |
| TC02001978.hg.1 | 2.13 | JUC02016461.hg.1 | SFXN5 |
| TC02001978.hg.1 | -2.15 | PSR02031575.hg.1 | SFXN5 |
| TC02001978.hg.1 | -2.16 | PSR02031555.hg.1 | SFXN5 |
| TC02001978.hg.1 | -2.18 | PSR02031567.hg.1 | SFXN5 |
| TC02001978.hg.1 | -2.19 | JUC02016478.hg.1 | SFXN5 |
| TC02001978.hg.1 | -2.25 | JUC02016472.hg.1 | SFXN5 |
| TC02002121.hg.1 | 2.26 | JUC02017767.hg.1 | ACTR1B |
| TC02002121.hg.1 | -2.03 | PSR02034458.hg.1 | ACTR1B |
| TC02005063.hg.1 | 2.26 | JUC02033337.hg.1 | BAZ2B |
| TC02005063.hg.1 | -2.15 | PSR02038714.hg.1 | BAZ2B |
| TC02005063.hg.1 | -2.22 | JUC02033334.hg.1 | BAZ2B |
| TC03001203.hg.1 | 2.26 | PSR03020637.hg.1 | ZFYVE20 |
| TC03001203.hg.1 | 2.23 | JUC03010331.hg.1 | ZFYVE20 |
| TC03001203.hg.1 | -2.01 | JUC03010314.hg.1 | ZFYVE20 |
| TC05001644.hg.1 | 2.26 | PSR05022352.hg.1 | GIN1 |
| TC05001644.hg.1 | 2.26 | JUC05011545.hg.1 | GIN1 |
| TC05001644.hg.1 | 2.19 | PSR05022355.hg.1 | GIN1 |
| TC05001644.hg.1 | -2.23 | PSR05022361.hg.1 | GIN1 |
| TC06001959.hg.1 | 2.26 | PSR06024128.hg.1 | MMS22L |
| TC06001959.hg.1 | -2 | PSR06024105.hg.1 | MMS22L |
| TC06001959.hg.1 | -2.01 | PSR06024101.hg.1 | MMS22L |
| TC06001959.hg.1 | -2.02 | PSR06024086.hg.1 | MMS22L |
| TC06001959.hg.1 | -2.07 | PSR06024096.hg.1 | MMS22L |
| TC06001959.hg.1 | -2.13 | JUC06011810.hg.1 | MMS22L |
| TC06001959.hg.1 | -2.29 | PSR06024099.hg.1 | MMS22L |
| TC06001959.hg.1 | -2.6 | JUC06011790.hg.1 | MMS22L |
| TC06004050.hg.1 | 2.26 | PSR06018440.hg.1 | PBX2 |
| TC06004050.hg.1 | 2.08 | JUC06020561.hg.1 | PBX2 |
| TC07001303.hg.1 | 2.26 | JUC07009903.hg.1 | AMPH |
| TC07001303.hg.1 | -2.14 | PSR07020202.hg.1 | AMPH |
| TC07001548.hg.1 | 2.26 | JUC07011519.hg.1 | PION |
| TC07001548.hg.1 | 2.15 | PSR07023278.hg.1 | PION |
| TC07001548.hg.1 | -2.4 | JUC07011528.hg.1 | PION |
| TC07003367.hg.1 | 2.26 | PSR07025283.hg.1 | TRIM4 |
| TC07003367.hg.1 | -2.43 | JUC07021507.hg.1 | TRIM4 |
| TC0X000385.hg.1 | 2.26 | PSR0X005139.hg.1 | NONO |
| TC0X000385.hg.1 | -2.2 | JUC0X002519.hg.1 | NONO |
| TC0X000568.hg.1 | 2.26 | JUC0X003697.hg.1 | PLS3 |
| TC0X000568.hg.1 | -2.47 | PSR0X007468.hg.1 | PLS3 |
| TC0X000568.hg.1 | -2.84 | JUC0X003698.hg.1 | PLS3 |
| TC0X000568.hg.1 | -3.47 | PSR0X007473.hg.1 | PLS3 |
| TC11001728.hg.1 | 2.26 | JUC11010730.hg.1 | LRP4 |
| TC11001728.hg.1 | -2.06 | PSR11020147.hg.1 | LRP4 |

| | | | |
|------------------|--------|-------------------|------------|
| TC11001728.hg.1 | -2.28 | JUC11010708.hg.1 | LRP4 |
| TC11001728.hg.1 | -3.21 | JUC11010725.hg.1 | LRP4 |
| TC11001814.hg.1 | 2.26 | PSR11020979.hg.1 | GLYATL2 |
| TC11001814.hg.1 | 2.01 | JUC11011193.hg.1 | GLYATL2 |
| TC12000496.hg.1 | 2.26 | PSR12006292.hg.1 | CDK2 |
| TC12000496.hg.1 | 2.25 | JUC12003363.hg.1 | CDK2 |
| TC12000496.hg.1 | 2.24 | PSR12006282.hg.1 | CDK2 |
| TC12003251.hg.1 | 2.26 | PSR12008188.hg.1 | RAB3IP |
| TC12003251.hg.1 | -3.39 | JUC12020119.hg.1 | RAB3IP |
| TC13000458.hg.1 | 2.26 | PSR13005225.hg.1 | CRYL1 |
| TC13000458.hg.1 | 2.24 | PSR13005227.hg.1 | CRYL1 |
| TC13000458.hg.1 | -2.36 | JUC13003131.hg.1 | CRYL1 |
| TC16002074.hg.1 | 2.26 | PSR16006477.hg.1 | MT1M |
| TC16002074.hg.1 | -5.52 | JUC16013728.hg.1 | MT1M |
| TC16002074.hg.1 | -7.3 | PSR16006478.hg.1 | MT1M |
| TC16002074.hg.1 | -10.63 | PSR16006475.hg.1 | MT1M |
| TC17_ctg5_hap100 | 2.26 | PSR17_ctg5_hap100 | PLEKHM1, M |
| TC17_ctg5_hap100 | 2.16 | JUC17_ctg5_hap100 | PLEKHM1, M |
| TC17_ctg5_hap100 | 2.05 | PSR17_ctg5_hap100 | PLEKHM1, M |
| TC17001465.hg.1 | 2.26 | PSR17019465.hg.1 | TNS4 |
| TC17001465.hg.1 | 2.1 | JUC17011027.hg.1 | TNS4 |
| TC17001465.hg.1 | -2.21 | PSR17019472.hg.1 | TNS4 |
| TC17001465.hg.1 | -2.99 | JUC17011026.hg.1 | TNS4 |
| TC19001485.hg.1 | 2.26 | JUC19011589.hg.1 | ZNF571 |
| TC19001485.hg.1 | -3.26 | PSR19020146.hg.1 | ZNF571 |
| TC22000337.hg.1 | 2.26 | JUC22002390.hg.1 | ACO2 |
| TC22000337.hg.1 | 2.21 | PSR22006504.hg.1 | ACO2 |
| TC22000337.hg.1 | 2.05 | PSR22006505.hg.1 | ACO2 |
| TC22000337.hg.1 | -2.05 | PSR22006491.hg.1 | ACO2 |
| TC22001428.hg.1 | 2.26 | JUC22008626.hg.1 | MTMR3 |
| TC22001428.hg.1 | -2.06 | JUC22008617.hg.1 | MTMR3 |
| TC22001428.hg.1 | -2.54 | PSR22003793.hg.1 | MTMR3 |
| TC22001428.hg.1 | -2.67 | PSR22003802.hg.1 | MTMR3 |
| TC6_apd_hap1000 | 2.26 | PSR6_apd_hap1001 | PBX2 |
| TC6_apd_hap1000 | 2.08 | JUC6_apd_hap1000 | PBX2 |
| TC6_cox_hap2000 | 2.26 | PSR6_cox_hap2003 | PBX2 |
| TC6_cox_hap2000 | 2.08 | JUC6_cox_hap2001 | PBX2 |
| TC6_cox_hap2000 | 2.26 | PSR6_cox_hap2002 | GABBR1 |
| TC6_cox_hap2000 | -2.19 | JUC6_cox_hap2002 | GABBR1 |
| TC6_dbb_hap3000 | 2.26 | PSR6_dbb_hap3002 | GABBR1 |
| TC6_dbb_hap3000 | -2.19 | JUC6_dbb_hap3001 | GABBR1 |
| TC6_mcf_hap5000 | 2.26 | PSR6_mcf_hap5001 | GABBR1 |
| TC6_mcf_hap5000 | -2.19 | JUC6_mcf_hap5001 | GABBR1 |
| TC6_ssto_hap7000 | 2.26 | PSR6_ssto_hap7003 | PBX2 |
| TC6_ssto_hap7000 | 2.08 | JUC6_ssto_hap7001 | PBX2 |
| TC6_ssto_hap7000 | -2 | PSR6_ssto_hap7003 | PBX2 |
| TC01000975.hg.1 | 2.25 | JUC01008141.hg.1 | C1orf88 |
| TC01000975.hg.1 | -2.05 | PSR01015569.hg.1 | C1orf88 |
| TC01001871.hg.1 | 2.25 | JUC01015713.hg.1 | ZNF678 |
| TC01001871.hg.1 | -2.1 | PSR01029127.hg.1 | ZNF678 |
| TC01003087.hg.1 | 2.25 | JUC01025678.hg.1 | LOC728855, |
| TC01003087.hg.1 | 2.12 | JUC01025690.hg.1 | LOC728855, |
| TC01003087.hg.1 | -2.11 | PSR01047850.hg.1 | LOC728855, |
| TC01003087.hg.1 | -2.15 | PSR01047862.hg.1 | LOC728855, |
| TC01003087.hg.1 | -2.18 | JUC01025689.hg.1 | LOC728855, |
| TC01003087.hg.1 | -3.56 | PSR01047816.hg.1 | LOC728855, |
| TC01003091.hg.1 | 2.25 | JUC01025715.hg.1 | LOC728875 |
| TC01003091.hg.1 | 2.12 | JUC01025725.hg.1 | LOC728875 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01003091.hg.1 | -2.11 | PSR01047924.hg.1 | LOC728875 |
| TC01003091.hg.1 | -2.15 | PSR01047935.hg.1 | LOC728875 |
| TC01003091.hg.1 | -2.18 | JUC01025724.hg.1 | LOC728875 |
| TC01003091.hg.1 | -2.85 | JUC01025714.hg.1 | LOC728875 |
| TC02000233.hg.1 | 2.25 | JUC02001818.hg.1 | CCDC75 |
| TC02000233.hg.1 | 2.04 | JUC02001820.hg.1 | CCDC75 |
| TC02000233.hg.1 | -2.28 | PSR02003454.hg.1 | CCDC75 |
| TC02000365.hg.1 | 2.25 | JUC02002898.hg.1 | LOC1005070 |
| TC02000365.hg.1 | -2.25 | PSR02005593.hg.1 | LOC1005070 |
| TC02000620.hg.1 | 2.25 | JUC02005198.hg.1 | IL1R1 |
| TC02000620.hg.1 | 2.07 | JUC02005200.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.02 | JUC02005210.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.07 | PSR02009815.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.12 | JUC02005192.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.16 | PSR02009840.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.27 | PSR02009806.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.27 | PSR02009811.hg.1 | IL1R1 |
| TC02000620.hg.1 | -2.29 | PSR02009814.hg.1 | IL1R1 |
| TC02000620.hg.1 | -3.02 | JUC02005209.hg.1 | IL1R1 |
| TC02001102.hg.1 | 2.25 | JUC02008833.hg.1 | |
| TC02001102.hg.1 | 2.11 | PSR02016543.hg.1 | |
| TC03003333.hg.1 | 2.25 | PSR03036923.hg.1 | ETV5 |
| TC03003333.hg.1 | -2.94 | JUC03023240.hg.1 | ETV5 |
| TC04000874.hg.1 | 2.25 | JUC04006443.hg.1 | NEIL3 |
| TC04000874.hg.1 | 2.2 | PSR04011998.hg.1 | NEIL3 |
| TC04000874.hg.1 | -2.09 | JUC04006437.hg.1 | NEIL3 |
| TC04000874.hg.1 | -3.21 | JUC04006439.hg.1 | NEIL3 |
| TC06000283.hg.1 | 2.25 | JUC06001083.hg.1 | ZKSCAN3 |
| TC06000283.hg.1 | 2.19 | JUC06001082.hg.1 | ZKSCAN3 |
| TC06000283.hg.1 | 2.16 | PSR06002361.hg.1 | ZKSCAN3 |
| TC06000283.hg.1 | 2.08 | PSR06002363.hg.1 | ZKSCAN3 |
| TC06000283.hg.1 | 2.03 | JUC06001086.hg.1 | ZKSCAN3 |
| TC06000283.hg.1 | -2.44 | JUC06001078.hg.1 | ZKSCAN3 |
| TC06001014.hg.1 | 2.25 | JUC06005809.hg.1 | LINC00271 |
| TC06001014.hg.1 | 2.18 | JUC06005815.hg.1 | LINC00271 |
| TC06001014.hg.1 | -2.67 | PSR06011929.hg.1 | LINC00271 |
| TC08001729.hg.1 | 2.25 | PSR08022806.hg.1 | FAM83H |
| TC08001729.hg.1 | -2.4 | JUC08011720.hg.1 | FAM83H |
| TC10000314.hg.1 | 2.25 | JUC10002090.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | 2.06 | JUC10002092.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | -2.09 | JUC10002099.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | -2.17 | JUC10002084.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | -2.24 | JUC10002089.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | -2.77 | PSR10003589.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | -4.29 | PSR10003616.hg.1 | ANXA8L1, AN |
| TC10000314.hg.1 | -6.02 | JUC10002097.hg.1 | ANXA8L1, AN |
| TC10000559.hg.1 | 2.25 | PSR10006022.hg.1 | LOC1001329 |
| TC10000559.hg.1 | -2.39 | JUC10003487.hg.1 | LOC1001329 |
| TC10001257.hg.1 | 2.25 | PSR10015657.hg.1 | FAM25C, FAM |
| TC10001257.hg.1 | 2.01 | JUC10009074.hg.1 | FAM25C, FAM |
| TC11000734.hg.1 | 2.25 | JUC11004972.hg.1 | NADSYN1 |
| TC11000734.hg.1 | 2.17 | PSR11009597.hg.1 | NADSYN1 |
| TC12003291.hg.1 | 2.25 | PSR12003125.hg.1 | SSPN |
| TC12003291.hg.1 | 2.22 | JUC12020583.hg.1 | SSPN |
| TC12003291.hg.1 | 2.17 | PSR12003122.hg.1 | SSPN |
| TC12003291.hg.1 | -2.06 | JUC12020587.hg.1 | SSPN |
| TC12003291.hg.1 | -2.1 | PSR12003119.hg.1 | SSPN |
| TC13000876.hg.1 | 2.25 | JUC13005783.hg.1 | CARS2 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC13000876.hg.1 | 2.16 | PSR13009812.hg.1 | CARS2 |
| TC6_qbl_hap60002 | 2.25 | PSR6_qbl_hap60021 | GABBR1 |
| TC6_qbl_hap60002 | -2.19 | JUC6_qbl_hap60020 | GABBR1 |
| TC01000253.hg.1 | 2.24 | PSR01003968.hg.1 | OTUD3 |
| TC01000253.hg.1 | 2.02 | JUC01002127.hg.1 | OTUD3 |
| TC01000475.hg.1 | 2.24 | PSR01007378.hg.1 | DNALI1 |
| TC01000475.hg.1 | -2.06 | JUC01003833.hg.1 | DNALI1 |
| TC01000475.hg.1 | -2.57 | JUC01003839.hg.1 | DNALI1 |
| TC01003903.hg.1 | 2.24 | JUC01031194.hg.1 | CDC42BPA |
| TC01003903.hg.1 | -2.07 | JUC01031165.hg.1 | CDC42BPA |
| TC01003903.hg.1 | -2.09 | JUC01031182.hg.1 | CDC42BPA |
| TC01003903.hg.1 | -2.09 | JUC01031201.hg.1 | CDC42BPA |
| TC01003903.hg.1 | -2.63 | PSR01059520.hg.1 | CDC42BPA |
| TC01003903.hg.1 | -3.01 | JUC01031181.hg.1 | CDC42BPA |
| TC02002698.hg.1 | 2.24 | PSR02043501.hg.1 | GPR1 |
| TC02002698.hg.1 | 2.18 | PSR02043499.hg.1 | GPR1 |
| TC02002698.hg.1 | 2.1 | PSR02043502.hg.1 | GPR1 |
| TC02002698.hg.1 | -3.48 | PSR02043511.hg.1 | GPR1 |
| TC02002698.hg.1 | -3.62 | JUC02022794.hg.1 | GPR1 |
| TC02002698.hg.1 | -5.29 | PSR02043513.hg.1 | GPR1 |
| TC02002698.hg.1 | -7.49 | JUC02022793.hg.1 | GPR1 |
| TC05002169.hg.1 | 2.24 | PSR05030493.hg.1 | GNB2L1, SNC |
| TC05002169.hg.1 | -2 | JUC05015448.hg.1 | GNB2L1, SNC |
| TC05002169.hg.1 | -2.2 | JUC05015433.hg.1 | GNB2L1, SNC |
| TC06000931.hg.1 | 2.24 | JUC06005201.hg.1 | DCBLD1 |
| TC06000931.hg.1 | -2.04 | JUC06005197.hg.1 | DCBLD1 |
| TC06000931.hg.1 | -2.07 | JUC06005196.hg.1 | DCBLD1 |
| TC06000931.hg.1 | -2.1 | JUC06005186.hg.1 | DCBLD1 |
| TC06000931.hg.1 | -2.32 | PSR06010879.hg.1 | DCBLD1 |
| TC06000931.hg.1 | -2.39 | PSR06010906.hg.1 | DCBLD1 |
| TC06000931.hg.1 | -4.15 | JUC06005198.hg.1 | DCBLD1 |
| TC07000868.hg.1 | 2.24 | JUC07006471.hg.1 | TRIM24 |
| TC07000868.hg.1 | -2.02 | PSR07013507.hg.1 | TRIM24 |
| TC07000868.hg.1 | -4.23 | JUC07006456.hg.1 | TRIM24 |
| TC08000660.hg.1 | 2.24 | JUC08004550.hg.1 | OXR1 |
| TC08000660.hg.1 | -2 | JUC08004549.hg.1 | OXR1 |
| TC08000660.hg.1 | -2.17 | JUC08004555.hg.1 | OXR1 |
| TC08000660.hg.1 | -2.32 | PSR08008996.hg.1 | OXR1 |
| TC08001590.hg.1 | 2.24 | PSR08020813.hg.1 | FBXO32 |
| TC08001590.hg.1 | -2.71 | JUC08010630.hg.1 | FBXO32 |
| TC08001590.hg.1 | -2.94 | JUC08010636.hg.1 | FBXO32 |
| TC08001590.hg.1 | -4.46 | PSR08020820.hg.1 | FBXO32 |
| TC09002886.hg.1 | 2.24 | PSR09010770.hg.1 | MAMDC4 |
| TC09002886.hg.1 | 2.23 | JUC09015621.hg.1 | MAMDC4 |
| TC09002886.hg.1 | -2.1 | JUC09015617.hg.1 | MAMDC4 |
| TC0X000572.hg.1 | 2.24 | JUC0X003745.hg.1 | WDR44 |
| TC0X000572.hg.1 | 2.17 | PSR0X007529.hg.1 | WDR44 |
| TC0X000572.hg.1 | -2.01 | JUC0X003761.hg.1 | WDR44 |
| TC0X001124.hg.1 | 2.24 | PSR0X015305.hg.1 | ZMYM3 |
| TC0X001124.hg.1 | -3.78 | JUC0X007762.hg.1 | ZMYM3 |
| TC0X001156.hg.1 | 2.24 | JUC0X007901.hg.1 | FTX |
| TC0X001156.hg.1 | 2.04 | JUC0X007894.hg.1 | FTX |
| TC0X001156.hg.1 | -2.09 | PSR0X015648.hg.1 | FTX |
| TC11000026.hg.1 | 2.24 | PSR11000383.hg.1 | EPS8L2 |
| TC11000026.hg.1 | 2.19 | JUC11000214.hg.1 | EPS8L2 |
| TC11000240.hg.1 | 2.24 | JUC11001573.hg.1 | LDHA |
| TC11000240.hg.1 | 2 | PSR11003174.hg.1 | LDHA |
| TC11000240.hg.1 | -2.17 | PSR11003210.hg.1 | LDHA |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12000508.hg.1 | 2.24 | PSR12006693.hg.1 | SLC39A5 |
| TC12000508.hg.1 | -2.05 | PSR12006689.hg.1 | SLC39A5 |
| TC12000508.hg.1 | -2.11 | JUC12003467.hg.1 | SLC39A5 |
| TC14000426.hg.1 | 2.24 | JUC14002623.hg.1 | TTC9 |
| TC14000426.hg.1 | 2.11 | PSR14005132.hg.1 | TTC9 |
| TC15002761.hg.1 | 2.24 | PSR15001164.hg.1 | LOC1002886 |
| TC15002761.hg.1 | 2.02 | JUC15013241.hg.1 | LOC1002886 |
| TC15002761.hg.1 | -2.85 | JUC15013239.hg.1 | LOC1002886 |
| TC17000088.hg.1 | 2.24 | JUC17000704.hg.1 | EIF5A |
| TC17000088.hg.1 | 2.06 | PSR17001154.hg.1 | EIF5A |
| TC01000071.hg.1 | 2.23 | JUC01000582.hg.1 | TP73 |
| TC01000071.hg.1 | -2.01 | PSR01001130.hg.1 | TP73 |
| TC01002253.hg.1 | 2.23 | PSR01034336.hg.1 | ZBTB17 |
| TC01002253.hg.1 | -3.32 | JUC01018398.hg.1 | ZBTB17 |
| TC02002536.hg.1 | 2.23 | PSR02040226.hg.1 | OLA1 |
| TC02002536.hg.1 | -2.36 | JUC02021202.hg.1 | OLA1 |
| TC03001041.hg.1 | 2.23 | JUC03009340.hg.1 | TPRG1, LOC |
| TC03001041.hg.1 | -2.27 | PSR03018424.hg.1 | TPRG1, LOC |
| TC03001472.hg.1 | 2.23 | PSR03026807.hg.1 | CHDH |
| TC03001472.hg.1 | 2.1 | PSR03026808.hg.1 | CHDH |
| TC03001472.hg.1 | -2.06 | JUC03013056.hg.1 | CHDH |
| TC03001472.hg.1 | -2.53 | JUC03013057.hg.1 | CHDH |
| TC03001472.hg.1 | -2.64 | JUC03013049.hg.1 | CHDH |
| TC04000577.hg.1 | 2.23 | JUC04004410.hg.1 | C4orf32 |
| TC04000577.hg.1 | -2.28 | PSR04008379.hg.1 | C4orf32 |
| TC04000806.hg.1 | 2.23 | JUC04005971.hg.1 | ETFDH |
| TC04000806.hg.1 | 2.07 | JUC04005970.hg.1 | ETFDH |
| TC04000806.hg.1 | 2.03 | JUC04005969.hg.1 | ETFDH |
| TC04000806.hg.1 | -2.23 | JUC04005967.hg.1 | ETFDH |
| TC04000806.hg.1 | -2.44 | PSR04011154.hg.1 | ETFDH |
| TC05000284.hg.1 | 2.23 | JUC05001980.hg.1 | MAST4 |
| TC05000284.hg.1 | 2.07 | PSR05003684.hg.1 | MAST4 |
| TC05000284.hg.1 | -2.07 | JUC05001961.hg.1 | MAST4 |
| TC05000284.hg.1 | -2.11 | PSR05003747.hg.1 | MAST4 |
| TC05000284.hg.1 | -3.59 | JUC05001992.hg.1 | MAST4 |
| TC05000729.hg.1 | 2.23 | PSR05010436.hg.1 | TMCO6 |
| TC05000729.hg.1 | 2.08 | JUC05005539.hg.1 | TMCO6 |
| TC05000729.hg.1 | 2.06 | JUC05005532.hg.1 | TMCO6 |
| TC05000729.hg.1 | -2.14 | JUC05005528.hg.1 | TMCO6 |
| TC05000910.hg.1 | 2.23 | PSR05013174.hg.1 | LOC10050719 |
| TC05000910.hg.1 | -2.55 | PSR05013178.hg.1 | LOC10050719 |
| TC05000910.hg.1 | -2.75 | JUC05006810.hg.1 | LOC10050719 |
| TC05000910.hg.1 | -2.75 | JUC05006811.hg.1 | LOC10050719 |
| TC06000728.hg.1 | 2.23 | PSR06008723.hg.1 | KCNQ5 |
| TC06000728.hg.1 | -2.01 | JUC06003980.hg.1 | KCNQ5 |
| TC06000728.hg.1 | -2.43 | JUC06003968.hg.1 | KCNQ5 |
| TC06000728.hg.1 | -2.74 | JUC06003971.hg.1 | KCNQ5 |
| TC06000728.hg.1 | -2.97 | PSR06008696.hg.1 | KCNQ5 |
| TC06000728.hg.1 | -3.02 | JUC06003964.hg.1 | KCNQ5 |
| TC06001032.hg.1 | 2.23 | PSR06012111.hg.1 | CCDC28A |
| TC06001032.hg.1 | -3.13 | JUC06005919.hg.1 | CCDC28A |
| TC12000468.hg.1 | 2.23 | JUC12003291.hg.1 | PDE1B |
| TC12000468.hg.1 | 2.17 | PSR12006089.hg.1 | PDE1B |
| TC14001030.hg.1 | 2.23 | JUC14005880.hg.1 | BAZ1A |
| TC14001030.hg.1 | -2.03 | PSR14011781.hg.1 | BAZ1A |
| TC14001030.hg.1 | -2.25 | JUC14005896.hg.1 | BAZ1A |
| TC14001030.hg.1 | -3.16 | JUC14005884.hg.1 | BAZ1A |
| TC14001032.hg.1 | 2.23 | PSR14011807.hg.1 | LOC1005061 |

| | | | |
|-----------------|-------|-------------------|------------|
| TC14001032.hg.1 | 2 | JUC14005904.hg.1 | LOC1005061 |
| TC15001362.hg.1 | 2.23 | JUC15007062.hg.1 | CYP19A1 |
| TC15001362.hg.1 | -2.08 | PSR15013179.hg.1 | CYP19A1 |
| TC15001362.hg.1 | -3.14 | PSR15013171.hg.1 | CYP19A1 |
| TC15001362.hg.1 | -3.16 | PSR15013161.hg.1 | CYP19A1 |
| TC16000664.hg.1 | 2.23 | PSR16009380.hg.1 | KIAA0182 |
| TC16000664.hg.1 | 2.21 | JUC16005248.hg.1 | KIAA0182 |
| TC16000664.hg.1 | 2.14 | PSR16009393.hg.1 | KIAA0182 |
| TC16000664.hg.1 | -2.01 | JUC16005256.hg.1 | KIAA0182 |
| TC16000664.hg.1 | -2.92 | JUC16005261.hg.1 | KIAA0182 |
| TC16000664.hg.1 | -4.13 | JUC16005251.hg.1 | KIAA0182 |
| TC19000142.hg.1 | 2.23 | JUC19001355.hg.1 | SNAPC2 |
| TC19000142.hg.1 | 2.14 | PSR19002256.hg.1 | SNAPC2 |
| TC20000206.hg.1 | 2.23 | PSR20002501.hg.1 | HCK |
| TC20000206.hg.1 | -2.31 | JUC20001354.hg.1 | HCK |
| TC6_qbl_hap6000 | 2.23 | PSR6_qbl_hap60034 | PBX2 |
| TC6_qbl_hap6000 | 2.05 | JUC6_qbl_hap60013 | PBX2 |
| TC21001066.hg.1 | 2.23 | JUC21005228.hg.1 | C21orf33 |
| TC21001066.hg.1 | 2 | PSR21002557.hg.1 | C21orf33 |
| TC21001066.hg.1 | -2.89 | JUC21005239.hg.1 | C21orf33 |
| TC01000836.hg.1 | 2.22 | JUC01007005.hg.1 | GBP1P1 |
| TC01000836.hg.1 | 2.13 | PSR01013300.hg.1 | GBP1P1 |
| TC01000836.hg.1 | 2.06 | JUC01007007.hg.1 | GBP1P1 |
| TC01002774.hg.1 | 2.22 | PSR01043312.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.02 | JUC01023176.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.08 | PSR01043299.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.23 | PSR01043295.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.33 | PSR01043306.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.48 | PSR01043316.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.68 | PSR01043304.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.68 | PSR01043317.hg.1 | PTGER3 |
| TC01002774.hg.1 | -2.89 | PSR01043301.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.2 | PSR01043307.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.3 | JUC01023158.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.33 | PSR01043297.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.61 | PSR01043302.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.79 | JUC01023169.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.89 | JUC01023163.hg.1 | PTGER3 |
| TC01002774.hg.1 | -3.92 | JUC01023160.hg.1 | PTGER3 |
| TC01002774.hg.1 | -4.08 | JUC01023168.hg.1 | PTGER3 |
| TC01006286.hg.1 | 2.22 | JUC01039238.hg.1 | GSTM2 |
| TC01006286.hg.1 | 2.03 | PSR01015116.hg.1 | GSTM2 |
| TC01006286.hg.1 | 2 | PSR01015117.hg.1 | GSTM2 |
| TC03001216.hg.1 | 2.22 | PSR03020916.hg.1 | RFTN1 |
| TC03001216.hg.1 | 2.08 | PSR03020903.hg.1 | RFTN1 |
| TC03001216.hg.1 | 2.01 | PSR03020906.hg.1 | RFTN1 |
| TC03001216.hg.1 | -2.82 | JUC03010430.hg.1 | RFTN1 |
| TC04000274.hg.1 | 2.22 | JUC04001964.hg.1 | ATP10D |
| TC04000274.hg.1 | -2.03 | PSR04003968.hg.1 | ATP10D |
| TC04000274.hg.1 | -2.04 | PSR04003963.hg.1 | ATP10D |
| TC04000274.hg.1 | -2.56 | PSR04003951.hg.1 | ATP10D |
| TC07000112.hg.1 | 2.22 | PSR07001722.hg.1 | AHR |
| TC07000112.hg.1 | -2.63 | JUC07000786.hg.1 | AHR |
| TC08002585.hg.1 | 2.22 | JUC08014746.hg.1 | COPS5 |
| TC08002585.hg.1 | -3.56 | PSR08016646.hg.1 | COPS5 |
| TC0X000190.hg.1 | 2.22 | JUC0X001130.hg.1 | ATP6AP2 |
| TC0X000190.hg.1 | -2.97 | PSR0X002121.hg.1 | ATP6AP2 |
| TC0X000772.hg.1 | 2.22 | JUC0X005153.hg.1 | GDI1 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC0X000772.hg.1 | 2.18 | PSR0X010387.hg.1 | GDI1 |
| TC0X000772.hg.1 | 2.03 | PSR0X010384.hg.1 | GDI1 |
| TC12000765.hg.1 | 2.22 | JUC12005158.hg.1 | APAF1 |
| TC12000765.hg.1 | -2.27 | JUC12005163.hg.1 | APAF1 |
| TC12000765.hg.1 | -3.03 | PSR12009644.hg.1 | APAF1 |
| TC16000538.hg.1 | 2.22 | JUC16004273.hg.1 | PLEKHG4 |
| TC16000538.hg.1 | -2 | PSR16007645.hg.1 | PLEKHG4 |
| TC16000538.hg.1 | -3.32 | PSR16007637.hg.1 | PLEKHG4 |
| TC16000538.hg.1 | -4.66 | JUC16004281.hg.1 | PLEKHG4 |
| TC17001646.hg.1 | 2.22 | PSR17022058.hg.1 | HOXB8 |
| TC17001646.hg.1 | 2.02 | JUC17012328.hg.1 | HOXB8 |
| TC17001646.hg.1 | -2.23 | PSR17022070.hg.1 | HOXB8 |
| TC17001646.hg.1 | -2.41 | PSR17022071.hg.1 | HOXB8 |
| TC17001922.hg.1 | 2.22 | PSR17026143.hg.1 | USP36 |
| TC17001922.hg.1 | -2.05 | JUC17014728.hg.1 | USP36 |
| TC17002909.hg.1 | 2.22 | JUC17019102.hg.1 | MIR10A, HO> |
| TC17002909.hg.1 | 2.03 | JUC17019107.hg.1 | MIR10A, HO> |
| TC17002909.hg.1 | -2.09 | PSR17021989.hg.1 | MIR10A, HO> |
| TC17002909.hg.1 | -2.36 | PSR17022000.hg.1 | MIR10A, HO> |
| TC19001753.hg.1 | 2.22 | JUC19013576.hg.1 | |
| TC19001753.hg.1 | -2.09 | PSR19023883.hg.1 | |
| TC20000565.hg.1 | 2.22 | JUC20004181.hg.1 | CPXM1 |
| TC20000565.hg.1 | -2.09 | PSR20008184.hg.1 | CPXM1 |
| TC21000261.hg.1 | 2.22 | PSR21003236.hg.1 | DIP2A |
| TC21000261.hg.1 | 2.16 | PSR21003293.hg.1 | DIP2A |
| TC21000261.hg.1 | 2.15 | JUC21001751.hg.1 | DIP2A |
| TC21000261.hg.1 | -2.38 | JUC21001760.hg.1 | DIP2A |
| TC6_mann_hap400 | 2.22 | PSR6_mann_hap400 | GABBR1 |
| TC6_mann_hap400 | -2.23 | JUC6_mann_hap400 | GABBR1 |
| TC16000979.hg.1 | 2.22 | JUC16007935.hg.1 | GTF3C1 |
| TC16000979.hg.1 | 2 | PSR16014033.hg.1 | GTF3C1 |
| TC16000979.hg.1 | -2.53 | JUC16007910.hg.1 | GTF3C1 |
| TC01006428.hg.1 | 2.21 | PSR01016782.hg.1 | |
| TC01006428.hg.1 | 2.04 | PSR01016845.hg.1 | |
| TC01006428.hg.1 | 2.01 | PSR01016865.hg.1 | |
| TC01006428.hg.1 | -2.01 | JUC01043184.hg.1 | |
| TC02000149.hg.1 | 2.21 | JUC02000913.hg.1 | HADHB |
| TC02000149.hg.1 | -2.14 | PSR02001727.hg.1 | HADHB |
| TC02001020.hg.1 | 2.21 | JUC02008060.hg.1 | DCAF17 |
| TC02001020.hg.1 | 2.09 | PSR02015090.hg.1 | DCAF17 |
| TC02002773.hg.1 | 2.21 | PSR02044621.hg.1 | USP37 |
| TC02002773.hg.1 | 2.13 | PSR02044605.hg.1 | USP37 |
| TC02002773.hg.1 | 2.09 | PSR02044584.hg.1 | USP37 |
| TC02002773.hg.1 | -2.26 | JUC02023382.hg.1 | USP37 |
| TC03003323.hg.1 | 2.21 | JUC03023106.hg.1 | NCK1 |
| TC03003323.hg.1 | 2.19 | PSR03013350.hg.1 | NCK1 |
| TC04001430.hg.1 | 2.21 | PSR04020011.hg.1 | MANBA |
| TC04001430.hg.1 | 2.03 | PSR04020007.hg.1 | MANBA |
| TC04001430.hg.1 | -2.19 | JUC04010486.hg.1 | MANBA |
| TC05000478.hg.1 | 2.21 | JUC05003752.hg.1 | RGMB |
| TC05000478.hg.1 | 2.03 | JUC05003744.hg.1 | RGMB |
| TC05000478.hg.1 | -2.24 | JUC05003749.hg.1 | RGMB |
| TC05000478.hg.1 | -2.28 | PSR05006829.hg.1 | RGMB |
| TC05000478.hg.1 | -2.3 | PSR05006831.hg.1 | RGMB |
| TC05000478.hg.1 | -2.45 | PSR05006832.hg.1 | RGMB |
| TC05000478.hg.1 | -2.61 | PSR05006835.hg.1 | RGMB |
| TC05000478.hg.1 | -2.75 | JUC05003747.hg.1 | RGMB |
| TC05000478.hg.1 | -23.99 | PSR05006825.hg.1 | RGMB |

| | | | |
|-----------------|-------|------------------|---------|
| TC05000607.hg.1 | 2.21 | JUC05004558.hg.1 | MEGF10 |
| TC05000607.hg.1 | 2.19 | JUC05004563.hg.1 | MEGF10 |
| TC05000607.hg.1 | 2.16 | JUC05004545.hg.1 | MEGF10 |
| TC05000607.hg.1 | 2.04 | PSR05008408.hg.1 | MEGF10 |
| TC05000607.hg.1 | -2.15 | PSR05008435.hg.1 | MEGF10 |
| TC05000607.hg.1 | -4.4 | JUC05004553.hg.1 | MEGF10 |
| TC05001331.hg.1 | 2.21 | JUC05009656.hg.1 | EMB |
| TC05001331.hg.1 | -2.37 | PSR05018797.hg.1 | EMB |
| TC05001331.hg.1 | -2.41 | JUC05009652.hg.1 | EMB |
| TC06002136.hg.1 | 2.21 | PSR06026911.hg.1 | AHI1 |
| TC06002136.hg.1 | 2.06 | PSR06026883.hg.1 | AHI1 |
| TC06002136.hg.1 | 2.03 | JUC06013344.hg.1 | AHI1 |
| TC07000577.hg.1 | 2.21 | PSR07008445.hg.1 | DLX6 |
| TC07000577.hg.1 | -2.25 | PSR07008447.hg.1 | DLX6 |
| TC07000577.hg.1 | -2.71 | PSR07008430.hg.1 | DLX6 |
| TC07000577.hg.1 | -2.74 | PSR07008428.hg.1 | DLX6 |
| TC07000577.hg.1 | -2.96 | JUC07004051.hg.1 | DLX6 |
| TC07000577.hg.1 | -3.79 | JUC07004052.hg.1 | DLX6 |
| TC08000127.hg.1 | 2.21 | JUC08000645.hg.1 | SLC7A2 |
| TC08000127.hg.1 | -3.48 | JUC08000647.hg.1 | SLC7A2 |
| TC08000127.hg.1 | -3.97 | JUC08000648.hg.1 | SLC7A2 |
| TC08000127.hg.1 | -4.11 | JUC08000644.hg.1 | SLC7A2 |
| TC08000127.hg.1 | -4.46 | PSR08001210.hg.1 | SLC7A2 |
| TC08000127.hg.1 | -5.61 | PSR08001198.hg.1 | SLC7A2 |
| TC08000127.hg.1 | -8.5 | PSR08001201.hg.1 | SLC7A2 |
| TC09001475.hg.1 | 2.21 | JUC09009859.hg.1 | SVEP1 |
| TC09001475.hg.1 | -2.15 | JUC09009851.hg.1 | SVEP1 |
| TC09001475.hg.1 | -2.4 | PSR09018231.hg.1 | SVEP1 |
| TC09001475.hg.1 | -2.47 | PSR09018271.hg.1 | SVEP1 |
| TC09001475.hg.1 | -2.56 | JUC09009885.hg.1 | SVEP1 |
| TC09001475.hg.1 | -3.23 | PSR09018290.hg.1 | SVEP1 |
| TC09001475.hg.1 | -3.28 | JUC09009891.hg.1 | SVEP1 |
| TC09001475.hg.1 | -3.83 | PSR09018255.hg.1 | SVEP1 |
| TC09001475.hg.1 | -4.02 | JUC09009852.hg.1 | SVEP1 |
| TC09001475.hg.1 | -4.75 | PSR09018246.hg.1 | SVEP1 |
| TC09001475.hg.1 | -6.15 | JUC09009896.hg.1 | SVEP1 |
| TC09001604.hg.1 | 2.21 | PSR09020110.hg.1 | FAM129B |
| TC09001604.hg.1 | 2.13 | JUC09010899.hg.1 | FAM129B |
| TC09001604.hg.1 | 2.07 | PSR09020115.hg.1 | FAM129B |
| TC09001604.hg.1 | 2.07 | PSR09020133.hg.1 | FAM129B |
| TC09001604.hg.1 | -2.11 | JUC09010901.hg.1 | FAM129B |
| TC0X001311.hg.1 | 2.21 | JUC0X008964.hg.1 | NKRF |
| TC0X001311.hg.1 | -2.06 | PSR0X017600.hg.1 | NKRF |
| TC10000753.hg.1 | 2.21 | JUC10004981.hg.1 | NFKB2 |
| TC10000753.hg.1 | -2.07 | PSR10008908.hg.1 | NFKB2 |
| TC10000753.hg.1 | -2.34 | JUC10004970.hg.1 | NFKB2 |
| TC10000753.hg.1 | -2.35 | JUC10004961.hg.1 | NFKB2 |
| TC10000753.hg.1 | -2.4 | JUC10004974.hg.1 | NFKB2 |
| TC10000753.hg.1 | -2.53 | PSR10008917.hg.1 | NFKB2 |
| TC10000753.hg.1 | -4.23 | JUC10004976.hg.1 | NFKB2 |
| TC10000753.hg.1 | -5.71 | JUC10004980.hg.1 | NFKB2 |
| TC10001004.hg.1 | 2.21 | JUC10007243.hg.1 | ANKRD16 |
| TC10001004.hg.1 | -2.99 | JUC10007245.hg.1 | ANKRD16 |
| TC10001004.hg.1 | -5.08 | PSR10012504.hg.1 | ANKRD16 |
| TC10001004.hg.1 | -9.1 | PSR10012505.hg.1 | ANKRD16 |
| TC12002076.hg.1 | 2.21 | PSR12027360.hg.1 | RSRC2 |
| TC12002076.hg.1 | -2.02 | JUC12015328.hg.1 | RSRC2 |
| TC14000780.hg.1 | 2.21 | PSR14008440.hg.1 | ZNF839 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC14000780.hg.1 | 2.08 | PSR14008443.hg.1 | ZNF839 |
| TC14000780.hg.1 | -2.01 | PSR14008432.hg.1 | ZNF839 |
| TC14000780.hg.1 | -2.38 | JUC14004282.hg.1 | ZNF839 |
| TC17000631.hg.1 | 2.21 | JUC17004369.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.03 | PSR17007869.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.05 | PSR17007868.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.05 | JUC17004356.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.12 | JUC17004372.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.14 | PSR17007870.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.27 | PSR17007833.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.3 | PSR17007865.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.38 | JUC17004358.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -2.66 | PSR17007845.hg.1 | CALCOCO2 |
| TC17000631.hg.1 | -4.57 | JUC17004371.hg.1 | CALCOCO2 |
| TC20001729.hg.1 | 2.21 | JUC20009765.hg.1 | TGIF2 |
| TC20001729.hg.1 | 2.16 | PSR20003741.hg.1 | TGIF2 |
| TC20001729.hg.1 | -2.62 | JUC20009767.hg.1 | TGIF2 |
| TC22000116.hg.1 | 2.21 | PSR22002197.hg.1 | GGTLC2 |
| TC22000116.hg.1 | -4.21 | JUC22000636.hg.1 | GGTLC2 |
| TC01003867.hg.1 | 2.2 | JUC01030817.hg.1 | TAF1A |
| TC01003867.hg.1 | -2.03 | PSR01058822.hg.1 | TAF1A |
| TC01003867.hg.1 | -2.26 | JUC01030823.hg.1 | TAF1A |
| TC02000708.hg.1 | 2.2 | JUC02005824.hg.1 | CHCHD5 |
| TC02000708.hg.1 | 2.14 | PSR02011006.hg.1 | CHCHD5 |
| TC02002770.hg.1 | 2.2 | PSR02044547.hg.1 | TMBIM1 |
| TC02002770.hg.1 | 2.06 | PSR02044534.hg.1 | TMBIM1 |
| TC02002770.hg.1 | 2.06 | JUC02023352.hg.1 | TMBIM1 |
| TC02002770.hg.1 | 2.01 | PSR02044546.hg.1 | TMBIM1 |
| TC05000340.hg.1 | 2.2 | JUC05002505.hg.1 | TNPO1 |
| TC05000340.hg.1 | -2.88 | PSR05004644.hg.1 | TNPO1 |
| TC06000029.hg.1 | 2.2 | JUC06000107.hg.1 | PSMG4 |
| TC06000029.hg.1 | 2.01 | JUC06000099.hg.1 | PSMG4 |
| TC06000029.hg.1 | 2 | JUC06000108.hg.1 | PSMG4 |
| TC06000029.hg.1 | -2.66 | PSR06000249.hg.1 | PSMG4 |
| TC06001593.hg.1 | 2.2 | PSR06019400.hg.1 | LEMD2 |
| TC06001593.hg.1 | -2.24 | JUC06009238.hg.1 | LEMD2 |
| TC07000451.hg.1 | 2.2 | PSR07006110.hg.1 | EIF4H |
| TC07000451.hg.1 | 2.1 | JUC07002959.hg.1 | EIF4H |
| TC07000451.hg.1 | 2.03 | JUC07002956.hg.1 | EIF4H |
| TC07000451.hg.1 | -2.07 | PSR07006109.hg.1 | EIF4H |
| TC08001228.hg.1 | 2.2 | JUC08008210.hg.1 | RPS20, SNOI |
| TC08001228.hg.1 | 2.11 | PSR08015926.hg.1 | RPS20, SNOI |
| TC09000509.hg.1 | 2.2 | JUC09003085.hg.1 | STX17 |
| TC09000509.hg.1 | 2.08 | PSR09005541.hg.1 | STX17 |
| TC09000509.hg.1 | -2 | JUC09003078.hg.1 | STX17 |
| TC09000509.hg.1 | -2.55 | JUC09003087.hg.1 | STX17 |
| TC10001320.hg.1 | 2.2 | JUC10009728.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -2.03 | PSR10016690.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -2.15 | PSR10016691.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -2.24 | PSR10016688.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -2.6 | PSR10016684.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -2.78 | PSR10016677.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -3.14 | PSR10016695.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -3.32 | PSR10016692.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -3.46 | PSR10016672.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -4.28 | PSR10016687.hg.1 | RHOBTB1 |
| TC10001320.hg.1 | -4.91 | JUC10009736.hg.1 | RHOBTB1 |
| TC11001407.hg.1 | 2.2 | PSR11017742.hg.1 | SBF2 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC11001407.hg.1 | 2.01 | JUC11009456.hg.1 | SBF2 |
| TC11001407.hg.1 | -2.35 | JUC11009485.hg.1 | SBF2 |
| TC11002307.hg.1 | 2.2 | JUC11014706.hg.1 | USP28 |
| TC11002307.hg.1 | 2.08 | PSR11027643.hg.1 | USP28 |
| TC11002307.hg.1 | 2.05 | JUC11014725.hg.1 | USP28 |
| TC11002307.hg.1 | -2.28 | JUC11014714.hg.1 | USP28 |
| TC12000936.hg.1 | 2.2 | JUC12006689.hg.1 | PRKAB1 |
| TC12000936.hg.1 | -2.02 | PSR12012140.hg.1 | PRKAB1 |
| TC12003246.hg.1 | 2.2 | PSR12006570.hg.1 | MYL6B |
| TC12003246.hg.1 | -2.75 | JUC12020027.hg.1 | MYL6B |
| TC15002805.hg.1 | 2.2 | JUC15014111.hg.1 | ULK4P1 |
| TC15002805.hg.1 | -2.39 | PSR15010387.hg.1 | ULK4P1 |
| TC15002805.hg.1 | -2.44 | JUC15014107.hg.1 | ULK4P1 |
| TC15002805.hg.1 | -2.97 | PSR15010388.hg.1 | ULK4P1 |
| TC17001302.hg.1 | 2.2 | PSR17017308.hg.1 | KIAA0100 |
| TC17001302.hg.1 | -2.1 | JUC17009783.hg.1 | KIAA0100 |
| TC17001305.hg.1 | 2.2 | PSR17017441.hg.1 | RAB34, NARI |
| TC17001305.hg.1 | 2.06 | PSR17017401.hg.1 | RAB34, NARI |
| TC17001305.hg.1 | 2.04 | JUC17009848.hg.1 | RAB34, NARI |
| TC17001305.hg.1 | 2.01 | PSR17017404.hg.1 | RAB34, NARI |
| TC19000616.hg.1 | 2.2 | PSR19008536.hg.1 | ZNF224 |
| TC19000616.hg.1 | -2.04 | PSR19008538.hg.1 | ZNF224 |
| TC19000616.hg.1 | -4.73 | JUC19005101.hg.1 | ZNF224 |
| TC21000260.hg.1 | 2.2 | JUC21001736.hg.1 | PCNT |
| TC21000260.hg.1 | -2.25 | JUC21001682.hg.1 | PCNT |
| TC21000260.hg.1 | -2.88 | PSR21003178.hg.1 | PCNT |
| TC22000471.hg.1 | 2.2 | JUC22003340.hg.1 | CECR5 |
| TC22000471.hg.1 | -2.12 | PSR22008418.hg.1 | CECR5 |
| TC22000471.hg.1 | -2.27 | PSR22008422.hg.1 | CECR5 |
| TC6_apd_hap1000 | 2.2 | PSR6_apd_hap1001 | MDC1 |
| TC6_apd_hap1000 | 2.02 | PSR6_apd_hap1001 | MDC1 |
| TC6_apd_hap1000 | -2.87 | JUC6_apd_hap1000 | MDC1 |
| TC6_cox_hap2000 | 2.2 | PSR6_cox_hap2002 | MDC1 |
| TC6_cox_hap2000 | 2.02 | PSR6_cox_hap2002 | MDC1 |
| TC6_cox_hap2000 | -2.87 | JUC6_cox_hap2000 | MDC1 |
| TC6_dbb_hap3000 | 2.2 | PSR6_dbb_hap3002 | MDC1 |
| TC6_dbb_hap3000 | 2.02 | PSR6_dbb_hap3002 | MDC1 |
| TC6_dbb_hap3000 | -2.87 | JUC6_dbb_hap3000 | MDC1 |
| TC6_mann_hap4000 | 2.2 | PSR6_mann_hap4000 | MDC1 |
| TC6_mann_hap4000 | 2.02 | PSR6_mann_hap4000 | MDC1 |
| TC6_mann_hap4000 | -2.87 | JUC6_mann_hap4000 | MDC1 |
| TC6_mcf_hap5000 | 2.2 | PSR6_mcf_hap5002 | MDC1 |
| TC6_mcf_hap5000 | 2.02 | PSR6_mcf_hap5002 | MDC1 |
| TC6_mcf_hap5000 | -2.87 | JUC6_mcf_hap5000 | MDC1 |
| TC6_ssto_hap7000 | 2.2 | PSR6_ssto_hap7002 | MDC1 |
| TC6_ssto_hap7000 | 2.02 | PSR6_ssto_hap7002 | MDC1 |
| TC6_ssto_hap7000 | -2.87 | JUC6_ssto_hap7000 | MDC1 |
| TC20001739.hg.1 | 2.2 | JUC20009880.hg.1 | LINC00266-1 |
| TC20001739.hg.1 | 2 | PSR20007730.hg.1 | LINC00266-1 |
| TC01000046.hg.1 | 2.19 | PSR01000653.hg.1 | MIB2 |
| TC01000046.hg.1 | 2.14 | JUC01000318.hg.1 | MIB2 |
| TC01000046.hg.1 | 2.1 | JUC01000334.hg.1 | MIB2 |
| TC01000046.hg.1 | -2.15 | PSR01000603.hg.1 | MIB2 |
| TC01000046.hg.1 | -2.88 | PSR01000600.hg.1 | MIB2 |
| TC01000707.hg.1 | 2.19 | PSR01011313.hg.1 | USP1 |
| TC01000707.hg.1 | 2.05 | PSR01011312.hg.1 | USP1 |
| TC01000707.hg.1 | -2.02 | JUC01005847.hg.1 | USP1 |
| TC01002847.hg.1 | 2.19 | JUC01023836.hg.1 | GBP1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01002847.hg.1 | -2.2 | PSR01044368.hg.1 | GBP1 |
| TC01002847.hg.1 | -2.47 | PSR01044378.hg.1 | GBP1 |
| TC01002847.hg.1 | -4.03 | JUC01023826.hg.1 | GBP1 |
| TC01002860.hg.1 | 2.19 | PSR01044516.hg.1 | LOC149351 |
| TC01002860.hg.1 | 2.09 | JUC01023879.hg.1 | LOC149351 |
| TC02000862.hg.1 | 2.19 | JUC02006810.hg.1 | C2orf27A |
| TC02000862.hg.1 | -2.16 | PSR02012847.hg.1 | C2orf27A |
| TC02000862.hg.1 | -2.69 | PSR02012853.hg.1 | C2orf27A |
| TC02000862.hg.1 | -4.73 | JUC02006811.hg.1 | C2orf27A |
| TC02000862.hg.1 | -7.46 | JUC02006813.hg.1 | C2orf27A |
| TC02001168.hg.1 | 2.19 | PSR02017749.hg.1 | NIF3L1 |
| TC02001168.hg.1 | 2.1 | JUC02009482.hg.1 | NIF3L1 |
| TC02002278.hg.1 | 2.19 | JUC02018975.hg.1 | ERCC3 |
| TC02002278.hg.1 | 2.11 | PSR02036608.hg.1 | ERCC3 |
| TC02002278.hg.1 | -2.01 | PSR02036614.hg.1 | ERCC3 |
| TC02002284.hg.1 | 2.19 | JUC02019048.hg.1 | LIMS2 |
| TC02002284.hg.1 | 2.15 | JUC02019051.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.27 | PSR02036755.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.37 | PSR02036708.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.38 | PSR02036753.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.49 | PSR02036740.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.58 | PSR02036758.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.58 | PSR02036759.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.64 | PSR02036734.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.64 | PSR02036754.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.69 | PSR02036723.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.78 | PSR02036722.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.94 | PSR02036729.hg.1 | LIMS2 |
| TC02002284.hg.1 | -2.98 | PSR02036726.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.01 | PSR02036761.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.05 | PSR02036748.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.15 | PSR02036751.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.2 | JUC02019047.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.22 | PSR02036752.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.29 | PSR02036750.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.36 | PSR02036744.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.51 | PSR02036749.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.59 | PSR02036735.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.61 | PSR02036725.hg.1 | LIMS2 |
| TC02002284.hg.1 | -3.67 | PSR02036738.hg.1 | LIMS2 |
| TC02002284.hg.1 | -4.03 | PSR02036720.hg.1 | LIMS2 |
| TC02002284.hg.1 | -5.11 | PSR02036730.hg.1 | LIMS2 |
| TC03000715.hg.1 | 2.19 | PSR03012864.hg.1 | DNAJC13 |
| TC03000715.hg.1 | 2.05 | JUC03006491.hg.1 | DNAJC13 |
| TC03000715.hg.1 | -2.55 | JUC03006471.hg.1 | DNAJC13 |
| TC03000715.hg.1 | -3.08 | JUC03006515.hg.1 | DNAJC13 |
| TC04001220.hg.1 | 2.19 | PSR04016690.hg.1 | PPAT |
| TC04001220.hg.1 | -2.08 | JUC04008899.hg.1 | PPAT |
| TC04001220.hg.1 | -2.53 | PSR04016682.hg.1 | PPAT |
| TC04001220.hg.1 | -2.91 | JUC04008897.hg.1 | PPAT |
| TC06000423.hg.1 | 2.19 | PSR06004995.hg.1 | PHF1 |
| TC06000423.hg.1 | -2.38 | JUC06001944.hg.1 | PHF1 |
| TC06001552.hg.1 | 2.19 | JUC06008747.hg.1 | MIR1236, RD |
| TC06001552.hg.1 | 2.06 | PSR06018097.hg.1 | MIR1236, RD |
| TC06001668.hg.1 | 2.19 | PSR06019824.hg.1 | SRPK1 |
| TC06001668.hg.1 | 2.15 | JUC06009377.hg.1 | SRPK1 |
| TC06001668.hg.1 | 2.03 | PSR06019796.hg.1 | SRPK1 |
| TC07001695.hg.1 | 2.19 | JUC07012866.hg.1 | MYL10 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC07001695.hg.1 | 2.07 | PSR07026204.hg.1 | MYL10 |
| TC07001695.hg.1 | -2.04 | PSR07026205.hg.1 | MYL10 |
| TC07001695.hg.1 | -2.37 | JUC07012869.hg.1 | MYL10 |
| TC09000247.hg.1 | 2.19 | JUC09001445.hg.1 | CBWD7 |
| TC09000247.hg.1 | 2.1 | JUC09001433.hg.1 | CBWD7 |
| TC09000247.hg.1 | -2.06 | PSR09002778.hg.1 | CBWD7 |
| TC09000247.hg.1 | -2.24 | JUC09001432.hg.1 | CBWD7 |
| TC09000247.hg.1 | -2.26 | PSR09002774.hg.1 | CBWD7 |
| TC09000247.hg.1 | -2.93 | PSR09002796.hg.1 | CBWD7 |
| TC09001628.hg.1 | 2.19 | PSR09020681.hg.1 | GOLGA2 |
| TC09001628.hg.1 | -2.52 | JUC09011096.hg.1 | GOLGA2 |
| TC0X001061.hg.1 | 2.19 | JUC0X007162.hg.1 | KDM5C |
| TC0X001061.hg.1 | 2.16 | JUC0X007140.hg.1 | KDM5C |
| TC0X001061.hg.1 | 2.07 | PSR0X014306.hg.1 | KDM5C |
| TC10002930.hg.1 | 2.19 | PSR10020458.hg.1 | ERLIN1 |
| TC10002930.hg.1 | -2.66 | JUC10017067.hg.1 | ERLIN1 |
| TC12000840.hg.1 | 2.19 | PSR12010744.hg.1 | DAO |
| TC12000840.hg.1 | 2.01 | JUC12005913.hg.1 | DAO |
| TC12001082.hg.1 | 2.19 | PSR12014296.hg.1 | KDM5A |
| TC12001082.hg.1 | 2.06 | JUC12007866.hg.1 | KDM5A |
| TC12001082.hg.1 | 2 | JUC12007858.hg.1 | KDM5A |
| TC12001082.hg.1 | -2.18 | JUC12007842.hg.1 | KDM5A |
| TC14001350.hg.1 | 2.19 | JUC14007819.hg.1 | SNW1 |
| TC14001350.hg.1 | 2.03 | PSR14015385.hg.1 | SNW1 |
| TC14001350.hg.1 | -2.03 | JUC14007825.hg.1 | SNW1 |
| TC16000524.hg.1 | 2.19 | PSR16007303.hg.1 | CES2 |
| TC16000524.hg.1 | -3.58 | JUC16004120.hg.1 | CES2 |
| TC17001923.hg.1 | 2.19 | JUC17014757.hg.1 | LOC1006535 |
| TC17001923.hg.1 | -2.04 | PSR17026190.hg.1 | LOC1006535 |
| TC18000412.hg.1 | 2.19 | JUC18002816.hg.1 | TMEM241 |
| TC18000412.hg.1 | -2.01 | PSR18004162.hg.1 | TMEM241 |
| TC18000412.hg.1 | -2.74 | JUC18002813.hg.1 | TMEM241 |
| TC18000412.hg.1 | -3.13 | JUC18002795.hg.1 | TMEM241 |
| TC20000365.hg.1 | 2.19 | JUC20002897.hg.1 | CD40 |
| TC20000365.hg.1 | -2.12 | PSR20005317.hg.1 | CD40 |
| TC20000365.hg.1 | -2.19 | PSR20005328.hg.1 | CD40 |
| TC20000365.hg.1 | -2.36 | JUC20002887.hg.1 | CD40 |
| TC20000365.hg.1 | -2.39 | JUC20002888.hg.1 | CD40 |
| TC20000365.hg.1 | -2.66 | PSR20005326.hg.1 | CD40 |
| TC20000424.hg.1 | 2.19 | JUC20003235.hg.1 | DOK5 |
| TC20000424.hg.1 | -2.46 | JUC20003231.hg.1 | DOK5 |
| TC20000424.hg.1 | -2.62 | PSR20005889.hg.1 | DOK5 |
| TC4_gl000194_ran | 2.19 | JUC4_gl000194_ran | MAFIP, TEKT |
| TC4_gl000194_ran | -2.65 | PSR4_gl000194_ran | MAFIP, TEKT |
| TC6_ssto_hap7000 | 2.19 | PSR6_ssto_hap7001 | PHF1 |
| TC6_ssto_hap7000 | -2.38 | JUC6_ssto_hap7000 | PHF1 |
| TC01001164.hg.1 | 2.18 | JUC01009864.hg.1 | FAM91A2, LC |
| TC01001164.hg.1 | 2.06 | JUC01009873.hg.1 | FAM91A2, LC |
| TC01001164.hg.1 | -2.54 | PSR01017912.hg.1 | FAM91A2, LC |
| TC01002144.hg.1 | 2.18 | JUC01017701.hg.1 | CHD5 |
| TC01002144.hg.1 | -2.11 | PSR01033010.hg.1 | CHD5 |
| TC01002144.hg.1 | -2.43 | JUC01017722.hg.1 | CHD5 |
| TC01002144.hg.1 | -2.56 | JUC01017707.hg.1 | CHD5 |
| TC01002580.hg.1 | 2.18 | PSR01040111.hg.1 | EBNA1BP2 |
| TC01002580.hg.1 | 2.04 | JUC01021531.hg.1 | EBNA1BP2 |
| TC01002580.hg.1 | -2.12 | JUC01021540.hg.1 | EBNA1BP2 |
| TC01004040.hg.1 | 2.18 | PSR01061046.hg.1 | AKT3 |
| TC01004040.hg.1 | 2.17 | PSR01061048.hg.1 | AKT3 |

| | | | |
|-----------------|--------|------------------|----------|
| TC01004040.hg.1 | -3.95 | JUC01031963.hg.1 | AKT3 |
| TC02000732.hg.1 | 2.18 | JUC02006023.hg.1 | RABL2A |
| TC02000732.hg.1 | -2.17 | PSR02011412.hg.1 | RABL2A |
| TC02000732.hg.1 | -2.3 | JUC02006029.hg.1 | RABL2A |
| TC02000732.hg.1 | -3.04 | JUC02006026.hg.1 | RABL2A |
| TC02000928.hg.1 | 2.18 | PSR02013598.hg.1 | LYPD6B |
| TC02000928.hg.1 | -2.07 | PSR02013593.hg.1 | LYPD6B |
| TC02000928.hg.1 | -2.07 | JUC02007275.hg.1 | LYPD6B |
| TC02000928.hg.1 | -2.39 | JUC02007283.hg.1 | LYPD6B |
| TC03000113.hg.1 | 2.18 | PSR03002280.hg.1 | KAT2B |
| TC03000113.hg.1 | -2.91 | JUC03001249.hg.1 | KAT2B |
| TC03001612.hg.1 | 2.18 | PSR03029076.hg.1 | ABI3BP |
| TC03001612.hg.1 | 2.04 | PSR03029095.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.05 | JUC03014345.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.07 | JUC03014318.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.08 | PSR03029094.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.09 | PSR03029096.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.09 | JUC03014354.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.12 | JUC03014383.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.14 | JUC03014362.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.15 | PSR03029091.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.39 | JUC03014300.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.66 | JUC03014344.hg.1 | ABI3BP |
| TC03001612.hg.1 | -2.85 | JUC03014382.hg.1 | ABI3BP |
| TC03001612.hg.1 | -3.69 | JUC03014366.hg.1 | ABI3BP |
| TC08000109.hg.1 | 2.18 | JUC08000545.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -2.04 | PSR08001021.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -2.88 | PSR08001032.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -3.11 | JUC08000538.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -3.61 | PSR08001019.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -4.22 | PSR08001022.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -5.58 | PSR08001023.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -9.65 | JUC08000536.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -9.9 | JUC08000544.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -12.22 | PSR08001026.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -12.32 | PSR08001018.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -14.55 | PSR08001016.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -14.78 | JUC08000541.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -15.42 | JUC08000542.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -15.92 | PSR08001028.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -16.1 | PSR08001015.hg.1 | KIAA1456 |
| TC08000109.hg.1 | -25.42 | PSR08001013.hg.1 | KIAA1456 |
| TC09000579.hg.1 | 2.18 | JUC09003623.hg.1 | ZNF618 |
| TC09000579.hg.1 | -2.51 | PSR09006529.hg.1 | ZNF618 |
| TC09001642.hg.1 | 2.18 | PSR09020915.hg.1 | SH3GLB2 |
| TC09001642.hg.1 | 2.01 | JUC09011215.hg.1 | SH3GLB2 |
| TC11000405.hg.1 | 2.18 | JUC11002780.hg.1 | NR1H3 |
| TC11000405.hg.1 | 2.09 | JUC11002784.hg.1 | NR1H3 |
| TC11000405.hg.1 | 2.03 | JUC11002777.hg.1 | NR1H3 |
| TC11000405.hg.1 | -2.16 | PSR11005202.hg.1 | NR1H3 |
| TC11000405.hg.1 | -2.19 | PSR11005144.hg.1 | NR1H3 |
| TC11001976.hg.1 | 2.18 | PSR11023721.hg.1 | PC |
| TC11001976.hg.1 | 2.13 | JUC11012526.hg.1 | PC |
| TC11001976.hg.1 | -2.01 | PSR11023743.hg.1 | PC |
| TC11001976.hg.1 | -2.13 | JUC11012534.hg.1 | PC |
| TC11001976.hg.1 | -2.7 | JUC11012536.hg.1 | PC |
| TC11001976.hg.1 | -3.26 | JUC11012528.hg.1 | PC |
| TC12000414.hg.1 | 2.18 | PSR12005289.hg.1 | NR4A1 |

| | | | |
|-----------------|--------|------------------|-------------|
| TC12000414.hg.1 | -2.23 | JUC12002931.hg.1 | NR4A1 |
| TC12000414.hg.1 | -2.63 | JUC12002926.hg.1 | NR4A1 |
| TC12002034.hg.1 | 2.18 | PSR12026749.hg.1 | GCN1L1 |
| TC12002034.hg.1 | -2.17 | JUC12014991.hg.1 | GCN1L1 |
| TC12002034.hg.1 | -3.14 | JUC12014982.hg.1 | GCN1L1 |
| TC15000575.hg.1 | 2.18 | PSR15004565.hg.1 | TLN2 |
| TC15000575.hg.1 | 2.08 | PSR15004528.hg.1 | TLN2 |
| TC15000575.hg.1 | -2.1 | PSR15004549.hg.1 | TLN2 |
| TC15000575.hg.1 | -2.14 | JUC15002211.hg.1 | TLN2 |
| TC15000575.hg.1 | -2.16 | JUC15002176.hg.1 | TLN2 |
| TC15000575.hg.1 | -2.2 | JUC15002207.hg.1 | TLN2 |
| TC15000575.hg.1 | -2.61 | JUC15002226.hg.1 | TLN2 |
| TC15000575.hg.1 | -3.53 | JUC15002209.hg.1 | TLN2 |
| TC15001098.hg.1 | 2.18 | PSR15010046.hg.1 | GOLGA8G, C |
| TC15001098.hg.1 | -2.4 | JUC15005302.hg.1 | GOLGA8G, C |
| TC16000382.hg.1 | 2.18 | JUC16003142.hg.1 | ZNF720 |
| TC16000382.hg.1 | -2.35 | PSR16005697.hg.1 | ZNF720 |
| TC16000382.hg.1 | -2.81 | PSR16005695.hg.1 | ZNF720 |
| TC16002072.hg.1 | 2.18 | JUC16013684.hg.1 | SRCAP |
| TC16002072.hg.1 | 2.06 | PSR16005154.hg.1 | SRCAP |
| TC16002072.hg.1 | 2.01 | JUC16013702.hg.1 | SRCAP |
| TC17001298.hg.1 | 2.18 | JUC17009710.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | 2.02 | JUC17009708.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -2.07 | PSR17017174.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -2.09 | JUC17009712.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -2.15 | PSR17017168.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -2.31 | JUC17009715.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -2.59 | JUC17009722.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -2.87 | JUC17009731.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -4.34 | JUC17009721.hg.1 | SGK494, SPA |
| TC17001298.hg.1 | -8.22 | JUC17009704.hg.1 | SGK494, SPA |
| TC19000455.hg.1 | 2.18 | PSR19005951.hg.1 | SCN1B |
| TC19000455.hg.1 | 2.14 | PSR19005955.hg.1 | SCN1B |
| TC19000455.hg.1 | -2.13 | JUC19003545.hg.1 | SCN1B |
| TC19001293.hg.1 | 2.18 | PSR19018393.hg.1 | COMP |
| TC19001293.hg.1 | 2.18 | JUC19010735.hg.1 | COMP |
| TC19001293.hg.1 | -2.01 | JUC19010737.hg.1 | COMP |
| TC19001293.hg.1 | -2.66 | JUC19010738.hg.1 | COMP |
| TC19001293.hg.1 | -3.75 | PSR19018379.hg.1 | COMP |
| TC19001293.hg.1 | -3.95 | JUC19010734.hg.1 | COMP |
| TC19001293.hg.1 | -4.3 | JUC19010745.hg.1 | COMP |
| TC19001293.hg.1 | -13.83 | PSR19018401.hg.1 | COMP |
| TC01000232.hg.1 | 2.17 | JUC01002003.hg.1 | PADI4 |
| TC01000232.hg.1 | 2.01 | PSR01003715.hg.1 | PADI4 |
| TC01002317.hg.1 | 2.17 | PSR01035474.hg.1 | KIF17 |
| TC01002317.hg.1 | 2.16 | PSR01035481.hg.1 | KIF17 |
| TC01002317.hg.1 | 2.04 | PSR01035485.hg.1 | KIF17 |
| TC01002317.hg.1 | 2.02 | JUC01019064.hg.1 | KIF17 |
| TC03003363.hg.1 | 2.17 | PSR03011488.hg.1 | PDIA5 |
| TC03003363.hg.1 | 2.1 | JUC03023854.hg.1 | PDIA5 |
| TC03003363.hg.1 | -2.03 | JUC03023851.hg.1 | PDIA5 |
| TC05003418.hg.1 | 2.17 | JUC05019530.hg.1 | LOC1005076 |
| TC05003418.hg.1 | -2.13 | PSR05015711.hg.1 | LOC1005076 |
| TC07000030.hg.1 | 2.17 | PSR07000365.hg.1 | EIF3B |
| TC07000030.hg.1 | 2.11 | JUC07000130.hg.1 | EIF3B |
| TC07000030.hg.1 | -2.04 | JUC07000133.hg.1 | EIF3B |
| TC07000030.hg.1 | -3.31 | JUC07000132.hg.1 | EIF3B |
| TC08000975.hg.1 | 2.17 | PSR08012291.hg.1 | FAM167A |

| | | | |
|-----------------|-------|------------------|-------------|
| TC08000975.hg.1 | -3.22 | PSR08012297.hg.1 | FAM167A |
| TC08000975.hg.1 | -5.46 | PSR08012299.hg.1 | FAM167A |
| TC08000975.hg.1 | -5.5 | PSR08012300.hg.1 | FAM167A |
| TC08000975.hg.1 | -5.65 | PSR08012295.hg.1 | FAM167A |
| TC08000975.hg.1 | -5.86 | PSR08012298.hg.1 | FAM167A |
| TC08000975.hg.1 | -6.09 | JUC08006359.hg.1 | FAM167A |
| TC08001081.hg.1 | 2.17 | JUC08007103.hg.1 | CLU |
| TC08001081.hg.1 | 2.15 | PSR08013864.hg.1 | CLU |
| TC08001081.hg.1 | -2.03 | PSR08013810.hg.1 | CLU |
| TC08001081.hg.1 | -2.35 | PSR08013836.hg.1 | CLU |
| TC08001081.hg.1 | -2.8 | PSR08013855.hg.1 | CLU |
| TC08001081.hg.1 | -3.1 | PSR08013854.hg.1 | CLU |
| TC08001081.hg.1 | -3.12 | PSR08013853.hg.1 | CLU |
| TC11001536.hg.1 | 2.17 | JUC11010266.hg.1 | CSTF3 |
| TC11001536.hg.1 | 2.13 | JUC11010260.hg.1 | CSTF3 |
| TC11001536.hg.1 | 2.07 | JUC11010257.hg.1 | CSTF3 |
| TC11001536.hg.1 | 2.06 | PSR11019274.hg.1 | CSTF3 |
| TC11001536.hg.1 | 2.03 | JUC11010261.hg.1 | CSTF3 |
| TC12000219.hg.1 | 2.17 | PSR12002684.hg.1 | PLEKHA5 |
| TC12000219.hg.1 | 2.1 | PSR12002705.hg.1 | PLEKHA5 |
| TC12000219.hg.1 | 2.1 | JUC12001293.hg.1 | PLEKHA5 |
| TC12000219.hg.1 | -2.45 | JUC12001307.hg.1 | PLEKHA5 |
| TC12003236.hg.1 | 2.17 | JUC12019844.hg.1 | CLEC2D |
| TC12003236.hg.1 | -2.66 | PSR12001941.hg.1 | CLEC2D |
| TC14000495.hg.1 | 2.17 | JUC14003202.hg.1 | NRXN3 |
| TC14000495.hg.1 | -2.5 | PSR14006351.hg.1 | NRXN3 |
| TC14000495.hg.1 | -2.52 | PSR14006352.hg.1 | NRXN3 |
| TC14000495.hg.1 | -2.62 | PSR14006346.hg.1 | NRXN3 |
| TC14000495.hg.1 | -3.45 | JUC14003193.hg.1 | NRXN3 |
| TC14000495.hg.1 | -3.94 | JUC14003207.hg.1 | NRXN3 |
| TC14000495.hg.1 | -4.27 | PSR14006347.hg.1 | NRXN3 |
| TC14000495.hg.1 | -4.41 | JUC14003174.hg.1 | NRXN3 |
| TC14000495.hg.1 | -4.9 | PSR14006354.hg.1 | NRXN3 |
| TC14000495.hg.1 | -4.91 | PSR14006342.hg.1 | NRXN3 |
| TC14000495.hg.1 | -4.97 | PSR14006344.hg.1 | NRXN3 |
| TC14000495.hg.1 | -5.62 | PSR14006356.hg.1 | NRXN3 |
| TC14000495.hg.1 | -6.01 | PSR14006348.hg.1 | NRXN3 |
| TC14000495.hg.1 | -6.25 | PSR14006353.hg.1 | NRXN3 |
| TC14000495.hg.1 | -6.34 | JUC14003178.hg.1 | NRXN3 |
| TC14000495.hg.1 | -6.86 | PSR14006345.hg.1 | NRXN3 |
| TC14000495.hg.1 | -7.49 | PSR14006359.hg.1 | NRXN3 |
| TC14000495.hg.1 | -8.25 | JUC14003208.hg.1 | NRXN3 |
| TC14000645.hg.1 | 2.17 | PSR14007954.hg.1 | MEG3 |
| TC14000645.hg.1 | 2.01 | JUC14004070.hg.1 | MEG3 |
| TC14000645.hg.1 | 2 | JUC14004074.hg.1 | MEG3 |
| TC14000645.hg.1 | -3.3 | JUC14004065.hg.1 | MEG3 |
| TC17001011.hg.1 | 2.17 | PSR17013526.hg.1 | ITGAE |
| TC17001011.hg.1 | -2.48 | JUC17007659.hg.1 | ITGAE |
| TC17001107.hg.1 | 2.17 | JUC17008476.hg.1 | TMEM107, SI |
| TC17001107.hg.1 | -2.11 | PSR17014889.hg.1 | TMEM107, SI |
| TC20000339.hg.1 | 2.17 | JUC20002694.hg.1 | STK4 |
| TC20000339.hg.1 | 2.14 | PSR20004866.hg.1 | STK4 |
| TC20000339.hg.1 | 2.08 | JUC20002688.hg.1 | STK4 |
| TC20000339.hg.1 | -2.17 | JUC20002697.hg.1 | STK4 |
| TC04000528.hg.1 | 2.17 | JUC04004077.hg.1 | |
| TC04000528.hg.1 | 2 | PSR04007790.hg.1 | |
| TC01001305.hg.1 | 2.16 | JUC01010833.hg.1 | DAP3 |
| TC01001305.hg.1 | -2.02 | PSR01020293.hg.1 | DAP3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01001305.hg.1 | -2.08 | PSR01020295.hg.1 | DAP3 |
| TC02000158.hg.1 | 2.16 | PSR02001932.hg.1 | TMEM214 |
| TC02000158.hg.1 | 2.07 | JUC02001011.hg.1 | TMEM214 |
| TC02000158.hg.1 | 2.02 | PSR02001928.hg.1 | TMEM214 |
| TC02000756.hg.1 | 2.16 | PSR02011873.hg.1 | PTPN4 |
| TC02000756.hg.1 | 2.03 | JUC02006281.hg.1 | PTPN4 |
| TC02000756.hg.1 | 2.01 | PSR02011853.hg.1 | PTPN4 |
| TC05000619.hg.1 | 2.16 | JUC05004684.hg.1 | CHSY3 |
| TC05000619.hg.1 | 2.05 | PSR05008628.hg.1 | CHSY3 |
| TC05000619.hg.1 | 2.05 | JUC05004687.hg.1 | CHSY3 |
| TC06000161.hg.1 | 2.16 | JUC06000829.hg.1 | TRIM38 |
| TC06000161.hg.1 | -3.24 | PSR06001645.hg.1 | TRIM38 |
| TC06002200.hg.1 | 2.16 | JUC06013769.hg.1 | STXBP5-AS1 |
| TC06002200.hg.1 | -2.31 | JUC06013770.hg.1 | STXBP5-AS1 |
| TC06002200.hg.1 | -2.41 | PSR06027594.hg.1 | STXBP5-AS1 |
| TC06002200.hg.1 | -2.54 | PSR06027607.hg.1 | STXBP5-AS1 |
| TC06002200.hg.1 | -3.97 | PSR06027590.hg.1 | STXBP5-AS1 |
| TC06002200.hg.1 | -4.41 | JUC06013759.hg.1 | STXBP5-AS1 |
| TC06002200.hg.1 | -4.45 | JUC06013761.hg.1 | STXBP5-AS1 |
| TC07000954.hg.1 | 2.16 | JUC07007043.hg.1 | |
| TC07000954.hg.1 | -2.74 | PSR07014598.hg.1 | |
| TC07001747.hg.1 | 2.16 | PSR07027193.hg.1 | LAMB1 |
| TC07001747.hg.1 | 2.1 | JUC07013341.hg.1 | LAMB1 |
| TC08000538.hg.1 | 2.16 | PSR08007310.hg.1 | WWP1 |
| TC08000538.hg.1 | -2.2 | JUC08003593.hg.1 | WWP1 |
| TC09000308.hg.1 | 2.16 | JUC09001641.hg.1 | CBWD3, CBV |
| TC09000308.hg.1 | -2.19 | PSR09003139.hg.1 | CBWD3, CBV |
| TC09000308.hg.1 | -2.27 | JUC09001627.hg.1 | CBWD3, CBV |
| TC09000308.hg.1 | -2.36 | PSR09003148.hg.1 | CBWD3, CBV |
| TC09000308.hg.1 | -2.49 | PSR09003153.hg.1 | CBWD3, CBV |
| TC09000308.hg.1 | -3.98 | JUC09001629.hg.1 | CBWD3, CBV |
| TC09000323.hg.1 | 2.16 | JUC09001780.hg.1 | MAMDC2 |
| TC09000323.hg.1 | 2.04 | JUC09001788.hg.1 | MAMDC2 |
| TC09000323.hg.1 | -2.18 | JUC09001781.hg.1 | MAMDC2 |
| TC09000323.hg.1 | -2.8 | JUC09001790.hg.1 | MAMDC2 |
| TC09000323.hg.1 | -3.38 | PSR09003409.hg.1 | MAMDC2 |
| TC09000323.hg.1 | -3.55 | PSR09003395.hg.1 | MAMDC2 |
| TC10000863.hg.1 | 2.16 | JUC10005843.hg.1 | FAM45A, FAM |
| TC10000863.hg.1 | 2.16 | JUC10005853.hg.1 | FAM45A, FAM |
| TC10000863.hg.1 | -2.06 | PSR10010422.hg.1 | FAM45A, FAM |
| TC10001361.hg.1 | 2.16 | JUC10010036.hg.1 | SAR1A |
| TC10001361.hg.1 | 2.08 | PSR10017199.hg.1 | SAR1A |
| TC17000155.hg.1 | 2.16 | PSR17002202.hg.1 | MAP2K4 |
| TC17000155.hg.1 | -2.66 | JUC17001324.hg.1 | MAP2K4 |
| TC18000282.hg.1 | 2.16 | JUC18002246.hg.1 | METTL4 |
| TC18000282.hg.1 | -2.04 | PSR18003330.hg.1 | METTL4 |
| TC18000282.hg.1 | -2.76 | JUC18002242.hg.1 | METTL4 |
| TC20000603.hg.1 | 2.16 | PSR20008781.hg.1 | FERMT1 |
| TC20000603.hg.1 | -2.54 | JUC20004532.hg.1 | FERMT1 |
| TC20000893.hg.1 | 2.16 | JUC20006314.hg.1 | PLTP |
| TC20000893.hg.1 | -2.05 | PSR20012170.hg.1 | PLTP |
| TC20000893.hg.1 | -2.08 | JUC20006312.hg.1 | PLTP |
| TC20000893.hg.1 | -2.14 | JUC20006305.hg.1 | PLTP |
| TC20000893.hg.1 | -2.7 | JUC20006297.hg.1 | PLTP |
| TC20000893.hg.1 | -3.72 | PSR20012162.hg.1 | PLTP |
| TC20000893.hg.1 | -3.83 | PSR20012192.hg.1 | PLTP |
| TC20000893.hg.1 | -4 | PSR20012180.hg.1 | PLTP |
| TC20000893.hg.1 | -4.38 | PSR20012179.hg.1 | PLTP |

| | | | |
|----------------------|--------|-----------------------|----------|
| TC20000893.hg.1 | -4.56 | JUC20006306.hg.1 | PLTP |
| TC20000893.hg.1 | -4.64 | PSR20012186.hg.1 | PLTP |
| TC20000893.hg.1 | -4.92 | JUC20006307.hg.1 | PLTP |
| TC21001072.hg.1 | 2.16 | PSR21004460.hg.1 | C21orf59 |
| TC21001072.hg.1 | -2.42 | JUC21005337.hg.1 | C21orf59 |
| TCUn_gl00022300.hg.1 | 2.16 | PSRUn_gl00022300.hg.1 | ZNF84 |
| TCUn_gl00022300.hg.1 | 2.07 | JUCUn_gl00022300.hg.1 | ZNF84 |
| TC01000074.hg.1 | 2.15 | PSR01001186.hg.1 | DFFB |
| TC01000074.hg.1 | -4.39 | JUC01000621.hg.1 | DFFB |
| TC01001026.hg.1 | 2.15 | JUC01008520.hg.1 | TTF2 |
| TC01001026.hg.1 | -2.03 | JUC01008517.hg.1 | TTF2 |
| TC01001026.hg.1 | -2.17 | PSR01016299.hg.1 | TTF2 |
| TC01001026.hg.1 | -2.42 | JUC01008533.hg.1 | TTF2 |
| TC01002452.hg.1 | 2.15 | JUC01020260.hg.1 | FABP3 |
| TC01002452.hg.1 | -2.27 | PSR01037734.hg.1 | FABP3 |
| TC01002452.hg.1 | -2.49 | JUC01020263.hg.1 | FABP3 |
| TC02001789.hg.1 | 2.15 | JUC02015101.hg.1 | THADA |
| TC02001789.hg.1 | 2.03 | PSR02028740.hg.1 | THADA |
| TC02001789.hg.1 | -2.02 | JUC02015098.hg.1 | THADA |
| TC02001789.hg.1 | -2.09 | PSR02028747.hg.1 | THADA |
| TC02001789.hg.1 | -2.1 | JUC02015053.hg.1 | THADA |
| TC02001789.hg.1 | -2.27 | JUC02015088.hg.1 | THADA |
| TC02001789.hg.1 | -2.68 | JUC02015092.hg.1 | THADA |
| TC03000965.hg.1 | 2.15 | JUC03008491.hg.1 | FXR1 |
| TC03000965.hg.1 | -2.09 | JUC03008475.hg.1 | FXR1 |
| TC03000965.hg.1 | -2.15 | PSR03016670.hg.1 | FXR1 |
| TC03000965.hg.1 | -2.15 | PSR03016710.hg.1 | FXR1 |
| TC04001300.hg.1 | 2.15 | JUC04009457.hg.1 | G3BP2 |
| TC04001300.hg.1 | 2.08 | PSR04017738.hg.1 | G3BP2 |
| TC05000191.hg.1 | 2.15 | PSR05002265.hg.1 | GHR |
| TC05000191.hg.1 | 2.09 | PSR05002251.hg.1 | GHR |
| TC05000191.hg.1 | 2.07 | PSR05002256.hg.1 | GHR |
| TC05000191.hg.1 | -2.37 | PSR05002267.hg.1 | GHR |
| TC05000191.hg.1 | -2.55 | JUC05001274.hg.1 | GHR |
| TC05003403.hg.1 | 2.15 | JUC05019238.hg.1 | ZDHHC11 |
| TC05003403.hg.1 | -2.47 | JUC05019248.hg.1 | ZDHHC11 |
| TC05003403.hg.1 | -2.53 | JUC05019229.hg.1 | ZDHHC11 |
| TC05003403.hg.1 | -2.65 | JUC05019232.hg.1 | ZDHHC11 |
| TC05003403.hg.1 | -2.96 | JUC05019244.hg.1 | ZDHHC11 |
| TC05003403.hg.1 | -3.13 | PSR05015874.hg.1 | ZDHHC11 |
| TC06001671.hg.1 | 2.15 | JUC06009429.hg.1 | |
| TC06001671.hg.1 | 2.03 | PSR06019899.hg.1 | |
| TC07001507.hg.1 | 2.15 | PSR07022698.hg.1 | WBSCR27 |
| TC07001507.hg.1 | 2.15 | JUC07011141.hg.1 | WBSCR27 |
| TC10001663.hg.1 | 2.15 | JUC10012635.hg.1 | GPAM |
| TC10001663.hg.1 | -2.03 | JUC10012634.hg.1 | GPAM |
| TC10001663.hg.1 | -2.21 | PSR10021798.hg.1 | GPAM |
| TC10001663.hg.1 | -2.22 | JUC10012621.hg.1 | GPAM |
| TC10001663.hg.1 | -2.35 | JUC10012633.hg.1 | GPAM |
| TC10001663.hg.1 | -2.69 | JUC10012636.hg.1 | GPAM |
| TC10001663.hg.1 | -2.72 | JUC10012629.hg.1 | GPAM |
| TC10001663.hg.1 | -12.49 | PSR10021822.hg.1 | GPAM |
| TC11000362.hg.1 | 2.15 | PSR11004487.hg.1 | TTC17 |
| TC11000362.hg.1 | -2.01 | JUC11002417.hg.1 | TTC17 |
| TC11000362.hg.1 | -2.17 | JUC11002429.hg.1 | TTC17 |
| TC12000227.hg.1 | 2.15 | JUC12001344.hg.1 | PDE3A |
| TC12000227.hg.1 | 2.03 | PSR12002773.hg.1 | PDE3A |
| TC14001484.hg.1 | 2.15 | JUC14008687.hg.1 | ATG2B |

| | | | |
|-----------------|-------|------------------|-------------|
| TC14001484.hg.1 | 2.13 | JUC14008648.hg.1 | ATG2B |
| TC14001484.hg.1 | 2.05 | PSR14016731.hg.1 | ATG2B |
| TC14001484.hg.1 | -2.38 | PSR14016755.hg.1 | ATG2B |
| TC15001471.hg.1 | 2.15 | JUC15007405.hg.1 | NEDD4 |
| TC15001471.hg.1 | 2.05 | JUC15007395.hg.1 | NEDD4 |
| TC15001471.hg.1 | -2.01 | PSR15013825.hg.1 | NEDD4 |
| TC15001471.hg.1 | -2.16 | PSR15013828.hg.1 | NEDD4 |
| TC15001471.hg.1 | -2.4 | JUC15007413.hg.1 | NEDD4 |
| TC15001471.hg.1 | -2.44 | JUC15007424.hg.1 | NEDD4 |
| TC15001471.hg.1 | -2.45 | JUC15007410.hg.1 | NEDD4 |
| TC15001471.hg.1 | -3.11 | JUC15007421.hg.1 | NEDD4 |
| TC17000718.hg.1 | 2.15 | PSR17009380.hg.1 | PRR11 |
| TC17000718.hg.1 | 2.15 | PSR17009381.hg.1 | PRR11 |
| TC17000718.hg.1 | -2.01 | JUC17005098.hg.1 | PRR11 |
| TC17000718.hg.1 | -2.02 | JUC17005102.hg.1 | PRR11 |
| TC17002859.hg.1 | 2.15 | JUC17018452.hg.1 | BPTF, LOC14 |
| TC17002859.hg.1 | -2.08 | PSR17010329.hg.1 | BPTF, LOC14 |
| TC17002859.hg.1 | -2.19 | JUC17018442.hg.1 | BPTF, LOC14 |
| TC18000380.hg.1 | 2.15 | PSR18003999.hg.1 | FAM210A |
| TC18000380.hg.1 | 2.03 | JUC18002697.hg.1 | FAM210A |
| TC22000260.hg.1 | 2.15 | JUC22001764.hg.1 | MCM5 |
| TC22000260.hg.1 | -2.01 | JUC22001766.hg.1 | MCM5 |
| TC22000260.hg.1 | -2.48 | JUC22001769.hg.1 | MCM5 |
| TC22000260.hg.1 | -2.55 | PSR22004876.hg.1 | MCM5 |
| TC22000433.hg.1 | 2.15 | PSR22008207.hg.1 | MAPK8IP2 |
| TC22000433.hg.1 | -6.08 | JUC22003203.hg.1 | MAPK8IP2 |
| TC22001434.hg.1 | 2.15 | PSR22009290.hg.1 | TOP3B |
| TC22001434.hg.1 | 2.01 | JUC22008810.hg.1 | TOP3B |
| TC22001434.hg.1 | -3.09 | JUC22008801.hg.1 | TOP3B |
| TC22001462.hg.1 | 2.15 | PSR22003992.hg.1 | MTFP1 |
| TC22001462.hg.1 | -3.44 | JUC22009228.hg.1 | MTFP1 |
| TC01000907.hg.1 | 2.14 | PSR01014304.hg.1 | LOC1005060 |
| TC01000907.hg.1 | 2.13 | JUC01007554.hg.1 | LOC1005060 |
| TC01000907.hg.1 | 2.01 | JUC01007564.hg.1 | LOC1005060 |
| TC01002648.hg.1 | 2.14 | PSR01041407.hg.1 | TTC39A |
| TC01002648.hg.1 | -2.07 | PSR01041376.hg.1 | TTC39A |
| TC01002648.hg.1 | -2.15 | JUC01022124.hg.1 | TTC39A |
| TC01002648.hg.1 | -4.36 | JUC01022127.hg.1 | TTC39A |
| TC02000666.hg.1 | 2.14 | PSR02010326.hg.1 | GCC2 |
| TC02000666.hg.1 | -2.34 | PSR02010361.hg.1 | GCC2 |
| TC02000666.hg.1 | -2.44 | JUC02005485.hg.1 | GCC2 |
| TC02000666.hg.1 | -2.56 | PSR02010362.hg.1 | GCC2 |
| TC02000666.hg.1 | -3.57 | JUC02005466.hg.1 | GCC2 |
| TC02001859.hg.1 | 2.14 | PSR02029675.hg.1 | MTIF2 |
| TC02001859.hg.1 | -2.16 | JUC02015600.hg.1 | MTIF2 |
| TC02001859.hg.1 | -3.18 | JUC02015601.hg.1 | MTIF2 |
| TC02002167.hg.1 | 2.14 | JUC02018194.hg.1 | FHL2 |
| TC02002167.hg.1 | 2.11 | JUC02018179.hg.1 | FHL2 |
| TC02002167.hg.1 | -5.1 | PSR02035256.hg.1 | FHL2 |
| TC02005011.hg.1 | 2.14 | JUC02032175.hg.1 | GIGYF2 |
| TC02005011.hg.1 | 2.1 | JUC02032125.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.04 | PSR02022394.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.07 | JUC02032182.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.12 | PSR02022319.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.13 | JUC02032117.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.32 | PSR02022300.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.34 | PSR02022281.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.41 | PSR02022352.hg.1 | GIGYF2 |

| | | | |
|-----------------|-------|------------------|---------|
| TC02005011.hg.1 | -2.61 | JUC02032138.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.85 | JUC02032150.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -2.88 | JUC02032134.hg.1 | GIGYF2 |
| TC02005011.hg.1 | -3.03 | JUC02032151.hg.1 | GIGYF2 |
| TC03000479.hg.1 | 2.14 | PSR03009261.hg.1 | ARL6 |
| TC03000479.hg.1 | 2.01 | JUC03004622.hg.1 | ARL6 |
| TC03000707.hg.1 | 2.14 | PSR03012677.hg.1 | ATP2C1 |
| TC03000707.hg.1 | 2 | JUC03006390.hg.1 | ATP2C1 |
| TC05001522.hg.1 | 2.14 | JUC05010761.hg.1 | HOMER1 |
| TC05001522.hg.1 | -2.22 | PSR05020877.hg.1 | HOMER1 |
| TC05002148.hg.1 | 2.14 | JUC05015353.hg.1 | FLT4 |
| TC05002148.hg.1 | 2.13 | PSR05030233.hg.1 | FLT4 |
| TC05002148.hg.1 | -3.34 | JUC05015342.hg.1 | FLT4 |
| TC06002001.hg.1 | 2.14 | PSR06024870.hg.1 | PPIL6 |
| TC06002001.hg.1 | 2.06 | PSR06024867.hg.1 | PPIL6 |
| TC06002001.hg.1 | 2.01 | JUC06012220.hg.1 | PPIL6 |
| TC07001288.hg.1 | 2.14 | PSR07020043.hg.1 | ELMO1 |
| TC07001288.hg.1 | 2.11 | PSR07020088.hg.1 | ELMO1 |
| TC07001288.hg.1 | 2.06 | PSR07020032.hg.1 | ELMO1 |
| TC07001288.hg.1 | -2.04 | JUC07009787.hg.1 | ELMO1 |
| TC07001288.hg.1 | -2.3 | JUC07009788.hg.1 | ELMO1 |
| TC07001736.hg.1 | 2.14 | JUC07013239.hg.1 | ATXN7L1 |
| TC07001736.hg.1 | 2.02 | PSR07026960.hg.1 | ATXN7L1 |
| TC07001736.hg.1 | 2.02 | PSR07026981.hg.1 | ATXN7L1 |
| TC07001736.hg.1 | -3.67 | PSR07026963.hg.1 | ATXN7L1 |
| TC11000930.hg.1 | 2.14 | JUC11006166.hg.1 | |
| TC11000930.hg.1 | -2.15 | PSR11011644.hg.1 | |
| TC13000394.hg.1 | 2.14 | PSR13004303.hg.1 | CARKD |
| TC13000394.hg.1 | -3.19 | JUC13002607.hg.1 | CARKD |
| TC13000398.hg.1 | 2.14 | JUC13002659.hg.1 | ARHGEF7 |
| TC13000398.hg.1 | -2.02 | PSR13004392.hg.1 | ARHGEF7 |
| TC13000398.hg.1 | -2.22 | JUC13002637.hg.1 | ARHGEF7 |
| TC13000398.hg.1 | -2.3 | PSR13004379.hg.1 | ARHGEF7 |
| TC13000398.hg.1 | -2.47 | JUC13002641.hg.1 | ARHGEF7 |
| TC13000398.hg.1 | -2.85 | PSR13004381.hg.1 | ARHGEF7 |
| TC15000747.hg.1 | 2.14 | JUC15003430.hg.1 | FAH |
| TC15000747.hg.1 | 2.04 | JUC15003421.hg.1 | FAH |
| TC15000747.hg.1 | -2.07 | PSR15006746.hg.1 | FAH |
| TC15000747.hg.1 | -2.07 | PSR15006747.hg.1 | FAH |
| TC17001433.hg.1 | 2.14 | PSR17018934.hg.1 | PIP4K2B |
| TC17001433.hg.1 | -2.23 | JUC17010723.hg.1 | PIP4K2B |
| TC20000947.hg.1 | 2.14 | PSR20013087.hg.1 | ZFP64 |
| TC20000947.hg.1 | 2.14 | JUC20006791.hg.1 | ZFP64 |
| TC20000947.hg.1 | -2.52 | JUC20006793.hg.1 | ZFP64 |
| TC22000478.hg.1 | 2.14 | PSR22008605.hg.1 | MICAL3 |
| TC22000478.hg.1 | -2.21 | JUC22003409.hg.1 | MICAL3 |
| TC01003942.hg.1 | 2.13 | JUC01031297.hg.1 | CCSAP |
| TC01003942.hg.1 | -2.59 | PSR01059789.hg.1 | CCSAP |
| TC02001033.hg.1 | 2.13 | PSR02015397.hg.1 | RAPGEF4 |
| TC02001033.hg.1 | 2.07 | PSR02015392.hg.1 | RAPGEF4 |
| TC02001033.hg.1 | -2.32 | JUC02008211.hg.1 | RAPGEF4 |
| TC02001033.hg.1 | -2.79 | JUC02008231.hg.1 | RAPGEF4 |
| TC02001033.hg.1 | -3.12 | JUC02008236.hg.1 | RAPGEF4 |
| TC03000610.hg.1 | 2.13 | PSR03011032.hg.1 | ADPRH |
| TC03000610.hg.1 | -2.11 | JUC03005482.hg.1 | ADPRH |
| TC03000610.hg.1 | -2.11 | JUC03005485.hg.1 | ADPRH |
| TC03000610.hg.1 | -2.25 | PSR03011019.hg.1 | ADPRH |
| TC03000610.hg.1 | -2.48 | PSR03011014.hg.1 | ADPRH |

| | | | |
|-----------------|-------|------------------|-------------|
| TC03000610.hg.1 | -2.58 | PSR03011023.hg.1 | ADPRH |
| TC03001560.hg.1 | 2.13 | PSR03028369.hg.1 | PDZRN3 |
| TC03001560.hg.1 | 2.01 | PSR03028392.hg.1 | PDZRN3 |
| TC03001560.hg.1 | -2.06 | JUC03013975.hg.1 | PDZRN3 |
| TC05002003.hg.1 | 2.13 | JUC05014195.hg.1 | PWWP2A |
| TC05002003.hg.1 | -2.3 | PSR05027848.hg.1 | PWWP2A |
| TC07003309.hg.1 | 2.13 | PSR07006829.hg.1 | DTX2, LOC10 |
| TC07003309.hg.1 | -2.24 | JUC07020593.hg.1 | DTX2, LOC10 |
| TC07003309.hg.1 | -2.44 | JUC07020590.hg.1 | DTX2, LOC10 |
| TC07003309.hg.1 | -5.57 | PSR07006854.hg.1 | DTX2, LOC10 |
| TC08001171.hg.1 | 2.13 | PSR08015087.hg.1 | ANK1 |
| TC08001171.hg.1 | -2 | PSR08015063.hg.1 | ANK1 |
| TC08001171.hg.1 | -2.42 | JUC08007712.hg.1 | ANK1 |
| TC08001171.hg.1 | -2.43 | JUC08007694.hg.1 | ANK1 |
| TC08001171.hg.1 | -2.81 | JUC08007671.hg.1 | ANK1 |
| TC08001171.hg.1 | -3.04 | JUC08007695.hg.1 | ANK1 |
| TC08001171.hg.1 | -3.05 | JUC08007700.hg.1 | ANK1 |
| TC0X002317.hg.1 | 2.13 | JUC0X012976.hg.1 | RPL36A, RPL |
| TC0X002317.hg.1 | 2.11 | PSR0X006203.hg.1 | RPL36A, RPL |
| TC0X002317.hg.1 | -2.99 | JUC0X012975.hg.1 | RPL36A, RPL |
| TC10000883.hg.1 | 2.13 | JUC10006023.hg.1 | TACC2 |
| TC10000883.hg.1 | 2.01 | PSR10010675.hg.1 | TACC2 |
| TC10000883.hg.1 | -5.16 | JUC10006041.hg.1 | TACC2 |
| TC10001315.hg.1 | 2.13 | PSR10016485.hg.1 | SLC16A9 |
| TC10001315.hg.1 | -2 | JUC10009619.hg.1 | SLC16A9 |
| TC11002449.hg.1 | 2.13 | JUC11015659.hg.1 | PRDM10 |
| TC11002449.hg.1 | -2.31 | PSR11029383.hg.1 | PRDM10 |
| TC11002449.hg.1 | -2.56 | JUC11015664.hg.1 | PRDM10 |
| TC11002449.hg.1 | -3.6 | JUC11015666.hg.1 | PRDM10 |
| TC12000779.hg.1 | 2.13 | JUC12005278.hg.1 | GAS2L3 |
| TC12000779.hg.1 | -2.26 | PSR12009815.hg.1 | GAS2L3 |
| TC12000885.hg.1 | 2.13 | PSR12011695.hg.1 | OAS3 |
| TC12000885.hg.1 | -2.35 | JUC12006422.hg.1 | OAS3 |
| TC12000885.hg.1 | -2.37 | PSR12011673.hg.1 | OAS3 |
| TC12000885.hg.1 | -2.8 | PSR12011700.hg.1 | OAS3 |
| TC12001429.hg.1 | 2.13 | JUC12010336.hg.1 | SLC38A4 |
| TC12001429.hg.1 | 2.11 | PSR12018492.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.29 | PSR12018503.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.33 | JUC12010345.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.35 | PSR12018486.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.39 | PSR12018499.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.44 | PSR12018489.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.58 | JUC12010327.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -2.76 | PSR12018504.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -3.49 | PSR12018498.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -3.95 | PSR12018506.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -4.18 | PSR12018507.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -4.35 | JUC12010330.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -4.94 | PSR12018505.hg.1 | SLC38A4 |
| TC12001429.hg.1 | -6.75 | JUC12010332.hg.1 | SLC38A4 |
| TC14001155.hg.1 | 2.13 | PSR14013201.hg.1 | DLGAP5 |
| TC14001155.hg.1 | 2.1 | JUC14006695.hg.1 | DLGAP5 |
| TC14001155.hg.1 | 2.04 | PSR14013187.hg.1 | DLGAP5 |
| TC14001155.hg.1 | -2.2 | PSR14013189.hg.1 | DLGAP5 |
| TC14001155.hg.1 | -5.03 | JUC14006694.hg.1 | DLGAP5 |
| TC16000975.hg.1 | 2.13 | JUC16007888.hg.1 | ZKSCAN2 |
| TC16000975.hg.1 | 2.1 | PSR16014007.hg.1 | ZKSCAN2 |
| TC17000309.hg.1 | 2.13 | JUC17002088.hg.1 | WSB1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC17000309.hg.1 | -2.52 | PSR17003696.hg.1 | WSB1 |
| TC17000309.hg.1 | -2.58 | JUC17002079.hg.1 | WSB1 |
| TC17000309.hg.1 | -3.19 | PSR17003695.hg.1 | WSB1 |
| TC17000309.hg.1 | -4.79 | PSR17003689.hg.1 | WSB1 |
| TC17001315.hg.1 | 2.13 | JUC17009937.hg.1 | TIAF1, MYO1 |
| TC17001315.hg.1 | 2.09 | PSR17017623.hg.1 | TIAF1, MYO1 |
| TC17001315.hg.1 | 2.09 | JUC17009949.hg.1 | TIAF1, MYO1 |
| TC17001315.hg.1 | -2.27 | JUC17009967.hg.1 | TIAF1, MYO1 |
| TC17001315.hg.1 | -2.32 | JUC17009931.hg.1 | TIAF1, MYO1 |
| TC17001315.hg.1 | -3.03 | JUC17009934.hg.1 | TIAF1, MYO1 |
| TC20000134.hg.1 | 2.13 | JUC20000881.hg.1 | RIN2 |
| TC20000134.hg.1 | -2.03 | PSR20001693.hg.1 | RIN2 |
| TC20000134.hg.1 | -2.03 | JUC20000894.hg.1 | RIN2 |
| TC20000134.hg.1 | -2.17 | PSR20001700.hg.1 | RIN2 |
| TC20000134.hg.1 | -2.22 | PSR20001697.hg.1 | RIN2 |
| TC20000276.hg.1 | 2.13 | JUC20002197.hg.1 | CTNNBL1 |
| TC20000276.hg.1 | 2.06 | PSR20003918.hg.1 | CTNNBL1 |
| TC20000276.hg.1 | -2.34 | JUC20002213.hg.1 | CTNNBL1 |
| TC20000758.hg.1 | 2.13 | JUC20005287.hg.1 | DUSP15 |
| TC20000758.hg.1 | -2.81 | PSR20010112.hg.1 | DUSP15 |
| TC20000758.hg.1 | -3.2 | PSR20010113.hg.1 | DUSP15 |
| TC20000758.hg.1 | -4.64 | JUC20005289.hg.1 | DUSP15 |
| TC20000758.hg.1 | -5.45 | JUC20005288.hg.1 | DUSP15 |
| TC20000758.hg.1 | -8.74 | JUC20005292.hg.1 | DUSP15 |
| TC20001027.hg.1 | 2.13 | PSR20014041.hg.1 | NKAIN4 |
| TC20001027.hg.1 | -2.28 | PSR20014025.hg.1 | NKAIN4 |
| TC20001027.hg.1 | -2.28 | PSR20014035.hg.1 | NKAIN4 |
| TC20001027.hg.1 | -2.49 | JUC20007327.hg.1 | NKAIN4 |
| TC01003273.hg.1 | 2.12 | PSR01050373.hg.1 | ILF2 |
| TC01003273.hg.1 | -2 | JUC01026634.hg.1 | ILF2 |
| TC01003279.hg.1 | 2.12 | PSR01050466.hg.1 | DENND4B |
| TC01003279.hg.1 | -2.01 | JUC01026665.hg.1 | DENND4B |
| TC01003279.hg.1 | -3.17 | JUC01026674.hg.1 | DENND4B |
| TC02000326.hg.1 | 2.12 | PSR02004980.hg.1 | CCDC104 |
| TC02000326.hg.1 | 2.06 | JUC02002609.hg.1 | CCDC104 |
| TC02000326.hg.1 | -2.02 | JUC02002611.hg.1 | CCDC104 |
| TC02000326.hg.1 | -2.19 | JUC02002602.hg.1 | CCDC104 |
| TC03000190.hg.1 | 2.12 | PSR03003703.hg.1 | SLC22A14 |
| TC03000190.hg.1 | -2.77 | JUC03001985.hg.1 | SLC22A14 |
| TC03000743.hg.1 | 2.12 | JUC03006788.hg.1 | ARMC8 |
| TC03000743.hg.1 | -2.17 | JUC03006791.hg.1 | ARMC8 |
| TC03000743.hg.1 | -2.42 | JUC03006816.hg.1 | ARMC8 |
| TC03000743.hg.1 | -2.74 | PSR03013453.hg.1 | ARMC8 |
| TC03000743.hg.1 | -3.99 | JUC03006805.hg.1 | ARMC8 |
| TC03001823.hg.1 | 2.12 | JUC03016368.hg.1 | CEP70 |
| TC03001823.hg.1 | -2.04 | PSR03033011.hg.1 | CEP70 |
| TC03001823.hg.1 | -2.22 | JUC03016383.hg.1 | CEP70 |
| TC03001823.hg.1 | -2.74 | PSR03033012.hg.1 | CEP70 |
| TC03001823.hg.1 | -2.76 | JUC03016394.hg.1 | CEP70 |
| TC03001823.hg.1 | -3.3 | PSR03033010.hg.1 | CEP70 |
| TC03001823.hg.1 | -3.44 | JUC03016382.hg.1 | CEP70 |
| TC03001823.hg.1 | -3.58 | PSR03033025.hg.1 | CEP70 |
| TC03001823.hg.1 | -3.78 | PSR03033021.hg.1 | CEP70 |
| TC03001823.hg.1 | -4.02 | PSR03032991.hg.1 | CEP70 |
| TC03001823.hg.1 | -4.25 | PSR03033026.hg.1 | CEP70 |
| TC03001823.hg.1 | -4.49 | PSR03032989.hg.1 | CEP70 |
| TC03001823.hg.1 | -4.66 | PSR03033036.hg.1 | CEP70 |
| TC03001823.hg.1 | -4.7 | PSR03033024.hg.1 | CEP70 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC03001823.hg.1 | -4.8 | PSR03033030.hg.1 | CEP70 |
| TC03001823.hg.1 | -6.3 | JUC03016386.hg.1 | CEP70 |
| TC03001823.hg.1 | -8.23 | JUC03016381.hg.1 | CEP70 |
| TC04000887.hg.1 | 2.12 | PSR04012082.hg.1 | WWC2, CLDN |
| TC04000887.hg.1 | -5.29 | JUC04006507.hg.1 | WWC2, CLDN |
| TC05000179.hg.1 | 2.12 | PSR05002119.hg.1 | OSMR |
| TC05000179.hg.1 | 2.1 | JUC05001190.hg.1 | OSMR |
| TC05000179.hg.1 | -2.04 | JUC05001198.hg.1 | OSMR |
| TC05000179.hg.1 | -2.13 | JUC05001185.hg.1 | OSMR |
| TC05001319.hg.1 | 2.12 | PSR05018642.hg.1 | C5orf34 |
| TC05001319.hg.1 | 2.1 | JUC05009594.hg.1 | C5orf34 |
| TC05001319.hg.1 | -3.28 | JUC05009584.hg.1 | C5orf34 |
| TC08001156.hg.1 | 2.12 | JUC08007569.hg.1 | TM2D2 |
| TC08001156.hg.1 | 2.06 | JUC08007572.hg.1 | TM2D2 |
| TC08001156.hg.1 | -2.47 | PSR08014863.hg.1 | TM2D2 |
| TC09001526.hg.1 | 2.12 | PSR09019077.hg.1 | ASTN2 |
| TC09001526.hg.1 | 2.08 | JUC09010361.hg.1 | ASTN2 |
| TC09001526.hg.1 | -2.76 | JUC09010338.hg.1 | ASTN2 |
| TC0X001073.hg.1 | 2.12 | JUC0X007405.hg.1 | WNK3 |
| TC0X001073.hg.1 | 2.03 | JUC0X007388.hg.1 | WNK3 |
| TC0X001073.hg.1 | -2.1 | PSR0X014641.hg.1 | WNK3 |
| TC0X001073.hg.1 | -2.14 | PSR0X014654.hg.1 | WNK3 |
| TC0X001073.hg.1 | -2.23 | PSR0X014650.hg.1 | WNK3 |
| TC11001015.hg.1 | 2.12 | PSR11012676.hg.1 | NCAM1 |
| TC11001015.hg.1 | 2.04 | PSR11012681.hg.1 | NCAM1 |
| TC11001015.hg.1 | -2.48 | JUC11006819.hg.1 | NCAM1 |
| TC11001015.hg.1 | -3.33 | JUC11006800.hg.1 | NCAM1 |
| TC14001038.hg.1 | 2.12 | PSR14011892.hg.1 | RALGAPA1 |
| TC14001038.hg.1 | -2.19 | JUC14005972.hg.1 | RALGAPA1 |
| TC14001038.hg.1 | -2.45 | JUC14005962.hg.1 | RALGAPA1 |
| TC14001038.hg.1 | -3.4 | JUC14005954.hg.1 | RALGAPA1 |
| TC14001308.hg.1 | 2.12 | PSR14014881.hg.1 | LTBP2 |
| TC14001308.hg.1 | -3.06 | JUC14007509.hg.1 | LTBP2 |
| TC14001499.hg.1 | 2.12 | PSR14016854.hg.1 | SETD3 |
| TC14001499.hg.1 | -2.53 | JUC14008728.hg.1 | SETD3 |
| TC15001202.hg.1 | 2.12 | PSR15010752.hg.1 | AQR |
| TC15001202.hg.1 | -2.62 | JUC15005681.hg.1 | AQR |
| TC17001716.hg.1 | 2.12 | JUC17012788.hg.1 | TRIM25, MIR: |
| TC17001716.hg.1 | -2.23 | PSR17023021.hg.1 | TRIM25, MIR: |
| TC17001716.hg.1 | -3.02 | JUC17012787.hg.1 | TRIM25, MIR: |
| TC17001933.hg.1 | 2.12 | PSR17026333.hg.1 | EIF4A3 |
| TC17001933.hg.1 | -2.24 | PSR17026338.hg.1 | EIF4A3 |
| TC17001933.hg.1 | -2.28 | JUC17014835.hg.1 | EIF4A3 |
| TC19002680.hg.1 | 2.12 | JUC19017784.hg.1 | ZNF433 |
| TC19002680.hg.1 | -2.12 | PSR19016619.hg.1 | ZNF433 |
| TC19000653.hg.1 | 2.12 | JUC19005430.hg.1 | QPCTL |
| TC19000653.hg.1 | 2 | PSR19009144.hg.1 | QPCTL |
| TC01000155.hg.1 | 2.11 | PSR01002600.hg.1 | TNFRSF1B, N |
| TC01000155.hg.1 | -2.34 | JUC01001425.hg.1 | TNFRSF1B, N |
| TC01002754.hg.1 | 2.11 | JUC01023030.hg.1 | SLC35D1 |
| TC01002754.hg.1 | -2.22 | PSR01043055.hg.1 | SLC35D1 |
| TC04000996.hg.1 | 2.11 | JUC04007301.hg.1 | EVC2 |
| TC04000996.hg.1 | 2.1 | JUC04007302.hg.1 | EVC2 |
| TC04000996.hg.1 | -2.08 | PSR04013756.hg.1 | EVC2 |
| TC04000996.hg.1 | -2.88 | JUC04007297.hg.1 | EVC2 |
| TC04001373.hg.1 | 2.11 | JUC04010112.hg.1 | PPM1K |
| TC04001373.hg.1 | 2.07 | JUC04010113.hg.1 | PPM1K |
| TC04001373.hg.1 | -2 | PSR04019228.hg.1 | PPM1K |

| | | | |
|-----------------|-------|-------------------|-------------|
| TC04001373.hg.1 | -2.03 | PSR04019209.hg.1 | PPM1K |
| TC04001373.hg.1 | -2.06 | PSR04019213.hg.1 | PPM1K |
| TC04001373.hg.1 | -2.19 | JUC04010103.hg.1 | PPM1K |
| TC05001457.hg.1 | 2.11 | JUC05010335.hg.1 | GTF2H2, GTF |
| TC05001457.hg.1 | -2.04 | PSR05020087.hg.1 | GTF2H2, GTF |
| TC05001457.hg.1 | -2.28 | PSR05020079.hg.1 | GTF2H2, GTF |
| TC05001457.hg.1 | -3.42 | JUC05010328.hg.1 | GTF2H2, GTF |
| TC07001348.hg.1 | 2.11 | PSR07021037.hg.1 | MYO1G |
| TC07001348.hg.1 | 2.09 | JUC07010282.hg.1 | MYO1G |
| TC09000690.hg.1 | 2.11 | JUC09004624.hg.1 | CERCAM, LC |
| TC09000690.hg.1 | -2.02 | PSR09008332.hg.1 | CERCAM, LC |
| TC09000690.hg.1 | -2.15 | PSR09008321.hg.1 | CERCAM, LC |
| TC09000690.hg.1 | -2.19 | PSR09008334.hg.1 | CERCAM, LC |
| TC09000690.hg.1 | -3.35 | PSR09008322.hg.1 | CERCAM, LC |
| TC09000690.hg.1 | -4.56 | PSR09008337.hg.1 | CERCAM, LC |
| TC09000879.hg.1 | 2.11 | JUC09006343.hg.1 | GLIS3 |
| TC09000879.hg.1 | 2.1 | PSR09011719.hg.1 | GLIS3 |
| TC09000879.hg.1 | -2 | JUC09006345.hg.1 | GLIS3 |
| TC09000879.hg.1 | -2.08 | PSR09011706.hg.1 | GLIS3 |
| TC09000879.hg.1 | -2.36 | JUC09006342.hg.1 | GLIS3 |
| TC09000879.hg.1 | -3.06 | JUC09006329.hg.1 | GLIS3 |
| TC09001618.hg.1 | 2.11 | JUC09011018.hg.1 | FAM102A |
| TC09001618.hg.1 | -2.1 | PSR09020448.hg.1 | FAM102A |
| TC09001618.hg.1 | -2.19 | JUC09011010.hg.1 | FAM102A |
| TC09001618.hg.1 | -2.35 | PSR09020454.hg.1 | FAM102A |
| TC09001618.hg.1 | -2.62 | PSR09020445.hg.1 | FAM102A |
| TC09001618.hg.1 | -2.64 | PSR09020446.hg.1 | FAM102A |
| TC09001618.hg.1 | -2.7 | JUC09011015.hg.1 | FAM102A |
| TC15000808.hg.1 | 2.11 | JUC15003848.hg.1 | GOLGA6L4 |
| TC15000808.hg.1 | 2.02 | PSR15007362.hg.1 | GOLGA6L4 |
| TC15002774.hg.1 | 2.11 | JUC15013414.hg.1 | MIR628, CCF |
| TC15002774.hg.1 | 2.05 | PSR15013695.hg.1 | MIR628, CCF |
| TC16000643.hg.1 | 2.11 | JUC16005059.hg.1 | PLCG2 |
| TC16000643.hg.1 | -2.19 | JUC16005051.hg.1 | PLCG2 |
| TC16000643.hg.1 | -2.37 | JUC16005064.hg.1 | PLCG2 |
| TC16000643.hg.1 | -2.94 | PSR16009106.hg.1 | PLCG2 |
| TC16000643.hg.1 | -2.94 | JUC16005046.hg.1 | PLCG2 |
| TC16000643.hg.1 | -3.2 | JUC16005049.hg.1 | PLCG2 |
| TC16000643.hg.1 | -3.36 | JUC16005039.hg.1 | PLCG2 |
| TC16000643.hg.1 | -3.8 | JUC16005050.hg.1 | PLCG2 |
| TC16000771.hg.1 | 2.11 | PSR16011280.hg.1 | ZNF598 |
| TC16000771.hg.1 | -2.78 | JUC16006301.hg.1 | ZNF598 |
| TC17000337.hg.1 | 2.11 | JUC17002322.hg.1 | PIPOX |
| TC17000337.hg.1 | -2.13 | PSR17004147.hg.1 | PIPOX |
| TC18000446.hg.1 | 2.11 | PSR18004551.hg.1 | FAM59A |
| TC18000446.hg.1 | -2.68 | JUC18003072.hg.1 | FAM59A |
| TC6_qbl_hap6000 | 2.11 | PSR6_qbl_hap60024 | MDC1 |
| TC6_qbl_hap6000 | -2.98 | JUC6_qbl_hap60008 | MDC1 |
| TC01000503.hg.1 | 2.1 | JUC01004064.hg.1 | MFSD2A |
| TC01000503.hg.1 | 2.03 | JUC01004068.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.05 | PSR01007789.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.11 | PSR01007804.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.3 | PSR01007786.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.32 | JUC01004067.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.4 | PSR01007801.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.85 | PSR01007812.hg.1 | MFSD2A |
| TC01000503.hg.1 | -2.96 | PSR01007811.hg.1 | MFSD2A |
| TC01000503.hg.1 | -3.23 | JUC01004076.hg.1 | MFSD2A |

| | | | |
|-----------------|-------|------------------|-----------|
| TC01000503.hg.1 | -3.58 | JUC01004082.hg.1 | MFSD2A |
| TC02002135.hg.1 | 2.1 | JUC02017958.hg.1 | REV1 |
| TC02002135.hg.1 | -2.11 | PSR02034794.hg.1 | REV1 |
| TC02002523.hg.1 | 2.1 | JUC02021145.hg.1 | SLC25A12 |
| TC02002523.hg.1 | 2.07 | JUC02021134.hg.1 | SLC25A12 |
| TC02002523.hg.1 | 2.05 | JUC02021135.hg.1 | SLC25A12 |
| TC02002523.hg.1 | -2.04 | PSR02040088.hg.1 | SLC25A12 |
| TC02002523.hg.1 | -2.32 | PSR02040072.hg.1 | SLC25A12 |
| TC02002523.hg.1 | -2.86 | PSR02040103.hg.1 | SLC25A12 |
| TC02002523.hg.1 | -3.11 | JUC02021128.hg.1 | SLC25A12 |
| TC05000860.hg.1 | 2.1 | JUC05006494.hg.1 | SGCD |
| TC05000860.hg.1 | -2.02 | JUC05006487.hg.1 | SGCD |
| TC05000860.hg.1 | -2.43 | JUC05006495.hg.1 | SGCD |
| TC05000860.hg.1 | -3.21 | JUC05006488.hg.1 | SGCD |
| TC05000860.hg.1 | -3.66 | PSR05012535.hg.1 | SGCD |
| TC05000860.hg.1 | -3.84 | PSR05012539.hg.1 | SGCD |
| TC05000860.hg.1 | -4.09 | PSR05012540.hg.1 | SGCD |
| TC05000860.hg.1 | -5.26 | PSR05012544.hg.1 | SGCD |
| TC06001440.hg.1 | 2.1 | JUC06008175.hg.1 | ZSCAN23 |
| TC06001440.hg.1 | -2 | PSR06016468.hg.1 | ZSCAN23 |
| TC06001440.hg.1 | -2.29 | JUC06008181.hg.1 | ZSCAN23 |
| TC06001440.hg.1 | -2.46 | PSR06016472.hg.1 | ZSCAN23 |
| TC06001440.hg.1 | -2.95 | PSR06016477.hg.1 | ZSCAN23 |
| TC06001440.hg.1 | -3.1 | PSR06016476.hg.1 | ZSCAN23 |
| TC06001440.hg.1 | -3.16 | PSR06016469.hg.1 | ZSCAN23 |
| TC07000162.hg.1 | 2.1 | JUC07001248.hg.1 | LOC441204 |
| TC07000162.hg.1 | -2.2 | PSR07002566.hg.1 | LOC441204 |
| TC09000817.hg.1 | 2.1 | JUC09005849.hg.1 | EGFL7 |
| TC09000817.hg.1 | -2.27 | JUC09005845.hg.1 | EGFL7 |
| TC09000817.hg.1 | -2.58 | PSR09010592.hg.1 | EGFL7 |
| TC09000817.hg.1 | -2.81 | JUC09005841.hg.1 | EGFL7 |
| TC09000817.hg.1 | -4.3 | JUC09005844.hg.1 | EGFL7 |
| TC0X000015.hg.1 | 2.1 | JUC0X000118.hg.1 | XG, XGPY2 |
| TC0X000015.hg.1 | 2.1 | JUC0X000123.hg.1 | XG, XGPY2 |
| TC0X000015.hg.1 | 2.06 | PSR0X000259.hg.1 | XG, XGPY2 |
| TC0X000098.hg.1 | 2.1 | JUC0X000732.hg.1 | MBTPS2 |
| TC0X000098.hg.1 | -2.24 | PSR0X001327.hg.1 | MBTPS2 |
| TC10000611.hg.1 | 2.1 | PSR10006660.hg.1 | SNCG |
| TC10000611.hg.1 | -2.02 | JUC10003815.hg.1 | SNCG |
| TC10000611.hg.1 | -2.95 | JUC10003817.hg.1 | SNCG |
| TC10000611.hg.1 | -8.17 | PSR10006666.hg.1 | SNCG |
| TC11001084.hg.1 | 2.1 | PSR11013701.hg.1 | C2CD2L |
| TC11001084.hg.1 | -2.88 | JUC11007364.hg.1 | C2CD2L |
| TC13000223.hg.1 | 2.1 | PSR13002644.hg.1 | CKAP2 |
| TC13000223.hg.1 | -2.34 | PSR13002666.hg.1 | CKAP2 |
| TC13000223.hg.1 | -2.5 | JUC13001657.hg.1 | CKAP2 |
| TC13000223.hg.1 | -2.77 | JUC13001661.hg.1 | CKAP2 |
| TC15000793.hg.1 | 2.1 | PSR15007221.hg.1 | WHAMM |
| TC15000793.hg.1 | -2.33 | JUC15003748.hg.1 | WHAMM |
| TC16001299.hg.1 | 2.1 | JUC16010276.hg.1 | PKD1L2 |
| TC16001299.hg.1 | -2.04 | PSR16018042.hg.1 | PKD1L2 |
| TC16001299.hg.1 | -4.17 | JUC16010248.hg.1 | PKD1L2 |
| TC19002676.hg.1 | 2.1 | JUC19017734.hg.1 | EPOR |
| TC19002676.hg.1 | -2.06 | PSR19016459.hg.1 | EPOR |
| TC21000241.hg.1 | 2.1 | JUC21001466.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.05 | PSR21002833.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.31 | PSR21002824.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.36 | JUC21001464.hg.1 | ADARB1 |

| | | | |
|-----------------|-------|--------------------------|-------------|
| TC21000241.hg.1 | -2.43 | PSR21002823.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.49 | PSR21002837.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.53 | PSR21002836.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.69 | JUC21001485.hg.1 | ADARB1 |
| TC21000241.hg.1 | -2.71 | PSR21002846.hg.1 | ADARB1 |
| TC21000241.hg.1 | -4.53 | JUC21001470.hg.1 | ADARB1 |
| TC6_apd_hap1000 | 2.1 | JUC6_apd_hap1000326.hg.1 | |
| TC6_apd_hap1000 | -2.47 | PSR6_apd_hap1000868.hg.1 | |
| TC6_cox_hap2000 | 2.1 | JUC6_cox_hap2000781.hg.1 | |
| TC6_cox_hap2000 | -2.47 | PSR6_cox_hap2002195.hg.1 | |
| TC10002932.hg.1 | 2.1 | JUC10017117.hg.1 | DCLRE1C |
| TC10002932.hg.1 | -2 | PSR10013261.hg.1 | DCLRE1C |
| TC14001297.hg.1 | 2.1 | JUC14007420.hg.1 | C14orf43 |
| TC14001297.hg.1 | 2.01 | JUC14007422.hg.1 | C14orf43 |
| TC14001297.hg.1 | 2 | PSR14014669.hg.1 | C14orf43 |
| TC14001297.hg.1 | -2.01 | JUC14007414.hg.1 | C14orf43 |
| TC14001297.hg.1 | -2.26 | JUC14007417.hg.1 | C14orf43 |
| TC14001297.hg.1 | -2.35 | JUC14007409.hg.1 | C14orf43 |
| TC14001297.hg.1 | -2.51 | JUC14007418.hg.1 | C14orf43 |
| TC14002204.hg.1 | 2.1 | JUC14011391.hg.1 | C14orf178 |
| TC14002204.hg.1 | 2 | PSR14006286.hg.1 | C14orf178 |
| TC01000772.hg.1 | 2.09 | JUC01006452.hg.1 | TYW3 |
| TC01000772.hg.1 | -2.11 | PSR01012303.hg.1 | TYW3 |
| TC02001512.hg.1 | 2.09 | JUC02012750.hg.1 | PXDN |
| TC02001512.hg.1 | -2.07 | PSR02024681.hg.1 | PXDN |
| TC02001512.hg.1 | -2.4 | PSR02024642.hg.1 | PXDN |
| TC03000058.hg.1 | 2.09 | JUC03000663.hg.1 | TATDN2, GHF |
| TC03000058.hg.1 | -2.38 | JUC03000673.hg.1 | TATDN2, GHF |
| TC03000058.hg.1 | -2.49 | JUC03000665.hg.1 | TATDN2, GHF |
| TC03000058.hg.1 | -2.82 | PSR03001300.hg.1 | TATDN2, GHF |
| TC03000058.hg.1 | -3.45 | JUC03000675.hg.1 | TATDN2, GHF |
| TC03000760.hg.1 | 2.09 | JUC03006979.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2 | PSR03013832.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2 | JUC03006994.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.05 | JUC03006983.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.16 | JUC03006992.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.2 | JUC03006990.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.22 | PSR03013836.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.38 | PSR03013839.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.49 | PSR03013829.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.59 | PSR03013847.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -2.97 | JUC03006986.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -3.39 | JUC03006989.hg.1 | ZBTB38 |
| TC03000760.hg.1 | -3.72 | JUC03006987.hg.1 | ZBTB38 |
| TC03001858.hg.1 | 2.09 | PSR03033553.hg.1 | PCOLCE2 |
| TC03001858.hg.1 | -2.72 | JUC03016692.hg.1 | PCOLCE2 |
| TC04001177.hg.1 | 2.09 | PSR04016287.hg.1 | FRYL |
| TC04001177.hg.1 | 2.05 | JUC04008680.hg.1 | FRYL |
| TC04001177.hg.1 | -2.06 | JUC04008662.hg.1 | FRYL |
| TC04001177.hg.1 | -2.13 | JUC04008674.hg.1 | FRYL |
| TC07000093.hg.1 | 2.09 | PSR07001498.hg.1 | TMEM106B |
| TC07000093.hg.1 | -3.24 | JUC07000658.hg.1 | TMEM106B |
| TC07000341.hg.1 | 2.09 | PSR07005059.hg.1 | SUMF2 |
| TC07000341.hg.1 | 2.08 | JUC07002450.hg.1 | SUMF2 |
| TC07000341.hg.1 | -4.33 | PSR07005101.hg.1 | SUMF2 |
| TC07001120.hg.1 | 2.09 | PSR07017256.hg.1 | ACTB, LOC10 |
| TC07001120.hg.1 | -2.05 | JUC07008399.hg.1 | ACTB, LOC10 |
| TC07001120.hg.1 | -2.81 | JUC07008406.hg.1 | ACTB, LOC10 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC0X000981.hg.1 | 2.09 | JUC0X006587.hg.1 | FUNDC1 |
| TC0X000981.hg.1 | 2.03 | PSR0X013092.hg.1 | FUNDC1 |
| TC0X002322.hg.1 | 2.09 | JUC0X013060.hg.1 | PLXNB3 |
| TC0X002322.hg.1 | 2.01 | PSR0X009899.hg.1 | PLXNB3 |
| TC10000057.hg.1 | 2.09 | JUC10000342.hg.1 | LOC399715 |
| TC10000057.hg.1 | -3.2 | JUC10000338.hg.1 | LOC399715 |
| TC10000057.hg.1 | -4.69 | PSR10000658.hg.1 | LOC399715 |
| TC10000915.hg.1 | 2.09 | JUC10006530.hg.1 | BCCIP |
| TC10000915.hg.1 | -2.29 | PSR10011206.hg.1 | BCCIP |
| TC10001756.hg.1 | 2.09 | PSR10023250.hg.1 | MKI67 |
| TC10001756.hg.1 | 2.08 | JUC10013415.hg.1 | MKI67 |
| TC10001756.hg.1 | -3.21 | JUC10013405.hg.1 | MKI67 |
| TC13000614.hg.1 | 2.09 | PSR13007037.hg.1 | CCDC122 |
| TC13000614.hg.1 | -2.7 | JUC13004099.hg.1 | CCDC122 |
| TC15000276.hg.1 | 2.09 | JUC15000847.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.03 | PSR15001810.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.2 | PSR15001811.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.36 | PSR15001802.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.4 | JUC15000835.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.41 | PSR15001798.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.48 | JUC15000811.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -2.74 | PSR15001805.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -3.04 | JUC15000827.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -3.31 | JUC15000828.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -3.57 | JUC15000834.hg.1 | PAK6, BUB1E |
| TC15000276.hg.1 | -4.76 | PSR15001815.hg.1 | PAK6, BUB1E |
| TC17001032.hg.1 | 2.09 | PSR17013910.hg.1 | CHRNE |
| TC17001032.hg.1 | 2.06 | JUC17007927.hg.1 | CHRNE |
| TC17001032.hg.1 | 2 | JUC17007926.hg.1 | CHRNE |
| TC17001032.hg.1 | -2.07 | PSR17013905.hg.1 | CHRNE |
| TC17001032.hg.1 | -4.06 | JUC17007931.hg.1 | CHRNE |
| TC19002624.hg.1 | 2.09 | PSR19003188.hg.1 | ZNF700 |
| TC19002624.hg.1 | 2.08 | JUC19017299.hg.1 | ZNF700 |
| TC19002624.hg.1 | 2.01 | PSR19003195.hg.1 | ZNF700 |
| TC21000340.hg.1 | 2.09 | PSR21003872.hg.1 | APP |
| TC21000340.hg.1 | -2.4 | JUC21002070.hg.1 | APP |
| TC22000159.hg.1 | 2.09 | JUC22000925.hg.1 | KIAA1671 |
| TC22000159.hg.1 | -2.65 | JUC22000934.hg.1 | KIAA1671 |
| TC22000159.hg.1 | -3.52 | JUC22000930.hg.1 | KIAA1671 |
| TC22000159.hg.1 | -3.84 | PSR22003008.hg.1 | KIAA1671 |
| TC22000232.hg.1 | 2.09 | JUC22001574.hg.1 | DEPDC5 |
| TC22000232.hg.1 | 2.03 | JUC22001589.hg.1 | DEPDC5 |
| TC22000232.hg.1 | -2.06 | PSR22004430.hg.1 | DEPDC5 |
| TC22000232.hg.1 | -2.25 | PSR22004435.hg.1 | DEPDC5 |
| TC22000232.hg.1 | -2.47 | JUC22001571.hg.1 | DEPDC5 |
| TC22000232.hg.1 | -2.49 | JUC22001581.hg.1 | DEPDC5 |
| TC01001314.hg.1 | 2.08 | PSR01020481.hg.1 | SEMA4A |
| TC01001314.hg.1 | -2.27 | JUC01010914.hg.1 | SEMA4A |
| TC01001314.hg.1 | -2.87 | JUC01010903.hg.1 | SEMA4A |
| TC01001314.hg.1 | -3.54 | JUC01010906.hg.1 | SEMA4A |
| TC01002319.hg.1 | 2.08 | JUC01019115.hg.1 | HP1BP3 |
| TC01002319.hg.1 | -2.06 | JUC01019119.hg.1 | HP1BP3 |
| TC01002319.hg.1 | -2.07 | PSR01035537.hg.1 | HP1BP3 |
| TC01002319.hg.1 | -2.07 | PSR01035564.hg.1 | HP1BP3 |
| TC01002351.hg.1 | 2.08 | PSR01036260.hg.1 | HMGCL |
| TC01002351.hg.1 | -2.05 | JUC01019539.hg.1 | HMGCL |
| TC02000089.hg.1 | 2.08 | PSR02001146.hg.1 | DDX1 |
| TC02000089.hg.1 | -2.21 | JUC02000627.hg.1 | DDX1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC02000089.hg.1 | -3.68 | JUC02000642.hg.1 | DDX1 |
| TC02002117.hg.1 | 2.08 | JUC02017692.hg.1 | FAHD2B, FAF |
| TC02002117.hg.1 | 2.02 | PSR02034339.hg.1 | FAHD2B, FAF |
| TC03003348.hg.1 | 2.08 | PSR03004563.hg.1 | CCBP2 |
| TC03003348.hg.1 | -2.3 | PSR03004570.hg.1 | CCBP2 |
| TC03003348.hg.1 | -2.62 | JUC03023599.hg.1 | CCBP2 |
| TC03003348.hg.1 | -2.76 | PSR03004552.hg.1 | CCBP2 |
| TC03003348.hg.1 | -2.94 | JUC03023611.hg.1 | CCBP2 |
| TC03003348.hg.1 | -2.97 | PSR03004545.hg.1 | CCBP2 |
| TC03003348.hg.1 | -2.97 | PSR03004560.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.19 | JUC03023598.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.29 | PSR03004551.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.33 | PSR03004546.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.38 | PSR03004528.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.53 | JUC03023603.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.55 | PSR03004556.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.91 | PSR03004548.hg.1 | CCBP2 |
| TC03003348.hg.1 | -3.98 | PSR03004527.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.06 | PSR03004529.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.07 | PSR03004566.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.16 | JUC03023605.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.55 | PSR03004544.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.89 | PSR03004541.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.95 | JUC03023604.hg.1 | CCBP2 |
| TC03003348.hg.1 | -4.97 | JUC03023592.hg.1 | CCBP2 |
| TC03003348.hg.1 | -5.21 | PSR03004553.hg.1 | CCBP2 |
| TC04001537.hg.1 | 2.08 | JUC04011444.hg.1 | PGRMC2, LC |
| TC04001537.hg.1 | -2.02 | PSR04021742.hg.1 | PGRMC2, LC |
| TC04001537.hg.1 | -2.75 | PSR04021743.hg.1 | PGRMC2, LC |
| TC05000817.hg.1 | 2.08 | JUC05006074.hg.1 | AFAP1L1 |
| TC05000817.hg.1 | 2.07 | PSR05011679.hg.1 | AFAP1L1 |
| TC05000817.hg.1 | -3.93 | JUC05006085.hg.1 | AFAP1L1 |
| TC07001993.hg.1 | 2.08 | PSR07030612.hg.1 | EZH2 |
| TC07001993.hg.1 | 2.04 | PSR07030622.hg.1 | EZH2 |
| TC07001993.hg.1 | -2.1 | JUC07015172.hg.1 | EZH2 |
| TC07001993.hg.1 | -2.58 | JUC07015173.hg.1 | EZH2 |
| TC08000188.hg.1 | 2.08 | JUC08001256.hg.1 | SLC25A37 |
| TC08000188.hg.1 | 2.05 | PSR08002432.hg.1 | SLC25A37 |
| TC08000188.hg.1 | -2.04 | JUC08001254.hg.1 | SLC25A37 |
| TC09000611.hg.1 | 2.08 | JUC09003928.hg.1 | DAB2IP |
| TC09000611.hg.1 | 2.03 | JUC09003924.hg.1 | DAB2IP |
| TC09000611.hg.1 | -2.06 | JUC09003914.hg.1 | DAB2IP |
| TC09000611.hg.1 | -2.1 | PSR09007006.hg.1 | DAB2IP |
| TC09000611.hg.1 | -2.83 | JUC09003913.hg.1 | DAB2IP |
| TC0X000512.hg.1 | 2.08 | JUC0X003344.hg.1 | NRK |
| TC0X000512.hg.1 | -2.35 | PSR0X006861.hg.1 | NRK |
| TC0X000512.hg.1 | -2.59 | JUC0X003360.hg.1 | NRK |
| TC0X000512.hg.1 | -3.13 | PSR0X006844.hg.1 | NRK |
| TC0X000512.hg.1 | -3.55 | PSR0X006837.hg.1 | NRK |
| TC11001153.hg.1 | 2.08 | JUC11007890.hg.1 | PKNOX2 |
| TC11001153.hg.1 | -2.65 | JUC11007895.hg.1 | PKNOX2 |
| TC11001153.hg.1 | -3.33 | PSR11014537.hg.1 | PKNOX2 |
| TC11001153.hg.1 | -4.8 | JUC11007887.hg.1 | PKNOX2 |
| TC12000286.hg.1 | 2.08 | JUC12001734.hg.1 | DDX11 |
| TC12000286.hg.1 | -2.03 | PSR12003436.hg.1 | DDX11 |
| TC12000795.hg.1 | 2.08 | JUC12005469.hg.1 | PARPBP |
| TC12000795.hg.1 | 2.05 | PSR12010065.hg.1 | PARPBP |
| TC12000795.hg.1 | -2.7 | JUC12005470.hg.1 | PARPBP |

| | | | |
|-----------------|-------|------------------|---------|
| TC14001366.hg.1 | 2.08 | JUC14007882.hg.1 | CEP128 |
| TC14001366.hg.1 | -2.14 | PSR14015473.hg.1 | CEP128 |
| TC14001366.hg.1 | -2.15 | JUC14007863.hg.1 | CEP128 |
| TC14001366.hg.1 | -2.81 | JUC14007887.hg.1 | CEP128 |
| TC19001911.hg.1 | 2.08 | JUC19014651.hg.1 | ZSCAN18 |
| TC19001911.hg.1 | -2.25 | PSR19025877.hg.1 | ZSCAN18 |
| TC01000729.hg.1 | 2.07 | PSR01011625.hg.1 | DNAJC6 |
| TC01000729.hg.1 | -2.04 | JUC01006037.hg.1 | DNAJC6 |
| TC01000729.hg.1 | -2.93 | JUC01006042.hg.1 | DNAJC6 |
| TC02001615.hg.1 | 2.07 | JUC02013471.hg.1 | MATN3 |
| TC02001615.hg.1 | -3.18 | PSR02025897.hg.1 | MATN3 |
| TC02001615.hg.1 | -3.45 | JUC02013470.hg.1 | MATN3 |
| TC02001615.hg.1 | -5.81 | PSR02025904.hg.1 | MATN3 |
| TC02001615.hg.1 | -7.39 | PSR02025902.hg.1 | MATN3 |
| TC03000262.hg.1 | 2.07 | JUC03002651.hg.1 | PTH1R |
| TC03000262.hg.1 | -2.54 | JUC03002648.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.09 | JUC03002653.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.12 | PSR03005297.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.13 | PSR03005316.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.33 | JUC03002647.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.57 | JUC03002655.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.84 | PSR03005310.hg.1 | PTH1R |
| TC03000262.hg.1 | -3.9 | JUC03002658.hg.1 | PTH1R |
| TC03000262.hg.1 | -4 | PSR03005296.hg.1 | PTH1R |
| TC03000262.hg.1 | -4.23 | PSR03005295.hg.1 | PTH1R |
| TC03000262.hg.1 | -4.71 | JUC03002662.hg.1 | PTH1R |
| TC03000262.hg.1 | -4.78 | PSR03005293.hg.1 | PTH1R |
| TC03000262.hg.1 | -4.89 | JUC03002646.hg.1 | PTH1R |
| TC03000262.hg.1 | -6.14 | JUC03002649.hg.1 | PTH1R |
| TC03000262.hg.1 | -6.93 | PSR03005291.hg.1 | PTH1R |
| TC03000262.hg.1 | -7.41 | JUC03002650.hg.1 | PTH1R |
| TC03001110.hg.1 | 2.07 | JUC03009655.hg.1 | LRCH3 |
| TC03001110.hg.1 | -2.28 | JUC03009676.hg.1 | LRCH3 |
| TC03001110.hg.1 | -2.38 | PSR03019174.hg.1 | LRCH3 |
| TC03002133.hg.1 | 2.07 | PSR03037637.hg.1 | ATP13A3 |
| TC03002133.hg.1 | 2 | JUC03018623.hg.1 | ATP13A3 |
| TC03002133.hg.1 | -2.12 | JUC03018621.hg.1 | ATP13A3 |
| TC03002133.hg.1 | -2.17 | PSR03037605.hg.1 | ATP13A3 |
| TC03002133.hg.1 | -2.34 | JUC03018633.hg.1 | ATP13A3 |
| TC03002133.hg.1 | -2.45 | JUC03018643.hg.1 | ATP13A3 |
| TC04000826.hg.1 | 2.07 | PSR04011399.hg.1 | KLHL2 |
| TC04000826.hg.1 | -2.15 | PSR04011383.hg.1 | KLHL2 |
| TC04000826.hg.1 | -2.65 | JUC04006112.hg.1 | KLHL2 |
| TC07000524.hg.1 | 2.07 | JUC07003588.hg.1 | DBF4 |
| TC07000524.hg.1 | -2.08 | PSR07007462.hg.1 | DBF4 |
| TC07000524.hg.1 | -2.19 | JUC07003574.hg.1 | DBF4 |
| TC08000093.hg.1 | 2.07 | PSR08000912.hg.1 | FDFT1 |
| TC08000093.hg.1 | 2.03 | JUC08000503.hg.1 | FDFT1 |
| TC08001246.hg.1 | 2.07 | PSR08016101.hg.1 | NSMAF |
| TC08001246.hg.1 | -3.15 | JUC08008312.hg.1 | NSMAF |
| TC09001287.hg.1 | 2.07 | PSR09016105.hg.1 | AGTPBP1 |
| TC09001287.hg.1 | -2.31 | JUC09008683.hg.1 | AGTPBP1 |
| TC09001287.hg.1 | -2.37 | JUC09008672.hg.1 | AGTPBP1 |
| TC0X000358.hg.1 | 2.07 | PSR0X004617.hg.1 | AR |
| TC0X000358.hg.1 | -2 | JUC0X002234.hg.1 | AR |
| TC0X000358.hg.1 | -2.3 | PSR0X004649.hg.1 | AR |
| TC0X000358.hg.1 | -2.35 | JUC0X002239.hg.1 | AR |
| TC0X000358.hg.1 | -4.02 | PSR0X004618.hg.1 | AR |

| | | | |
|-----------------|-------|------------------|---------|
| TC0X000969.hg.1 | 2.07 | JUC0X006525.hg.1 | CASK |
| TC0X000969.hg.1 | -2.31 | PSR0X012976.hg.1 | CASK |
| TC0X000969.hg.1 | -2.43 | JUC0X006536.hg.1 | CASK |
| TC0X000969.hg.1 | -2.52 | PSR0X012958.hg.1 | CASK |
| TC0X000969.hg.1 | -2.98 | JUC0X006508.hg.1 | CASK |
| TC10000669.hg.1 | 2.07 | JUC10004302.hg.1 | SLC35G1 |
| TC10000669.hg.1 | -2.07 | PSR10007560.hg.1 | SLC35G1 |
| TC10000669.hg.1 | -2.18 | JUC10004305.hg.1 | SLC35G1 |
| TC11003493.hg.1 | 2.07 | PSR11027401.hg.1 | ALG9 |
| TC11003493.hg.1 | 2.05 | JUC11019695.hg.1 | ALG9 |
| TC11003493.hg.1 | -4.97 | JUC11019676.hg.1 | ALG9 |
| TC17001063.hg.1 | 2.07 | PSR17014237.hg.1 | PITPNM3 |
| TC17001063.hg.1 | -2.65 | PSR17014242.hg.1 | PITPNM3 |
| TC17001063.hg.1 | -2.67 | JUC17008127.hg.1 | PITPNM3 |
| TC17001063.hg.1 | -3.54 | JUC17008117.hg.1 | PITPNM3 |
| TC01002045.hg.1 | 2.06 | JUC01016927.hg.1 | ZNF672 |
| TC01002045.hg.1 | -2.15 | PSR01031177.hg.1 | ZNF672 |
| TC02000599.hg.1 | 2.06 | JUC02005002.hg.1 | INPP4A |
| TC02000599.hg.1 | 2.05 | PSR02009421.hg.1 | INPP4A |
| TC02000599.hg.1 | -2.28 | JUC02005015.hg.1 | INPP4A |
| TC02002372.hg.1 | 2.06 | PSR02037399.hg.1 | ZRANB3 |
| TC02002372.hg.1 | -2.34 | JUC02019395.hg.1 | ZRANB3 |
| TC03001546.hg.1 | 2.06 | PSR03028227.hg.1 | FOXP1 |
| TC03001546.hg.1 | -3.12 | JUC03013881.hg.1 | FOXP1 |
| TC03001546.hg.1 | -3.16 | JUC03013885.hg.1 | FOXP1 |
| TC03003336.hg.1 | 2.06 | JUC03023320.hg.1 | HACL1 |
| TC03003336.hg.1 | -2.22 | PSR03020781.hg.1 | HACL1 |
| TC04000044.hg.1 | 2.06 | PSR04001106.hg.1 | HTT |
| TC04000044.hg.1 | -2.02 | JUC04000468.hg.1 | HTT |
| TC04000196.hg.1 | 2.06 | JUC04001436.hg.1 | PCDH7 |
| TC04000196.hg.1 | -2.63 | PSR04003027.hg.1 | PCDH7 |
| TC04000469.hg.1 | 2.06 | JUC04003403.hg.1 | PTPN13 |
| TC04000469.hg.1 | 2.04 | JUC04003418.hg.1 | PTPN13 |
| TC04000469.hg.1 | -2.1 | JUC04003406.hg.1 | PTPN13 |
| TC04000469.hg.1 | -2.46 | JUC04003443.hg.1 | PTPN13 |
| TC04000469.hg.1 | -2.59 | PSR04006713.hg.1 | PTPN13 |
| TC04000469.hg.1 | -2.59 | PSR04006759.hg.1 | PTPN13 |
| TC04000469.hg.1 | -2.73 | JUC04003407.hg.1 | PTPN13 |
| TC04000469.hg.1 | -3.07 | PSR04006712.hg.1 | PTPN13 |
| TC04000469.hg.1 | -3.07 | PSR04006736.hg.1 | PTPN13 |
| TC04000469.hg.1 | -3.21 | JUC04003399.hg.1 | PTPN13 |
| TC04000469.hg.1 | -3.68 | PSR04006714.hg.1 | PTPN13 |
| TC05001307.hg.1 | 2.06 | JUC05009501.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.21 | PSR05018470.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.32 | PSR05018463.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.39 | PSR05018478.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.48 | PSR05018467.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.62 | PSR05018484.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.63 | PSR05018474.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.67 | PSR05018469.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.86 | PSR05018464.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.88 | PSR05018486.hg.1 | OXCT1 |
| TC05001307.hg.1 | -2.99 | JUC05009495.hg.1 | OXCT1 |
| TC05001307.hg.1 | -3.03 | PSR05018458.hg.1 | OXCT1 |
| TC05001307.hg.1 | -5.08 | JUC05009515.hg.1 | OXCT1 |
| TC05001307.hg.1 | -6.23 | JUC05009509.hg.1 | OXCT1 |
| TC07001543.hg.1 | 2.06 | PSR07023218.hg.1 | POMZP3 |
| TC07001543.hg.1 | -2.12 | PSR07023222.hg.1 | POMZP3 |

| | | | |
|-----------------|-------|------------------|------------|
| TC07001543.hg.1 | -2.97 | JUC07011494.hg.1 | POMZP3 |
| TC07001614.hg.1 | 2.06 | PSR07024486.hg.1 | SGCE |
| TC07001614.hg.1 | -2.06 | JUC07012208.hg.1 | SGCE |
| TC07001614.hg.1 | -2.64 | JUC07012204.hg.1 | SGCE |
| TC08000003.hg.1 | 2.06 | JUC08000020.hg.1 | FBXO25 |
| TC08000003.hg.1 | -2.16 | PSR08000079.hg.1 | FBXO25 |
| TC08000003.hg.1 | -3.01 | JUC08000030.hg.1 | FBXO25 |
| TC09000092.hg.1 | 2.06 | PSR09001124.hg.1 | DENND4C |
| TC09000092.hg.1 | -2.91 | JUC09000597.hg.1 | DENND4C |
| TC09000092.hg.1 | -3.01 | JUC09000602.hg.1 | DENND4C |
| TC10000949.hg.1 | 2.06 | PSR10011759.hg.1 | KNDC1 |
| TC10000949.hg.1 | -2.27 | JUC10006849.hg.1 | KNDC1 |
| TC10000949.hg.1 | -3.35 | PSR10011755.hg.1 | KNDC1 |
| TC10001279.hg.1 | 2.06 | PSR10015993.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.12 | JUC10009319.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.12 | JUC10009321.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.13 | PSR10016040.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.24 | PSR10016018.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.36 | JUC10009294.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.47 | JUC10009316.hg.1 | AGAP8, PAR |
| TC10001279.hg.1 | -2.47 | JUC10009318.hg.1 | AGAP8, PAR |
| TC11001548.hg.1 | 2.06 | JUC11010368.hg.1 | APIP |
| TC11001548.hg.1 | -2.51 | JUC11010370.hg.1 | APIP |
| TC11001548.hg.1 | -2.92 | PSR11019466.hg.1 | APIP |
| TC12001201.hg.1 | 2.06 | JUC12008777.hg.1 | DDX12P, DD |
| TC12001201.hg.1 | 2.01 | PSR12015872.hg.1 | DDX12P, DD |
| TC12001201.hg.1 | -2.05 | PSR12015873.hg.1 | DDX12P, DD |
| TC12001505.hg.1 | 2.06 | PSR12019797.hg.1 | POU6F1 |
| TC12001505.hg.1 | -2.32 | JUC12010979.hg.1 | POU6F1 |
| TC12003266.hg.1 | 2.06 | JUC12020262.hg.1 | PXMP2 |
| TC12003266.hg.1 | -2.55 | PSR12014041.hg.1 | PXMP2 |
| TC12003278.hg.1 | 2.06 | JUC12020425.hg.1 | SARNP |
| TC12003278.hg.1 | -2.12 | JUC12020419.hg.1 | SARNP |
| TC12003278.hg.1 | -3.03 | PSR12021035.hg.1 | SARNP |
| TC13000176.hg.1 | 2.06 | JUC13001285.hg.1 | COG3 |
| TC13000176.hg.1 | 2.05 | JUC13001270.hg.1 | COG3 |
| TC13000176.hg.1 | -2.06 | JUC13001282.hg.1 | COG3 |
| TC13000176.hg.1 | -2.35 | PSR13002052.hg.1 | COG3 |
| TC13000176.hg.1 | -2.77 | JUC13001271.hg.1 | COG3 |
| TC14000988.hg.1 | 2.06 | JUC14005646.hg.1 | NOVA1 |
| TC14000988.hg.1 | 2.01 | PSR14011323.hg.1 | NOVA1 |
| TC14000988.hg.1 | -2.52 | PSR14011331.hg.1 | NOVA1 |
| TC15001588.hg.1 | 2.06 | PSR15015288.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.45 | PSR15015304.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.56 | JUC15008303.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.6 | JUC15008314.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.61 | JUC15008315.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.63 | JUC15008321.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.72 | JUC15008305.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.87 | PSR15015290.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -2.91 | JUC15008309.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.1 | PSR15015311.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.19 | PSR15015299.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.53 | PSR15015307.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.57 | JUC15008311.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.72 | PSR15015302.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.81 | PSR15015303.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -3.91 | PSR15015298.hg.1 | IQCH-AS1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC15001588.hg.1 | -4.08 | PSR15015295.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -4.12 | JUC15008306.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -4.4 | PSR15015300.hg.1 | IQCH-AS1 |
| TC15001588.hg.1 | -8.64 | JUC15008310.hg.1 | IQCH-AS1 |
| TC17000848.hg.1 | 2.06 | PSR17010933.hg.1 | NUP85 |
| TC17000848.hg.1 | 2.04 | JUC17006025.hg.1 | NUP85 |
| TC17001899.hg.1 | 2.06 | PSR17025795.hg.1 | RHBDF2 |
| TC17001899.hg.1 | 2.03 | JUC17014500.hg.1 | RHBDF2 |
| TC17001899.hg.1 | -2.07 | PSR17025777.hg.1 | RHBDF2 |
| TC17001899.hg.1 | -2.14 | JUC17014503.hg.1 | RHBDF2 |
| TC17001899.hg.1 | -2.7 | PSR17025779.hg.1 | RHBDF2 |
| TC17001899.hg.1 | -2.79 | PSR17025778.hg.1 | RHBDF2 |
| TC17001899.hg.1 | -7.48 | JUC17014495.hg.1 | RHBDF2 |
| TC18000048.hg.1 | 2.06 | JUC18000337.hg.1 | TXNDC2 |
| TC18000048.hg.1 | -3.29 | PSR18000525.hg.1 | TXNDC2 |
| TC21000245.hg.1 | 2.06 | PSR21002907.hg.1 | COL18A1 |
| TC21000245.hg.1 | -2.3 | PSR21002940.hg.1 | COL18A1 |
| TC21000245.hg.1 | -2.35 | PSR21002942.hg.1 | COL18A1 |
| TC21000245.hg.1 | -2.58 | JUC21001503.hg.1 | COL18A1 |
| TC21000245.hg.1 | -3.68 | JUC21001509.hg.1 | COL18A1 |
| TC21000245.hg.1 | -3.72 | JUC21001524.hg.1 | COL18A1 |
| TC22000078.hg.1 | 2.06 | PSR22001210.hg.1 | P2RX6 |
| TC22000078.hg.1 | -2.03 | PSR22001209.hg.1 | P2RX6 |
| TC22000078.hg.1 | -2.09 | JUC22000485.hg.1 | P2RX6 |
| TC22000078.hg.1 | -2.79 | JUC22000481.hg.1 | P2RX6 |
| TC22000078.hg.1 | -3.97 | PSR22001217.hg.1 | P2RX6 |
| TC22000914.hg.1 | 2.06 | PSR22015609.hg.1 | LMF2 |
| TC22000914.hg.1 | 2.03 | PSR22015606.hg.1 | LMF2 |
| TC22000914.hg.1 | 2 | JUC22006589.hg.1 | LMF2 |
| TC01000261.hg.1 | 2.05 | JUC01002194.hg.1 | CDA |
| TC01000261.hg.1 | -2.04 | PSR01004082.hg.1 | CDA |
| TC01000261.hg.1 | -2.52 | JUC01002196.hg.1 | CDA |
| TC01001981.hg.1 | 2.05 | JUC01016701.hg.1 | SDCCAG8 |
| TC01001981.hg.1 | -2.06 | PSR01030716.hg.1 | SDCCAG8 |
| TC01003697.hg.1 | 2.05 | PSR01056755.hg.1 | LMOD1 |
| TC01003697.hg.1 | -2.29 | JUC01029618.hg.1 | LMOD1 |
| TC01003697.hg.1 | -2.33 | PSR01056764.hg.1 | LMOD1 |
| TC03001273.hg.1 | 2.05 | JUC03010857.hg.1 | GLB1, TMPPI |
| TC03001273.hg.1 | -2.06 | PSR03021762.hg.1 | GLB1, TMPPI |
| TC03001273.hg.1 | -2.15 | PSR03021771.hg.1 | GLB1, TMPPI |
| TC03001273.hg.1 | -2.59 | JUC03010834.hg.1 | GLB1, TMPPI |
| TC04000213.hg.1 | 2.05 | JUC04001508.hg.1 | PGM2 |
| TC04000213.hg.1 | 2.02 | JUC04001519.hg.1 | PGM2 |
| TC04000213.hg.1 | -2.23 | PSR04003140.hg.1 | PGM2 |
| TC04000213.hg.1 | -2.92 | JUC04001503.hg.1 | PGM2 |
| TC04001760.hg.1 | 2.05 | PSR04024246.hg.1 | GPM6A |
| TC04001760.hg.1 | -2.66 | JUC04012871.hg.1 | GPM6A |
| TC04001760.hg.1 | -2.77 | JUC04012865.hg.1 | GPM6A |
| TC04002922.hg.1 | 2.05 | JUC04016933.hg.1 | RASGEF1B |
| TC04002922.hg.1 | 2.03 | PSR04018277.hg.1 | RASGEF1B |
| TC04002922.hg.1 | -2.03 | PSR04018258.hg.1 | RASGEF1B |
| TC04002922.hg.1 | -2.12 | PSR04018273.hg.1 | RASGEF1B |
| TC04002922.hg.1 | -2.74 | PSR04018274.hg.1 | RASGEF1B |
| TC04002922.hg.1 | -3.43 | JUC04016942.hg.1 | RASGEF1B |
| TC04002922.hg.1 | -3.49 | PSR04018282.hg.1 | RASGEF1B |
| TC05000074.hg.1 | 2.05 | PSR05000821.hg.1 | 6-Mar |
| TC05000074.hg.1 | -3.04 | JUC05000435.hg.1 | 6-Mar |
| TC06001207.hg.1 | 2.05 | JUC06007146.hg.1 | EXOC2 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC06001207.hg.1 | -2.14 | PSR06014377.hg.1 | EXOC2 |
| TC06001207.hg.1 | -2.23 | JUC06007162.hg.1 | EXOC2 |
| TC06001207.hg.1 | -3.3 | JUC06007143.hg.1 | EXOC2 |
| TC06001298.hg.1 | 2.05 | PSR06015620.hg.1 | KIF13A |
| TC06001298.hg.1 | -2.95 | PSR06015584.hg.1 | KIF13A |
| TC06001298.hg.1 | -3.92 | JUC06007784.hg.1 | KIF13A |
| TC07001262.hg.1 | 2.05 | JUC07009581.hg.1 | RP9P |
| TC07001262.hg.1 | -2.08 | PSR07019692.hg.1 | RP9P |
| TC07001262.hg.1 | -2.16 | PSR07019694.hg.1 | RP9P |
| TC07003336.hg.1 | 2.05 | JUC07021051.hg.1 | CDK14 |
| TC07003336.hg.1 | -2.2 | PSR07007799.hg.1 | CDK14 |
| TC07003336.hg.1 | -2.46 | PSR07007801.hg.1 | CDK14 |
| TC07003336.hg.1 | -2.64 | PSR07007811.hg.1 | CDK14 |
| TC07003336.hg.1 | -3.75 | JUC07021075.hg.1 | CDK14 |
| TC09000535.hg.1 | 2.05 | JUC09003246.hg.1 | SLC44A1 |
| TC09000535.hg.1 | -2.42 | PSR09005847.hg.1 | SLC44A1 |
| TC09000535.hg.1 | -2.57 | JUC09003229.hg.1 | SLC44A1 |
| TC09000535.hg.1 | -2.59 | PSR09005846.hg.1 | SLC44A1 |
| TC09000535.hg.1 | -4.43 | JUC09003242.hg.1 | SLC44A1 |
| TC09000548.hg.1 | 2.05 | PSR09006082.hg.1 | FAM206A |
| TC09000548.hg.1 | -3.8 | JUC09003367.hg.1 | FAM206A |
| TC09000649.hg.1 | 2.05 | JUC09004179.hg.1 | GAPVD1 |
| TC09000649.hg.1 | -2.14 | JUC09004161.hg.1 | GAPVD1 |
| TC09000649.hg.1 | -2.5 | JUC09004194.hg.1 | GAPVD1 |
| TC09000649.hg.1 | -2.57 | PSR09007493.hg.1 | GAPVD1 |
| TC09000649.hg.1 | -3.07 | JUC09004185.hg.1 | GAPVD1 |
| TC09000826.hg.1 | 2.05 | JUC09005864.hg.1 | TRAF2 |
| TC09000826.hg.1 | -2.12 | PSR09010820.hg.1 | TRAF2 |
| TC09000826.hg.1 | -2.46 | JUC09005870.hg.1 | TRAF2 |
| TC09001298.hg.1 | 2.05 | PSR09016283.hg.1 | |
| TC09001298.hg.1 | -2.38 | JUC09008748.hg.1 | |
| TC09001298.hg.1 | -3.75 | PSR09016280.hg.1 | |
| TC13000626.hg.1 | 2.05 | PSR13007101.hg.1 | NUFIP1 |
| TC13000626.hg.1 | -2.94 | JUC13004138.hg.1 | NUFIP1 |
| TC14000084.hg.1 | 2.05 | PSR14000506.hg.1 | C14orf176 |
| TC14000084.hg.1 | -2.22 | JUC14000209.hg.1 | C14orf176 |
| TC17000663.hg.1 | 2.05 | PSR17008321.hg.1 | XYLT2 |
| TC17000663.hg.1 | -2.23 | JUC17004598.hg.1 | XYLT2 |
| TC19000526.hg.1 | 2.05 | JUC19004156.hg.1 | CATSPERG |
| TC19000526.hg.1 | -2.05 | PSR19006995.hg.1 | CATSPERG |
| TC19000526.hg.1 | -2.17 | PSR19006992.hg.1 | CATSPERG |
| TC19000526.hg.1 | -2.21 | PSR19006989.hg.1 | CATSPERG |
| TC19000526.hg.1 | -2.48 | JUC19004157.hg.1 | CATSPERG |
| TC18000440.hg.1 | 2.05 | JUC18003026.hg.1 | B4GALT6 |
| TC18000440.hg.1 | 2 | PSR18004501.hg.1 | B4GALT6 |
| TC18000440.hg.1 | -2.47 | JUC18003028.hg.1 | B4GALT6 |
| TC18000440.hg.1 | -2.54 | JUC18003027.hg.1 | B4GALT6 |
| TC01002479.hg.1 | 2.04 | JUC01020616.hg.1 | AK2 |
| TC01002479.hg.1 | -2.02 | PSR01038327.hg.1 | AK2 |
| TC01002479.hg.1 | -2.08 | JUC01020611.hg.1 | AK2 |
| TC01002479.hg.1 | -2.21 | PSR01038334.hg.1 | AK2 |
| TC01002479.hg.1 | -2.61 | PSR01038339.hg.1 | AK2 |
| TC02000547.hg.1 | 2.04 | PSR02008489.hg.1 | ANKRD36BP |
| TC02000547.hg.1 | -2.08 | JUC02004352.hg.1 | ANKRD36BP |
| TC02000547.hg.1 | -2.22 | JUC02004344.hg.1 | ANKRD36BP |
| TC02000547.hg.1 | -2.38 | PSR02008487.hg.1 | ANKRD36BP |
| TC02002024.hg.1 | 2.04 | PSR02032416.hg.1 | LRRTM1 |
| TC02002024.hg.1 | -2.52 | JUC02016749.hg.1 | LRRTM1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC0300042.hg.1 | 2.04 | JUC03000485.hg.1 | OGG1 |
| TC0300042.hg.1 | -2.01 | PSR03000854.hg.1 | OGG1 |
| TC04001332.hg.1 | 2.04 | PSR04018329.hg.1 | HNRNPD |
| TC04001332.hg.1 | -2.29 | JUC04009721.hg.1 | HNRNPD |
| TC06000104.hg.1 | 2.04 | PSR06001082.hg.1 | JARID2 |
| TC06000104.hg.1 | -2.25 | JUC06000486.hg.1 | JARID2 |
| TC06000577.hg.1 | 2.04 | PSR06006478.hg.1 | BYSL |
| TC06000577.hg.1 | -5.03 | JUC06002760.hg.1 | BYSL |
| TC08001494.hg.1 | 2.04 | JUC08009914.hg.1 | NCALD |
| TC08001494.hg.1 | 2.03 | JUC08009934.hg.1 | NCALD |
| TC08001494.hg.1 | -2.34 | PSR08019549.hg.1 | NCALD |
| TC08001494.hg.1 | -2.99 | JUC08009899.hg.1 | NCALD |
| TC09000442.hg.1 | 2.04 | JUC09002576.hg.1 | C9orf89 |
| TC09000442.hg.1 | 2.02 | PSR09004723.hg.1 | C9orf89 |
| TC09001095.hg.1 | 2.04 | JUC09007845.hg.1 | LOC653501, |
| TC09001095.hg.1 | -3.4 | PSR09014635.hg.1 | LOC653501, |
| TC0X002345.hg.1 | 2.04 | JUC0X013295.hg.1 | LOC1001314 |
| TC0X002345.hg.1 | 2.03 | PSR0X019216.hg.1 | LOC1001314 |
| TC0X002345.hg.1 | -2.09 | PSR0X019207.hg.1 | LOC1001314 |
| TC0X002345.hg.1 | -2.91 | PSR0X019208.hg.1 | LOC1001314 |
| TC0X002345.hg.1 | -3.71 | PSR0X019209.hg.1 | LOC1001314 |
| TC10000759.hg.1 | 2.04 | PSR10009025.hg.1 | SUFU |
| TC10000759.hg.1 | -3.49 | JUC10005030.hg.1 | SUFU |
| TC11001289.hg.1 | 2.04 | PSR11016363.hg.1 | CARS |
| TC11001289.hg.1 | -2.36 | JUC11008796.hg.1 | CARS |
| TC11001289.hg.1 | -2.66 | JUC11008805.hg.1 | CARS |
| TC11001289.hg.1 | -2.85 | PSR11016391.hg.1 | CARS |
| TC12001224.hg.1 | 2.04 | PSR12016133.hg.1 | KLRAP1 |
| TC12001224.hg.1 | 2.01 | JUC12008909.hg.1 | KLRAP1 |
| TC12001224.hg.1 | -2.06 | JUC12008897.hg.1 | KLRAP1 |
| TC12001224.hg.1 | -2.11 | PSR12016150.hg.1 | KLRAP1 |
| TC12001224.hg.1 | -3.71 | JUC12008899.hg.1 | KLRAP1 |
| TC12001756.hg.1 | 2.04 | PSR12023287.hg.1 | E2F7 |
| TC12001756.hg.1 | -2.09 | PSR12023284.hg.1 | E2F7 |
| TC12001756.hg.1 | -2.15 | JUC12012858.hg.1 | E2F7 |
| TC12001756.hg.1 | -2.55 | JUC12012861.hg.1 | E2F7 |
| TC14001346.hg.1 | 2.04 | PSR14015304.hg.1 | C14orf133 |
| TC14001346.hg.1 | -2.8 | JUC14007762.hg.1 | C14orf133 |
| TC14001346.hg.1 | -2.83 | JUC14007773.hg.1 | C14orf133 |
| TC15000731.hg.1 | 2.04 | JUC15003348.hg.1 | PSMA4 |
| TC15000731.hg.1 | -2.05 | JUC15003339.hg.1 | PSMA4 |
| TC15000731.hg.1 | -2.87 | PSR15006574.hg.1 | PSMA4 |
| TC17000250.hg.1 | 2.04 | JUC17001986.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.03 | PSR17003450.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.09 | PSR17003452.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.25 | JUC17001995.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.37 | PSR17003473.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.37 | JUC17001980.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.43 | PSR17003465.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.57 | PSR17003454.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.85 | JUC17002000.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.92 | PSR17003461.hg.1 | SPECC1 |
| TC17000250.hg.1 | -2.94 | PSR17003453.hg.1 | SPECC1 |
| TC17000250.hg.1 | -8.97 | JUC17001988.hg.1 | SPECC1 |
| TC18000002.hg.1 | 2.04 | JUC18000001.hg.1 | ROCK1P1 |
| TC18000002.hg.1 | -2.28 | PSR18000002.hg.1 | ROCK1P1 |
| TC19000081.hg.1 | 2.04 | PSR19001304.hg.1 | CREB3L3 |
| TC19000081.hg.1 | -2.51 | JUC19000733.hg.1 | CREB3L3 |

| | | | |
|-----------------|-------|-------------------|--------------|
| TC20000038.hg.1 | 2.04 | PSR20000604.hg.1 | ATRN |
| TC20000038.hg.1 | -2.09 | JUC20000268.hg.1 | ATRN |
| TC6_qbl_hap6000 | 2.04 | PSR6_qbl_hap60035 | NOTCH4 |
| TC6_qbl_hap6000 | 2.03 | JUC6_qbl_hap60013 | NOTCH4 |
| TC6_qbl_hap6000 | -2.01 | JUC6_qbl_hap60013 | NOTCH4 |
| TC07000778.hg.1 | 2.04 | JUC07005742.hg.1 | FAM71F2 |
| TC07000778.hg.1 | -2 | PSR07012258.hg.1 | FAM71F2 |
| TC07000778.hg.1 | -2.85 | JUC07005749.hg.1 | FAM71F2 |
| TC01003080.hg.1 | 2.03 | JUC01025649.hg.1 | FLJ39739, LC |
| TC01003080.hg.1 | -2.36 | PSR01047781.hg.1 | FLJ39739, LC |
| TC01003080.hg.1 | -4.89 | JUC01025644.hg.1 | FLJ39739, LC |
| TC01003203.hg.1 | 2.03 | PSR01049115.hg.1 | |
| TC01003203.hg.1 | 2.03 | JUC01026119.hg.1 | |
| TC02001818.hg.1 | 2.03 | JUC02015295.hg.1 | MCFD2 |
| TC02001818.hg.1 | -2.38 | PSR02029094.hg.1 | MCFD2 |
| TC03000868.hg.1 | 2.03 | JUC03007853.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2 | PSR03015472.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.06 | PSR03015422.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.18 | PSR03015460.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.21 | PSR03015466.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.22 | PSR03015435.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.23 | PSR03015478.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.32 | PSR03015441.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.33 | PSR03015415.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.33 | PSR03015428.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.52 | PSR03015467.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.8 | PSR03015424.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.84 | PSR03015430.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -2.9 | PSR03015421.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.02 | PSR03015416.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.19 | PSR03015433.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.22 | JUC03007846.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.55 | JUC03007850.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.67 | PSR03015420.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.77 | JUC03007847.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -3.91 | PSR03015412.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -4.16 | JUC03007854.hg.1 | IQCJ, SCHIP |
| TC03000868.hg.1 | -5.41 | PSR03015434.hg.1 | IQCJ, SCHIP |
| TC04000647.hg.1 | 2.03 | PSR04009366.hg.1 | C4orf29 |
| TC04000647.hg.1 | -2.68 | JUC04005021.hg.1 | C4orf29 |
| TC04001250.hg.1 | 2.03 | JUC04009077.hg.1 | UBA6 |
| TC04001250.hg.1 | -2.68 | PSR04017001.hg.1 | UBA6 |
| TC05000174.hg.1 | 2.03 | JUC05001160.hg.1 | EGFLAM |
| TC05000174.hg.1 | -2.01 | PSR05002020.hg.1 | EGFLAM |
| TC05000174.hg.1 | -2.22 | JUC05001141.hg.1 | EGFLAM |
| TC05000174.hg.1 | -2.29 | JUC05001158.hg.1 | EGFLAM |
| TC05000174.hg.1 | -2.81 | JUC05001147.hg.1 | EGFLAM |
| TC05000302.hg.1 | 2.03 | PSR05004008.hg.1 | RAD17 |
| TC05000302.hg.1 | 2.02 | JUC05002159.hg.1 | RAD17 |
| TC05000400.hg.1 | 2.03 | JUC05003102.hg.1 | MSH3 |
| TC05000400.hg.1 | -2.02 | PSR05005690.hg.1 | MSH3 |
| TC06000421.hg.1 | 2.03 | JUC06001924.hg.1 | KIFC1 |
| TC06000421.hg.1 | -2.07 | PSR06004971.hg.1 | KIFC1 |
| TC06000421.hg.1 | -2.38 | JUC06001925.hg.1 | KIFC1 |
| TC06000421.hg.1 | -2.39 | JUC06001917.hg.1 | KIFC1 |
| TC06000856.hg.1 | 2.03 | JUC06004716.hg.1 | SOBP |
| TC06000856.hg.1 | -2.19 | PSR06010063.hg.1 | SOBP |
| TC06000856.hg.1 | -2.19 | JUC06004722.hg.1 | SOBP |

| | | | |
|------------------|-------|-------------------|------------|
| TC06001507.hg.1 | 2.03 | PSR06017067.hg.1 | MDC1 |
| TC06001507.hg.1 | 2 | JUC06008395.hg.1 | MDC1 |
| TC06001507.hg.1 | -2.85 | JUC06008399.hg.1 | MDC1 |
| TC07000796.hg.1 | 2.03 | PSR07012557.hg.1 | AHCYL2 |
| TC07000796.hg.1 | -2 | JUC07005925.hg.1 | AHCYL2 |
| TC08000685.hg.1 | 2.03 | PSR08009297.hg.1 | SLC30A8 |
| TC08000685.hg.1 | -2.01 | JUC08004746.hg.1 | SLC30A8 |
| TC09000450.hg.1 | 2.03 | PSR09004850.hg.1 | PHF2 |
| TC09000450.hg.1 | -2.53 | JUC09002676.hg.1 | PHF2 |
| TC0X002360.hg.1 | 2.03 | JUC0X013482.hg.1 | LOC1002877 |
| TC0X002360.hg.1 | -2.34 | JUC0X013469.hg.1 | LOC1002877 |
| TC0X002360.hg.1 | -2.58 | JUC0X013473.hg.1 | LOC1002877 |
| TC0X002360.hg.1 | -3.39 | PSR0X006536.hg.1 | LOC1002877 |
| TC0X002360.hg.1 | -3.49 | JUC0X013478.hg.1 | LOC1002877 |
| TC0X002360.hg.1 | -3.66 | JUC0X013481.hg.1 | LOC1002877 |
| TC10000256.hg.1 | 2.03 | PSR10002963.hg.1 | HSD17B7P2 |
| TC10000256.hg.1 | -2.43 | JUC10001679.hg.1 | HSD17B7P2 |
| TC11000673.hg.1 | 2.03 | PSR11008596.hg.1 | RBM14, RBM |
| TC11000673.hg.1 | 2.03 | PSR11008597.hg.1 | RBM14, RBM |
| TC11000673.hg.1 | -2.28 | JUC11004417.hg.1 | RBM14, RBM |
| TC11000673.hg.1 | -2.34 | PSR11008563.hg.1 | RBM14, RBM |
| TC11000673.hg.1 | -2.35 | JUC11004422.hg.1 | RBM14, RBM |
| TC11000673.hg.1 | -2.73 | JUC11004428.hg.1 | RBM14, RBM |
| TC11000673.hg.1 | -2.87 | PSR11008557.hg.1 | RBM14, RBM |
| TC14000463.hg.1 | 2.03 | PSR14005796.hg.1 | YLPM1, LOC |
| TC14000463.hg.1 | -2.02 | JUC14002967.hg.1 | YLPM1, LOC |
| TC14000463.hg.1 | -2.02 | JUC14002979.hg.1 | YLPM1, LOC |
| TC14000463.hg.1 | -2.05 | JUC14002977.hg.1 | YLPM1, LOC |
| TC14000463.hg.1 | -2.8 | JUC14002973.hg.1 | YLPM1, LOC |
| TC14000463.hg.1 | -3.13 | JUC14002974.hg.1 | YLPM1, LOC |
| TC15001110.hg.1 | 2.03 | JUC15005347.hg.1 | TJP1 |
| TC15001110.hg.1 | -2.34 | PSR15010138.hg.1 | TJP1 |
| TC15001456.hg.1 | 2.03 | JUC15007251.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.03 | PSR15013531.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.08 | JUC15007267.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.47 | JUC15007257.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.71 | JUC15007235.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.79 | JUC15007246.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.9 | JUC15007256.hg.1 | MYO5A |
| TC15001456.hg.1 | -2.95 | JUC15007266.hg.1 | MYO5A |
| TC15001456.hg.1 | -3.08 | JUC15007238.hg.1 | MYO5A |
| TC17000376.hg.1 | 2.03 | PSR17004790.hg.1 | PSMD11 |
| TC17000376.hg.1 | -2.04 | JUC17002754.hg.1 | PSMD11 |
| TC21000484.hg.1 | 2.03 | PSR21005871.hg.1 | TFF3 |
| TC21000484.hg.1 | -2.32 | JUC21003038.hg.1 | TFF3 |
| TC22000608.hg.1 | 2.03 | PSR22010581.hg.1 | HPS4 |
| TC22000608.hg.1 | 2 | JUC22004301.hg.1 | HPS4 |
| TC22000608.hg.1 | -2.4 | PSR22010620.hg.1 | HPS4 |
| TC22000608.hg.1 | -2.83 | JUC22004309.hg.1 | HPS4 |
| TC6_qbl_hap6000 | 2.03 | PSR6_qbl_hap60041 | TAPBP |
| TC6_qbl_hap6000 | -3.43 | JUC6_qbl_hap60016 | TAPBP |
| TC6_ssto_hap7000 | 2.03 | JUC6_ssto_hap7000 | KIFC1 |
| TC6_ssto_hap7000 | -2.07 | PSR6_ssto_hap7001 | KIFC1 |
| TC6_ssto_hap7000 | -2.38 | JUC6_ssto_hap7000 | KIFC1 |
| TC6_ssto_hap7000 | -2.39 | JUC6_ssto_hap7000 | KIFC1 |
| TC01000132.hg.1 | 2.02 | PSR01002122.hg.1 | PEX14 |
| TC01000132.hg.1 | -2.2 | JUC01001153.hg.1 | PEX14 |
| TC01000132.hg.1 | -2.33 | JUC01001140.hg.1 | PEX14 |

| | | | |
|-----------------|-------|------------------|---------|
| TC01002868.hg.1 | 2.02 | PSR01044735.hg.1 | EVI5 |
| TC01002868.hg.1 | 2.01 | JUC01024031.hg.1 | EVI5 |
| TC01002868.hg.1 | -2.08 | JUC01024034.hg.1 | EVI5 |
| TC01003392.hg.1 | 2.02 | PSR01052963.hg.1 | TAGLN2 |
| TC01003392.hg.1 | 2.02 | JUC01027711.hg.1 | TAGLN2 |
| TC01003392.hg.1 | 2 | JUC01027716.hg.1 | TAGLN2 |
| TC01003881.hg.1 | 2.02 | JUC01030977.hg.1 | NVL |
| TC01003881.hg.1 | -2.08 | PSR01059118.hg.1 | NVL |
| TC01003881.hg.1 | -2.77 | JUC01031002.hg.1 | NVL |
| TC02000925.hg.1 | 2.02 | JUC02007202.hg.1 | MBD5 |
| TC02000925.hg.1 | -2.01 | JUC02007191.hg.1 | MBD5 |
| TC02000925.hg.1 | -2.04 | PSR02013486.hg.1 | MBD5 |
| TC02000925.hg.1 | -2.05 | JUC02007190.hg.1 | MBD5 |
| TC02000925.hg.1 | -2.05 | JUC02007207.hg.1 | MBD5 |
| TC02000925.hg.1 | -2.1 | JUC02007200.hg.1 | MBD5 |
| TC02000925.hg.1 | -2.16 | JUC02007201.hg.1 | MBD5 |
| TC02000925.hg.1 | -3.59 | JUC02007197.hg.1 | MBD5 |
| TC02001334.hg.1 | 2.02 | PSR02020927.hg.1 | SLC4A3 |
| TC02001334.hg.1 | -2.07 | JUC02011161.hg.1 | SLC4A3 |
| TC02001334.hg.1 | -2.12 | JUC02011142.hg.1 | SLC4A3 |
| TC02001778.hg.1 | 2.02 | JUC02015015.hg.1 | COX7A2L |
| TC02001778.hg.1 | -2.12 | PSR02028612.hg.1 | COX7A2L |
| TC02001778.hg.1 | -4.24 | JUC02015012.hg.1 | COX7A2L |
| TC02002104.hg.1 | 2.02 | PSR02033998.hg.1 | STARD7 |
| TC02002104.hg.1 | -2.26 | JUC02017505.hg.1 | STARD7 |
| TC03000863.hg.1 | 2.02 | JUC03007713.hg.1 | C3orf55 |
| TC03000863.hg.1 | -2.02 | PSR03015208.hg.1 | C3orf55 |
| TC03000863.hg.1 | -2.07 | PSR03015200.hg.1 | C3orf55 |
| TC03000863.hg.1 | -2.33 | PSR03015191.hg.1 | C3orf55 |
| TC03000863.hg.1 | -3.27 | PSR03015205.hg.1 | C3orf55 |
| TC03000863.hg.1 | -3.41 | PSR03015210.hg.1 | C3orf55 |
| TC03003381.hg.1 | 2.02 | JUC03024143.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.04 | PSR03024296.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.07 | PSR03024278.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.18 | PSR03024274.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.24 | PSR03024246.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.28 | PSR03024263.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.44 | PSR03024268.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.5 | PSR03024255.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.57 | PSR03024299.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.63 | JUC03024138.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.76 | PSR03024259.hg.1 | SLC26A6 |
| TC03003381.hg.1 | -2.95 | PSR03024236.hg.1 | SLC26A6 |
| TC04000653.hg.1 | 2.02 | JUC04005099.hg.1 | C4orf33 |
| TC04000653.hg.1 | -2.1 | PSR04009517.hg.1 | C4orf33 |
| TC04000653.hg.1 | -2.13 | PSR04009526.hg.1 | C4orf33 |
| TC04000653.hg.1 | -2.5 | PSR04009514.hg.1 | C4orf33 |
| TC04001577.hg.1 | 2.02 | JUC04011625.hg.1 | ELF2 |
| TC04001577.hg.1 | -2.35 | JUC04011613.hg.1 | ELF2 |
| TC04001577.hg.1 | -2.6 | PSR04022020.hg.1 | ELF2 |
| TC04001577.hg.1 | -3.12 | PSR04022021.hg.1 | ELF2 |
| TC05001934.hg.1 | 2.02 | JUC05013633.hg.1 | CAMK2A |
| TC05001934.hg.1 | -2.68 | PSR05026782.hg.1 | CAMK2A |
| TC09000755.hg.1 | 2.02 | JUC09005341.hg.1 | NTNG2 |
| TC09000755.hg.1 | -2.16 | PSR09009729.hg.1 | NTNG2 |
| TC09001616.hg.1 | 2.02 | JUC09010996.hg.1 | PIP5KL1 |
| TC09001616.hg.1 | -2.01 | PSR09020374.hg.1 | PIP5KL1 |
| TC09001616.hg.1 | -2.19 | JUC09010985.hg.1 | PIP5KL1 |

| | | | |
|-----------------|-------|------------------|------------|
| TC09001616.hg.1 | -2.44 | JUC09010997.hg.1 | PIP5KL1 |
| TC09001616.hg.1 | -2.6 | PSR09020376.hg.1 | PIP5KL1 |
| TC0X000223.hg.1 | 2.02 | JUC0X001358.hg.1 | PHF16 |
| TC0X000223.hg.1 | -2.03 | PSR0X002488.hg.1 | PHF16 |
| TC0X000223.hg.1 | -2.25 | JUC0X001353.hg.1 | PHF16 |
| TC11002195.hg.1 | 2.02 | PSR11026251.hg.1 | SNORA32, S |
| TC11002195.hg.1 | -2.62 | PSR11026237.hg.1 | SNORA32, S |
| TC11002195.hg.1 | -3.64 | JUC11013957.hg.1 | SNORA32, S |
| TC14000584.hg.1 | 2.02 | PSR14007200.hg.1 | IFI27 |
| TC14000584.hg.1 | -2.3 | JUC14003715.hg.1 | IFI27 |
| TC16000470.hg.1 | 2.02 | JUC16003639.hg.1 | MT1DP |
| TC16000470.hg.1 | -2.23 | PSR16006502.hg.1 | MT1DP |
| TC16000470.hg.1 | -3.39 | PSR16006499.hg.1 | MT1DP |
| TC17000592.hg.1 | 2.02 | JUC17004100.hg.1 | MAPT |
| TC17000592.hg.1 | -2.83 | PSR17007253.hg.1 | MAPT |
| TC17000970.hg.1 | 2.02 | PSR17012867.hg.1 | ABR |
| TC17000970.hg.1 | -2.14 | JUC17007327.hg.1 | ABR |
| TC17002893.hg.1 | 2.02 | PSR17016533.hg.1 | USP32P2 |
| TC17002893.hg.1 | -2.25 | JUC17018906.hg.1 | USP32P2 |
| TC17002893.hg.1 | -4.49 | JUC17018907.hg.1 | USP32P2 |
| TC18000527.hg.1 | 2.02 | JUC18003704.hg.1 | TCF4 |
| TC18000527.hg.1 | -2.07 | PSR18005486.hg.1 | TCF4 |
| TC18000527.hg.1 | -2.37 | JUC18003672.hg.1 | TCF4 |
| TC18000527.hg.1 | -2.71 | JUC18003673.hg.1 | TCF4 |
| TC18000527.hg.1 | -4.98 | JUC18003688.hg.1 | TCF4 |
| TC6_mann_hap400 | 2.02 | JUC6_mann_hap400 | HLA-H |
| TC6_mann_hap400 | -2.24 | PSR6_mann_hap400 | HLA-H |
| TC02000353.hg.1 | 2.01 | PSR02005308.hg.1 | AHSA2 |
| TC02000353.hg.1 | -2.02 | JUC02002757.hg.1 | AHSA2 |
| TC02000353.hg.1 | -2.14 | JUC02002749.hg.1 | AHSA2 |
| TC02001089.hg.1 | 2.01 | JUC02008673.hg.1 | DNAJC10 |
| TC02001089.hg.1 | -2.09 | JUC02008684.hg.1 | DNAJC10 |
| TC02001089.hg.1 | -2.36 | PSR02016321.hg.1 | DNAJC10 |
| TC02001089.hg.1 | -3.03 | JUC02008691.hg.1 | DNAJC10 |
| TC02001477.hg.1 | 2.01 | JUC02012463.hg.1 | 2-Sep |
| TC02001477.hg.1 | -2.37 | PSR02023971.hg.1 | 2-Sep |
| TC02001477.hg.1 | -3.43 | JUC02012464.hg.1 | 2-Sep |
| TC02002591.hg.1 | 2.01 | PSR02041557.hg.1 | FRZB |
| TC02002591.hg.1 | -3.2 | JUC02021635.hg.1 | FRZB |
| TC02004960.hg.1 | 2.01 | PSR02003695.hg.1 | ARHGEF33 |
| TC02004960.hg.1 | -2.61 | JUC02031679.hg.1 | ARHGEF33 |
| TC03000193.hg.1 | 2.01 | JUC03002050.hg.1 | EXOG |
| TC03000193.hg.1 | -2.02 | PSR03003800.hg.1 | EXOG |
| TC03000193.hg.1 | -2.14 | PSR03003763.hg.1 | EXOG |
| TC03000193.hg.1 | -2.41 | PSR03003764.hg.1 | EXOG |
| TC03000867.hg.1 | 2.01 | JUC03007797.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.01 | PSR03015354.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.02 | PSR03015356.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.14 | PSR03015390.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.23 | JUC03007819.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.29 | PSR03015352.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.45 | JUC03007802.hg.1 | MFSD1 |
| TC03000867.hg.1 | -2.76 | JUC03007807.hg.1 | MFSD1 |
| TC05000498.hg.1 | 2.01 | PSR05007014.hg.1 | PIIP5K2 |
| TC05000498.hg.1 | -2 | JUC05003865.hg.1 | PIIP5K2 |
| TC05000498.hg.1 | -2.04 | JUC05003839.hg.1 | PIIP5K2 |
| TC05000498.hg.1 | -2.34 | JUC05003861.hg.1 | PIIP5K2 |
| TC05000498.hg.1 | -4.36 | JUC05003847.hg.1 | PIIP5K2 |

| | | | |
|-----------------|-------|------------------|----------|
| TC05000935.hg.1 | 2.01 | JUC05007064.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -2.12 | PSR05013587.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -2.23 | PSR05013593.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -2.3 | PSR05013596.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -2.48 | PSR05013594.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -2.66 | JUC05007055.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -2.99 | PSR05013601.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -3.16 | PSR05013606.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -4.74 | PSR05013592.hg.1 | KCNIP1 |
| TC05000935.hg.1 | -6.17 | JUC05007056.hg.1 | KCNIP1 |
| TC06000572.hg.1 | 2.01 | JUC06002740.hg.1 | MDF1 |
| TC06000572.hg.1 | -2.04 | PSR06006418.hg.1 | MDF1 |
| TC06000572.hg.1 | -2.17 | PSR06006431.hg.1 | MDF1 |
| TC06000572.hg.1 | -2.26 | JUC06002732.hg.1 | MDF1 |
| TC06002143.hg.1 | 2.01 | JUC06013392.hg.1 | BCLAF1 |
| TC06002143.hg.1 | -2.06 | PSR06026990.hg.1 | BCLAF1 |
| TC06002143.hg.1 | -2.36 | PSR06026982.hg.1 | BCLAF1 |
| TC06002143.hg.1 | -2.83 | JUC06013387.hg.1 | BCLAF1 |
| TC06002143.hg.1 | -3.36 | JUC06013394.hg.1 | BCLAF1 |
| TC10001109.hg.1 | 2.01 | JUC10008003.hg.1 | ARHGAP21 |
| TC10001109.hg.1 | -2.05 | PSR10013927.hg.1 | ARHGAP21 |
| TC11000606.hg.1 | 2.01 | PSR11007475.hg.1 | SLC22A12 |
| TC11000606.hg.1 | -3.86 | JUC11003898.hg.1 | SLC22A12 |
| TC11002081.hg.1 | 2.01 | JUC11013180.hg.1 | PGM2L1 |
| TC11002081.hg.1 | -2.54 | PSR11024952.hg.1 | PGM2L1 |
| TC11002471.hg.1 | 2.01 | PSR11029592.hg.1 | IGSF9B |
| TC11002471.hg.1 | -2.53 | PSR11029607.hg.1 | IGSF9B |
| TC11002471.hg.1 | -3.18 | JUC11015781.hg.1 | IGSF9B |
| TC11002471.hg.1 | -3.95 | JUC11015795.hg.1 | IGSF9B |
| TC11002471.hg.1 | -4.33 | PSR11029606.hg.1 | IGSF9B |
| TC11003446.hg.1 | 2.01 | PSR11004635.hg.1 | EXT2 |
| TC11003446.hg.1 | -2.33 | JUC11019044.hg.1 | EXT2 |
| TC12001490.hg.1 | 2.01 | PSR12019618.hg.1 | CERS5 |
| TC12001490.hg.1 | -2.01 | PSR12019605.hg.1 | CERS5 |
| TC12001490.hg.1 | -2.2 | JUC12010882.hg.1 | CERS5 |
| TC12001490.hg.1 | -2.73 | JUC12010889.hg.1 | CERS5 |
| TC12001490.hg.1 | -3.01 | PSR12019604.hg.1 | CERS5 |
| TC17000921.hg.1 | 2.01 | JUC17006842.hg.1 | RPTOR |
| TC17000921.hg.1 | -2.19 | PSR17012101.hg.1 | RPTOR |
| TC19000432.hg.1 | 2.01 | PSR19005639.hg.1 | GPATCH1 |
| TC19000432.hg.1 | -4.71 | JUC19003338.hg.1 | GPATCH1 |
| TC19000445.hg.1 | 2.01 | JUC19003469.hg.1 | WTIP |
| TC19000445.hg.1 | -2.33 | PSR19005825.hg.1 | WTIP |
| TC02001128.hg.1 | 2 | PSR02017124.hg.1 | NABP1 |
| TC02001128.hg.1 | -2.02 | PSR02017137.hg.1 | NABP1 |
| TC02001128.hg.1 | -2.5 | PSR02017148.hg.1 | NABP1 |
| TC02001128.hg.1 | -2.73 | JUC02009188.hg.1 | NABP1 |
| TC20000805.hg.1 | 2 | JUC20005687.hg.1 | RBM39 |
| TC20000805.hg.1 | -2.02 | PSR20011038.hg.1 | RBM39 |
| TC20000805.hg.1 | -2.18 | PSR20011078.hg.1 | RBM39 |
| TC20000805.hg.1 | -2.21 | PSR20011083.hg.1 | RBM39 |
| TC16000634.hg.1 | 2 | JUC16004970.hg.1 | CENPN |
| TC16000634.hg.1 | -2.03 | PSR16008987.hg.1 | CENPN |
| TC07000166.hg.1 | 2 | PSR07002600.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -2.06 | PSR07002598.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -2.09 | JUC07001277.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -2.1 | PSR07002623.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -2.16 | PSR07002626.hg.1 | HOXA-AS2 |

| | | | |
|-----------------|--------|------------------|--------------|
| TC07000166.hg.1 | -2.6 | JUC07001279.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -2.71 | PSR07002595.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -2.9 | PSR07002617.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -3.28 | PSR07002602.hg.1 | HOXA-AS2 |
| TC07000166.hg.1 | -4.11 | PSR07002616.hg.1 | HOXA-AS2 |
| TC13000112.hg.1 | 2 | PSR13001221.hg.1 | PDS5B |
| TC13000112.hg.1 | -2.06 | PSR13001254.hg.1 | PDS5B |
| TC13000112.hg.1 | -2.34 | JUC13000762.hg.1 | PDS5B |
| TC17001867.hg.1 | 2 | JUC17014080.hg.1 | C17orf28 |
| TC17001867.hg.1 | -2.06 | PSR17025031.hg.1 | C17orf28 |
| TC17001867.hg.1 | -2.37 | JUC17014094.hg.1 | C17orf28 |
| TC17001867.hg.1 | -2.47 | JUC17014085.hg.1 | C17orf28 |
| TC17001867.hg.1 | -3.34 | JUC17014089.hg.1 | C17orf28 |
| TC17001867.hg.1 | -3.39 | JUC17014077.hg.1 | C17orf28 |
| TC07000831.hg.1 | 2 | JUC07006222.hg.1 | LRGUK |
| TC07000831.hg.1 | -2.07 | PSR07013083.hg.1 | LRGUK |
| TC07000831.hg.1 | -2.08 | JUC07006216.hg.1 | LRGUK |
| TC16000838.hg.1 | 2 | JUC16006862.hg.1 | PPL |
| TC16000838.hg.1 | -2.08 | PSR16012198.hg.1 | PPL |
| TC16000838.hg.1 | -2.52 | JUC16006865.hg.1 | PPL |
| TC11003435.hg.1 | 2 | JUC11018837.hg.1 | SERGEF |
| TC11003435.hg.1 | -2.09 | PSR11018405.hg.1 | SERGEF |
| TC10000350.hg.1 | 2 | JUC10002381.hg.1 | DKK1 |
| TC10000350.hg.1 | -2.15 | JUC10002377.hg.1 | DKK1 |
| TC10000350.hg.1 | -2.79 | PSR10004092.hg.1 | DKK1 |
| TC10000350.hg.1 | -2.97 | PSR10004099.hg.1 | DKK1 |
| TC10000350.hg.1 | -6.93 | PSR10004094.hg.1 | DKK1 |
| TC10000350.hg.1 | -7.31 | PSR10004091.hg.1 | DKK1 |
| TC10000350.hg.1 | -9.61 | JUC10002378.hg.1 | DKK1 |
| TC10000350.hg.1 | -13.22 | PSR10004100.hg.1 | DKK1 |
| TC07000829.hg.1 | 2 | JUC07006182.hg.1 | EXOC4 |
| TC07000829.hg.1 | -2.16 | JUC07006179.hg.1 | EXOC4 |
| TC07000829.hg.1 | -3.02 | PSR07013056.hg.1 | EXOC4 |
| TC10001161.hg.1 | 2 | PSR10014626.hg.1 | EPC1 |
| TC10001161.hg.1 | 2 | JUC10008455.hg.1 | EPC1 |
| TC10001161.hg.1 | -2.17 | JUC10008468.hg.1 | EPC1 |
| TC10001161.hg.1 | -2.19 | JUC10008459.hg.1 | EPC1 |
| TC10001161.hg.1 | -2.27 | PSR10014594.hg.1 | EPC1 |
| TC08001012.hg.1 | 2 | PSR08012713.hg.1 | MTMR7 |
| TC08001012.hg.1 | -2.36 | PSR08012683.hg.1 | MTMR7 |
| TC08001012.hg.1 | -3.38 | JUC08006595.hg.1 | MTMR7 |
| TC16000305.hg.1 | 2 | JUC16002354.hg.1 | EIF3C, EIF3C |
| TC16000305.hg.1 | -2.38 | PSR16004254.hg.1 | EIF3C, EIF3C |
| TC02000573.hg.1 | 2 | JUC02004456.hg.1 | FAHD2A |
| TC02000573.hg.1 | -3.83 | PSR02008794.hg.1 | FAHD2A |
| TC03000213.hg.1 | 2 | JUC03002256.hg.1 | |
| TC03000213.hg.1 | -6.97 | PSR03004251.hg.1 | |
| TC04000336.hg.1 | 2 | PSR04004796.hg.1 | POLR2B |
| TC04000336.hg.1 | -3.43 | JUC04002371.hg.1 | POLR2B |
| TC09000391.hg.1 | 2 | PSR09004181.hg.1 | NAA35 |
| TC09000391.hg.1 | -2.39 | JUC09002311.hg.1 | NAA35 |
| TC09000391.hg.1 | -2.77 | JUC09002291.hg.1 | NAA35 |
| TC10000893.hg.1 | 2 | PSR10010937.hg.1 | LOC399815 |
| TC10000893.hg.1 | -2.42 | JUC10006380.hg.1 | LOC399815 |
| TC10000893.hg.1 | -9.4 | JUC10006375.hg.1 | LOC399815 |
| TC12001452.hg.1 | 2 | PSR12018986.hg.1 | KANSL2 |
| TC12001452.hg.1 | -3.23 | JUC12010632.hg.1 | KANSL2 |
| TC19000190.hg.1 | 2 | PSR19002888.hg.1 | SMARCA4 |

| | | | |
|-----------------|-------|-------------------|-------------|
| TC19000190.hg.1 | -2.52 | JUC19001704.hg.1 | SMARCA4 |
| TC6_cox_hap2000 | 2 | PSR6_cox_hap2004 | TAPBP |
| TC6_cox_hap2000 | -3.48 | JUC6_cox_hap20016 | TAPBP |
| TC6_dbb_hap3000 | 2 | PSR6_dbb_hap3004 | TAPBP |
| TC6_dbb_hap3000 | -3.48 | JUC6_dbb_hap30015 | TAPBP |
| TC01002482.hg.1 | -2 | JUC01020642.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.01 | JUC01020670.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.09 | PSR01038451.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.09 | JUC01020638.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.14 | PSR01038453.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.18 | PSR01038452.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.29 | JUC01020640.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.31 | PSR01038456.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.5 | JUC01020664.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.61 | PSR01038415.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.68 | PSR01038421.hg.1 | PHC2, MIR36 |
| TC01002482.hg.1 | -2.81 | JUC01020663.hg.1 | PHC2, MIR36 |
| TC02002131.hg.1 | -2 | PSR02034662.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.01 | PSR02034664.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.16 | PSR02034650.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.17 | PSR02034668.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.19 | JUC02017885.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.51 | JUC02017894.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.62 | PSR02034667.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.63 | PSR02034660.hg.1 | TSGA10 |
| TC02002131.hg.1 | -2.94 | JUC02017884.hg.1 | TSGA10 |
| TC02002131.hg.1 | -3.68 | PSR02034692.hg.1 | TSGA10 |
| TC02002131.hg.1 | -4.55 | PSR02034691.hg.1 | TSGA10 |
| TC03000181.hg.1 | -2 | PSR03003440.hg.1 | ITGA9 |
| TC03000181.hg.1 | -2.01 | JUC03001838.hg.1 | ITGA9 |
| TC03000181.hg.1 | -2.1 | PSR03003422.hg.1 | ITGA9 |
| TC03000181.hg.1 | -2.11 | PSR03003445.hg.1 | ITGA9 |
| TC03000181.hg.1 | -2.27 | PSR03003423.hg.1 | ITGA9 |
| TC03000181.hg.1 | -2.52 | JUC03001827.hg.1 | ITGA9 |
| TC08002594.hg.1 | -2 | PSR08000958.hg.1 | FAM66D |
| TC08002594.hg.1 | -2.01 | PSR08000957.hg.1 | FAM66D |
| TC08002594.hg.1 | -2.39 | PSR08000961.hg.1 | FAM66D |
| TC08002594.hg.1 | -2.49 | PSR08000963.hg.1 | FAM66D |
| TC08002594.hg.1 | -2.62 | JUC08014931.hg.1 | FAM66D |
| TC08002594.hg.1 | -3.53 | PSR08000960.hg.1 | FAM66D |
| TC08002594.hg.1 | -4.05 | JUC08014929.hg.1 | FAM66D |
| TC07002041.hg.1 | -2 | PSR07031307.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.02 | PSR07031312.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.07 | PSR07031327.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.11 | JUC07015523.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.12 | PSR07031317.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.14 | JUC07015507.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.16 | PSR07031290.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.19 | PSR07031326.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.22 | PSR07031329.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.41 | JUC07015526.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.5 | PSR07031324.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.55 | PSR07031315.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -2.66 | PSR07031288.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -3.04 | JUC07015527.hg.1 | PRKAG2 |
| TC07002041.hg.1 | -3.15 | PSR07031330.hg.1 | PRKAG2 |
| TC0X000900.hg.1 | -2 | JUC0X005940.hg.1 | PHKA2 |
| TC0X000900.hg.1 | -2.02 | JUC0X005927.hg.1 | PHKA2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC0X000900.hg.1 | -2.11 | JUC0X005926.hg.1 | PHKA2 |
| TC0X000900.hg.1 | -2.16 | JUC0X005907.hg.1 | PHKA2 |
| TC0X000900.hg.1 | -2.27 | PSR0X012036.hg.1 | PHKA2 |
| TC0X000900.hg.1 | -2.47 | PSR0X012021.hg.1 | PHKA2 |
| TC11002262.hg.1 | -2 | JUC11014422.hg.1 | SLC35F2 |
| TC11002262.hg.1 | -2.02 | PSR11027116.hg.1 | SLC35F2 |
| TC11002262.hg.1 | -2.32 | PSR11027113.hg.1 | SLC35F2 |
| TC14002323.hg.1 | -2 | JUC14012095.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.02 | PSR14013414.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.03 | PSR14013405.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.08 | PSR14013406.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.11 | PSR14013413.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.17 | PSR14013411.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.17 | PSR14013412.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.19 | PSR14013408.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.27 | JUC14012103.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.31 | JUC14012101.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.4 | PSR14013396.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.54 | PSR14013392.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.81 | PSR14013393.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -2.84 | PSR14013407.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -3.5 | JUC14012099.hg.1 | FLJ31306 |
| TC14002323.hg.1 | -3.62 | PSR14013391.hg.1 | FLJ31306 |
| TC16002102.hg.1 | -2 | PSR16014356.hg.1 | BOLA2, BOLA |
| TC16002102.hg.1 | -2.02 | PSR16014354.hg.1 | BOLA2, BOLA |
| TC16002102.hg.1 | -2.08 | JUC16014233.hg.1 | BOLA2, BOLA |
| TC22000419.hg.1 | -2 | PSR22007956.hg.1 | PANX2 |
| TC22000419.hg.1 | -2.02 | JUC22003085.hg.1 | PANX2 |
| TC22000419.hg.1 | -2.47 | JUC22003091.hg.1 | PANX2 |
| TC22000419.hg.1 | -3.41 | PSR22007959.hg.1 | PANX2 |
| TC22000419.hg.1 | -9.5 | JUC22003088.hg.1 | PANX2 |
| TC01000648.hg.1 | -2 | JUC01005460.hg.1 | SCP2 |
| TC01000648.hg.1 | -2.03 | JUC01005464.hg.1 | SCP2 |
| TC01000648.hg.1 | -2.07 | PSR01010564.hg.1 | SCP2 |
| TC01000648.hg.1 | -2.21 | JUC01005454.hg.1 | SCP2 |
| TC01000648.hg.1 | -2.3 | PSR01010570.hg.1 | SCP2 |
| TC01000648.hg.1 | -2.78 | PSR01010575.hg.1 | SCP2 |
| TC01000648.hg.1 | -4.24 | JUC01005455.hg.1 | SCP2 |
| TC01001731.hg.1 | -2 | PSR01027003.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -2.03 | PSR01027037.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -2.04 | PSR01027017.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -2.17 | JUC01014485.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -2.42 | PSR01027002.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -2.59 | JUC01014463.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -3.01 | JUC01014471.hg.1 | PFKFB2 |
| TC01001731.hg.1 | -3.61 | JUC01014484.hg.1 | PFKFB2 |
| TC03001269.hg.1 | -2 | JUC03010777.hg.1 | OSBPL10 |
| TC03001269.hg.1 | -2.03 | PSR03021662.hg.1 | OSBPL10 |
| TC03001269.hg.1 | -2.05 | PSR03021654.hg.1 | OSBPL10 |
| TC03001269.hg.1 | -2.37 | JUC03010797.hg.1 | OSBPL10 |
| TC03001269.hg.1 | -2.75 | JUC03010785.hg.1 | OSBPL10 |
| TC03001269.hg.1 | -3.25 | JUC03010787.hg.1 | OSBPL10 |
| TC07000923.hg.1 | -2 | JUC07006865.hg.1 | EPHB6 |
| TC07000923.hg.1 | -2.04 | PSR07014257.hg.1 | EPHB6 |
| TC0X000951.hg.1 | -2 | JUC0X006368.hg.1 | |
| TC0X000951.hg.1 | -2.04 | PSR0X012721.hg.1 | |
| TC11000397.hg.1 | -2 | PSR11004977.hg.1 | MDK |
| TC11000397.hg.1 | -2.04 | PSR11004992.hg.1 | MDK |

| | | | |
|-----------------|-------|------------------|-------------|
| TC11000397.hg.1 | -2.39 | JUC11002679.hg.1 | MDK |
| TC04000046.hg.1 | -2 | JUC04000542.hg.1 | RGS12 |
| TC04000046.hg.1 | -2.05 | PSR04001218.hg.1 | RGS12 |
| TC04000046.hg.1 | -2.58 | JUC04000563.hg.1 | RGS12 |
| TC04000046.hg.1 | -3.12 | JUC04000531.hg.1 | RGS12 |
| TC04000046.hg.1 | -3.16 | JUC04000549.hg.1 | RGS12 |
| TC04000046.hg.1 | -3.78 | JUC04000539.hg.1 | RGS12 |
| TC12001301.hg.1 | -2 | PSR12017043.hg.1 | ST8SIA1 |
| TC12001301.hg.1 | -2.05 | PSR12017046.hg.1 | ST8SIA1 |
| TC12001301.hg.1 | -2.09 | PSR12017049.hg.1 | ST8SIA1 |
| TC12001301.hg.1 | -2.15 | JUC12009383.hg.1 | ST8SIA1 |
| TC12001301.hg.1 | -2.17 | PSR12017041.hg.1 | ST8SIA1 |
| TC05000816.hg.1 | -2 | PSR05011633.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.06 | PSR05011642.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.27 | PSR05011607.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.3 | PSR05011610.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.4 | PSR05011632.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.52 | JUC05006042.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.52 | JUC05006045.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.66 | JUC05006050.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -2.86 | PSR05011608.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -3.05 | JUC05006060.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -3.14 | PSR05011627.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -3.24 | PSR05011629.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -3.34 | PSR05011619.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -3.49 | PSR05011609.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -3.82 | JUC05006063.hg.1 | ABLIM3 |
| TC05000816.hg.1 | -5.01 | PSR05011652.hg.1 | ABLIM3 |
| TC22000649.hg.1 | -2 | PSR22011329.hg.1 | GATSL3, TBC |
| TC22000649.hg.1 | -2.07 | PSR22011294.hg.1 | GATSL3, TBC |
| TC22000649.hg.1 | -2.36 | JUC22004606.hg.1 | GATSL3, TBC |
| TC22000649.hg.1 | -2.39 | JUC22004631.hg.1 | GATSL3, TBC |
| TC22000649.hg.1 | -2.82 | JUC22004615.hg.1 | GATSL3, TBC |
| TC01003344.hg.1 | -2 | PSR01052256.hg.1 | GPATCH4 |
| TC01003344.hg.1 | -2.08 | PSR01052243.hg.1 | GPATCH4 |
| TC01003344.hg.1 | -2.09 | PSR01052257.hg.1 | GPATCH4 |
| TC01003344.hg.1 | -2.27 | PSR01052273.hg.1 | GPATCH4 |
| TC01003344.hg.1 | -2.82 | JUC01027368.hg.1 | GPATCH4 |
| TC11000198.hg.1 | -2 | JUC11001218.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.08 | PSR11002660.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.09 | PSR11002625.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.37 | PSR11002634.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.37 | JUC11001235.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.49 | JUC11001248.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.6 | JUC11001242.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.84 | JUC11001230.hg.1 | MICAL2 |
| TC11000198.hg.1 | -2.88 | PSR11002656.hg.1 | MICAL2 |
| TC11000198.hg.1 | -3.45 | JUC11001227.hg.1 | MICAL2 |
| TC11000198.hg.1 | -3.84 | JUC11001251.hg.1 | MICAL2 |
| TC13000744.hg.1 | -2 | PSR13008647.hg.1 | MYCBP2 |
| TC13000744.hg.1 | -2.09 | JUC13005017.hg.1 | MYCBP2 |
| TC13000744.hg.1 | -2.11 | PSR13008655.hg.1 | MYCBP2 |
| TC13000744.hg.1 | -2.85 | PSR13008572.hg.1 | MYCBP2 |
| TC13000744.hg.1 | -3.31 | JUC13005007.hg.1 | MYCBP2 |
| TC14002313.hg.1 | -2 | JUC14011946.hg.1 | APOPT1, KLC |
| TC14002313.hg.1 | -2.09 | PSR14008684.hg.1 | APOPT1, KLC |
| TC14002313.hg.1 | -2.12 | PSR14008686.hg.1 | APOPT1, KLC |
| TC14002313.hg.1 | -2.13 | JUC14011944.hg.1 | APOPT1, KLC |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01006405.hg.1 | -2 | JUC01046662.hg.1 | |
| TC01006405.hg.1 | -2.12 | PSR01016615.hg.1 | |
| TC01006405.hg.1 | -2.16 | PSR01016602.hg.1 | |
| TC01006405.hg.1 | -2.18 | JUC01046665.hg.1 | |
| TC01006405.hg.1 | -2.24 | PSR01016611.hg.1 | |
| TC01006405.hg.1 | -2.48 | PSR01016619.hg.1 | |
| TC01006405.hg.1 | -2.58 | PSR01016618.hg.1 | |
| TC01006405.hg.1 | -3.23 | PSR01016623.hg.1 | |
| TC01006405.hg.1 | -3.32 | PSR01016612.hg.1 | |
| TC01006405.hg.1 | -3.6 | PSR01016614.hg.1 | |
| TC01006405.hg.1 | -3.88 | PSR01016621.hg.1 | |
| TC01006405.hg.1 | -3.91 | PSR01016616.hg.1 | |
| TC01006405.hg.1 | -4.09 | PSR01016622.hg.1 | |
| TC11000313.hg.1 | -2 | JUC11002117.hg.1 | TCP11L1 |
| TC11000313.hg.1 | -2.13 | PSR11004006.hg.1 | TCP11L1 |
| TC02000002.hg.1 | -2 | JUC02000012.hg.1 | ACP1 |
| TC02000002.hg.1 | -2.14 | JUC02000006.hg.1 | ACP1 |
| TC02000002.hg.1 | -2.72 | PSR02000018.hg.1 | ACP1 |
| TC05003397.hg.1 | -2 | JUC05019132.hg.1 | LRRC70, IPO |
| TC05003397.hg.1 | -2.14 | JUC05019114.hg.1 | LRRC70, IPO |
| TC05003397.hg.1 | -2.33 | JUC05019137.hg.1 | LRRC70, IPO |
| TC05003397.hg.1 | -2.41 | PSR05003323.hg.1 | LRRC70, IPO |
| TC16000480.hg.1 | -2 | JUC16003711.hg.1 | HERPUD1 |
| TC16000480.hg.1 | -2.16 | PSR16006622.hg.1 | HERPUD1 |
| TC22000487.hg.1 | -2 | PSR22008730.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.16 | JUC22003517.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.24 | PSR22008700.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.26 | PSR22008693.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.36 | JUC22003499.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.39 | PSR22008689.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.5 | PSR22008705.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.63 | PSR22008688.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.81 | JUC22003480.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.86 | PSR22008696.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -2.98 | JUC22003519.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -3.4 | JUC22003524.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -3.45 | PSR22008726.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -4.48 | PSR22008729.hg.1 | CLTCL1 |
| TC22000487.hg.1 | -5.76 | JUC22003486.hg.1 | CLTCL1 |
| TC05000406.hg.1 | -2 | PSR05005852.hg.1 | ATG10 |
| TC05000406.hg.1 | -2.17 | PSR05005864.hg.1 | ATG10 |
| TC05000406.hg.1 | -2.58 | JUC05003197.hg.1 | ATG10 |
| TC05000840.hg.1 | -2 | JUC05006305.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -2.17 | PSR05012119.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -2.2 | JUC05006313.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -2.38 | PSR05012115.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -2.93 | PSR05012133.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -2.99 | PSR05012120.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.14 | JUC05006303.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.29 | PSR05012137.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.36 | PSR05012107.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.45 | PSR05012105.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.73 | JUC05006310.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.8 | PSR05012122.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -3.84 | JUC05006309.hg.1 | SLC36A1 |
| TC05000840.hg.1 | -4.49 | JUC05006322.hg.1 | SLC36A1 |
| TC07003347.hg.1 | -2 | PSR07016539.hg.1 | COX19 |
| TC07003347.hg.1 | -2.17 | PSR07016534.hg.1 | COX19 |

| | | | |
|-----------------|-------|------------------|------------|
| TC07003347.hg.1 | -2.54 | PSR07016538.hg.1 | COX19 |
| TC07003347.hg.1 | -2.61 | PSR07016530.hg.1 | COX19 |
| TC07003347.hg.1 | -2.66 | PSR07016537.hg.1 | COX19 |
| TC07003347.hg.1 | -3.81 | JUC07021254.hg.1 | COX19 |
| TC07003344.hg.1 | -2 | JUC07021232.hg.1 | NDUFB2 |
| TC07003344.hg.1 | -2.18 | PSR07013780.hg.1 | NDUFB2 |
| TC05000066.hg.1 | -2 | PSR05000745.hg.1 | LOC1005058 |
| TC05000066.hg.1 | -2.19 | PSR05000746.hg.1 | LOC1005058 |
| TC05000066.hg.1 | -2.66 | PSR05000744.hg.1 | LOC1005058 |
| TC05000066.hg.1 | -3.04 | JUC05000409.hg.1 | LOC1005058 |
| TC12000836.hg.1 | -2 | JUC12005890.hg.1 | ISCU |
| TC12000836.hg.1 | -2.25 | JUC12005889.hg.1 | ISCU |
| TC12000836.hg.1 | -2.33 | PSR12010704.hg.1 | ISCU |
| TC14002309.hg.1 | -2 | JUC14011887.hg.1 | SERPINA3 |
| TC14002309.hg.1 | -2.25 | PSR14007311.hg.1 | SERPINA3 |
| TC14002309.hg.1 | -2.73 | JUC14011884.hg.1 | SERPINA3 |
| TC10000377.hg.1 | -2 | PSR10004293.hg.1 | ARID5B |
| TC10000377.hg.1 | -2.26 | PSR10004298.hg.1 | ARID5B |
| TC10000377.hg.1 | -4.15 | JUC10002481.hg.1 | ARID5B |
| TC10000377.hg.1 | -5.75 | JUC10002486.hg.1 | ARID5B |
| TC07001663.hg.1 | -2 | JUC07012598.hg.1 | GATS |
| TC07001663.hg.1 | -2.27 | PSR07025588.hg.1 | GATS |
| TC08001071.hg.1 | -2 | JUC08006998.hg.1 | KCTD9 |
| TC08001071.hg.1 | -2.27 | PSR08013606.hg.1 | KCTD9 |
| TC08001071.hg.1 | -4.79 | JUC08007006.hg.1 | KCTD9 |
| TC22000702.hg.1 | -2 | PSR22012379.hg.1 | APOL2 |
| TC22000702.hg.1 | -2.27 | JUC22005142.hg.1 | APOL2 |
| TC22000702.hg.1 | -2.49 | PSR22012383.hg.1 | APOL2 |
| TC22000702.hg.1 | -2.5 | JUC22005136.hg.1 | APOL2 |
| TC22000702.hg.1 | -2.61 | PSR22012378.hg.1 | APOL2 |
| TC22000702.hg.1 | -2.89 | PSR22012387.hg.1 | APOL2 |
| TC22000702.hg.1 | -3.12 | JUC22005134.hg.1 | APOL2 |
| TC22000702.hg.1 | -3.69 | PSR22012375.hg.1 | APOL2 |
| TC01006364.hg.1 | -2 | JUC01044561.hg.1 | CLCC1 |
| TC01006364.hg.1 | -2.28 | JUC01044567.hg.1 | CLCC1 |
| TC01006364.hg.1 | -2.42 | PSR01045818.hg.1 | CLCC1 |
| TC01006364.hg.1 | -2.48 | JUC01044579.hg.1 | CLCC1 |
| TC17000065.hg.1 | -2 | JUC17000493.hg.1 | RABEP1 |
| TC17000065.hg.1 | -2.33 | PSR17000800.hg.1 | RABEP1 |
| TC06000961.hg.1 | -2 | PSR06011212.hg.1 | NCOA7 |
| TC06000961.hg.1 | -2.36 | PSR06011216.hg.1 | NCOA7 |
| TC06000961.hg.1 | -3 | PSR06011229.hg.1 | NCOA7 |
| TC06000961.hg.1 | -3.11 | JUC06005369.hg.1 | NCOA7 |
| TC06000961.hg.1 | -3.48 | JUC06005371.hg.1 | NCOA7 |
| TC07000718.hg.1 | -2 | JUC07005302.hg.1 | TES |
| TC07000718.hg.1 | -2.36 | JUC07005296.hg.1 | TES |
| TC07000718.hg.1 | -2.44 | PSR07011320.hg.1 | TES |
| TC07000718.hg.1 | -2.5 | PSR07011305.hg.1 | TES |
| TC02002492.hg.1 | -2 | PSR02039408.hg.1 | GALNT3 |
| TC02002492.hg.1 | -2.42 | PSR02039423.hg.1 | GALNT3 |
| TC02002492.hg.1 | -2.48 | PSR02039438.hg.1 | GALNT3 |
| TC02002492.hg.1 | -3.18 | PSR02039431.hg.1 | GALNT3 |
| TC02002492.hg.1 | -3.25 | PSR02039430.hg.1 | GALNT3 |
| TC02002492.hg.1 | -3.37 | PSR02039417.hg.1 | GALNT3 |
| TC02002492.hg.1 | -3.61 | PSR02039414.hg.1 | GALNT3 |
| TC02002492.hg.1 | -3.78 | PSR02039421.hg.1 | GALNT3 |
| TC02002492.hg.1 | -4.53 | PSR02039432.hg.1 | GALNT3 |
| TC02002492.hg.1 | -4.9 | PSR02039434.hg.1 | GALNT3 |

| | | | |
|-----------------|--------|------------------|----------|
| TC02002492.hg.1 | -4.93 | PSR02039437.hg.1 | GALNT3 |
| TC02002492.hg.1 | -6.26 | JUC02020683.hg.1 | GALNT3 |
| TC02002492.hg.1 | -6.67 | PSR02039424.hg.1 | GALNT3 |
| TC02002492.hg.1 | -6.72 | PSR02039418.hg.1 | GALNT3 |
| TC02002492.hg.1 | -7.35 | PSR02039436.hg.1 | GALNT3 |
| TC01003497.hg.1 | -2 | PSR01054349.hg.1 | SLC19A2 |
| TC01003497.hg.1 | -2.43 | PSR01054347.hg.1 | SLC19A2 |
| TC01003497.hg.1 | -3.35 | JUC01028336.hg.1 | SLC19A2 |
| TC01003497.hg.1 | -5.02 | JUC01028333.hg.1 | SLC19A2 |
| TC01003497.hg.1 | -6.74 | JUC01028332.hg.1 | SLC19A2 |
| TC14001547.hg.1 | -2 | PSR14017371.hg.1 | C14orf2 |
| TC14001547.hg.1 | -2.45 | JUC14008998.hg.1 | C14orf2 |
| TC14001547.hg.1 | -2.72 | PSR14017366.hg.1 | C14orf2 |
| TC14001547.hg.1 | -2.79 | PSR14017367.hg.1 | C14orf2 |
| TC19000389.hg.1 | -2 | PSR19005230.hg.1 | ZNF431 |
| TC19000389.hg.1 | -2.47 | PSR19005223.hg.1 | ZNF431 |
| TC19000389.hg.1 | -3.45 | JUC19003082.hg.1 | ZNF431 |
| TC12003261.hg.1 | -2 | JUC12020217.hg.1 | OGFOD2 |
| TC12003261.hg.1 | -2.59 | PSR12012923.hg.1 | OGFOD2 |
| TC08000333.hg.1 | -2 | JUC08002435.hg.1 | HGSNAT |
| TC08000333.hg.1 | -2.65 | PSR08004928.hg.1 | HGSNAT |
| TC15000710.hg.1 | -2 | PSR15006352.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -2.66 | JUC15003229.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -2.81 | PSR15006356.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -2.86 | JUC15003242.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -3.27 | JUC15003241.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -5.26 | PSR15006347.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -7.7 | JUC15003234.hg.1 | PSTPIP1 |
| TC15000710.hg.1 | -13.4 | JUC15003221.hg.1 | PSTPIP1 |
| TC14001223.hg.1 | -2 | JUC14007046.hg.1 | GPX2 |
| TC14001223.hg.1 | -2.88 | PSR14013933.hg.1 | GPX2 |
| TC16000990.hg.1 | -2 | JUC16008031.hg.1 | SULT1A2 |
| TC16000990.hg.1 | -6.11 | PSR16014267.hg.1 | SULT1A2 |
| TC16000990.hg.1 | -6.9 | JUC16008035.hg.1 | SULT1A2 |
| TC04000475.hg.1 | -2 | JUC04003512.hg.1 | IBSP |
| TC04000475.hg.1 | -13.53 | PSR04006878.hg.1 | IBSP |
| TC01000918.hg.1 | -2 | PSR01014408.hg.1 | AMY2A |
| TC01000918.hg.1 | -2.88 | JUC01007625.hg.1 | AMY2A |
| TC01003451.hg.1 | -2 | PSR01053790.hg.1 | |
| TC01003451.hg.1 | -2.11 | JUC01028037.hg.1 | |
| TC02001898.hg.1 | -2 | PSR02030423.hg.1 | TMEM17 |
| TC02001898.hg.1 | -2.23 | JUC02016007.hg.1 | TMEM17 |
| TC02002288.hg.1 | -2 | PSR02036809.hg.1 | POLR2D |
| TC02002288.hg.1 | -2 | JUC02019083.hg.1 | POLR2D |
| TC07001813.hg.1 | -2 | PSR07028080.hg.1 | CADPS2 |
| TC07001813.hg.1 | -2.4 | JUC07013832.hg.1 | CADPS2 |
| TC07001813.hg.1 | -2.65 | JUC07013830.hg.1 | CADPS2 |
| TC07001813.hg.1 | -3.02 | JUC07013853.hg.1 | CADPS2 |
| TC08001059.hg.1 | -2 | PSR08013506.hg.1 | |
| TC08001059.hg.1 | -4.41 | JUC08006953.hg.1 | |
| TC12001748.hg.1 | -2 | PSR12023128.hg.1 | |
| TC12001748.hg.1 | -5.58 | JUC12012777.hg.1 | |
| TC16001357.hg.1 | -2 | PSR16018837.hg.1 | FANCA |
| TC16001357.hg.1 | -2.23 | JUC16010747.hg.1 | FANCA |
| TC16001357.hg.1 | -2.36 | JUC16010732.hg.1 | FANCA |
| TC16001357.hg.1 | -4.06 | JUC16010731.hg.1 | FANCA |
| TC17000159.hg.1 | -2 | PSR17002246.hg.1 | ARHGAP44 |
| TC17000159.hg.1 | -2.47 | JUC17001359.hg.1 | ARHGAP44 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC18001001.hg.1 | -2 | PSR18002744.hg.1 | SERPINB8 |
| TC18001001.hg.1 | -2.31 | JUC18005291.hg.1 | SERPINB8 |
| TC18001001.hg.1 | -2.67 | JUC18005287.hg.1 | SERPINB8 |
| TC18001001.hg.1 | -3.68 | JUC18005294.hg.1 | SERPINB8 |
| TC6_dbb_hap3000 | -2 | PSR6_dbb_hap3000 | LST1 |
| TC6_dbb_hap3000 | -2.92 | JUC6_dbb_hap3000 | LST1 |
| TC6_mann_hap400 | -2 | PSR6_mann_hap400 | CCHCR1 |
| TC6_mann_hap400 | -3.73 | JUC6_mann_hap400 | CCHCR1 |
| TC6_mcf_hap5000 | -2 | PSR6_mcf_hap5000 | LST1 |
| TC6_mcf_hap5000 | -2.92 | JUC6_mcf_hap5000 | LST1 |
| TC6_mcf_hap5000 | -2 | PSR6_mcf_hap5002 | CCHCR1 |
| TC6_mcf_hap5000 | -3.73 | JUC6_mcf_hap5000 | CCHCR1 |
| TC6_qbl_hap6000 | -2 | PSR6_qbl_hap6000 | LOC554223 |
| TC6_qbl_hap6000 | -4.59 | JUC6_qbl_hap6000 | LOC554223 |
| TC01000288.hg.1 | -2.01 | JUC01002376.hg.1 | EPHB2 |
| TC01000288.hg.1 | -2.13 | PSR01004427.hg.1 | EPHB2 |
| TC01000288.hg.1 | -2.47 | PSR01004433.hg.1 | EPHB2 |
| TC01000288.hg.1 | -2.57 | PSR01004445.hg.1 | EPHB2 |
| TC01000493.hg.1 | -2.01 | JUC01004025.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.03 | JUC01003941.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.04 | JUC01003938.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.05 | JUC01003894.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.09 | PSR01007547.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.12 | JUC01003993.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.12 | JUC01004001.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.17 | JUC01004018.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.27 | JUC01003979.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.29 | PSR01007529.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.38 | JUC01003970.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.49 | PSR01007617.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.51 | JUC01004008.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.59 | JUC01003908.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.79 | JUC01003948.hg.1 | MACF1 |
| TC01000493.hg.1 | -2.8 | JUC01003913.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.04 | JUC01003959.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.11 | PSR01007538.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.27 | JUC01003962.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.34 | JUC01003968.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.39 | JUC01003976.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.58 | JUC01003952.hg.1 | MACF1 |
| TC01000493.hg.1 | -3.61 | JUC01003906.hg.1 | MACF1 |
| TC01000493.hg.1 | -4 | PSR01007539.hg.1 | MACF1 |
| TC01000493.hg.1 | -4.93 | JUC01003964.hg.1 | MACF1 |
| TC01000493.hg.1 | -6.05 | JUC01003991.hg.1 | MACF1 |
| TC01000547.hg.1 | -2.01 | JUC01004522.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.04 | JUC01004508.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.07 | JUC01004533.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.09 | PSR01008728.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.11 | JUC01004498.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.19 | JUC01004534.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.28 | JUC01004529.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.3 | JUC01004560.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -2.43 | PSR01008731.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -3.58 | JUC01004513.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -3.88 | JUC01004546.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -3.89 | JUC01004548.hg.1 | SZT2, HYI-AS |
| TC01000547.hg.1 | -3.98 | JUC01004555.hg.1 | SZT2, HYI-AS |
| TC01003309.hg.1 | -2.01 | PSR01051323.hg.1 | FAM189B |

| | | | |
|-----------------|-------|------------------|-----------|
| TC01003309.hg.1 | -2.09 | JUC01026971.hg.1 | FAM189B |
| TC01003309.hg.1 | -2.39 | PSR01051305.hg.1 | FAM189B |
| TC01003309.hg.1 | -2.39 | JUC01026965.hg.1 | FAM189B |
| TC01003309.hg.1 | -2.88 | JUC01026980.hg.1 | FAM189B |
| TC01003725.hg.1 | -2.01 | PSR01057196.hg.1 | ETNK2 |
| TC01003725.hg.1 | -2.01 | JUC01029839.hg.1 | ETNK2 |
| TC01003725.hg.1 | -2.16 | JUC01029834.hg.1 | ETNK2 |
| TC01003725.hg.1 | -2.2 | PSR01057189.hg.1 | ETNK2 |
| TC01003725.hg.1 | -2.57 | PSR01057186.hg.1 | ETNK2 |
| TC01003725.hg.1 | -2.62 | PSR01057192.hg.1 | ETNK2 |
| TC01006299.hg.1 | -2.01 | PSR01041136.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.05 | JUC01039495.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.11 | PSR01041139.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.15 | PSR01041126.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.19 | PSR01041131.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.29 | JUC01039496.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.32 | PSR01041137.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.39 | PSR01041127.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.43 | JUC01039499.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.46 | JUC01039494.hg.1 | TAL1 |
| TC01006299.hg.1 | -2.66 | JUC01039498.hg.1 | TAL1 |
| TC01006299.hg.1 | -3.52 | JUC01039492.hg.1 | TAL1 |
| TC02000364.hg.1 | -2.01 | PSR02005533.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.02 | PSR02005523.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.06 | PSR02005542.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.33 | PSR02005505.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.78 | JUC02002869.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.8 | JUC02002883.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.86 | JUC02002864.hg.1 | UGP2 |
| TC02000364.hg.1 | -2.95 | PSR02005534.hg.1 | UGP2 |
| TC02000364.hg.1 | -3.15 | JUC02002861.hg.1 | UGP2 |
| TC02000364.hg.1 | -3.15 | JUC02002885.hg.1 | UGP2 |
| TC02000364.hg.1 | -3.84 | JUC02002881.hg.1 | UGP2 |
| TC02001382.hg.1 | -2.01 | JUC02011513.hg.1 | LOC151484 |
| TC02001382.hg.1 | -2.05 | PSR02021689.hg.1 | LOC151484 |
| TC02001382.hg.1 | -3.32 | JUC02011509.hg.1 | LOC151484 |
| TC02001405.hg.1 | -2.01 | PSR02022225.hg.1 | EFHD1 |
| TC02001405.hg.1 | -2.05 | PSR02022216.hg.1 | EFHD1 |
| TC02001405.hg.1 | -2.21 | PSR02022217.hg.1 | EFHD1 |
| TC02001405.hg.1 | -2.61 | PSR02022214.hg.1 | EFHD1 |
| TC02001405.hg.1 | -4.18 | JUC02011785.hg.1 | EFHD1 |
| TC03001252.hg.1 | -2.01 | PSR03021453.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.06 | JUC03010677.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.07 | JUC03010675.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.08 | PSR03021431.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.08 | JUC03010656.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.08 | JUC03010664.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.1 | PSR03021454.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.24 | PSR03021488.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.3 | PSR03021436.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.65 | JUC03010666.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.68 | PSR03021461.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.7 | PSR03021463.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.85 | JUC03010652.hg.1 | NEK10 |
| TC03001252.hg.1 | -2.89 | PSR03021477.hg.1 | NEK10 |
| TC03001252.hg.1 | -6.12 | JUC03010663.hg.1 | NEK10 |
| TC03001936.hg.1 | -2.01 | JUC03017149.hg.1 | LOC730091 |
| TC03001936.hg.1 | -2.36 | PSR03034639.hg.1 | LOC730091 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC03001936.hg.1 | -2.38 | JUC03017147.hg.1 | LOC730091 |
| TC03001936.hg.1 | -2.54 | PSR03034640.hg.1 | LOC730091 |
| TC04000142.hg.1 | -2.01 | PSR04002205.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.05 | PSR04002206.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.06 | JUC04001031.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.11 | PSR04002223.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.15 | PSR04002190.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.17 | PSR04002176.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.19 | PSR04002188.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.25 | JUC04001013.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.3 | JUC04001001.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.35 | JUC04001010.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.49 | JUC04001005.hg.1 | CC2D2A |
| TC04000142.hg.1 | -2.5 | PSR04002185.hg.1 | CC2D2A |
| TC04000142.hg.1 | -3.07 | PSR04002178.hg.1 | CC2D2A |
| TC04000142.hg.1 | -3.12 | PSR04002179.hg.1 | CC2D2A |
| TC04000142.hg.1 | -3.12 | JUC04001020.hg.1 | CC2D2A |
| TC04000142.hg.1 | -6.24 | JUC04001014.hg.1 | CC2D2A |
| TC04000214.hg.1 | -2.01 | PSR04003168.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -2.05 | PSR04003209.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -2.07 | JUC04001545.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -2.08 | JUC04001522.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -2.18 | PSR04003164.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -2.19 | PSR04003215.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -2.41 | JUC04001520.hg.1 | TBC1D1 |
| TC04000214.hg.1 | -3.02 | PSR04003190.hg.1 | TBC1D1 |
| TC04000260.hg.1 | -2.01 | PSR04003844.hg.1 | SHISA3 |
| TC04000260.hg.1 | -4.1 | JUC04001900.hg.1 | SHISA3 |
| TC04000260.hg.1 | -4.24 | PSR04003843.hg.1 | SHISA3 |
| TC04001725.hg.1 | -2.01 | PSR04023887.hg.1 | NEK1 |
| TC04001725.hg.1 | -2.2 | JUC04012663.hg.1 | NEK1 |
| TC04001725.hg.1 | -2.46 | JUC04012673.hg.1 | NEK1 |
| TC05001608.hg.1 | -2.01 | PSR05021961.hg.1 | GLRX |
| TC05001608.hg.1 | -2.01 | JUC05011331.hg.1 | GLRX |
| TC05001608.hg.1 | -2.11 | PSR05021967.hg.1 | GLRX |
| TC05001608.hg.1 | -2.28 | PSR05021960.hg.1 | GLRX |
| TC05001608.hg.1 | -3.02 | PSR05021962.hg.1 | GLRX |
| TC05001742.hg.1 | -2.01 | JUC05012114.hg.1 | ALDH7A1 |
| TC05001742.hg.1 | -2.08 | PSR05023358.hg.1 | ALDH7A1 |
| TC05001742.hg.1 | -2.19 | PSR05023359.hg.1 | ALDH7A1 |
| TC05001742.hg.1 | -2.5 | JUC05012106.hg.1 | ALDH7A1 |
| TC06001943.hg.1 | -2.01 | PSR06023828.hg.1 | LYRM2 |
| TC06001943.hg.1 | -2.37 | JUC06011590.hg.1 | LYRM2 |
| TC06001943.hg.1 | -2.57 | JUC06011593.hg.1 | LYRM2 |
| TC07000689.hg.1 | -2.01 | JUC07005066.hg.1 | HBP1 |
| TC07000689.hg.1 | -2.38 | PSR07010781.hg.1 | HBP1 |
| TC07000689.hg.1 | -2.52 | JUC07005071.hg.1 | HBP1 |
| TC07001338.hg.1 | -2.01 | PSR07020841.hg.1 | CAMK2B |
| TC07001338.hg.1 | -2.87 | JUC07010165.hg.1 | CAMK2B |
| TC07001559.hg.1 | -2.01 | PSR07023441.hg.1 | SEMA3C |
| TC07001559.hg.1 | -2.59 | JUC07011622.hg.1 | SEMA3C |
| TC08001293.hg.1 | -2.01 | JUC08008559.hg.1 | ARFGEF1 |
| TC08001293.hg.1 | -2.14 | JUC08008576.hg.1 | ARFGEF1 |
| TC08001293.hg.1 | -2.25 | PSR08016704.hg.1 | ARFGEF1 |
| TC08001293.hg.1 | -2.72 | JUC08008568.hg.1 | ARFGEF1 |
| TC08001413.hg.1 | -2.01 | PSR08018394.hg.1 | RUNX1T1 |
| TC08001413.hg.1 | -2.08 | PSR08018379.hg.1 | RUNX1T1 |
| TC08001413.hg.1 | -2.09 | PSR08018369.hg.1 | RUNX1T1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC08001413.hg.1 | -2.24 | JUC08009323.hg.1 | RUNX1T1 |
| TC08001413.hg.1 | -2.24 | JUC08009339.hg.1 | RUNX1T1 |
| TC08001413.hg.1 | -3.09 | JUC08009347.hg.1 | RUNX1T1 |
| TC08001711.hg.1 | -2.01 | JUC08011574.hg.1 | LY6H |
| TC08001711.hg.1 | -2.11 | PSR08022510.hg.1 | LY6H |
| TC0X000546.hg.1 | -2.01 | PSR0X007368.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.04 | PSR0X007361.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.06 | JUC0X003650.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.09 | JUC0X003635.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.12 | PSR0X007362.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.12 | JUC0X003661.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.15 | JUC0X003629.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.15 | JUC0X003655.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.2 | PSR0X007342.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.28 | PSR0X007370.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.39 | PSR0X007351.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.48 | PSR0X007312.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.58 | JUC0X003660.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.68 | JUC0X003639.hg.1 | ALG13 |
| TC0X000546.hg.1 | -2.91 | JUC0X003663.hg.1 | ALG13 |
| TC0X000546.hg.1 | -3 | JUC0X003653.hg.1 | ALG13 |
| TC0X000546.hg.1 | -3.22 | JUC0X003628.hg.1 | ALG13 |
| TC0X001141.hg.1 | -2.01 | JUC0X007809.hg.1 | HDAC8 |
| TC0X001141.hg.1 | -3.8 | PSR0X015514.hg.1 | HDAC8 |
| TC0X001306.hg.1 | -2.01 | JUC0X008937.hg.1 | KIAA1210 |
| TC0X001306.hg.1 | -2.31 | PSR0X017549.hg.1 | KIAA1210 |
| TC0X001306.hg.1 | -2.93 | JUC0X008935.hg.1 | KIAA1210 |
| TC10000576.hg.1 | -2.01 | JUC10003619.hg.1 | PLAC9 |
| TC10000576.hg.1 | -2.07 | PSR10006268.hg.1 | PLAC9 |
| TC10001439.hg.1 | -2.01 | PSR10018270.hg.1 | KCNMA1 |
| TC10001439.hg.1 | -2.03 | PSR10018223.hg.1 | KCNMA1 |
| TC10001439.hg.1 | -2.11 | PSR10018254.hg.1 | KCNMA1 |
| TC10001439.hg.1 | -2.17 | JUC10010607.hg.1 | KCNMA1 |
| TC10001439.hg.1 | -2.37 | JUC10010609.hg.1 | KCNMA1 |
| TC10001439.hg.1 | -2.42 | PSR10018253.hg.1 | KCNMA1 |
| TC10001439.hg.1 | -3.85 | JUC10010613.hg.1 | KCNMA1 |
| TC11000017.hg.1 | -2.01 | JUC11000134.hg.1 | PTDSS2 |
| TC11000017.hg.1 | -2.26 | PSR11000234.hg.1 | PTDSS2 |
| TC11000017.hg.1 | -2.62 | JUC11000136.hg.1 | PTDSS2 |
| TC11000375.hg.1 | -2.01 | JUC11002517.hg.1 | TSPAN18 |
| TC11000375.hg.1 | -2.07 | PSR11004684.hg.1 | TSPAN18 |
| TC11000375.hg.1 | -2.45 | JUC11002520.hg.1 | TSPAN18 |
| TC11000375.hg.1 | -2.78 | PSR11004701.hg.1 | TSPAN18 |
| TC11000375.hg.1 | -3.43 | JUC11002510.hg.1 | TSPAN18 |
| TC11002045.hg.1 | -2.01 | PSR11024409.hg.1 | |
| TC11002045.hg.1 | -2.2 | JUC11012884.hg.1 | |
| TC11002045.hg.1 | -2.45 | JUC11012881.hg.1 | |
| TC11002045.hg.1 | -2.73 | PSR11024408.hg.1 | |
| TC11002117.hg.1 | -2.01 | PSR11025289.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -2.09 | JUC11013364.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -2.12 | JUC11013378.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -2.18 | PSR11025271.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -2.34 | JUC11013373.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -2.67 | JUC11013381.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -2.97 | JUC11013377.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -3.48 | JUC11013365.hg.1 | GUCY2EP |
| TC11002117.hg.1 | -4.81 | PSR11025268.hg.1 | GUCY2EP |
| TC12000933.hg.1 | -2.01 | PSR12012105.hg.1 | CCDC60 |

| | | | |
|-----------------|-------|------------------|------------|
| TC12000933.hg.1 | -2.01 | PSR12012109.hg.1 | CCDC60 |
| TC12000933.hg.1 | -2.1 | PSR12012110.hg.1 | CCDC60 |
| TC12000933.hg.1 | -2.25 | JUC12006667.hg.1 | CCDC60 |
| TC14000951.hg.1 | -2.01 | JUC14005347.hg.1 | SLC7A8 |
| TC14000951.hg.1 | -2.09 | JUC14005357.hg.1 | SLC7A8 |
| TC14000951.hg.1 | -2.17 | JUC14005348.hg.1 | SLC7A8 |
| TC14000951.hg.1 | -2.2 | PSR14010513.hg.1 | SLC7A8 |
| TC14000951.hg.1 | -2.24 | JUC14005349.hg.1 | SLC7A8 |
| TC14000951.hg.1 | -2.31 | PSR14010536.hg.1 | SLC7A8 |
| TC14000951.hg.1 | -3.61 | PSR14010532.hg.1 | SLC7A8 |
| TC15002757.hg.1 | -2.01 | JUC15013171.hg.1 | GOLGA8B, L |
| TC15002757.hg.1 | -2.14 | PSR15010702.hg.1 | GOLGA8B, L |
| TC15002757.hg.1 | -2.37 | PSR15010720.hg.1 | GOLGA8B, L |
| TC16000723.hg.1 | -2.01 | JUC16005844.hg.1 | LUC7L |
| TC16000723.hg.1 | -2.06 | PSR16010469.hg.1 | LUC7L |
| TC16000723.hg.1 | -2.32 | PSR16010448.hg.1 | LUC7L |
| TC16000723.hg.1 | -2.38 | JUC16005850.hg.1 | LUC7L |
| TC16000723.hg.1 | -3.6 | PSR16010447.hg.1 | LUC7L |
| TC17000462.hg.1 | -2.01 | JUC17003120.hg.1 | MLLT6 |
| TC17000462.hg.1 | -2.15 | PSR17005444.hg.1 | MLLT6 |
| TC17000462.hg.1 | -2.19 | JUC17003105.hg.1 | MLLT6 |
| TC17000462.hg.1 | -2.63 | JUC17003109.hg.1 | MLLT6 |
| TC17000462.hg.1 | -3.08 | JUC17003110.hg.1 | MLLT6 |
| TC20000485.hg.1 | -2.01 | JUC20003601.hg.1 | |
| TC20000485.hg.1 | -2.17 | JUC20003602.hg.1 | |
| TC20000485.hg.1 | -2.46 | PSR20006816.hg.1 | |
| TC20000869.hg.1 | -2.01 | PSR20011878.hg.1 | LOC79015 |
| TC20000869.hg.1 | -2.05 | JUC20006164.hg.1 | LOC79015 |
| TC20000869.hg.1 | -2.06 | PSR20011874.hg.1 | LOC79015 |
| TC22000566.hg.1 | -2.01 | PSR22010162.hg.1 | ZNF70 |
| TC22000566.hg.1 | -2.19 | JUC22004081.hg.1 | ZNF70 |
| TC22000647.hg.1 | -2.01 | PSR22011283.hg.1 | LIF |
| TC22000647.hg.1 | -2.42 | JUC22004597.hg.1 | LIF |
| TC01000359.hg.1 | -2.02 | PSR01005575.hg.1 | TMEM222 |
| TC01000359.hg.1 | -2.16 | JUC01002919.hg.1 | TMEM222 |
| TC01000359.hg.1 | -2.28 | PSR01005577.hg.1 | TMEM222 |
| TC01000520.hg.1 | -2.02 | PSR01008148.hg.1 | CTPS1 |
| TC01000520.hg.1 | -2.25 | PSR01008153.hg.1 | CTPS1 |
| TC01000520.hg.1 | -2.62 | PSR01008173.hg.1 | CTPS1 |
| TC01000520.hg.1 | -2.64 | JUC01004260.hg.1 | CTPS1 |
| TC01000520.hg.1 | -2.65 | JUC01004271.hg.1 | CTPS1 |
| TC01000520.hg.1 | -2.67 | JUC01004268.hg.1 | CTPS1 |
| TC01002175.hg.1 | -2.02 | PSR01033504.hg.1 | ENO1 |
| TC01002175.hg.1 | -2.49 | JUC01017967.hg.1 | ENO1 |
| TC01002175.hg.1 | -2.56 | PSR01033508.hg.1 | ENO1 |
| TC01002889.hg.1 | -2.02 | PSR01045113.hg.1 | |
| TC01002889.hg.1 | -2.15 | PSR01045107.hg.1 | |
| TC01002889.hg.1 | -2.22 | PSR01045105.hg.1 | |
| TC01002889.hg.1 | -2.26 | PSR01045109.hg.1 | |
| TC01002889.hg.1 | -2.31 | PSR01045112.hg.1 | |
| TC01002889.hg.1 | -2.34 | JUC01024237.hg.1 | |
| TC01002889.hg.1 | -3.86 | JUC01024239.hg.1 | |
| TC01002889.hg.1 | -3.87 | JUC01024247.hg.1 | |
| TC01002889.hg.1 | -4.08 | PSR01045111.hg.1 | |
| TC01002889.hg.1 | -4.69 | PSR01045103.hg.1 | |
| TC01002889.hg.1 | -5.09 | PSR01045106.hg.1 | |
| TC01002889.hg.1 | -5.54 | JUC01024238.hg.1 | |
| TC01002889.hg.1 | -5.9 | PSR01045098.hg.1 | |

| | | | |
|-----------------|--------|------------------|-------------|
| TC01002889.hg.1 | -6.44 | PSR01045116.hg.1 | |
| TC01002889.hg.1 | -6.52 | PSR01045114.hg.1 | |
| TC01002889.hg.1 | -6.72 | JUC01024248.hg.1 | |
| TC01002889.hg.1 | -7.39 | PSR01045102.hg.1 | |
| TC01002889.hg.1 | -7.52 | JUC01024241.hg.1 | |
| TC01002889.hg.1 | -7.61 | PSR01045099.hg.1 | |
| TC01002889.hg.1 | -9.02 | JUC01024246.hg.1 | |
| TC01002889.hg.1 | -13.47 | JUC01024242.hg.1 | |
| TC01004038.hg.1 | -2.02 | JUC01031931.hg.1 | CEP170 |
| TC01004038.hg.1 | -2.78 | PSR01061017.hg.1 | CEP170 |
| TC01006347.hg.1 | -2.02 | PSR01034930.hg.1 | ALDH4A1, MI |
| TC01006347.hg.1 | -2.14 | JUC01044309.hg.1 | ALDH4A1, MI |
| TC01006347.hg.1 | -2.17 | JUC01044311.hg.1 | ALDH4A1, MI |
| TC01006347.hg.1 | -2.2 | PSR01034937.hg.1 | ALDH4A1, MI |
| TC01006347.hg.1 | -2.43 | PSR01034948.hg.1 | ALDH4A1, MI |
| TC01006347.hg.1 | -2.47 | PSR01034933.hg.1 | ALDH4A1, MI |
| TC01006347.hg.1 | -4.26 | JUC01044320.hg.1 | ALDH4A1, MI |
| TC02000448.hg.1 | -2.02 | PSR02006899.hg.1 | ACTG2 |
| TC02000448.hg.1 | -2.3 | PSR02006897.hg.1 | ACTG2 |
| TC02000448.hg.1 | -2.73 | JUC02003548.hg.1 | ACTG2 |
| TC02000448.hg.1 | -3.42 | PSR02006882.hg.1 | ACTG2 |
| TC02000448.hg.1 | -4.29 | JUC02003552.hg.1 | ACTG2 |
| TC02000448.hg.1 | -5.14 | JUC02003559.hg.1 | ACTG2 |
| TC02000448.hg.1 | -5.27 | JUC02003556.hg.1 | ACTG2 |
| TC02000448.hg.1 | -5.35 | PSR02006889.hg.1 | ACTG2 |
| TC02000448.hg.1 | -6.85 | PSR02006892.hg.1 | ACTG2 |
| TC02000448.hg.1 | -7.26 | PSR02006893.hg.1 | ACTG2 |
| TC02000448.hg.1 | -7.87 | PSR02006891.hg.1 | ACTG2 |
| TC02000448.hg.1 | -8.07 | PSR02006890.hg.1 | ACTG2 |
| TC02000448.hg.1 | -11.5 | JUC02003550.hg.1 | ACTG2 |
| TC02000448.hg.1 | -12.5 | PSR02006887.hg.1 | ACTG2 |
| TC02000448.hg.1 | -16.56 | JUC02003558.hg.1 | ACTG2 |
| TC02000448.hg.1 | -16.8 | JUC02003551.hg.1 | ACTG2 |
| TC02000448.hg.1 | -17.11 | JUC02003549.hg.1 | ACTG2 |
| TC02000448.hg.1 | -18.37 | JUC02003560.hg.1 | ACTG2 |
| TC02002120.hg.1 | -2.02 | JUC02017718.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.05 | PSR02034413.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.2 | JUC02017738.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.22 | JUC02017702.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.23 | JUC02017736.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.53 | JUC02017707.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.54 | PSR02034412.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.74 | JUC02017720.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.77 | PSR02034419.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.77 | PSR02034445.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.94 | PSR02034415.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -2.95 | JUC02017704.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -3.13 | JUC02017764.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -3.13 | JUC02017766.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -3.26 | JUC02017725.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -3.27 | PSR02034427.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -3.67 | PSR02034420.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -3.8 | PSR02034416.hg.1 | ANKRD36B |
| TC02002120.hg.1 | -4.18 | JUC02017714.hg.1 | ANKRD36B |
| TC03000854.hg.1 | -2.02 | PSR03015126.hg.1 | LEKR1 |
| TC03000854.hg.1 | -2.16 | PSR03015128.hg.1 | LEKR1 |
| TC03000854.hg.1 | -2.26 | PSR03015130.hg.1 | LEKR1 |
| TC03000854.hg.1 | -2.28 | PSR03015129.hg.1 | LEKR1 |

| | | | |
|-----------------|-------|------------------|--------|
| TC03000854.hg.1 | -2.32 | JUC03007683.hg.1 | LEKR1 |
| TC03000854.hg.1 | -3.15 | PSR03015131.hg.1 | LEKR1 |
| TC03000854.hg.1 | -4.38 | PSR03015132.hg.1 | LEKR1 |
| TC03000854.hg.1 | -5.41 | PSR03015133.hg.1 | LEKR1 |
| TC03000917.hg.1 | -2.02 | PSR03016004.hg.1 | SKIL |
| TC03000917.hg.1 | -3.14 | PSR03015988.hg.1 | SKIL |
| TC03000917.hg.1 | -3.4 | PSR03015983.hg.1 | SKIL |
| TC03000917.hg.1 | -3.52 | JUC03008121.hg.1 | SKIL |
| TC03000917.hg.1 | -3.58 | PSR03015987.hg.1 | SKIL |
| TC03000917.hg.1 | -4.14 | JUC03008124.hg.1 | SKIL |
| TC03000917.hg.1 | -4.57 | JUC03008125.hg.1 | SKIL |
| TC03003369.hg.1 | -2.02 | JUC03023940.hg.1 | LMLN |
| TC03003369.hg.1 | -2.04 | PSR03019248.hg.1 | LMLN |
| TC03003369.hg.1 | -2.14 | PSR03019255.hg.1 | LMLN |
| TC04000161.hg.1 | -2.02 | PSR04002553.hg.1 | PACRGL |
| TC04000161.hg.1 | -2.09 | JUC04001201.hg.1 | PACRGL |
| TC04000161.hg.1 | -3.27 | PSR04002555.hg.1 | PACRGL |
| TC04000253.hg.1 | -2.02 | PSR04003633.hg.1 | UCHL1 |
| TC04000253.hg.1 | -2.62 | JUC04001791.hg.1 | UCHL1 |
| TC04000253.hg.1 | -2.65 | PSR04003652.hg.1 | UCHL1 |
| TC04000253.hg.1 | -2.79 | PSR04003635.hg.1 | UCHL1 |
| TC04000253.hg.1 | -3.32 | JUC04001794.hg.1 | UCHL1 |
| TC04000253.hg.1 | -3.98 | PSR04003651.hg.1 | UCHL1 |
| TC04000253.hg.1 | -7.96 | JUC04001782.hg.1 | UCHL1 |
| TC04000903.hg.1 | -2.02 | JUC04006649.hg.1 | SNX25 |
| TC04000903.hg.1 | -2.11 | PSR04012345.hg.1 | SNX25 |
| TC04000903.hg.1 | -3.26 | JUC04006638.hg.1 | SNX25 |
| TC04001405.hg.1 | -2.02 | JUC04010274.hg.1 | ADH5 |
| TC04001405.hg.1 | -2.13 | PSR04019584.hg.1 | ADH5 |
| TC04002921.hg.1 | -2.02 | JUC04016925.hg.1 | SDAD1 |
| TC04002921.hg.1 | -2.1 | PSR04017842.hg.1 | SDAD1 |
| TC05000795.hg.1 | -2.02 | PSR05011238.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.04 | JUC05005828.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.05 | JUC05005833.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.07 | PSR05011239.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.07 | JUC05005838.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.09 | JUC05005834.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.56 | PSR05011240.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.64 | JUC05005837.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -2.98 | JUC05005824.hg.1 | SH3RF2 |
| TC05000795.hg.1 | -3.93 | JUC05005830.hg.1 | SH3RF2 |
| TC05001628.hg.1 | -2.02 | PSR05022218.hg.1 | CHD1 |
| TC05001628.hg.1 | -2.93 | JUC05011471.hg.1 | CHD1 |
| TC08000571.hg.1 | -2.02 | PSR08007838.hg.1 | PDP1 |
| TC08000571.hg.1 | -6.44 | JUC08003921.hg.1 | PDP1 |
| TC08001076.hg.1 | -2.02 | PSR08013708.hg.1 | ADRA1A |
| TC08001076.hg.1 | -2.15 | PSR08013705.hg.1 | ADRA1A |
| TC08001076.hg.1 | -2.32 | JUC08007052.hg.1 | ADRA1A |
| TC08001076.hg.1 | -2.89 | JUC08007045.hg.1 | ADRA1A |
| TC08001111.hg.1 | -2.02 | PSR08014357.hg.1 | PPP2CB |
| TC08001111.hg.1 | -2.24 | JUC08007355.hg.1 | PPP2CB |
| TC08001405.hg.1 | -2.02 | PSR08018222.hg.1 | TMEM64 |
| TC08001405.hg.1 | -2.13 | PSR08018223.hg.1 | TMEM64 |
| TC08001405.hg.1 | -3.14 | PSR08018230.hg.1 | TMEM64 |
| TC08001405.hg.1 | -3.3 | PSR08018226.hg.1 | TMEM64 |
| TC08001405.hg.1 | -3.51 | PSR08018228.hg.1 | TMEM64 |
| TC08001405.hg.1 | -3.71 | PSR08018224.hg.1 | TMEM64 |
| TC08001405.hg.1 | -4.09 | PSR08018229.hg.1 | TMEM64 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC08001405.hg.1 | -4.36 | PSR08018225.hg.1 | TMEM64 |
| TC08001405.hg.1 | -6.65 | JUC08009286.hg.1 | TMEM64 |
| TC09000013.hg.1 | -2.02 | PSR09000203.hg.1 | SMARCA2 |
| TC09000013.hg.1 | -2.07 | PSR09000251.hg.1 | SMARCA2 |
| TC09000013.hg.1 | -3.25 | JUC09000155.hg.1 | SMARCA2 |
| TC09000873.hg.1 | -2.02 | PSR09011608.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.06 | JUC09006263.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.55 | PSR09011587.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.58 | PSR09011583.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.66 | PSR09011598.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.71 | PSR09011600.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.86 | PSR09011602.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.96 | PSR09011591.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -2.97 | PSR09011592.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -3.35 | JUC09006257.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -4.09 | JUC09006256.hg.1 | FLJ35024 |
| TC09000873.hg.1 | -5.66 | JUC09006244.hg.1 | FLJ35024 |
| TC09001497.hg.1 | -2.02 | PSR09018609.hg.1 | FAM225B |
| TC09001497.hg.1 | -2.42 | JUC09010106.hg.1 | FAM225B |
| TC09001743.hg.1 | -2.02 | PSR09022431.hg.1 | KIAA1984-AS |
| TC09001743.hg.1 | -2.02 | JUC09012017.hg.1 | KIAA1984-AS |
| TC10000229.hg.1 | -2.02 | PSR10002653.hg.1 | LOC1005055 |
| TC10000229.hg.1 | -2.32 | JUC10001458.hg.1 | LOC1005055 |
| TC10000452.hg.1 | -2.02 | JUC10003142.hg.1 | MCU |
| TC10000452.hg.1 | -2.09 | JUC10003136.hg.1 | MCU |
| TC10000452.hg.1 | -2.85 | PSR10005328.hg.1 | MCU |
| TC10000581.hg.1 | -2.02 | PSR10006303.hg.1 | FAM213A |
| TC10000581.hg.1 | -2.03 | JUC10003641.hg.1 | FAM213A |
| TC10000581.hg.1 | -4.22 | JUC10003635.hg.1 | FAM213A |
| TC10000918.hg.1 | -2.02 | PSR10011298.hg.1 | DOCK1 |
| TC10000918.hg.1 | -2.08 | JUC10006564.hg.1 | DOCK1 |
| TC10000918.hg.1 | -2.99 | JUC10006587.hg.1 | DOCK1 |
| TC10001454.hg.1 | -2.02 | PSR10018462.hg.1 | SFTPA2, SFT |
| TC10001454.hg.1 | -2.11 | JUC10010761.hg.1 | SFTPA2, SFT |
| TC11000864.hg.1 | -2.02 | JUC11005733.hg.1 | TMEM126B |
| TC11000864.hg.1 | -2.18 | PSR11010942.hg.1 | TMEM126B |
| TC11000864.hg.1 | -2.27 | PSR11010943.hg.1 | TMEM126B |
| TC11003494.hg.1 | -2.02 | PSR11027403.hg.1 | FDXACB1 |
| TC11003494.hg.1 | -2.08 | JUC11019699.hg.1 | FDXACB1 |
| TC11003494.hg.1 | -2.23 | PSR11027407.hg.1 | FDXACB1 |
| TC12000399.hg.1 | -2.02 | PSR12005008.hg.1 | METTL7A |
| TC12000399.hg.1 | -2.2 | PSR12005019.hg.1 | METTL7A |
| TC12000399.hg.1 | -2.73 | JUC12002772.hg.1 | METTL7A |
| TC12000399.hg.1 | -3.38 | JUC12002770.hg.1 | METTL7A |
| TC12000399.hg.1 | -3.89 | PSR12005023.hg.1 | METTL7A |
| TC12000399.hg.1 | -5.11 | PSR12005006.hg.1 | METTL7A |
| TC12003233.hg.1 | -2.02 | JUC12019804.hg.1 | ZNF705A, ZN |
| TC12003233.hg.1 | -2.53 | PSR12001640.hg.1 | ZNF705A, ZN |
| TC12003233.hg.1 | -3.04 | JUC12019801.hg.1 | ZNF705A, ZN |
| TC12003233.hg.1 | -3.87 | PSR12001643.hg.1 | ZNF705A, ZN |
| TC14000916.hg.1 | -2.02 | JUC14005057.hg.1 | SUPT16H |
| TC14000916.hg.1 | -2.16 | JUC14005044.hg.1 | SUPT16H |
| TC14000916.hg.1 | -2.2 | JUC14005047.hg.1 | SUPT16H |
| TC14000916.hg.1 | -2.24 | PSR14009983.hg.1 | SUPT16H |
| TC14000916.hg.1 | -2.27 | JUC14005048.hg.1 | SUPT16H |
| TC14000916.hg.1 | -2.88 | JUC14005037.hg.1 | SUPT16H |
| TC14000916.hg.1 | -4.39 | JUC14005052.hg.1 | SUPT16H |
| TC14000916.hg.1 | -5.8 | JUC14005056.hg.1 | SUPT16H |

| | | | |
|-----------------|-------|------------------|------------|
| TC14001224.hg.1 | -2.02 | PSR14013941.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.02 | PSR14013956.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.15 | PSR14013951.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.18 | JUC14007049.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.23 | PSR14013947.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.37 | JUC14007057.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.4 | PSR14013958.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.48 | PSR14013955.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.8 | PSR14013959.hg.1 | RAB15 |
| TC14001224.hg.1 | -2.83 | PSR14013950.hg.1 | RAB15 |
| TC14001224.hg.1 | -3.01 | PSR14013948.hg.1 | RAB15 |
| TC14001224.hg.1 | -3.21 | JUC14007050.hg.1 | RAB15 |
| TC15000445.hg.1 | -2.02 | JUC15002085.hg.1 | FAM63B |
| TC15000445.hg.1 | -2.05 | JUC15002080.hg.1 | FAM63B |
| TC15000445.hg.1 | -2.06 | PSR15004222.hg.1 | FAM63B |
| TC15000445.hg.1 | -2.12 | JUC15002078.hg.1 | FAM63B |
| TC15000445.hg.1 | -2.13 | JUC15002088.hg.1 | FAM63B |
| TC17000180.hg.1 | -2.02 | PSR17002398.hg.1 | ADORA2B, L |
| TC17000180.hg.1 | -4.39 | JUC17001407.hg.1 | ADORA2B, L |
| TC17001724.hg.1 | -2.02 | JUC17012828.hg.1 | SRSF1 |
| TC17001724.hg.1 | -3.43 | PSR17023084.hg.1 | SRSF1 |
| TC17001789.hg.1 | -2.02 | PSR17023869.hg.1 | GH2 |
| TC17001789.hg.1 | -2.06 | JUC17013372.hg.1 | GH2 |
| TC17001974.hg.1 | -2.02 | PSR17027001.hg.1 | CCDC57 |
| TC17001974.hg.1 | -2.18 | JUC17015194.hg.1 | CCDC57 |
| TC17001974.hg.1 | -2.67 | JUC17015205.hg.1 | CCDC57 |
| TC17002847.hg.1 | -2.02 | JUC17018260.hg.1 | TRPV1 |
| TC17002847.hg.1 | -2.15 | PSR17013450.hg.1 | TRPV1 |
| TC18000999.hg.1 | -2.02 | PSR18002118.hg.1 | ELAC1 |
| TC18000999.hg.1 | -2.39 | JUC18005280.hg.1 | ELAC1 |
| TC18000999.hg.1 | -2.44 | PSR18002121.hg.1 | ELAC1 |
| TC19000406.hg.1 | -2.02 | PSR19005381.hg.1 | ZNF254 |
| TC19000406.hg.1 | -2.31 | PSR19005388.hg.1 | ZNF254 |
| TC19000406.hg.1 | -2.64 | JUC19003181.hg.1 | ZNF254 |
| TC19000406.hg.1 | -2.95 | JUC19003176.hg.1 | ZNF254 |
| TC19001088.hg.1 | -2.02 | JUC19008450.hg.1 | RFX2 |
| TC19001088.hg.1 | -2.28 | PSR19014917.hg.1 | RFX2 |
| TC20000316.hg.1 | -2.02 | JUC20002498.hg.1 | SRSF6 |
| TC20000316.hg.1 | -3.25 | PSR20004418.hg.1 | SRSF6 |
| TC21000412.hg.1 | -2.02 | PSR21004706.hg.1 | GART |
| TC21000412.hg.1 | -2.28 | JUC21002488.hg.1 | GART |
| TC21000412.hg.1 | -2.42 | PSR21004684.hg.1 | GART |
| TC21000412.hg.1 | -2.6 | PSR21004672.hg.1 | GART |
| TC21000412.hg.1 | -2.64 | PSR21004665.hg.1 | GART |
| TC6_cox_hap2000 | -2.02 | PSR6_cox_hap2002 | CCHCR1 |
| TC6_cox_hap2000 | -3.77 | JUC6_cox_hap2000 | CCHCR1 |
| TC6_dbb_hap3000 | -2.02 | PSR6_dbb_hap3002 | CCHCR1 |
| TC6_dbb_hap3000 | -3.77 | JUC6_dbb_hap3000 | CCHCR1 |
| TC6_qbl_hap6000 | -2.02 | PSR6_qbl_hap6000 | HLA-J |
| TC6_qbl_hap6000 | -2.37 | PSR6_qbl_hap6000 | HLA-J |
| TC6_qbl_hap6000 | -2.65 | PSR6_qbl_hap6000 | HLA-J |
| TC6_qbl_hap6000 | -2.81 | JUC6_qbl_hap6000 | HLA-J |
| TC6_qbl_hap6000 | -2.87 | JUC6_qbl_hap6000 | HLA-J |
| TC6_qbl_hap6000 | -3.94 | PSR6_qbl_hap6000 | HLA-J |
| TC01000710.hg.1 | -2.03 | PSR01011348.hg.1 | ATG4C |
| TC01000710.hg.1 | -2.71 | JUC01005867.hg.1 | ATG4C |
| TC01002590.hg.1 | -2.03 | JUC01021624.hg.1 | SLC6A9 |
| TC01002590.hg.1 | -2.04 | PSR01040309.hg.1 | SLC6A9 |

| | | | |
|-----------------|-------|------------------|----------|
| TC01002590.hg.1 | -2.15 | JUC01021627.hg.1 | SLC6A9 |
| TC01002590.hg.1 | -2.19 | PSR01040292.hg.1 | SLC6A9 |
| TC01002590.hg.1 | -2.47 | JUC01021620.hg.1 | SLC6A9 |
| TC01002590.hg.1 | -2.66 | JUC01021619.hg.1 | SLC6A9 |
| TC01002590.hg.1 | -2.68 | JUC01021623.hg.1 | SLC6A9 |
| TC01002590.hg.1 | -3.42 | JUC01021625.hg.1 | SLC6A9 |
| TC02000051.hg.1 | -2.03 | PSR02000614.hg.1 | |
| TC02000051.hg.1 | -2.06 | JUC02000341.hg.1 | |
| TC02000276.hg.1 | -2.03 | PSR02004168.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.08 | PSR02004152.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.33 | PSR02004154.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.34 | PSR02004175.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.54 | PSR02004174.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.55 | PSR02004165.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.58 | PSR02004159.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.65 | PSR02004158.hg.1 | CAMKMT |
| TC02000276.hg.1 | -2.87 | PSR02004164.hg.1 | CAMKMT |
| TC02000276.hg.1 | -3.1 | PSR02004143.hg.1 | CAMKMT |
| TC02000276.hg.1 | -3.44 | JUC02002173.hg.1 | CAMKMT |
| TC02001159.hg.1 | -2.03 | PSR02017488.hg.1 | SPATS2L |
| TC02001159.hg.1 | -2.4 | JUC02009327.hg.1 | SPATS2L |
| TC02001159.hg.1 | -3.7 | JUC02009333.hg.1 | SPATS2L |
| TC02001614.hg.1 | -2.03 | PSR02025874.hg.1 | WDR35 |
| TC02001614.hg.1 | -2.14 | JUC02013458.hg.1 | WDR35 |
| TC02002044.hg.1 | -2.03 | JUC02016873.hg.1 | TMEM150A |
| TC02002044.hg.1 | -2.18 | JUC02016881.hg.1 | TMEM150A |
| TC02002044.hg.1 | -2.24 | PSR02032686.hg.1 | TMEM150A |
| TC02002544.hg.1 | -2.03 | PSR02040441.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.04 | PSR02040436.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.06 | JUC02021324.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.08 | PSR02040439.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.08 | JUC02021327.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.16 | PSR02040430.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.22 | PSR02040431.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.31 | PSR02040448.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.32 | PSR02040434.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.35 | PSR02040429.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.47 | PSR02040417.hg.1 | CHN1 |
| TC02002544.hg.1 | -2.63 | PSR02040415.hg.1 | CHN1 |
| TC02002678.hg.1 | -2.03 | PSR02043206.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.07 | JUC02022649.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.14 | JUC02022613.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.16 | JUC02022647.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.22 | PSR02043191.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.44 | JUC02022632.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.61 | JUC02022612.hg.1 | ALS2 |
| TC02002678.hg.1 | -2.66 | JUC02022617.hg.1 | ALS2 |
| TC02002678.hg.1 | -3.52 | JUC02022652.hg.1 | ALS2 |
| TC02002882.hg.1 | -2.03 | JUC02024252.hg.1 | USP40 |
| TC02002882.hg.1 | -2.06 | PSR02046394.hg.1 | USP40 |
| TC02002882.hg.1 | -2.26 | PSR02046398.hg.1 | USP40 |
| TC02004937.hg.1 | -2.03 | PSR02005276.hg.1 | C2orf74 |
| TC02004937.hg.1 | -2.06 | JUC02031519.hg.1 | C2orf74 |
| TC02004937.hg.1 | -2.11 | PSR02005275.hg.1 | C2orf74 |
| TC02004937.hg.1 | -2.32 | JUC02031520.hg.1 | C2orf74 |
| TC03000608.hg.1 | -2.03 | PSR03010958.hg.1 | POGLUT1 |
| TC03000608.hg.1 | -2.35 | JUC03005462.hg.1 | POGLUT1 |
| TC03000608.hg.1 | -4.46 | JUC03005459.hg.1 | POGLUT1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC03001809.hg.1 | -2.03 | PSR03032805.hg.1 | |
| TC03001809.hg.1 | -2.09 | JUC03016255.hg.1 | |
| TC03001809.hg.1 | -2.15 | PSR03032802.hg.1 | |
| TC03003375.hg.1 | -2.03 | JUC03024070.hg.1 | CCDC13 |
| TC03003375.hg.1 | -2.2 | PSR03022736.hg.1 | CCDC13 |
| TC04000254.hg.1 | -2.03 | JUC04001806.hg.1 | LIMCH1 |
| TC04000254.hg.1 | -2.06 | JUC04001849.hg.1 | LIMCH1 |
| TC04000254.hg.1 | -2.09 | JUC04001819.hg.1 | LIMCH1 |
| TC04000254.hg.1 | -2.25 | PSR04003733.hg.1 | LIMCH1 |
| TC04000254.hg.1 | -2.34 | PSR04003720.hg.1 | LIMCH1 |
| TC04000254.hg.1 | -2.91 | JUC04001803.hg.1 | LIMCH1 |
| TC04001797.hg.1 | -2.03 | JUC04012988.hg.1 | RWDD4 |
| TC04001797.hg.1 | -2.52 | PSR04024519.hg.1 | RWDD4 |
| TC05000209.hg.1 | -2.03 | JUC05001424.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.05 | PSR05002508.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.07 | PSR05002491.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.09 | PSR05002490.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.1 | JUC05001442.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.11 | JUC05001407.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.17 | JUC05001421.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.19 | PSR05002515.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.27 | PSR05002492.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.51 | PSR05002514.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.61 | PSR05002513.hg.1 | PARP8 |
| TC05000209.hg.1 | -2.65 | JUC05001414.hg.1 | PARP8 |
| TC05000209.hg.1 | -3.37 | JUC05001429.hg.1 | PARP8 |
| TC05000664.hg.1 | -2.03 | PSR05009160.hg.1 | PHF15 |
| TC05000664.hg.1 | -2.06 | PSR05009178.hg.1 | PHF15 |
| TC05000664.hg.1 | -2.08 | PSR05009154.hg.1 | PHF15 |
| TC05000664.hg.1 | -2.23 | PSR05009175.hg.1 | PHF15 |
| TC05000664.hg.1 | -2.35 | PSR05009145.hg.1 | PHF15 |
| TC05000664.hg.1 | -3.17 | JUC05004937.hg.1 | PHF15 |
| TC05000664.hg.1 | -4.18 | JUC05004943.hg.1 | PHF15 |
| TC05001235.hg.1 | -2.03 | JUC05008921.hg.1 | ZFR |
| TC05001235.hg.1 | -2.55 | PSR05017391.hg.1 | ZFR |
| TC05001854.hg.1 | -2.03 | JUC05013029.hg.1 | HBEGF |
| TC05001854.hg.1 | -2.06 | PSR05025442.hg.1 | HBEGF |
| TC06001754.hg.1 | -2.03 | JUC06010028.hg.1 | GTPBP2 |
| TC06001754.hg.1 | -2.7 | PSR06021070.hg.1 | GTPBP2 |
| TC07000165.hg.1 | -2.03 | JUC07001266.hg.1 | HOTAIRM1 |
| TC07000165.hg.1 | -2.04 | PSR07002590.hg.1 | HOTAIRM1 |
| TC07000165.hg.1 | -2.45 | PSR07002586.hg.1 | HOTAIRM1 |
| TC07000165.hg.1 | -2.6 | PSR07002585.hg.1 | HOTAIRM1 |
| TC07001374.hg.1 | -2.03 | PSR07021616.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.12 | JUC07010620.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.13 | PSR07021620.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.26 | JUC07010627.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.27 | PSR07021608.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.3 | JUC07010619.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.32 | PSR07021581.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.34 | PSR07021558.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.38 | PSR07021617.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.41 | PSR07021611.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.43 | PSR07021615.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.45 | JUC07010610.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.48 | PSR07021582.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.48 | JUC07010593.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.53 | JUC07010602.hg.1 | GRB10 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC07001374.hg.1 | -2.56 | JUC07010599.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.68 | PSR07021606.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.95 | PSR07021594.hg.1 | GRB10 |
| TC07001374.hg.1 | -2.98 | PSR07021607.hg.1 | GRB10 |
| TC07001374.hg.1 | -3.25 | PSR07021595.hg.1 | GRB10 |
| TC07001374.hg.1 | -3.28 | PSR07021610.hg.1 | GRB10 |
| TC07001374.hg.1 | -3.47 | PSR07021622.hg.1 | GRB10 |
| TC07001374.hg.1 | -3.52 | JUC07010600.hg.1 | GRB10 |
| TC07001374.hg.1 | -3.63 | PSR07021589.hg.1 | GRB10 |
| TC07001374.hg.1 | -4.09 | PSR07021601.hg.1 | GRB10 |
| TC07001374.hg.1 | -4.57 | JUC07010583.hg.1 | GRB10 |
| TC07003338.hg.1 | -2.03 | PSR07009272.hg.1 | STAG3 |
| TC07003338.hg.1 | -2.19 | JUC07021133.hg.1 | STAG3 |
| TC07003338.hg.1 | -2.29 | PSR07009289.hg.1 | STAG3 |
| TC07003338.hg.1 | -2.33 | PSR07009273.hg.1 | STAG3 |
| TC07003338.hg.1 | -2.84 | JUC07021099.hg.1 | STAG3 |
| TC07003338.hg.1 | -2.98 | JUC07021103.hg.1 | STAG3 |
| TC07003338.hg.1 | -3.01 | JUC07021119.hg.1 | STAG3 |
| TC08001000.hg.1 | -2.03 | PSR08012548.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.15 | PSR08012544.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.21 | PSR08012506.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.28 | JUC08006494.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.34 | JUC08006478.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.36 | JUC08006480.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.46 | PSR08012522.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.54 | PSR08012503.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.57 | PSR08012546.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.68 | JUC08006477.hg.1 | DLC1 |
| TC08001000.hg.1 | -2.72 | PSR08012550.hg.1 | DLC1 |
| TC08001000.hg.1 | -3.04 | PSR08012549.hg.1 | DLC1 |
| TC08001000.hg.1 | -3.29 | JUC08006479.hg.1 | DLC1 |
| TC08001000.hg.1 | -4.32 | JUC08006500.hg.1 | DLC1 |
| TC08001000.hg.1 | -4.4 | PSR08012553.hg.1 | DLC1 |
| TC09000171.hg.1 | -2.03 | JUC09000974.hg.1 | DNAI1 |
| TC09000171.hg.1 | -2.05 | PSR09001763.hg.1 | DNAI1 |
| TC09000171.hg.1 | -2.13 | JUC09000961.hg.1 | DNAI1 |
| TC09000171.hg.1 | -2.18 | JUC09000966.hg.1 | DNAI1 |
| TC09000171.hg.1 | -2.83 | JUC09000971.hg.1 | DNAI1 |
| TC09000171.hg.1 | -3.32 | JUC09000977.hg.1 | DNAI1 |
| TC0X000207.hg.1 | -2.03 | PSR0X002313.hg.1 | MAOA |
| TC0X000207.hg.1 | -2.25 | PSR0X002295.hg.1 | MAOA |
| TC0X000207.hg.1 | -2.28 | JUC0X001250.hg.1 | MAOA |
| TC0X000207.hg.1 | -2.36 | JUC0X001263.hg.1 | MAOA |
| TC0X000207.hg.1 | -2.46 | PSR0X002297.hg.1 | MAOA |
| TC0X000207.hg.1 | -2.46 | PSR0X002314.hg.1 | MAOA |
| TC0X000207.hg.1 | -2.6 | PSR0X002301.hg.1 | MAOA |
| TC0X000801.hg.1 | -2.03 | PSR0X010970.hg.1 | ZBED1, DHR |
| TC0X000801.hg.1 | -2.03 | JUC0X005378.hg.1 | ZBED1, DHR |
| TC0X000801.hg.1 | -2.17 | JUC0X005364.hg.1 | ZBED1, DHR |
| TC0X000801.hg.1 | -2.2 | JUC0X005374.hg.1 | ZBED1, DHR |
| TC0X000801.hg.1 | -2.55 | PSR0X010981.hg.1 | ZBED1, DHR |
| TC0X000801.hg.1 | -2.83 | JUC0X005365.hg.1 | ZBED1, DHR |
| TC0X000801.hg.1 | -3.22 | JUC0X005377.hg.1 | ZBED1, DHR |
| TC10000681.hg.1 | -2.03 | PSR10007907.hg.1 | ZNF518A, LC |
| TC10000681.hg.1 | -4.08 | JUC10004481.hg.1 | ZNF518A, LC |
| TC10000947.hg.1 | -2.03 | PSR10011685.hg.1 | LOC399829 |
| TC10000947.hg.1 | -2.81 | JUC10006817.hg.1 | LOC399829 |
| TC11000199.hg.1 | -2.03 | JUC11001260.hg.1 | MICALCL |

| | | | |
|-----------------|-------|------------------|------------|
| TC11000199.hg.1 | -2.18 | PSR11002677.hg.1 | MICALCL |
| TC11000877.hg.1 | -2.03 | PSR11011096.hg.1 | LOC1005063 |
| TC11000877.hg.1 | -2.13 | PSR11011094.hg.1 | LOC1005063 |
| TC11000877.hg.1 | -3.04 | JUC11005820.hg.1 | LOC1005063 |
| TC12000240.hg.1 | -2.03 | PSR12002966.hg.1 | |
| TC12000240.hg.1 | -2.74 | JUC12001439.hg.1 | |
| TC12000828.hg.1 | -2.03 | JUC12005829.hg.1 | BTBD11 |
| TC12000828.hg.1 | -2.08 | PSR12010597.hg.1 | BTBD11 |
| TC12000828.hg.1 | -2.15 | PSR12010602.hg.1 | BTBD11 |
| TC12000828.hg.1 | -2.17 | PSR12010601.hg.1 | BTBD11 |
| TC12000828.hg.1 | -2.18 | PSR12010603.hg.1 | BTBD11 |
| TC12000828.hg.1 | -2.66 | PSR12010604.hg.1 | BTBD11 |
| TC12000828.hg.1 | -3.05 | PSR12010618.hg.1 | BTBD11 |
| TC12000828.hg.1 | -3.97 | JUC12005830.hg.1 | BTBD11 |
| TC12001499.hg.1 | -2.03 | PSR12019712.hg.1 | SLC11A2 |
| TC12001499.hg.1 | -2.18 | PSR12019681.hg.1 | SLC11A2 |
| TC12001499.hg.1 | -2.52 | JUC12010950.hg.1 | SLC11A2 |
| TC12001535.hg.1 | -2.03 | PSR12020167.hg.1 | KRT3 |
| TC12001535.hg.1 | -3.09 | JUC12011206.hg.1 | KRT3 |
| TC14000197.hg.1 | -2.03 | JUC14000970.hg.1 | AP4S1 |
| TC14000197.hg.1 | -2.34 | JUC14000977.hg.1 | AP4S1 |
| TC14000197.hg.1 | -2.38 | PSR14002190.hg.1 | AP4S1 |
| TC15000704.hg.1 | -2.03 | JUC15003174.hg.1 | UBE2Q2 |
| TC15000704.hg.1 | -2.41 | PSR15006258.hg.1 | UBE2Q2 |
| TC15000704.hg.1 | -2.91 | PSR15006255.hg.1 | UBE2Q2 |
| TC15001104.hg.1 | -2.03 | PSR15010053.hg.1 | LOC1005070 |
| TC15001104.hg.1 | -2.96 | JUC15005317.hg.1 | LOC1005070 |
| TC15001104.hg.1 | -3.13 | JUC15005321.hg.1 | LOC1005070 |
| TC15001350.hg.1 | -2.03 | JUC15006971.hg.1 | GABPB1 |
| TC15001350.hg.1 | -2.04 | JUC15006978.hg.1 | GABPB1 |
| TC15001350.hg.1 | -2.13 | PSR15013015.hg.1 | GABPB1 |
| TC15001350.hg.1 | -2.52 | JUC15006973.hg.1 | GABPB1 |
| TC15001350.hg.1 | -2.73 | JUC15006966.hg.1 | GABPB1 |
| TC15002755.hg.1 | -2.03 | JUC15013131.hg.1 | CHRNA7, CH |
| TC15002755.hg.1 | -2.49 | PSR15001132.hg.1 | CHRNA7, CH |
| TC16001364.hg.1 | -2.03 | JUC16010783.hg.1 | PRDM7 |
| TC16001364.hg.1 | -2.07 | PSR16018887.hg.1 | PRDM7 |
| TC16001364.hg.1 | -2.31 | PSR16018885.hg.1 | PRDM7 |
| TC16001364.hg.1 | -2.87 | JUC16010792.hg.1 | PRDM7 |
| TC17000361.hg.1 | -2.03 | PSR17004513.hg.1 | LOC400590 |
| TC17000361.hg.1 | -2.21 | JUC17002552.hg.1 | LOC400590 |
| TC17000361.hg.1 | -2.9 | PSR17004511.hg.1 | LOC400590 |
| TC17001194.hg.1 | -2.03 | PSR17016274.hg.1 | TOM1L2 |
| TC17001194.hg.1 | -2.19 | JUC17009305.hg.1 | TOM1L2 |
| TC18000106.hg.1 | -2.03 | PSR18001272.hg.1 | CABYR |
| TC18000106.hg.1 | -2.09 | PSR18001278.hg.1 | CABYR |
| TC18000106.hg.1 | -2.15 | JUC18000884.hg.1 | CABYR |
| TC18000106.hg.1 | -2.21 | PSR18001284.hg.1 | CABYR |
| TC18000106.hg.1 | -2.29 | PSR18001276.hg.1 | CABYR |
| TC18000106.hg.1 | -2.33 | JUC18000887.hg.1 | CABYR |
| TC18000106.hg.1 | -2.64 | PSR18001280.hg.1 | CABYR |
| TC18000106.hg.1 | -2.95 | PSR18001277.hg.1 | CABYR |
| TC19000364.hg.1 | -2.03 | PSR19004828.hg.1 | CRTC1 |
| TC19000364.hg.1 | -2.06 | JUC19002837.hg.1 | CRTC1 |
| TC20000980.hg.1 | -2.03 | PSR20013414.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -2.14 | JUC20006973.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -2.15 | PSR20013411.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -2.43 | PSR20013407.hg.1 | PMEPA1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC20000980.hg.1 | -2.89 | JUC20006976.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -2.92 | PSR20013412.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -2.98 | PSR20013419.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -3.29 | JUC20006972.hg.1 | PMEPA1 |
| TC20000980.hg.1 | -3.37 | PSR20013408.hg.1 | PMEPA1 |
| TC22000615.hg.1 | -2.03 | PSR22010753.hg.1 | |
| TC22000615.hg.1 | -3.2 | PSR22010752.hg.1 | |
| TC22000615.hg.1 | -4.17 | JUC22004363.hg.1 | |
| TC22001475.hg.1 | -2.03 | JUC22009426.hg.1 | SERHL |
| TC22001475.hg.1 | -2.04 | JUC22009429.hg.1 | SERHL |
| TC22001475.hg.1 | -2.59 | PSR22006877.hg.1 | SERHL |
| TC22001475.hg.1 | -3.34 | JUC22009424.hg.1 | SERHL |
| TC01000119.hg.1 | -2.04 | PSR01001858.hg.1 | |
| TC01000119.hg.1 | -2.49 | JUC01000982.hg.1 | |
| TC01001723.hg.1 | -2.04 | PSR01026879.hg.1 | IKBKE |
| TC01001723.hg.1 | -2.15 | JUC01014395.hg.1 | IKBKE |
| TC01001723.hg.1 | -3.77 | JUC01014397.hg.1 | IKBKE |
| TC01002540.hg.1 | -2.04 | JUC01021188.hg.1 | PPIEL |
| TC01002540.hg.1 | -2.16 | JUC01021194.hg.1 | PPIEL |
| TC01002540.hg.1 | -2.21 | JUC01021189.hg.1 | PPIEL |
| TC01002540.hg.1 | -2.29 | PSR01039502.hg.1 | PPIEL |
| TC01002540.hg.1 | -3.53 | PSR01039504.hg.1 | PPIEL |
| TC02001496.hg.1 | -2.04 | JUC02012713.hg.1 | FAM150B |
| TC02001496.hg.1 | -2.13 | PSR02024544.hg.1 | FAM150B |
| TC02001496.hg.1 | -2.49 | JUC02012712.hg.1 | FAM150B |
| TC02002730.hg.1 | -2.04 | PSR02043828.hg.1 | KANSL1L |
| TC02002730.hg.1 | -2.62 | PSR02043822.hg.1 | KANSL1L |
| TC02002730.hg.1 | -2.64 | JUC02022940.hg.1 | KANSL1L |
| TC03000756.hg.1 | -2.04 | PSR03013760.hg.1 | SLC25A36 |
| TC03000756.hg.1 | -2.12 | JUC03006934.hg.1 | SLC25A36 |
| TC03000756.hg.1 | -2.23 | PSR03013743.hg.1 | SLC25A36 |
| TC03000978.hg.1 | -2.04 | PSR03016898.hg.1 | B3GNT5, LOC |
| TC03000978.hg.1 | -2.11 | PSR03016876.hg.1 | B3GNT5, LOC |
| TC03000978.hg.1 | -2.21 | JUC03008597.hg.1 | B3GNT5, LOC |
| TC03000978.hg.1 | -2.35 | JUC03008587.hg.1 | B3GNT5, LOC |
| TC03000978.hg.1 | -2.38 | PSR03016896.hg.1 | B3GNT5, LOC |
| TC03001002.hg.1 | -2.04 | PSR03017627.hg.1 | FAM131A |
| TC03001002.hg.1 | -2.4 | JUC03008939.hg.1 | FAM131A |
| TC03001919.hg.1 | -2.04 | PSR03034488.hg.1 | DHX36 |
| TC03001919.hg.1 | -2.08 | PSR03034493.hg.1 | DHX36 |
| TC03001919.hg.1 | -2.29 | JUC03017047.hg.1 | DHX36 |
| TC03001919.hg.1 | -2.57 | JUC03017044.hg.1 | DHX36 |
| TC03001919.hg.1 | -3.24 | JUC03017038.hg.1 | DHX36 |
| TC03002096.hg.1 | -2.04 | PSR03037216.hg.1 | BCL6 |
| TC03002096.hg.1 | -2.23 | JUC03018403.hg.1 | BCL6 |
| TC04000173.hg.1 | -2.04 | PSR04002648.hg.1 | SOD3 |
| TC04000173.hg.1 | -2.17 | JUC04001240.hg.1 | SOD3 |
| TC04000173.hg.1 | -2.34 | PSR04002647.hg.1 | SOD3 |
| TC04000173.hg.1 | -4.57 | PSR04002645.hg.1 | SOD3 |
| TC04001328.hg.1 | -2.04 | PSR04018187.hg.1 | ANTXR2 |
| TC04001328.hg.1 | -2.14 | PSR04018195.hg.1 | ANTXR2 |
| TC04001328.hg.1 | -2.15 | PSR04018217.hg.1 | ANTXR2 |
| TC04001328.hg.1 | -3.07 | JUC04009688.hg.1 | ANTXR2 |
| TC04001419.hg.1 | -2.04 | PSR04019842.hg.1 | H2AFZ |
| TC04001419.hg.1 | -2.06 | PSR04019832.hg.1 | H2AFZ |
| TC04001419.hg.1 | -2.37 | JUC04010412.hg.1 | H2AFZ |
| TC04001419.hg.1 | -2.57 | PSR04019834.hg.1 | H2AFZ |
| TC05001243.hg.1 | -2.04 | PSR05017456.hg.1 | ADAMTS12 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC05001243.hg.1 | -2.09 | PSR05017459.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.13 | JUC05008965.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.17 | JUC05008964.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.22 | JUC05008972.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.3 | JUC05008954.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.38 | PSR05017458.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.39 | JUC05008974.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.48 | JUC05008957.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.95 | JUC05008952.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -2.99 | PSR05017471.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -3.01 | JUC05008970.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -3.52 | PSR05017472.hg.1 | ADAMTS12 |
| TC05001243.hg.1 | -3.9 | PSR05017467.hg.1 | ADAMTS12 |
| TC05001945.hg.1 | -2.04 | PSR05026994.hg.1 | ZNF300P1 |
| TC05001945.hg.1 | -2.16 | JUC05013737.hg.1 | ZNF300P1 |
| TC06001535.hg.1 | -2.04 | PSR06017689.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.12 | JUC06008588.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.14 | PSR06017686.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.18 | PSR06017677.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.2 | JUC06008585.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.5 | PSR06017690.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.55 | PSR06017679.hg.1 | LY6G5C |
| TC06001535.hg.1 | -2.69 | PSR06017687.hg.1 | LY6G5C |
| TC06002260.hg.1 | -2.04 | PSR06028405.hg.1 | SERAC1 |
| TC06002260.hg.1 | -2.42 | JUC06014204.hg.1 | SERAC1 |
| TC07000308.hg.1 | -2.04 | JUC07002274.hg.1 | ABCA13 |
| TC07000308.hg.1 | -2.11 | PSR07004684.hg.1 | ABCA13 |
| TC07000308.hg.1 | -2.17 | JUC07002245.hg.1 | ABCA13 |
| TC07000308.hg.1 | -2.21 | JUC07002269.hg.1 | ABCA13 |
| TC07000308.hg.1 | -2.36 | PSR07004648.hg.1 | ABCA13 |
| TC07000308.hg.1 | -2.68 | JUC07002254.hg.1 | ABCA13 |
| TC07000308.hg.1 | -2.98 | JUC07002276.hg.1 | ABCA13 |
| TC07000308.hg.1 | -4.13 | PSR07004649.hg.1 | ABCA13 |
| TC07003332.hg.1 | -2.04 | PSR07006545.hg.1 | TRIM74, TRIM |
| TC07003332.hg.1 | -2.23 | PSR07006533.hg.1 | TRIM74, TRIM |
| TC07003332.hg.1 | -2.53 | JUC07020985.hg.1 | TRIM74, TRIM |
| TC07003332.hg.1 | -2.56 | PSR07006530.hg.1 | TRIM74, TRIM |
| TC08000643.hg.1 | -2.04 | PSR08008742.hg.1 | BAALC |
| TC08000643.hg.1 | -2.07 | PSR08008740.hg.1 | BAALC |
| TC08000643.hg.1 | -2.13 | PSR08008744.hg.1 | BAALC |
| TC08000643.hg.1 | -2.28 | PSR08008746.hg.1 | BAALC |
| TC08000643.hg.1 | -3.04 | PSR08008749.hg.1 | BAALC |
| TC08000643.hg.1 | -4.66 | JUC08004447.hg.1 | BAALC |
| TC08001110.hg.1 | -2.04 | JUC08007338.hg.1 | GSR |
| TC08001110.hg.1 | -2.16 | PSR08014328.hg.1 | GSR |
| TC09001286.hg.1 | -2.04 | JUC09008640.hg.1 | SLC28A3 |
| TC09001286.hg.1 | -2.11 | JUC09008659.hg.1 | SLC28A3 |
| TC09001286.hg.1 | -2.26 | PSR09016075.hg.1 | SLC28A3 |
| TC09001286.hg.1 | -2.47 | JUC09008651.hg.1 | SLC28A3 |
| TC09001286.hg.1 | -2.64 | JUC09008656.hg.1 | SLC28A3 |
| TC0X000253.hg.1 | -2.04 | PSR0X003030.hg.1 | EBP |
| TC0X000253.hg.1 | -2.09 | JUC0X001636.hg.1 | EBP |
| TC0X000253.hg.1 | -2.11 | JUC0X001634.hg.1 | EBP |
| TC0X000253.hg.1 | -2.15 | PSR0X003027.hg.1 | EBP |
| TC0X000253.hg.1 | -2.29 | PSR0X003015.hg.1 | EBP |
| TC0X000253.hg.1 | -2.32 | PSR0X003023.hg.1 | EBP |
| TC12000108.hg.1 | -2.04 | PSR12001476.hg.1 | CLSTN3 |
| TC12000108.hg.1 | -3.97 | JUC12000701.hg.1 | CLSTN3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12000134.hg.1 | -2.04 | PSR12001727.hg.1 | RIMKLB |
| TC12000134.hg.1 | -2.8 | JUC12000832.hg.1 | RIMKLB |
| TC12000134.hg.1 | -3.34 | JUC12000830.hg.1 | RIMKLB |
| TC12001583.hg.1 | -2.04 | JUC12011641.hg.1 | ITGA7 |
| TC12001583.hg.1 | -2.13 | PSR12020975.hg.1 | ITGA7 |
| TC12001583.hg.1 | -2.49 | JUC12011668.hg.1 | ITGA7 |
| TC12001583.hg.1 | -2.79 | JUC12011652.hg.1 | ITGA7 |
| TC12001583.hg.1 | -2.91 | JUC12011649.hg.1 | ITGA7 |
| TC12001583.hg.1 | -3.95 | JUC12011647.hg.1 | ITGA7 |
| TC12001583.hg.1 | -5.51 | JUC12011650.hg.1 | ITGA7 |
| TC12001726.hg.1 | -2.04 | PSR12022963.hg.1 | ZFC3H1 |
| TC12001726.hg.1 | -2.29 | JUC12012647.hg.1 | ZFC3H1 |
| TC12001726.hg.1 | -2.45 | PSR12022943.hg.1 | ZFC3H1 |
| TC14000175.hg.1 | -2.04 | PSR14001978.hg.1 | |
| TC14000175.hg.1 | -2.04 | JUC14000845.hg.1 | |
| TC14000175.hg.1 | -2.05 | JUC14000844.hg.1 | |
| TC14000175.hg.1 | -2.1 | PSR14001977.hg.1 | |
| TC14000175.hg.1 | -2.12 | PSR14001987.hg.1 | |
| TC14000175.hg.1 | -2.18 | JUC14000853.hg.1 | |
| TC14000175.hg.1 | -2.21 | JUC14000847.hg.1 | |
| TC14000175.hg.1 | -2.4 | PSR14001988.hg.1 | |
| TC14000175.hg.1 | -2.42 | PSR14001986.hg.1 | |
| TC16001283.hg.1 | -2.04 | JUC16010170.hg.1 | ADAT1 |
| TC16001283.hg.1 | -2.18 | JUC16010171.hg.1 | ADAT1 |
| TC16001283.hg.1 | -2.53 | PSR16017868.hg.1 | ADAT1 |
| TC17000019.hg.1 | -2.04 | JUC17000101.hg.1 | HIC1 |
| TC17000019.hg.1 | -2.95 | PSR17000196.hg.1 | HIC1 |
| TC17000019.hg.1 | -2.98 | PSR17000195.hg.1 | HIC1 |
| TC19000625.hg.1 | -2.04 | PSR19008668.hg.1 | CEACAM19 |
| TC19000625.hg.1 | -2.15 | JUC19005169.hg.1 | CEACAM19 |
| TC19000625.hg.1 | -2.55 | JUC19005174.hg.1 | CEACAM19 |
| TC19000925.hg.1 | -2.04 | PSR19012711.hg.1 | ZNF471 |
| TC19000925.hg.1 | -2.22 | JUC19007205.hg.1 | ZNF471 |
| TC19001048.hg.1 | -2.04 | JUC19008058.hg.1 | PIP5K1C |
| TC19001048.hg.1 | -2.85 | JUC19008042.hg.1 | PIP5K1C |
| TC19001048.hg.1 | -3.51 | PSR19014290.hg.1 | PIP5K1C |
| TC20000244.hg.1 | -2.04 | PSR20003126.hg.1 | TP53INP2 |
| TC20000244.hg.1 | -2.25 | PSR20003117.hg.1 | TP53INP2 |
| TC20000244.hg.1 | -2.37 | JUC20001755.hg.1 | TP53INP2 |
| TC20000244.hg.1 | -2.88 | JUC20001748.hg.1 | TP53INP2 |
| TC21000500.hg.1 | -2.04 | PSR21006054.hg.1 | CBS |
| TC21000500.hg.1 | -2.08 | JUC21003099.hg.1 | CBS |
| TC21000500.hg.1 | -2.96 | JUC21003125.hg.1 | CBS |
| TC22000128.hg.1 | -2.04 | PSR22002257.hg.1 | RAB36 |
| TC22000128.hg.1 | -2.04 | JUC22000655.hg.1 | RAB36 |
| TC22000128.hg.1 | -2.11 | JUC22000661.hg.1 | RAB36 |
| TC22000128.hg.1 | -2.14 | PSR22002260.hg.1 | RAB36 |
| TC22000128.hg.1 | -2.4 | PSR22002250.hg.1 | RAB36 |
| TC22000128.hg.1 | -2.56 | PSR22002246.hg.1 | RAB36 |
| TC22000128.hg.1 | -2.79 | PSR22002256.hg.1 | RAB36 |
| TC01000638.hg.1 | -2.05 | JUC01005374.hg.1 | BTF3L4 |
| TC01000638.hg.1 | -2.3 | PSR01010441.hg.1 | BTF3L4 |
| TC01002616.hg.1 | -2.05 | JUC01021888.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -2.13 | JUC01021897.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -2.28 | PSR01040777.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -2.35 | PSR01040798.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -3.15 | PSR01040800.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -3.22 | PSR01040802.hg.1 | PIK3R3, LOC |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01002616.hg.1 | -3.54 | PSR01040807.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -3.8 | JUC01021883.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -4.45 | PSR01040808.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -4.68 | PSR01040805.hg.1 | PIK3R3, LOC |
| TC01002616.hg.1 | -4.98 | PSR01040799.hg.1 | PIK3R3, LOC |
| TC02000219.hg.1 | -2.05 | JUC02001678.hg.1 | LTBP1 |
| TC02000219.hg.1 | -2.38 | PSR02003226.hg.1 | LTBP1 |
| TC02000219.hg.1 | -2.68 | PSR02003222.hg.1 | LTBP1 |
| TC02000219.hg.1 | -2.96 | PSR02003219.hg.1 | LTBP1 |
| TC02000219.hg.1 | -4.04 | JUC02001707.hg.1 | LTBP1 |
| TC02000219.hg.1 | -4.07 | JUC02001696.hg.1 | LTBP1 |
| TC02000219.hg.1 | -4.21 | PSR02003224.hg.1 | LTBP1 |
| TC02000219.hg.1 | -4.31 | JUC02001695.hg.1 | LTBP1 |
| TC02000219.hg.1 | -4.34 | PSR02003223.hg.1 | LTBP1 |
| TC02000219.hg.1 | -5.22 | JUC02001686.hg.1 | LTBP1 |
| TC02000219.hg.1 | -5.75 | JUC02001689.hg.1 | LTBP1 |
| TC02000219.hg.1 | -5.91 | JUC02001674.hg.1 | LTBP1 |
| TC02000750.hg.1 | -2.05 | PSR02011673.hg.1 | STEAP3 |
| TC02000750.hg.1 | -2.54 | JUC02006177.hg.1 | STEAP3 |
| TC02000750.hg.1 | -4.04 | PSR02011672.hg.1 | STEAP3 |
| TC02001174.hg.1 | -2.05 | JUC02009510.hg.1 | CFLAR |
| TC02001174.hg.1 | -2.26 | PSR02017831.hg.1 | CFLAR |
| TC02001174.hg.1 | -4.84 | PSR02017810.hg.1 | CFLAR |
| TC02004955.hg.1 | -2.05 | PSR02002669.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.26 | PSR02002655.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.29 | PSR02002656.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.39 | PSR02002672.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.75 | PSR02002671.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.84 | PSR02002661.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.89 | JUC02031634.hg.1 | PPP1CB |
| TC02004955.hg.1 | -2.94 | JUC02031637.hg.1 | PPP1CB |
| TC02004955.hg.1 | -3.21 | JUC02031628.hg.1 | PPP1CB |
| TC02005014.hg.1 | -2.05 | PSR02023229.hg.1 | UBE2F |
| TC02005014.hg.1 | -2.13 | PSR02023231.hg.1 | UBE2F |
| TC02005014.hg.1 | -2.21 | JUC02032236.hg.1 | UBE2F |
| TC02005014.hg.1 | -2.41 | JUC02032221.hg.1 | UBE2F |
| TC03000884.hg.1 | -2.05 | JUC03007959.hg.1 | |
| TC03000884.hg.1 | -2.09 | PSR03015698.hg.1 | |
| TC03000884.hg.1 | -2.48 | PSR03015697.hg.1 | |
| TC03003391.hg.1 | -2.05 | JUC03024359.hg.1 | SLC12A8 |
| TC03003391.hg.1 | -2.08 | PSR03031344.hg.1 | SLC12A8 |
| TC03003391.hg.1 | -2.27 | PSR03031341.hg.1 | SLC12A8 |
| TC03003391.hg.1 | -2.44 | PSR03031345.hg.1 | SLC12A8 |
| TC03003391.hg.1 | -2.89 | PSR03031332.hg.1 | SLC12A8 |
| TC03003391.hg.1 | -3.3 | PSR03031334.hg.1 | SLC12A8 |
| TC05000772.hg.1 | -2.05 | JUC05005690.hg.1 | RELL2 |
| TC05000772.hg.1 | -3.31 | PSR05010977.hg.1 | RELL2 |
| TC05002108.hg.1 | -2.05 | PSR05029097.hg.1 | DBN1 |
| TC05002108.hg.1 | -2.11 | JUC05014798.hg.1 | DBN1 |
| TC05002108.hg.1 | -2.15 | JUC05014812.hg.1 | DBN1 |
| TC05002108.hg.1 | -2.31 | JUC05014803.hg.1 | DBN1 |
| TC06001290.hg.1 | -2.05 | PSR06015440.hg.1 | DTNBP1 |
| TC06001290.hg.1 | -3.82 | JUC06007691.hg.1 | DTNBP1 |
| TC07000916.hg.1 | -2.05 | JUC07006859.hg.1 | TRBV27 |
| TC07000916.hg.1 | -2.15 | JUC07006855.hg.1 | TRBV27 |
| TC07000916.hg.1 | -2.28 | PSR07014203.hg.1 | TRBV27 |
| TC07001496.hg.1 | -2.05 | JUC07011025.hg.1 | TRIM50 |
| TC07001496.hg.1 | -2.06 | PSR07022418.hg.1 | TRIM50 |

| | | | |
|-----------------|-------|------------------|------------|
| TC07001927.hg.1 | -2.05 | JUC07014851.hg.1 | BRAF |
| TC07001927.hg.1 | -2.06 | PSR07029937.hg.1 | BRAF |
| TC07001927.hg.1 | -2.12 | JUC07014849.hg.1 | BRAF |
| TC07001927.hg.1 | -2.12 | JUC07014861.hg.1 | BRAF |
| TC08001476.hg.1 | -2.05 | JUC08009753.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.07 | PSR08019169.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.12 | JUC08009756.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.18 | PSR08019184.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.2 | PSR08019161.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.55 | PSR08019166.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.61 | PSR08019186.hg.1 | RNF19A |
| TC08001476.hg.1 | -2.91 | PSR08019176.hg.1 | RNF19A |
| TC08001476.hg.1 | -3.06 | PSR08019178.hg.1 | RNF19A |
| TC09000738.hg.1 | -2.05 | PSR09009326.hg.1 | FUBP3 |
| TC09000738.hg.1 | -3.61 | JUC09005087.hg.1 | FUBP3 |
| TC10001594.hg.1 | -2.05 | PSR10020667.hg.1 | NDUFB8, SE |
| TC10001594.hg.1 | -2.06 | PSR10020653.hg.1 | NDUFB8, SE |
| TC10001594.hg.1 | -2.21 | PSR10020666.hg.1 | NDUFB8, SE |
| TC10001594.hg.1 | -2.65 | PSR10020669.hg.1 | NDUFB8, SE |
| TC10001594.hg.1 | -2.76 | JUC10011981.hg.1 | NDUFB8, SE |
| TC10001735.hg.1 | -2.05 | PSR10023017.hg.1 | FLJ37035 |
| TC10001735.hg.1 | -2.43 | PSR10023016.hg.1 | FLJ37035 |
| TC10001735.hg.1 | -3.35 | PSR10023024.hg.1 | FLJ37035 |
| TC10001735.hg.1 | -3.98 | JUC10013281.hg.1 | FLJ37035 |
| TC10001735.hg.1 | -4.88 | PSR10023013.hg.1 | FLJ37035 |
| TC11000373.hg.1 | -2.05 | PSR11004665.hg.1 | |
| TC11000373.hg.1 | -2.06 | JUC11002494.hg.1 | |
| TC11000650.hg.1 | -2.05 | PSR11008199.hg.1 | BANF1 |
| TC11000650.hg.1 | -2.45 | JUC11004250.hg.1 | BANF1 |
| TC11000650.hg.1 | -2.9 | JUC11004253.hg.1 | BANF1 |
| TC11000650.hg.1 | -3.04 | PSR11008200.hg.1 | BANF1 |
| TC12000812.hg.1 | -2.05 | JUC12005666.hg.1 | CHST11 |
| TC12000812.hg.1 | -2.1 | PSR12010343.hg.1 | CHST11 |
| TC12000812.hg.1 | -2.15 | PSR12010349.hg.1 | CHST11 |
| TC12000812.hg.1 | -2.72 | JUC12005665.hg.1 | CHST11 |
| TC12001916.hg.1 | -2.05 | JUC12013960.hg.1 | NUAK1 |
| TC12001916.hg.1 | -2.3 | PSR12025025.hg.1 | NUAK1 |
| TC12001916.hg.1 | -2.68 | JUC12013955.hg.1 | NUAK1 |
| TC12001952.hg.1 | -2.05 | PSR12025379.hg.1 | MMAB |
| TC12001952.hg.1 | -2.07 | JUC12014170.hg.1 | MMAB |
| TC12001952.hg.1 | -2.47 | JUC12014172.hg.1 | MMAB |
| TC14001062.hg.1 | -2.05 | PSR14012074.hg.1 | LOC283547 |
| TC14001062.hg.1 | -2.15 | PSR14012077.hg.1 | LOC283547 |
| TC14001062.hg.1 | -3.16 | JUC14006033.hg.1 | LOC283547 |
| TC15001357.hg.1 | -2.05 | PSR15013070.hg.1 | TRPM7 |
| TC15001357.hg.1 | -3 | JUC15007004.hg.1 | TRPM7 |
| TC15001989.hg.1 | -2.05 | JUC15010053.hg.1 | DNM1P46 |
| TC15001989.hg.1 | -3.63 | PSR15018461.hg.1 | DNM1P46 |
| TC16000601.hg.1 | -2.05 | JUC16004817.hg.1 | DHX38 |
| TC16000601.hg.1 | -3.29 | PSR16008676.hg.1 | DHX38 |
| TC17000077.hg.1 | -2.05 | PSR17000941.hg.1 | XAF1 |
| TC17000077.hg.1 | -2.19 | PSR17000931.hg.1 | XAF1 |
| TC17000077.hg.1 | -2.27 | JUC17000580.hg.1 | XAF1 |
| TC17000077.hg.1 | -2.3 | PSR17000937.hg.1 | XAF1 |
| TC17000077.hg.1 | -2.51 | JUC17000577.hg.1 | XAF1 |
| TC17000077.hg.1 | -2.53 | PSR17000942.hg.1 | XAF1 |
| TC17000077.hg.1 | -2.9 | PSR17000936.hg.1 | XAF1 |
| TC17000077.hg.1 | -3.25 | JUC17000574.hg.1 | XAF1 |

| | | | |
|-----------------|-------|------------------|----------|
| TC17000077.hg.1 | -3.42 | PSR17000946.hg.1 | XAF1 |
| TC17000077.hg.1 | -3.99 | JUC17000579.hg.1 | XAF1 |
| TC17001806.hg.1 | -2.05 | PSR17024164.hg.1 | LRRC37A3 |
| TC17001806.hg.1 | -2.08 | JUC17013513.hg.1 | LRRC37A3 |
| TC17001806.hg.1 | -3.5 | JUC17013509.hg.1 | LRRC37A3 |
| TC18000324.hg.1 | -2.05 | JUC18002538.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.21 | PSR18003753.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.32 | JUC18002535.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.36 | JUC18002582.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.4 | JUC18002552.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.48 | JUC18002574.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.63 | PSR18003742.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.69 | PSR18003752.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.73 | JUC18002549.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -2.79 | JUC18002561.hg.1 | PIEZO2 |
| TC18000324.hg.1 | -3.02 | PSR18003749.hg.1 | PIEZO2 |
| TC19001445.hg.1 | -2.05 | PSR19019434.hg.1 | DMKN |
| TC19001445.hg.1 | -2.1 | PSR19019445.hg.1 | DMKN |
| TC19001445.hg.1 | -2.12 | PSR19019480.hg.1 | DMKN |
| TC19001445.hg.1 | -2.13 | JUC19011287.hg.1 | DMKN |
| TC19001445.hg.1 | -2.15 | JUC19011271.hg.1 | DMKN |
| TC19001445.hg.1 | -3.17 | JUC19011288.hg.1 | DMKN |
| TC19001445.hg.1 | -3.22 | PSR19019541.hg.1 | DMKN |
| TC19001445.hg.1 | -3.62 | JUC19011308.hg.1 | DMKN |
| TC19001445.hg.1 | -3.88 | PSR19019416.hg.1 | DMKN |
| TC21000439.hg.1 | -2.05 | PSR21005138.hg.1 | PIGP |
| TC21000439.hg.1 | -2.09 | JUC21002632.hg.1 | PIGP |
| TC21000439.hg.1 | -2.1 | PSR21005144.hg.1 | PIGP |
| TC21000439.hg.1 | -2.12 | JUC21002638.hg.1 | PIGP |
| TC21000439.hg.1 | -2.85 | JUC21002631.hg.1 | PIGP |
| TC6_cox_hap2000 | -2.05 | JUC6_cox_hap2000 | HLA-G |
| TC6_cox_hap2000 | -2.58 | PSR6_cox_hap2000 | HLA-G |
| TC6_qbl_hap6000 | -2.05 | JUC6_qbl_hap6000 | HLA-G |
| TC6_qbl_hap6000 | -2.58 | PSR6_qbl_hap6000 | HLA-G |
| TC01000789.hg.1 | -2.06 | PSR01012594.hg.1 | NEXN |
| TC01000789.hg.1 | -2.08 | PSR01012576.hg.1 | NEXN |
| TC01000789.hg.1 | -2.7 | PSR01012593.hg.1 | NEXN |
| TC01000789.hg.1 | -3.08 | JUC01006603.hg.1 | NEXN |
| TC01000789.hg.1 | -3.59 | PSR01012588.hg.1 | NEXN |
| TC01000789.hg.1 | -3.79 | PSR01012573.hg.1 | NEXN |
| TC01000789.hg.1 | -3.92 | PSR01012591.hg.1 | NEXN |
| TC01000789.hg.1 | -5.56 | PSR01012584.hg.1 | NEXN |
| TC01001473.hg.1 | -2.06 | PSR01022840.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -2.16 | PSR01022835.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -3.89 | PSR01022841.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -4.1 | PSR01022839.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -4.22 | PSR01022836.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -5.05 | JUC01012036.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -5.88 | PSR01022834.hg.1 | ATP1B1 |
| TC01001473.hg.1 | -6.8 | JUC01012037.hg.1 | ATP1B1 |
| TC01003608.hg.1 | -2.06 | PSR01055514.hg.1 | RGS16 |
| TC01003608.hg.1 | -2.68 | JUC01028950.hg.1 | RGS16 |
| TC01003608.hg.1 | -4.94 | JUC01028952.hg.1 | RGS16 |
| TC01003636.hg.1 | -2.06 | PSR01055903.hg.1 | TPR |
| TC01003636.hg.1 | -2.27 | JUC01029144.hg.1 | TPR |
| TC01003636.hg.1 | -2.74 | JUC01029169.hg.1 | TPR |
| TC01003636.hg.1 | -4.22 | JUC01029184.hg.1 | TPR |
| TC01003636.hg.1 | -4.87 | JUC01029158.hg.1 | TPR |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01003961.hg.1 | -2.06 | JUC01031422.hg.1 | TTC13 |
| TC01003961.hg.1 | -2.26 | JUC01031395.hg.1 | TTC13 |
| TC01003961.hg.1 | -3.09 | PSR01060009.hg.1 | TTC13 |
| TC02000240.hg.1 | -2.06 | JUC02001865.hg.1 | FAM82A1 |
| TC02000240.hg.1 | -2.55 | PSR02003590.hg.1 | FAM82A1 |
| TC02000240.hg.1 | -3.21 | JUC02001874.hg.1 | FAM82A1 |
| TC02000240.hg.1 | -3.56 | JUC02001883.hg.1 | FAM82A1 |
| TC02000304.hg.1 | -2.06 | PSR02004666.hg.1 | GTF2A1L, ST |
| TC02000304.hg.1 | -2.15 | PSR02004669.hg.1 | GTF2A1L, ST |
| TC02000304.hg.1 | -2.44 | JUC02002451.hg.1 | GTF2A1L, ST |
| TC02000304.hg.1 | -2.91 | PSR02004664.hg.1 | GTF2A1L, ST |
| TC02000304.hg.1 | -3.14 | JUC02002440.hg.1 | GTF2A1L, ST |
| TC02002480.hg.1 | -2.06 | PSR02039095.hg.1 | FAP |
| TC02002480.hg.1 | -2.32 | PSR02039136.hg.1 | FAP |
| TC02002480.hg.1 | -2.4 | PSR02039134.hg.1 | FAP |
| TC02002480.hg.1 | -2.53 | JUC02020490.hg.1 | FAP |
| TC02002480.hg.1 | -2.54 | PSR02039100.hg.1 | FAP |
| TC02002480.hg.1 | -2.58 | PSR02039135.hg.1 | FAP |
| TC02002480.hg.1 | -2.69 | JUC02020483.hg.1 | FAP |
| TC02002480.hg.1 | -2.82 | JUC02020485.hg.1 | FAP |
| TC02002480.hg.1 | -3.16 | PSR02039088.hg.1 | FAP |
| TC02002480.hg.1 | -3.22 | JUC02020488.hg.1 | FAP |
| TC02002579.hg.1 | -2.06 | PSR02041378.hg.1 | ZNF385B |
| TC02002579.hg.1 | -2.13 | PSR02041405.hg.1 | ZNF385B |
| TC02002579.hg.1 | -2.48 | PSR02041392.hg.1 | ZNF385B |
| TC02002579.hg.1 | -2.52 | JUC02021573.hg.1 | ZNF385B |
| TC02002579.hg.1 | -2.89 | JUC02021574.hg.1 | ZNF385B |
| TC02002579.hg.1 | -2.91 | JUC02021559.hg.1 | ZNF385B |
| TC02002579.hg.1 | -2.96 | PSR02041400.hg.1 | ZNF385B |
| TC03000140.hg.1 | -2.06 | JUC03001365.hg.1 | |
| TC03000140.hg.1 | -2.54 | PSR03002574.hg.1 | |
| TC03000140.hg.1 | -2.67 | PSR03002575.hg.1 | |
| TC03000202.hg.1 | -2.06 | JUC03002149.hg.1 | RPSA, SNOR |
| TC03000202.hg.1 | -2.16 | PSR03004017.hg.1 | RPSA, SNOR |
| TC05000134.hg.1 | -2.06 | PSR05001299.hg.1 | C5orf22 |
| TC05000134.hg.1 | -2.08 | PSR05001308.hg.1 | C5orf22 |
| TC05000134.hg.1 | -2.49 | JUC05000734.hg.1 | C5orf22 |
| TC05000134.hg.1 | -2.53 | PSR05001297.hg.1 | C5orf22 |
| TC05000134.hg.1 | -3.83 | PSR05001296.hg.1 | C5orf22 |
| TC06001873.hg.1 | -2.06 | PSR06022698.hg.1 | MB21D1 |
| TC06001873.hg.1 | -2.35 | JUC06010993.hg.1 | MB21D1 |
| TC07000495.hg.1 | -2.06 | PSR07007032.hg.1 | PTPN12 |
| TC07000495.hg.1 | -2.34 | JUC07003331.hg.1 | PTPN12 |
| TC07000495.hg.1 | -2.35 | PSR07007008.hg.1 | PTPN12 |
| TC07000495.hg.1 | -2.41 | JUC07003335.hg.1 | PTPN12 |
| TC07000495.hg.1 | -2.58 | JUC07003311.hg.1 | PTPN12 |
| TC07000562.hg.1 | -2.06 | PSR07008308.hg.1 | PEG10 |
| TC07000562.hg.1 | -2.07 | PSR07008313.hg.1 | PEG10 |
| TC07000562.hg.1 | -2.1 | PSR07008309.hg.1 | PEG10 |
| TC07000562.hg.1 | -2.32 | PSR07008307.hg.1 | PEG10 |
| TC07000562.hg.1 | -2.34 | PSR07008311.hg.1 | PEG10 |
| TC07000562.hg.1 | -2.37 | PSR07008310.hg.1 | PEG10 |
| TC07000562.hg.1 | -3.02 | JUC07003978.hg.1 | PEG10 |
| TC07000562.hg.1 | -3.33 | JUC07003979.hg.1 | PEG10 |
| TC07000562.hg.1 | -6.77 | JUC07003980.hg.1 | PEG10 |
| TC07000991.hg.1 | -2.06 | JUC07007218.hg.1 | KRBA1 |
| TC07000991.hg.1 | -2.34 | PSR07014907.hg.1 | KRBA1 |
| TC08001658.hg.1 | -2.06 | PSR08021579.hg.1 | SLA |

| | | | |
|-----------------|-------|------------------|------------|
| TC08001658.hg.1 | -2.07 | JUC08011009.hg.1 | SLA |
| TC08001658.hg.1 | -2.15 | PSR08021552.hg.1 | SLA |
| TC08001658.hg.1 | -2.18 | JUC08011020.hg.1 | SLA |
| TC08001658.hg.1 | -2.27 | JUC08011022.hg.1 | SLA |
| TC08001658.hg.1 | -3.3 | JUC08011037.hg.1 | SLA |
| TC08001658.hg.1 | -8 | JUC08011016.hg.1 | SLA |
| TC0X000903.hg.1 | -2.06 | JUC0X006045.hg.1 | SH3KBP1 |
| TC0X000903.hg.1 | -2.18 | JUC0X006019.hg.1 | SH3KBP1 |
| TC0X000903.hg.1 | -2.31 | PSR0X012180.hg.1 | SH3KBP1 |
| TC10000253.hg.1 | -2.06 | JUC10001654.hg.1 | ZNF37A |
| TC10000253.hg.1 | -2.58 | PSR10002928.hg.1 | ZNF37A |
| TC10000253.hg.1 | -3.88 | PSR10002940.hg.1 | ZNF37A |
| TC10000756.hg.1 | -2.06 | PSR10008969.hg.1 | LOC1005057 |
| TC10000756.hg.1 | -2.13 | JUC10004994.hg.1 | LOC1005057 |
| TC10001653.hg.1 | -2.06 | JUC10012577.hg.1 | LOC1005059 |
| TC10001653.hg.1 | -2.22 | PSR10021727.hg.1 | LOC1005059 |
| TC10001653.hg.1 | -2.22 | PSR10021731.hg.1 | LOC1005059 |
| TC10001653.hg.1 | -2.39 | PSR10021730.hg.1 | LOC1005059 |
| TC10001653.hg.1 | -2.6 | PSR10021722.hg.1 | LOC1005059 |
| TC12001624.hg.1 | -2.06 | JUC12012070.hg.1 | ARHGAP9 |
| TC12001624.hg.1 | -2.11 | PSR12021934.hg.1 | ARHGAP9 |
| TC12001624.hg.1 | -2.19 | JUC12012081.hg.1 | ARHGAP9 |
| TC12001624.hg.1 | -2.26 | PSR12021947.hg.1 | ARHGAP9 |
| TC12001624.hg.1 | -2.87 | JUC12012076.hg.1 | ARHGAP9 |
| TC12001890.hg.1 | -2.06 | PSR12024684.hg.1 | IGF1 |
| TC12001890.hg.1 | -2.11 | JUC12013754.hg.1 | IGF1 |
| TC12001890.hg.1 | -2.27 | PSR12024700.hg.1 | IGF1 |
| TC12002155.hg.1 | -2.06 | PSR12028270.hg.1 | ANKLE2 |
| TC12002155.hg.1 | -2.63 | JUC12015910.hg.1 | ANKLE2 |
| TC12002155.hg.1 | -2.71 | PSR12028255.hg.1 | ANKLE2 |
| TC12002155.hg.1 | -3.71 | JUC12015916.hg.1 | ANKLE2 |
| TC15000662.hg.1 | -2.06 | JUC15002872.hg.1 | BBS4 |
| TC15000662.hg.1 | -2.71 | PSR15005677.hg.1 | BBS4 |
| TC16001029.hg.1 | -2.06 | JUC16008285.hg.1 | 1-Sep |
| TC16001029.hg.1 | -2.39 | JUC16008289.hg.1 | 1-Sep |
| TC16001029.hg.1 | -2.41 | JUC16008284.hg.1 | 1-Sep |
| TC16001029.hg.1 | -2.88 | PSR16014748.hg.1 | 1-Sep |
| TC16001029.hg.1 | -4.01 | JUC16008290.hg.1 | 1-Sep |
| TC17000919.hg.1 | -2.06 | PSR17012056.hg.1 | ENDOV, LOC |
| TC17000919.hg.1 | -2.18 | PSR17012048.hg.1 | ENDOV, LOC |
| TC17000919.hg.1 | -2.3 | PSR17012059.hg.1 | ENDOV, LOC |
| TC17000919.hg.1 | -2.59 | PSR17012054.hg.1 | ENDOV, LOC |
| TC17000919.hg.1 | -3.23 | JUC17006804.hg.1 | ENDOV, LOC |
| TC19000585.hg.1 | -2.06 | PSR19008131.hg.1 | CEACAM3 |
| TC19000585.hg.1 | -2.06 | JUC19004853.hg.1 | CEACAM3 |
| TC19000585.hg.1 | -2.09 | PSR19008133.hg.1 | CEACAM3 |
| TC19001647.hg.1 | -2.06 | PSR19022426.hg.1 | PNMAL1 |
| TC19001647.hg.1 | -2.21 | JUC19012777.hg.1 | PNMAL1 |
| TC19001647.hg.1 | -2.22 | JUC19012776.hg.1 | PNMAL1 |
| TC19001788.hg.1 | -2.06 | JUC19013827.hg.1 | ZNF577 |
| TC19001788.hg.1 | -2.26 | PSR19024296.hg.1 | ZNF577 |
| TC19001788.hg.1 | -2.31 | PSR19024302.hg.1 | ZNF577 |
| TC01002264.hg.1 | -2.07 | JUC01018520.hg.1 | CROCCP3 |
| TC01002264.hg.1 | -2.19 | JUC01018535.hg.1 | CROCCP3 |
| TC01002264.hg.1 | -2.53 | PSR01034563.hg.1 | CROCCP3 |
| TC01003004.hg.1 | -2.07 | PSR01046712.hg.1 | PHTF1 |
| TC01003004.hg.1 | -2.08 | PSR01046717.hg.1 | PHTF1 |
| TC01003004.hg.1 | -2.13 | JUC01025067.hg.1 | PHTF1 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC01003004.hg.1 | -2.16 | PSR01046705.hg.1 | PHTF1 |
| TC01003004.hg.1 | -2.43 | PSR01046685.hg.1 | PHTF1 |
| TC01003004.hg.1 | -2.67 | JUC01025070.hg.1 | PHTF1 |
| TC01003004.hg.1 | -2.74 | JUC01025075.hg.1 | PHTF1 |
| TC01003004.hg.1 | -3.11 | JUC01025052.hg.1 | PHTF1 |
| TC01003605.hg.1 | -2.07 | PSR01055461.hg.1 | GLUL |
| TC01003605.hg.1 | -2.08 | PSR01055455.hg.1 | GLUL |
| TC01003605.hg.1 | -2.2 | JUC01028939.hg.1 | GLUL |
| TC01003605.hg.1 | -2.45 | PSR01055489.hg.1 | GLUL |
| TC01003605.hg.1 | -2.58 | PSR01055462.hg.1 | GLUL |
| TC01003605.hg.1 | -2.78 | PSR01055445.hg.1 | GLUL |
| TC01003605.hg.1 | -2.88 | PSR01055475.hg.1 | GLUL |
| TC01003605.hg.1 | -3.09 | PSR01055472.hg.1 | GLUL |
| TC01003605.hg.1 | -3.76 | PSR01055467.hg.1 | GLUL |
| TC01003605.hg.1 | -4.23 | PSR01055466.hg.1 | GLUL |
| TC03000374.hg.1 | -2.07 | PSR03008023.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -2.12 | JUC03003956.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -2.15 | PSR03008029.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -2.16 | JUC03003947.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -2.19 | JUC03003936.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -2.64 | JUC03003958.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -3.09 | PSR03008026.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -3.53 | JUC03003942.hg.1 | SLMAP, LOC |
| TC03000374.hg.1 | -4.91 | JUC03003974.hg.1 | SLMAP, LOC |
| TC03001869.hg.1 | -2.07 | PSR03033737.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -2.1 | PSR03033765.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -2.23 | PSR03033778.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -2.27 | PSR03033794.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -2.45 | JUC03016777.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -2.51 | JUC03016788.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -2.58 | PSR03033762.hg.1 | PLSCR1 |
| TC03001869.hg.1 | -4.11 | JUC03016791.hg.1 | PLSCR1 |
| TC05001966.hg.1 | -2.07 | JUC05013959.hg.1 | FAM114A2 |
| TC05001966.hg.1 | -2.36 | PSR05027351.hg.1 | FAM114A2 |
| TC06001859.hg.1 | -2.07 | PSR06022593.hg.1 | LOC10050730 |
| TC06001859.hg.1 | -2.1 | JUC06010938.hg.1 | LOC10050730 |
| TC06001859.hg.1 | -2.14 | PSR06022601.hg.1 | LOC10050730 |
| TC06001859.hg.1 | -2.16 | PSR06022592.hg.1 | LOC10050730 |
| TC06001859.hg.1 | -3.63 | PSR06022594.hg.1 | LOC10050730 |
| TC06004065.hg.1 | -2.07 | PSR06002610.hg.1 | HLA-G |
| TC06004065.hg.1 | -2.35 | JUC06020837.hg.1 | HLA-G |
| TC08000682.hg.1 | -2.07 | PSR08009275.hg.1 | UTP23 |
| TC08000682.hg.1 | -3.01 | JUC08004734.hg.1 | UTP23 |
| TC08000682.hg.1 | -3.84 | PSR08009277.hg.1 | UTP23 |
| TC08000682.hg.1 | -4.07 | PSR08009269.hg.1 | UTP23 |
| TC08000682.hg.1 | -4.3 | JUC08004729.hg.1 | UTP23 |
| TC08000698.hg.1 | -2.07 | PSR08009416.hg.1 | DEPTOR |
| TC08000698.hg.1 | -2.53 | JUC08004813.hg.1 | DEPTOR |
| TC09000965.hg.1 | -2.07 | PSR09012788.hg.1 | CDKN2B |
| TC09000965.hg.1 | -2.82 | JUC09006956.hg.1 | CDKN2B |
| TC09001211.hg.1 | -2.07 | PSR09015545.hg.1 | ALDH1A1 |
| TC09001211.hg.1 | -3.27 | JUC09008321.hg.1 | ALDH1A1 |
| TC10000672.hg.1 | -2.07 | JUC10004354.hg.1 | TBC1D12 |
| TC10000672.hg.1 | -2.28 | JUC10004347.hg.1 | TBC1D12 |
| TC10000672.hg.1 | -2.55 | PSR10007621.hg.1 | TBC1D12 |
| TC10000672.hg.1 | -2.8 | PSR10007634.hg.1 | TBC1D12 |
| TC10000797.hg.1 | -2.07 | PSR10009526.hg.1 | ADD3 |
| TC10000797.hg.1 | -2.08 | PSR10009514.hg.1 | ADD3 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC10000797.hg.1 | -2.37 | PSR10009507.hg.1 | ADD3 |
| TC10000797.hg.1 | -2.48 | JUC10005277.hg.1 | ADD3 |
| TC10000797.hg.1 | -2.56 | JUC10005302.hg.1 | ADD3 |
| TC10000797.hg.1 | -2.88 | JUC10005278.hg.1 | ADD3 |
| TC10001635.hg.1 | -2.07 | JUC10012348.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -2.32 | PSR10021389.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -2.66 | PSR10021378.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -2.69 | PSR10021388.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -2.73 | PSR10021390.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -2.87 | JUC10012362.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -2.99 | JUC10012347.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.19 | PSR10021375.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.2 | PSR10021387.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.26 | PSR10021383.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.41 | JUC10012352.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.73 | PSR10021385.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.83 | PSR10021377.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -3.99 | JUC10012354.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -4 | JUC10012357.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -4.2 | JUC10012356.hg.1 | SH3PXD2A |
| TC10001635.hg.1 | -5.54 | JUC10012346.hg.1 | SH3PXD2A |
| TC10001706.hg.1 | -2.07 | PSR10022532.hg.1 | |
| TC10001706.hg.1 | -2.46 | PSR10022533.hg.1 | |
| TC10001706.hg.1 | -2.5 | PSR10022535.hg.1 | |
| TC10001706.hg.1 | -3.41 | JUC10013057.hg.1 | |
| TC11001540.hg.1 | -2.07 | JUC11010286.hg.1 | CD59, C11orf |
| TC11001540.hg.1 | -2.46 | PSR11019304.hg.1 | CD59, C11orf |
| TC11001540.hg.1 | -3.28 | PSR11019326.hg.1 | CD59, C11orf |
| TC12001331.hg.1 | -2.07 | PSR12017464.hg.1 | TM7SF3 |
| TC12001331.hg.1 | -2.64 | JUC12009662.hg.1 | TM7SF3 |
| TC12001331.hg.1 | -2.82 | JUC12009658.hg.1 | TM7SF3 |
| TC12001971.hg.1 | -2.07 | PSR12025733.hg.1 | FAM109A |
| TC12001971.hg.1 | -2.07 | JUC12014324.hg.1 | FAM109A |
| TC12001971.hg.1 | -3.03 | JUC12014325.hg.1 | FAM109A |
| TC12002150.hg.1 | -2.07 | PSR12028140.hg.1 | GALNT9 |
| TC12002150.hg.1 | -2.08 | JUC12015831.hg.1 | GALNT9 |
| TC12002150.hg.1 | -2.67 | JUC12015826.hg.1 | GALNT9 |
| TC12002150.hg.1 | -2.78 | JUC12015836.hg.1 | GALNT9 |
| TC15001653.hg.1 | -2.07 | PSR15016156.hg.1 | RPP25 |
| TC15001653.hg.1 | -2.48 | JUC15008761.hg.1 | RPP25 |
| TC15001653.hg.1 | -3.31 | PSR15016151.hg.1 | RPP25 |
| TC17000675.hg.1 | -2.07 | PSR17008818.hg.1 | LUC7L3 |
| TC17000675.hg.1 | -2.25 | JUC17004807.hg.1 | LUC7L3 |
| TC17000675.hg.1 | -2.97 | PSR17008819.hg.1 | LUC7L3 |
| TC17000983.hg.1 | -2.07 | JUC17007524.hg.1 | MIR22HG, MI |
| TC17000983.hg.1 | -2.21 | PSR17013170.hg.1 | MIR22HG, MI |
| TC17000983.hg.1 | -2.31 | PSR17013171.hg.1 | MIR22HG, MI |
| TC17000983.hg.1 | -2.44 | JUC17007521.hg.1 | MIR22HG, MI |
| TC17000983.hg.1 | -3.03 | JUC17007523.hg.1 | MIR22HG, MI |
| TC18000145.hg.1 | -2.07 | PSR18001638.hg.1 | GALNT1 |
| TC18000145.hg.1 | -2.86 | JUC18001134.hg.1 | GALNT1 |
| TC18000433.hg.1 | -2.07 | PSR18004410.hg.1 | CDH2 |
| TC18000433.hg.1 | -2.25 | PSR18004405.hg.1 | CDH2 |
| TC18000433.hg.1 | -2.74 | JUC18002954.hg.1 | CDH2 |
| TC21000167.hg.1 | -2.07 | PSR21001597.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -2.31 | JUC21000816.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -2.47 | PSR21001590.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -2.54 | PSR21001587.hg.1 | KCNJ15 |

| | | | |
|-----------------|--------|------------------|----------|
| TC21000167.hg.1 | -2.54 | JUC21000827.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -2.62 | JUC21000820.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.12 | PSR21001579.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.17 | JUC21000824.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.29 | PSR21001580.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.3 | PSR21001584.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.71 | PSR21001575.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.71 | PSR21001578.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -3.95 | PSR21001583.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -4.78 | PSR21001572.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -5.03 | PSR21001577.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -7.93 | JUC21000812.hg.1 | KCNJ15 |
| TC21000167.hg.1 | -10.03 | JUC21000822.hg.1 | KCNJ15 |
| TC21000213.hg.1 | -2.07 | PSR21002280.hg.1 | PDXK |
| TC21000213.hg.1 | -2.19 | PSR21002282.hg.1 | PDXK |
| TC21000213.hg.1 | -2.23 | PSR21002283.hg.1 | PDXK |
| TC21000213.hg.1 | -2.25 | PSR21002278.hg.1 | PDXK |
| TC21000213.hg.1 | -2.51 | PSR21002300.hg.1 | PDXK |
| TC21000213.hg.1 | -2.59 | PSR21002288.hg.1 | PDXK |
| TC21000213.hg.1 | -2.84 | PSR21002311.hg.1 | PDXK |
| TC21000213.hg.1 | -3.32 | JUC21001219.hg.1 | PDXK |
| TC21000216.hg.1 | -2.07 | JUC21001316.hg.1 | TRAPPC10 |
| TC21000216.hg.1 | -2.08 | PSR21002472.hg.1 | TRAPPC10 |
| TC21000216.hg.1 | -2.21 | JUC21001323.hg.1 | TRAPPC10 |
| TC21000216.hg.1 | -2.48 | JUC21001300.hg.1 | TRAPPC10 |
| TC21000216.hg.1 | -2.51 | JUC21001292.hg.1 | TRAPPC10 |
| TC21000216.hg.1 | -3.09 | JUC21001311.hg.1 | TRAPPC10 |
| TC01001686.hg.1 | -2.08 | PSR01026184.hg.1 | PRELP |
| TC01001686.hg.1 | -2.31 | PSR01026183.hg.1 | PRELP |
| TC01001686.hg.1 | -2.59 | JUC01014024.hg.1 | PRELP |
| TC02002008.hg.1 | -2.08 | PSR02032291.hg.1 | GCFC2 |
| TC02002008.hg.1 | -2.17 | JUC02016705.hg.1 | GCFC2 |
| TC02002545.hg.1 | -2.08 | JUC02021339.hg.1 | ATF2 |
| TC02002545.hg.1 | -2.1 | JUC02021336.hg.1 | ATF2 |
| TC02002545.hg.1 | -2.26 | PSR02040482.hg.1 | ATF2 |
| TC02002545.hg.1 | -2.49 | JUC02021352.hg.1 | ATF2 |
| TC02002619.hg.1 | -2.08 | PSR02041966.hg.1 | HIBCH |
| TC02002619.hg.1 | -2.21 | JUC02021874.hg.1 | HIBCH |
| TC03000461.hg.1 | -2.08 | JUC03004487.hg.1 | CHMP2B |
| TC03000461.hg.1 | -2.33 | PSR03009024.hg.1 | CHMP2B |
| TC03000461.hg.1 | -2.82 | JUC03004485.hg.1 | CHMP2B |
| TC03000461.hg.1 | -3.3 | JUC03004489.hg.1 | CHMP2B |
| TC05003399.hg.1 | -2.08 | JUC05019175.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.1 | PSR05007424.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.23 | JUC05019177.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.33 | PSR05007436.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.43 | PSR05007446.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.68 | PSR05007426.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.74 | PSR05007438.hg.1 | SRP19 |
| TC05003399.hg.1 | -2.86 | PSR05007437.hg.1 | SRP19 |
| TC05003399.hg.1 | -3.06 | PSR05007417.hg.1 | SRP19 |
| TC05003399.hg.1 | -3.28 | PSR05007442.hg.1 | SRP19 |
| TC05003399.hg.1 | -3.29 | JUC05019167.hg.1 | SRP19 |
| TC05003399.hg.1 | -3.32 | PSR05007443.hg.1 | SRP19 |
| TC06000060.hg.1 | -2.08 | PSR06000562.hg.1 | DSP |
| TC06000060.hg.1 | -3.26 | JUC06000267.hg.1 | DSP |
| TC06000595.hg.1 | -2.08 | PSR06006905.hg.1 | PTK7 |
| TC06000595.hg.1 | -2.08 | PSR06006907.hg.1 | PTK7 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC06000595.hg.1 | -2.08 | PSR06006942.hg.1 | PTK7 |
| TC06000595.hg.1 | -2.2 | PSR06006917.hg.1 | PTK7 |
| TC06000595.hg.1 | -2.47 | JUC06002993.hg.1 | PTK7 |
| TC06000595.hg.1 | -2.63 | JUC06003004.hg.1 | PTK7 |
| TC06000595.hg.1 | -3.04 | JUC06003000.hg.1 | PTK7 |
| TC07000638.hg.1 | -2.08 | PSR07009932.hg.1 | LOC1001342 |
| TC07000638.hg.1 | -2.15 | JUC07004597.hg.1 | LOC1001342 |
| TC07000638.hg.1 | -2.29 | PSR07009934.hg.1 | LOC1001342 |
| TC07001731.hg.1 | -2.08 | PSR07026840.hg.1 | SRPK2 |
| TC07001731.hg.1 | -2.1 | JUC07013165.hg.1 | SRPK2 |
| TC0X000992.hg.1 | -2.08 | PSR0X013151.hg.1 | SLC9A7 |
| TC0X000992.hg.1 | -2.08 | JUC0X006629.hg.1 | SLC9A7 |
| TC0X000992.hg.1 | -2.21 | PSR0X013152.hg.1 | SLC9A7 |
| TC0X000992.hg.1 | -3.38 | JUC0X006618.hg.1 | SLC9A7 |
| TC11002366.hg.1 | -2.08 | JUC11015200.hg.1 | MCAM |
| TC11002366.hg.1 | -2.09 | PSR11028506.hg.1 | MCAM |
| TC11002366.hg.1 | -2.17 | PSR11028505.hg.1 | MCAM |
| TC11002366.hg.1 | -2.33 | PSR11028518.hg.1 | MCAM |
| TC11002366.hg.1 | -2.35 | PSR11028497.hg.1 | MCAM |
| TC11002366.hg.1 | -2.78 | PSR11028521.hg.1 | MCAM |
| TC11002366.hg.1 | -2.99 | PSR11028504.hg.1 | MCAM |
| TC11002366.hg.1 | -3.02 | PSR11028514.hg.1 | MCAM |
| TC11002366.hg.1 | -3.22 | JUC11015198.hg.1 | MCAM |
| TC11002366.hg.1 | -3.43 | JUC11015197.hg.1 | MCAM |
| TC11002366.hg.1 | -5.04 | PSR11028520.hg.1 | MCAM |
| TC11002366.hg.1 | -8.88 | JUC11015209.hg.1 | MCAM |
| TC13000145.hg.1 | -2.08 | PSR13001684.hg.1 | NAA16 |
| TC13000145.hg.1 | -2.12 | JUC13001024.hg.1 | NAA16 |
| TC13000145.hg.1 | -2.15 | JUC13001032.hg.1 | NAA16 |
| TC13000145.hg.1 | -2.16 | JUC13001047.hg.1 | NAA16 |
| TC13000145.hg.1 | -2.7 | PSR13001691.hg.1 | NAA16 |
| TC14001119.hg.1 | -2.08 | PSR14012638.hg.1 | CDKL1 |
| TC14001119.hg.1 | -2.13 | PSR14012633.hg.1 | CDKL1 |
| TC14001119.hg.1 | -2.32 | PSR14012647.hg.1 | CDKL1 |
| TC14001119.hg.1 | -2.32 | JUC14006348.hg.1 | CDKL1 |
| TC14001119.hg.1 | -2.57 | PSR14012645.hg.1 | CDKL1 |
| TC14001119.hg.1 | -2.88 | PSR14012632.hg.1 | CDKL1 |
| TC14001119.hg.1 | -3.12 | JUC14006356.hg.1 | CDKL1 |
| TC16000385.hg.1 | -2.08 | PSR16005729.hg.1 | |
| TC16000385.hg.1 | -3.01 | JUC16003162.hg.1 | |
| TC17000495.hg.1 | -2.08 | JUC17003380.hg.1 | CDC6 |
| TC17000495.hg.1 | -2.25 | PSR17005965.hg.1 | CDC6 |
| TC17000988.hg.1 | -2.08 | PSR17013220.hg.1 | SMG6 |
| TC17000988.hg.1 | -2.16 | JUC17007545.hg.1 | SMG6 |
| TC17000988.hg.1 | -2.43 | PSR17013224.hg.1 | SMG6 |
| TC17000988.hg.1 | -3.32 | JUC17007557.hg.1 | SMG6 |
| TC17001550.hg.1 | -2.08 | JUC17011583.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.15 | PSR17020710.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.18 | PSR17020696.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.21 | PSR17020733.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.29 | PSR17020750.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.33 | JUC17011586.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.52 | PSR17020736.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.55 | JUC17011589.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.72 | JUC17011584.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.82 | JUC17011611.hg.1 | AARSD1, PTG |
| TC17001550.hg.1 | -2.93 | PSR17020692.hg.1 | AARSD1, PTG |
| TC17001913.hg.1 | -2.08 | PSR17025912.hg.1 | TMC6 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC17001913.hg.1 | -2.09 | PSR17025927.hg.1 | TMC6 |
| TC17001913.hg.1 | -2.12 | JUC17014556.hg.1 | TMC6 |
| TC18000071.hg.1 | -2.08 | JUC18000507.hg.1 | C18orf1 |
| TC18000071.hg.1 | -2.46 | PSR18000824.hg.1 | C18orf1 |
| TC18000071.hg.1 | -2.78 | PSR18000827.hg.1 | C18orf1 |
| TC18000071.hg.1 | -2.84 | PSR18000829.hg.1 | C18orf1 |
| TC18000071.hg.1 | -3.15 | PSR18000820.hg.1 | C18orf1 |
| TC18000071.hg.1 | -3.86 | JUC18000504.hg.1 | C18orf1 |
| TC18000071.hg.1 | -3.96 | JUC18000503.hg.1 | C18orf1 |
| TC18000071.hg.1 | -4.5 | PSR18000825.hg.1 | C18orf1 |
| TC18000143.hg.1 | -2.08 | PSR18001623.hg.1 | ZNF397 |
| TC18000143.hg.1 | -2.14 | JUC18001126.hg.1 | ZNF397 |
| TC18000143.hg.1 | -3.07 | JUC18001124.hg.1 | ZNF397 |
| TC19000132.hg.1 | -2.08 | JUC19001247.hg.1 | STXBP2 |
| TC19000132.hg.1 | -2.51 | JUC19001230.hg.1 | STXBP2 |
| TC19000132.hg.1 | -2.76 | PSR19002055.hg.1 | STXBP2 |
| TC19000132.hg.1 | -3.78 | JUC19001245.hg.1 | STXBP2 |
| TC19000132.hg.1 | -4.25 | PSR19002054.hg.1 | STXBP2 |
| TC19000132.hg.1 | -4.65 | JUC19001255.hg.1 | STXBP2 |
| TC21000095.hg.1 | -2.08 | JUC21000344.hg.1 | C21orf7 |
| TC21000095.hg.1 | -2.16 | JUC21000351.hg.1 | C21orf7 |
| TC21000095.hg.1 | -2.2 | JUC21000352.hg.1 | C21orf7 |
| TC21000095.hg.1 | -2.21 | PSR21000576.hg.1 | C21orf7 |
| TC22000838.hg.1 | -2.08 | PSR22014134.hg.1 | NAGA |
| TC22000838.hg.1 | -2.81 | JUC22005836.hg.1 | NAGA |
| TC01001102.hg.1 | -2.09 | PSR01017418.hg.1 | |
| TC01001102.hg.1 | -2.74 | JUC01008896.hg.1 | |
| TC01001516.hg.1 | -2.09 | PSR01023434.hg.1 | DARS2 |
| TC01001516.hg.1 | -2.33 | JUC01012385.hg.1 | DARS2 |
| TC01001516.hg.1 | -2.48 | JUC01012382.hg.1 | DARS2 |
| TC01002261.hg.1 | -2.09 | PSR01034499.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -2.1 | PSR01034495.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -2.15 | PSR01034503.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -2.15 | JUC01018472.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -2.27 | PSR01034507.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -2.65 | JUC01018475.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -2.71 | PSR01034502.hg.1 | RSG1, C1orf1 |
| TC01002261.hg.1 | -3.94 | JUC01018471.hg.1 | RSG1, C1orf1 |
| TC05000086.hg.1 | -2.09 | PSR05001043.hg.1 | FAM105B |
| TC05000086.hg.1 | -2.81 | JUC05000578.hg.1 | FAM105B |
| TC05000148.hg.1 | -2.09 | PSR05001526.hg.1 | TARS |
| TC05000148.hg.1 | -2.1 | JUC05000856.hg.1 | TARS |
| TC05000148.hg.1 | -2.33 | PSR05001517.hg.1 | TARS |
| TC05000148.hg.1 | -2.86 | JUC05000833.hg.1 | TARS |
| TC08000078.hg.1 | -2.09 | JUC08000424.hg.1 | C8orf74 |
| TC08000078.hg.1 | -2.34 | PSR08000730.hg.1 | C8orf74 |
| TC08000078.hg.1 | -2.42 | JUC08000430.hg.1 | C8orf74 |
| TC08000078.hg.1 | -2.78 | PSR08000726.hg.1 | C8orf74 |
| TC10002942.hg.1 | -2.09 | PSR10006960.hg.1 | FAS |
| TC10002942.hg.1 | -2.23 | PSR10006980.hg.1 | FAS |
| TC10002942.hg.1 | -3.92 | JUC10017247.hg.1 | FAS |
| TC11000690.hg.1 | -2.09 | JUC11004573.hg.1 | CARNS1 |
| TC11000690.hg.1 | -2.14 | PSR11008948.hg.1 | CARNS1 |
| TC11001968.hg.1 | -2.09 | PSR11023602.hg.1 | LOC1005055 |
| TC11001968.hg.1 | -2.16 | JUC11012455.hg.1 | LOC1005055 |
| TC12000976.hg.1 | -2.09 | PSR12012813.hg.1 | DENR |
| TC12000976.hg.1 | -2.19 | JUC12007045.hg.1 | DENR |
| TC12000976.hg.1 | -2.49 | JUC12007041.hg.1 | DENR |

| | | | |
|-----------------|-------|------------------|---------|
| TC14000922.hg.1 | -2.09 | JUC14005119.hg.1 | METTTL3 |
| TC14000922.hg.1 | -2.91 | PSR14010078.hg.1 | METTTL3 |
| TC15000581.hg.1 | -2.09 | PSR15004652.hg.1 | RAB8B |
| TC15000581.hg.1 | -2.18 | JUC15002267.hg.1 | RAB8B |
| TC17001538.hg.1 | -2.09 | PSR17020560.hg.1 | PLEKHH3 |
| TC17001538.hg.1 | -2.34 | JUC17011509.hg.1 | PLEKHH3 |
| TC19000886.hg.1 | -2.09 | JUC19006953.hg.1 | NCR1 |
| TC19000886.hg.1 | -2.19 | PSR19012276.hg.1 | NCR1 |
| TC19000886.hg.1 | -2.47 | JUC19006952.hg.1 | NCR1 |
| TC19000886.hg.1 | -2.57 | JUC19006947.hg.1 | NCR1 |
| TC19001446.hg.1 | -2.09 | PSR19019549.hg.1 | SBSN |
| TC19001446.hg.1 | -2.23 | PSR19019550.hg.1 | SBSN |
| TC19001446.hg.1 | -2.71 | JUC19011320.hg.1 | SBSN |
| TC19001446.hg.1 | -2.82 | PSR19019553.hg.1 | SBSN |
| TC01003002.hg.1 | -2.1 | PSR01046673.hg.1 | |
| TC01003002.hg.1 | -2.14 | PSR01046672.hg.1 | |
| TC01003002.hg.1 | -2.26 | JUC01025049.hg.1 | |
| TC01003002.hg.1 | -3.13 | JUC01025048.hg.1 | |
| TC03001372.hg.1 | -2.1 | PSR03023686.hg.1 | MAP4 |
| TC03001372.hg.1 | -2.25 | JUC03011822.hg.1 | MAP4 |
| TC04000392.hg.1 | -2.1 | PSR04005386.hg.1 | RUFY3 |
| TC04000392.hg.1 | -2.23 | PSR04005382.hg.1 | RUFY3 |
| TC04000392.hg.1 | -2.66 | JUC04002680.hg.1 | RUFY3 |
| TC05001344.hg.1 | -2.1 | PSR05018864.hg.1 | |
| TC05001344.hg.1 | -2.6 | JUC05009697.hg.1 | |
| TC05001344.hg.1 | -2.98 | JUC05009695.hg.1 | |
| TC06000016.hg.1 | -2.1 | PSR06000093.hg.1 | |
| TC06000016.hg.1 | -2.46 | JUC06000044.hg.1 | |
| TC06000830.hg.1 | -2.1 | JUC06004597.hg.1 | TSTD3 |
| TC06000830.hg.1 | -2.12 | PSR06009856.hg.1 | TSTD3 |
| TC06001751.hg.1 | -2.1 | JUC06009999.hg.1 | XPO5 |
| TC06001751.hg.1 | -2.33 | JUC06009993.hg.1 | XPO5 |
| TC06001751.hg.1 | -2.56 | PSR06021041.hg.1 | XPO5 |
| TC06002194.hg.1 | -2.1 | PSR06027498.hg.1 | EPM2A |
| TC06002194.hg.1 | -2.3 | PSR06027473.hg.1 | EPM2A |
| TC06002194.hg.1 | -3.14 | JUC06013693.hg.1 | EPM2A |
| TC07001355.hg.1 | -2.1 | PSR07021216.hg.1 | IGFBP3 |
| TC07001355.hg.1 | -2.17 | PSR07021176.hg.1 | IGFBP3 |
| TC07001355.hg.1 | -2.26 | PSR07021166.hg.1 | IGFBP3 |
| TC07001355.hg.1 | -2.31 | JUC07010355.hg.1 | IGFBP3 |
| TC07001355.hg.1 | -2.36 | PSR07021175.hg.1 | IGFBP3 |
| TC07001355.hg.1 | -2.43 | PSR07021184.hg.1 | IGFBP3 |
| TC07001355.hg.1 | -2.85 | JUC07010344.hg.1 | IGFBP3 |
| TC07002040.hg.1 | -2.1 | PSR07031250.hg.1 | RHEB |
| TC07002040.hg.1 | -2.93 | JUC07015488.hg.1 | RHEB |
| TC07003339.hg.1 | -2.1 | PSR07011404.hg.1 | CAV1 |
| TC07003339.hg.1 | -2.12 | JUC07021137.hg.1 | CAV1 |
| TC07003339.hg.1 | -2.25 | PSR07011403.hg.1 | CAV1 |
| TC08002624.hg.1 | -2.1 | PSR08023464.hg.1 | COMMD5 |
| TC08002624.hg.1 | -2.36 | JUC08015365.hg.1 | COMMD5 |
| TC09000347.hg.1 | -2.1 | JUC09001989.hg.1 | PCSK5 |
| TC09000347.hg.1 | -2.23 | PSR09003676.hg.1 | PCSK5 |
| TC09000347.hg.1 | -2.53 | JUC09001983.hg.1 | PCSK5 |
| TC09000347.hg.1 | -2.54 | PSR09003711.hg.1 | PCSK5 |
| TC09000347.hg.1 | -3.23 | PSR09003709.hg.1 | PCSK5 |
| TC09000347.hg.1 | -3.38 | PSR09003705.hg.1 | PCSK5 |
| TC09000347.hg.1 | -3.52 | PSR09003684.hg.1 | PCSK5 |
| TC09000347.hg.1 | -3.6 | PSR09003693.hg.1 | PCSK5 |

| | | | |
|-----------------|--------|------------------|--------------|
| TC09000347.hg.1 | -4.03 | JUC09001959.hg.1 | PCSK5 |
| TC09000347.hg.1 | -4.08 | PSR09003708.hg.1 | PCSK5 |
| TC09000347.hg.1 | -4.13 | PSR09003702.hg.1 | PCSK5 |
| TC09000347.hg.1 | -4.16 | PSR09003698.hg.1 | PCSK5 |
| TC09000347.hg.1 | -4.28 | PSR09003694.hg.1 | PCSK5 |
| TC09000347.hg.1 | -4.93 | PSR09003701.hg.1 | PCSK5 |
| TC09000347.hg.1 | -5.3 | PSR09003697.hg.1 | PCSK5 |
| TC09000347.hg.1 | -5.36 | PSR09003699.hg.1 | PCSK5 |
| TC09000347.hg.1 | -5.6 | PSR09003706.hg.1 | PCSK5 |
| TC09000347.hg.1 | -5.75 | JUC09001956.hg.1 | PCSK5 |
| TC09000347.hg.1 | -6.28 | JUC09001985.hg.1 | PCSK5 |
| TC09000347.hg.1 | -10.06 | JUC09001958.hg.1 | PCSK5 |
| TC09000347.hg.1 | -10.37 | JUC09001960.hg.1 | PCSK5 |
| TC10000102.hg.1 | -2.1 | JUC10000611.hg.1 | PRPF18 |
| TC10000102.hg.1 | -2.58 | PSR10001145.hg.1 | PRPF18 |
| TC10000102.hg.1 | -2.74 | JUC10000627.hg.1 | PRPF18 |
| TC10000575.hg.1 | -2.1 | JUC10003613.hg.1 | C10orf57 |
| TC10000575.hg.1 | -2.22 | PSR10006246.hg.1 | C10orf57 |
| TC10001626.hg.1 | -2.1 | PSR10021246.hg.1 | NT5C2 |
| TC10001626.hg.1 | -2.17 | PSR10021225.hg.1 | NT5C2 |
| TC10001626.hg.1 | -2.22 | PSR10021228.hg.1 | NT5C2 |
| TC10001626.hg.1 | -2.27 | PSR10021256.hg.1 | NT5C2 |
| TC10001626.hg.1 | -2.54 | JUC10012290.hg.1 | NT5C2 |
| TC10001626.hg.1 | -3.05 | PSR10021238.hg.1 | NT5C2 |
| TC10001626.hg.1 | -3.36 | JUC10012276.hg.1 | NT5C2 |
| TC10001626.hg.1 | -3.83 | JUC10012273.hg.1 | NT5C2 |
| TC11000088.hg.1 | -2.1 | PSR11001510.hg.1 | STIM1, MIR40 |
| TC11000088.hg.1 | -2.26 | JUC11000747.hg.1 | STIM1, MIR40 |
| TC12000925.hg.1 | -2.1 | JUC12006613.hg.1 | RFC5 |
| TC12000925.hg.1 | -4.18 | PSR12012001.hg.1 | RFC5 |
| TC12001539.hg.1 | -2.1 | PSR12020221.hg.1 | KRT8 |
| TC12001539.hg.1 | -2.11 | PSR12020233.hg.1 | KRT8 |
| TC12001539.hg.1 | -2.15 | PSR12020231.hg.1 | KRT8 |
| TC12001539.hg.1 | -2.25 | JUC12011247.hg.1 | KRT8 |
| TC16000520.hg.1 | -2.1 | PSR16007266.hg.1 | CMTM3 |
| TC16000520.hg.1 | -2.92 | JUC16004104.hg.1 | CMTM3 |
| TC17000600.hg.1 | -2.1 | JUC17004145.hg.1 | NSF, NSFP1, |
| TC17000600.hg.1 | -2.24 | PSR17007354.hg.1 | NSF, NSFP1, |
| TC17000600.hg.1 | -2.42 | JUC17004165.hg.1 | NSF, NSFP1, |
| TC17002872.hg.1 | -2.1 | PSR17003894.hg.1 | SARM1 |
| TC17002872.hg.1 | -2.13 | PSR17003893.hg.1 | SARM1 |
| TC17002872.hg.1 | -2.42 | JUC17018635.hg.1 | SARM1 |
| TC17002872.hg.1 | -6.56 | JUC17018630.hg.1 | SARM1 |
| TC18000264.hg.1 | -2.1 | JUC18002114.hg.1 | CTDP1 |
| TC18000264.hg.1 | -3.17 | PSR18003124.hg.1 | CTDP1 |
| TC20000696.hg.1 | -2.1 | PSR20009595.hg.1 | |
| TC20000696.hg.1 | -2.11 | JUC20005022.hg.1 | |
| TC01000381.hg.1 | -2.11 | JUC01003083.hg.1 | RCC1, SNHG |
| TC01000381.hg.1 | -2.35 | JUC01003063.hg.1 | RCC1, SNHG |
| TC01000381.hg.1 | -2.58 | PSR01005895.hg.1 | RCC1, SNHG |
| TC01000381.hg.1 | -3.23 | JUC01003077.hg.1 | RCC1, SNHG |
| TC01000381.hg.1 | -3.97 | PSR01005893.hg.1 | RCC1, SNHG |
| TC01002057.hg.1 | -2.11 | JUC01016996.hg.1 | LOC1005080 |
| TC01002057.hg.1 | -2.23 | PSR01031296.hg.1 | LOC1005080 |
| TC03000407.hg.1 | -2.11 | PSR03008619.hg.1 | KBTBD8 |
| TC03000407.hg.1 | -2.68 | JUC03004302.hg.1 | KBTBD8 |
| TC03000407.hg.1 | -4.06 | PSR03008620.hg.1 | KBTBD8 |
| TC03000507.hg.1 | -2.11 | JUC03004766.hg.1 | NIT2 |

| | | | |
|-----------------|-------|------------------|--------------|
| TC03000507.hg.1 | -2.2 | PSR03009555.hg.1 | NIT2 |
| TC04001634.hg.1 | -2.11 | PSR04022852.hg.1 | LRBA |
| TC04001634.hg.1 | -2.17 | PSR04022801.hg.1 | LRBA |
| TC04001634.hg.1 | -2.27 | JUC04012030.hg.1 | LRBA |
| TC04001634.hg.1 | -2.36 | JUC04012079.hg.1 | LRBA |
| TC04001634.hg.1 | -2.45 | PSR04022821.hg.1 | LRBA |
| TC04001634.hg.1 | -4.74 | JUC04012021.hg.1 | LRBA |
| TC05002020.hg.1 | -2.11 | JUC05014314.hg.1 | NUDCD2 |
| TC05002020.hg.1 | -2.23 | PSR05028048.hg.1 | NUDCD2 |
| TC05002020.hg.1 | -2.23 | JUC05014316.hg.1 | NUDCD2 |
| TC05002020.hg.1 | -2.79 | PSR05028056.hg.1 | NUDCD2 |
| TC05002105.hg.1 | -2.11 | PSR05029031.hg.1 | F12 |
| TC05002105.hg.1 | -2.31 | JUC05014772.hg.1 | F12 |
| TC05002105.hg.1 | -6.72 | JUC05014775.hg.1 | F12 |
| TC06000574.hg.1 | -2.11 | JUC06002752.hg.1 | PRICKLE4, T |
| TC06000574.hg.1 | -2.19 | PSR06006469.hg.1 | PRICKLE4, T |
| TC06000574.hg.1 | -2.53 | JUC06002743.hg.1 | PRICKLE4, T |
| TC07000208.hg.1 | -2.11 | PSR07003307.hg.1 | ZNRF2P1 |
| TC07000208.hg.1 | -2.23 | PSR07003306.hg.1 | ZNRF2P1 |
| TC07000208.hg.1 | -2.72 | JUC07001554.hg.1 | ZNRF2P1 |
| TC07000844.hg.1 | -2.11 | PSR07013377.hg.1 | C7orf73, LOC |
| TC07000844.hg.1 | -2.19 | PSR07013373.hg.1 | C7orf73, LOC |
| TC07000844.hg.1 | -2.28 | JUC07006397.hg.1 | C7orf73, LOC |
| TC07001618.hg.1 | -2.11 | PSR07024641.hg.1 | PDK4 |
| TC07001618.hg.1 | -2.57 | JUC07012247.hg.1 | PDK4 |
| TC07001618.hg.1 | -2.67 | PSR07024637.hg.1 | PDK4 |
| TC07001618.hg.1 | -3.62 | PSR07024646.hg.1 | PDK4 |
| TC07001618.hg.1 | -4.78 | PSR07024628.hg.1 | PDK4 |
| TC08000403.hg.1 | -2.11 | PSR08005653.hg.1 | SDCBP |
| TC08000403.hg.1 | -3.82 | JUC08002799.hg.1 | SDCBP |
| TC08001108.hg.1 | -2.11 | PSR08014278.hg.1 | LOC1001287 |
| TC08001108.hg.1 | -2.11 | PSR08014280.hg.1 | LOC1001287 |
| TC08001108.hg.1 | -4.13 | JUC08007304.hg.1 | LOC1001287 |
| TC08002595.hg.1 | -2.11 | PSR08000968.hg.1 | FAM66A |
| TC08002595.hg.1 | -2.27 | JUC08014936.hg.1 | FAM66A |
| TC08002595.hg.1 | -2.51 | PSR08000972.hg.1 | FAM66A |
| TC08002595.hg.1 | -3.07 | PSR08000967.hg.1 | FAM66A |
| TC08002595.hg.1 | -3.07 | PSR08000971.hg.1 | FAM66A |
| TC08002595.hg.1 | -3.42 | PSR08000970.hg.1 | FAM66A |
| TC08002595.hg.1 | -3.42 | JUC08014934.hg.1 | FAM66A |
| TC08002595.hg.1 | -8.9 | JUC08014937.hg.1 | FAM66A |
| TC09000614.hg.1 | -2.11 | PSR09007101.hg.1 | PTGS1 |
| TC09000614.hg.1 | -2.52 | PSR09007091.hg.1 | PTGS1 |
| TC09000614.hg.1 | -2.57 | PSR09007093.hg.1 | PTGS1 |
| TC09000614.hg.1 | -2.6 | JUC09003966.hg.1 | PTGS1 |
| TC09000614.hg.1 | -2.61 | PSR09007088.hg.1 | PTGS1 |
| TC09000614.hg.1 | -2.95 | PSR09007094.hg.1 | PTGS1 |
| TC09000614.hg.1 | -3.18 | JUC09003967.hg.1 | PTGS1 |
| TC09000614.hg.1 | -3.53 | PSR09007095.hg.1 | PTGS1 |
| TC09000614.hg.1 | -3.58 | PSR09007087.hg.1 | PTGS1 |
| TC09000614.hg.1 | -4.13 | JUC09003958.hg.1 | PTGS1 |
| TC09000614.hg.1 | -4.4 | PSR09007086.hg.1 | PTGS1 |
| TC0X002339.hg.1 | -2.11 | PSR0X018733.hg.1 | CT45A5, CT4 |
| TC0X002339.hg.1 | -2.3 | JUC0X013259.hg.1 | CT45A5, CT4 |
| TC12000591.hg.1 | -2.11 | PSR12007797.hg.1 | IRAK3 |
| TC12000591.hg.1 | -2.34 | PSR12007786.hg.1 | IRAK3 |
| TC12000591.hg.1 | -2.35 | JUC12004110.hg.1 | IRAK3 |
| TC12000591.hg.1 | -2.46 | JUC12004105.hg.1 | IRAK3 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12000591.hg.1 | -2.5 | PSR12007787.hg.1 | IRAK3 |
| TC12000591.hg.1 | -2.72 | PSR12007781.hg.1 | IRAK3 |
| TC12000591.hg.1 | -2.84 | PSR12007798.hg.1 | IRAK3 |
| TC12000591.hg.1 | -3.06 | JUC12004098.hg.1 | IRAK3 |
| TC14002324.hg.1 | -2.11 | JUC14012117.hg.1 | GPR135 |
| TC14002324.hg.1 | -2.15 | PSR14013461.hg.1 | GPR135 |
| TC14002324.hg.1 | -2.65 | PSR14013460.hg.1 | GPR135 |
| TC14002324.hg.1 | -5.67 | JUC14012116.hg.1 | GPR135 |
| TC16000737.hg.1 | -2.11 | JUC16005968.hg.1 | CCDC78 |
| TC16000737.hg.1 | -2.14 | PSR16010724.hg.1 | CCDC78 |
| TC16000755.hg.1 | -2.11 | JUC16006184.hg.1 | IFT140 |
| TC16000755.hg.1 | -2.36 | PSR16011069.hg.1 | IFT140 |
| TC16000755.hg.1 | -2.43 | JUC16006175.hg.1 | IFT140 |
| TC01000384.hg.1 | -2.12 | JUC01003095.hg.1 | TRNAU1AP |
| TC01000384.hg.1 | -2.46 | PSR01005966.hg.1 | TRNAU1AP |
| TC01002834.hg.1 | -2.12 | JUC01023721.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.14 | PSR01044187.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.27 | JUC01023722.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.35 | PSR01044185.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.35 | JUC01023732.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.41 | JUC01023737.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.43 | JUC01023736.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.62 | PSR01044203.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.63 | PSR01044157.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.66 | PSR01044156.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.71 | JUC01023727.hg.1 | ODF2L |
| TC01002834.hg.1 | -2.79 | JUC01023740.hg.1 | ODF2L |
| TC01002834.hg.1 | -3.33 | PSR01044194.hg.1 | ODF2L |
| TC01003551.hg.1 | -2.12 | PSR01055054.hg.1 | RFWD2 |
| TC01003551.hg.1 | -2.33 | JUC01028712.hg.1 | RFWD2 |
| TC02001524.hg.1 | -2.12 | PSR02024819.hg.1 | ADI1 |
| TC02001524.hg.1 | -3.08 | JUC02012867.hg.1 | ADI1 |
| TC05001694.hg.1 | -2.12 | PSR05023003.hg.1 | ATG12 |
| TC05001694.hg.1 | -2.31 | JUC05011886.hg.1 | ATG12 |
| TC05001694.hg.1 | -3 | JUC05011887.hg.1 | ATG12 |
| TC07000034.hg.1 | -2.12 | PSR07000447.hg.1 | LFNG, MIR46 |
| TC07000034.hg.1 | -2.16 | JUC07000151.hg.1 | LFNG, MIR46 |
| TC07000405.hg.1 | -2.12 | PSR07005480.hg.1 | TPST1 |
| TC07000405.hg.1 | -2.41 | JUC07002622.hg.1 | TPST1 |
| TC07000405.hg.1 | -2.45 | PSR07005461.hg.1 | TPST1 |
| TC08000167.hg.1 | -2.12 | JUC08001016.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.23 | JUC08001014.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.28 | PSR08001886.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.28 | PSR08001898.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.31 | JUC08001021.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.38 | JUC08001019.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.53 | PSR08001881.hg.1 | BMP1 |
| TC08000167.hg.1 | -2.64 | PSR08001889.hg.1 | BMP1 |
| TC08000167.hg.1 | -3.68 | PSR08001880.hg.1 | BMP1 |
| TC0X000885.hg.1 | -2.12 | PSR0X011828.hg.1 | CTPS2 |
| TC0X000885.hg.1 | -2.33 | JUC0X005804.hg.1 | CTPS2 |
| TC10000438.hg.1 | -2.12 | JUC10003003.hg.1 | UNC5B |
| TC10000438.hg.1 | -2.13 | PSR10005123.hg.1 | UNC5B |
| TC10000438.hg.1 | -2.38 | PSR10005122.hg.1 | UNC5B |
| TC10000438.hg.1 | -2.43 | JUC10003005.hg.1 | UNC5B |
| TC11000015.hg.1 | -2.12 | PSR11000195.hg.1 | B4GALNT4 |
| TC11000015.hg.1 | -3.31 | PSR11000196.hg.1 | B4GALNT4 |
| TC11000015.hg.1 | -4.39 | JUC11000094.hg.1 | B4GALNT4 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC16000436.hg.1 | -2.12 | PSR16006012.hg.1 | HEATR3 |
| TC16000436.hg.1 | -2.15 | PSR16006018.hg.1 | HEATR3 |
| TC16000436.hg.1 | -2.38 | PSR16006019.hg.1 | HEATR3 |
| TC16000436.hg.1 | -2.58 | JUC16003307.hg.1 | HEATR3 |
| TC20000850.hg.1 | -2.12 | JUC20006039.hg.1 | CHD6 |
| TC20000850.hg.1 | -2.14 | PSR20011653.hg.1 | CHD6 |
| TC20000850.hg.1 | -2.19 | JUC20006026.hg.1 | CHD6 |
| TC20000850.hg.1 | -2.38 | JUC20006031.hg.1 | CHD6 |
| TC01000511.hg.1 | -2.13 | PSR01007981.hg.1 | ZNF643 |
| TC01000511.hg.1 | -4.94 | JUC01004160.hg.1 | ZNF643 |
| TC02000245.hg.1 | -2.13 | PSR02003630.hg.1 | GALM |
| TC02000245.hg.1 | -2.13 | JUC02001908.hg.1 | GALM |
| TC02000245.hg.1 | -2.46 | JUC02001909.hg.1 | GALM |
| TC02000245.hg.1 | -2.58 | PSR02003642.hg.1 | GALM |
| TC02000245.hg.1 | -2.69 | JUC02001901.hg.1 | GALM |
| TC02000245.hg.1 | -3.12 | JUC02001907.hg.1 | GALM |
| TC02000245.hg.1 | -3.24 | PSR02003625.hg.1 | GALM |
| TC02000245.hg.1 | -3.33 | PSR02003637.hg.1 | GALM |
| TC02000245.hg.1 | -3.35 | PSR02003645.hg.1 | GALM |
| TC02000245.hg.1 | -3.63 | PSR02003643.hg.1 | GALM |
| TC02000245.hg.1 | -3.79 | PSR02003632.hg.1 | GALM |
| TC02000802.hg.1 | -2.13 | PSR02012387.hg.1 | CCDC74B-AS |
| TC02000802.hg.1 | -2.35 | JUC02006586.hg.1 | CCDC74B-AS |
| TC04000182.hg.1 | -2.13 | JUC04001376.hg.1 | TBC1D19 |
| TC04000182.hg.1 | -2.54 | PSR04002945.hg.1 | TBC1D19 |
| TC04000182.hg.1 | -3.63 | PSR04002920.hg.1 | TBC1D19 |
| TC05000316.hg.1 | -2.13 | PSR05004238.hg.1 | SERF1B, SEF |
| TC05000316.hg.1 | -2.6 | JUC05002284.hg.1 | SERF1B, SEF |
| TC05001933.hg.1 | -2.13 | PSR05026730.hg.1 | PDGFRB |
| TC05001933.hg.1 | -2.14 | PSR05026727.hg.1 | PDGFRB |
| TC05001933.hg.1 | -2.19 | JUC05013600.hg.1 | PDGFRB |
| TC05001933.hg.1 | -2.36 | PSR05026713.hg.1 | PDGFRB |
| TC05001933.hg.1 | -2.56 | PSR05026708.hg.1 | PDGFRB |
| TC05001933.hg.1 | -2.7 | PSR05026728.hg.1 | PDGFRB |
| TC05001933.hg.1 | -2.91 | JUC05013618.hg.1 | PDGFRB |
| TC05001933.hg.1 | -3.33 | PSR05026754.hg.1 | PDGFRB |
| TC06000117.hg.1 | -2.13 | JUC06000578.hg.1 | KDM1B |
| TC06000117.hg.1 | -2.17 | PSR06001245.hg.1 | KDM1B |
| TC06000117.hg.1 | -2.41 | JUC06000598.hg.1 | KDM1B |
| TC07001701.hg.1 | -2.13 | PSR07026229.hg.1 | |
| TC07001701.hg.1 | -2.15 | PSR07026227.hg.1 | |
| TC07001701.hg.1 | -6.82 | JUC07012881.hg.1 | |
| TC08000185.hg.1 | -2.13 | JUC08001234.hg.1 | R3HCC1 |
| TC08000185.hg.1 | -2.24 | PSR08002417.hg.1 | R3HCC1 |
| TC08001130.hg.1 | -2.13 | PSR08014537.hg.1 | |
| TC08001130.hg.1 | -3.25 | JUC08007410.hg.1 | |
| TC09000491.hg.1 | -2.13 | JUC09002937.hg.1 | TMOD1 |
| TC09000491.hg.1 | -2.2 | JUC09002933.hg.1 | TMOD1 |
| TC09000491.hg.1 | -2.29 | PSR09005290.hg.1 | TMOD1 |
| TC09000491.hg.1 | -3.13 | JUC09002934.hg.1 | TMOD1 |
| TC09001408.hg.1 | -2.13 | JUC09009448.hg.1 | ANKS6 |
| TC09001408.hg.1 | -4.33 | PSR09017586.hg.1 | ANKS6 |
| TC0X001257.hg.1 | -2.13 | PSR0X016959.hg.1 | MORC4 |
| TC0X001257.hg.1 | -2.14 | JUC0X008631.hg.1 | MORC4 |
| TC0X001370.hg.1 | -2.13 | PSR0X018410.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.17 | JUC0X009429.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.18 | PSR0X018409.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.24 | JUC0X009440.hg.1 | MBNL3 |

| | | | |
|-----------------|-------|------------------|---------|
| TC0X001370.hg.1 | -2.26 | PSR0X018408.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.38 | PSR0X018435.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.51 | PSR0X018423.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.56 | JUC0X009425.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -2.62 | PSR0X018424.hg.1 | MBNL3 |
| TC0X001370.hg.1 | -3.61 | JUC0X009439.hg.1 | MBNL3 |
| TC11001049.hg.1 | -2.13 | PSR11013081.hg.1 | TAGLN |
| TC11001049.hg.1 | -2.14 | PSR11013078.hg.1 | TAGLN |
| TC11001049.hg.1 | -2.17 | PSR11013082.hg.1 | TAGLN |
| TC11001049.hg.1 | -2.51 | JUC11007005.hg.1 | TAGLN |
| TC11002074.hg.1 | -2.13 | PSR11024851.hg.1 | UCP2 |
| TC11002074.hg.1 | -2.55 | JUC11013107.hg.1 | UCP2 |
| TC13000107.hg.1 | -2.13 | PSR13001050.hg.1 | EEF1DP3 |
| TC13000107.hg.1 | -2.28 | PSR13001049.hg.1 | EEF1DP3 |
| TC13000107.hg.1 | -2.7 | PSR13001058.hg.1 | EEF1DP3 |
| TC13000107.hg.1 | -2.86 | PSR13001055.hg.1 | EEF1DP3 |
| TC13000107.hg.1 | -3.05 | JUC13000621.hg.1 | EEF1DP3 |
| TC15000442.hg.1 | -2.13 | PSR15004195.hg.1 | LIPC |
| TC15000442.hg.1 | -2.18 | JUC15002062.hg.1 | LIPC |
| TC15000442.hg.1 | -2.44 | JUC15002068.hg.1 | LIPC |
| TC15000442.hg.1 | -2.56 | PSR15004196.hg.1 | LIPC |
| TC15000442.hg.1 | -2.58 | JUC15002069.hg.1 | LIPC |
| TC15000442.hg.1 | -2.67 | PSR15004212.hg.1 | LIPC |
| TC15000442.hg.1 | -2.82 | JUC15002073.hg.1 | LIPC |
| TC15000442.hg.1 | -5.41 | JUC15002067.hg.1 | LIPC |
| TC15001563.hg.1 | -2.13 | PSR15014924.hg.1 | PARP16 |
| TC15001563.hg.1 | -2.16 | PSR15014928.hg.1 | PARP16 |
| TC15001563.hg.1 | -3.14 | JUC15008067.hg.1 | PARP16 |
| TC15001563.hg.1 | -3.32 | JUC15008068.hg.1 | PARP16 |
| TC16000089.hg.1 | -2.13 | PSR16001643.hg.1 | FLYWCH1 |
| TC16000089.hg.1 | -2.21 | JUC16000776.hg.1 | FLYWCH1 |
| TC16000089.hg.1 | -2.23 | JUC16000769.hg.1 | FLYWCH1 |
| TC16000089.hg.1 | -2.75 | PSR16001637.hg.1 | FLYWCH1 |
| TC17000777.hg.1 | -2.13 | PSR17010127.hg.1 | MILR1 |
| TC17000777.hg.1 | -3.78 | JUC17005596.hg.1 | MILR1 |
| TC19000386.hg.1 | -2.13 | JUC19003057.hg.1 | ZNF85 |
| TC19000386.hg.1 | -2.35 | PSR19005187.hg.1 | ZNF85 |
| TC19000386.hg.1 | -2.49 | JUC19003053.hg.1 | ZNF85 |
| TC19000386.hg.1 | -3.55 | PSR19005180.hg.1 | ZNF85 |
| TC19001677.hg.1 | -2.13 | PSR19022864.hg.1 | CARD8 |
| TC19001677.hg.1 | -2.21 | JUC19013062.hg.1 | CARD8 |
| TC19001677.hg.1 | -2.35 | PSR19022868.hg.1 | CARD8 |
| TC19001677.hg.1 | -2.42 | PSR19022884.hg.1 | CARD8 |
| TC19001677.hg.1 | -5.95 | JUC19013069.hg.1 | CARD8 |
| TC22000297.hg.1 | -2.13 | PSR22005620.hg.1 | MAFF |
| TC22000297.hg.1 | -2.58 | JUC22002065.hg.1 | MAFF |
| TC22000297.hg.1 | -3.32 | PSR22005613.hg.1 | MAFF |
| TC03000957.hg.1 | -2.14 | PSR03016561.hg.1 | USP13 |
| TC03000957.hg.1 | -2.19 | JUC03008437.hg.1 | USP13 |
| TC03000957.hg.1 | -2.21 | PSR03016562.hg.1 | USP13 |
| TC03000957.hg.1 | -2.21 | JUC03008428.hg.1 | USP13 |
| TC05001527.hg.1 | -2.14 | PSR05020930.hg.1 | SERINC5 |
| TC05001527.hg.1 | -2.15 | PSR05020925.hg.1 | SERINC5 |
| TC05001527.hg.1 | -2.25 | PSR05020924.hg.1 | SERINC5 |
| TC05001527.hg.1 | -2.29 | PSR05020926.hg.1 | SERINC5 |
| TC05001527.hg.1 | -2.33 | JUC05010806.hg.1 | SERINC5 |
| TC05001527.hg.1 | -3.09 | PSR05020940.hg.1 | SERINC5 |
| TC05001527.hg.1 | -3.25 | JUC05010812.hg.1 | SERINC5 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC05001949.hg.1 | -2.14 | PSR05027134.hg.1 | CCDC69 |
| TC05001949.hg.1 | -2.23 | PSR05027151.hg.1 | CCDC69 |
| TC05001949.hg.1 | -2.65 | JUC05013821.hg.1 | CCDC69 |
| TC05001949.hg.1 | -2.82 | PSR05027152.hg.1 | CCDC69 |
| TC06000668.hg.1 | -2.14 | JUC06003554.hg.1 | LRRC1 |
| TC06000668.hg.1 | -2.16 | PSR06007986.hg.1 | LRRC1 |
| TC06000668.hg.1 | -2.41 | PSR06007988.hg.1 | LRRC1 |
| TC06000668.hg.1 | -3.44 | JUC06003550.hg.1 | LRRC1 |
| TC06000668.hg.1 | -4.46 | JUC06003560.hg.1 | LRRC1 |
| TC06000948.hg.1 | -2.14 | PSR06011035.hg.1 | PKIB |
| TC06000948.hg.1 | -2.56 | PSR06011022.hg.1 | PKIB |
| TC06000948.hg.1 | -7.41 | JUC06005260.hg.1 | PKIB |
| TC06001293.hg.1 | -2.14 | PSR06015510.hg.1 | ATXN1 |
| TC06001293.hg.1 | -2.41 | PSR06015492.hg.1 | ATXN1 |
| TC06001293.hg.1 | -3.14 | JUC06007711.hg.1 | ATXN1 |
| TC07000505.hg.1 | -2.14 | PSR07007142.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.14 | PSR07007162.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.38 | PSR07007152.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.59 | PSR07007138.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.62 | PSR07007132.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.68 | JUC07003401.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.87 | PSR07007137.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -2.98 | PSR07007161.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -3.03 | PSR07007133.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -3.32 | PSR07007143.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -3.7 | PSR07007134.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -3.74 | PSR07007135.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -4.01 | PSR07007136.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -4.29 | PSR07007146.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -4.73 | PSR07007165.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -5.87 | JUC07003411.hg.1 | MAGI2-AS3 |
| TC07000505.hg.1 | -6.63 | JUC07003400.hg.1 | MAGI2-AS3 |
| TC07001054.hg.1 | -2.14 | JUC07007870.hg.1 | UBE3C |
| TC07001054.hg.1 | -2.47 | JUC07007857.hg.1 | UBE3C |
| TC07001054.hg.1 | -2.67 | PSR07016238.hg.1 | UBE3C |
| TC07001054.hg.1 | -5.7 | JUC07007877.hg.1 | UBE3C |
| TC0Y000358.hg.1 | -2.14 | JUC0Y001956.hg.1 | FAM197Y5, F |
| TC0Y000358.hg.1 | -2.26 | PSR0Y001487.hg.1 | FAM197Y5, F |
| TC0Y000358.hg.1 | -2.42 | PSR0Y001489.hg.1 | FAM197Y5, F |
| TC0Y000358.hg.1 | -2.65 | JUC0Y001959.hg.1 | FAM197Y5, F |
| TC10001744.hg.1 | -2.14 | PSR10023119.hg.1 | ADAM12 |
| TC10001744.hg.1 | -2.24 | PSR10023126.hg.1 | ADAM12 |
| TC10001744.hg.1 | -2.3 | JUC10013354.hg.1 | ADAM12 |
| TC10001744.hg.1 | -3.13 | JUC10013342.hg.1 | ADAM12 |
| TC10001744.hg.1 | -3.83 | PSR10023132.hg.1 | ADAM12 |
| TC10001744.hg.1 | -4.5 | JUC10013338.hg.1 | ADAM12 |
| TC11000483.hg.1 | -2.14 | PSR11005866.hg.1 | FAM111A |
| TC11000483.hg.1 | -4.01 | JUC11003057.hg.1 | FAM111A |
| TC14002296.hg.1 | -2.14 | PSR14002694.hg.1 | CTAGE5 |
| TC14002296.hg.1 | -2.43 | JUC14011671.hg.1 | CTAGE5 |
| TC15001335.hg.1 | -2.14 | PSR15012721.hg.1 | FBN1 |
| TC15001335.hg.1 | -3.66 | JUC15006775.hg.1 | FBN1 |
| TC16001104.hg.1 | -2.14 | PSR16015489.hg.1 | BRD7 |
| TC16001104.hg.1 | -2.6 | JUC16008676.hg.1 | BRD7 |
| TC17001164.hg.1 | -2.14 | PSR17015724.hg.1 | FAM18B2, CI |
| TC17001164.hg.1 | -2.28 | PSR17015725.hg.1 | FAM18B2, CI |
| TC17001164.hg.1 | -2.3 | PSR17015703.hg.1 | FAM18B2, CI |
| TC17001164.hg.1 | -2.36 | JUC17009041.hg.1 | FAM18B2, CI |

| | | | |
|-----------------|-------|------------------|-------------|
| TC17001164.hg.1 | -2.37 | PSR17015709.hg.1 | FAM18B2, CI |
| TC17001164.hg.1 | -2.42 | PSR17015718.hg.1 | FAM18B2, CI |
| TC17001164.hg.1 | -2.42 | JUC17009037.hg.1 | FAM18B2, CI |
| TC17001164.hg.1 | -2.51 | PSR17015717.hg.1 | FAM18B2, CI |
| TC17001924.hg.1 | -2.14 | JUC17014767.hg.1 | LGALS3BP |
| TC17001924.hg.1 | -2.48 | PSR17026202.hg.1 | LGALS3BP |
| TC17001924.hg.1 | -2.87 | JUC17014763.hg.1 | LGALS3BP |
| TC19001077.hg.1 | -2.14 | JUC19008333.hg.1 | PLAC2 |
| TC19001077.hg.1 | -2.21 | PSR19014728.hg.1 | PLAC2 |
| TC19001077.hg.1 | -3.13 | PSR19014725.hg.1 | PLAC2 |
| TC19001643.hg.1 | -2.14 | PSR19022396.hg.1 | IGFL3 |
| TC19001643.hg.1 | -2.39 | PSR19022399.hg.1 | IGFL3 |
| TC19001643.hg.1 | -6.23 | JUC19012770.hg.1 | IGFL3 |
| TC20000764.hg.1 | -2.14 | PSR20010175.hg.1 | C20orf112 |
| TC20000764.hg.1 | -2.5 | JUC20005310.hg.1 | C20orf112 |
| TC20000764.hg.1 | -3.29 | PSR20010177.hg.1 | C20orf112 |
| TC6_apd_hap1000 | -2.14 | PSR6_apd_hap1000 | LOC554223 |
| TC6_apd_hap1000 | -4.9 | JUC6_apd_hap1000 | LOC554223 |
| TC6_cox_hap2000 | -2.14 | PSR6_cox_hap2000 | LOC554223 |
| TC6_cox_hap2000 | -4.9 | JUC6_cox_hap2000 | LOC554223 |
| TC01002935.hg.1 | -2.15 | JUC01024574.hg.1 | AMY1A, AMY |
| TC01002935.hg.1 | -2.25 | PSR01045614.hg.1 | AMY1A, AMY |
| TC02000460.hg.1 | -2.15 | PSR02007158.hg.1 | TTC31 |
| TC02000460.hg.1 | -2.75 | JUC02003651.hg.1 | TTC31 |
| TC02000794.hg.1 | -2.15 | PSR02012370.hg.1 | |
| TC02000794.hg.1 | -3.13 | JUC02006581.hg.1 | |
| TC03001590.hg.1 | -2.15 | JUC03014166.hg.1 | PROS1 |
| TC03001590.hg.1 | -2.38 | JUC03014179.hg.1 | PROS1 |
| TC03001590.hg.1 | -3.58 | JUC03014167.hg.1 | PROS1 |
| TC03001590.hg.1 | -3.66 | PSR03028708.hg.1 | PROS1 |
| TC03001590.hg.1 | -4.8 | PSR03028704.hg.1 | PROS1 |
| TC03001590.hg.1 | -4.95 | PSR03028699.hg.1 | PROS1 |
| TC03003411.hg.1 | -2.15 | PSR03025609.hg.1 | HYAL3 |
| TC03003411.hg.1 | -2.38 | JUC03024597.hg.1 | HYAL3 |
| TC04001682.hg.1 | -2.15 | PSR04023356.hg.1 | FAM198B, C4 |
| TC04001682.hg.1 | -2.33 | JUC04012349.hg.1 | FAM198B, C4 |
| TC04001682.hg.1 | -2.49 | PSR04023348.hg.1 | FAM198B, C4 |
| TC04001682.hg.1 | -2.49 | JUC04012345.hg.1 | FAM198B, C4 |
| TC04001682.hg.1 | -2.54 | PSR04023352.hg.1 | FAM198B, C4 |
| TC04001682.hg.1 | -2.68 | JUC04012348.hg.1 | FAM198B, C4 |
| TC04001682.hg.1 | -2.97 | JUC04012353.hg.1 | FAM198B, C4 |
| TC04001807.hg.1 | -2.15 | JUC04013051.hg.1 | CASP3 |
| TC04001807.hg.1 | -2.96 | PSR04024617.hg.1 | CASP3 |
| TC07000054.hg.1 | -2.15 | PSR07000881.hg.1 | |
| TC07000054.hg.1 | -2.64 | JUC07000359.hg.1 | |
| TC07000054.hg.1 | -3.02 | PSR07000878.hg.1 | |
| TC07000054.hg.1 | -3.83 | JUC07000360.hg.1 | |
| TC07000447.hg.1 | -2.15 | PSR07005938.hg.1 | CLDN4 |
| TC07000447.hg.1 | -2.32 | JUC07002866.hg.1 | CLDN4 |
| TC11001248.hg.1 | -2.15 | PSR11015789.hg.1 | PIDD |
| TC11001248.hg.1 | -3.15 | JUC11008522.hg.1 | PIDD |
| TC12000531.hg.1 | -2.15 | PSR12007001.hg.1 | MARS |
| TC12000531.hg.1 | -2.18 | PSR12007028.hg.1 | MARS |
| TC12000531.hg.1 | -2.47 | PSR12007024.hg.1 | MARS |
| TC12000531.hg.1 | -2.7 | PSR12007031.hg.1 | MARS |
| TC12000531.hg.1 | -2.89 | JUC12003680.hg.1 | MARS |
| TC12000531.hg.1 | -3.54 | JUC12003697.hg.1 | MARS |
| TC12000601.hg.1 | -2.15 | JUC12004165.hg.1 | RAP1B |

| | | | |
|------------------|-------|-------------------|----------|
| TC12000601.hg.1 | -2.3 | JUC12004167.hg.1 | RAP1B |
| TC12000601.hg.1 | -2.37 | PSR12007906.hg.1 | RAP1B |
| TC14000458.hg.1 | -2.15 | PSR14005730.hg.1 | ISCA2 |
| TC14000458.hg.1 | -2.41 | PSR14005729.hg.1 | ISCA2 |
| TC14000458.hg.1 | -3.03 | JUC14002933.hg.1 | ISCA2 |
| TC14000628.hg.1 | -2.15 | PSR14007750.hg.1 | EML1 |
| TC14000628.hg.1 | -2.68 | JUC14003985.hg.1 | EML1 |
| TC15000742.hg.1 | -2.15 | PSR15006689.hg.1 | KIAA1024 |
| TC15000742.hg.1 | -2.25 | PSR15006687.hg.1 | KIAA1024 |
| TC15000742.hg.1 | -2.43 | PSR15006694.hg.1 | KIAA1024 |
| TC15000742.hg.1 | -2.52 | PSR15006690.hg.1 | KIAA1024 |
| TC15000742.hg.1 | -3.23 | JUC15003394.hg.1 | KIAA1024 |
| TC15000742.hg.1 | -3.29 | JUC15003395.hg.1 | KIAA1024 |
| TC15001079.hg.1 | -2.15 | PSR15009810.hg.1 | ATP10A |
| TC15001079.hg.1 | -2.2 | PSR15009804.hg.1 | ATP10A |
| TC15001079.hg.1 | -3.64 | JUC15005109.hg.1 | ATP10A |
| TC16000332.hg.1 | -2.15 | JUC16002624.hg.1 | ASPHD1 |
| TC16000332.hg.1 | -2.33 | PSR16004761.hg.1 | ASPHD1 |
| TC17001807.hg.1 | -2.15 | JUC17013523.hg.1 | AMZ2P1 |
| TC17001807.hg.1 | -2.29 | JUC17013518.hg.1 | AMZ2P1 |
| TC17001807.hg.1 | -2.69 | PSR17024171.hg.1 | AMZ2P1 |
| TC17001807.hg.1 | -5.85 | JUC17013522.hg.1 | AMZ2P1 |
| TC6_cox_hap2000 | -2.15 | PSR6_cox_hap20030 | LY6G5C |
| TC6_cox_hap2000 | -2.16 | PSR6_cox_hap20030 | LY6G5C |
| TC6_cox_hap2000 | -2.26 | PSR6_cox_hap20030 | LY6G5C |
| TC6_cox_hap2000 | -2.3 | PSR6_cox_hap20030 | LY6G5C |
| TC6_cox_hap2000 | -2.32 | JUC6_cox_hap20010 | LY6G5C |
| TC6_cox_hap2000 | -2.63 | PSR6_cox_hap20030 | LY6G5C |
| TC6_cox_hap2000 | -2.84 | PSR6_cox_hap20030 | LY6G5C |
| TC6_dbb_hap3000 | -2.15 | PSR6_dbb_hap30020 | LY6G5C |
| TC6_dbb_hap3000 | -2.16 | PSR6_dbb_hap30020 | LY6G5C |
| TC6_dbb_hap3000 | -2.26 | PSR6_dbb_hap30020 | LY6G5C |
| TC6_dbb_hap3000 | -2.3 | PSR6_dbb_hap30020 | LY6G5C |
| TC6_dbb_hap3000 | -2.32 | JUC6_dbb_hap30010 | LY6G5C |
| TC6_dbb_hap3000 | -2.63 | PSR6_dbb_hap30020 | LY6G5C |
| TC6_dbb_hap3000 | -2.84 | PSR6_dbb_hap30020 | LY6G5C |
| TC6_mann_hap4000 | -2.15 | PSR6_mann_hap4000 | LY6G5C |
| TC6_mann_hap4000 | -2.16 | PSR6_mann_hap4000 | LY6G5C |
| TC6_mann_hap4000 | -2.26 | PSR6_mann_hap4000 | LY6G5C |
| TC6_mann_hap4000 | -2.3 | PSR6_mann_hap4000 | LY6G5C |
| TC6_mann_hap4000 | -2.32 | JUC6_mann_hap4000 | LY6G5C |
| TC6_mann_hap4000 | -2.63 | PSR6_mann_hap4000 | LY6G5C |
| TC6_mann_hap4000 | -2.84 | PSR6_mann_hap4000 | LY6G5C |
| TC6_mcf_hap5000 | -2.15 | PSR6_mcf_hap50020 | LY6G5C |
| TC6_mcf_hap5000 | -2.16 | PSR6_mcf_hap50020 | LY6G5C |
| TC6_mcf_hap5000 | -2.26 | PSR6_mcf_hap50020 | LY6G5C |
| TC6_mcf_hap5000 | -2.3 | PSR6_mcf_hap50020 | LY6G5C |
| TC6_mcf_hap5000 | -2.32 | JUC6_mcf_hap50000 | LY6G5C |
| TC6_mcf_hap5000 | -2.63 | PSR6_mcf_hap50020 | LY6G5C |
| TC6_mcf_hap5000 | -2.84 | PSR6_mcf_hap50020 | LY6G5C |
| TC6_qbl_hap6000 | -2.15 | PSR6_qbl_hap60029 | LY6G5C |
| TC6_qbl_hap6000 | -2.16 | PSR6_qbl_hap60029 | LY6G5C |
| TC6_qbl_hap6000 | -2.25 | PSR6_qbl_hap60029 | LY6G5C |
| TC6_qbl_hap6000 | -2.3 | PSR6_qbl_hap60029 | LY6G5C |
| TC6_qbl_hap6000 | -2.31 | JUC6_qbl_hap60011 | LY6G5C |
| TC6_qbl_hap6000 | -2.63 | PSR6_qbl_hap60029 | LY6G5C |
| TC6_qbl_hap6000 | -2.83 | PSR6_qbl_hap60029 | LY6G5C |
| TC6_ssto_hap7000 | -2.15 | PSR6_ssto_hap7002 | LY6G5C |

| | | | |
|------------------|--------|-------------------|------------|
| TC6_ssto_hap700C | -2.16 | PSR6_ssto_hap7002 | LY6G5C |
| TC6_ssto_hap700C | -2.25 | PSR6_ssto_hap7002 | LY6G5C |
| TC6_ssto_hap700C | -2.3 | PSR6_ssto_hap7002 | LY6G5C |
| TC6_ssto_hap700C | -2.31 | JUC6_ssto_hap7001 | LY6G5C |
| TC6_ssto_hap700C | -2.63 | PSR6_ssto_hap7002 | LY6G5C |
| TC6_ssto_hap700C | -2.83 | PSR6_ssto_hap7002 | LY6G5C |
| TC01000539.hg.1 | -2.16 | PSR01008513.hg.1 | FAM183A |
| TC01000539.hg.1 | -2.59 | JUC01004386.hg.1 | FAM183A |
| TC01000585.hg.1 | -2.16 | PSR01010000.hg.1 | FAAH |
| TC01000585.hg.1 | -3.57 | JUC01005124.hg.1 | FAAH |
| TC02000107.hg.1 | -2.16 | PSR02001281.hg.1 | KCNS3 |
| TC02000107.hg.1 | -2.75 | PSR02001283.hg.1 | KCNS3 |
| TC02000107.hg.1 | -2.99 | JUC02000716.hg.1 | KCNS3 |
| TC03000803.hg.1 | -2.16 | PSR03014459.hg.1 | HPS3 |
| TC03000803.hg.1 | -2.58 | JUC03007297.hg.1 | HPS3 |
| TC03000803.hg.1 | -2.59 | PSR03014462.hg.1 | HPS3 |
| TC03000803.hg.1 | -3.14 | JUC03007302.hg.1 | HPS3 |
| TC03000803.hg.1 | -16.84 | PSR03014463.hg.1 | HPS3 |
| TC03000803.hg.1 | -21.4 | PSR03014464.hg.1 | HPS3 |
| TC03000853.hg.1 | -2.16 | PSR03015100.hg.1 | TIPARP |
| TC03000853.hg.1 | -2.58 | JUC03007667.hg.1 | TIPARP |
| TC04001088.hg.1 | -2.16 | JUC04007973.hg.1 | CCDC149 |
| TC04001088.hg.1 | -2.38 | JUC04007986.hg.1 | CCDC149 |
| TC04001088.hg.1 | -2.39 | PSR04014972.hg.1 | CCDC149 |
| TC04001088.hg.1 | -2.45 | PSR04014981.hg.1 | CCDC149 |
| TC06001071.hg.1 | -2.16 | PSR06012679.hg.1 | STXBP5 |
| TC06001071.hg.1 | -2.22 | JUC06006232.hg.1 | STXBP5 |
| TC06001071.hg.1 | -2.4 | JUC06006212.hg.1 | STXBP5 |
| TC07000734.hg.1 | -2.16 | PSR07011718.hg.1 | ING3 |
| TC07000734.hg.1 | -2.23 | PSR07011721.hg.1 | ING3 |
| TC07000734.hg.1 | -2.35 | JUC07005488.hg.1 | ING3 |
| TC07000734.hg.1 | -2.87 | PSR07011719.hg.1 | ING3 |
| TC08000697.hg.1 | -2.16 | PSR08009410.hg.1 | NOV |
| TC08000697.hg.1 | -2.31 | JUC08004797.hg.1 | NOV |
| TC08000697.hg.1 | -6.6 | JUC08004798.hg.1 | NOV |
| TC08000697.hg.1 | -8.1 | PSR08009403.hg.1 | NOV |
| TC08002605.hg.1 | -2.16 | PSR08006151.hg.1 | C8orf46 |
| TC08002605.hg.1 | -2.79 | JUC08015086.hg.1 | C8orf46 |
| TC09002923.hg.1 | -2.16 | JUC09016094.hg.1 | GBGT1 |
| TC09002923.hg.1 | -2.24 | JUC09016104.hg.1 | GBGT1 |
| TC09002923.hg.1 | -2.3 | PSR09021529.hg.1 | GBGT1 |
| TC09002923.hg.1 | -2.7 | JUC09016093.hg.1 | GBGT1 |
| TC09002923.hg.1 | -3 | JUC09016095.hg.1 | GBGT1 |
| TC0Y000118.hg.1 | -2.16 | PSR0Y001342.hg.1 | ZBED1, DHR |
| TC0Y000118.hg.1 | -2.18 | PSR0Y001341.hg.1 | ZBED1, DHR |
| TC0Y000118.hg.1 | -2.18 | JUC0Y000858.hg.1 | ZBED1, DHR |
| TC0Y000118.hg.1 | -2.33 | JUC0Y000850.hg.1 | ZBED1, DHR |
| TC0Y000118.hg.1 | -2.36 | JUC0Y000859.hg.1 | ZBED1, DHR |
| TC0Y000118.hg.1 | -2.73 | PSR0Y001347.hg.1 | ZBED1, DHR |
| TC0Y000118.hg.1 | -3.45 | JUC0Y000856.hg.1 | ZBED1, DHR |
| TC11000302.hg.1 | -2.16 | JUC11002006.hg.1 | DNAJC24 |
| TC11000302.hg.1 | -2.22 | PSR11003843.hg.1 | DNAJC24 |
| TC11000630.hg.1 | -2.16 | PSR11007820.hg.1 | |
| TC11000630.hg.1 | -2.63 | PSR11007819.hg.1 | |
| TC11000630.hg.1 | -3 | JUC11004042.hg.1 | |
| TC12001755.hg.1 | -2.16 | PSR12023268.hg.1 | CSRP2 |
| TC12001755.hg.1 | -2.84 | JUC12012849.hg.1 | CSRP2 |
| TC12001755.hg.1 | -3.07 | PSR12023270.hg.1 | CSRP2 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC12001755.hg.1 | -5.8 | PSR12023264.hg.1 | CSRP2 |
| TC17001726.hg.1 | -2.16 | JUC17012839.hg.1 | MKS1 |
| TC17001726.hg.1 | -2.35 | PSR17023112.hg.1 | MKS1 |
| TC17001726.hg.1 | -2.36 | JUC17012849.hg.1 | MKS1 |
| TC19001576.hg.1 | -2.16 | PSR19021511.hg.1 | CEACAM8 |
| TC19001576.hg.1 | -2.35 | JUC19012322.hg.1 | CEACAM8 |
| TC6_mann_hap400 | -2.16 | JUC6_mann_hap400 | MICB |
| TC6_mann_hap400 | -2.4 | PSR6_mann_hap400 | MICB |
| TC6_mann_hap400 | -5.28 | JUC6_mann_hap400 | MICB |
| TC01000086.hg.1 | -2.17 | PSR01001363.hg.1 | LINC00337 |
| TC01000086.hg.1 | -2.37 | PSR01001358.hg.1 | LINC00337 |
| TC01000086.hg.1 | -2.49 | PSR01001359.hg.1 | LINC00337 |
| TC01000086.hg.1 | -2.58 | PSR01001360.hg.1 | LINC00337 |
| TC01000086.hg.1 | -2.72 | JUC01000710.hg.1 | LINC00337 |
| TC02001973.hg.1 | -2.17 | PSR02031439.hg.1 | MCEE |
| TC02001973.hg.1 | -2.18 | PSR02031440.hg.1 | MCEE |
| TC02001973.hg.1 | -2.54 | JUC02016397.hg.1 | MCEE |
| TC02001973.hg.1 | -2.66 | PSR02031429.hg.1 | MCEE |
| TC02001973.hg.1 | -2.83 | PSR02031433.hg.1 | MCEE |
| TC02002425.hg.1 | -2.17 | JUC02019774.hg.1 | NMI |
| TC02002425.hg.1 | -2.77 | PSR02038052.hg.1 | NMI |
| TC02002425.hg.1 | -3.24 | JUC02019776.hg.1 | NMI |
| TC03000832.hg.1 | -2.17 | JUC03007510.hg.1 | MBNL1 |
| TC03000832.hg.1 | -2.34 | JUC03007519.hg.1 | MBNL1 |
| TC03000832.hg.1 | -2.37 | PSR03014845.hg.1 | MBNL1 |
| TC03000832.hg.1 | -2.42 | JUC03007526.hg.1 | MBNL1 |
| TC03000832.hg.1 | -4.23 | JUC03007537.hg.1 | MBNL1 |
| TC06000846.hg.1 | -2.17 | PSR06009983.hg.1 | AIM1 |
| TC06000846.hg.1 | -2.4 | JUC06004685.hg.1 | AIM1 |
| TC07001896.hg.1 | -2.17 | JUC07014522.hg.1 | |
| TC07001896.hg.1 | -2.95 | PSR07029424.hg.1 | |
| TC0X000909.hg.1 | -2.17 | JUC0X006106.hg.1 | EIF1AX |
| TC0X000909.hg.1 | -2.58 | PSR0X012284.hg.1 | EIF1AX |
| TC11003501.hg.1 | -2.17 | PSR11015366.hg.1 | LOC10013310 |
| TC11003501.hg.1 | -2.2 | JUC11019748.hg.1 | LOC10013310 |
| TC12001450.hg.1 | -2.17 | JUC12010611.hg.1 | |
| TC12001450.hg.1 | -2.23 | PSR12018970.hg.1 | |
| TC12001450.hg.1 | -2.46 | PSR12018971.hg.1 | |
| TC14001364.hg.1 | -2.17 | PSR14015434.hg.1 | DIO2 |
| TC14001364.hg.1 | -2.38 | PSR14015433.hg.1 | DIO2 |
| TC14001364.hg.1 | -2.67 | PSR14015432.hg.1 | DIO2 |
| TC14001364.hg.1 | -2.93 | PSR14015431.hg.1 | DIO2 |
| TC14001364.hg.1 | -3.11 | JUC14007859.hg.1 | DIO2 |
| TC14001364.hg.1 | -3.17 | PSR14015422.hg.1 | DIO2 |
| TC14001364.hg.1 | -3.56 | JUC14007860.hg.1 | DIO2 |
| TC14001364.hg.1 | -5.35 | PSR14015441.hg.1 | DIO2 |
| TC14001364.hg.1 | -6.46 | JUC14007853.hg.1 | DIO2 |
| TC14001364.hg.1 | -8.85 | PSR14015443.hg.1 | DIO2 |
| TC14001436.hg.1 | -2.17 | PSR14016012.hg.1 | CCDC88C |
| TC14001436.hg.1 | -2.8 | JUC14008209.hg.1 | CCDC88C |
| TC14001436.hg.1 | -2.87 | JUC14008197.hg.1 | CCDC88C |
| TC14002342.hg.1 | -2.17 | PSR14010977.hg.1 | MDP1 |
| TC14002342.hg.1 | -2.39 | JUC14012382.hg.1 | MDP1 |
| TC19001905.hg.1 | -2.17 | JUC19014611.hg.1 | ZNF814 |
| TC19001905.hg.1 | -2.22 | PSR19025802.hg.1 | ZNF814 |
| TC19001905.hg.1 | -2.23 | PSR19025809.hg.1 | ZNF814 |
| TC19001905.hg.1 | -2.28 | PSR19025806.hg.1 | ZNF814 |
| TC19001905.hg.1 | -2.28 | PSR19025808.hg.1 | ZNF814 |

| | | | |
|-----------------|-------|------------------|----------|
| TC19001905.hg.1 | -2.49 | PSR19025807.hg.1 | ZNF814 |
| TC19001905.hg.1 | -2.57 | PSR19025803.hg.1 | ZNF814 |
| TC22001427.hg.1 | -2.17 | JUC22008607.hg.1 | APOBEC3D |
| TC22001427.hg.1 | -2.17 | JUC22008608.hg.1 | APOBEC3D |
| TC22001427.hg.1 | -2.17 | JUC22008609.hg.1 | APOBEC3D |
| TC22001427.hg.1 | -2.2 | PSR22005800.hg.1 | APOBEC3D |
| TC22001427.hg.1 | -2.31 | JUC22008605.hg.1 | APOBEC3D |
| TC01001288.hg.1 | -2.18 | PSR01019903.hg.1 | EFNA1 |
| TC01001288.hg.1 | -2.2 | PSR01019905.hg.1 | EFNA1 |
| TC01001288.hg.1 | -2.36 | PSR01019908.hg.1 | EFNA1 |
| TC01001288.hg.1 | -2.44 | JUC01010696.hg.1 | EFNA1 |
| TC01001288.hg.1 | -6.59 | JUC01010699.hg.1 | EFNA1 |
| TC02000581.hg.1 | -2.18 | PSR02008876.hg.1 | ITPRIPL1 |
| TC02000581.hg.1 | -3.11 | PSR02008875.hg.1 | ITPRIPL1 |
| TC02000581.hg.1 | -3.41 | PSR02008877.hg.1 | ITPRIPL1 |
| TC02000581.hg.1 | -3.52 | JUC02004508.hg.1 | ITPRIPL1 |
| TC02000581.hg.1 | -3.63 | PSR02008883.hg.1 | ITPRIPL1 |
| TC02000706.hg.1 | -2.18 | PSR02010926.hg.1 | TTL |
| TC02000706.hg.1 | -2.71 | JUC02005787.hg.1 | TTL |
| TC03003324.hg.1 | -2.18 | PSR03013375.hg.1 | IL20RB |
| TC03003324.hg.1 | -2.23 | PSR03013389.hg.1 | IL20RB |
| TC03003324.hg.1 | -2.34 | JUC03023126.hg.1 | IL20RB |
| TC03003324.hg.1 | -2.38 | PSR03013379.hg.1 | IL20RB |
| TC03003324.hg.1 | -2.44 | JUC03023127.hg.1 | IL20RB |
| TC03003324.hg.1 | -2.93 | JUC03023119.hg.1 | IL20RB |
| TC03003324.hg.1 | -2.96 | JUC03023129.hg.1 | IL20RB |
| TC03003324.hg.1 | -3.18 | PSR03013378.hg.1 | IL20RB |
| TC03003324.hg.1 | -3.53 | PSR03013383.hg.1 | IL20RB |
| TC05000343.hg.1 | -2.18 | JUC05002528.hg.1 | FCHO2 |
| TC05000343.hg.1 | -2.73 | JUC05002540.hg.1 | FCHO2 |
| TC05000343.hg.1 | -3.51 | PSR05004722.hg.1 | FCHO2 |
| TC11001203.hg.1 | -2.18 | PSR11015111.hg.1 | NTM |
| TC11001203.hg.1 | -2.2 | PSR11015136.hg.1 | NTM |
| TC11001203.hg.1 | -2.57 | PSR11015116.hg.1 | NTM |
| TC11001203.hg.1 | -2.61 | PSR11015147.hg.1 | NTM |
| TC11001203.hg.1 | -2.63 | PSR11015138.hg.1 | NTM |
| TC11001203.hg.1 | -2.63 | JUC11008183.hg.1 | NTM |
| TC11001203.hg.1 | -2.68 | PSR11015109.hg.1 | NTM |
| TC11001203.hg.1 | -2.74 | PSR11015110.hg.1 | NTM |
| TC11001203.hg.1 | -2.87 | PSR11015140.hg.1 | NTM |
| TC11001203.hg.1 | -2.91 | JUC11008185.hg.1 | NTM |
| TC11001203.hg.1 | -2.93 | PSR11015137.hg.1 | NTM |
| TC11001203.hg.1 | -3.07 | PSR11015101.hg.1 | NTM |
| TC11001203.hg.1 | -3.19 | JUC11008188.hg.1 | NTM |
| TC11001203.hg.1 | -3.28 | PSR11015130.hg.1 | NTM |
| TC11001203.hg.1 | -3.86 | PSR11015106.hg.1 | NTM |
| TC11001203.hg.1 | -3.91 | PSR11015100.hg.1 | NTM |
| TC11001203.hg.1 | -3.93 | PSR11015102.hg.1 | NTM |
| TC11001203.hg.1 | -3.97 | PSR11015125.hg.1 | NTM |
| TC11001203.hg.1 | -4.03 | PSR11015118.hg.1 | NTM |
| TC11001203.hg.1 | -4.04 | PSR11015099.hg.1 | NTM |
| TC11001203.hg.1 | -5.16 | PSR11015134.hg.1 | NTM |
| TC11001203.hg.1 | -5.37 | JUC11008195.hg.1 | NTM |
| TC11001203.hg.1 | -5.6 | PSR11015103.hg.1 | NTM |
| TC20000588.hg.1 | -2.18 | JUC20004438.hg.1 | SLC23A2 |
| TC20000588.hg.1 | -2.98 | JUC20004436.hg.1 | SLC23A2 |
| TC20000588.hg.1 | -3.22 | PSR20008587.hg.1 | SLC23A2 |
| TC20000945.hg.1 | -2.18 | JUC20006776.hg.1 | SALL4 |

| | | | |
|-----------------|-------|------------------|-----------|
| TC20000945.hg.1 | -2.34 | PSR20013064.hg.1 | SALL4 |
| TC20000945.hg.1 | -2.95 | PSR20013063.hg.1 | SALL4 |
| TC20000945.hg.1 | -3.29 | JUC20006779.hg.1 | SALL4 |
| TC20000945.hg.1 | -3.37 | PSR20013065.hg.1 | SALL4 |
| TC20000945.hg.1 | -3.42 | PSR20013066.hg.1 | SALL4 |
| TC20000945.hg.1 | -3.7 | JUC20006780.hg.1 | SALL4 |
| TC20000945.hg.1 | -4.3 | JUC20006781.hg.1 | SALL4 |
| TC22000054.hg.1 | -2.18 | PSR22000693.hg.1 | RANBP1 |
| TC22000054.hg.1 | -2.21 | JUC22000317.hg.1 | RANBP1 |
| TC22000054.hg.1 | -2.27 | JUC22000319.hg.1 | RANBP1 |
| TC22000054.hg.1 | -3.3 | JUC22000318.hg.1 | RANBP1 |
| TC22000383.hg.1 | -2.18 | PSR22007423.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.18 | PSR22007467.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.3 | JUC22002801.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.36 | PSR22007418.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.38 | PSR22007461.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.43 | PSR22007414.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.49 | PSR22007429.hg.1 | FBLN1 |
| TC22000383.hg.1 | -2.53 | JUC22002802.hg.1 | FBLN1 |
| TC22000383.hg.1 | -3.06 | JUC22002805.hg.1 | FBLN1 |
| TC22000383.hg.1 | -3.54 | JUC22002822.hg.1 | FBLN1 |
| TC22000383.hg.1 | -4.24 | JUC22002797.hg.1 | FBLN1 |
| TC02001693.hg.1 | -2.19 | JUC02014292.hg.1 | SUPT7L |
| TC02001693.hg.1 | -2.24 | PSR02027382.hg.1 | SUPT7L |
| TC0X000622.hg.1 | -2.19 | JUC0X004161.hg.1 | SLC25A14 |
| TC0X000622.hg.1 | -2.68 | PSR0X008243.hg.1 | SLC25A14 |
| TC0X000622.hg.1 | -2.72 | PSR0X008216.hg.1 | SLC25A14 |
| TC12000434.hg.1 | -2.19 | PSR12005604.hg.1 | ESPL1 |
| TC12000434.hg.1 | -2.21 | JUC12003100.hg.1 | ESPL1 |
| TC12000434.hg.1 | -2.83 | JUC12003105.hg.1 | ESPL1 |
| TC12000434.hg.1 | -3.07 | PSR12005608.hg.1 | ESPL1 |
| TC12001136.hg.1 | -2.19 | PSR12014895.hg.1 | SCNN1A |
| TC12001136.hg.1 | -2.69 | PSR12014889.hg.1 | SCNN1A |
| TC12001136.hg.1 | -3.69 | JUC12008229.hg.1 | SCNN1A |
| TC17000961.hg.1 | -2.19 | PSR17012707.hg.1 | DOC2B |
| TC17000961.hg.1 | -3.09 | JUC17007224.hg.1 | DOC2B |
| TC02001097.hg.1 | -2.2 | PSR02016425.hg.1 | FSIP2 |
| TC02001097.hg.1 | -2.41 | PSR02016399.hg.1 | FSIP2 |
| TC02001097.hg.1 | -2.55 | PSR02016422.hg.1 | FSIP2 |
| TC02001097.hg.1 | -2.59 | JUC02008747.hg.1 | FSIP2 |
| TC02001097.hg.1 | -3.03 | JUC02008751.hg.1 | FSIP2 |
| TC03001521.hg.1 | -2.2 | JUC03013572.hg.1 | THOC7 |
| TC03001521.hg.1 | -2.5 | PSR03027680.hg.1 | THOC7 |
| TC06002330.hg.1 | -2.2 | PSR06029229.hg.1 | THBS2 |
| TC06002330.hg.1 | -2.22 | PSR06029215.hg.1 | THBS2 |
| TC06002330.hg.1 | -2.27 | JUC06014647.hg.1 | THBS2 |
| TC06002330.hg.1 | -2.31 | PSR06029230.hg.1 | THBS2 |
| TC10000005.hg.1 | -2.2 | PSR10000065.hg.1 | C10orf108 |
| TC10000005.hg.1 | -2.37 | JUC10000035.hg.1 | C10orf108 |
| TC15000321.hg.1 | -2.2 | PSR15002621.hg.1 | HAUS2 |
| TC15000321.hg.1 | -3.21 | JUC15001245.hg.1 | HAUS2 |
| TC15000321.hg.1 | -3.36 | JUC15001251.hg.1 | HAUS2 |
| TC16002091.hg.1 | -2.2 | JUC16013925.hg.1 | TMEM231 |
| TC16002091.hg.1 | -2.41 | JUC16013924.hg.1 | TMEM231 |
| TC16002091.hg.1 | -2.57 | PSR16017845.hg.1 | TMEM231 |
| TC16002091.hg.1 | -3.07 | JUC16013927.hg.1 | TMEM231 |
| TC18000497.hg.1 | -2.2 | JUC18003483.hg.1 | ZBTB7C |
| TC18000497.hg.1 | -2.38 | PSR18005169.hg.1 | ZBTB7C |

| | | | |
|-----------------|-------|------------------|---------|
| TC18000497.hg.1 | -3.33 | JUC18003487.hg.1 | ZBTB7C |
| TC20000879.hg.1 | -2.2 | JUC20006235.hg.1 | TP53TG5 |
| TC20000879.hg.1 | -2.35 | PSR20011990.hg.1 | TP53TG5 |
| TC22000535.hg.1 | -2.2 | PSR22009715.hg.1 | GGT2 |
| TC22000535.hg.1 | -2.46 | PSR22009705.hg.1 | GGT2 |
| TC22000535.hg.1 | -3.15 | JUC22003837.hg.1 | GGT2 |
| TC22000535.hg.1 | -3.27 | JUC22003860.hg.1 | GGT2 |
| TC22000535.hg.1 | -3.36 | JUC22003834.hg.1 | GGT2 |
| TC22000535.hg.1 | -17.6 | JUC22003842.hg.1 | GGT2 |
| TC22000889.hg.1 | -2.2 | JUC22006235.hg.1 | CELSR1 |
| TC22000889.hg.1 | -2.25 | PSR22014918.hg.1 | CELSR1 |
| TC22000889.hg.1 | -2.32 | PSR22014963.hg.1 | CELSR1 |
| TC22000889.hg.1 | -2.72 | PSR22014956.hg.1 | CELSR1 |
| TC22000889.hg.1 | -2.85 | JUC22006236.hg.1 | CELSR1 |
| TC22000889.hg.1 | -2.89 | JUC22006231.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.15 | PSR22014929.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.24 | PSR22014932.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.38 | JUC22006238.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.4 | PSR22014944.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.5 | PSR22014938.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.55 | PSR22014948.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.74 | PSR22014957.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.79 | JUC22006243.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.86 | JUC22006265.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.91 | JUC22006249.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.95 | PSR22014933.hg.1 | CELSR1 |
| TC22000889.hg.1 | -3.97 | JUC22006261.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.22 | PSR22014964.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.36 | JUC22006234.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.37 | PSR22014926.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.39 | JUC22006260.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.64 | PSR22014955.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.83 | PSR22014943.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.85 | PSR22014947.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.85 | JUC22006257.hg.1 | CELSR1 |
| TC22000889.hg.1 | -4.9 | PSR22014939.hg.1 | CELSR1 |
| TC22000889.hg.1 | -5.31 | PSR22014945.hg.1 | CELSR1 |
| TC22000889.hg.1 | -5.43 | PSR22014925.hg.1 | CELSR1 |
| TC22000889.hg.1 | -5.67 | JUC22006254.hg.1 | CELSR1 |
| TC22000889.hg.1 | -5.72 | PSR22014942.hg.1 | CELSR1 |
| TC22000889.hg.1 | -5.81 | PSR22014950.hg.1 | CELSR1 |
| TC22000889.hg.1 | -5.84 | PSR22014941.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.01 | PSR22014936.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.05 | PSR22014953.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.16 | PSR22014954.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.21 | PSR22014935.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.36 | PSR22014952.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.42 | PSR22014940.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.52 | PSR22014959.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.52 | PSR22014961.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.64 | JUC22006239.hg.1 | CELSR1 |
| TC22000889.hg.1 | -6.87 | PSR22014924.hg.1 | CELSR1 |
| TC22000889.hg.1 | -7.18 | PSR22014946.hg.1 | CELSR1 |
| TC22000889.hg.1 | -7.4 | JUC22006253.hg.1 | CELSR1 |
| TC22000889.hg.1 | -7.75 | PSR22014937.hg.1 | CELSR1 |
| TC22000889.hg.1 | -8.01 | PSR22014921.hg.1 | CELSR1 |
| TC22000889.hg.1 | -8.03 | PSR22014923.hg.1 | CELSR1 |
| TC22000889.hg.1 | -8.67 | PSR22014917.hg.1 | CELSR1 |

| | | | |
|------------------|--------|-------------------|----------|
| TC22000889.hg.1 | -8.7 | PSR22014931.hg.1 | CELSR1 |
| TC22000889.hg.1 | -8.91 | PSR22014919.hg.1 | CELSR1 |
| TC22000889.hg.1 | -9.04 | PSR22014922.hg.1 | CELSR1 |
| TC22000889.hg.1 | -9.96 | JUC22006262.hg.1 | CELSR1 |
| TC22000889.hg.1 | -10.22 | PSR22014934.hg.1 | CELSR1 |
| TC22000889.hg.1 | -10.95 | PSR22014920.hg.1 | CELSR1 |
| TC22000889.hg.1 | -11.97 | JUC22006241.hg.1 | CELSR1 |
| TC22000889.hg.1 | -12.19 | PSR22014930.hg.1 | CELSR1 |
| TC6_mann_hap400 | -2.2 | PSR6_mann_hap400 | HLA-DPB2 |
| TC6_mann_hap400 | -2.87 | PSR6_mann_hap400 | HLA-DPB2 |
| TC6_mann_hap400 | -3.48 | JUC6_mann_hap400 | HLA-DPB2 |
| TC6_mann_hap400 | -5.45 | JUC6_mann_hap400 | HLA-DPB2 |
| TC6_mann_hap400 | -29.21 | JUC6_mann_hap400 | HLA-DPB2 |
| TC6_qbl_hap60002 | -2.2 | PSR6_qbl_hap60018 | HLA-DPB2 |
| TC6_qbl_hap60002 | -2.87 | PSR6_qbl_hap60018 | HLA-DPB2 |
| TC6_qbl_hap60002 | -3.48 | JUC6_qbl_hap60017 | HLA-DPB2 |
| TC6_qbl_hap60002 | -5.45 | JUC6_qbl_hap60017 | HLA-DPB2 |
| TC6_qbl_hap60002 | -29.21 | JUC6_qbl_hap60017 | HLA-DPB2 |
| TC01000776.hg.1 | -2.21 | PSR01012348.hg.1 | ACADM |
| TC01000776.hg.1 | -2.28 | PSR01012349.hg.1 | ACADM |
| TC01000776.hg.1 | -3.02 | JUC01006489.hg.1 | ACADM |
| TC01003218.hg.1 | -2.21 | PSR01049465.hg.1 | CDC42SE1 |
| TC01003218.hg.1 | -2.44 | PSR01049467.hg.1 | CDC42SE1 |
| TC01003218.hg.1 | -2.67 | JUC01026288.hg.1 | CDC42SE1 |
| TC01003298.hg.1 | -2.21 | PSR01050900.hg.1 | PBXIP1 |
| TC01003298.hg.1 | -2.53 | JUC01026881.hg.1 | PBXIP1 |
| TC02000280.hg.1 | -2.21 | JUC02002202.hg.1 | PRKCE |
| TC02000280.hg.1 | -2.38 | PSR02004222.hg.1 | PRKCE |
| TC02000280.hg.1 | -3.47 | JUC02002194.hg.1 | PRKCE |
| TC04001403.hg.1 | -2.21 | PSR04019508.hg.1 | EIF4E |
| TC04001403.hg.1 | -3.21 | JUC04010263.hg.1 | EIF4E |
| TC05000165.hg.1 | -2.21 | JUC05001041.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -2.23 | PSR05001875.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -2.56 | PSR05001863.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -2.77 | PSR05001855.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -2.91 | JUC05001037.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -3.17 | PSR05001870.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -3.29 | JUC05001036.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -3.37 | PSR05001891.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.19 | PSR05001850.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.21 | PSR05001884.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.42 | PSR05001856.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.69 | PSR05001857.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.79 | PSR05001868.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.91 | PSR05001893.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -4.96 | JUC05001046.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -5.45 | PSR05001866.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -5.81 | PSR05001876.hg.1 | SLC1A3 |
| TC05000165.hg.1 | -6.01 | PSR05001862.hg.1 | SLC1A3 |
| TC05000723.hg.1 | -2.21 | PSR05010263.hg.1 | CYSTM1 |
| TC05000723.hg.1 | -2.43 | JUC05005438.hg.1 | CYSTM1 |
| TC05002081.hg.1 | -2.21 | PSR05028551.hg.1 | |
| TC05002081.hg.1 | -2.59 | JUC05014573.hg.1 | |
| TC06000737.hg.1 | -2.21 | JUC06004076.hg.1 | CD109 |
| TC06000737.hg.1 | -3.12 | PSR06008859.hg.1 | CD109 |
| TC07001612.hg.1 | -2.21 | JUC07012189.hg.1 | BET1 |
| TC07001612.hg.1 | -2.23 | PSR07024451.hg.1 | BET1 |
| TC07001612.hg.1 | -2.46 | PSR07024448.hg.1 | BET1 |

| | | | |
|-----------------|--------|------------------|------------|
| TC07001612.hg.1 | -2.48 | PSR07024452.hg.1 | BET1 |
| TC07001612.hg.1 | -2.62 | PSR07024447.hg.1 | BET1 |
| TC07003312.hg.1 | -2.21 | PSR07006934.hg.1 | CCDC146 |
| TC07003312.hg.1 | -2.32 | PSR07006931.hg.1 | CCDC146 |
| TC07003312.hg.1 | -2.32 | JUC07020670.hg.1 | CCDC146 |
| TC07003312.hg.1 | -2.75 | PSR07006932.hg.1 | CCDC146 |
| TC09001335.hg.1 | -2.21 | PSR09016737.hg.1 | OMD |
| TC09001335.hg.1 | -2.9 | JUC09008990.hg.1 | OMD |
| TC09001335.hg.1 | -16.19 | JUC09008989.hg.1 | OMD |
| TC09001335.hg.1 | -19.46 | PSR09016739.hg.1 | OMD |
| TC09001542.hg.1 | -2.21 | JUC09010539.hg.1 | C5 |
| TC09001542.hg.1 | -2.24 | JUC09010516.hg.1 | C5 |
| TC09001542.hg.1 | -2.24 | JUC09010544.hg.1 | C5 |
| TC09001542.hg.1 | -2.62 | PSR09019429.hg.1 | C5 |
| TC09001542.hg.1 | -2.65 | JUC09010538.hg.1 | C5 |
| TC09001695.hg.1 | -2.21 | PSR09021734.hg.1 | SARDH |
| TC09001695.hg.1 | -2.32 | PSR09021736.hg.1 | SARDH |
| TC09001695.hg.1 | -2.45 | JUC09011685.hg.1 | SARDH |
| TC09001695.hg.1 | -2.96 | JUC09011672.hg.1 | SARDH |
| TC09002895.hg.1 | -2.21 | PSR09016202.hg.1 | ISCA1 |
| TC09002895.hg.1 | -2.96 | JUC09015763.hg.1 | ISCA1 |
| TC0X000991.hg.1 | -2.21 | PSR0X013137.hg.1 | ZNF674 |
| TC0X000991.hg.1 | -2.53 | JUC0X006608.hg.1 | ZNF674 |
| TC0X000991.hg.1 | -2.78 | JUC0X006609.hg.1 | ZNF674 |
| TC0Y000142.hg.1 | -2.21 | PSR0Y001466.hg.1 | FAM197Y2P, |
| TC0Y000142.hg.1 | -2.41 | PSR0Y001463.hg.1 | FAM197Y2P, |
| TC0Y000142.hg.1 | -2.6 | PSR0Y001462.hg.1 | FAM197Y2P, |
| TC0Y000142.hg.1 | -2.68 | JUC0Y000910.hg.1 | FAM197Y2P, |
| TC0Y000142.hg.1 | -3.02 | PSR0Y001464.hg.1 | FAM197Y2P, |
| TC0Y000142.hg.1 | -3.31 | JUC0Y000914.hg.1 | FAM197Y2P, |
| TC11000206.hg.1 | -2.21 | JUC11001332.hg.1 | ARNTL |
| TC11000206.hg.1 | -2.63 | JUC11001329.hg.1 | ARNTL |
| TC11000206.hg.1 | -2.96 | JUC11001317.hg.1 | ARNTL |
| TC11000206.hg.1 | -8.86 | PSR11002758.hg.1 | ARNTL |
| TC12000207.hg.1 | -2.21 | JUC12001217.hg.1 | MGST1 |
| TC12000207.hg.1 | -3.25 | PSR12002583.hg.1 | MGST1 |
| TC12000674.hg.1 | -2.21 | PSR12008881.hg.1 | |
| TC12000674.hg.1 | -2.29 | JUC12004775.hg.1 | |
| TC14000297.hg.1 | -2.21 | PSR14003131.hg.1 | FRMD6 |
| TC14000297.hg.1 | -5.03 | JUC14001492.hg.1 | FRMD6 |
| TC16001135.hg.1 | -2.21 | PSR16015818.hg.1 | MT1G |
| TC16001135.hg.1 | -2.89 | JUC16008874.hg.1 | MT1G |
| TC19000012.hg.1 | -2.21 | PSR19000093.hg.1 | FSTL3 |
| TC19000012.hg.1 | -2.58 | JUC19000052.hg.1 | FSTL3 |
| TC19000117.hg.1 | -2.21 | PSR19001757.hg.1 | TNFSF9 |
| TC19000117.hg.1 | -3 | JUC19001025.hg.1 | TNFSF9 |
| TC19000990.hg.1 | -2.21 | PSR19013501.hg.1 | LPPR3 |
| TC19000990.hg.1 | -3.66 | JUC19007554.hg.1 | LPPR3 |
| TC20000822.hg.1 | -2.21 | JUC20005847.hg.1 | RBL1 |
| TC20000822.hg.1 | -2.31 | PSR20011314.hg.1 | RBL1 |
| TC02000695.hg.1 | -2.22 | PSR02010740.hg.1 | BCL2L11 |
| TC02000695.hg.1 | -2.38 | PSR02010748.hg.1 | BCL2L11 |
| TC02000695.hg.1 | -2.38 | JUC02005682.hg.1 | BCL2L11 |
| TC03001717.hg.1 | -2.22 | JUC03015551.hg.1 | ITGB5 |
| TC03001717.hg.1 | -2.27 | PSR03031225.hg.1 | ITGB5 |
| TC04000401.hg.1 | -2.22 | JUC04002741.hg.1 | |
| TC04000401.hg.1 | -2.29 | PSR04005499.hg.1 | |
| TC04000401.hg.1 | -3.39 | PSR04005500.hg.1 | |

| | | | |
|-----------------|--------|------------------|-------------|
| TC06000327.hg.1 | -2.22 | PSR06002647.hg.1 | |
| TC06000327.hg.1 | -3.39 | JUC06001184.hg.1 | |
| TC06000327.hg.1 | -3.87 | JUC06001182.hg.1 | |
| TC06000545.hg.1 | -2.22 | PSR06006033.hg.1 | FTSJD2 |
| TC06000545.hg.1 | -2.23 | JUC06002493.hg.1 | FTSJD2 |
| TC0X000727.hg.1 | -2.22 | PSR0X009365.hg.1 | HMGB3 |
| TC0X000727.hg.1 | -2.82 | PSR0X009370.hg.1 | HMGB3 |
| TC0X000727.hg.1 | -2.84 | JUC0X004750.hg.1 | HMGB3 |
| TC0X000727.hg.1 | -3.01 | PSR0X009369.hg.1 | HMGB3 |
| TC16000426.hg.1 | -2.22 | PSR16005892.hg.1 | GPT2 |
| TC16000426.hg.1 | -2.31 | JUC16003233.hg.1 | GPT2 |
| TC16000426.hg.1 | -2.35 | JUC16003224.hg.1 | GPT2 |
| TC22000850.hg.1 | -2.22 | PSR22014367.hg.1 | CYB5R3 |
| TC22000850.hg.1 | -4.91 | JUC22005906.hg.1 | CYB5R3 |
| TC22000850.hg.1 | -6.64 | JUC22005911.hg.1 | CYB5R3 |
| TC01003491.hg.1 | -2.23 | JUC01028289.hg.1 | DPT |
| TC01003491.hg.1 | -15.29 | PSR01054273.hg.1 | DPT |
| TC01003526.hg.1 | -2.23 | PSR01054687.hg.1 | LOC1005060 |
| TC01003526.hg.1 | -2.67 | PSR01054688.hg.1 | LOC1005060 |
| TC01003526.hg.1 | -2.74 | JUC01028529.hg.1 | LOC1005060 |
| TC03000168.hg.1 | -2.23 | PSR03003095.hg.1 | PDCD6IP |
| TC03000168.hg.1 | -2.34 | JUC03001610.hg.1 | PDCD6IP |
| TC04001092.hg.1 | -2.23 | PSR04015063.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -2.34 | PSR04015050.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -2.38 | PSR04015087.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -2.44 | PSR04015060.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -2.47 | PSR04015088.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -2.63 | PSR04015085.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -2.71 | PSR04015048.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -3.35 | JUC04008025.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -3.62 | PSR04015044.hg.1 | SEL1L3 |
| TC04001092.hg.1 | -4.05 | JUC04008024.hg.1 | SEL1L3 |
| TC05000657.hg.1 | -2.23 | PSR05009081.hg.1 | TCF7 |
| TC05000657.hg.1 | -2.37 | PSR05009044.hg.1 | TCF7 |
| TC05000657.hg.1 | -2.45 | JUC05004892.hg.1 | TCF7 |
| TC05000657.hg.1 | -2.7 | JUC05004885.hg.1 | TCF7 |
| TC07003310.hg.1 | -2.23 | PSR07006905.hg.1 | UPK3B |
| TC07003310.hg.1 | -2.38 | JUC07020623.hg.1 | UPK3B |
| TC08001032.hg.1 | -2.23 | JUC08006820.hg.1 | NUDT18 |
| TC08001032.hg.1 | -2.85 | PSR08013124.hg.1 | NUDT18 |
| TC08001184.hg.1 | -2.23 | PSR08015266.hg.1 | RNF170, MIR |
| TC08001184.hg.1 | -2.48 | JUC08007832.hg.1 | RNF170, MIR |
| TC10000702.hg.1 | -2.23 | PSR10008156.hg.1 | MARVELD1 |
| TC10000702.hg.1 | -3.13 | JUC10004561.hg.1 | MARVELD1 |
| TC02000172.hg.1 | -2.24 | JUC02001166.hg.1 | LOC1005056 |
| TC02000172.hg.1 | -2.63 | PSR02002244.hg.1 | LOC1005056 |
| TC02000172.hg.1 | -3.56 | PSR02002243.hg.1 | LOC1005056 |
| TC02000403.hg.1 | -2.24 | PSR02006067.hg.1 | ANTXR1 |
| TC02000403.hg.1 | -2.59 | PSR02006074.hg.1 | ANTXR1 |
| TC02000403.hg.1 | -3.36 | JUC02003161.hg.1 | ANTXR1 |
| TC02000403.hg.1 | -3.53 | PSR02006079.hg.1 | ANTXR1 |
| TC02000403.hg.1 | -4.37 | PSR02006078.hg.1 | ANTXR1 |
| TC02002838.hg.1 | -2.24 | PSR02045853.hg.1 | SLC19A3 |
| TC02002838.hg.1 | -3.23 | JUC02023986.hg.1 | SLC19A3 |
| TC04001703.hg.1 | -2.24 | JUC04012457.hg.1 | TRIM61 |
| TC04001703.hg.1 | -2.93 | PSR04023558.hg.1 | TRIM61 |
| TC04001703.hg.1 | -3.12 | PSR04023559.hg.1 | TRIM61 |
| TC06001089.hg.1 | -2.24 | JUC06006323.hg.1 | ULBP1 |

| | | | |
|-----------------|-------|--------------------------|--------------|
| TC06001089.hg.1 | -2.47 | PSR06012865.hg.1 | ULBP1 |
| TC10000401.hg.1 | -2.24 | JUC10002588.hg.1 | MYPN |
| TC10000401.hg.1 | -2.68 | JUC10002572.hg.1 | MYPN |
| TC10000401.hg.1 | -2.78 | PSR10004463.hg.1 | MYPN |
| TC10000401.hg.1 | -2.83 | JUC10002573.hg.1 | MYPN |
| TC10000401.hg.1 | -5.45 | JUC10002585.hg.1 | MYPN |
| TC12001866.hg.1 | -2.24 | PSR12024474.hg.1 | GOLGA2P5 |
| TC12001866.hg.1 | -2.36 | JUC12013630.hg.1 | GOLGA2P5 |
| TC12001866.hg.1 | -3.46 | JUC12013632.hg.1 | GOLGA2P5 |
| TC12001866.hg.1 | -3.92 | JUC12013616.hg.1 | GOLGA2P5 |
| TC01001118.hg.1 | -2.25 | PSR01017656.hg.1 | GPR89C, GP |
| TC01001118.hg.1 | -2.9 | JUC01009713.hg.1 | GPR89C, GP |
| TC01001900.hg.1 | -2.25 | JUC01015969.hg.1 | RAB4A, SPH, |
| TC01001900.hg.1 | -2.47 | PSR01029569.hg.1 | RAB4A, SPH, |
| TC03000382.hg.1 | -2.25 | JUC03004112.hg.1 | |
| TC03000382.hg.1 | -2.34 | PSR03008312.hg.1 | |
| TC03003319.hg.1 | -2.25 | JUC03023066.hg.1 | NXPE3 |
| TC03003319.hg.1 | -2.34 | PSR03009737.hg.1 | NXPE3 |
| TC04000441.hg.1 | -2.25 | PSR04006375.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -2.4 | PSR04006376.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -2.42 | PSR04006366.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -2.51 | JUC04003239.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -2.79 | PSR04006367.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -2.96 | PSR04006372.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -3.16 | PSR04006369.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -3.92 | PSR04006358.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -4.09 | PSR04006374.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -4.09 | JUC04003245.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -4.36 | PSR04006368.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -4.46 | PSR04006362.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -4.58 | JUC04003236.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -4.88 | PSR04006380.hg.1 | LOC1005058 |
| TC04000441.hg.1 | -5.76 | PSR04006363.hg.1 | LOC1005058 |
| TC06000346.hg.1 | -2.25 | JUC06001343.hg.1 | MDC1-AS1 |
| TC06000346.hg.1 | -2.69 | PSR06003050.hg.1 | MDC1-AS1 |
| TC09000957.hg.1 | -2.25 | PSR09012710.hg.1 | KLHL9 |
| TC09000957.hg.1 | -3 | JUC09006933.hg.1 | KLHL9 |
| TC09000957.hg.1 | -3.07 | JUC09006935.hg.1 | KLHL9 |
| TC14002322.hg.1 | -2.25 | PSR14013370.hg.1 | C14orf37 |
| TC14002322.hg.1 | -2.96 | JUC14012092.hg.1 | C14orf37 |
| TC15000436.hg.1 | -2.25 | PSR15004064.hg.1 | LOC283663 |
| TC15000436.hg.1 | -2.5 | JUC15001973.hg.1 | LOC283663 |
| TC16001257.hg.1 | -2.25 | JUC16009966.hg.1 | PMFBP1 |
| TC16001257.hg.1 | -2.45 | PSR16017545.hg.1 | PMFBP1 |
| TC16001257.hg.1 | -4.52 | JUC16009961.hg.1 | PMFBP1 |
| TC19000521.hg.1 | -2.25 | JUC19004104.hg.1 | SIPA1L3 |
| TC19000521.hg.1 | -2.35 | JUC19004090.hg.1 | SIPA1L3 |
| TC19000521.hg.1 | -2.46 | PSR19006927.hg.1 | SIPA1L3 |
| TC20000946.hg.1 | -2.25 | PSR20013070.hg.1 | |
| TC20000946.hg.1 | -2.34 | PSR20013071.hg.1 | |
| TC20000946.hg.1 | -2.34 | JUC20006785.hg.1 | |
| TC20001004.hg.1 | -2.25 | JUC20007103.hg.1 | MIR1257, TAF |
| TC20001004.hg.1 | -2.31 | JUC20007113.hg.1 | MIR1257, TAF |
| TC20001004.hg.1 | -3.83 | PSR20013667.hg.1 | MIR1257, TAF |
| TC6_apd_hap1000 | -2.25 | JUC6_apd_hap1000126.hg.1 | |
| TC6_apd_hap1000 | -2.69 | PSR6_apd_hap1000300.hg.1 | |
| TC6_cox_hap2000 | -2.25 | JUC6_cox_hap2000273.hg.1 | |
| TC6_cox_hap2000 | -2.69 | PSR6_cox_hap2000579.hg.1 | |

| | | | |
|------------------|-------|---------------------------|-------------|
| TC6_dbb_hap3000 | -2.25 | JUC6_dbb_hap3000214.hg.1 | |
| TC6_dbb_hap3000 | -2.69 | PSR6_dbb_hap3000568.hg.1 | |
| TC6_mann_hap4000 | -2.25 | JUC6_mann_hap4000238.hg.1 | |
| TC6_mann_hap4000 | -2.69 | PSR6_mann_hap4000559.hg.1 | |
| TC6_mcf_hap5000 | -2.25 | JUC6_mcf_hap5000177.hg.1 | |
| TC6_mcf_hap5000 | -2.69 | PSR6_mcf_hap5000468.hg.1 | |
| TC6_ssto_hap7000 | -2.25 | JUC6_ssto_hap7000234.hg.1 | |
| TC6_ssto_hap7000 | -2.69 | PSR6_ssto_hap7000562.hg.1 | |
| TC03001881.hg.1 | -2.26 | PSR03033874.hg.1 | |
| TC03001881.hg.1 | -2.47 | JUC03016831.hg.1 | |
| TC03001881.hg.1 | -2.76 | JUC03016829.hg.1 | |
| TC04001508.hg.1 | -2.26 | JUC04011252.hg.1 | PRDM5 |
| TC04001508.hg.1 | -2.31 | PSR04021385.hg.1 | PRDM5 |
| TC04001508.hg.1 | -2.47 | JUC04011249.hg.1 | PRDM5 |
| TC04001508.hg.1 | -2.53 | PSR04021383.hg.1 | PRDM5 |
| TC05000151.hg.1 | -2.26 | JUC05000869.hg.1 | RAI14 |
| TC05000151.hg.1 | -2.53 | PSR05001589.hg.1 | RAI14 |
| TC05001687.hg.1 | -2.26 | JUC05011849.hg.1 | PGGT1B |
| TC05001687.hg.1 | -2.39 | JUC05011842.hg.1 | PGGT1B |
| TC05001687.hg.1 | -2.42 | PSR05022885.hg.1 | PGGT1B |
| TC07003335.hg.1 | -2.26 | JUC07021042.hg.1 | CLDN12 |
| TC07003335.hg.1 | -2.66 | PSR07007759.hg.1 | CLDN12 |
| TC08000545.hg.1 | -2.26 | JUC08003701.hg.1 | RIPK2 |
| TC08000545.hg.1 | -2.35 | PSR08007436.hg.1 | RIPK2 |
| TC12003264.hg.1 | -2.26 | PSR12013334.hg.1 | FAM101A, ZN |
| TC12003264.hg.1 | -2.63 | JUC12020249.hg.1 | FAM101A, ZN |
| TC14000417.hg.1 | -2.26 | PSR14005035.hg.1 | KIAA0247 |
| TC14000417.hg.1 | -2.45 | PSR14005037.hg.1 | KIAA0247 |
| TC14000417.hg.1 | -3.81 | JUC14002576.hg.1 | KIAA0247 |
| TC16000358.hg.1 | -2.26 | JUC16002843.hg.1 | RNF40 |
| TC16000358.hg.1 | -2.5 | PSR16005215.hg.1 | RNF40 |
| TC02002463.hg.1 | -2.27 | PSR02038702.hg.1 | WDSUB1 |
| TC02002463.hg.1 | -3.26 | JUC02020280.hg.1 | WDSUB1 |
| TC05000355.hg.1 | -2.27 | PSR05004914.hg.1 | RGNEF |
| TC05000355.hg.1 | -2.6 | JUC05002634.hg.1 | RGNEF |
| TC06000742.hg.1 | -2.27 | PSR06008914.hg.1 | |
| TC06000742.hg.1 | -2.34 | JUC06004101.hg.1 | |
| TC06000742.hg.1 | -2.83 | JUC06004097.hg.1 | |
| TC12000679.hg.1 | -2.27 | PSR12008931.hg.1 | TMTC2 |
| TC12000679.hg.1 | -3.54 | JUC12004804.hg.1 | TMTC2 |
| TC15000965.hg.1 | -2.27 | PSR15008942.hg.1 | |
| TC15000965.hg.1 | -2.52 | JUC15004734.hg.1 | |
| TC22000610.hg.1 | -2.27 | PSR22010733.hg.1 | TPST2 |
| TC22000610.hg.1 | -2.77 | JUC22004343.hg.1 | TPST2 |
| TC01003102.hg.1 | -2.28 | JUC01025812.hg.1 | |
| TC01003102.hg.1 | -2.53 | PSR01048114.hg.1 | |
| TC01003102.hg.1 | -2.57 | PSR01048110.hg.1 | |
| TC01003102.hg.1 | -3.51 | JUC01025818.hg.1 | |
| TC01003102.hg.1 | -3.54 | PSR01048116.hg.1 | |
| TC01003102.hg.1 | -4.01 | PSR01048115.hg.1 | |
| TC01003102.hg.1 | -4.71 | PSR01048117.hg.1 | |
| TC01003102.hg.1 | -5.39 | PSR01048118.hg.1 | |
| TC01003102.hg.1 | -6.61 | PSR01048119.hg.1 | |
| TC04001222.hg.1 | -2.28 | PSR04016726.hg.1 | HOPX |
| TC04001222.hg.1 | -2.29 | PSR04016720.hg.1 | HOPX |
| TC04001222.hg.1 | -2.41 | PSR04016719.hg.1 | HOPX |
| TC04001222.hg.1 | -2.56 | PSR04016727.hg.1 | HOPX |
| TC04001222.hg.1 | -2.57 | PSR04016730.hg.1 | HOPX |

| | | | |
|------------------|--------|--------------------------|-------------|
| TC04001222.hg.1 | -2.62 | PSR04016711.hg.1 | HOPX |
| TC04001222.hg.1 | -2.66 | PSR04016714.hg.1 | HOPX |
| TC04001222.hg.1 | -2.85 | PSR04016713.hg.1 | HOPX |
| TC04001222.hg.1 | -3 | PSR04016715.hg.1 | HOPX |
| TC04001222.hg.1 | -3.61 | JUC04008906.hg.1 | HOPX |
| TC04001222.hg.1 | -3.84 | PSR04016729.hg.1 | HOPX |
| TC04001222.hg.1 | -3.95 | JUC04008912.hg.1 | HOPX |
| TC04001222.hg.1 | -4 | JUC04008905.hg.1 | HOPX |
| TC04001222.hg.1 | -4.51 | PSR04016732.hg.1 | HOPX |
| TC05000345.hg.1 | -2.28 | PSR05004751.hg.1 | TMEM171 |
| TC05000345.hg.1 | -2.38 | PSR05004759.hg.1 | TMEM171 |
| TC05000345.hg.1 | -3.65 | PSR05004754.hg.1 | TMEM171 |
| TC05000345.hg.1 | -3.69 | JUC05002555.hg.1 | TMEM171 |
| TC05000569.hg.1 | -2.28 | PSR05007969.hg.1 | PRR16 |
| TC05000569.hg.1 | -2.51 | JUC05004343.hg.1 | PRR16 |
| TC09000351.hg.1 | -2.28 | JUC09002004.hg.1 | PCA3 |
| TC09000351.hg.1 | -2.35 | PSR09003740.hg.1 | PCA3 |
| TC10001771.hg.1 | -2.28 | PSR10023383.hg.1 | STK32C |
| TC10001771.hg.1 | -3.22 | PSR10023382.hg.1 | STK32C |
| TC10001771.hg.1 | -3.32 | PSR10023381.hg.1 | STK32C |
| TC10001771.hg.1 | -4.05 | JUC10013493.hg.1 | STK32C |
| TC11000238.hg.1 | -2.28 | JUC11001550.hg.1 | SAA1, RN5S3 |
| TC11000238.hg.1 | -2.47 | JUC11001551.hg.1 | SAA1, RN5S3 |
| TC11000238.hg.1 | -3.15 | JUC11001547.hg.1 | SAA1, RN5S3 |
| TC11000238.hg.1 | -8.01 | PSR11003124.hg.1 | SAA1, RN5S3 |
| TC11000238.hg.1 | -8.92 | PSR11003127.hg.1 | SAA1, RN5S3 |
| TC11000238.hg.1 | -12.42 | PSR11003128.hg.1 | SAA1, RN5S3 |
| TC11000238.hg.1 | -23.23 | PSR11003121.hg.1 | SAA1, RN5S3 |
| TC11001186.hg.1 | -2.28 | PSR11014949.hg.1 | KCNJ5 |
| TC11001186.hg.1 | -2.31 | JUC11008081.hg.1 | KCNJ5 |
| TC13000435.hg.1 | -2.28 | PSR13004931.hg.1 | CDC16 |
| TC13000435.hg.1 | -2.67 | JUC13002963.hg.1 | CDC16 |
| TC6_qbl_hap60000 | -2.28 | JUC6_qbl_hap6000242.hg.1 | |
| TC6_qbl_hap60000 | -2.94 | PSR6_qbl_hap6000565.hg.1 | |
| TC01000543.hg.1 | -2.29 | PSR01008632.hg.1 | TIE1 |
| TC01000543.hg.1 | -5.32 | JUC01004422.hg.1 | TIE1 |
| TC02001206.hg.1 | -2.29 | JUC02009951.hg.1 | NRP2 |
| TC02001206.hg.1 | -2.4 | PSR02018569.hg.1 | NRP2 |
| TC02001206.hg.1 | -2.51 | PSR02018544.hg.1 | NRP2 |
| TC02001206.hg.1 | -3.44 | JUC02009932.hg.1 | NRP2 |
| TC02001206.hg.1 | -4.22 | JUC02009953.hg.1 | NRP2 |
| TC02002674.hg.1 | -2.29 | PSR02043024.hg.1 | TRAK2 |
| TC02002674.hg.1 | -2.67 | JUC02022504.hg.1 | TRAK2 |
| TC06000985.hg.1 | -2.29 | JUC06005650.hg.1 | ENPP1 |
| TC06000985.hg.1 | -4.05 | PSR06011669.hg.1 | ENPP1 |
| TC02000104.hg.1 | -2.3 | JUC02000688.hg.1 | VSNL1 |
| TC02000104.hg.1 | -2.45 | PSR02001221.hg.1 | VSNL1 |
| TC02000104.hg.1 | -2.59 | JUC02000685.hg.1 | VSNL1 |
| TC02000104.hg.1 | -3.54 | PSR02001226.hg.1 | VSNL1 |
| TC02000104.hg.1 | -4.05 | PSR02001231.hg.1 | VSNL1 |
| TC02000104.hg.1 | -4.5 | JUC02000687.hg.1 | VSNL1 |
| TC02000104.hg.1 | -16.89 | JUC02000686.hg.1 | VSNL1 |
| TC02000104.hg.1 | -18.62 | PSR02001222.hg.1 | VSNL1 |
| TC02000104.hg.1 | -19.38 | PSR02001216.hg.1 | VSNL1 |
| TC02000104.hg.1 | -20.43 | JUC02000690.hg.1 | VSNL1 |
| TC02000104.hg.1 | -23.92 | PSR02001224.hg.1 | VSNL1 |
| TC02000104.hg.1 | -24.72 | JUC02000689.hg.1 | VSNL1 |
| TC02000104.hg.1 | -27.43 | PSR02001217.hg.1 | VSNL1 |

| | | | |
|------------------|--------|-------------------|------------|
| TC02000104.hg.1 | -37.84 | PSR02001234.hg.1 | VSNL1 |
| TC06000416.hg.1 | -2.3 | JUC06001891.hg.1 | HCG25 |
| TC06000416.hg.1 | -2.32 | JUC06001892.hg.1 | HCG25 |
| TC06000416.hg.1 | -3.51 | PSR06004891.hg.1 | HCG25 |
| TC06004148.hg.1 | -2.3 | PSR06016606.hg.1 | OR11A1 |
| TC06004148.hg.1 | -2.57 | JUC06021942.hg.1 | OR11A1 |
| TC07003390.hg.1 | -2.3 | PSR07003024.hg.1 | ZNRF2 |
| TC07003390.hg.1 | -2.5 | JUC07021780.hg.1 | ZNRF2 |
| TC07003390.hg.1 | -3.09 | PSR07003019.hg.1 | ZNRF2 |
| TC08002612.hg.1 | -2.3 | PSR08013467.hg.1 | ENTPD4 |
| TC08002612.hg.1 | -2.59 | PSR08013458.hg.1 | ENTPD4 |
| TC08002612.hg.1 | -2.71 | PSR08013459.hg.1 | ENTPD4 |
| TC08002612.hg.1 | -3.23 | JUC08015180.hg.1 | ENTPD4 |
| TC17000357.hg.1 | -2.3 | PSR17004475.hg.1 | ADAP2 |
| TC17000357.hg.1 | -2.54 | JUC17002533.hg.1 | ADAP2 |
| TC6_cox_hap2000 | -2.3 | JUC6_cox_hap20007 | HCG25 |
| TC6_cox_hap2000 | -2.32 | JUC6_cox_hap20007 | HCG25 |
| TC6_cox_hap2000 | -3.51 | PSR6_cox_hap20019 | HCG25 |
| TC6_cox_hap2000 | -2.3 | PSR6_cox_hap20020 | OR11A1 |
| TC6_cox_hap2000 | -2.57 | JUC6_cox_hap20020 | OR11A1 |
| TC6_dbb_hap3000 | -2.3 | JUC6_dbb_hap30006 | HCG25 |
| TC6_dbb_hap3000 | -2.32 | JUC6_dbb_hap30006 | HCG25 |
| TC6_dbb_hap3000 | -3.51 | PSR6_dbb_hap30019 | HCG25 |
| TC6_mann_hap400 | -2.3 | JUC6_mann_hap400 | HCG25 |
| TC6_mann_hap400 | -2.32 | JUC6_mann_hap400 | HCG25 |
| TC6_mann_hap400 | -3.51 | PSR6_mann_hap400 | HCG25 |
| TC6_mann_hap400 | -2.3 | PSR6_mann_hap400 | OR11A1 |
| TC6_mann_hap400 | -2.57 | JUC6_mann_hap400 | OR11A1 |
| TC6_mcf_hap5000 | -2.3 | JUC6_mcf_hap50005 | HCG25 |
| TC6_mcf_hap5000 | -2.32 | JUC6_mcf_hap50005 | HCG25 |
| TC6_mcf_hap5000 | -3.51 | PSR6_mcf_hap50017 | HCG25 |
| TC6_mcf_hap5000 | -2.3 | PSR6_mcf_hap50018 | OR11A1 |
| TC6_mcf_hap5000 | -2.57 | JUC6_mcf_hap50019 | OR11A1 |
| TC6_qbl_hap6000 | -2.3 | JUC6_qbl_hap60006 | HCG25 |
| TC6_qbl_hap6000 | -2.32 | JUC6_qbl_hap60006 | HCG25 |
| TC6_qbl_hap6000 | -3.51 | PSR6_qbl_hap60019 | HCG25 |
| TC6_ssto_hap7000 | -2.3 | JUC6_ssto_hap7000 | HCG25 |
| TC6_ssto_hap7000 | -2.32 | JUC6_ssto_hap7000 | HCG25 |
| TC6_ssto_hap7000 | -3.51 | PSR6_ssto_hap7001 | HCG25 |
| TC01003809.hg.1 | -2.31 | PSR01058204.hg.1 | BATF3 |
| TC01003809.hg.1 | -2.68 | PSR01058205.hg.1 | BATF3 |
| TC01003809.hg.1 | -3.18 | PSR01058200.hg.1 | BATF3 |
| TC01003809.hg.1 | -4.36 | JUC01030426.hg.1 | BATF3 |
| TC07001534.hg.1 | -2.31 | JUC07011420.hg.1 | HIP1 |
| TC07001534.hg.1 | -2.76 | PSR07023076.hg.1 | HIP1 |
| TC07003327.hg.1 | -2.31 | PSR07005497.hg.1 | KCTD7, RAB |
| TC07003327.hg.1 | -2.42 | JUC07020912.hg.1 | KCTD7, RAB |
| TC09000276.hg.1 | -2.31 | PSR09002975.hg.1 | PTGER4P2 |
| TC09000276.hg.1 | -2.37 | JUC09001550.hg.1 | PTGER4P2 |
| TC10001705.hg.1 | -2.31 | PSR10022494.hg.1 | TIAL1 |
| TC10001705.hg.1 | -2.68 | JUC10013045.hg.1 | TIAL1 |
| TC15000614.hg.1 | -2.31 | JUC15002467.hg.1 | ZWILCH |
| TC15000614.hg.1 | -3.33 | PSR15005035.hg.1 | ZWILCH |
| TC16000744.hg.1 | -2.31 | PSR16010857.hg.1 | C1QTNF8 |
| TC16000744.hg.1 | -5.08 | JUC16006054.hg.1 | C1QTNF8 |
| TC16001190.hg.1 | -2.31 | PSR16016558.hg.1 | ATP6V0D1 |
| TC16001190.hg.1 | -2.72 | JUC16009330.hg.1 | ATP6V0D1 |
| TC16001190.hg.1 | -2.8 | PSR16016557.hg.1 | ATP6V0D1 |

| | | | |
|------------------|--------|-------------------|-------------|
| TC17000714.hg.1 | -2.31 | JUC17005072.hg.1 | RAD51C |
| TC17000714.hg.1 | -2.55 | PSR17009305.hg.1 | RAD51C |
| TC17000714.hg.1 | -2.81 | JUC17005068.hg.1 | RAD51C |
| TC20000162.hg.1 | -2.31 | JUC20001083.hg.1 | SYNDIG1 |
| TC20000162.hg.1 | -4.63 | PSR20002022.hg.1 | SYNDIG1 |
| TC20000162.hg.1 | -6.18 | PSR20002017.hg.1 | SYNDIG1 |
| TC02002646.hg.1 | -2.32 | PSR02042481.hg.1 | ANKRD44-IT |
| TC02002646.hg.1 | -2.42 | JUC02022228.hg.1 | ANKRD44-IT |
| TC06000954.hg.1 | -2.32 | JUC06005308.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -2.67 | JUC06005294.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -3.44 | JUC06005309.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -4.06 | PSR06011103.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -4.45 | PSR06011119.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -5.77 | PSR06011100.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -6.68 | PSR06011110.hg.1 | NKAIN2 |
| TC06000954.hg.1 | -7.01 | PSR06011102.hg.1 | NKAIN2 |
| TC11001908.hg.1 | -2.32 | PSR11022516.hg.1 | NRXN2 |
| TC11001908.hg.1 | -2.42 | JUC11011882.hg.1 | NRXN2 |
| TC11001908.hg.1 | -2.57 | PSR11022523.hg.1 | NRXN2 |
| TC11001908.hg.1 | -2.86 | JUC11011860.hg.1 | NRXN2 |
| TC11001908.hg.1 | -4.05 | JUC11011864.hg.1 | NRXN2 |
| TC11001908.hg.1 | -6.1 | JUC11011868.hg.1 | NRXN2 |
| TC11001908.hg.1 | -13.17 | JUC11011874.hg.1 | NRXN2 |
| TC20000284.hg.1 | -2.32 | JUC20002275.hg.1 | SNORA39, SI |
| TC20000284.hg.1 | -3.31 | PSR20004050.hg.1 | SNORA39, SI |
| TC6_ssto_hap7000 | -2.32 | JUC6_ssto_hap7000 | HLA-DPB2 |
| TC6_ssto_hap7000 | -3.24 | PSR6_ssto_hap7001 | HLA-DPB2 |
| TC6_ssto_hap7000 | -3.79 | JUC6_ssto_hap7000 | HLA-DPB2 |
| TC6_ssto_hap7000 | -19.46 | JUC6_ssto_hap7000 | HLA-DPB2 |
| TC01003566.hg.1 | -2.33 | PSR01055254.hg.1 | ABL2 |
| TC01003566.hg.1 | -3.72 | JUC01028859.hg.1 | ABL2 |
| TC02000315.hg.1 | -2.33 | JUC02002535.hg.1 | SPTBN1 |
| TC02000315.hg.1 | -2.56 | PSR02004836.hg.1 | SPTBN1 |
| TC02000315.hg.1 | -6.16 | PSR02004805.hg.1 | SPTBN1 |
| TC06000968.hg.1 | -2.33 | PSR06011324.hg.1 | RSPO3 |
| TC06000968.hg.1 | -2.58 | PSR06011321.hg.1 | RSPO3 |
| TC06000968.hg.1 | -2.65 | PSR06011322.hg.1 | RSPO3 |
| TC06000968.hg.1 | -3.51 | PSR06011323.hg.1 | RSPO3 |
| TC06000968.hg.1 | -4.15 | JUC06005427.hg.1 | RSPO3 |
| TC11000981.hg.1 | -2.33 | PSR11012279.hg.1 | DDX10 |
| TC11000981.hg.1 | -3.84 | JUC11006601.hg.1 | DDX10 |
| TC14000583.hg.1 | -2.33 | JUC14003696.hg.1 | IFI27L1 |
| TC14000583.hg.1 | -2.48 | PSR14007187.hg.1 | IFI27L1 |
| TC14000583.hg.1 | -3.2 | JUC14003699.hg.1 | IFI27L1 |
| TC14001178.hg.1 | -2.33 | PSR14013437.hg.1 | TIMM9 |
| TC14001178.hg.1 | -2.37 | JUC14006818.hg.1 | TIMM9 |
| TC14001178.hg.1 | -2.39 | PSR14013432.hg.1 | TIMM9 |
| TC14001178.hg.1 | -3.6 | JUC14006822.hg.1 | TIMM9 |
| TC15000030.hg.1 | -2.33 | PSR15000238.hg.1 | GOLGA8IP |
| TC15000030.hg.1 | -2.53 | JUC15000148.hg.1 | GOLGA8IP |
| TC15000030.hg.1 | -2.68 | JUC15000152.hg.1 | GOLGA8IP |
| TC16001165.hg.1 | -2.33 | PSR16016193.hg.1 | CDH11 |
| TC16001165.hg.1 | -2.45 | PSR16016192.hg.1 | CDH11 |
| TC16001165.hg.1 | -3.11 | PSR16016189.hg.1 | CDH11 |
| TC16001165.hg.1 | -4.06 | JUC16009120.hg.1 | CDH11 |
| TC17001887.hg.1 | -2.33 | PSR17025391.hg.1 | TRIM47 |
| TC17001887.hg.1 | -3.19 | PSR17025392.hg.1 | TRIM47 |
| TC17001887.hg.1 | -3.45 | JUC17014304.hg.1 | TRIM47 |

| | | | |
|---------------------------|-------|----------------------------|------------|
| TC09000190.hg.1 | -2.34 | PSR09002113.hg.1 | CCDC107 |
| TC09000190.hg.1 | -2.5 | JUC09001122.hg.1 | CCDC107 |
| TC17001243.hg.1 | -2.34 | JUC17009484.hg.1 | MFAP4 |
| TC17001243.hg.1 | -2.67 | PSR17016701.hg.1 | MFAP4 |
| TC17001243.hg.1 | -2.88 | PSR17016704.hg.1 | MFAP4 |
| TC20000246.hg.1 | -2.34 | PSR20003242.hg.1 | MYH7B |
| TC20000246.hg.1 | -3.62 | JUC20001828.hg.1 | MYH7B |
| TC03000009.hg.1 | -2.35 | JUC03000129.hg.1 | TRNT1 |
| TC03000009.hg.1 | -2.43 | PSR03000218.hg.1 | TRNT1 |
| TC12000620.hg.1 | -2.35 | PSR12008232.hg.1 | CNOT2 |
| TC12000620.hg.1 | -3.07 | JUC12004344.hg.1 | CNOT2 |
| TC12000620.hg.1 | -3.73 | JUC12004336.hg.1 | CNOT2 |
| TC14000220.hg.1 | -2.35 | PSR14002361.hg.1 | FAM177A1 |
| TC14000220.hg.1 | -2.96 | JUC14001085.hg.1 | FAM177A1 |
| TC15001093.hg.1 | -2.35 | PSR15009998.hg.1 | |
| TC15001093.hg.1 | -3.02 | JUC15005291.hg.1 | |
| TC17000011.hg.1 | -2.35 | PSR17000063.hg.1 | TUSC5 |
| TC17000011.hg.1 | -3.99 | JUC17000026.hg.1 | TUSC5 |
| TC19001579.hg.1 | -2.35 | JUC19012329.hg.1 | PSG7 |
| TC19001579.hg.1 | -3.43 | PSR19021624.hg.1 | PSG7 |
| TC19001579.hg.1 | -6.22 | JUC19012324.hg.1 | PSG7 |
| TC19001579.hg.1 | -7.99 | JUC19012327.hg.1 | PSG7 |
| TC20000026.hg.1 | -2.35 | JUC20000194.hg.1 | SNORD56, S |
| TC20000026.hg.1 | -2.63 | PSR20000381.hg.1 | SNORD56, S |
| TC20001756.hg.1 | -2.35 | JUC20010073.hg.1 | ANKRD5 |
| TC20001756.hg.1 | -2.45 | PSR20001149.hg.1 | ANKRD5 |
| TC20001756.hg.1 | -3.77 | PSR20001151.hg.1 | ANKRD5 |
| TC21000189.hg.1 | -2.35 | JUC21001009.hg.1 | MX1 |
| TC21000189.hg.1 | -2.4 | PSR21001878.hg.1 | MX1 |
| TC21000189.hg.1 | -2.41 | PSR21001921.hg.1 | MX1 |
| TC21000189.hg.1 | -2.67 | PSR21001881.hg.1 | MX1 |
| TC21000189.hg.1 | -2.85 | JUC21001003.hg.1 | MX1 |
| TC22000902.hg.1 | -2.35 | JUC22006335.hg.1 | BRD1 |
| TC22000902.hg.1 | -2.62 | PSR22015076.hg.1 | BRD1 |
| TC22000902.hg.1 | -2.88 | JUC22006332.hg.1 | BRD1 |
| TC22000902.hg.1 | -5.95 | PSR22015067.hg.1 | BRD1 |
| TC02002614.hg.1 | -2.36 | PSR02041852.hg.1 | SLC40A1 |
| TC02002614.hg.1 | -3.5 | JUC02021820.hg.1 | SLC40A1 |
| TC02002614.hg.1 | -5.32 | PSR02041846.hg.1 | SLC40A1 |
| TC03001806.hg.1 | -2.36 | PSR03032790.hg.1 | KY |
| TC03001806.hg.1 | -2.48 | JUC03016235.hg.1 | KY |
| TC05002090.hg.1 | -2.36 | JUC05014610.hg.1 | LOC643201 |
| TC05002090.hg.1 | -2.54 | PSR05028618.hg.1 | LOC643201 |
| TC6_mann_hap40000206.hg.1 | -2.36 | PSR6_mann_hap40000206.hg.1 | |
| TC6_mann_hap40000088.hg.1 | -3.34 | JUC6_mann_hap40000088.hg.1 | |
| TC04000248.hg.1 | -2.37 | PSR04003612.hg.1 | NSUN7 |
| TC04000248.hg.1 | -2.64 | JUC04001776.hg.1 | NSUN7 |
| TC12000263.hg.1 | -2.37 | PSR12003166.hg.1 | STK38L |
| TC12000263.hg.1 | -3.27 | JUC12001568.hg.1 | STK38L |
| TC15001482.hg.1 | -2.37 | JUC15007526.hg.1 | ALDH1A2 |
| TC15001482.hg.1 | -2.76 | PSR15013973.hg.1 | ALDH1A2 |
| TC15001837.hg.1 | -2.37 | JUC15009759.hg.1 | ANPEP |
| TC15001837.hg.1 | -2.65 | PSR15017842.hg.1 | ANPEP |
| TC15001837.hg.1 | -3.28 | JUC15009755.hg.1 | ANPEP |
| TC15001837.hg.1 | -3.52 | PSR15017831.hg.1 | ANPEP |
| TC16000448.hg.1 | -2.37 | JUC16003476.hg.1 | RBL2 |
| TC16000448.hg.1 | -2.58 | PSR16006228.hg.1 | RBL2 |
| TC17001932.hg.1 | -2.37 | PSR17026317.hg.1 | TBC1D16 |

| | | | |
|------------------|-------|-------------------|-------------|
| TC17001932.hg.1 | -2.44 | JUC17014823.hg.1 | TBC1D16 |
| TC01000973.hg.1 | -2.38 | PSR01015521.hg.1 | RP11-165H2C |
| TC01000973.hg.1 | -15.2 | JUC01008110.hg.1 | RP11-165H2C |
| TC01001177.hg.1 | -2.38 | JUC01009927.hg.1 | VPS45 |
| TC01001177.hg.1 | -2.63 | PSR01018067.hg.1 | VPS45 |
| TC01003211.hg.1 | -2.38 | PSR01049286.hg.1 | CTSK |
| TC01003211.hg.1 | -2.38 | PSR01049291.hg.1 | CTSK |
| TC01003211.hg.1 | -2.45 | JUC01026196.hg.1 | CTSK |
| TC01003211.hg.1 | -2.65 | JUC01026195.hg.1 | CTSK |
| TC01003211.hg.1 | -3.06 | PSR01049289.hg.1 | CTSK |
| TC01003211.hg.1 | -5.13 | JUC01026188.hg.1 | CTSK |
| TC06000541.hg.1 | -2.38 | JUC06002448.hg.1 | PIM1 |
| TC06000541.hg.1 | -2.95 | PSR06005927.hg.1 | PIM1 |
| TC12001587.hg.1 | -2.38 | JUC12011696.hg.1 | MMP19 |
| TC12001587.hg.1 | -2.5 | JUC12011687.hg.1 | MMP19 |
| TC12001587.hg.1 | -2.76 | PSR12021091.hg.1 | MMP19 |
| TC12001587.hg.1 | -2.86 | PSR12021081.hg.1 | MMP19 |
| TC12001587.hg.1 | -2.89 | JUC12011689.hg.1 | MMP19 |
| TC12001587.hg.1 | -2.99 | PSR12021075.hg.1 | MMP19 |
| TC12001587.hg.1 | -3.16 | PSR12021076.hg.1 | MMP19 |
| TC12001587.hg.1 | -3.63 | PSR12021085.hg.1 | MMP19 |
| TC12001587.hg.1 | -3.73 | JUC12011692.hg.1 | MMP19 |
| TC12001587.hg.1 | -4.18 | PSR12021082.hg.1 | MMP19 |
| TC12001587.hg.1 | -4.66 | JUC12011688.hg.1 | MMP19 |
| TC15001691.hg.1 | -2.38 | JUC15008962.hg.1 | PEAK1 |
| TC15001691.hg.1 | -2.47 | PSR15016470.hg.1 | PEAK1 |
| TC15001691.hg.1 | -2.48 | JUC15008959.hg.1 | PEAK1 |
| TC16000473.hg.1 | -2.38 | JUC16003647.hg.1 | MT1F |
| TC16000473.hg.1 | -2.83 | PSR16006518.hg.1 | MT1F |
| TC16000473.hg.1 | -3.07 | PSR16006515.hg.1 | MT1F |
| TC16000473.hg.1 | -3.21 | JUC16003648.hg.1 | MT1F |
| TC16000473.hg.1 | -3.98 | JUC16003646.hg.1 | MT1F |
| TC6_ssto_hap700C | -2.38 | PSR6_ssto_hap7001 | OR11A1 |
| TC6_ssto_hap700C | -2.67 | JUC6_ssto_hap7001 | OR11A1 |
| TC03000063.hg.1 | -2.39 | JUC03000722.hg.1 | SLC6A1 |
| TC03000063.hg.1 | -2.76 | JUC03000717.hg.1 | SLC6A1 |
| TC03000063.hg.1 | -2.84 | PSR03001378.hg.1 | SLC6A1 |
| TC04001598.hg.1 | -2.39 | PSR04022251.hg.1 | LOC1005076 |
| TC04001598.hg.1 | -3.55 | JUC04011731.hg.1 | LOC1005076 |
| TC10001724.hg.1 | -2.39 | PSR10022845.hg.1 | |
| TC10001724.hg.1 | -3.82 | PSR10022847.hg.1 | |
| TC10001724.hg.1 | -4.18 | JUC10013214.hg.1 | |
| TC03002184.hg.1 | -2.4 | JUC03019129.hg.1 | IQCG |
| TC03002184.hg.1 | -2.53 | PSR03038614.hg.1 | IQCG |
| TC03002184.hg.1 | -4.17 | PSR03038624.hg.1 | IQCG |
| TC03003343.hg.1 | -2.4 | PSR03000888.hg.1 | ARPC4 |
| TC03003343.hg.1 | -3.85 | JUC03023525.hg.1 | ARPC4 |
| TC01006320.hg.1 | -2.41 | JUC01043951.hg.1 | PPCS |
| TC01006320.hg.1 | -3.09 | PSR01008251.hg.1 | PPCS |
| TC02001982.hg.1 | -2.41 | PSR02031606.hg.1 | FBXO41 |
| TC02001982.hg.1 | -3.18 | JUC02016505.hg.1 | FBXO41 |
| TC02001982.hg.1 | -3.26 | PSR02031625.hg.1 | FBXO41 |
| TC02001982.hg.1 | -4.55 | PSR02031624.hg.1 | FBXO41 |
| TC02001982.hg.1 | -7.05 | JUC02016495.hg.1 | FBXO41 |
| TC05000917.hg.1 | -2.41 | JUC05006876.hg.1 | WWC1 |
| TC05000917.hg.1 | -2.93 | PSR05013285.hg.1 | WWC1 |
| TC08000137.hg.1 | -2.41 | PSR08001364.hg.1 | NAT1 |
| TC08000137.hg.1 | -2.78 | PSR08001367.hg.1 | NAT1 |

| | | | |
|-----------------|--------|------------------|--------------|
| TC08000137.hg.1 | -3.36 | JUC08000740.hg.1 | NAT1 |
| TC09000109.hg.1 | -2.41 | PSR09001304.hg.1 | DMRTA1 |
| TC09000109.hg.1 | -5.45 | JUC09000688.hg.1 | DMRTA1 |
| TC01000130.hg.1 | -2.42 | PSR01002089.hg.1 | APITD1-COR |
| TC01000130.hg.1 | -3.02 | JUC01001131.hg.1 | APITD1-COR |
| TC03001733.hg.1 | -2.42 | JUC03015701.hg.1 | ALDH1L1 |
| TC03001733.hg.1 | -3.95 | PSR03031573.hg.1 | ALDH1L1 |
| TC11000223.hg.1 | -2.42 | JUC11001431.hg.1 | C11orf58 |
| TC11000223.hg.1 | -2.56 | PSR11002940.hg.1 | C11orf58 |
| TC14000306.hg.1 | -2.42 | JUC14001538.hg.1 | PTGER2 |
| TC14000306.hg.1 | -2.95 | PSR14003219.hg.1 | PTGER2 |
| TC03001434.hg.1 | -2.43 | PSR03025915.hg.1 | C3orf18 |
| TC03001434.hg.1 | -2.63 | PSR03025911.hg.1 | C3orf18 |
| TC03001434.hg.1 | -2.65 | JUC03012678.hg.1 | C3orf18 |
| TC07001630.hg.1 | -2.43 | PSR07024788.hg.1 | ASNS |
| TC07001630.hg.1 | -2.64 | PSR07024780.hg.1 | ASNS |
| TC07001630.hg.1 | -2.69 | PSR07024779.hg.1 | ASNS |
| TC07001630.hg.1 | -2.69 | JUC07012309.hg.1 | ASNS |
| TC07001630.hg.1 | -2.74 | PSR07024778.hg.1 | ASNS |
| TC07001630.hg.1 | -2.8 | PSR07024799.hg.1 | ASNS |
| TC07001630.hg.1 | -4.48 | PSR07024798.hg.1 | ASNS |
| TC19001581.hg.1 | -2.43 | PSR19021653.hg.1 | PSG2 |
| TC19001581.hg.1 | -2.81 | JUC19012343.hg.1 | PSG2 |
| TC19001581.hg.1 | -3.77 | JUC19012342.hg.1 | PSG2 |
| TC01003963.hg.1 | -2.44 | PSR01060045.hg.1 | MIR1182, FAM |
| TC01003963.hg.1 | -6.42 | JUC01031425.hg.1 | MIR1182, FAM |
| TC01003017.hg.1 | -2.45 | PSR01047098.hg.1 | TSPAN2 |
| TC01003017.hg.1 | -3.56 | PSR01047105.hg.1 | TSPAN2 |
| TC01003017.hg.1 | -3.68 | JUC01025251.hg.1 | TSPAN2 |
| TC01003546.hg.1 | -2.45 | PSR01054978.hg.1 | KIAA0040 |
| TC01003546.hg.1 | -4.49 | PSR01054979.hg.1 | KIAA0040 |
| TC01003546.hg.1 | -8.91 | JUC01028670.hg.1 | KIAA0040 |
| TC01003546.hg.1 | -10.13 | PSR01054976.hg.1 | KIAA0040 |
| TC01003546.hg.1 | -13.31 | JUC01028669.hg.1 | KIAA0040 |
| TC0X000493.hg.1 | -2.45 | PSR0X006557.hg.1 | BEX4 |
| TC0X000493.hg.1 | -2.46 | PSR0X006556.hg.1 | BEX4 |
| TC0X000493.hg.1 | -2.88 | JUC0X003235.hg.1 | BEX4 |
| TC0X000493.hg.1 | -2.99 | JUC0X003233.hg.1 | BEX4 |
| TC0X000493.hg.1 | -3.28 | PSR0X006552.hg.1 | BEX4 |
| TC0X000493.hg.1 | -3.32 | PSR0X006554.hg.1 | BEX4 |
| TC0X000493.hg.1 | -3.6 | JUC0X003234.hg.1 | BEX4 |
| TC17000582.hg.1 | -2.45 | PSR17007132.hg.1 | FMNL1 |
| TC17000582.hg.1 | -2.87 | JUC17004061.hg.1 | FMNL1 |
| TC03000378.hg.1 | -2.46 | JUC03004069.hg.1 | PXK |
| TC03000378.hg.1 | -3.31 | PSR03008265.hg.1 | PXK |
| TC11000325.hg.1 | -2.46 | PSR11004174.hg.1 | NAT10 |
| TC11000325.hg.1 | -3.44 | JUC11002202.hg.1 | NAT10 |
| TC12000095.hg.1 | -2.46 | PSR12001152.hg.1 | USP5 |
| TC12000095.hg.1 | -2.76 | JUC12000595.hg.1 | USP5 |
| TC03000410.hg.1 | -2.47 | PSR03008639.hg.1 | |
| TC03000410.hg.1 | -3.49 | JUC03004313.hg.1 | |
| TC15000816.hg.1 | -2.47 | PSR15007433.hg.1 | ZSCAN2 |
| TC15000816.hg.1 | -3.14 | JUC15003876.hg.1 | ZSCAN2 |
| TC15000816.hg.1 | -3.16 | JUC15003873.hg.1 | ZSCAN2 |
| TC22000050.hg.1 | -2.47 | JUC22000253.hg.1 | COMT, MIR47 |
| TC22000050.hg.1 | -3.63 | PSR22000517.hg.1 | COMT, MIR47 |
| TC02004930.hg.1 | -2.49 | JUC02031428.hg.1 | MRPS5 |
| TC02004930.hg.1 | -2.51 | PSR02033741.hg.1 | MRPS5 |

| | | | |
|-----------------|-------|------------------|-------------|
| TC02004930.hg.1 | -2.85 | PSR02033742.hg.1 | MRPS5 |
| TC05000960.hg.1 | -2.49 | JUC05007242.hg.1 | |
| TC05000960.hg.1 | -7.23 | PSR05013967.hg.1 | |
| TC05001601.hg.1 | -2.49 | PSR05021763.hg.1 | KIAA0825 |
| TC05001601.hg.1 | -2.62 | JUC05011193.hg.1 | KIAA0825 |
| TC05001601.hg.1 | -2.76 | JUC05011186.hg.1 | KIAA0825 |
| TC06000409.hg.1 | -2.49 | JUC06001860.hg.1 | HLA-DPB2 |
| TC06000409.hg.1 | -2.97 | PSR06004813.hg.1 | HLA-DPB2 |
| TC06000409.hg.1 | -3.91 | JUC06001859.hg.1 | HLA-DPB2 |
| TC10001349.hg.1 | -2.49 | PSR10017115.hg.1 | SLC25A16 |
| TC10001349.hg.1 | -2.64 | JUC10009988.hg.1 | SLC25A16 |
| TC10001349.hg.1 | -3.92 | JUC10009987.hg.1 | SLC25A16 |
| TC22001503.hg.1 | -2.49 | PSR22015781.hg.1 | CHKB |
| TC22001503.hg.1 | -2.5 | JUC22009887.hg.1 | CHKB |
| TC03000953.hg.1 | -2.5 | PSR03016423.hg.1 | MFN1 |
| TC03000953.hg.1 | -2.8 | JUC03008369.hg.1 | MFN1 |
| TC11001528.hg.1 | -2.5 | JUC11010200.hg.1 | PAX6 |
| TC11001528.hg.1 | -2.6 | PSR11019137.hg.1 | PAX6 |
| TC09000537.hg.1 | -2.51 | PSR09005921.hg.1 | FKTN |
| TC09000537.hg.1 | -2.65 | JUC09003290.hg.1 | FKTN |
| TC09000537.hg.1 | -2.84 | JUC09003271.hg.1 | FKTN |
| TC01001214.hg.1 | -2.53 | JUC01010310.hg.1 | SNX27 |
| TC01001214.hg.1 | -3.37 | PSR01018865.hg.1 | SNX27 |
| TC01001214.hg.1 | -5.97 | PSR01018853.hg.1 | SNX27 |
| TCUn_gl00021900 | -2.53 | JUCUn_gl00021900 | LOC283788 |
| TCUn_gl00021900 | -3.71 | PSRUn_gl00021900 | LOC283788 |
| TC06002322.hg.1 | -2.54 | JUC06014612.hg.1 | FRMD1 |
| TC06002322.hg.1 | -2.6 | PSR06029167.hg.1 | FRMD1 |
| TC06002322.hg.1 | -5.32 | JUC06014623.hg.1 | FRMD1 |
| TC01002652.hg.1 | -2.55 | PSR01041538.hg.1 | NRD1, MIR76 |
| TC01002652.hg.1 | -2.86 | JUC01022197.hg.1 | NRD1, MIR76 |
| TC01002652.hg.1 | -3 | JUC01022183.hg.1 | NRD1, MIR76 |
| TC20000821.hg.1 | -2.55 | PSR20011270.hg.1 | SAMHD1 |
| TC20000821.hg.1 | -3.2 | JUC20005829.hg.1 | SAMHD1 |
| TC07000768.hg.1 | -2.57 | PSR07012175.hg.1 | LEP |
| TC07000768.hg.1 | -3.27 | JUC07005735.hg.1 | LEP |
| TC07003302.hg.1 | -2.57 | JUC07020526.hg.1 | THAP5 |
| TC07003302.hg.1 | -3.85 | PSR07027417.hg.1 | THAP5 |
| TC01001603.hg.1 | -2.59 | JUC01013318.hg.1 | PRG4 |
| TC01001603.hg.1 | -3.09 | PSR01024891.hg.1 | PRG4 |
| TC04000439.hg.1 | -2.6 | PSR04006302.hg.1 | LOC1005057 |
| TC04000439.hg.1 | -4.18 | JUC04003211.hg.1 | LOC1005057 |
| TC09000202.hg.1 | -2.6 | JUC09001248.hg.1 | GLIPR2, LOC |
| TC09000202.hg.1 | -3.15 | PSR09002318.hg.1 | GLIPR2, LOC |
| TC09000202.hg.1 | -3.22 | JUC09001253.hg.1 | GLIPR2, LOC |
| TC09000202.hg.1 | -3.62 | PSR09002315.hg.1 | GLIPR2, LOC |
| TC19001511.hg.1 | -2.6 | JUC19011845.hg.1 | FBXO27 |
| TC19001511.hg.1 | -2.78 | PSR19020654.hg.1 | FBXO27 |
| TC06001050.hg.1 | -2.61 | JUC06006034.hg.1 | AIG1 |
| TC06001050.hg.1 | -2.69 | PSR06012300.hg.1 | AIG1 |
| TC06001050.hg.1 | -2.83 | PSR06012310.hg.1 | AIG1 |
| TC06001050.hg.1 | -2.84 | PSR06012308.hg.1 | AIG1 |
| TC06001050.hg.1 | -3.2 | PSR06012307.hg.1 | AIG1 |
| TC06001050.hg.1 | -3.44 | PSR06012311.hg.1 | AIG1 |
| TC02000731.hg.1 | -2.62 | JUC02006012.hg.1 | WASH2P |
| TC02000731.hg.1 | -3.97 | PSR02011344.hg.1 | WASH2P |
| TC07001924.hg.1 | -2.63 | JUC07014834.hg.1 | DENND2A |
| TC07001924.hg.1 | -2.75 | PSR07029915.hg.1 | DENND2A |

| | | | |
|-----------------|--------|------------------|------------|
| TC07001924.hg.1 | -3.12 | PSR07029914.hg.1 | DENND2A |
| TC07001924.hg.1 | -4.65 | JUC07014824.hg.1 | DENND2A |
| TC09000541.hg.1 | -2.64 | JUC09003312.hg.1 | |
| TC09000541.hg.1 | -2.67 | PSR09005983.hg.1 | |
| TC09000541.hg.1 | -3.64 | PSR09005981.hg.1 | |
| TC09000541.hg.1 | -4 | PSR09005982.hg.1 | |
| TC01001443.hg.1 | -2.65 | PSR01022482.hg.1 | MGST3, LOC |
| TC01001443.hg.1 | -5.14 | JUC01011850.hg.1 | MGST3, LOC |
| TC03000149.hg.1 | -2.65 | JUC03001444.hg.1 | TGFBR2 |
| TC03000149.hg.1 | -2.68 | PSR03002706.hg.1 | TGFBR2 |
| TC03000149.hg.1 | -2.89 | PSR03002712.hg.1 | TGFBR2 |
| TC08001462.hg.1 | -2.65 | PSR08018921.hg.1 | NIPAL2 |
| TC08001462.hg.1 | -3.1 | JUC08009630.hg.1 | NIPAL2 |
| TC02002049.hg.1 | -2.66 | JUC02016916.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -2.7 | PSR02032801.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -3.32 | PSR02032784.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -3.42 | JUC02016918.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -3.5 | PSR02032792.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -3.6 | PSR02032787.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -3.89 | JUC02016910.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -4.12 | PSR02032785.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -5.44 | PSR02032788.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -6.45 | PSR02032791.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -7.39 | PSR02032804.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -7.62 | JUC02016906.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -8.15 | PSR02032789.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -8.38 | PSR02032772.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -8.48 | PSR02032798.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -8.8 | PSR02032809.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -9.22 | PSR02032803.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -9.24 | PSR02032780.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -9.72 | PSR02032805.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -9.93 | PSR02032799.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -9.98 | JUC02016925.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -10.68 | JUC02016911.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -10.85 | PSR02032810.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -11 | PSR02032776.hg.1 | ST3GAL5 |
| TC02002049.hg.1 | -14.03 | JUC02016912.hg.1 | ST3GAL5 |
| TC05001112.hg.1 | -2.66 | JUC05008252.hg.1 | SDHAP3 |
| TC05001112.hg.1 | -2.7 | PSR05016208.hg.1 | SDHAP3 |
| TC16002100.hg.1 | -2.66 | JUC16014181.hg.1 | LOC728888, |
| TC16002100.hg.1 | -3.03 | PSR16013714.hg.1 | LOC728888, |
| TC17000058.hg.1 | -2.66 | PSR17000672.hg.1 | ENO3 |
| TC17000058.hg.1 | -3.05 | PSR17000682.hg.1 | ENO3 |
| TC17000058.hg.1 | -3.13 | JUC17000393.hg.1 | ENO3 |
| TC22000852.hg.1 | -2.66 | PSR22014392.hg.1 | A4GALT |
| TC22000852.hg.1 | -2.74 | PSR22014389.hg.1 | A4GALT |
| TC22000852.hg.1 | -3.05 | JUC22005923.hg.1 | A4GALT |
| TC04000410.hg.1 | -2.67 | JUC04002824.hg.1 | PF4V1 |
| TC04000410.hg.1 | -5.34 | PSR04005657.hg.1 | PF4V1 |
| TC04001167.hg.1 | -2.67 | PSR04016005.hg.1 | COMMD8 |
| TC04001167.hg.1 | -3.58 | JUC04008484.hg.1 | COMMD8 |
| TC11003441.hg.1 | -2.67 | PSR11001672.hg.1 | TRIM6 |
| TC11003441.hg.1 | -4.78 | JUC11018933.hg.1 | TRIM6 |
| TC16000706.hg.1 | -2.68 | PSR16010053.hg.1 | SPIRE2 |
| TC16000706.hg.1 | -3.27 | JUC16005613.hg.1 | SPIRE2 |
| TC16000706.hg.1 | -6.06 | JUC16005615.hg.1 | SPIRE2 |
| TC22000514.hg.1 | -2.68 | JUC22003741.hg.1 | GGTLC3 |

| | | | |
|-----------------|--------|------------------|------------|
| TC22000514.hg.1 | -3.11 | PSR22009452.hg.1 | GGTLC3 |
| TC22000514.hg.1 | -6.07 | JUC22003743.hg.1 | GGTLC3 |
| TC22000725.hg.1 | -2.68 | PSR22012791.hg.1 | RAC2 |
| TC22000725.hg.1 | -3.16 | PSR22012792.hg.1 | RAC2 |
| TC22000725.hg.1 | -3.57 | JUC22005339.hg.1 | RAC2 |
| TC22000725.hg.1 | -4.23 | JUC22005340.hg.1 | RAC2 |
| TC06001246.hg.1 | -2.7 | PSR06014811.hg.1 | F13A1 |
| TC06001246.hg.1 | -2.73 | PSR06014792.hg.1 | F13A1 |
| TC06001246.hg.1 | -3.23 | PSR06014821.hg.1 | F13A1 |
| TC06001246.hg.1 | -5.34 | PSR06014820.hg.1 | F13A1 |
| TC06001246.hg.1 | -5.62 | PSR06014814.hg.1 | F13A1 |
| TC06001246.hg.1 | -6.02 | PSR06014822.hg.1 | F13A1 |
| TC06001246.hg.1 | -6.84 | PSR06014815.hg.1 | F13A1 |
| TC06001246.hg.1 | -7.03 | JUC06007384.hg.1 | F13A1 |
| TC11003434.hg.1 | -2.7 | JUC11018831.hg.1 | REXO2 |
| TC11003434.hg.1 | -2.89 | PSR11012898.hg.1 | REXO2 |
| TC04000564.hg.1 | -2.72 | PSR04008231.hg.1 | CCDC109B |
| TC04000564.hg.1 | -2.72 | JUC04004322.hg.1 | CCDC109B |
| TC04000564.hg.1 | -3.3 | PSR04008233.hg.1 | CCDC109B |
| TC04000564.hg.1 | -3.32 | PSR04008240.hg.1 | CCDC109B |
| TC04000564.hg.1 | -3.51 | PSR04008230.hg.1 | CCDC109B |
| TC04000564.hg.1 | -3.81 | PSR04008238.hg.1 | CCDC109B |
| TC09000148.hg.1 | -2.72 | PSR09001657.hg.1 | TRBV20OR9- |
| TC09000148.hg.1 | -3.39 | JUC09000903.hg.1 | TRBV20OR9- |
| TC09000148.hg.1 | -3.96 | PSR09001658.hg.1 | TRBV20OR9- |
| TC10001212.hg.1 | -2.72 | PSR10015148.hg.1 | CXCL12 |
| TC10001212.hg.1 | -3.85 | PSR10015147.hg.1 | CXCL12 |
| TC10001212.hg.1 | -4.18 | PSR10015146.hg.1 | CXCL12 |
| TC10001212.hg.1 | -5.2 | PSR10015160.hg.1 | CXCL12 |
| TC10001212.hg.1 | -6.18 | PSR10015166.hg.1 | CXCL12 |
| TC10001212.hg.1 | -7.38 | PSR10015150.hg.1 | CXCL12 |
| TC10001212.hg.1 | -8.04 | JUC10008775.hg.1 | CXCL12 |
| TC10001212.hg.1 | -8.13 | PSR10015149.hg.1 | CXCL12 |
| TC10001212.hg.1 | -9.45 | JUC10008776.hg.1 | CXCL12 |
| TC10001212.hg.1 | -11.55 | JUC10008772.hg.1 | CXCL12 |
| TC10001212.hg.1 | -12.68 | PSR10015143.hg.1 | CXCL12 |
| TC01000783.hg.1 | -2.73 | PSR01012478.hg.1 | ST6GALNAC |
| TC01000783.hg.1 | -3.26 | JUC01006548.hg.1 | ST6GALNAC |
| TC22000382.hg.1 | -2.73 | JUC22002789.hg.1 | RIBC2 |
| TC22000382.hg.1 | -3.85 | PSR22007402.hg.1 | RIBC2 |
| TC12001350.hg.1 | -2.77 | PSR12017639.hg.1 | TMTC1 |
| TC12001350.hg.1 | -3.9 | JUC12009767.hg.1 | TMTC1 |
| TC22000178.hg.1 | -2.77 | PSR22003338.hg.1 | |
| TC22000178.hg.1 | -3.14 | JUC22001133.hg.1 | |
| TC0X000805.hg.1 | -2.8 | PSR0X011028.hg.1 | ARSD |
| TC0X000805.hg.1 | -2.94 | JUC0X005396.hg.1 | ARSD |
| TC06001806.hg.1 | -2.81 | PSR06021814.hg.1 | |
| TC06001806.hg.1 | -4.64 | JUC06010477.hg.1 | |
| TC0X000426.hg.1 | -2.81 | PSR0X005662.hg.1 | LPAR4 |
| TC0X000426.hg.1 | -3.38 | JUC0X002802.hg.1 | LPAR4 |
| TC12002085.hg.1 | -2.81 | PSR12027520.hg.1 | CDK2AP1 |
| TC12002085.hg.1 | -3.53 | JUC12015438.hg.1 | CDK2AP1 |
| TC04000729.hg.1 | -2.82 | JUC04005477.hg.1 | EDNRA |
| TC04000729.hg.1 | -4.42 | JUC04005484.hg.1 | EDNRA |
| TC04000729.hg.1 | -4.84 | PSR04010236.hg.1 | EDNRA |
| TC04000729.hg.1 | -8.13 | PSR04010235.hg.1 | EDNRA |
| TC04000729.hg.1 | -8.43 | JUC04005490.hg.1 | EDNRA |
| TC04000729.hg.1 | -9.92 | PSR04010242.hg.1 | EDNRA |

| | | | |
|-----------------|--------|--------------------------|--------------|
| TC6_apd_hap1000 | -2.85 | PSR6_apd_hap1000127.hg.1 | |
| TC6_apd_hap1000 | -4.2 | JUC6_apd_hap1000066.hg.1 | |
| TC6_cox_hap2000 | -2.85 | PSR6_cox_hap2000221.hg.1 | |
| TC6_cox_hap2000 | -4.2 | JUC6_cox_hap2000116.hg.1 | |
| TC19001811.hg.1 | -2.86 | JUC19013989.hg.1 | ZNF160 |
| TC19001811.hg.1 | -2.94 | PSR19024584.hg.1 | ZNF160 |
| TC14001225.hg.1 | -2.9 | JUC14007063.hg.1 | MAX |
| TC14001225.hg.1 | -3.92 | PSR14013982.hg.1 | MAX |
| TC14001225.hg.1 | -5.8 | PSR14013983.hg.1 | MAX |
| TC14001225.hg.1 | -10.13 | JUC14007079.hg.1 | MAX |
| TC02002255.hg.1 | -2.92 | JUC02018809.hg.1 | |
| TC02002255.hg.1 | -3.05 | PSR02036350.hg.1 | |
| TC09001337.hg.1 | -2.92 | JUC09009005.hg.1 | ECM2 |
| TC09001337.hg.1 | -3.22 | PSR09016770.hg.1 | ECM2 |
| TC6_apd_hap1000 | -2.92 | JUC6_apd_hap1000080.hg.1 | HLA-DPB2 |
| TC6_apd_hap1000 | -3.48 | PSR6_apd_hap1000080.hg.1 | HLA-DPB2 |
| TC6_apd_hap1000 | -4.59 | JUC6_apd_hap1000080.hg.1 | HLA-DPB2 |
| TC01001692.hg.1 | -2.93 | PSR01026311.hg.1 | ZBED6, ZC3H7 |
| TC01001692.hg.1 | -4.45 | JUC01014074.hg.1 | ZBED6, ZC3H7 |
| TC04001509.hg.1 | -2.93 | PSR04021419.hg.1 | NDNF |
| TC04001509.hg.1 | -4.02 | JUC04011269.hg.1 | NDNF |
| TC04001509.hg.1 | -4.66 | PSR04021418.hg.1 | NDNF |
| TC04001509.hg.1 | -5.02 | PSR04021415.hg.1 | NDNF |
| TC04001509.hg.1 | -5.59 | PSR04021412.hg.1 | NDNF |
| TC04001509.hg.1 | -6.08 | JUC04011265.hg.1 | NDNF |
| TC04001509.hg.1 | -6.12 | JUC04011263.hg.1 | NDNF |
| TC04001509.hg.1 | -6.19 | PSR04021411.hg.1 | NDNF |
| TC03001044.hg.1 | -2.94 | JUC03009378.hg.1 | LEPREL1-AS |
| TC03001044.hg.1 | -5.77 | PSR03018493.hg.1 | LEPREL1-AS |
| TC03001044.hg.1 | -24.25 | JUC03009377.hg.1 | LEPREL1-AS |
| TC05000026.hg.1 | -2.95 | PSR05000394.hg.1 | C5orf38 |
| TC05000026.hg.1 | -3.62 | JUC05000210.hg.1 | C5orf38 |
| TC12001665.hg.1 | -2.95 | PSR12022351.hg.1 | |
| TC12001665.hg.1 | -5.05 | JUC12012325.hg.1 | |
| TC12001665.hg.1 | -9.13 | JUC12012326.hg.1 | |
| TC11001009.hg.1 | -2.97 | PSR11012638.hg.1 | PTS |
| TC11001009.hg.1 | -3.26 | JUC11006776.hg.1 | PTS |
| TC01001749.hg.1 | -3.02 | JUC01014740.hg.1 | G0S2 |
| TC01001749.hg.1 | -7.46 | PSR01027386.hg.1 | G0S2 |
| TC22001465.hg.1 | -3.03 | JUC22009272.hg.1 | TRIOBP |
| TC22001465.hg.1 | -3.76 | PSR22005325.hg.1 | TRIOBP |
| TC22001465.hg.1 | -4.09 | PSR22005321.hg.1 | TRIOBP |
| TC22001465.hg.1 | -4.36 | PSR22005320.hg.1 | TRIOBP |
| TC22001465.hg.1 | -4.97 | JUC22009282.hg.1 | TRIOBP |
| TC09000714.hg.1 | -3.08 | PSR09008992.hg.1 | LOC10050611 |
| TC09000714.hg.1 | -4.04 | PSR09008982.hg.1 | LOC10050611 |
| TC09000714.hg.1 | -4.74 | JUC09004918.hg.1 | LOC10050611 |
| TC09000714.hg.1 | -6.2 | PSR09008981.hg.1 | LOC10050611 |
| TC09000714.hg.1 | -6.53 | PSR09008983.hg.1 | LOC10050611 |
| TC11001415.hg.1 | -3.09 | PSR11017763.hg.1 | LYVE1 |
| TC11001415.hg.1 | -3.69 | JUC11009507.hg.1 | LYVE1 |
| TC6_dbb_hap3000 | -3.12 | JUC6_dbb_hap3000080.hg.1 | |
| TC6_dbb_hap3000 | -3.39 | PSR6_dbb_hap3000247.hg.1 | |
| TC6_dbb_hap3000 | -3.56 | JUC6_dbb_hap3000078.hg.1 | |
| TC19001292.hg.1 | -3.13 | JUC19010724.hg.1 | CRLF1 |
| TC19001292.hg.1 | -7 | JUC19010723.hg.1 | CRLF1 |
| TC19001292.hg.1 | -7.2 | PSR19018376.hg.1 | CRLF1 |
| TC19001292.hg.1 | -8.35 | PSR19018368.hg.1 | CRLF1 |

| | | | |
|------------------|-------|---------------------------|-----------|
| TC19001292.hg.1 | -8.93 | PSR19018375.hg.1 | CRLF1 |
| TC21000443.hg.1 | -3.15 | PSR21005224.hg.1 | KCNJ6 |
| TC21000443.hg.1 | -4 | PSR21005222.hg.1 | KCNJ6 |
| TC21000443.hg.1 | -4.63 | JUC21002668.hg.1 | KCNJ6 |
| TC04001729.hg.1 | -3.18 | PSR04023968.hg.1 | MFAP3L |
| TC04001729.hg.1 | -3.34 | JUC04012706.hg.1 | MFAP3L |
| TC04001729.hg.1 | -3.43 | JUC04012695.hg.1 | MFAP3L |
| TC04001729.hg.1 | -3.61 | PSR04023942.hg.1 | MFAP3L |
| TC04001729.hg.1 | -4.06 | JUC04012709.hg.1 | MFAP3L |
| TC04001729.hg.1 | -4.09 | PSR04023958.hg.1 | MFAP3L |
| TC04001729.hg.1 | -5.13 | PSR04023957.hg.1 | MFAP3L |
| TC04001729.hg.1 | -6.06 | PSR04023969.hg.1 | MFAP3L |
| TC04001729.hg.1 | -6.59 | JUC04012698.hg.1 | MFAP3L |
| TC04001729.hg.1 | -6.73 | JUC04012704.hg.1 | MFAP3L |
| TC04001729.hg.1 | -7.31 | JUC04012702.hg.1 | MFAP3L |
| TC04001729.hg.1 | -7.38 | PSR04023947.hg.1 | MFAP3L |
| TC04001729.hg.1 | -7.54 | JUC04012697.hg.1 | MFAP3L |
| TC04001729.hg.1 | -7.74 | JUC04012696.hg.1 | MFAP3L |
| TC04001729.hg.1 | -8.4 | PSR04023966.hg.1 | MFAP3L |
| TC04001729.hg.1 | -8.51 | JUC04012699.hg.1 | MFAP3L |
| TC15000438.hg.1 | -3.19 | JUC15002000.hg.1 | CGNL1 |
| TC15000438.hg.1 | -4.28 | PSR15004101.hg.1 | CGNL1 |
| TC14001429.hg.1 | -3.24 | JUC14008116.hg.1 | C14orf102 |
| TC14001429.hg.1 | -3.35 | JUC14008115.hg.1 | C14orf102 |
| TC14001429.hg.1 | -3.87 | PSR14015884.hg.1 | C14orf102 |
| TC03001345.hg.1 | -3.33 | PSR03022986.hg.1 | CDCP1 |
| TC03001345.hg.1 | -3.59 | PSR03022977.hg.1 | CDCP1 |
| TC03001345.hg.1 | -4.49 | PSR03022987.hg.1 | CDCP1 |
| TC03001345.hg.1 | -10.8 | JUC03011448.hg.1 | CDCP1 |
| TC16001326.hg.1 | -3.42 | PSR16018330.hg.1 | MTHFSD |
| TC16001326.hg.1 | -4.66 | JUC16010450.hg.1 | MTHFSD |
| TC6_ssto_hap7000 | -3.44 | JUC6_ssto_hap7000083.hg.1 | |
| TC6_ssto_hap7000 | -3.72 | PSR6_ssto_hap7000205.hg.1 | |
| TC6_ssto_hap7000 | -3.92 | JUC6_ssto_hap7000081.hg.1 | |
| TC6_apd_hap1000 | -3.52 | PSR6_apd_hap1001 | TAP2 |
| TC6_apd_hap1000 | -4.35 | JUC6_apd_hap1000 | TAP2 |
| TC6_dbb_hap3000 | -3.52 | PSR6_dbb_hap3003 | TAP2 |
| TC6_dbb_hap3000 | -4.35 | JUC6_dbb_hap3002 | TAP2 |
| TC6_ssto_hap7000 | -3.52 | PSR6_ssto_hap7003 | TAP2 |
| TC6_ssto_hap7000 | -4.35 | JUC6_ssto_hap7001 | TAP2 |
| TC06004126.hg.1 | -3.55 | PSR06018769.hg.1 | TAP2 |
| TC06004126.hg.1 | -4.38 | JUC06021749.hg.1 | TAP2 |
| TC6_mann_hap400 | -3.55 | PSR6_mann_hap400 | TAP2 |
| TC6_mann_hap400 | -4.38 | JUC6_mann_hap400 | TAP2 |
| TC6_mcf_hap5000 | -3.55 | PSR6_mcf_hap5003 | TAP2 |
| TC6_mcf_hap5000 | -4.39 | JUC6_mcf_hap5001 | TAP2 |
| TC6_qbl_hap6000 | -3.55 | PSR6_qbl_hap60037 | TAP2 |
| TC6_qbl_hap6000 | -4.39 | JUC6_qbl_hap60014 | TAP2 |
| TC6_cox_hap2000 | -3.6 | PSR6_cox_hap2003 | TAP2 |
| TC6_cox_hap2000 | -4.45 | JUC6_cox_hap20021 | TAP2 |
| TC12001405.hg.1 | -3.62 | JUC12010141.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -4.3 | PSR12018198.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -4.73 | PSR12018193.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -4.97 | PSR12018192.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -6.45 | PSR12018197.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -7.19 | JUC12010135.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -7.25 | PSR12018202.hg.1 | PRICKLE1 |
| TC12001405.hg.1 | -8.24 | JUC12010134.hg.1 | PRICKLE1 |

| | | | |
|-----------------|--------|------------------|----------|
| TC12001405.hg.1 | -8.81 | JUC12010144.hg.1 | PRICKLE1 |
| TC10001045.hg.1 | -3.63 | PSR10012957.hg.1 | CCDC3 |
| TC10001045.hg.1 | -4.6 | JUC10007511.hg.1 | CCDC3 |
| TC10001045.hg.1 | -5.58 | JUC10007503.hg.1 | CCDC3 |
| TC10001045.hg.1 | -5.94 | JUC10007514.hg.1 | CCDC3 |
| TC10001045.hg.1 | -7.89 | PSR10012960.hg.1 | CCDC3 |
| TC10001045.hg.1 | -8.15 | PSR10012962.hg.1 | CCDC3 |
| TC10001045.hg.1 | -8.31 | PSR10012968.hg.1 | CCDC3 |
| TC10001045.hg.1 | -8.83 | PSR10012967.hg.1 | CCDC3 |
| TC10001045.hg.1 | -9.05 | PSR10012955.hg.1 | CCDC3 |
| TC10001045.hg.1 | -9.22 | JUC10007501.hg.1 | CCDC3 |
| TC10001045.hg.1 | -9.51 | PSR10012965.hg.1 | CCDC3 |
| TC10001045.hg.1 | -10.33 | PSR10012961.hg.1 | CCDC3 |
| TC10001045.hg.1 | -10.63 | PSR10012966.hg.1 | CCDC3 |
| TC10001045.hg.1 | -10.8 | JUC10007508.hg.1 | CCDC3 |
| TC10001045.hg.1 | -12.58 | PSR10012963.hg.1 | CCDC3 |
| TC01002954.hg.1 | -3.75 | PSR01045983.hg.1 | SORT1 |
| TC01002954.hg.1 | -3.93 | PSR01045984.hg.1 | SORT1 |
| TC01002954.hg.1 | -5.12 | PSR01045985.hg.1 | SORT1 |
| TC01002954.hg.1 | -5.34 | PSR01045979.hg.1 | SORT1 |
| TC01002954.hg.1 | -5.41 | PSR01045987.hg.1 | SORT1 |
| TC01002954.hg.1 | -5.5 | PSR01045981.hg.1 | SORT1 |
| TC01002954.hg.1 | -5.95 | JUC01024745.hg.1 | SORT1 |
| TC01002954.hg.1 | -6.75 | JUC01024751.hg.1 | SORT1 |
| TC01002954.hg.1 | -6.76 | JUC01024754.hg.1 | SORT1 |
| TC01002954.hg.1 | -7.73 | PSR01045964.hg.1 | SORT1 |
| TC03002146.hg.1 | -3.79 | JUC03018777.hg.1 | APOD |
| TC03002146.hg.1 | -4.04 | PSR03037889.hg.1 | APOD |
| TC03002146.hg.1 | -6.23 | PSR03037886.hg.1 | APOD |
| TC03002146.hg.1 | -6.71 | PSR03037888.hg.1 | APOD |
| TC03002146.hg.1 | -7.04 | JUC03018781.hg.1 | APOD |
| TC12001560.hg.1 | -4.21 | JUC12011472.hg.1 | HOXC-AS1 |
| TC12001560.hg.1 | -6.14 | PSR12020638.hg.1 | HOXC-AS1 |
| TC01001004.hg.1 | -4.47 | JUC01008369.hg.1 | OLFML3 |
| TC01001004.hg.1 | -4.79 | PSR01016022.hg.1 | OLFML3 |
| TC03001169.hg.1 | -4.48 | PSR03020238.hg.1 | TIMP4 |
| TC03001169.hg.1 | -4.55 | JUC03010111.hg.1 | TIMP4 |

| | | | |
|--|----------------|--------|------|
| aldo-keto reductase family 1, member C3 (3-alpha hyd | NM_001253908, | Coding | TRUE |
| aldo-keto reductase family 1, member C3 (3-alpha hyd | NM_001253908, | Coding | TRUE |
| aldo-keto reductase family 1, member C3 (3-alpha hyd | NM_001253908, | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| neuroblastoma breakpoint family member 21-like, neu | ENST000003094 | Coding | TRUE |
| integrin beta 1 binding protein 1 | NM_004763, NM | Coding | TRUE |
| integrin beta 1 binding protein 1 | NM_004763, NM | Coding | TRUE |
| integrin beta 1 binding protein 1 | NM_004763, NM | Coding | TRUE |
| integrin beta 1 binding protein 1 | NM_004763, NM | Coding | TRUE |
| T-box 20 | NM_001077653, | Coding | TRUE |
| T-box 20 | NM_001077653, | Coding | TRUE |
| T-box 20 | NM_001077653, | Coding | TRUE |
| T-box 20 | NM_001077653, | Coding | TRUE |
| T-box 20 | NM_001077653, | Coding | TRUE |
| T-box 20 | NM_001077653, | Coding | TRUE |
| mab-21-like 1 (C. elegans), microRNA 548f-5 | NM_005584, NR | Coding | TRUE |
| mab-21-like 1 (C. elegans), microRNA 548f-5 | NM_005584, NR | Coding | TRUE |
| mab-21-like 1 (C. elegans), microRNA 548f-5 | NM_005584, NR | Coding | TRUE |
| mab-21-like 1 (C. elegans), microRNA 548f-5 | NM_005584, NR | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| anterior gradient 2 homolog (Xenopus laevis) | NM_006408, ENS | Coding | TRUE |
| chromosome 10 open reading frame 10 | NM_007021, ENS | Coding | TRUE |
| chromosome 10 open reading frame 10 | NM_007021, ENS | Coding | TRUE |
| chromosome 10 open reading frame 10 | NM_007021, ENS | Coding | TRUE |
| adenylate kinase 5 | NM_012093, NM | Coding | TRUE |
| adenylate kinase 5 | NM_012093, NM | Coding | TRUE |
| adenylate kinase 5 | NM_012093, NM | Coding | TRUE |
| adenylate kinase 5 | NM_012093, NM | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| Sad1 and UNC84 domain containing 1 | NM_001171944, | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| solute carrier organic anion transporter family, member | NM_005630, ENS | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| FAT tumor suppressor homolog 3 (Drosophila) | NM_001008781, | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| solute carrier family 8 (sodium/calcium exchanger), member | NM_001112800, I | Coding | TRUE |
| selenoprotein T | NM_016275, ENS | Coding | TRUE |
| selenoprotein T | NM_016275, ENS | Coding | TRUE |
| selenoprotein T | NM_016275, ENS | Coding | TRUE |
| cytochrome b5 domain containing 1 | NM_144607, ENS | Coding | TRUE |
| cytochrome b5 domain containing 1 | NM_144607, ENS | Coding | TRUE |
| inhibitor of DNA binding 2, dominant negative helix-loop | NM_002166, ENS | Coding | TRUE |
| inhibitor of DNA binding 2, dominant negative helix-loop | NM_002166, ENS | Coding | TRUE |
| inhibitor of DNA binding 2, dominant negative helix-loop | NM_002166, ENS | Coding | TRUE |
| inhibitor of DNA binding 2, dominant negative helix-loop | NM_002166, ENS | Coding | TRUE |
| inhibitor of DNA binding 2, dominant negative helix-loop | NM_002166, ENS | Coding | TRUE |
| uncharacterized LOC100134259 | NR_024452, ENS | Coding | TRUE |
| uncharacterized LOC100134259 | NR_024452, ENS | Coding | TRUE |
| uncharacterized LOC100134259 | NR_024452, ENS | Coding | TRUE |
| uncharacterized LOC100134259 | NR_024452, ENS | Coding | TRUE |
| uncharacterized LOC100134259 | NR_024452, ENS | Coding | TRUE |
| pleckstrin homology domain containing, family A member | NM_175058, ENS | Coding | TRUE |
| pleckstrin homology domain containing, family A member | NM_175058, ENS | Coding | TRUE |
| pleckstrin homology domain containing, family A member | NM_175058, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| plasminogen activator, tissue | NM_000930, NM | Coding | TRUE |
| plasminogen activator, tissue | NM_000930, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member A2 | NM_000382, NM | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| major histocompatibility complex, class I, C | NM_001243042, | Coding | TRUE |
| arsenic (+3 oxidation state) methyltransferase | NM_020682, ENS | Coding | TRUE |
| arsenic (+3 oxidation state) methyltransferase | NM_020682, ENS | Coding | TRUE |
| arsenic (+3 oxidation state) methyltransferase | NM_020682, ENS | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| HYDIN, axonemal central pair apparatus protein | NM_017558, NM | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| keratin associated protein 1-5 | NM_031957, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 19 | NM_018647, NM | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 19 | NM_018647, NM | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 19 | NM_018647, NM | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 19 | NM_018647, NM | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 19 | NM_018647, NM | Coding | TRUE |
| SOX2 overlapping transcript (non-protein coding) | NR_004053, ENS | Coding | TRUE |
| SOX2 overlapping transcript (non-protein coding) | NR_004053, ENS | Coding | TRUE |
| SOX2 overlapping transcript (non-protein coding) | NR_004053, ENS | Coding | TRUE |
| SOX2 overlapping transcript (non-protein coding) | NR_004053, ENS | Coding | TRUE |
| phosphatase, orphan 2 | NM_001008489, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| laminin, alpha 3 | NM_000227, NM | Coding | TRUE |
| laminin, alpha 3 | NM_000227, NM | Coding | TRUE |
| laminin, alpha 3 | NM_000227, NM | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| ATPase, H+ transporting, lysosomal accessory protein | NM_001017971, | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| major facilitator superfamily domain containing 6 | NM_017694, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| collagen, type X, alpha 1 | NM_000493, ENS | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| monoglyceride lipase | NM_001003794, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| kelch-like 13 (Drosophila) | NM_001168299, | Coding | TRUE |
| cytoskeleton associated protein 2-like | NM_152515, ENS | Coding | TRUE |
| cytoskeleton associated protein 2-like | NM_152515, ENS | Coding | TRUE |
| cytoskeleton associated protein 2-like | NM_152515, ENS | Coding | TRUE |
| cytoskeleton associated protein 2-like | NM_152515, ENS | Coding | TRUE |
| anoctamin 1, calcium activated chloride channel | NM_018043, NR | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| membrane associated guanylate kinase, WW and PDZ | NM_001142782, | Coding | TRUE |
| ankyrin repeat and SOCS box containing 3, GPR75-A | NM_001201965, | Coding | TRUE |
| ankyrin repeat and SOCS box containing 3, GPR75-A | NM_001201965, | Coding | TRUE |
| ankyrin repeat and SOCS box containing 3, GPR75-A | NM_001201965, | Coding | TRUE |
| ankyrin repeat and SOCS box containing 3, GPR75-A | NM_001201965, | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| contactin 3 (plasmacytoma associated) | NM_020872, ENS | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| pleckstrin and Sec7 domain containing 3 | NM_015310, NM | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| ATPase family, AAA domain containing 2 | NM_014109, ENS | Coding | TRUE |
| G protein-coupled receptor, family C, group 5, member | NM_018653, NM | Coding | TRUE |
| G protein-coupled receptor, family C, group 5, member | NM_018653, NM | Coding | TRUE |
| SAR1 homolog B (S. cerevisiae) | NM_001033503, | Coding | TRUE |
| SAR1 homolog B (S. cerevisiae) | NM_001033503, | Coding | TRUE |
| SAR1 homolog B (S. cerevisiae) | NM_001033503, | Coding | TRUE |
| SAR1 homolog B (S. cerevisiae) | NM_001033503, | Coding | TRUE |
| SAR1 homolog B (S. cerevisiae) | NM_001033503, | Coding | TRUE |
| SAR1 homolog B (S. cerevisiae) | NM_001033503, | Coding | TRUE |
| signal transducing adaptor family member 2 | NM_001013841, | Coding | TRUE |
| signal transducing adaptor family member 2 | NM_001013841, | Coding | TRUE |
| signal transducing adaptor family member 2 | NM_001013841, | Coding | TRUE |
| signal transducing adaptor family member 2 | NM_001013841, | Coding | TRUE |
| calmodulin 1 (phosphorylase kinase, delta), calmodulin | NM_006888, ENS | Coding | TRUE |
| calmodulin 1 (phosphorylase kinase, delta), calmodulin | NM_006888, ENS | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| mitochondrial ribosomal protein S6, solute carrier fami | NM_032476, NM | Coding | TRUE |
| suppressor of cancer cell invasion | NM_001144877, | Coding | TRUE |
| suppressor of cancer cell invasion | NM_001144877, | Coding | TRUE |
| suppressor of cancer cell invasion | NM_001144877, | Coding | TRUE |
| suppressor of cancer cell invasion | NM_001144877, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| kinesin family member 26B | NM_018012, ENS | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| sperm flagellar 2 | NM_024867, NM | Coding | TRUE |
| ubiquitin-conjugating enzyme E2D 3 | NM_003340, NM | Coding | TRUE |
| ubiquitin-conjugating enzyme E2D 3 | NM_003340, NM | Coding | TRUE |
| ubiquitin-conjugating enzyme E2D 3 | NM_003340, NM | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide J3, ur | NM_001097615, | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide J3, ur | NM_001097615, | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide J3, ur | NM_001097615, | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide J3, ur | NM_001097615, | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide J3, ur | NM_001097615, | Coding | TRUE |
| dynein, cytoplasmic 2, light intermediate chain 1 | NM_016008, NM | Coding | TRUE |
| dynein, cytoplasmic 2, light intermediate chain 1 | NM_016008, NM | Coding | TRUE |
| intraflagellar transport 172 homolog (Chlamydomonas | NM_015662, ENS | Coding | TRUE |
| intraflagellar transport 172 homolog (Chlamydomonas | NM_015662, ENS | Coding | TRUE |
| intraflagellar transport 172 homolog (Chlamydomonas | NM_015662, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| collagen and calcium binding EGF domains 1 | NM_133459, ENS | Coding | TRUE |
| collagen and calcium binding EGF domains 1 | NM_133459, ENS | Coding | TRUE |
| collagen and calcium binding EGF domains 1 | NM_133459, ENS | Coding | TRUE |
| collagen and calcium binding EGF domains 1 | NM_133459, ENS | Coding | TRUE |
| collagen and calcium binding EGF domains 1 | NM_133459, ENS | Coding | TRUE |
| collagen and calcium binding EGF domains 1 | NM_133459, ENS | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| v-yes-1 Yamaguchi sarcoma viral related oncogene ho | NM_001111097, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| stromal antigen 2 | NM_001042749, N | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 12 | NM_021800, NM | Coding | TRUE |
| collagen, type VI, alpha 1 | NM_001848, ENS | Coding | TRUE |
| collagen, type VI, alpha 1 | NM_001848, ENS | Coding | TRUE |
| collagen, type VI, alpha 1 | NM_001848, ENS | Coding | TRUE |
| collagen, type VI, alpha 1 | NM_001848, ENS | Coding | TRUE |
| collagen, type VI, alpha 1 | NM_001848, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| receptor-interacting serine-threonine kinase 4 | NM_020639, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| ephrin-B1 | NM_004429, ENS | Coding | TRUE |
| neuropilin (NRP) and tolloid (TLL)-like 2 | NM_001201477, N | Coding | TRUE |
| neuropilin (NRP) and tolloid (TLL)-like 2 | NM_001201477, N | Coding | TRUE |
| neuropilin (NRP) and tolloid (TLL)-like 2 | NM_001201477, N | Coding | TRUE |
| neuropilin (NRP) and tolloid (TLL)-like 2 | NM_001201477, N | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 9 | NM_002784, ENS | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 9 | NM_002784, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| histone deacetylase 11 | NM_001136041, | Coding | TRUE |
| histone deacetylase 11 | NM_001136041, | Coding | TRUE |
| histone deacetylase 11 | NM_001136041, | Coding | TRUE |
| histone deacetylase 11 | NM_001136041, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| polo-like kinase 2 | NM_001252226, | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| transducin (beta)-like 2 | NM_012453, ENS | Coding | TRUE |
| apoptotic chromatin condensation inducer 1 | NM_001164814, | Coding | TRUE |
| apoptotic chromatin condensation inducer 1 | NM_001164814, | Coding | TRUE |
| apoptotic chromatin condensation inducer 1 | NM_001164814, | Coding | TRUE |
| apoptotic chromatin condensation inducer 1 | NM_001164814, | Coding | TRUE |
| KIAA0664-like 3 | NR_024034, ENS | Coding | TRUE |
| KIAA0664-like 3 | NR_024034, ENS | Coding | TRUE |
| KIAA0664-like 3 | NR_024034, ENS | Coding | TRUE |
| KIAA0664-like 3 | NR_024034, ENS | Coding | TRUE |
| KIAA0664-like 3 | NR_024034, ENS | Coding | TRUE |
| KIAA0664-like 3 | NR_024034, ENS | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 9 | NM_001561, ENS | Coding | TRUE |
| SH3 domain containing, Ysc84-like 1 (S. cerevisiae) | NM_001159597, | Coding | TRUE |
| SH3 domain containing, Ysc84-like 1 (S. cerevisiae) | NM_001159597, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| family with sequence similarity 160, member A1 | NM_001109977, | Coding | TRUE |
| family with sequence similarity 160, member A1 | NM_001109977, | Coding | TRUE |
| family with sequence similarity 160, member A1 | NM_001109977, | Coding | TRUE |
| stathmin-like 2 | NM_001199214, | Coding | TRUE |
| stathmin-like 2 | NM_001199214, | Coding | TRUE |
| stathmin-like 2 | NM_001199214, | Coding | TRUE |
| stathmin-like 2 | NM_001199214, | Coding | TRUE |
| stathmin-like 2 | NM_001199214, | Coding | TRUE |
| stathmin-like 2 | NM_001199214, | Coding | TRUE |
| GLI pathogenesis-related 1 like 2 | NM_152436, BCC | Coding | TRUE |
| GLI pathogenesis-related 1 like 2 | NM_152436, BCC | Coding | TRUE |
| phosphorylase, glycogen, liver | NM_001163940, | Coding | TRUE |
| phosphorylase, glycogen, liver | NM_001163940, | Coding | TRUE |
| phosphorylase, glycogen, liver | NM_001163940, | Coding | TRUE |
| phosphorylase, glycogen, liver | NM_001163940, | Coding | TRUE |
| phosphorylase, glycogen, liver | NM_001163940, | Coding | TRUE |
| phosphorylase, glycogen, liver | NM_001163940, | Coding | TRUE |
| D site of albumin promoter (albumin D-box) binding pro | NM_001352, ENS | Coding | TRUE |
| D site of albumin promoter (albumin D-box) binding pro | NM_001352, ENS | Coding | TRUE |
| D site of albumin promoter (albumin D-box) binding pro | NM_001352, ENS | Coding | TRUE |
| D site of albumin promoter (albumin D-box) binding pro | NM_001352, ENS | Coding | TRUE |
| D site of albumin promoter (albumin D-box) binding pro | NM_001352, ENS | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| testis-specific kinase 2 | NM_007170, BCC | Coding | TRUE |
| neuroblastoma breakpoint family, member 9 | ENST000002818 | Coding | TRUE |
| neuroblastoma breakpoint family, member 9 | ENST000002818 | Coding | TRUE |
| neuroblastoma breakpoint family, member 9 | ENST000002818 | Coding | TRUE |
| glycosyltransferase-like domain containing 1 | NM_001006636, | Coding | TRUE |
| glycosyltransferase-like domain containing 1 | NM_001006636, | Coding | TRUE |
| glycosyltransferase-like domain containing 1 | NM_001006636, | Coding | TRUE |
| glycosyltransferase-like domain containing 1 | NM_001006636, | Coding | TRUE |
| spermatogenesis associated 6-like | NM_001039395, | Coding | TRUE |
| spermatogenesis associated 6-like | NM_001039395, | Coding | TRUE |
| spermatogenesis associated 6-like | NM_001039395, | Coding | TRUE |
| spermatogenesis associated 6-like | NM_001039395, | Coding | TRUE |
| golgin A1 | NM_002077, ENS | Coding | TRUE |
| golgin A1 | NM_002077, ENS | Coding | TRUE |
| golgin A1 | NM_002077, ENS | Coding | TRUE |
| golgin A1 | NM_002077, ENS | Coding | TRUE |
| golgin A1 | NM_002077, ENS | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| glycerol kinase | NM_000167, NM | Coding | TRUE |
| kallikrein pseudogene 1 | NR_002948 | Coding | TRUE |
| kallikrein pseudogene 1 | NR_002948 | Coding | TRUE |
| kallikrein pseudogene 1 | NR_002948 | Coding | TRUE |
| kallikrein pseudogene 1 | NR_002948 | Coding | TRUE |
| kallikrein pseudogene 1 | NR_002948 | Coding | TRUE |
| suppression of tumorigenicity 13 (colon carcinoma) (H | NM_003932, BC1 | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| suppression of tumorigenicity 13 (colon carcinoma) (H | NM_003932, BC1 | Coding | TRUE |
| F-box and leucine-rich repeat protein 4 | NM_012160, ENS | Coding | TRUE |
| F-box and leucine-rich repeat protein 4 | NM_012160, ENS | Coding | TRUE |
| F-box and leucine-rich repeat protein 4 | NM_012160, ENS | Coding | TRUE |
| F-box and leucine-rich repeat protein 4 | NM_012160, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| BAI1-associated protein 2-like 1 | NM_018842, ENS | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| angiogenin, ribonuclease, RNase A family, 5, ribonucle | NM_001145, NM | Coding | TRUE |
| protein kinase, AMP-activated, alpha 2 catalytic subun | NM_006252, ENS | Coding | TRUE |
| protein kinase, AMP-activated, alpha 2 catalytic subun | NM_006252, ENS | Coding | TRUE |
| protein kinase, AMP-activated, alpha 2 catalytic subun | NM_006252, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| lysosomal protein transmembrane 5 | NM_006762, ENS | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| microRNA 196b | ENST000005196 | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| anillin, actin binding protein | NM_018685, BCC | Coding | TRUE |
| gamma-glutamyl hydrolase (conjugase, folylpolygamm | NM_003878, ENS | Coding | TRUE |
| gamma-glutamyl hydrolase (conjugase, folylpolygamm | NM_003878, ENS | Coding | TRUE |

| | | | |
|--|----------------------|--------|------|
| hairless homolog (mouse) | NM_018411, NM_018411 | Coding | TRUE |
| hairless homolog (mouse) | NM_018411, NM_018411 | Coding | TRUE |
| hairless homolog (mouse) | NM_018411, NM_018411 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| microfibrillar associated protein 5 | NM_003480, ENS003480 | Coding | TRUE |
| immunoglobulin superfamily containing leucine-rich repeats | NM_005545, NM_005545 | Coding | TRUE |
| immunoglobulin superfamily containing leucine-rich repeats | NM_005545, NM_005545 | Coding | TRUE |
| immunoglobulin superfamily containing leucine-rich repeats | NM_005545, NM_005545 | Coding | TRUE |
| TAR DNA binding protein | NM_007375, ENS007375 | Coding | TRUE |
| TAR DNA binding protein | NM_007375, ENS007375 | Coding | TRUE |
| TAR DNA binding protein | NM_007375, ENS007375 | Coding | TRUE |
| TAR DNA binding protein | NM_007375, ENS007375 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| toll-like receptor 5 | NM_003268, BC003268 | Coding | TRUE |
| mucin 4, cell surface associated | NM_004532, NM_004532 | Coding | TRUE |
| mucin 4, cell surface associated | NM_004532, NM_004532 | Coding | TRUE |
| mucin 4, cell surface associated | NM_004532, NM_004532 | Coding | TRUE |
| mucin 4, cell surface associated | NM_004532, NM_004532 | Coding | TRUE |
| mucin 4, cell surface associated | NM_004532, NM_004532 | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransporter | NM_003759, NM_003759 | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransporter | NM_003759, NM_003759 | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransporter | NM_003759, NM_003759 | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransporter | NM_003759, NM_003759 | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransporter | NM_003759, NM_003759 | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransporter | NM_003759, NM_003759 | Coding | TRUE |
| uncharacterized LOC100506233 | NR_038903, ENS038903 | Coding | TRUE |
| uncharacterized LOC100506233 | NR_038903, ENS038903 | Coding | TRUE |
| uncharacterized LOC100506233 | NR_038903, ENS038903 | Coding | TRUE |
| uncharacterized LOC100506233 | NR_038903, ENS038903 | Coding | TRUE |
| uncharacterized LOC100506233 | NR_038903, ENS038903 | Coding | TRUE |
| chromatin assembly factor 1, subunit B (p60) | NM_005441, ENS005441 | Coding | TRUE |
| chromatin assembly factor 1, subunit B (p60) | NM_005441, ENS005441 | Coding | TRUE |
| chromatin assembly factor 1, subunit B (p60) | NM_005441, ENS005441 | Coding | TRUE |
| chromatin assembly factor 1, subunit B (p60) | NM_005441, ENS005441 | Coding | TRUE |
| chromatin assembly factor 1, subunit B (p60) | NM_005441, ENS005441 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| uncharacterized LOC100507195 | ENST000003604 | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 3 | BC001023 | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| SPARC related modular calcium binding 1 | NM_001034852, | Coding | TRUE |
| SPARC related modular calcium binding 1 | NM_001034852, | Coding | TRUE |
| SPARC related modular calcium binding 1 | NM_001034852, | Coding | TRUE |
| SPARC related modular calcium binding 1 | NM_001034852, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| MF12 antisense RNA 1 (non-protein coding) | NR_038285, ENS | Coding | TRUE |
| MF12 antisense RNA 1 (non-protein coding) | NR_038285, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| nicotinamide phosphoribosyltransferase | NM_005746, ENS | Coding | TRUE |
| heat shock 70kDa protein 12A | NM_025015, ENS | Coding | TRUE |
| heat shock 70kDa protein 12A | NM_025015, ENS | Coding | TRUE |
| heat shock 70kDa protein 12A | NM_025015, ENS | Coding | TRUE |
| heat shock 70kDa protein 12A | NM_025015, ENS | Coding | TRUE |
| heat shock 70kDa protein 12A | NM_025015, ENS | Coding | TRUE |
| family with sequence similarity 159, member A | NM_001042693, | Coding | TRUE |
| family with sequence similarity 159, member A | NM_001042693, | Coding | TRUE |
| family with sequence similarity 159, member A | NM_001042693, | Coding | TRUE |
| family with sequence similarity 159, member A | NM_001042693, | Coding | TRUE |
| family with sequence similarity 159, member A | NM_001042693, | Coding | TRUE |
| family with sequence similarity 159, member A | NM_001042693, | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| plexin A2 | NM_025179, ENS | Coding | TRUE |
| ArfGAP with coiled-coil, ankyrin repeat and PH domain | NM_012287, ENS | Coding | TRUE |
| ArfGAP with coiled-coil, ankyrin repeat and PH domain | NM_012287, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| lysosomal trafficking regulator | NM_000081, ENS | Coding | TRUE |
| desmin | NM_001927, ENS | Coding | TRUE |
| desmin | NM_001927, ENS | Coding | TRUE |
| desmin | NM_001927, ENS | Coding | TRUE |
| desmin | NM_001927, ENS | Coding | TRUE |
| IQ motif containing with AAA domain 1 | NM_024726, ENS | Coding | TRUE |
| IQ motif containing with AAA domain 1 | NM_024726, ENS | Coding | TRUE |
| IQ motif containing with AAA domain 1 | NM_024726, ENS | Coding | TRUE |
| IQ motif containing with AAA domain 1 | NM_024726, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| kinesin family member 20A | NM_005733, ENS | Coding | TRUE |
| TPT1 antisense RNA 1 (non-protein coding) | NR_024458, ENS | Coding | TRUE |
| TPT1 antisense RNA 1 (non-protein coding) | NR_024458, ENS | Coding | TRUE |
| TPT1 antisense RNA 1 (non-protein coding) | NR_024458, ENS | Coding | TRUE |
| TPT1 antisense RNA 1 (non-protein coding) | NR_024458, ENS | Coding | TRUE |
| TPT1 antisense RNA 1 (non-protein coding) | NR_024458, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| chromosome 1 open reading frame 112 | NM_018186, ENS | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 1 | NM_003033, NM | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 1 | NM_003033, NM | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 1 | NM_003033, NM | Coding | TRUE |
| DENN/MADD domain containing 2D | NM_024901, ENS | Coding | TRUE |
| DENN/MADD domain containing 2D | NM_024901, ENS | Coding | TRUE |
| DENN/MADD domain containing 2D | NM_024901, ENS | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| zinc finger, matrin-type 4 | NM_001135731, | Coding | TRUE |
| nucleobindin 2 | NM_005013, ENS | Coding | TRUE |
| nucleobindin 2 | NM_005013, ENS | Coding | TRUE |
| nucleobindin 2 | NM_005013, ENS | Coding | TRUE |
| nucleobindin 2 | NM_005013, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| glucocorticoid induced transcript 1 | NM_138426, ENS | Coding | TRUE |
| glucocorticoid induced transcript 1 | NM_138426, ENS | Coding | TRUE |
| glucocorticoid induced transcript 1 | NM_138426, ENS | Coding | TRUE |
| glucocorticoid induced transcript 1 | NM_138426, ENS | Coding | TRUE |
| glucocorticoid induced transcript 1 | NM_138426, ENS | Coding | TRUE |
| glucocorticoid induced transcript 1 | NM_138426, ENS | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| cathepsin C | NM_001114173, I | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| homeobox B6 | NM_018952, ENS | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| tryptophan rich basic protein | NM_001146218, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_001006666, I | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 4 (inducible form) | NM_001135653, I | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 4 (inducible form) | NM_001135653, I | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 4 (inducible form) | NM_001135653, I | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 4 (inducible form) | NM_001135653, I | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 4 (inducible form) | NM_001135653, I | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 4 (inducible form) | NM_001135653, I | Coding | TRUE |
| nerve growth factor (beta polypeptide) | NM_002506, ENS | Coding | TRUE |
| nerve growth factor (beta polypeptide) | NM_002506, ENS | Coding | TRUE |
| nerve growth factor (beta polypeptide) | NM_002506, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| nerve growth factor (beta polypeptide) | NM_002506, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| chemokine (C-X-C motif) ligand 13 | NM_006419, ENS | Coding | TRUE |
| chemokine (C-X-C motif) ligand 13 | NM_006419, ENS | Coding | TRUE |
| chemokine (C-X-C motif) ligand 13 | NM_006419, ENS | Coding | TRUE |
| chemokine (C-X-C motif) ligand 13 | NM_006419, ENS | Coding | TRUE |
| chemokine (C-X-C motif) ligand 13 | NM_006419, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| nuclear transcription factor, X-box binding-like 1 | NM_152995, ENS | Coding | TRUE |
| prolyl 4-hydroxylase, alpha polypeptide II | NM_001017973, | Coding | TRUE |
| prolyl 4-hydroxylase, alpha polypeptide II | NM_001017973, | Coding | TRUE |
| prolyl 4-hydroxylase, alpha polypeptide II | NM_001017973, | Coding | TRUE |
| prolyl 4-hydroxylase, alpha polypeptide II | NM_001017973, | Coding | TRUE |
| LMBR1 domain containing 1 | NM_018368, ENS | Coding | TRUE |
| LMBR1 domain containing 1 | NM_018368, ENS | Coding | TRUE |
| LMBR1 domain containing 1 | NM_018368, ENS | Coding | TRUE |
| LMBR1 domain containing 1 | NM_018368, ENS | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transpor | NM_032295, NM | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transpor | NM_032295, NM | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transpor | NM_032295, NM | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transpor | NM_032295, NM | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transpor | NM_032295, NM | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transpor | NM_032295, NM | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| endothelin converting enzyme 1 | NM_001113347, I | Coding | TRUE |
| SP140 nuclear body protein | NM_001005176, | Coding | TRUE |
| SP140 nuclear body protein | NM_001005176, | Coding | TRUE |
| SP140 nuclear body protein | NM_001005176, | Coding | TRUE |
| SP140 nuclear body protein | NM_001005176, | Coding | TRUE |

| | | | |
|--|----------------------------|--------|------|
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| MHC class I polypeptide-related sequence A | NM_000247, NR_001434 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| disabled homolog 2, mitogen-responsive phosphoprotein | NM_001244871 | Coding | TRUE |
| serine/threonine kinase 3 | NM_001256312 | Coding | TRUE |
| serine/threonine kinase 3 | NM_001256312 | Coding | TRUE |
| serine/threonine kinase 3 | NM_001256312 | Coding | TRUE |
| serine/threonine kinase 3 | NM_001256312 | Coding | TRUE |
| serine/threonine kinase 3 | NM_001256312 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase | NM_024642, ENSG00000180001 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase | NM_024642, ENSG00000180001 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase | NM_024642, ENSG00000180001 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase | NM_024642, ENSG00000180001 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| sterile alpha motif domain containing 4A | NM_001161576 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| tissue factor pathway inhibitor (lipoprotein-associated) | NM_001032281 | Coding | TRUE |
| ectodermal-neural cortex 1 (with BTB-like domain) | NM_003633, ENSG00000180001 | Coding | TRUE |
| ectodermal-neural cortex 1 (with BTB-like domain) | NM_003633, ENSG00000180001 | Coding | TRUE |
| ectodermal-neural cortex 1 (with BTB-like domain) | NM_003633, ENSG00000180001 | Coding | TRUE |
| SAM and SH3 domain containing 1 | NM_015278, ENSG00000180001 | Coding | TRUE |
| SAM and SH3 domain containing 1 | NM_015278, ENSG00000180001 | Coding | TRUE |

| | | | |
|--|-------------------|--------|------|
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| topoisomerase (DNA) II alpha 170kDa | NM_001067, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 56/58kDa, V1 sub | NM_001692, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 56/58kDa, V1 sub | NM_001692, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 56/58kDa, V1 sub | NM_001692, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 56/58kDa, V1 sub | NM_001692, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 56/58kDa, V1 sub | NM_001692, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-g | NM_002410, ENS | Coding | TRUE |
| mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-g | NM_002410, ENS | Coding | TRUE |
| mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-g | NM_002410, ENS | Coding | TRUE |
| mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-g | NM_002410, ENS | Coding | TRUE |
| mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-g | NM_002410, ENS | Coding | TRUE |
| carbohydrate (N-acetylglucosamine 6-O) sulfotransfer | NM_021615, ENS | Coding | TRUE |
| carbohydrate (N-acetylglucosamine 6-O) sulfotransfer | NM_021615, ENS | Coding | TRUE |
| carbohydrate (N-acetylglucosamine 6-O) sulfotransfer | NM_021615, ENS | Coding | TRUE |
| carbohydrate (N-acetylglucosamine 6-O) sulfotransfer | NM_021615, ENS | Coding | TRUE |
| carbohydrate (N-acetylglucosamine 6-O) sulfotransfer | NM_021615, ENS | Coding | TRUE |
| zinc finger protein 83 | NM_001105549, ENS | Coding | TRUE |
| zinc finger protein 83 | NM_001105549, ENS | Coding | TRUE |
| zinc finger protein 83 | NM_001105549, ENS | Coding | TRUE |
| zinc finger protein 83 | NM_001105549, ENS | Coding | TRUE |
| zinc finger protein 83 | NM_001105549, ENS | Coding | TRUE |
| zinc finger protein 83 | NM_001105549, ENS | Coding | TRUE |
| gamma-glutamyltransferase 7 | NM_178026, ENS | Coding | TRUE |
| gamma-glutamyltransferase 7 | NM_178026, ENS | Coding | TRUE |
| gamma-glutamyltransferase 7 | NM_178026, ENS | Coding | TRUE |
| gamma-glutamyltransferase 7 | NM_178026, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| phosphodiesterase 4D interacting protein, phosphodie | NM_001002810, ENS | Coding | TRUE |
| isthmin 2 homolog (zebrafish) | NM_182509, NM | Coding | TRUE |
| isthmin 2 homolog (zebrafish) | NM_182509, NM | Coding | TRUE |
| paraneoplastic Ma antigen 2 | NM_007257, ENS | Coding | TRUE |
| paraneoplastic Ma antigen 2 | NM_007257, ENS | Coding | TRUE |
| paraneoplastic Ma antigen 2 | NM_007257, ENS | Coding | TRUE |
| paraneoplastic Ma antigen 2 | NM_007257, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| fibroblast growth factor 13 | NM_001139498, | Coding | TRUE |
| uncharacterized LOC100506258 | ENST000005042 | Coding | TRUE |
| uncharacterized LOC100506258 | ENST000005042 | Coding | TRUE |
| uncharacterized LOC100506258 | ENST000005042 | Coding | TRUE |
| uncharacterized LOC100506258 | ENST000005042 | Coding | TRUE |
| uncharacterized LOC100506258 | ENST000005042 | Coding | TRUE |
| uncharacterized LOC100506258 | ENST000005042 | Coding | TRUE |
| potassium large conductance calcium-activated chann | NM_014505, ENS | Coding | TRUE |
| potassium large conductance calcium-activated chann | NM_014505, ENS | Coding | TRUE |
| potassium large conductance calcium-activated chann | NM_014505, ENS | Coding | TRUE |
| threonyl-tRNA synthetase-like 2 | NM_152334, ENS | Coding | TRUE |
| threonyl-tRNA synthetase-like 2 | NM_152334, ENS | Coding | TRUE |
| threonyl-tRNA synthetase-like 2 | NM_152334, ENS | Coding | TRUE |
| threonyl-tRNA synthetase-like 2 | NM_152334, ENS | Coding | TRUE |
| HECW1 intronic transcript 1 (non-protein coding) | ENST000003222 | Coding | TRUE |
| HECW1 intronic transcript 1 (non-protein coding) | ENST000003222 | Coding | TRUE |
| HECW1 intronic transcript 1 (non-protein coding) | ENST000003222 | Coding | TRUE |
| HECW1 intronic transcript 1 (non-protein coding) | ENST000003222 | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| mediator complex subunit 24 | NM_001079518, | Coding | TRUE |
| ELMO/CED-12 domain containing 3 | NM_001135021, | Coding | TRUE |
| ELMO/CED-12 domain containing 3 | NM_001135021, | Coding | TRUE |
| ELMO/CED-12 domain containing 3 | NM_001135021, | Coding | TRUE |
| ELMO/CED-12 domain containing 3 | NM_001135021, | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| LIM domains containing 1 | NM_014240, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| transmembrane protein 26 | NM_178505, ENS | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| v-ets erythroblastosis virus E26 oncogene homolog 1 | (NM_001162422, | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_014272, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_014272, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| Rho guanine nucleotide exchange factor (GEF) 37 | NM_001001669, | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 37 | NM_001001669, | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 37 | NM_001001669, | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 37 | NM_001001669, | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 37 | NM_001001669, | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| uncharacterized LOC100506674 | ENST000005031 | Coding | TRUE |
| transcriptional regulating factor 1 | NM_033502, ENS | Coding | TRUE |
| transcriptional regulating factor 1 | NM_033502, ENS | Coding | TRUE |
| transcriptional regulating factor 1 | NM_033502, ENS | Coding | TRUE |
| transcriptional regulating factor 1 | NM_033502, ENS | Coding | TRUE |
| transcriptional regulating factor 1 | NM_033502, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| formin binding protein 1 | NM_015033, ENS | Coding | TRUE |
| secreted frizzled-related protein 5 | NM_003015, ENS | Coding | TRUE |
| secreted frizzled-related protein 5 | NM_003015, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| suppressor of cytokine signaling 2 | NM_003877, ENS | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| immunoglobulin superfamily, member 23 | NM_001205280, | Coding | TRUE |
| xanthine dehydrogenase | NM_000379, ENS | Coding | TRUE |
| xanthine dehydrogenase | NM_000379, ENS | Coding | TRUE |
| xanthine dehydrogenase | NM_000379, ENS | Coding | TRUE |
| xanthine dehydrogenase | NM_000379, ENS | Coding | TRUE |
| RANBP2-like and GRIP domain containing 3 | NM_001144013, | Coding | TRUE |
| RANBP2-like and GRIP domain containing 3 | NM_001144013, | Coding | TRUE |
| zinc finger, CW type with PWWP domain 2 | NM_001040432, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| scinderin | NM_001112706, | Coding | TRUE |
| long intergenic non-protein coding RNA 87 | NR_024493, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 87 | NR_024493, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 87 | NR_024493, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 87 | NR_024493, ENS | Coding | TRUE |
| integrin, beta-like 1 (with EGF-like repeat domains) | NM_004791, ENS | Coding | TRUE |
| integrin, beta-like 1 (with EGF-like repeat domains) | NM_004791, ENS | Coding | TRUE |
| integrin, beta-like 1 (with EGF-like repeat domains) | NM_004791, ENS | Coding | TRUE |
| integrin, beta-like 1 (with EGF-like repeat domains) | NM_004791, ENS | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) complex I, assem | NM_001039375, | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) complex I, assem | NM_001039375, | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) complex I, assem | NM_001039375, | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) complex I, assem | NM_001039375, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| ventricular zone expressed PH domain homolog 1 (zel | NM_001167917, | Coding | TRUE |
| 5-nucleotidase, ecto (CD73) | NM_001204813, | Coding | TRUE |
| 5-nucleotidase, ecto (CD73) | NM_001204813, | Coding | TRUE |
| 5-nucleotidase, ecto (CD73) | NM_001204813, | Coding | TRUE |
| 5-nucleotidase, ecto (CD73) | NM_001204813, | Coding | TRUE |
| 5-nucleotidase, ecto (CD73) | NM_001204813, | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| family with sequence similarity 110, member B | NM_147189, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 7 | NM_017780, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 7 | NM_017780, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 7 | NM_017780, ENS | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| protein kinase, DNA-activated, catalytic polypeptide | NM_006904, NM | Coding | TRUE |
| | | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| stimulated by retinoic acid gene 6 homolog (mouse) | NM_001142617, | Coding | TRUE |
| stimulated by retinoic acid gene 6 homolog (mouse) | NM_001142617, | Coding | TRUE |
| stimulated by retinoic acid gene 6 homolog (mouse) | NM_001142617, | Coding | TRUE |
| stimulated by retinoic acid gene 6 homolog (mouse) | NM_001142617, | Coding | TRUE |
| C-type lectin domain family 18, member B | NM_001011880, | Coding | TRUE |
| C-type lectin domain family 18, member B | NM_001011880, | Coding | TRUE |
| C-type lectin domain family 18, member B | NM_001011880, | Coding | TRUE |
| C-type lectin domain family 18, member B | NM_001011880, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| abhydrolase domain containing 12 | NM_001042472, | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 1B | NM_032449, ENS | Coding | TRUE |
| P450 (cytochrome) oxidoreductase, microRNA 4651 | NM_000941, NR | Coding | TRUE |
| P450 (cytochrome) oxidoreductase, microRNA 4651 | NM_000941, NR | Coding | TRUE |
| P450 (cytochrome) oxidoreductase, microRNA 4651 | NM_000941, NR | Coding | TRUE |
| P450 (cytochrome) oxidoreductase, microRNA 4651 | NM_000941, NR | Coding | TRUE |
| carbonic anhydrase XI | NM_001217, ENS | Coding | TRUE |
| carbonic anhydrase XI | NM_001217, ENS | Coding | TRUE |
| carbonic anhydrase XI | NM_001217, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| adenylate cyclase 3 | NM_004036, ENS | Coding | TRUE |
| superkiller viralicidic activity 2-like (<i>S. cerevisiae</i>) | NM_006929, ENS | Coding | TRUE |
| superkiller viralicidic activity 2-like (<i>S. cerevisiae</i>) | NM_006929, ENS | Coding | TRUE |
| superkiller viralicidic activity 2-like (<i>S. cerevisiae</i>) | NM_006929, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| Williams Beuren syndrome chromosome region 22 | NM_001202560, | Coding | TRUE |
| Williams Beuren syndrome chromosome region 22 | NM_001202560, | Coding | TRUE |
| Williams Beuren syndrome chromosome region 22 | NM_001202560, | Coding | TRUE |
| Williams Beuren syndrome chromosome region 22 | NM_001202560, | Coding | TRUE |
| AT-hook transcription factor | NM_030767, ENS | Coding | TRUE |
| AT-hook transcription factor | NM_030767, ENS | Coding | TRUE |
| AT-hook transcription factor | NM_030767, ENS | Coding | TRUE |
| AT-hook transcription factor | NM_030767, ENS | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_004555, NM | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_004555, NM | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_004555, NM | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_004555, NM | Coding | TRUE |
| sperm associated antigen 9 | NM_001130528, | Coding | TRUE |
| sperm associated antigen 9 | NM_001130528, | Coding | TRUE |
| sperm associated antigen 9 | NM_001130528, | Coding | TRUE |
| sperm associated antigen 9 | NM_001130528, | Coding | TRUE |
| sperm associated antigen 9 | NM_001130528, | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase kinase | NM_001042600, | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase kinase | NM_001042600, | Coding | TRUE |
| neuroblastoma breakpoint family, member 3, uncharac | NM_001256416, | Coding | TRUE |
| neuroblastoma breakpoint family, member 3, uncharac | NM_001256416, | Coding | TRUE |
| neuroblastoma breakpoint family, member 3, uncharac | NM_001256416, | Coding | TRUE |
| neuroblastoma breakpoint family, member 3, uncharac | NM_001256416, | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| receptor (G protein-coupled) activity modifying protein | NM_005855, ENS | Coding | TRUE |
| ubiquitin specific peptidase 34 | NM_014709, ENS | Coding | TRUE |
| ubiquitin specific peptidase 34 | NM_014709, ENS | Coding | TRUE |
| ubiquitin specific peptidase 34 | NM_014709, ENS | Coding | TRUE |
| uncharacterized LOC100302640 | NR_028303, ENS | Coding | TRUE |
| uncharacterized LOC100302640 | NR_028303, ENS | Coding | TRUE |
| uncharacterized LOC100302640 | NR_028303, ENS | Coding | TRUE |
| uncharacterized LOC100302640 | NR_028303, ENS | Coding | TRUE |
| uncharacterized LOC100302640 | NR_028303, ENS | Coding | TRUE |
| tubulin tyrosine ligase-like family, member 3 | NM_001025930, | Coding | TRUE |
| tubulin tyrosine ligase-like family, member 3 | NM_001025930, | Coding | TRUE |
| tubulin tyrosine ligase-like family, member 3 | NM_001025930, | Coding | TRUE |
| tubulin tyrosine ligase-like family, member 3 | NM_001025930, | Coding | TRUE |
| tubulin tyrosine ligase-like family, member 3 | NM_001025930, | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| sema domain, seven thrombospondin repeats (type 1 | NM_003966, ENS | Coding | TRUE |
| HEAT repeat containing 7A, HEAT repeat-containing p | NM_001099280, | Coding | TRUE |
| HEAT repeat containing 7A, HEAT repeat-containing p | NM_001099280, | Coding | TRUE |
| HEAT repeat containing 7A, HEAT repeat-containing p | NM_001099280, | Coding | TRUE |
| HEAT repeat containing 7A, HEAT repeat-containing p | NM_001099280, | Coding | TRUE |
| HEAT repeat containing 7A, HEAT repeat-containing p | NM_001099280, | Coding | TRUE |
| acyl-CoA binding domain containing 5 | NM_001042473, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| acyl-CoA binding domain containing 5 | NM_001042473, | Coding | TRUE |
| acyl-CoA binding domain containing 5 | NM_001042473, | Coding | TRUE |
| acyl-CoA binding domain containing 5 | NM_001042473, | Coding | TRUE |
| acyl-CoA binding domain containing 5 | NM_001042473, | Coding | TRUE |
| acyl-CoA binding domain containing 5 | NM_001042473, | Coding | TRUE |
| heme oxygenase (decycling) 1 | NM_002133, ENS | Coding | TRUE |
| heme oxygenase (decycling) 1 | NM_002133, ENS | Coding | TRUE |
| heme oxygenase (decycling) 1 | NM_002133, ENS | Coding | TRUE |
| heme oxygenase (decycling) 1 | NM_002133, ENS | Coding | TRUE |
| heme oxygenase (decycling) 1 | NM_002133, ENS | Coding | TRUE |
| heme oxygenase (decycling) 1 | NM_002133, ENS | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| transferrin receptor (p90, CD71) | NM_001128148, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| olfactomedin 1 | NM_006334, NM | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| cyclin-dependent kinase inhibitor 2A | NM_058195, NM | Coding | TRUE |
| cyclin-dependent kinase inhibitor 2A | NM_058195, NM | Coding | TRUE |
| nuclear transcription factor Y, gamma | NM_001142587, | Coding | TRUE |
| nuclear transcription factor Y, gamma | NM_001142587, | Coding | TRUE |
| nuclear transcription factor Y, gamma | NM_001142587, | Coding | TRUE |
| nuclear transcription factor Y, gamma | NM_001142587, | Coding | TRUE |
| nuclear transcription factor Y, gamma | NM_001142587, | Coding | TRUE |
| nuclear transcription factor Y, gamma | NM_001142587, | Coding | TRUE |
| ADAM metallopeptidase domain 15 | NM_003815, NM | Coding | TRUE |
| ADAM metallopeptidase domain 15 | NM_003815, NM | Coding | TRUE |
| ADAM metallopeptidase domain 15 | NM_003815, NM | Coding | TRUE |
| ADAM metallopeptidase domain 15 | NM_003815, NM | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| La ribonucleoprotein domain family, member 4 | NM_001170803, | Coding | TRUE |
| La ribonucleoprotein domain family, member 4 | NM_001170803, | Coding | TRUE |
| La ribonucleoprotein domain family, member 4 | NM_001170803, | Coding | TRUE |
| La ribonucleoprotein domain family, member 4 | NM_001170803, | Coding | TRUE |
| La ribonucleoprotein domain family, member 4 | NM_001170803, | Coding | TRUE |
| WD repeat domain 62 | NM_001083961, | Coding | TRUE |
| WD repeat domain 62 | NM_001083961, | Coding | TRUE |
| WD repeat domain 62 | NM_001083961, | Coding | TRUE |
| neurotrophic tyrosine kinase, receptor, type 1 | NM_001007792, | Coding | TRUE |
| neurotrophic tyrosine kinase, receptor, type 1 | NM_001007792, | Coding | TRUE |
| neurotrophic tyrosine kinase, receptor, type 1 | NM_001007792, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| erythrocyte membrane protein band 4.1 like 5 | NM_001184937, | Coding | TRUE |
| solute carrier family 35, member F5 | NM_025181, ENS | Coding | TRUE |
| solute carrier family 35, member F5 | NM_025181, ENS | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II delta | NM_172127, NM | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II delta | NM_172127, NM | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II delta | NM_172127, NM | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II delta | NM_172127, NM | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyl transferase 1 | NM_001114617, I | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyl transferase 1 | NM_001114617, I | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyl transferase 1 | NM_001114617, I | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, ENS | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, ENS | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, ENS | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, ENS | Coding | TRUE |
| lectin, galactoside-binding, soluble, 4 | NM_006149, ENS | Coding | TRUE |
| lectin, galactoside-binding, soluble, 4 | NM_006149, ENS | Coding | TRUE |
| ribosomal protein L23a pseudogene 82, ribosomal protein L23a pseudogene 82 | NR_026981, NR | Coding | TRUE |
| ribosomal protein L23a pseudogene 82, ribosomal protein L23a pseudogene 82 | NR_026981, NR | Coding | TRUE |
| ribosomal protein L23a pseudogene 82, ribosomal protein L23a pseudogene 82 | NR_026981, NR | Coding | TRUE |
| ribosomal protein L23a pseudogene 82, ribosomal protein L23a pseudogene 82 | NR_026981, NR | Coding | TRUE |
| ribosomal protein L23a pseudogene 82, ribosomal protein L23a pseudogene 82 | NR_026981, NR | Coding | TRUE |
| ribosomal protein L23a pseudogene 82, ribosomal protein L23a pseudogene 82 | NR_026981, NR | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| odz, odd Oz/ten-m homolog 3 (Drosophila) | NM_001080477, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 3 (Drosophila) | NM_001080477, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 3 (Drosophila) | NM_001080477, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 3 (Drosophila) | NM_001080477, | Coding | TRUE |
| Rho GTPase activating protein 26 | NM_001135608, I | Coding | TRUE |
| Rho GTPase activating protein 26 | NM_001135608, I | Coding | TRUE |
| Rho GTPase activating protein 26 | NM_001135608, I | Coding | TRUE |
| Rho GTPase activating protein 26 | NM_001135608, I | Coding | TRUE |
| Rho GTPase activating protein 26 | NM_001135608, I | Coding | TRUE |
| uncharacterized LOC283299 | NR_036678, ENS | Coding | TRUE |
| uncharacterized LOC283299 | NR_036678, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| long intergenic non-protein coding RNA 85 | NR_024330, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| psoriasis susceptibility 1 candidate 1 | NM_014068, BC1 | Coding | TRUE |
| zinc finger, MYM-type 1 | NM_024772, ENS | Coding | TRUE |
| zinc finger, MYM-type 1 | NM_024772, ENS | Coding | TRUE |
| zinc finger, MYM-type 1 | NM_024772, ENS | Coding | TRUE |
| zinc finger, MYM-type 1 | NM_024772, ENS | Coding | TRUE |
| zinc finger, MYM-type 1 | NM_024772, ENS | Coding | TRUE |
| histocompatibility antigen-related, major histocompatib | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related, major histocompatib | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related, major histocompatib | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related, major histocompatib | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related, major histocompatib | NM_001207043, | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751, ENS | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| outer dense fiber of sperm tails 2 | NM_001242352, | Coding | TRUE |
| polymerase (DNA-directed), delta 3, accessory subuni | NM_006591, BC1 | Coding | TRUE |
| polymerase (DNA-directed), delta 3, accessory subuni | NM_006591, BC1 | Coding | TRUE |
| polymerase (DNA-directed), delta 3, accessory subuni | NM_006591, BC1 | Coding | TRUE |
| uncharacterized LOC100506869 | ENST000005469 | Coding | TRUE |
| uncharacterized LOC100506869 | ENST000005469 | Coding | TRUE |
| SOCS2 antisense RNA 1 (non-protein coding) | NR_038263, ENS | Coding | TRUE |
| SOCS2 antisense RNA 1 (non-protein coding) | NR_038263, ENS | Coding | TRUE |
| SOCS2 antisense RNA 1 (non-protein coding) | NR_038263, ENS | Coding | TRUE |
| SOCS2 antisense RNA 1 (non-protein coding) | NR_038263, ENS | Coding | TRUE |
| SOCS2 antisense RNA 1 (non-protein coding) | NR_038263, ENS | Coding | TRUE |
| zinc finger and BTB domain containing 46 | NM_025224, ENS | Coding | TRUE |
| zinc finger and BTB domain containing 46 | NM_025224, ENS | Coding | TRUE |
| chromosome 1 open reading frame 110 | NM_178550, ENS | Coding | TRUE |
| chromosome 1 open reading frame 110 | NM_178550, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| chromosome 1 open reading frame 110 | NM_178550, ENS | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| spondin 2, extracellular matrix protein, uncharacterized | NM_001128325, | Coding | TRUE |
| zinc finger protein 596 | NM_001042415, | Coding | TRUE |
| zinc finger protein 596 | NM_001042415, | Coding | TRUE |
| zinc finger protein 596 | NM_001042415, | Coding | TRUE |
| zinc finger protein 596 | NM_001042415, | Coding | TRUE |
| zinc finger protein 596 | NM_001042415, | Coding | TRUE |
| zinc finger protein 596 | NM_001042415, | Coding | TRUE |
| A kinase (PRKA) anchor protein 6 | NM_004274, ENS | Coding | TRUE |
| A kinase (PRKA) anchor protein 6 | NM_004274, ENS | Coding | TRUE |
| A kinase (PRKA) anchor protein 6 | NM_004274, ENS | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| unkempt homolog (Drosophila)-like | NM_001037125, | Coding | TRUE |
| alkB, alkylation repair homolog 5 (E. coli), uncharacter | NM_017758, ENS | Coding | TRUE |
| alkB, alkylation repair homolog 5 (E. coli), uncharacter | NM_017758, ENS | Coding | TRUE |
| alkB, alkylation repair homolog 5 (E. coli), uncharacter | NM_017758, ENS | Coding | TRUE |
| alkB, alkylation repair homolog 5 (E. coli), uncharacter | NM_017758, ENS | Coding | TRUE |
| alkB, alkylation repair homolog 5 (E. coli), uncharacter | NM_017758, ENS | Coding | TRUE |
| alkB, alkylation repair homolog 5 (E. coli), uncharacter | NM_017758, ENS | Coding | TRUE |
| PC-esterase domain containing 1A | NM_022760, ENS | Coding | TRUE |
| PC-esterase domain containing 1A | NM_022760, ENS | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| protocadherin gamma subfamily C, 4, protocadherin g | BC101038, BC10 | Coding | TRUE |
| frizzled family receptor 6 | NM_001164615, | Coding | TRUE |
| frizzled family receptor 6 | NM_001164615, | Coding | TRUE |
| transcription elongation factor B (SIII), polypeptide 1 (1 | NM_001204857, | Coding | TRUE |
| transcription elongation factor B (SIII), polypeptide 1 (1 | NM_001204857, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| NDRG family member 4 | NM_001130487, | Coding | TRUE |
| zinc finger protein 792 | NM_175872, ENS | Coding | TRUE |
| zinc finger protein 792 | NM_175872, ENS | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001161354, | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001161354, | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001161354, | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001161354, | Coding | TRUE |
| integrin beta 3 binding protein (beta3-endonexin) | NM_001206739, | Coding | TRUE |
| integrin beta 3 binding protein (beta3-endonexin) | NM_001206739, | Coding | TRUE |
| integrin beta 3 binding protein (beta3-endonexin) | NM_001206739, | Coding | TRUE |
| integrin beta 3 binding protein (beta3-endonexin) | NM_001206739, | Coding | TRUE |
| integrin beta 3 binding protein (beta3-endonexin) | NM_001206739, | Coding | TRUE |
| integrin beta 3 binding protein (beta3-endonexin) | NM_001206739, | Coding | TRUE |
| exportin 7 | NM_015024, ENS | Coding | TRUE |
| exportin 7 | NM_015024, ENS | Coding | TRUE |
| exportin 7 | NM_015024, ENS | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| dynein, cytoplasmic 2, heavy chain 1 | NM_001377, NM | Coding | TRUE |
| ring finger protein 111 | NM_017610, ENS | Coding | TRUE |
| ring finger protein 111 | NM_017610, ENS | Coding | TRUE |
| ring finger protein 111 | NM_017610, ENS | Coding | TRUE |
| ring finger protein 111 | NM_017610, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| ecotropic viral integration site 2B | NM_006495, ENS | Coding | TRUE |
| ecotropic viral integration site 2B | NM_006495, ENS | Coding | TRUE |
| ecotropic viral integration site 2B | NM_006495, ENS | Coding | TRUE |
| metallophosphoesterase domain containing 2 | NM_001145399, | Coding | TRUE |
| metallophosphoesterase domain containing 2 | NM_001145399, | Coding | TRUE |
| metallophosphoesterase domain containing 2 | NM_001145399, | Coding | TRUE |
| metallophosphoesterase domain containing 2 | NM_001145399, | Coding | TRUE |
| pseudouridylate synthase 7 homolog (S. cerevisiae)-lik | NM_001098614, | Coding | TRUE |
| pseudouridylate synthase 7 homolog (S. cerevisiae)-lik | NM_001098614, | Coding | TRUE |
| testis expressed 9 | NM_198524, ENS | Coding | TRUE |
| testis expressed 9 | NM_198524, ENS | Coding | TRUE |

| | | | |
|---|-------------------|--------|------|
| dipeptidyl-peptidase 4 | NM_001935, ENS | Coding | TRUE |
| dipeptidyl-peptidase 4 | NM_001935, ENS | Coding | TRUE |
| dipeptidyl-peptidase 4 | NM_001935, ENS | Coding | TRUE |
| dipeptidyl-peptidase 4 | NM_001935, ENS | Coding | TRUE |
| dipeptidyl-peptidase 4 | NM_001935, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| zinc finger protein, multitype 2 | NM_012082, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 3 | NM_173199, NM | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 3 | NM_173199, NM | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 3 | NM_173199, NM | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 3 | NM_173199, NM | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 3 | NM_173199, NM | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 3 | NM_173199, NM | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| inositol 1,4,5-trisphosphate receptor, type 2 | NM_002223, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| oxysterol binding protein-like 1A | NM_001242508, ENS | Coding | TRUE |
| zinc finger protein 615 | NM_001199324, ENS | Coding | TRUE |
| zinc finger protein 615 | NM_001199324, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| spermatogenesis associated 17 | NM_138796, ENS | Coding | TRUE |
| ribosomal protein L9 | NM_000661, NM | Coding | TRUE |
| ribosomal protein L9 | NM_000661, NM | Coding | TRUE |
| ribosomal protein L9 | NM_000661, NM | Coding | TRUE |
| ribosomal protein L9 | NM_000661, NM | Coding | TRUE |
| ribosomal protein L9 | NM_000661, NM | Coding | TRUE |
| single-stranded DNA binding protein 2 | NM_012446, ENS | Coding | TRUE |
| single-stranded DNA binding protein 2 | NM_012446, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |

| | | | |
|---|-------------------|--------|------|
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| cullin 9 | NM_015089, ENS | Coding | TRUE |
| microcephalin 1 | NM_001172574, ENS | Coding | TRUE |
| microcephalin 1 | NM_001172574, ENS | Coding | TRUE |
| microcephalin 1 | NM_001172574, ENS | Coding | TRUE |
| microcephalin 1 | NM_001172574, ENS | Coding | TRUE |
| microcephalin 1 | NM_001172574, ENS | Coding | TRUE |
| microcephalin 1 | NM_001172574, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| KIAA0146 | NM_001080394, ENS | Coding | TRUE |
| plectin | NM_201380, NM | Coding | TRUE |
| plectin | NM_201380, NM | Coding | TRUE |
| plectin | NM_201380, NM | Coding | TRUE |
| plectin | NM_201380, NM | Coding | TRUE |
| zinc finger protein 106 homolog (mouse) | NM_022473, ENS | Coding | TRUE |
| zinc finger protein 106 homolog (mouse) | NM_022473, ENS | Coding | TRUE |
| C-type lectin domain family 18, member C | NM_173619, ENS | Coding | TRUE |
| C-type lectin domain family 18, member C | NM_173619, ENS | Coding | TRUE |
| C-type lectin domain family 18, member C | NM_173619, ENS | Coding | TRUE |
| C-type lectin domain family 18, member C | NM_173619, ENS | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20 | NM_024407, ENS | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20 | NM_024407, ENS | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20 | NM_024407, ENS | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| phosphogluconate dehydrogenase | NM_002631, ENS | Coding | TRUE |
| phosphogluconate dehydrogenase | NM_002631, ENS | Coding | TRUE |
| phosphogluconate dehydrogenase | NM_002631, ENS | Coding | TRUE |
| tRNA methyltransferase 1 homolog (S. cerevisiae)-like | NM_001202423, ENS | Coding | TRUE |
| tRNA methyltransferase 1 homolog (S. cerevisiae)-like | NM_001202423, ENS | Coding | TRUE |
| tRNA methyltransferase 1 homolog (S. cerevisiae)-like | NM_001202423, ENS | Coding | TRUE |
| chloride channel, voltage-sensitive Kb | NM_000085, NM | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| neurofibromin 1 | NM_000267, NM | Coding | TRUE |
| vacuolar protein sorting 53 homolog (S. cerevisiae) | NM_018289, NM | Coding | TRUE |
| vacuolar protein sorting 53 homolog (S. cerevisiae) | NM_018289, NM | Coding | TRUE |
| vacuolar protein sorting 53 homolog (S. cerevisiae) | NM_018289, NM | Coding | TRUE |
| vacuolar protein sorting 53 homolog (S. cerevisiae) | NM_018289, NM | Coding | TRUE |
| vacuolar protein sorting 53 homolog (S. cerevisiae) | NM_018289, NM | Coding | TRUE |
| G elongation factor, mitochondrial 1 | NM_024996, ENS | Coding | TRUE |
| G elongation factor, mitochondrial 1 | NM_024996, ENS | Coding | TRUE |
| G elongation factor, mitochondrial 1 | NM_024996, ENS | Coding | TRUE |
| G elongation factor, mitochondrial 1 | NM_024996, ENS | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| myosin, light chain 5, regulatory | NM_002477, BCC | Coding | TRUE |
| rhopilin associated tail protein 1-like | NM_001201466, | Coding | TRUE |
| rhopilin associated tail protein 1-like | NM_001201466, | Coding | TRUE |
| rhopilin associated tail protein 1-like | NM_001201466, | Coding | TRUE |
| polymerase (DNA directed) kappa | NM_016218, ENS | Coding | TRUE |
| polymerase (DNA directed) kappa | NM_016218, ENS | Coding | TRUE |
| polymerase (DNA directed) kappa | NM_016218, ENS | Coding | TRUE |
| polymerase (DNA directed) kappa | NM_016218, ENS | Coding | TRUE |
| polymerase (DNA directed) kappa | NM_016218, ENS | Coding | TRUE |
| collagen, type XII, alpha 1 | NM_004370, NM | Coding | TRUE |
| collagen, type XII, alpha 1 | NM_004370, NM | Coding | TRUE |
| collagen, type XII, alpha 1 | NM_004370, NM | Coding | TRUE |
| collagen, type XII, alpha 1 | NM_004370, NM | Coding | TRUE |
| collagen, type XII, alpha 1 | NM_004370, NM | Coding | TRUE |
| ATP-binding cassette, sub-family C (CFTR/MRP), men | NM_000392, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family C (CFTR/MRP), men | NM_000392, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family C (CFTR/MRP), men | NM_000392, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family C (CFTR/MRP), men | NM_000392, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family C (CFTR/MRP), men | NM_000392, ENS | Coding | TRUE |
| KIAA1598 | NM_001127211, I | Coding | TRUE |
| KIAA1598 | NM_001127211, I | Coding | TRUE |
| KIAA1598 | NM_001127211, I | Coding | TRUE |
| KIAA1598 | NM_001127211, I | Coding | TRUE |
| KIAA1598 | NM_001127211, I | Coding | TRUE |
| KIAA1598 | NM_001127211, I | Coding | TRUE |
| leucine zipper protein 2 | NM_001009909, | Coding | TRUE |
| leucine zipper protein 2 | NM_001009909, | Coding | TRUE |
| leucine zipper protein 2 | NM_001009909, | Coding | TRUE |
| leucine zipper protein 2 | NM_001009909, | Coding | TRUE |

| | | | |
|--|------------------|--------|------|
| galactosylceramidase | NM_000153, NM | Coding | TRUE |
| galactosylceramidase | NM_000153, NM | Coding | TRUE |
| galactosylceramidase | NM_000153, NM | Coding | TRUE |
| chemokine (C-X-C motif) ligand 16 | NM_022059, NM | Coding | TRUE |
| chemokine (C-X-C motif) ligand 16 | NM_022059, NM | Coding | TRUE |
| chemokine (C-X-C motif) ligand 16 | NM_022059, NM | Coding | TRUE |
| chemokine (C-X-C motif) ligand 16 | NM_022059, NM | Coding | TRUE |
| chemokine (C-X-C motif) ligand 16 | NM_022059, NM | Coding | TRUE |
| chemokine (C-X-C motif) ligand 16 | NM_022059, NM | Coding | TRUE |
| enoyl CoA hydratase domain containing 2 | NM_001198961, NM | Coding | TRUE |
| enoyl CoA hydratase domain containing 2 | NM_001198961, NM | Coding | TRUE |
| enoyl CoA hydratase domain containing 2 | NM_001198961, NM | Coding | TRUE |
| enoyl CoA hydratase domain containing 2 | NM_001198961, NM | Coding | TRUE |
| SP110 nuclear body protein | NM_001185015, NM | Coding | TRUE |
| SP110 nuclear body protein | NM_001185015, NM | Coding | TRUE |
| carbonyl reductase 4 | NM_032783, ENS | Coding | TRUE |
| carbonyl reductase 4 | NM_032783, ENS | Coding | TRUE |
| carbonyl reductase 4 | NM_032783, ENS | Coding | TRUE |
| carbonyl reductase 4 | NM_032783, ENS | Coding | TRUE |
| minichromosome maintenance complex component 7 | NM_182776, NM | Coding | TRUE |
| minichromosome maintenance complex component 7 | NM_182776, NM | Coding | TRUE |
| minichromosome maintenance complex component 7 | NM_182776, NM | Coding | TRUE |
| minichromosome maintenance complex component 7 | NM_182776, NM | Coding | TRUE |
| minichromosome maintenance complex component 7 | NM_182776, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| zinc finger protein 36, C3H type-like 1 | NM_001244698, NM | Coding | TRUE |
| ubiquitin specific peptidase 43 | NM_153210, ENS | Coding | TRUE |
| ubiquitin specific peptidase 43 | NM_153210, ENS | Coding | TRUE |
| ubiquitin specific peptidase 43 | NM_153210, ENS | Coding | TRUE |
| family with sequence similarity 76, member A | NM_001143912, NM | Coding | TRUE |
| family with sequence similarity 76, member A | NM_001143912, NM | Coding | TRUE |
| zinc finger, DHHC-type containing 15 | NM_001146256, NM | Coding | TRUE |
| zinc finger, DHHC-type containing 15 | NM_001146256, NM | Coding | TRUE |
| zinc finger, DHHC-type containing 15 | NM_001146256, NM | Coding | TRUE |
| SHC (Src homology 2 domain containing) family, mem | NM_203349, ENS | Coding | TRUE |
| SHC (Src homology 2 domain containing) family, mem | NM_203349, ENS | Coding | TRUE |
| SHC (Src homology 2 domain containing) family, mem | NM_203349, ENS | Coding | TRUE |
| uncharacterized LOC644838 | NR_038844, ENS | Coding | TRUE |
| uncharacterized LOC644838 | NR_038844, ENS | Coding | TRUE |
| stabilin 1 | NM_015136, ENS | Coding | TRUE |
| stabilin 1 | NM_015136, ENS | Coding | TRUE |
| stabilin 1 | NM_015136, ENS | Coding | TRUE |
| stabilin 1 | NM_015136, ENS | Coding | TRUE |
| stabilin 1 | NM_015136, ENS | Coding | TRUE |
| oxytocin receptor | NM_000916, ENS | Coding | TRUE |
| oxytocin receptor | NM_000916, ENS | Coding | TRUE |
| oxytocin receptor | NM_000916, ENS | Coding | TRUE |
| oxytocin receptor | NM_000916, ENS | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, NM | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, NM | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, NM | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| fibroblast growth factor 1 (acidic) | NM_001144892, | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, | Coding | TRUE |
| fibroblast growth factor 1 (acidic) | NM_001144892, | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| pleckstrin homology domain interacting protein | NM_017934, ENS | Coding | TRUE |
| complement component 1, s subcomponent | NM_001734, NM, | Coding | TRUE |
| complement component 1, s subcomponent | NM_001734, NM, | Coding | TRUE |
| complement component 1, s subcomponent | NM_001734, NM, | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| SR-related CTD-associated factor 11 | NM_004719, ENS | Coding | TRUE |
| ribonucleotide reductase M2 | NM_001034, NM, | Coding | TRUE |
| ribonucleotide reductase M2 | NM_001034, NM, | Coding | TRUE |
| ribonucleotide reductase M2 | NM_001034, NM, | Coding | TRUE |
| ribonucleotide reductase M2 | NM_001034, NM, | Coding | TRUE |
| ribonucleotide reductase M2 | NM_001034, NM, | Coding | TRUE |
| ribonucleotide reductase M2 | NM_001034, NM, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 2 | NM_001378, ENS | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 2 | NM_001378, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase | NM_001349, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase | NM_001349, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase | NM_001349, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase | NM_001349, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase | NM_001349, ENS | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| synaptojanin 2 | NM_001178088, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| thromboxane A synthase 1 (platelet) | NM_001061, NM, | Coding | TRUE |
| WD repeat domain 11, uncharacterized LOC10050615 | NM_018117, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| spermine oxidase | NM_175839, NM | Coding | TRUE |
| spermine oxidase | NM_175839, NM | Coding | TRUE |
| spermine oxidase | NM_175839, NM | Coding | TRUE |
| spermine oxidase | NM_175839, NM | Coding | TRUE |
| meiosis inhibitor 1 | NM_152513, ENS | Coding | TRUE |
| meiosis inhibitor 1 | NM_152513, ENS | Coding | TRUE |
| meiosis inhibitor 1 | NM_152513, ENS | Coding | TRUE |
| meiosis inhibitor 1 | NM_152513, ENS | Coding | TRUE |
| meiosis inhibitor 1 | NM_152513, ENS | Coding | TRUE |
| neuronal pentraxin receptor | NM_014293, ENS | Coding | TRUE |
| neuronal pentraxin receptor | NM_014293, ENS | Coding | TRUE |
| neuronal pentraxin receptor | NM_014293, ENS | Coding | TRUE |
| serine/threonine kinase 36 | NM_001243313, | Coding | TRUE |
| serine/threonine kinase 36 | NM_001243313, | Coding | TRUE |
| serine/threonine kinase 36 | NM_001243313, | Coding | TRUE |
| serine/threonine kinase 36 | NM_001243313, | Coding | TRUE |
| serine/threonine kinase 36 | NM_001243313, | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57 | NM_198963, ENS | Coding | TRUE |
| thyroid hormone receptor interactor 12 | NM_004238, BC1 | Coding | TRUE |
| thyroid hormone receptor interactor 12 | NM_004238, BC1 | Coding | TRUE |
| thyroid hormone receptor interactor 12 | NM_004238, BC1 | Coding | TRUE |
| thyroid hormone receptor interactor 12 | NM_004238, BC1 | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| three prime repair exonuclease 1, ATR interacting prot | NM_016381, NM | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| PR domain containing 8 | NM_001099403, | Coding | TRUE |
| mitochondrial ribosomal protein S28 | NM_014018, ENS | Coding | TRUE |
| mitochondrial ribosomal protein S28 | NM_014018, ENS | Coding | TRUE |
| aquaporin 3 (Gill blood group) | NM_004925, ENS | Coding | TRUE |
| aquaporin 3 (Gill blood group) | NM_004925, ENS | Coding | TRUE |
| aquaporin 3 (Gill blood group) | NM_004925, ENS | Coding | TRUE |
| aldo-keto reductase family 1, member E2 | NM_001040177, | Coding | TRUE |
| aldo-keto reductase family 1, member E2 | NM_001040177, | Coding | TRUE |
| aldo-keto reductase family 1, member E2 | NM_001040177, | Coding | TRUE |
| aldo-keto reductase family 1, member E2 | NM_001040177, | Coding | TRUE |
| aldo-keto reductase family 1, member E2 | NM_001040177, | Coding | TRUE |
| aldo-keto reductase family 1, member E2 | NM_001040177, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_019043, ENS | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| dynein heavy chain domain 1 | NM_144666, NM | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| ataxin 3 | NM_001127696, | Coding | TRUE |
| hypoxia inducible factor 3, alpha subunit | NM_022462, NM | Coding | TRUE |
| hypoxia inducible factor 3, alpha subunit | NM_022462, NM | Coding | TRUE |
| hypoxia inducible factor 3, alpha subunit | NM_022462, NM | Coding | TRUE |
| hypoxia inducible factor 3, alpha subunit | NM_022462, NM | Coding | TRUE |
| hypoxia inducible factor 3, alpha subunit | NM_022462, NM | Coding | TRUE |
| hypoxia inducible factor 3, alpha subunit | NM_022462, NM | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, r | NM_001243965, | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, r | NM_001243965, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| solute carrier family 41, member 3 | NM_001008485, | Coding | TRUE |
| phosphodiesterase 5A, cGMP-specific | NM_001083, NM | Coding | TRUE |
| phosphodiesterase 5A, cGMP-specific | NM_001083, NM | Coding | TRUE |
| phosphodiesterase 5A, cGMP-specific | NM_001083, NM | Coding | TRUE |
| phosphodiesterase 5A, cGMP-specific | NM_001083, NM | Coding | TRUE |
| phosphodiesterase 5A, cGMP-specific | NM_001083, NM | Coding | TRUE |
| phosphodiesterase 5A, cGMP-specific | NM_001083, NM | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |

| | | | |
|---|-------------------|--------|------|
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudogene) | NR_001434 | Coding | TRUE |
| nibrin | NM_002485, ENS | Coding | TRUE |
| nibrin | NM_002485, ENS | Coding | TRUE |
| nibrin | NM_002485, ENS | Coding | TRUE |
| nibrin | NM_002485, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_005502, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| phosphoglycerate kinase 1, uncharacterized LOC1006 | NM_000291, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| zinc finger protein 185 (LIM domain) | NM_001178106, ENS | Coding | TRUE |
| acyl-CoA dehydrogenase, short/branched chain | NM_001609, ENS | Coding | TRUE |
| acyl-CoA dehydrogenase, short/branched chain | NM_001609, ENS | Coding | TRUE |
| acyl-CoA dehydrogenase, short/branched chain | NM_001609, ENS | Coding | TRUE |
| acyl-CoA dehydrogenase, short/branched chain | NM_001609, ENS | Coding | TRUE |
| acyl-CoA dehydrogenase, short/branched chain | NM_001609, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 2 | NM_001248002, ENS | Coding | TRUE |
| histone cluster 4, H4, histone cluster 2, H4b, histone c | NM_175054, ENS | Coding | TRUE |
| histone cluster 4, H4, histone cluster 2, H4b, histone c | NM_175054, ENS | Coding | TRUE |
| histone cluster 4, H4, histone cluster 2, H4b, histone c | NM_175054, ENS | Coding | TRUE |
| histone cluster 4, H4, histone cluster 2, H4b, histone c | NM_175054, ENS | Coding | TRUE |
| decorin | NM_001920, NM | Coding | TRUE |
| decorin | NM_001920, NM | Coding | TRUE |
| decorin | NM_001920, NM | Coding | TRUE |
| decorin | NM_001920, NM | Coding | TRUE |
| decorin | NM_001920, NM | Coding | TRUE |
| mixed lineage kinase domain-like | NM_001142497, ENS | Coding | TRUE |
| mixed lineage kinase domain-like | NM_001142497, ENS | Coding | TRUE |
| mixed lineage kinase domain-like | NM_001142497, ENS | Coding | TRUE |
| DPH5 homolog (S. cerevisiae) | NM_001077394, ENS | Coding | TRUE |
| DPH5 homolog (S. cerevisiae) | NM_001077394, ENS | Coding | TRUE |
| DPH5 homolog (S. cerevisiae) | NM_001077394, ENS | Coding | TRUE |
| DPH5 homolog (S. cerevisiae) | NM_001077394, ENS | Coding | TRUE |
| zinc finger protein 354C | NM_014594, ENS | Coding | TRUE |
| zinc finger protein 354C | NM_014594, ENS | Coding | TRUE |
| zinc finger protein 354C | NM_014594, ENS | Coding | TRUE |
| zinc finger protein 354C | NM_014594, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| sprouty homolog 4 (Drosophila) | NM_001127496, | Coding | TRUE |
| oral cancer overexpressed 1 | NM_153451, ENS | Coding | TRUE |
| oral cancer overexpressed 1 | NM_153451, ENS | Coding | TRUE |
| oral cancer overexpressed 1 | NM_153451, ENS | Coding | TRUE |
| paraspeckle component 1, PSPC1 overlapping transcr | NM_001042414, | Coding | TRUE |
| paraspeckle component 1, PSPC1 overlapping transcr | NM_001042414, | Coding | TRUE |
| paraspeckle component 1, PSPC1 overlapping transcr | NM_001042414, | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_001168368, | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_001168368, | Coding | TRUE |
| acyl-CoA synthetase medium-chain family member 5 | NM_017888, ENS | Coding | TRUE |
| acyl-CoA synthetase medium-chain family member 5 | NM_017888, ENS | Coding | TRUE |
| acyl-CoA synthetase medium-chain family member 5 | NM_017888, ENS | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| HCLS1 binding protein 3 | NM_022460, ENS | Coding | TRUE |
| HCLS1 binding protein 3 | NM_022460, ENS | Coding | TRUE |
| HCLS1 binding protein 3 | NM_022460, ENS | Coding | TRUE |
| BRCA1 associated RING domain 1 | NM_000465, ENS | Coding | TRUE |
| BRCA1 associated RING domain 1 | NM_000465, ENS | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| leucine-rich repeats and immunoglobulin-like domains | NM_015541, BCC | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| serum/glucocorticoid regulated kinase 1 | NM_001143676, | Coding | TRUE |
| keratin 18 | NM_000224, NM | Coding | TRUE |
| keratin 18 | NM_000224, NM | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| receptor accessory protein 2 | NM_016606, BCC | Coding | TRUE |
| cortactin binding protein 2 | NM_033427, ENS | Coding | TRUE |
| cortactin binding protein 2 | NM_033427, ENS | Coding | TRUE |
| cortactin binding protein 2 | NM_033427, ENS | Coding | TRUE |
| cortactin binding protein 2 | NM_033427, ENS | Coding | TRUE |
| glutamine and serine rich 1 | NM_001076786, | Coding | TRUE |
| glutamine and serine rich 1 | NM_001076786, | Coding | TRUE |
| glutamine and serine rich 1 | NM_001076786, | Coding | TRUE |
| hypothetical LOC643365, long intergenic non-protein c | NR_024609, ENS | Coding | TRUE |
| hypothetical LOC643365, long intergenic non-protein c | NR_024609, ENS | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 6 (pu | NM_001114089, I | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 6 (pu | NM_001114089, I | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 6 (pu | NM_001114089, I | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 6 (pu | NM_001114089, I | Coding | TRUE |
| NSL1, MIND kinetochore complex component, homolo | NM_001042549, | Coding | TRUE |
| NSL1, MIND kinetochore complex component, homolo | NM_001042549, | Coding | TRUE |
| myosin VI | NM_004999, ENS | Coding | TRUE |
| myosin VI | NM_004999, ENS | Coding | TRUE |
| myosin VI | NM_004999, ENS | Coding | TRUE |
| myosin VI | NM_004999, ENS | Coding | TRUE |
| myosin VI | NM_004999, ENS | Coding | TRUE |
| matrix metalloproteinase 16 (membrane-inserted) | NM_005941, ENS | Coding | TRUE |
| matrix metalloproteinase 16 (membrane-inserted) | NM_005941, ENS | Coding | TRUE |
| matrix metalloproteinase 16 (membrane-inserted) | NM_005941, ENS | Coding | TRUE |
| matrix metalloproteinase 16 (membrane-inserted) | NM_005941, ENS | Coding | TRUE |
| matrix metalloproteinase 16 (membrane-inserted) | NM_005941, ENS | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| calpain 3, (p94) | NM_024344, NM | Coding | TRUE |
| zinc finger protein 568 | NM_001204835, | Coding | TRUE |
| zinc finger protein 568 | NM_001204835, | Coding | TRUE |
| zinc finger protein 568 | NM_001204835, | Coding | TRUE |
| zinc finger protein 568 | NM_001204835, | Coding | TRUE |
| zinc finger protein 568 | NM_001204835, | Coding | TRUE |
| zinc finger protein 568 | NM_001204835, | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| centromere protein E, 312kDa | NM_001813, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 37 | NM_014639, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 37 | NM_014639, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 37 | NM_014639, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 37 | NM_014639, ENS | Coding | TRUE |

| | | | |
|--|----------------------------|--------|------|
| small nucleolar RNA, C/D box 24, ribosomal protein L7 | NR_002447, NM_002447 | Coding | TRUE |
| small nucleolar RNA, C/D box 24, ribosomal protein L7 | NR_002447, NM_002447 | Coding | TRUE |
| small nucleolar RNA, C/D box 24, ribosomal protein L7 | NR_002447, NM_002447 | Coding | TRUE |
| small nucleolar RNA, C/D box 24, ribosomal protein L7 | NR_002447, NM_002447 | Coding | TRUE |
| small nucleolar RNA, C/D box 24, ribosomal protein L7 | NR_002447, NM_002447 | Coding | TRUE |
| heat shock transcription factor family, X linked 2, heat shock | NM_001164415, NM_001164415 | Coding | TRUE |
| heat shock transcription factor family, X linked 2, heat shock | NM_001164415, NM_001164415 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| early B-cell factor 3 | NM_001005463, NM_001005463 | Coding | TRUE |
| patatin-like phospholipase domain containing 2 | NM_020376, ENS0000020376 | Coding | TRUE |
| patatin-like phospholipase domain containing 2 | NM_020376, ENS0000020376 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| Dmx-like 2 | NM_001174116, NM_001174116 | Coding | TRUE |
| LSM14B, SCD6 homolog B (S. cerevisiae) | NM_144703, ENS00000144703 | Coding | TRUE |
| LSM14B, SCD6 homolog B (S. cerevisiae) | NM_144703, ENS00000144703 | Coding | TRUE |
| LSM14B, SCD6 homolog B (S. cerevisiae) | NM_144703, ENS00000144703 | Coding | TRUE |
| l(3)mbt-like 1 (Drosophila) | NM_015478, NM_015478 | Coding | TRUE |
| l(3)mbt-like 1 (Drosophila) | NM_015478, NM_015478 | Coding | TRUE |
| l(3)mbt-like 1 (Drosophila) | NM_015478, NM_015478 | Coding | TRUE |
| l(3)mbt-like 1 (Drosophila) | NM_015478, NM_015478 | Coding | TRUE |
| cornichon homolog 3 (Drosophila), uncharacterized LC | NM_152495, ENS00000152495 | Coding | TRUE |
| cornichon homolog 3 (Drosophila), uncharacterized LC | NM_152495, ENS00000152495 | Coding | TRUE |
| cornichon homolog 3 (Drosophila), uncharacterized LC | NM_152495, ENS00000152495 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ankyrin repeat domain 37 | NM_181726, ENS00000181726 | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_015230, ENS0000015230 | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_015230, ENS0000015230 | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_015230, ENS0000015230 | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_015230, ENS0000015230 | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_015230, ENS0000015230 | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_015230, ENS0000015230 | Coding | TRUE |
| family with sequence similarity 173, member B | NM_199133, ENS00000199133 | Coding | TRUE |
| family with sequence similarity 173, member B | NM_199133, ENS00000199133 | Coding | TRUE |
| ATPase, H+ transporting V0 subunit e2 | NM_001100592, NM_001100592 | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| engulfment and cell motility 2 | NM_133171, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| potassium voltage-gated channel, subfamily H (eag-re | NM_002238, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| zinc finger protein 273 | NM_021148, NR | Coding | TRUE |
| zinc finger protein 273 | NM_021148, NR | Coding | TRUE |
| zinc finger protein 273 | NM_021148, NR | Coding | TRUE |
| zinc finger protein 273 | NM_021148, NR | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| ral guanine nucleotide dissociation stimulator | NM_001042368, | Coding | TRUE |
| glyceraldehyde-3-phosphate dehydrogenase | NM_002046, ENS | Coding | TRUE |
| glyceraldehyde-3-phosphate dehydrogenase | NM_002046, ENS | Coding | TRUE |
| glyceraldehyde-3-phosphate dehydrogenase | NM_002046, ENS | Coding | TRUE |
| glyceraldehyde-3-phosphate dehydrogenase | NM_002046, ENS | Coding | TRUE |
| glyceraldehyde-3-phosphate dehydrogenase | NM_002046, ENS | Coding | TRUE |
| zinc and ring finger 1, E3 ubiquitin protein ligase | NM_032268, ENS | Coding | TRUE |
| zinc and ring finger 1, E3 ubiquitin protein ligase | NM_032268, ENS | Coding | TRUE |
| zinc and ring finger 1, E3 ubiquitin protein ligase | NM_032268, ENS | Coding | TRUE |
| zinc and ring finger 1, E3 ubiquitin protein ligase | NM_032268, ENS | Coding | TRUE |
| ATP synthase, H+ transporting, mitochondrial F1 comp | NM_001001937, | Coding | TRUE |
| ATP synthase, H+ transporting, mitochondrial F1 comp | NM_001001937, | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 15 | NM_001358, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 15 | NM_001358, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 15 | NM_001358, ENS | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 15 | NM_001358, ENS | Coding | TRUE |
| collagen, type XXV, alpha 1 | NM_001256074, | Coding | TRUE |
| collagen, type XXV, alpha 1 | NM_001256074, | Coding | TRUE |
| collagen, type XXV, alpha 1 | NM_001256074, | Coding | TRUE |
| collagen, type XXV, alpha 1 | NM_001256074, | Coding | TRUE |
| collagen, type XXV, alpha 1 | NM_001256074, | Coding | TRUE |
| met proto-oncogene (hepatocyte growth factor recepto | NM_000245, NM | Coding | TRUE |
| met proto-oncogene (hepatocyte growth factor recepto | NM_000245, NM | Coding | TRUE |
| met proto-oncogene (hepatocyte growth factor recepto | NM_000245, NM | Coding | TRUE |
| family with sequence similarity 69, member B | NM_152421, ENS | Coding | TRUE |
| family with sequence similarity 69, member B | NM_152421, ENS | Coding | TRUE |
| chromosome 14 open reading frame 93 | NM_021944, NM | Coding | TRUE |
| chromosome 14 open reading frame 93 | NM_021944, NM | Coding | TRUE |
| chromosome 14 open reading frame 93 | NM_021944, NM | Coding | TRUE |
| paternally expressed 3, zinc finger, imprinted 2 | NM_001146184, | Coding | TRUE |
| paternally expressed 3, zinc finger, imprinted 2 | NM_001146184, | Coding | TRUE |
| paternally expressed 3, zinc finger, imprinted 2 | NM_001146184, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| survival of motor neuron 1, telomeric, survival of motor | NM_000344, NM | Coding | TRUE |
| survival of motor neuron 1, telomeric, survival of motor | NM_000344, NM | Coding | TRUE |
| survival of motor neuron 1, telomeric, survival of motor | NM_000344, NM | Coding | TRUE |
| survival of motor neuron 1, telomeric, survival of motor | NM_000344, NM | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_006598, BCC | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| myosin X | NM_012334, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| RNA binding motif protein 33 | NM_053043, ENS | Coding | TRUE |
| staufen, RNA binding protein, homolog 2 (Drosophila) | NM_001164380, | Coding | TRUE |
| staufen, RNA binding protein, homolog 2 (Drosophila) | NM_001164380, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| COBW domain containing 6 | NM_001085457, | Coding | TRUE |
| isocitrate dehydrogenase 3 (NAD+) gamma | NM_174869, NM | Coding | TRUE |
| isocitrate dehydrogenase 3 (NAD+) gamma | NM_174869, NM | Coding | TRUE |
| exonuclease 3-5 domain containing 2 | NM_001193360, | Coding | TRUE |
| exonuclease 3-5 domain containing 2 | NM_001193360, | Coding | TRUE |
| ERO1-like (S. cerevisiae) | NM_014584, ENS | Coding | TRUE |
| ERO1-like (S. cerevisiae) | NM_014584, ENS | Coding | TRUE |
| ERO1-like (S. cerevisiae) | NM_014584, ENS | Coding | TRUE |
| ERO1-like (S. cerevisiae) | NM_014584, ENS | Coding | TRUE |
| secretogranin V (7B2 protein) | NM_001144757, | Coding | TRUE |
| secretogranin V (7B2 protein) | NM_001144757, | Coding | TRUE |
| secretogranin V (7B2 protein) | NM_001144757, | Coding | TRUE |
| secretogranin V (7B2 protein) | NM_001144757, | Coding | TRUE |
| fructosamine 3 kinase | NM_022158, ENS | Coding | TRUE |
| fructosamine 3 kinase | NM_022158, ENS | Coding | TRUE |
| fructosamine 3 kinase | NM_022158, ENS | Coding | TRUE |
| fructosamine 3 kinase | NM_022158, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| deoxyribonuclease I | NM_005223, ENS | Coding | TRUE |
| scaffold attachment factor B2 | NM_014649, ENS | Coding | TRUE |
| scaffold attachment factor B2 | NM_014649, ENS | Coding | TRUE |
| scaffold attachment factor B2 | NM_014649, ENS | Coding | TRUE |
| scaffold attachment factor B2 | NM_014649, ENS | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| major histocompatibility complex, class I, F | NM_001098478, | Coding | TRUE |
| loricrin | NM_000427, ENS | Coding | TRUE |
| loricrin | NM_000427, ENS | Coding | TRUE |
| loricrin | NM_000427, ENS | Coding | TRUE |
| Ral GEF with PH domain and SH3 binding motif 2 | NM_152663, ENS | Coding | TRUE |
| Ral GEF with PH domain and SH3 binding motif 2 | NM_152663, ENS | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| laminin, beta 3, microRNA 4260 | NM_000228, NM, | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| budding uninhibited by benzimidazoles 1 homolog (yea | NM_004336, ENS | Coding | TRUE |
| leucine rich repeat neuronal 1 | NM_020873, ENS | Coding | TRUE |
| leucine rich repeat neuronal 1 | NM_020873, ENS | Coding | TRUE |
| leucine rich repeat neuronal 1 | NM_020873, ENS | Coding | TRUE |
| glucuronidase, beta | NM_000181, ENS | Coding | TRUE |
| glucuronidase, beta | NM_000181, ENS | Coding | TRUE |
| glucuronidase, beta | NM_000181, ENS | Coding | TRUE |
| glucuronidase, beta | NM_000181, ENS | Coding | TRUE |
| glucuronidase, beta | NM_000181, ENS | Coding | TRUE |
| glucuronidase, beta | NM_000181, ENS | Coding | TRUE |
| bromodomain and WD repeat domain containing 3 | NM_153252, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| NLR family, CARD domain containing 5 | NM_032206, ENS | Coding | TRUE |
| matrix metallopeptidase 24 (membrane-inserted) | NM_006690, ENS | Coding | TRUE |
| matrix metallopeptidase 24 (membrane-inserted) | NM_006690, ENS | Coding | TRUE |
| matrix metallopeptidase 24 (membrane-inserted) | NM_006690, ENS | Coding | TRUE |
| matrix metallopeptidase 24 (membrane-inserted) | NM_006690, ENS | Coding | TRUE |
| matrix metallopeptidase 24 (membrane-inserted) | NM_006690, ENS | Coding | TRUE |
| matrix metallopeptidase 24 (membrane-inserted) | NM_006690, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| hydroxysteroid (11-beta) dehydrogenase 1 | NM_001206741, | Coding | TRUE |
| hydroxysteroid (11-beta) dehydrogenase 1 | NM_001206741, | Coding | TRUE |
| hydroxysteroid (11-beta) dehydrogenase 1 | NM_001206741, | Coding | TRUE |
| hydroxysteroid (11-beta) dehydrogenase 1 | NM_001206741, | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| fucosidase, alpha-L- 1, tissue | NM_000147, ENS | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| collagen, type XI, alpha 1 | NM_001190709, | Coding | TRUE |
| ADAM metallopeptidase domain 23 | NM_003812, ENS | Coding | TRUE |
| ADAM metallopeptidase domain 23 | NM_003812, ENS | Coding | TRUE |
| ADAM metallopeptidase domain 23 | NM_003812, ENS | Coding | TRUE |
| ADAM metallopeptidase domain 23 | NM_003812, ENS | Coding | TRUE |
| ADAM metallopeptidase domain 23 | NM_003812, ENS | Coding | TRUE |
| inhibitor of Bruton agammaglobulinemia tyrosine kinas | NM_015525, BC1 | Coding | TRUE |
| inhibitor of Bruton agammaglobulinemia tyrosine kinas | NM_015525, BC1 | Coding | TRUE |
| inhibitor of Bruton agammaglobulinemia tyrosine kinas | NM_015525, BC1 | Coding | TRUE |
| inhibitor of Bruton agammaglobulinemia tyrosine kinas | NM_015525, BC1 | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| family with sequence similarity 115, member C | NM_001130026, | Coding | TRUE |
| limb region 1 homolog (mouse) | NM_022458, ENS | Coding | TRUE |
| limb region 1 homolog (mouse) | NM_022458, ENS | Coding | TRUE |
| limb region 1 homolog (mouse) | NM_022458, ENS | Coding | TRUE |
| limb region 1 homolog (mouse) | NM_022458, ENS | Coding | TRUE |
| limb region 1 homolog (mouse) | NM_022458, ENS | Coding | TRUE |
| cytochrome P450, family 51, subfamily A, polypeptide | NM_000786, NM | Coding | TRUE |
| cytochrome P450, family 51, subfamily A, polypeptide | NM_000786, NM | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| mitogen-activated protein kinase associated protein 1 | NM_001006617, | Coding | TRUE |
| chromosome X open reading frame 38 | NM_144970, ENS | Coding | TRUE |
| chromosome X open reading frame 38 | NM_144970, ENS | Coding | TRUE |
| chromosome X open reading frame 38 | NM_144970, ENS | Coding | TRUE |
| chromosome X open reading frame 38 | NM_144970, ENS | Coding | TRUE |
| chromosome X open reading frame 38 | NM_144970, ENS | Coding | TRUE |
| chromosome X open reading frame 38 | NM_144970, ENS | Coding | TRUE |
| protein phosphatase 6, regulatory subunit 3 | NM_001164160, | Coding | TRUE |
| protein phosphatase 6, regulatory subunit 3 | NM_001164160, | Coding | TRUE |
| protein phosphatase 6, regulatory subunit 3 | NM_001164160, | Coding | TRUE |
| protein phosphatase 6, regulatory subunit 3 | NM_001164160, | Coding | TRUE |
| protein phosphatase 6, regulatory subunit 3 | NM_001164160, | Coding | TRUE |
| tripartite motif containing 34, tripartite motif-containing | NM_001003827, | Coding | TRUE |
| tripartite motif containing 34, tripartite motif-containing | NM_001003827, | Coding | TRUE |
| cell death-inducing DFFA-like effector b | NM_014430, ENS | Coding | TRUE |
| cell death-inducing DFFA-like effector b | NM_014430, ENS | Coding | TRUE |
| cell death-inducing DFFA-like effector b | NM_014430, ENS | Coding | TRUE |
| cell death-inducing DFFA-like effector b | NM_014430, ENS | Coding | TRUE |
| cell death-inducing DFFA-like effector b | NM_014430, ENS | Coding | TRUE |
| chromosome 15 open reading frame 41 | NM_001130010, | Coding | TRUE |
| chromosome 15 open reading frame 41 | NM_001130010, | Coding | TRUE |
| chromosome 15 open reading frame 41 | NM_001130010, | Coding | TRUE |
| chromosome 15 open reading frame 41 | NM_001130010, | Coding | TRUE |
| gem (nuclear organelle) associated protein 7 | NM_024707, NM | Coding | TRUE |
| gem (nuclear organelle) associated protein 7 | NM_024707, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| cadherin, EGF LAG seven-pass G-type receptor 2 (fla | NM_001408, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 2 (fla | NM_001408, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 2 (fla | NM_001408, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 2 (fla | NM_001408, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 2 (fla | NM_001408, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 2 (fla | NM_001408, ENS | Coding | TRUE |
| regulatory factor X, 5 (influences HLA class II expressi | NM_000449, NM | Coding | TRUE |
| regulatory factor X, 5 (influences HLA class II expressi | NM_000449, NM | Coding | TRUE |
| transmembrane and coiled-coil domains 1 | NM_001256164, | Coding | TRUE |
| transmembrane and coiled-coil domains 1 | NM_001256164, | Coding | TRUE |
| transmembrane and coiled-coil domains 1 | NM_001256164, | Coding | TRUE |
| transmembrane and coiled-coil domains 1 | NM_001256164, | Coding | TRUE |
| transmembrane and coiled-coil domains 1 | NM_001256164, | Coding | TRUE |
| Rho family GTPase 3 | NM_001254738, | Coding | TRUE |
| Rho family GTPase 3 | NM_001254738, | Coding | TRUE |
| Rho family GTPase 3 | NM_001254738, | Coding | TRUE |
| Rho family GTPase 3 | NM_001254738, | Coding | TRUE |
| Rho family GTPase 3 | NM_001254738, | Coding | TRUE |
| Rho family GTPase 3 | NM_001254738, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| CD200 molecule | NM_001004196, | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| sarcoglycan, beta (43kDa dystrophin-associated glyco | NM_000232, ENS | Coding | TRUE |
| hexosaminidase B (beta polypeptide) | NM_000521, ENS | Coding | TRUE |
| hexosaminidase B (beta polypeptide) | NM_000521, ENS | Coding | TRUE |
| hexosaminidase B (beta polypeptide) | NM_000521, ENS | Coding | TRUE |
| hexosaminidase B (beta polypeptide) | NM_000521, ENS | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| high mobility group AT-hook 1, high mobility group AT-f | NM_145905, NM | Coding | TRUE |
| retinitis pigmentosa 9 (autosomal dominant) | NM_203288, ENS | Coding | TRUE |
| retinitis pigmentosa 9 (autosomal dominant) | NM_203288, ENS | Coding | TRUE |
| retinitis pigmentosa 9 (autosomal dominant) | NM_203288, ENS | Coding | TRUE |
| retinitis pigmentosa 9 (autosomal dominant) | NM_203288, ENS | Coding | TRUE |
| retinitis pigmentosa 9 (autosomal dominant) | NM_203288, ENS | Coding | TRUE |
| retinitis pigmentosa 9 (autosomal dominant) | NM_203288, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| lipocalin 6 | NM_198946, ENS | Coding | TRUE |
| lipocalin 6 | NM_198946, ENS | Coding | TRUE |
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |
| glutamate receptor, ionotropic, AMPA 3 | NM_000828, NM | Coding | TRUE |
| retinitis pigmentosa GTPase regulator | NM_000328, NM | Coding | TRUE |
| retinitis pigmentosa GTPase regulator | NM_000328, NM | Coding | TRUE |
| retinitis pigmentosa GTPase regulator | NM_000328, NM | Coding | TRUE |
| retinitis pigmentosa GTPase regulator | NM_000328, NM | Coding | TRUE |
| retinitis pigmentosa GTPase regulator | NM_000328, NM | Coding | TRUE |
| PRA1 domain family, member 2 | NM_007213, ENS | Coding | TRUE |
| PRA1 domain family, member 2 | NM_007213, ENS | Coding | TRUE |
| MAP-kinase activating death domain | NM_130470, NM | Coding | TRUE |
| MAP-kinase activating death domain | NM_130470, NM | Coding | TRUE |
| MAP-kinase activating death domain | NM_130470, NM | Coding | TRUE |
| neurexophilin 4 | NM_007224, ENS | Coding | TRUE |
| neurexophilin 4 | NM_007224, ENS | Coding | TRUE |
| neurexophilin 4 | NM_007224, ENS | Coding | TRUE |
| neurexophilin 4 | NM_007224, ENS | Coding | TRUE |
| B-cell translocation gene 1, anti-proliferative | NM_001731, ENS | Coding | TRUE |
| B-cell translocation gene 1, anti-proliferative | NM_001731, ENS | Coding | TRUE |
| B-cell translocation gene 1, anti-proliferative | NM_001731, ENS | Coding | TRUE |
| T cell receptor delta joining 1, T cell receptor delta join | ENST000003904 | Coding | TRUE |
| T cell receptor delta joining 1, T cell receptor delta join | ENST000003904 | Coding | TRUE |
| T cell receptor delta joining 1, T cell receptor delta join | ENST000003904 | Coding | TRUE |
| T cell receptor delta joining 1, T cell receptor delta join | ENST000003904 | Coding | TRUE |
| T cell receptor delta joining 1, T cell receptor delta join | ENST000003904 | Coding | TRUE |
| T cell receptor delta joining 1, T cell receptor delta join | ENST000003904 | Coding | TRUE |
| golgin subfamily A member 2-like, golgin A2 pseudoge | NR_026811, NR | Coding | TRUE |
| golgin subfamily A member 2-like, golgin A2 pseudoge | NR_026811, NR | Coding | TRUE |
| golgin subfamily A member 2-like, golgin A2 pseudoge | NR_026811, NR | Coding | TRUE |
| golgin subfamily A member 2-like, golgin A2 pseudoge | NR_026811, NR | Coding | TRUE |
| golgin subfamily A member 2-like, golgin A2 pseudoge | NR_026811, NR | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| arrestin, beta 2 | NM_004313, NM | Coding | TRUE |
| proline rich 12 | NM_020719, ENS | Coding | TRUE |
| proline rich 12 | NM_020719, ENS | Coding | TRUE |
| branched chain keto acid dehydrogenase E1, alpha pc | NM_000709, NM | Coding | TRUE |
| branched chain keto acid dehydrogenase E1, alpha pc | NM_000709, NM | Coding | TRUE |
| branched chain keto acid dehydrogenase E1, alpha pc | NM_000709, NM | Coding | TRUE |
| branched chain keto acid dehydrogenase E1, alpha pc | NM_000709, NM | Coding | TRUE |
| sperm associated antigen 4 | NM_003116, ENS | Coding | TRUE |
| sperm associated antigen 4 | NM_003116, ENS | Coding | TRUE |
| sperm associated antigen 4 | NM_003116, ENS | Coding | TRUE |
| sperm associated antigen 4 | NM_003116, ENS | Coding | TRUE |
| sperm associated antigen 4 | NM_003116, ENS | Coding | TRUE |
| glutathione S-transferase mu 3 (brain) | NM_000849, NR | Coding | TRUE |
| glutathione S-transferase mu 3 (brain) | NM_000849, NR | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| plakophilin 2 | NM_001005242, | Coding | TRUE |
| plakophilin 2 | NM_001005242, | Coding | TRUE |
| plakophilin 2 | NM_001005242, | Coding | TRUE |
| plakophilin 2 | NM_001005242, | Coding | TRUE |
| coiled-coil domain containing 144A | NM_014695, BC1 | Coding | TRUE |
| coiled-coil domain containing 144A | NM_014695, BC1 | Coding | TRUE |
| coiled-coil domain containing 144A | NM_014695, BC1 | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| adrenergic, beta, receptor kinase 2 | NM_005160, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, ATP6V | NM_004640, NR | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, ATP6V | NM_004640, NR | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, ATP6V | NM_004640, NR | Coding | TRUE |
| dihydropyrimidine dehydrogenase | NM_000110, NM | Coding | TRUE |
| dihydropyrimidine dehydrogenase | NM_000110, NM | Coding | TRUE |
| NOP14 antisense RNA 1 (non-protein coding) | NR_015453, ENS | Coding | TRUE |
| NOP14 antisense RNA 1 (non-protein coding) | NR_015453, ENS | Coding | TRUE |
| IK cytokine, down-regulator of HLA II, microRNA 3655 | NM_006083, NR | Coding | TRUE |
| IK cytokine, down-regulator of HLA II, microRNA 3655 | NM_006083, NR | Coding | TRUE |
| IK cytokine, down-regulator of HLA II, microRNA 3655 | NM_006083, NR | Coding | TRUE |
| PDZ and LIM domain 7 (enigma) | NM_005451, NM | Coding | TRUE |
| PDZ and LIM domain 7 (enigma) | NM_005451, NM | Coding | TRUE |
| PDZ and LIM domain 7 (enigma) | NM_005451, NM | Coding | TRUE |
| PDZ and LIM domain 7 (enigma) | NM_005451, NM | Coding | TRUE |
| PDZ and LIM domain 7 (enigma) | NM_005451, NM | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| islet cell autoantigen 1, 69kDa | NM_001136020, | Coding | TRUE |
| zinc finger, AN1-type domain 1 | NM_001170796, | Coding | TRUE |
| zinc finger, AN1-type domain 1 | NM_001170796, | Coding | TRUE |
| zinc finger, AN1-type domain 1 | NM_001170796, | Coding | TRUE |
| zinc finger, AN1-type domain 1 | NM_001170796, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |

| | | | |
|---|-----------------------|--------|------|
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| four and a half LIM domains 1 | NM_001167819, | Coding | TRUE |
| enolase family member 4 | NM_001242699, | Coding | TRUE |
| enolase family member 4 | NM_001242699, | Coding | TRUE |
| enolase family member 4 | NM_001242699, | Coding | TRUE |
| enolase family member 4 | NM_001242699, | Coding | TRUE |
| enolase family member 4 | NM_001242699, | Coding | TRUE |
| enolase family member 4 | NM_001242699, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| spindle and kinetochore associated complex subunit 3 | NM_145061, NM_145061, | Coding | TRUE |
| cyclin B2 | NM_004701, ENS | Coding | TRUE |
| cyclin B2 | NM_004701, ENS | Coding | TRUE |
| cyclin B2 | NM_004701, ENS | Coding | TRUE |
| cyclin B2 | NM_004701, ENS | Coding | TRUE |
| cyclin B2 | NM_004701, ENS | Coding | TRUE |
| cyclin B2 | NM_004701, ENS | Coding | TRUE |
| homeobox B5 | NM_002147, ENS | Coding | TRUE |
| homeobox B5 | NM_002147, ENS | Coding | TRUE |
| parvin, beta | NM_001003828, | Coding | TRUE |
| parvin, beta | NM_001003828, | Coding | TRUE |
| parvin, beta | NM_001003828, | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| ER membrane protein complex subunit 1 | NM_015047, ENS | Coding | TRUE |
| HEAT repeat containing 1 | NM_018072, ENS | Coding | TRUE |
| HEAT repeat containing 1 | NM_018072, ENS | Coding | TRUE |
| HEAT repeat containing 1 | NM_018072, ENS | Coding | TRUE |
| HEAT repeat containing 1 | NM_018072, ENS | Coding | TRUE |
| HEAT repeat containing 1 | NM_018072, ENS | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| docking protein 1, 62kDa (downstream of tyrosine kina | NM_001197260, | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 2 | NM_006186, ENS | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| transmembrane protein 150C | NM_001080506, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| sequestosome 1 | NM_001142298, | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, ENS | Coding | TRUE |
| fibronectin type III and SPRY domain containing 1-like | NM_001145313, | Coding | TRUE |
| fibronectin type III and SPRY domain containing 1-like | NM_001145313, | Coding | TRUE |
| fibronectin type III and SPRY domain containing 1-like | NM_001145313, | Coding | TRUE |
| fibronectin type III and SPRY domain containing 1-like | NM_001145313, | Coding | TRUE |
| fibronectin type III and SPRY domain containing 1-like | NM_001145313, | Coding | TRUE |
| fibronectin type III and SPRY domain containing 1-like | NM_001145313, | Coding | TRUE |
| ubiquitin associated protein 2, small nucleolar RNA, C | NM_018449, ENS | Coding | TRUE |
| ubiquitin associated protein 2, small nucleolar RNA, C | NM_018449, ENS | Coding | TRUE |
| ubiquitin associated protein 2, small nucleolar RNA, C | NM_018449, ENS | Coding | TRUE |
| ubiquitin associated protein 2, small nucleolar RNA, C | NM_018449, ENS | Coding | TRUE |
| golgi brefeldin A resistant guanine nucleotide exchange | NM_001199378, | Coding | TRUE |
| golgi brefeldin A resistant guanine nucleotide exchange | NM_001199378, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| WW domain binding protein 1-like | NM_001083913, | Coding | TRUE |
| KIN, antigenic determinant of recA protein homolog (m | NM_012311, NR_ | Coding | TRUE |
| KIN, antigenic determinant of recA protein homolog (m | NM_012311, NR_ | Coding | TRUE |
| KIN, antigenic determinant of recA protein homolog (m | NM_012311, NR_ | Coding | TRUE |
| KIN, antigenic determinant of recA protein homolog (m | NM_012311, NR_ | Coding | TRUE |
| nucleoporin 160kDa | NM_015231, ENS | Coding | TRUE |
| nucleoporin 160kDa | NM_015231, ENS | Coding | TRUE |

| | | | |
|---|----------------------------|--------|------|
| nucleoporin 160kDa | NM_015231, ENS | Coding | TRUE |
| nucleoporin 160kDa | NM_015231, ENS | Coding | TRUE |
| nucleoporin 160kDa | NM_015231, ENS | Coding | TRUE |
| nucleoporin 160kDa | NM_015231, ENS | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| serum amyloid A2, RNA, 5S ribosomal 333 | NM_001127380, NM_001127380 | Coding | TRUE |
| MACRO domain containing 2 | NM_001033087, NM_001033087 | Coding | TRUE |
| MACRO domain containing 2 | NM_001033087, NM_001033087 | Coding | TRUE |
| MACRO domain containing 2 | NM_001033087, NM_001033087 | Coding | TRUE |
| MACRO domain containing 2 | NM_001033087, NM_001033087 | Coding | TRUE |
| vestigial like 4 (Drosophila) | NM_014667, NM_014667 | Coding | TRUE |
| vestigial like 4 (Drosophila) | NM_014667, NM_014667 | Coding | TRUE |
| vestigial like 4 (Drosophila) | NM_014667, NM_014667 | Coding | TRUE |
| vestigial like 4 (Drosophila) | NM_014667, NM_014667 | Coding | TRUE |
| vestigial like 4 (Drosophila) | NM_014667, NM_014667 | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| interleukin 17 receptor D | NM_017563, ENS | Coding | TRUE |
| programmed cell death 10 | NM_007217, NM_007217 | Coding | TRUE |
| programmed cell death 10 | NM_007217, NM_007217 | Coding | TRUE |
| programmed cell death 10 | NM_007217, NM_007217 | Coding | TRUE |
| programmed cell death 10 | NM_007217, NM_007217 | Coding | TRUE |
| FAT tumor suppressor homolog 1 (Drosophila) | NM_005245, ENS | Coding | TRUE |
| FAT tumor suppressor homolog 1 (Drosophila) | NM_005245, ENS | Coding | TRUE |
| FAT tumor suppressor homolog 1 (Drosophila) | NM_005245, ENS | Coding | TRUE |
| FAT tumor suppressor homolog 1 (Drosophila) | NM_005245, ENS | Coding | TRUE |
| PHD finger protein 3 | NM_015153, ENS | Coding | TRUE |
| PHD finger protein 3 | NM_015153, ENS | Coding | TRUE |
| PHD finger protein 3 | NM_015153, ENS | Coding | TRUE |
| ring finger protein (C3H2C3 type) 6 | NM_005977, NM_005977 | Coding | TRUE |
| ring finger protein (C3H2C3 type) 6 | NM_005977, NM_005977 | Coding | TRUE |
| glycogen synthase 1 (muscle) | NM_001161587, NM_001161587 | Coding | TRUE |
| glycogen synthase 1 (muscle) | NM_001161587, NM_001161587 | Coding | TRUE |
| glycogen synthase 1 (muscle) | NM_001161587, NM_001161587 | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| dihydropyrimidinase-like 2 | NM_001197293, | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| Ly6/neurotoxin 1 | NM_177477, NM | Coding | TRUE |
| protein kinase, X-linked | NM_005044, ENS | Coding | TRUE |
| protein kinase, X-linked | NM_005044, ENS | Coding | TRUE |
| protein kinase, X-linked | NM_005044, ENS | Coding | TRUE |
| protein kinase, X-linked | NM_005044, ENS | Coding | TRUE |
| protein kinase, X-linked | NM_005044, ENS | Coding | TRUE |
| protein kinase, X-linked | NM_005044, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| centrosomal protein 290kDa | NM_025114, ENS | Coding | TRUE |
| protogenin | NM_173814, ENS | Coding | TRUE |
| protogenin | NM_173814, ENS | Coding | TRUE |
| protogenin | NM_173814, ENS | Coding | TRUE |
| tektin 4 pseudogene 2, tektin 4 pseudogene, MAFF int | NR_038327, NR | Coding | TRUE |
| tektin 4 pseudogene 2, tektin 4 pseudogene, MAFF int | NR_038327, NR | Coding | TRUE |
| tektin 4 pseudogene 2, tektin 4 pseudogene, MAFF int | NR_038327, NR | Coding | TRUE |
| tektin 4 pseudogene 2, tektin 4 pseudogene, MAFF int | NR_038327, NR | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| proteasome (prosome, macropain) subunit, beta type, | NM_004159, NM | Coding | TRUE |
| proteasome (prosome, macropain) subunit, beta type, | NM_004159, NM | Coding | TRUE |
| proteasome (prosome, macropain) subunit, beta type, | NM_004159, NM | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR | Coding | TRUE |
| WD repeat domain 26 | NM_025160, NM | Coding | TRUE |
| WD repeat domain 26 | NM_025160, NM | Coding | TRUE |
| HEAT repeat containing 8 | NM_001039464, | Coding | TRUE |
| HEAT repeat containing 8 | NM_001039464, | Coding | TRUE |
| HEAT repeat containing 8 | NM_001039464, | Coding | TRUE |
| exportin 1 (CRM1 homolog, yeast) | NM_003400, ENS | Coding | TRUE |
| exportin 1 (CRM1 homolog, yeast) | NM_003400, ENS | Coding | TRUE |
| exportin 1 (CRM1 homolog, yeast) | NM_003400, ENS | Coding | TRUE |
| exportin 1 (CRM1 homolog, yeast) | NM_003400, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| RAB GTPase activating protein 1-like | NM_001035230, | Coding | TRUE |
| RAB GTPase activating protein 1-like | NM_001035230, | Coding | TRUE |
| KIAA0494 | NM_014774, ENS | Coding | TRUE |
| KIAA0494 | NM_014774, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| PCBP1 antisense RNA 1 (non-protein coding) | NR_033872, ENS | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 10 | NM_015442, ENS | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 10 | NM_015442, ENS | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 10 | NM_015442, ENS | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 10 | NM_015442, ENS | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| matrin 3, small nucleolar RNA host gene 4 (non-protein | NM_001194954, | Coding | TRUE |
| serpin peptidase inhibitor, clade B (ovalbumin), membe | NM_030666, ENS | Coding | TRUE |
| serpin peptidase inhibitor, clade B (ovalbumin), membe | NM_030666, ENS | Coding | TRUE |
| serpin peptidase inhibitor, clade B (ovalbumin), membe | NM_030666, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B, small r | NM_004640, NR_ | Coding | TRUE |
| plexin A4 | NM_020911, NM_ | Coding | TRUE |
| plexin A4 | NM_020911, NM_ | Coding | TRUE |
| plexin A4 | NM_020911, NM_ | Coding | TRUE |
| plexin A4 | NM_020911, NM_ | Coding | TRUE |
| transducin-like enhancer of split 1 (E(sp1) homolog, D | NM_005077, ENS | Coding | TRUE |
| transducin-like enhancer of split 1 (E(sp1) homolog, D | NM_005077, ENS | Coding | TRUE |
| transducin-like enhancer of split 1 (E(sp1) homolog, D | NM_005077, ENS | Coding | TRUE |
| transducin-like enhancer of split 1 (E(sp1) homolog, D | NM_005077, ENS | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_012080, NM_ | Coding | TRUE |
| HECT, UBA and WWE domain containing 1, E3 ubiquiti | NM_031407, ENS | Coding | TRUE |
| HECT, UBA and WWE domain containing 1, E3 ubiquiti | NM_031407, ENS | Coding | TRUE |
| HECT, UBA and WWE domain containing 1, E3 ubiquiti | NM_031407, ENS | Coding | TRUE |
| HECT, UBA and WWE domain containing 1, E3 ubiquiti | NM_031407, ENS | Coding | TRUE |
| HECT, UBA and WWE domain containing 1, E3 ubiquiti | NM_031407, ENS | Coding | TRUE |
| HECT, UBA and WWE domain containing 1, E3 ubiquiti | NM_031407, ENS | Coding | TRUE |
| FYVE, RhoGEF and PH domain containing 6 | NM_018351, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| ADAM metallopeptidase with thrombospondin type 1 n | NM_182920, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_182920, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_182920, ENS | Coding | TRUE |
| nephronectin | NM_001033047, | Coding | TRUE |
| nephronectin | NM_001033047, | Coding | TRUE |
| nephronectin | NM_001033047, | Coding | TRUE |
| nephronectin | NM_001033047, | Coding | TRUE |
| nephronectin | NM_001033047, | Coding | TRUE |
| nephronectin | NM_001033047, | Coding | TRUE |
| transmembrane protein 161B | NM_153354, ENS | Coding | TRUE |
| transmembrane protein 161B | NM_153354, ENS | Coding | TRUE |
| transmembrane protein 161B | NM_153354, ENS | Coding | TRUE |
| transmembrane protein 161B | NM_153354, ENS | Coding | TRUE |
| transmembrane protein 161B | NM_153354, ENS | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| CD74 molecule, major histocompatibility complex, clas | NM_001025158, | Coding | TRUE |
| Ras-related GTP binding D | NM_021244, ENS | Coding | TRUE |
| Ras-related GTP binding D | NM_021244, ENS | Coding | TRUE |
| Ras-related GTP binding D | NM_021244, ENS | Coding | TRUE |
| Ras-related GTP binding D | NM_021244, ENS | Coding | TRUE |
| cAMP responsive element binding protein 3-like 2 | NM_001253775, | Coding | TRUE |
| cAMP responsive element binding protein 3-like 2 | NM_001253775, | Coding | TRUE |
| cAMP responsive element binding protein 3-like 2 | NM_001253775, | Coding | TRUE |
| cAMP responsive element binding protein 3-like 2 | NM_001253775, | Coding | TRUE |
| cAMP responsive element binding protein 3-like 2 | NM_001253775, | Coding | TRUE |
| cAMP responsive element binding protein 3-like 2 | NM_001253775, | Coding | TRUE |
| transmembrane protein 68 | NM_152417, BCC | Coding | TRUE |
| transmembrane protein 68 | NM_152417, BCC | Coding | TRUE |
| transmembrane protein 68 | NM_152417, BCC | Coding | TRUE |
| transmembrane protein 68 | NM_152417, BCC | Coding | TRUE |
| transmembrane protein 68 | NM_152417, BCC | Coding | TRUE |
| transmembrane protein 68 | NM_152417, BCC | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| nucleoporin 214kDa | NM_005085, BC1 | Coding | TRUE |
| heat shock protein 90kDa beta (Grp94), member 1, mi | NM_003299, NR_ | Coding | TRUE |
| heat shock protein 90kDa beta (Grp94), member 1, mi | NM_003299, NR_ | Coding | TRUE |
| heat shock protein 90kDa beta (Grp94), member 1, mi | NM_003299, NR_ | Coding | TRUE |
| heat shock protein 90kDa beta (Grp94), member 1, mi | NM_003299, NR_ | Coding | TRUE |
| cyclin-dependent kinase inhibitor 3 | NM_001130851, | Coding | TRUE |
| cyclin-dependent kinase inhibitor 3 | NM_001130851, | Coding | TRUE |
| cyclin-dependent kinase inhibitor 3 | NM_001130851, | Coding | TRUE |
| cyclin-dependent kinase inhibitor 3 | NM_001130851, | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 1 | NM_001193465, | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 1 | NM_001193465, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| LYR motif containing 1 | NM_001128301, | Coding | TRUE |
| LYR motif containing 1 | NM_001128301, | Coding | TRUE |
| LYR motif containing 1 | NM_001128301, | Coding | TRUE |
| LYR motif containing 1 | NM_001128301, | Coding | TRUE |
| LYR motif containing 1 | NM_001128301, | Coding | TRUE |
| LYR motif containing 1 | NM_001128301, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| basal cell adhesion molecule (Lutheran blood group) | NM_001013257, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_001136021, | Coding | TRUE |
| TAF15 RNA polymerase II, TATA box binding protein (1 | NM_139215, NM | Coding | TRUE |
| TAF15 RNA polymerase II, TATA box binding protein (1 | NM_139215, NM | Coding | TRUE |
| TAF15 RNA polymerase II, TATA box binding protein (1 | NM_139215, NM | Coding | TRUE |
| Ras association (RalGDS/AF-6) domain family membe | NM_182663, NM | Coding | TRUE |
| Ras association (RalGDS/AF-6) domain family membe | NM_182663, NM | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| chromosome 1 open reading frame 186, uncharacteriz | NM_001007544, | Coding | TRUE |
| protein phosphatase 1, regulatory subunit 7 | NM_002712, BCC | Coding | TRUE |
| protein phosphatase 1, regulatory subunit 7 | NM_002712, BCC | Coding | TRUE |
| protein phosphatase 1, regulatory subunit 7 | NM_002712, BCC | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| origin recognition complex, subunit 2 | NM_006190, NR | Coding | TRUE |
| centromere protein A | NM_001042426, | Coding | TRUE |
| centromere protein A | NM_001042426, | Coding | TRUE |
| centromere protein A | NM_001042426, | Coding | TRUE |
| family with sequence similarity 116, member A | NM_152678, ENS | Coding | TRUE |
| family with sequence similarity 116, member A | NM_152678, ENS | Coding | TRUE |
| glucan (1,4-alpha-), branching enzyme 1 | NM_000158, ENS | Coding | TRUE |
| glucan (1,4-alpha-), branching enzyme 1 | NM_000158, ENS | Coding | TRUE |
| glucan (1,4-alpha-), branching enzyme 1 | NM_000158, ENS | Coding | TRUE |
| glucan (1,4-alpha-), branching enzyme 1 | NM_000158, ENS | Coding | TRUE |
| glucan (1,4-alpha-), branching enzyme 1 | NM_000158, ENS | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| RAN binding protein 3-like | NM_001161429, | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| family with sequence similarity 115, member C pseudo | NR_015421, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| CD72 molecule | NM_001782, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| sushi domain containing 1 | NM_022486, ENS | Coding | TRUE |
| zinc finger E-box binding homeobox 1 | NM_001128128, | Coding | TRUE |
| zinc finger E-box binding homeobox 1 | NM_001128128, | Coding | TRUE |
| zinc finger E-box binding homeobox 1 | NM_001128128, | Coding | TRUE |
| zinc finger E-box binding homeobox 1 | NM_001128128, | Coding | TRUE |
| T-cell leukemia homeobox 1 | NM_001195517, | Coding | TRUE |
| T-cell leukemia homeobox 1 | NM_001195517, | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| polymerase (RNA) III (DNA directed) polypeptide A, 15 | NM_007055, ENS | Coding | TRUE |
| family with sequence similarity 53, member B | NM_014661, BCC | Coding | TRUE |
| family with sequence similarity 53, member B | NM_014661, BCC | Coding | TRUE |
| family with sequence similarity 53, member B | NM_014661, BCC | Coding | TRUE |
| multiple EGF-like-domains 11 | NM_032445, ENS | Coding | TRUE |
| multiple EGF-like-domains 11 | NM_032445, ENS | Coding | TRUE |
| multiple EGF-like-domains 11 | NM_032445, ENS | Coding | TRUE |
| multiple EGF-like-domains 11 | NM_032445, ENS | Coding | TRUE |
| fatty acid amide hydrolase pseudogene | NR_045483, ENS | Coding | TRUE |
| fatty acid amide hydrolase pseudogene | NR_045483, ENS | Coding | TRUE |

| | | | |
|--|-----------------------|--------|------|
| fatty acid amide hydrolase pseudogene | NR_045483, ENS | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| zinc finger protein 638 | NM_001014972, | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl transferase 1 | NM_012214, NM_012214, | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl transferase 1 | NM_012214, NM_012214, | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl transferase 1 | NM_012214, NM_012214, | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl transferase 1 | NM_012214, NM_012214, | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl transferase 1 | NM_012214, NM_012214, | Coding | TRUE |
| mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyl transferase 1 | NM_012214, NM_012214, | Coding | TRUE |
| phosphodiesterase 6B, cGMP-specific, rod, beta | NM_000283, NM_000283, | Coding | TRUE |
| phosphodiesterase 6B, cGMP-specific, rod, beta | NM_000283, NM_000283, | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| RAN binding protein 17 | NM_022897, ENS | Coding | TRUE |
| coiled-coil domain containing 132 | NM_017667, NM_017667, | Coding | TRUE |
| coiled-coil domain containing 132 | NM_017667, NM_017667, | Coding | TRUE |
| coiled-coil domain containing 132 | NM_017667, NM_017667, | Coding | TRUE |
| coiled-coil domain containing 132 | NM_017667, NM_017667, | Coding | TRUE |
| coiled-coil domain containing 132 | NM_017667, NM_017667, | Coding | TRUE |
| Fas-activated serine/threonine kinase | NM_006712, NM_006712, | Coding | TRUE |
| Fas-activated serine/threonine kinase | NM_006712, NM_006712, | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier: glutamate) 1 | NM_001191060, | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier: glutamate) 1 | NM_001191060, | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier: glutamate) 1 | NM_001191060, | Coding | TRUE |
| ligase IV, DNA, ATP-dependent | NM_001098268, | Coding | TRUE |
| ligase IV, DNA, ATP-dependent | NM_001098268, | Coding | TRUE |
| ligase IV, DNA, ATP-dependent | NM_001098268, | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| major histocompatibility complex, class I, B | NM_005514, BCC | Coding | TRUE |
| v-rel reticuloendotheliosis viral oncogene homolog (avian) | NM_002908, BC1 | Coding | TRUE |
| v-rel reticuloendotheliosis viral oncogene homolog (avian) | NM_002908, BC1 | Coding | TRUE |
| v-rel reticuloendotheliosis viral oncogene homolog (avian) | NM_002908, BC1 | Coding | TRUE |
| SP100 nuclear antigen | NM_001080391, | Coding | TRUE |
| SP100 nuclear antigen | NM_001080391, | Coding | TRUE |
| SP100 nuclear antigen | NM_001080391, | Coding | TRUE |
| SP100 nuclear antigen | NM_001080391, | Coding | TRUE |
| SP100 nuclear antigen | NM_001080391, | Coding | TRUE |
| HEAT repeat containing 7B1 | ENST000003897 | Coding | TRUE |
| HEAT repeat containing 7B1 | ENST000003897 | Coding | TRUE |
| HEAT repeat containing 7B1 | ENST000003897 | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| zinc finger protein 621 | NM_001098414, | Coding | TRUE |
| zinc finger protein 621 | NM_001098414, | Coding | TRUE |
| zinc finger protein 621 | NM_001098414, | Coding | TRUE |
| neurobeachin-like 2 | NM_015175, ENS | Coding | TRUE |
| neurobeachin-like 2 | NM_015175, ENS | Coding | TRUE |
| neurobeachin-like 2 | NM_015175, ENS | Coding | TRUE |
| neurobeachin-like 2 | NM_015175, ENS | Coding | TRUE |
| neurobeachin-like 2 | NM_015175, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 | NM_017631, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| ADAM metalloproteinase with thrombospondin type 1 n | NM_139056, ENS | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| cytoplasmic FMR1 interacting protein 2 | NM_001037332, | Coding | TRUE |
| UFM1-specific ligase 1 | NM_015323, ENS | Coding | TRUE |
| UFM1-specific ligase 1 | NM_015323, ENS | Coding | TRUE |
| glutamyl-tRNA synthase (glutamine-hydrolyzing)-like | NM_018292, ENS | Coding | TRUE |
| glutamyl-tRNA synthase (glutamine-hydrolyzing)-like | NM_018292, ENS | Coding | TRUE |
| glutamyl-tRNA synthase (glutamine-hydrolyzing)-like | NM_018292, ENS | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein H3 (2H9) | NM_012207, NM | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein H3 (2H9) | NM_012207, NM | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein H3 (2H9) | NM_012207, NM | Coding | TRUE |
| nucleotide binding protein-like | NM_001201573, | Coding | TRUE |
| nucleotide binding protein-like | NM_001201573, | Coding | TRUE |
| nucleotide binding protein-like | NM_001201573, | Coding | TRUE |
| v-maf musculoaponeurotic fibrosarcoma oncogene hom | NM_001031804, | Coding | TRUE |
| v-maf musculoaponeurotic fibrosarcoma oncogene hom | NM_001031804, | Coding | TRUE |
| v-maf musculoaponeurotic fibrosarcoma oncogene hom | NM_001031804, | Coding | TRUE |
| HLA complex group 18 (non-protein coding) | NR_024052, NR | Coding | TRUE |
| HLA complex group 18 (non-protein coding) | NR_024052, NR | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 2 | NM_001039550, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| DnaJ (Hsp40) homolog, subfamily B, member 2 | NM_001039550, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 2 | NM_001039550, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 2 | NM_001039550, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 2 | NM_001039550, | Coding | TRUE |
| HemK methyltransferase family member 1 | NM_016173, ENS | Coding | TRUE |
| HemK methyltransferase family member 1 | NM_016173, ENS | Coding | TRUE |
| HemK methyltransferase family member 1 | NM_016173, ENS | Coding | TRUE |
| HemK methyltransferase family member 1 | NM_016173, ENS | Coding | TRUE |
| HemK methyltransferase family member 1 | NM_016173, ENS | Coding | TRUE |
| HemK methyltransferase family member 1 | NM_016173, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| calcium channel, voltage-dependent, alpha 2/delta subunit | NM_018398, ENS | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| thyroid hormone receptor, beta | NM_000461, NM | Coding | TRUE |
| Rieske (Fe-S) domain containing | NM_001131065, | Coding | TRUE |
| Rieske (Fe-S) domain containing | NM_001131065, | Coding | TRUE |
| .1 | | Coding | TRUE |
| .1 | | Coding | TRUE |
| .1 | | Coding | TRUE |
| .1 | | Coding | TRUE |
| .1 | | Coding | TRUE |
| SIX homeobox 4 | NM_017420, ENS | Coding | TRUE |
| SIX homeobox 4 | NM_017420, ENS | Coding | TRUE |
| SIX homeobox 4 | NM_017420, ENS | Coding | TRUE |
| SIX homeobox 4 | NM_017420, ENS | Coding | TRUE |
| MPV17 mitochondrial membrane protein-like | NM_001128423, | Coding | TRUE |
| MPV17 mitochondrial membrane protein-like | NM_001128423, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2 variant 1 | NM_001032288, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2 variant 1 | NM_001032288, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2 variant 1 | NM_001032288, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2 variant 1 | NM_001032288, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2 variant 1 | NM_001032288, | Coding | TRUE |
| protein phosphatase 1, regulatory (inhibitor) subunit 1C | NM_001080545, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| protein phosphatase 1, regulatory (inhibitor) subunit 1C | NM_001080545, | Coding | TRUE |
| arginine decarboxylase | NM_052998, BCC | Coding | TRUE |
| arginine decarboxylase | NM_052998, BCC | Coding | TRUE |
| arginine decarboxylase | NM_052998, BCC | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| galactosidase, beta 1-like | NM_024506, ENS | Coding | TRUE |
| nucleolin | NM_005381, ENS | Coding | TRUE |
| nucleolin | NM_005381, ENS | Coding | TRUE |
| nucleolin | NM_005381, ENS | Coding | TRUE |
| non-SMC condensin I complex, subunit G | NM_022346, ENS | Coding | TRUE |
| non-SMC condensin I complex, subunit G | NM_022346, ENS | Coding | TRUE |
| non-SMC condensin I complex, subunit G | NM_022346, ENS | Coding | TRUE |
| non-SMC condensin I complex, subunit G | NM_022346, ENS | Coding | TRUE |
| non-SMC condensin I complex, subunit G | NM_022346, ENS | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| FK506 binding protein 5 | NM_004117, NM | Coding | TRUE |
| glioblastoma amplified sequence | NM_001202469, | Coding | TRUE |
| glioblastoma amplified sequence | NM_001202469, | Coding | TRUE |
| BMP and activin membrane-bound inhibitor homolog (| NM_012342, ENS | Coding | TRUE |
| BMP and activin membrane-bound inhibitor homolog (| NM_012342, ENS | Coding | TRUE |
| collagen, type XIII, alpha 1 | NM_001130103, | Coding | TRUE |
| collagen, type XIII, alpha 1 | NM_001130103, | Coding | TRUE |
| collagen, type XIII, alpha 1 | NM_001130103, | Coding | TRUE |
| collagen, type XIII, alpha 1 | NM_001130103, | Coding | TRUE |
| collagen, type XIII, alpha 1 | NM_001130103, | Coding | TRUE |
| protein phosphatase 3, catalytic subunit, beta isozyme | NM_001142353, | Coding | TRUE |
| protein phosphatase 3, catalytic subunit, beta isozyme | NM_001142353, | Coding | TRUE |
| protein phosphatase 3, catalytic subunit, beta isozyme | NM_001142353, | Coding | TRUE |
| protein phosphatase 3, catalytic subunit, beta isozyme | NM_001142353, | Coding | TRUE |
| protein phosphatase 3, catalytic subunit, beta isozyme | NM_001142353, | Coding | TRUE |
| protein phosphatase 3, catalytic subunit, beta isozyme | NM_001142353, | Coding | TRUE |
| uncharacterized LOC100506314 | NR_038920, ENS | Coding | TRUE |
| uncharacterized LOC100506314 | NR_038920, ENS | Coding | TRUE |
| uncharacterized LOC100506314 | NR_038920, ENS | Coding | TRUE |

| | | | |
|---|-------------------|--------|------|
| uncharacterized LOC100506314 | NR_038920, ENS | Coding | TRUE |
| keratin 7 | NM_005556, ENS | Coding | TRUE |
| keratin 7 | NM_005556, ENS | Coding | TRUE |
| keratin 7 | NM_005556, ENS | Coding | TRUE |
| keratin 7 | NM_005556, ENS | Coding | TRUE |
| keratin 7 | NM_005556, ENS | Coding | TRUE |
| keratin 7 | NM_005556, ENS | Coding | TRUE |
| suppressor of cytokine signaling 7 | NM_014598, ENS | Coding | TRUE |
| suppressor of cytokine signaling 7 | NM_014598, ENS | Coding | TRUE |
| suppressor of cytokine signaling 7 | NM_014598, ENS | Coding | TRUE |
| suppressor of cytokine signaling 7 | NM_014598, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| zinc finger protein 776 | NM_173632, ENS | Coding | TRUE |
| chromosome 1 open reading frame 98 | NR_040064, ENS | Coding | TRUE |
| chromosome 1 open reading frame 98 | NR_040064, ENS | Coding | TRUE |
| chromosome 1 open reading frame 98 | NR_040064, ENS | Coding | TRUE |
| chromosome 1 open reading frame 98 | NR_040064, ENS | Coding | TRUE |
| zinc finger protein 692 | NM_001136036, ENS | Coding | TRUE |
| zinc finger protein 692 | NM_001136036, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| myotilin | NM_001135940, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| ArfGAP with RhoGAP domain, ankyrin repeat and PH domain | NM_022481, ENS | Coding | TRUE |
| RAB24, member RAS oncogene family | NM_001031677, ENS | Coding | TRUE |
| RAB24, member RAS oncogene family | NM_001031677, ENS | Coding | TRUE |
| fibronectin type III domain containing 1 | NM_032532, ENS | Coding | TRUE |
| fibronectin type III domain containing 1 | NM_032532, ENS | Coding | TRUE |
| fibronectin type III domain containing 1 | NM_032532, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| protein tyrosine phosphatase, non-receptor type 3 | NM_002829, NM | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 3 | NM_002829, NM | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 3 | NM_002829, NM | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 3 | NM_002829, NM | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| carnitine O-acetyltransferase | NM_000755, NR | Coding | TRUE |
| slingshot homolog 3 (Drosophila) | NM_017857, ENS | Coding | TRUE |
| slingshot homolog 3 (Drosophila) | NM_017857, ENS | Coding | TRUE |
| slingshot homolog 3 (Drosophila) | NM_017857, ENS | Coding | TRUE |
| slingshot homolog 3 (Drosophila) | NM_017857, ENS | Coding | TRUE |
| general transcription factor IIA, 2, 12kDa | NM_004492, ENS | Coding | TRUE |
| general transcription factor IIA, 2, 12kDa | NM_004492, ENS | Coding | TRUE |
| ubiquitin 1 | NM_001079514, | Coding | TRUE |
| ubiquitin 1 | NM_001079514, | Coding | TRUE |
| NLR family, pyrin domain containing 12 | NM_033297, NM | Coding | TRUE |
| NLR family, pyrin domain containing 12 | NM_033297, NM | Coding | TRUE |
| NLR family, pyrin domain containing 12 | NM_033297, NM | Coding | TRUE |
| scratch homolog 2, zinc finger protein (Drosophila), su | NM_033129, NM | Coding | TRUE |
| scratch homolog 2, zinc finger protein (Drosophila), su | NM_033129, NM | Coding | TRUE |
| scratch homolog 2, zinc finger protein (Drosophila), su | NM_033129, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| gamma-glutamyltransferase 1, gamma-glutamyltransfe | NM_005265, NM | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| discoidin domain receptor tyrosine kinase 1 | BC013400, NM_0 | Coding | TRUE |
| trans-golgi network protein 2 | NM_001206840, | Coding | TRUE |
| trans-golgi network protein 2 | NM_001206840, | Coding | TRUE |
| trans-golgi network protein 2 | NM_001206840, | Coding | TRUE |
| trans-golgi network protein 2 | NM_001206840, | Coding | TRUE |
| trans-golgi network protein 2 | NM_001206840, | Coding | TRUE |
| collagen, type VIII, alpha 1 | NM_001850, NM | Coding | TRUE |
| collagen, type VIII, alpha 1 | NM_001850, NM | Coding | TRUE |
| collagen, type VIII, alpha 1 | NM_001850, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| PTK2B protein tyrosine kinase 2 beta | NM_004103, NM | Coding | TRUE |
| PTK2B protein tyrosine kinase 2 beta | NM_004103, NM | Coding | TRUE |
| PTK2B protein tyrosine kinase 2 beta | NM_004103, NM | Coding | TRUE |
| PTK2B protein tyrosine kinase 2 beta | NM_004103, NM | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 1 | NM_002568, ENS | Coding | TRUE |
| poly(A) binding protein, cytoplasmic 1 | NM_002568, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| dihydropyrimidinase-like 4 | NM_006426, ENS | Coding | TRUE |
| glutamate dehydrogenase 1 | NM_005271, ENS | Coding | TRUE |
| glutamate dehydrogenase 1 | NM_005271, ENS | Coding | TRUE |
| glutamate dehydrogenase 1 | NM_005271, ENS | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member B1 | NM_000694, NM | Coding | TRUE |
| aldehyde dehydrogenase 3 family, member B1 | NM_000694, NM | Coding | TRUE |
| cysteine sulfinic acid decarboxylase | NM_001244705, | Coding | TRUE |
| cysteine sulfinic acid decarboxylase | NM_001244705, | Coding | TRUE |
| cysteine sulfinic acid decarboxylase | NM_001244705, | Coding | TRUE |
| breast cancer 2, early onset | NM_000059, ENS | Coding | TRUE |
| breast cancer 2, early onset | NM_000059, ENS | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| immunoglobulin heavy constant alpha 2 (A2m marker) | ENST000003905 | Coding | TRUE |
| nuclear receptor subfamily 1, group D, member 1 | NM_021724, ENS | Coding | TRUE |
| nuclear receptor subfamily 1, group D, member 1 | NM_021724, ENS | Coding | TRUE |
| nuclear receptor subfamily 1, group D, member 1 | NM_021724, ENS | Coding | TRUE |
| thioredoxin-related transmembrane protein 3 | NM_019022, ENS | Coding | TRUE |
| thioredoxin-related transmembrane protein 3 | NM_019022, ENS | Coding | TRUE |
| thioredoxin-related transmembrane protein 3 | NM_019022, ENS | Coding | TRUE |
| thioredoxin-related transmembrane protein 3 | NM_019022, ENS | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 1 | NM_173050, ENS | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 1 | NM_173050, ENS | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 1 | NM_173050, ENS | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| mitochondrial ribosomal protein L44 | NM_022915, ENS | Coding | TRUE |
| mitochondrial ribosomal protein L44 | NM_022915, ENS | Coding | TRUE |
| mitochondrial ribosomal protein L44 | NM_022915, ENS | Coding | TRUE |
| THUMP domain containing 2 | NM_025264, NR | Coding | TRUE |
| THUMP domain containing 2 | NM_025264, NR | Coding | TRUE |
| THUMP domain containing 2 | NM_025264, NR | Coding | TRUE |
| transmembrane protein 194B | NM_001142645, | Coding | TRUE |
| transmembrane protein 194B | NM_001142645, | Coding | TRUE |
| transmembrane protein 194B | NM_001142645, | Coding | TRUE |
| transmembrane protein 194B | NM_001142645, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| transmembrane protein 194B | NM_001142645, | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| GRB2-associated binding protein 1 | NM_002039, NM | Coding | TRUE |
| N-acylethanolamine acid amidase | NM_001042402, | Coding | TRUE |
| N-acylethanolamine acid amidase | NM_001042402, | Coding | TRUE |
| N-acylethanolamine acid amidase | NM_001042402, | Coding | TRUE |
| N-acylethanolamine acid amidase | NM_001042402, | Coding | TRUE |
| N-acylethanolamine acid amidase | NM_001042402, | Coding | TRUE |
| N-acylethanolamine acid amidase | NM_001042402, | Coding | TRUE |
| uncharacterized protein FLJ35946 | NR_033932, ENS | Coding | TRUE |
| uncharacterized protein FLJ35946 | NR_033932, ENS | Coding | TRUE |
| uncharacterized protein FLJ35946 | NR_033932, ENS | Coding | TRUE |
| tRNA methyltransferase 10 homolog B (S. cerevisiae) | NM_144964, ENS | Coding | TRUE |
| tRNA methyltransferase 10 homolog B (S. cerevisiae) | NM_144964, ENS | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase kinase | NM_004579, ENS | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase kinase | NM_004579, ENS | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase kinase | NM_004579, ENS | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase kinase | NM_004579, ENS | Coding | TRUE |
| C1q and tumor necrosis factor related protein 5, mem | ENST000005552 | Coding | TRUE |
| C1q and tumor necrosis factor related protein 5, mem | ENST000005552 | Coding | TRUE |
| C1q and tumor necrosis factor related protein 5, mem | ENST000005552 | Coding | TRUE |
| neogenin 1 | NM_002499, NM | Coding | TRUE |
| neogenin 1 | NM_002499, NM | Coding | TRUE |
| neogenin 1 | NM_002499, NM | Coding | TRUE |
| neogenin 1 | NM_002499, NM | Coding | TRUE |
| neogenin 1 | NM_002499, NM | Coding | TRUE |
| neogenin 1 | NM_002499, NM | Coding | TRUE |
| BCL2-like 13 (apoptosis facilitator) | NM_015367, ENS | Coding | TRUE |
| BCL2-like 13 (apoptosis facilitator) | NM_015367, ENS | Coding | TRUE |
| BCL2-like 13 (apoptosis facilitator) | NM_015367, ENS | Coding | TRUE |
| BCL2-like 13 (apoptosis facilitator) | NM_015367, ENS | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| period homolog 3 (Drosophila) | NM_016831, BC1 | Coding | TRUE |
| YTH domain family, member 2 | NM_001172828, | Coding | TRUE |
| YTH domain family, member 2 | NM_001172828, | Coding | TRUE |
| YTH domain family, member 2 | NM_001172828, | Coding | TRUE |
| thioesterase superfamily member 4 | NM_053055, ENS | Coding | TRUE |
| thioesterase superfamily member 4 | NM_053055, ENS | Coding | TRUE |
| thioesterase superfamily member 4 | NM_053055, ENS | Coding | TRUE |
| thioesterase superfamily member 4 | NM_053055, ENS | Coding | TRUE |
| thioesterase superfamily member 4 | NM_053055, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 27 | NM_016544, NM | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 27 | NM_016544, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| calcium/calmodulin-dependent protein kinase I | NM_003656, ENS | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase I | NM_003656, ENS | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase I | NM_003656, ENS | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase I | NM_003656, ENS | Coding | TRUE |
| uncharacterized LOC100506994 | NR_038281, NR | Coding | TRUE |
| uncharacterized LOC100506994 | NR_038281, NR | Coding | TRUE |
| uncharacterized LOC100506994 | NR_038281, NR | Coding | TRUE |
| uncharacterized LOC100506994 | NR_038281, NR | Coding | TRUE |
| uncharacterized LOC100506994 | NR_038281, NR | Coding | TRUE |
| uncharacterized LOC100506994 | NR_038281, NR | Coding | TRUE |
| transmembrane protein 175 | NM_032326, ENS | Coding | TRUE |
| transmembrane protein 175 | NM_032326, ENS | Coding | TRUE |
| T-cell lymphoma invasion and metastasis 2, uncharact | NM_012454, NM | Coding | TRUE |
| T-cell lymphoma invasion and metastasis 2, uncharact | NM_012454, NM | Coding | TRUE |
| T-cell lymphoma invasion and metastasis 2, uncharact | NM_012454, NM | Coding | TRUE |
| T-cell lymphoma invasion and metastasis 2, uncharact | NM_012454, NM | Coding | TRUE |
| T-cell lymphoma invasion and metastasis 2, uncharact | NM_012454, NM | Coding | TRUE |
| drebrin-like | NM_001014436, | Coding | TRUE |
| drebrin-like | NM_001014436, | Coding | TRUE |
| drebrin-like | NM_001014436, | Coding | TRUE |
| basic helix-loop-helix domain containing, class B, 9 | NM_001142524, | Coding | TRUE |
| basic helix-loop-helix domain containing, class B, 9 | NM_001142524, | Coding | TRUE |
| basic helix-loop-helix domain containing, class B, 9 | NM_001142524, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, cr | NM_001142805, | Coding | TRUE |
| N-myristoyltransferase 2 | NM_004808, ENS | Coding | TRUE |
| N-myristoyltransferase 2 | NM_004808, ENS | Coding | TRUE |
| N-myristoyltransferase 2 | NM_004808, ENS | Coding | TRUE |
| N-myristoyltransferase 2 | NM_004808, ENS | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| citron (rho-interacting, serine/threonine kinase 21), mic | NM_001206999, | Coding | TRUE |
| neurobeachin | NM_001204197, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| integrin alpha FG-GAP repeat containing 3 | NM_032039, ENS | Coding | TRUE |
| integrin alpha FG-GAP repeat containing 3 | NM_032039, ENS | Coding | TRUE |
| integrin alpha FG-GAP repeat containing 3 | NM_032039, ENS | Coding | TRUE |
| centromere protein F, 350/400kDa (mitosin) | NM_016343, ENS | Coding | TRUE |
| centromere protein F, 350/400kDa (mitosin) | NM_016343, ENS | Coding | TRUE |
| centromere protein F, 350/400kDa (mitosin) | NM_016343, ENS | Coding | TRUE |
| centromere protein F, 350/400kDa (mitosin) | NM_016343, ENS | Coding | TRUE |
| centromere protein F, 350/400kDa (mitosin) | NM_016343, ENS | Coding | TRUE |
| centromere protein F, 350/400kDa (mitosin) | NM_016343, ENS | Coding | TRUE |
| cysteine-serine-rich nuclear protein 3 | NM_001172173, | Coding | TRUE |
| cysteine-serine-rich nuclear protein 3 | NM_001172173, | Coding | TRUE |
| cysteine-serine-rich nuclear protein 3 | NM_001172173, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| origin recognition complex, subunit 4 | NM_001190879, | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| nicolin 1 | ENST000002735 | Coding | TRUE |
| solute carrier family 38, member 9 | NM_173514, ENS | Coding | TRUE |
| solute carrier family 38, member 9 | NM_173514, ENS | Coding | TRUE |
| solute carrier family 38, member 9 | NM_173514, ENS | Coding | TRUE |
| solute carrier family 38, member 9 | NM_173514, ENS | Coding | TRUE |
| solute carrier family 38, member 9 | NM_173514, ENS | Coding | TRUE |
| Sp4 transcription factor | NM_003112, ENS | Coding | TRUE |
| Sp4 transcription factor | NM_003112, ENS | Coding | TRUE |
| Sp4 transcription factor | NM_003112, ENS | Coding | TRUE |
| Sp4 transcription factor | NM_003112, ENS | Coding | TRUE |
| Sp4 transcription factor | NM_003112, ENS | Coding | TRUE |
| Sp4 transcription factor | NM_003112, ENS | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| chromosome 7 open reading frame 10 | NM_001193311, | Coding | TRUE |
| MyoD family inhibitor domain containing | NM_001166345, | Coding | TRUE |
| MyoD family inhibitor domain containing | NM_001166345, | Coding | TRUE |
| MyoD family inhibitor domain containing | NM_001166345, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| dedicator of cytokinesis 4 | NM_014705, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family A, | NM_001163, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family A, | NM_001163, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family A, | NM_001163, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| jumonji domain containing 1C | NM_004241, NM | Coding | TRUE |
| jumonji domain containing 1C | NM_004241, NM | Coding | TRUE |
| jumonji domain containing 1C | NM_004241, NM | Coding | TRUE |
| jumonji domain containing 1C | NM_004241, NM | Coding | TRUE |
| jumonji domain containing 1C | NM_004241, NM | Coding | TRUE |
| jumonji domain containing 1C | NM_004241, NM | Coding | TRUE |
| ArfGAP with GTPase domain, ankyrin repeat and PH d | NM_001144000, | Coding | TRUE |
| ArfGAP with GTPase domain, ankyrin repeat and PH d | NM_001144000, | Coding | TRUE |
| ArfGAP with GTPase domain, ankyrin repeat and PH d | NM_001144000, | Coding | TRUE |
| dehydrogenase/reductase (SDR family) member 12 | NM_001031719, | Coding | TRUE |
| dehydrogenase/reductase (SDR family) member 12 | NM_001031719, | Coding | TRUE |
| ring finger and SPRY domain containing 1 | NM_133368, ENS | Coding | TRUE |
| ring finger and SPRY domain containing 1 | NM_133368, ENS | Coding | TRUE |
| nuclear pore complex interacting protein-like 3 | NM_130464, ENS | Coding | TRUE |
| nuclear pore complex interacting protein-like 3 | NM_130464, ENS | Coding | TRUE |
| nuclear pore complex interacting protein-like 3 | NM_130464, ENS | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| RAP1 GTPase activating protein 2 | NM_001100398, | Coding | TRUE |
| acyl-CoA dehydrogenase, very long chain | NM_000018, NM | Coding | TRUE |
| acyl-CoA dehydrogenase, very long chain | NM_000018, NM | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| acyl-CoA synthetase family member 2 | NM_025149, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| B-cell CLL/lymphoma 3 | NM_005178, ENS | Coding | TRUE |
| phosphatase and actin regulator 2 | NM_014721, NM | Coding | TRUE |
| phosphatase and actin regulator 2 | NM_014721, NM | Coding | TRUE |
| KIAA0319-like | NM_024874, ENS | Coding | TRUE |
| KIAA0319-like | NM_024874, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| tenascin XB, tenascin XA (pseudogene) | NM_019105, NM_ | Coding | TRUE |
| tenascin XB, tenascin XA (pseudogene) | NM_019105, NM_ | Coding | TRUE |
| tenascin XB, tenascin XA (pseudogene) | NM_019105, NM_ | Coding | TRUE |
| tenascin XB | NM_019105, NM_ | Coding | TRUE |
| tenascin XB | NM_019105, NM_ | Coding | TRUE |
| tenascin XB | NM_019105, NM_ | Coding | TRUE |
| tenascin XB | NM_019105, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM_ | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| G protein-coupled receptor 155 | NM_001033045, | Coding | TRUE |
| G protein-coupled receptor 155 | NM_001033045, | Coding | TRUE |
| G protein-coupled receptor 155 | NM_001033045, | Coding | TRUE |
| G protein-coupled receptor 155 | NM_001033045, | Coding | TRUE |
| activated leukocyte cell adhesion molecule | NM_001243280, | Coding | TRUE |
| activated leukocyte cell adhesion molecule | NM_001243280, | Coding | TRUE |
| uncharacterized LOC100507291 | ENST000005046 | Coding | TRUE |
| uncharacterized LOC100507291 | ENST000005046 | Coding | TRUE |
| mitochondrial ribosomal protein S25 | NM_022497, ENS | Coding | TRUE |
| mitochondrial ribosomal protein S25 | NM_022497, ENS | Coding | TRUE |
| mitochondrial ribosomal protein S25 | NM_022497, ENS | Coding | TRUE |
| mitochondrial ribosomal protein S25 | NM_022497, ENS | Coding | TRUE |
| NME/NM23 nucleoside diphosphate kinase 6 | BC012828, ENS | Coding | TRUE |
| NME/NM23 nucleoside diphosphate kinase 6 | BC012828, ENS | Coding | TRUE |
| NME/NM23 nucleoside diphosphate kinase 6 | BC012828, ENS | Coding | TRUE |
| NME/NM23 nucleoside diphosphate kinase 6 | BC012828, ENS | Coding | TRUE |
| polybromo 1 | NM_018165, NM_ | Coding | TRUE |
| polybromo 1 | NM_018165, NM_ | Coding | TRUE |
| polybromo 1 | NM_018165, NM_ | Coding | TRUE |
| polybromo 1 | NM_018165, NM_ | Coding | TRUE |
| polybromo 1 | NM_018165, NM_ | Coding | TRUE |
| polybromo 1 | NM_018165, NM_ | Coding | TRUE |
| armadillo repeat containing 2 | NM_032131, ENS | Coding | TRUE |
| armadillo repeat containing 2 | NM_032131, ENS | Coding | TRUE |
| armadillo repeat containing 2 | NM_032131, ENS | Coding | TRUE |
| armadillo repeat containing 2 | NM_032131, ENS | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| lipase A, lysosomal acid, cholesterol esterase, unchara | NM_000235, NM_ | Coding | TRUE |
| caspase 1, apoptosis-related cysteine peptidase | NM_001223, NM_ | Coding | TRUE |
| caspase 1, apoptosis-related cysteine peptidase | NM_001223, NM_ | Coding | TRUE |
| caspase 1, apoptosis-related cysteine peptidase | NM_001223, NM_ | Coding | TRUE |
| caspase 1, apoptosis-related cysteine peptidase | NM_001223, NM_ | Coding | TRUE |
| spla/ryanodine receptor domain and SOCS box containi | NM_001146316, | Coding | TRUE |
| spla/ryanodine receptor domain and SOCS box containi | NM_001146316, | Coding | TRUE |
| WAS protein homolog associated with actin, golgi men | NR_026589, ENS | Coding | TRUE |
| WAS protein homolog associated with actin, golgi men | NR_026589, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| G protein-coupled receptor 56 | NM_001145772, | Coding | TRUE |
| solute carrier family 13 (sodium-dependent citrate tran | NM_001143838, | Coding | TRUE |
| solute carrier family 13 (sodium-dependent citrate tran | NM_001143838, | Coding | TRUE |
| solute carrier family 13 (sodium-dependent citrate tran | NM_001143838, | Coding | TRUE |
| solute carrier family 13 (sodium-dependent citrate tran | NM_001143838, | Coding | TRUE |
| solute carrier family 13 (sodium-dependent citrate tran | NM_001143838, | Coding | TRUE |
| solute carrier family 13 (sodium-dependent citrate tran | NM_001143838, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 1 | NM_001024807, | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic polyf | NM_004900, ENS | Coding | TRUE |
| hydroxysteroid (17-beta) dehydrogenase 7 | NM_016371, ENS | Coding | TRUE |
| hydroxysteroid (17-beta) dehydrogenase 7 | NM_016371, ENS | Coding | TRUE |
| hydroxysteroid (17-beta) dehydrogenase 7 | NM_016371, ENS | Coding | TRUE |
| hydroxysteroid (17-beta) dehydrogenase 7 | NM_016371, ENS | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 75kDa | NM_005540, ENS | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 75kDa | NM_005540, ENS | Coding | TRUE |
| leucine proline-enriched proteoglycan (leprecan) 1 | NM_001146289, | Coding | TRUE |
| leucine proline-enriched proteoglycan (leprecan) 1 | NM_001146289, | Coding | TRUE |
| leucine proline-enriched proteoglycan (leprecan) 1 | NM_001146289, | Coding | TRUE |
| leucine proline-enriched proteoglycan (leprecan) 1 | NM_001146289, | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 3 | NM_024602, ENS | Coding | TRUE |
| microtubule-associated protein, RP/EB family, membe | NM_012326, ENS | Coding | TRUE |
| microtubule-associated protein, RP/EB family, membe | NM_012326, ENS | Coding | TRUE |
| microtubule-associated protein, RP/EB family, membe | NM_012326, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| Holliday junction recognition protein | NM_018410, ENS | Coding | TRUE |
| integrin, alpha 1 | NM_181501, ENS | Coding | TRUE |
| integrin, alpha 1 | NM_181501, ENS | Coding | TRUE |
| integrin, alpha 1 | NM_181501, ENS | Coding | TRUE |
| integrin, alpha 1 | NM_181501, ENS | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| small nucleolar RNA, C/D box 49A, small nucleolar RN | NR_002744, NR | Coding | TRUE |
| uncharacterized LOC100133991 | NR_024434, NR | Coding | TRUE |
| uncharacterized LOC100133991 | NR_024434, NR | Coding | TRUE |
| DEXH (Asp-Glu-X-His) box polypeptide 58 | NM_024119, ENS | Coding | TRUE |
| DEXH (Asp-Glu-X-His) box polypeptide 58 | NM_024119, ENS | Coding | TRUE |
| DEXH (Asp-Glu-X-His) box polypeptide 58 | NM_024119, ENS | Coding | TRUE |
| DEXH (Asp-Glu-X-His) box polypeptide 58 | NM_024119, ENS | Coding | TRUE |
| DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 1 | NR_046018, ENS | Coding | TRUE |
| DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 1 | NR_046018, ENS | Coding | TRUE |
| DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 1 | NR_046018, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| IQ motif containing GTPase activating protein 3 | NM_178229, ENS | Coding | TRUE |
| membrane-associated ring finger (C3HC4) 7, E3 ubiqu | NM_022826, ENS | Coding | TRUE |
| membrane-associated ring finger (C3HC4) 7, E3 ubiqu | NM_022826, ENS | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein L-like | NM_001142650, | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein L-like | NM_001142650, | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein L-like | NM_001142650, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| DAZ interacting protein 1-like | NM_001170538, | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| heat shock 70kDa protein 4-like | NM_014278, ENS | Coding | TRUE |
| stimulator of chondrogenesis 1 | NM_007281, ENS | Coding | TRUE |
| stimulator of chondrogenesis 1 | NM_007281, ENS | Coding | TRUE |
| mitochondria-localized glutamic acid-rich protein | NM_032623, ENS | Coding | TRUE |
| mitochondria-localized glutamic acid-rich protein | NM_032623, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| mitochondria-localized glutamic acid-rich protein | NM_032623, ENS | Coding | TRUE |
| mitochondria-localized glutamic acid-rich protein | NM_032623, ENS | Coding | TRUE |
| protocadherin beta 9 | NM_019119, BC1 | Coding | TRUE |
| protocadherin beta 9 | NM_019119, BC1 | Coding | TRUE |
| protocadherin beta 9 | NM_019119, BC1 | Coding | TRUE |
| RAD1 homolog (S. pombe) | NM_002853, NR | Coding | TRUE |
| RAD1 homolog (S. pombe) | NM_002853, NR | Coding | TRUE |
| cysteine dioxygenase, type I | NM_001801, ENS | Coding | TRUE |
| cysteine dioxygenase, type I | NM_001801, ENS | Coding | TRUE |
| cysteine dioxygenase, type I | NM_001801, ENS | Coding | TRUE |
| cysteine dioxygenase, type I | NM_001801, ENS | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| microRNA 23b, microRNA 24-1, microRNA 27b, chrom | NR_029664, NR | Coding | TRUE |
| calcium channel, voltage-dependent, N type, alpha 1B | NM_000718, NM | Coding | TRUE |
| calcium channel, voltage-dependent, N type, alpha 1B | NM_000718, NM | Coding | TRUE |
| calcium channel, voltage-dependent, N type, alpha 1B | NM_000718, NM | Coding | TRUE |
| calcium channel, voltage-dependent, N type, alpha 1B | NM_000718, NM | Coding | TRUE |
| calcium channel, voltage-dependent, N type, alpha 1B | NM_000718, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger and BTB domain containing 16 | NM_001018011, | Coding | TRUE |
| zinc finger, BED-type containing 5 | NM_021211, NM | Coding | TRUE |
| zinc finger, BED-type containing 5 | NM_021211, NM | Coding | TRUE |
| zinc finger, BED-type containing 5 | NM_021211, NM | Coding | TRUE |
| zinc finger, BED-type containing 5 | NM_021211, NM | Coding | TRUE |
| zinc finger, BED-type containing 5 | NM_021211, NM | Coding | TRUE |
| F-box protein 21 | NM_015002, NM | Coding | TRUE |
| F-box protein 21 | NM_015002, NM | Coding | TRUE |
| F-box protein 21 | NM_015002, NM | Coding | TRUE |
| SH3 domain binding glutamic acid-rich protein | NM_001001713, | Coding | TRUE |
| SH3 domain binding glutamic acid-rich protein | NM_001001713, | Coding | TRUE |
| SH3 domain binding glutamic acid-rich protein | NM_001001713, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| homeobox C6 | NM_004503, ENS | Coding | TRUE |
| homeobox C6 | NM_004503, ENS | Coding | TRUE |
| mitochondrial ribosomal protein L52 | NM_178336, NM | Coding | TRUE |
| mitochondrial ribosomal protein L52 | NM_178336, NM | Coding | TRUE |
| mitochondrial ribosomal protein L52 | NM_178336, NM | Coding | TRUE |
| mitochondrial ribosomal protein L52 | NM_178336, NM | Coding | TRUE |
| signal-regulatory protein gamma | NM_018556, NM | Coding | TRUE |
| signal-regulatory protein gamma | NM_018556, NM | Coding | TRUE |
| signal-regulatory protein gamma | NM_018556, NM | Coding | TRUE |
| signal-regulatory protein gamma | NM_018556, NM | Coding | TRUE |
| signal-regulatory protein gamma | NM_018556, NM | Coding | TRUE |
| signal-regulatory protein gamma | NM_018556, NM | Coding | TRUE |
| intersectin 1 (SH3 domain protein) | NM_001001132, | Coding | TRUE |
| intersectin 1 (SH3 domain protein) | NM_001001132, | Coding | TRUE |
| intersectin 1 (SH3 domain protein) | NM_001001132, | Coding | TRUE |
| intersectin 1 (SH3 domain protein) | NM_001001132, | Coding | TRUE |
| intersectin 1 (SH3 domain protein) | NM_001001132, | Coding | TRUE |
| patatin-like phospholipase domain containing 3 | NM_025225, ENS | Coding | TRUE |
| patatin-like phospholipase domain containing 3 | NM_025225, ENS | Coding | TRUE |
| patatin-like phospholipase domain containing 3 | NM_025225, ENS | Coding | TRUE |
| patatin-like phospholipase domain containing 3 | NM_025225, ENS | Coding | TRUE |
| patatin-like phospholipase domain containing 3 | NM_025225, ENS | Coding | TRUE |
| patatin-like phospholipase domain containing 3 | NM_025225, ENS | Coding | TRUE |
| vacuolar protein sorting 52 homolog (S. cerevisiae) | NM_022553, BCC | Coding | TRUE |
| vacuolar protein sorting 52 homolog (S. cerevisiae) | NM_022553, BCC | Coding | TRUE |
| vacuolar protein sorting 52 homolog (S. cerevisiae) | NM_022553, BCC | Coding | TRUE |
| vacuolar protein sorting 52 homolog (S. cerevisiae) | NM_022553, BCC | Coding | TRUE |
| vacuolar protein sorting 52 homolog (S. cerevisiae) | NM_022553, BCC | Coding | TRUE |
| MTERF domain containing 2 | NM_182501, NR | Coding | TRUE |
| MTERF domain containing 2 | NM_182501, NR | Coding | TRUE |
| MTERF domain containing 2 | NM_182501, NR | Coding | TRUE |
| MTERF domain containing 2 | NM_182501, NR | Coding | TRUE |
| nuclear cap binding protein subunit 2, 20kDa | NM_001042540, | Coding | TRUE |
| nuclear cap binding protein subunit 2, 20kDa | NM_001042540, | Coding | TRUE |
| nuclear cap binding protein subunit 2, 20kDa | NM_001042540, | Coding | TRUE |
| nuclear cap binding protein subunit 2, 20kDa | NM_001042540, | Coding | TRUE |
| WD repeat domain 6 | NM_018031, ENS | Coding | TRUE |
| WD repeat domain 6 | NM_018031, ENS | Coding | TRUE |
| WD repeat domain 6 | NM_018031, ENS | Coding | TRUE |
| WD repeat domain 6 | NM_018031, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| CD4 molecule | NM_000616, NM | Coding | TRUE |
| leukotriene A4 hydrolase | NM_000895, ENS | Coding | TRUE |
| leukotriene A4 hydrolase | NM_000895, ENS | Coding | TRUE |
| leukotriene A4 hydrolase | NM_000895, ENS | Coding | TRUE |
| leukotriene A4 hydrolase | NM_000895, ENS | Coding | TRUE |
| leukotriene A4 hydrolase | NM_000895, ENS | Coding | TRUE |
| family with sequence similarity 174, member B | NM_207446, ENS | Coding | TRUE |
| family with sequence similarity 174, member B | NM_207446, ENS | Coding | TRUE |
| family with sequence similarity 174, member B | NM_207446, ENS | Coding | TRUE |
| family with sequence similarity 174, member B | NM_207446, ENS | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| WW domain containing E3 ubiquitin protein ligase 2 | NM_007014, NM | Coding | TRUE |
| membrane protein, palmitoylated 2 (MAGUK p55 subf | NM_005374, ENS | Coding | TRUE |
| membrane protein, palmitoylated 2 (MAGUK p55 subf | NM_005374, ENS | Coding | TRUE |
| membrane protein, palmitoylated 2 (MAGUK p55 subf | NM_005374, ENS | Coding | TRUE |
| membrane protein, palmitoylated 2 (MAGUK p55 subf | NM_005374, ENS | Coding | TRUE |
| membrane protein, palmitoylated 2 (MAGUK p55 subf | NM_005374, ENS | Coding | TRUE |
| membrane protein, palmitoylated 2 (MAGUK p55 subf | NM_005374, ENS | Coding | TRUE |
| NDC80 kinetochore complex component homolog (S. | NM_006101, ENS | Coding | TRUE |
| NDC80 kinetochore complex component homolog (S. | NM_006101, ENS | Coding | TRUE |
| NDC80 kinetochore complex component homolog (S. | NM_006101, ENS | Coding | TRUE |
| NDC80 kinetochore complex component homolog (S. | NM_006101, ENS | Coding | TRUE |
| NDC80 kinetochore complex component homolog (S. | NM_006101, ENS | Coding | TRUE |
| phosphoinositide-3-kinase interacting protein 1 | NM_001135911, I | Coding | TRUE |
| phosphoinositide-3-kinase interacting protein 1 | NM_001135911, I | Coding | TRUE |
| phosphoinositide-3-kinase interacting protein 1 | NM_001135911, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, I | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, H (pseudoge | NR_001434 | Coding | TRUE |
| major histocompatibility complex, class I, G | NM_002127, BCC | Coding | TRUE |
| major histocompatibility complex, class I, G | NM_002127, BCC | Coding | TRUE |
| major histocompatibility complex, class I, G | NM_002127, BCC | Coding | TRUE |
| protein kinase D3 | NM_005813, ENS | Coding | TRUE |
| protein kinase D3 | NM_005813, ENS | Coding | TRUE |
| protein kinase D3 | NM_005813, ENS | Coding | TRUE |
| protease, serine, 42 | NM_182702, ENS | Coding | TRUE |
| protease, serine, 42 | NM_182702, ENS | Coding | TRUE |
| protease, serine, 42 | NM_182702, ENS | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| matrilin 2, uncharacterized LOC100506558 | NM_002380, NM | Coding | TRUE |
| cathepsin L1 | NM_001912, NM | Coding | TRUE |
| cathepsin L1 | NM_001912, NM | Coding | TRUE |
| cathepsin L1 | NM_001912, NM | Coding | TRUE |
| cathepsin L1 | NM_001912, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| cathepsin L1 | NM_001912, NM | Coding | TRUE |
| cathepsin L1 | NM_001912, NM | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| glycoprotein M6B | NM_001001994, | Coding | TRUE |
| chromosome 15 open reading frame 40 | NM_144597, NM | Coding | TRUE |
| chromosome 15 open reading frame 40 | NM_144597, NM | Coding | TRUE |
| chromosome 15 open reading frame 40 | NM_144597, NM | Coding | TRUE |
| chromosome 15 open reading frame 40 | NM_144597, NM | Coding | TRUE |
| RAB11 family interacting protein 4 (class II), microRNA | NM_032932, NR | Coding | TRUE |
| RAB11 family interacting protein 4 (class II), microRNA | NM_032932, NR | Coding | TRUE |
| RAB11 family interacting protein 4 (class II), microRNA | NM_032932, NR | Coding | TRUE |
| ADAM metallopeptidase domain 33 | NM_025220, NM | Coding | TRUE |
| ADAM metallopeptidase domain 33 | NM_025220, NM | Coding | TRUE |
| ADAM metallopeptidase domain 33 | NM_025220, NM | Coding | TRUE |
| small G protein signaling modulator 3 | NM_015705, ENS | Coding | TRUE |
| small G protein signaling modulator 3 | NM_015705, ENS | Coding | TRUE |
| exosome component 10 | NM_001001998, | Coding | TRUE |
| exosome component 10 | NM_001001998, | Coding | TRUE |
| exosome component 10 | NM_001001998, | Coding | TRUE |
| exosome component 10 | NM_001001998, | Coding | TRUE |
| phospholipase A2, group IIA (platelets, synovial fluid) | NM_000300, NM | Coding | TRUE |
| phospholipase A2, group IIA (platelets, synovial fluid) | NM_000300, NM | Coding | TRUE |
| phospholipase A2, group IIA (platelets, synovial fluid) | NM_000300, NM | Coding | TRUE |
| RWD domain containing 3 | NM_015485, NM | Coding | TRUE |
| RWD domain containing 3 | NM_015485, NM | Coding | TRUE |
| POTE ankyrin domain family, member J | ENST000004096 | Coding | TRUE |
| POTE ankyrin domain family, member J | ENST000004096 | Coding | TRUE |
| POTE ankyrin domain family, member J | ENST000004096 | Coding | TRUE |
| coiled-coil domain containing 14 | NM_022757, BCC | Coding | TRUE |
| coiled-coil domain containing 14 | NM_022757, BCC | Coding | TRUE |
| coiled-coil domain containing 14 | NM_022757, BCC | Coding | TRUE |
| coiled-coil domain containing 14 | NM_022757, BCC | Coding | TRUE |
| coiled-coil domain containing 14 | NM_022757, BCC | Coding | TRUE |
| coiled-coil domain containing 14 | NM_022757, BCC | Coding | TRUE |
| uncharacterized LOC550112, uncharacterized LOC550112 | NR_015439, NR | Coding | TRUE |
| uncharacterized LOC550112, uncharacterized LOC550112 | NR_015439, NR | Coding | TRUE |
| uncharacterized LOC550112, uncharacterized LOC550112 | NR_015439, NR | Coding | TRUE |
| uncharacterized LOC550112, uncharacterized LOC550112 | NR_015439, NR | Coding | TRUE |
| uncharacterized LOC550112, uncharacterized LOC550112 | NR_015439, NR | Coding | TRUE |
| centrosomal protein 72kDa | NM_018140, ENS | Coding | TRUE |
| centrosomal protein 72kDa | NM_018140, ENS | Coding | TRUE |
| centrosomal protein 72kDa | NM_018140, ENS | Coding | TRUE |
| centrosomal protein 72kDa | NM_018140, ENS | Coding | TRUE |

| | | | |
|--|--------------------------|--------|------|
| KH homology domain containing 1-like, KH homology | NM_001126063, | Coding | TRUE |
| KH homology domain containing 1-like, KH homology | NM_001126063, | Coding | TRUE |
| KH homology domain containing 1-like, KH homology | NM_001126063, | Coding | TRUE |
| KH homology domain containing 1-like, KH homology | NM_001126063, | Coding | TRUE |
| KH homology domain containing 1-like, KH homology | NM_001126063, | Coding | TRUE |
| KH homology domain containing 1-like, KH homology | NM_001126063, | Coding | TRUE |
| homeobox A3 | NM_030661, NM_030661, | Coding | TRUE |
| homeobox A3 | NM_030661, NM_030661, | Coding | TRUE |
| homeobox A3 | NM_030661, NM_030661, | Coding | TRUE |
| homeobox A3 | NM_030661, NM_030661, | Coding | TRUE |
| homeobox A3 | NM_030661, NM_030661, | Coding | TRUE |
| chromosome 11 open reading frame 9 | NM_013279, NM_013279, | Coding | TRUE |
| chromosome 11 open reading frame 9 | NM_013279, NM_013279, | Coding | TRUE |
| chromosome 11 open reading frame 9 | NM_013279, NM_013279, | Coding | TRUE |
| chromosome 11 open reading frame 9 | NM_013279, NM_013279, | Coding | TRUE |
| chromosome 11 open reading frame 9 | NM_013279, NM_013279, | Coding | TRUE |
| 2-5-oligoadenylate synthetase 1, 40/46kDa | NM_001032409, | Coding | TRUE |
| 2-5-oligoadenylate synthetase 1, 40/46kDa | NM_001032409, | Coding | TRUE |
| 2-5-oligoadenylate synthetase 1, 40/46kDa | NM_001032409, | Coding | TRUE |
| placental growth factor | NM_001207012, | Coding | TRUE |
| placental growth factor | NM_001207012, | Coding | TRUE |
| placental growth factor | NM_001207012, | Coding | TRUE |
| placental growth factor | NM_001207012, | Coding | TRUE |
| placental growth factor | NM_001207012, | Coding | TRUE |
| placental growth factor | NM_001207012, | Coding | TRUE |
| arginyl aminopeptidase (aminopeptidase B) | NM_020216, ENS001207012, | Coding | TRUE |
| arginyl aminopeptidase (aminopeptidase B) | NM_020216, ENS001207012, | Coding | TRUE |
| arginyl aminopeptidase (aminopeptidase B) | NM_020216, ENS001207012, | Coding | TRUE |
| arginyl aminopeptidase (aminopeptidase B) | NM_020216, ENS001207012, | Coding | TRUE |
| cysteine-rich PDZ-binding protein | NM_014171, ENS001207012, | Coding | TRUE |
| cysteine-rich PDZ-binding protein | NM_014171, ENS001207012, | Coding | TRUE |
| cysteine-rich PDZ-binding protein | NM_014171, ENS001207012, | Coding | TRUE |
| cysteine-rich PDZ-binding protein | NM_014171, ENS001207012, | Coding | TRUE |
| cysteine-rich PDZ-binding protein | NM_014171, ENS001207012, | Coding | TRUE |
| sterile alpha motif and leucine zipper containing kinase | NM_016653, NM_016653, | Coding | TRUE |
| sterile alpha motif and leucine zipper containing kinase | NM_016653, NM_016653, | Coding | TRUE |
| sterile alpha motif and leucine zipper containing kinase | NM_016653, NM_016653, | Coding | TRUE |
| pellino E3 ubiquitin protein ligase 1 | NM_020651, ENS001207012, | Coding | TRUE |
| pellino E3 ubiquitin protein ligase 1 | NM_020651, ENS001207012, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_001127178, | Coding | TRUE |
| shroom family member 3 | NM_020859, ENS001207012, | Coding | TRUE |
| shroom family member 3 | NM_020859, ENS001207012, | Coding | TRUE |
| shroom family member 3 | NM_020859, ENS001207012, | Coding | TRUE |
| shroom family member 3 | NM_020859, ENS001207012, | Coding | TRUE |
| shroom family member 3 | NM_020859, ENS001207012, | Coding | TRUE |
| shroom family member 3 | NM_020859, ENS001207012, | Coding | TRUE |
| 3-hydroxy-3-methylglutaryl-CoA reductase | NM_000859, NM_000859, | Coding | TRUE |
| 3-hydroxy-3-methylglutaryl-CoA reductase | NM_000859, NM_000859, | Coding | TRUE |
| 3-hydroxy-3-methylglutaryl-CoA reductase | NM_000859, NM_000859, | Coding | TRUE |
| nucleophosmin (nucleolar phosphoprotein B23, numat | NM_001037738, | Coding | TRUE |
| nucleophosmin (nucleolar phosphoprotein B23, numat | NM_001037738, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| growth arrest-specific 7 | NM_201433, NM | Coding | TRUE |
| growth arrest-specific 7 | NM_201433, NM | Coding | TRUE |
| growth arrest-specific 7 | NM_201433, NM | Coding | TRUE |
| growth arrest-specific 7 | NM_201433, NM | Coding | TRUE |
| growth arrest-specific 7 | NM_201433, NM | Coding | TRUE |
| THO complex 1 | NM_005131, ENS | Coding | TRUE |
| THO complex 1 | NM_005131, ENS | Coding | TRUE |
| THO complex 1 | NM_005131, ENS | Coding | TRUE |
| THO complex 1 | NM_005131, ENS | Coding | TRUE |
| zinc finger protein 419 | NM_001098491, | Coding | TRUE |
| zinc finger protein 419 | NM_001098491, | Coding | TRUE |
| dual-specificity tyrosine-(Y)-phosphorylation regulated | NM_004714, NM | Coding | TRUE |
| dual-specificity tyrosine-(Y)-phosphorylation regulated | NM_004714, NM | Coding | TRUE |
| dual-specificity tyrosine-(Y)-phosphorylation regulated | NM_004714, NM | Coding | TRUE |
| dual-specificity tyrosine-(Y)-phosphorylation regulated | NM_004714, NM | Coding | TRUE |
| dual-specificity tyrosine-(Y)-phosphorylation regulated | NM_004714, NM | Coding | TRUE |
| heat shock 70kDa protein 1A, heat shock 70kDa prote | NM_005345, ENS | Coding | TRUE |
| heat shock 70kDa protein 1A, heat shock 70kDa prote | NM_005345, ENS | Coding | TRUE |
| kelch-like 7 (Drosophila) | NM_001031710, | Coding | TRUE |
| kelch-like 7 (Drosophila) | NM_001031710, | Coding | TRUE |
| kelch-like 7 (Drosophila) | NM_001031710, | Coding | TRUE |
| kelch-like 7 (Drosophila) | NM_001031710, | Coding | TRUE |
| kelch-like 7 (Drosophila) | NM_001031710, | Coding | TRUE |
| RNA terminal phosphate cyclase-like 1 | NM_005772, ENS | Coding | TRUE |
| RNA terminal phosphate cyclase-like 1 | NM_005772, ENS | Coding | TRUE |
| RNA terminal phosphate cyclase-like 1 | NM_005772, ENS | Coding | TRUE |
| spermine synthase | NM_004595, ENS | Coding | TRUE |
| spermine synthase | NM_004595, ENS | Coding | TRUE |
| spermine synthase | NM_004595, ENS | Coding | TRUE |
| spermine synthase | NM_004595, ENS | Coding | TRUE |
| family with sequence similarity 107, member B | NM_031453, ENS | Coding | TRUE |
| family with sequence similarity 107, member B | NM_031453, ENS | Coding | TRUE |
| family with sequence similarity 107, member B | NM_031453, ENS | Coding | TRUE |
| MMS19 nucleotide excision repair homolog (S. cerevis) | NM_022362, ENS | Coding | TRUE |
| MMS19 nucleotide excision repair homolog (S. cerevis) | NM_022362, ENS | Coding | TRUE |
| MMS19 nucleotide excision repair homolog (S. cerevis) | NM_022362, ENS | Coding | TRUE |
| MMS19 nucleotide excision repair homolog (S. cerevis) | NM_022362, ENS | Coding | TRUE |
| multiple endocrine neoplasia I | NM_000244, NM | Coding | TRUE |
| multiple endocrine neoplasia I | NM_000244, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| calcium channel, voltage-dependent, T type, alpha 1G | NM_198397, NM | Coding | TRUE |
| microtubule-associated protein, RP/EB family, member | NM_001143826, | Coding | TRUE |
| microtubule-associated protein, RP/EB family, member | NM_001143826, | Coding | TRUE |
| microtubule-associated protein, RP/EB family, member | NM_001143826, | Coding | TRUE |
| microtubule-associated protein, RP/EB family, member | NM_001143826, | Coding | TRUE |
| microtubule-associated protein, RP/EB family, member | NM_001143826, | Coding | TRUE |
| zinc finger protein 133 | NM_003434, NM | Coding | TRUE |
| zinc finger protein 133 | NM_003434, NM | Coding | TRUE |
| zinc finger protein 133 | NM_003434, NM | Coding | TRUE |
| zinc finger protein 133 | NM_003434, NM | Coding | TRUE |
| KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protei | NM_006855, NM | Coding | TRUE |
| KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protei | NM_006855, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| COBW domain containing 5, COBW domain containing | NM_001024916, | Coding | TRUE |
| COBW domain containing 5, COBW domain containing | NM_001024916, | Coding | TRUE |
| mediator complex subunit 12 | NM_005120, ENS | Coding | TRUE |
| mediator complex subunit 12 | NM_005120, ENS | Coding | TRUE |
| mediator complex subunit 12 | NM_005120, ENS | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| neuroligin 4, Y-linked | NM_001164238, | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 | NM_024045, BCC | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 | NM_024045, BCC | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 | NM_024045, BCC | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 | NM_024045, BCC | Coding | TRUE |
| acyl-CoA synthetase long-chain family member 5 | NM_016234, NM | Coding | TRUE |
| acyl-CoA synthetase long-chain family member 5 | NM_016234, NM | Coding | TRUE |
| acyl-CoA synthetase long-chain family member 5 | NM_016234, NM | Coding | TRUE |
| acyl-CoA synthetase long-chain family member 5 | NM_016234, NM | Coding | TRUE |
| acyl-CoA synthetase long-chain family member 5 | NM_016234, NM | Coding | TRUE |
| acyl-CoA synthetase long-chain family member 5 | NM_016234, NM | Coding | TRUE |
| transcription factor 7-like 2 (T-cell specific, HMG-box) | NM_001146274, | Coding | TRUE |
| transcription factor 7-like 2 (T-cell specific, HMG-box) | NM_001146274, | Coding | TRUE |
| transcription factor 7-like 2 (T-cell specific, HMG-box) | NM_001146274, | Coding | TRUE |
| transcription factor 7-like 2 (T-cell specific, HMG-box) | NM_001146274, | Coding | TRUE |
| transcription factor 7-like 2 (T-cell specific, HMG-box) | NM_001146274, | Coding | TRUE |
| sodium channel, voltage-gated, type IV, beta subunit | NM_001142348, | Coding | TRUE |
| sodium channel, voltage-gated, type IV, beta subunit | NM_001142348, | Coding | TRUE |
| sodium channel, voltage-gated, type IV, beta subunit | NM_001142348, | Coding | TRUE |
| sodium channel, voltage-gated, type IV, beta subunit | NM_001142348, | Coding | TRUE |
| GLI family zinc finger 1 | NM_001160045, | Coding | TRUE |
| GLI family zinc finger 1 | NM_001160045, | Coding | TRUE |
| GLI family zinc finger 1 | NM_001160045, | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| polymerase (DNA directed), epsilon, catalytic subunit | NM_006231, ENS | Coding | TRUE |
| UBA domain containing 2 | NM_001144072, | Coding | TRUE |
| UBA domain containing 2 | NM_001144072, | Coding | TRUE |
| golgin A8 family, member D, pseudogene | NR_027407, ENS | Coding | TRUE |
| golgin A8 family, member D, pseudogene | NR_027407, ENS | Coding | TRUE |
| golgin A8 family, member D, pseudogene | NR_027407, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| EPM2A (laforin) interacting protein 1 | NM_014805, ENS | Coding | TRUE |
| versican | NM_001164098, | Coding | TRUE |
| versican | NM_001164098, | Coding | TRUE |
| versican | NM_001164098, | Coding | TRUE |
| versican | NM_001164098, | Coding | TRUE |
| versican | NM_001164098, | Coding | TRUE |
| collagen, type XXIII, alpha 1 | NM_173465, ENS | Coding | TRUE |
| collagen, type XXIII, alpha 1 | NM_173465, ENS | Coding | TRUE |
| collagen, type XXIII, alpha 1 | NM_173465, ENS | Coding | TRUE |
| collagen, type XXIII, alpha 1 | NM_173465, ENS | Coding | TRUE |
| collagen, type XXIII, alpha 1 | NM_173465, ENS | Coding | TRUE |
| STEAP family member 1B | NM_001164460, | Coding | TRUE |
| STEAP family member 1B | NM_001164460, | Coding | TRUE |
| STEAP family member 1B | NM_001164460, | Coding | TRUE |
| uncharacterized LOC100507299 | NR_039990 | Coding | TRUE |
| uncharacterized LOC100507299 | NR_039990 | Coding | TRUE |
| uncharacterized LOC100507299 | NR_039990 | Coding | TRUE |
| polymerase (DNA directed), alpha 2, accessory subunit | BC002990, ENST | Coding | TRUE |
| polymerase (DNA directed), alpha 2, accessory subunit | BC002990, ENST | Coding | TRUE |
| polymerase (DNA directed), alpha 2, accessory subunit | BC002990, ENST | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| signal peptide, CUB domain, EGF-like 2 | NM_001170690, | Coding | TRUE |
| farnesyltransferase, CAAX box, beta, CHURC1-FNTB | NM_002028, ENS | Coding | TRUE |
| farnesyltransferase, CAAX box, beta, CHURC1-FNTB | NM_002028, ENS | Coding | TRUE |
| farnesyltransferase, CAAX box, beta, CHURC1-FNTB | NM_002028, ENS | Coding | TRUE |
| farnesyltransferase, CAAX box, beta, CHURC1-FNTB | NM_002028, ENS | Coding | TRUE |
| platelet endothelial aggregation receptor 1 | NM_001080471, | Coding | TRUE |
| platelet endothelial aggregation receptor 1 | NM_001080471, | Coding | TRUE |
| platelet endothelial aggregation receptor 1 | NM_001080471, | Coding | TRUE |
| platelet endothelial aggregation receptor 1 | NM_001080471, | Coding | TRUE |
| tetratricopeptide repeat domain 4 | NM_004623, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 4 | NM_004623, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 4 | NM_004623, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 4 | NM_004623, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), member 1 | NM_005689, ENS | Coding | TRUE |
| nicotinamide nucleotide transhydrogenase | NM_012343, NM | Coding | TRUE |
| nicotinamide nucleotide transhydrogenase | NM_012343, NM | Coding | TRUE |
| nicotinamide nucleotide transhydrogenase | NM_012343, NM | Coding | TRUE |
| tenascin XB | NM_019105, NM | Coding | TRUE |
| tenascin XB | NM_019105, NM | Coding | TRUE |
| tenascin XB | NM_019105, NM | Coding | TRUE |
| tenascin XB | NM_019105, NM | Coding | TRUE |
| putative homeodomain transcription factor 2 | NM_001127357, | Coding | TRUE |
| putative homeodomain transcription factor 2 | NM_001127357, | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| putative homeodomain transcription factor 2 | NM_001127357, | Coding | TRUE |
| NFKB activating protein pseudogene 1 | NR_027131, ENS | Coding | TRUE |
| NFKB activating protein pseudogene 1 | NR_027131, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| mitogen-activated protein kinase 8 interacting protein | NM_005456, ENS | Coding | TRUE |
| suppression of tumorigenicity 5 | NM_005418, NM | Coding | TRUE |
| suppression of tumorigenicity 5 | NM_005418, NM | Coding | TRUE |
| suppression of tumorigenicity 5 | NM_005418, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| SH3 and multiple ankyrin repeat domains 2 | NM_012309, NM | Coding | TRUE |
| propionyl CoA carboxylase, alpha polypeptide | NM_000282, NM | Coding | TRUE |
| propionyl CoA carboxylase, alpha polypeptide | NM_000282, NM | Coding | TRUE |
| cytochrome P450, family 46, subfamily A, polypeptide | NM_006668, ENS | Coding | TRUE |
| cytochrome P450, family 46, subfamily A, polypeptide | NM_006668, ENS | Coding | TRUE |
| cytochrome P450, family 46, subfamily A, polypeptide | NM_006668, ENS | Coding | TRUE |
| KIAA0317 | NM_001039479, | Coding | TRUE |
| KIAA0317 | NM_001039479, | Coding | TRUE |
| KIAA0317 | NM_001039479, | Coding | TRUE |
| KIAA0317 | NM_001039479, | Coding | TRUE |
| KIAA0317 | NM_001039479, | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| cancer susceptibility candidate 5 | NM_144508, NM | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| coiled-coil domain containing 144C | NR_023380, ENS | Coding | TRUE |
| basigin (Ok blood group) | NM_001728, NM | Coding | TRUE |
| basigin (Ok blood group) | NM_001728, NM | Coding | TRUE |
| basigin (Ok blood group) | NM_001728, NM | Coding | TRUE |
| phosphodiesterase 4A, cAMP-specific | NM_001111307, N | Coding | TRUE |
| phosphodiesterase 4A, cAMP-specific | NM_001111307, N | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, U | NM_001195001, I | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, U | NM_001195001, I | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, U | NM_001195001, I | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, U | NM_001195001, I | Coding | TRUE |
| Rab geranylgeranyltransferase, beta subunit, small nu | NM_004582, NR | Coding | TRUE |
| Rab geranylgeranyltransferase, beta subunit, small nu | NM_004582, NR | Coding | TRUE |

| | | | |
|--|-----------------------|--------|------|
| chromosome 2 open reading frame 88 | NM_001042519, | Coding | TRUE |
| chromosome 2 open reading frame 88 | NM_001042519, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| diacylglycerol kinase, delta 130kDa | NM_003648, NM_003648, | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| EPH receptor A4 | NM_004438, ENS | Coding | TRUE |
| bobby sox homolog (Drosophila) | NM_001142568, | Coding | TRUE |
| bobby sox homolog (Drosophila) | NM_001142568, | Coding | TRUE |
| bobby sox homolog (Drosophila) | NM_001142568, | Coding | TRUE |
| bobby sox homolog (Drosophila) | NM_001142568, | Coding | TRUE |
| bobby sox homolog (Drosophila) | NM_001142568, | Coding | TRUE |
| chromosome 3 open reading frame 33 | NM_173657, ENS | Coding | TRUE |
| chromosome 3 open reading frame 33 | NM_173657, ENS | Coding | TRUE |
| chromosome 3 open reading frame 33 | NM_173657, ENS | Coding | TRUE |
| interferon regulatory factor 5 | NM_001098627, | Coding | TRUE |
| interferon regulatory factor 5 | NM_001098627, | Coding | TRUE |
| interferon regulatory factor 5 | NM_001098627, | Coding | TRUE |
| septin 14 | NM_207366, ENS | Coding | TRUE |
| septin 14 | NM_207366, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 2 | NM_016353, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 2 | NM_016353, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 2 | NM_016353, ENS | Coding | TRUE |
| mediator complex subunit 22 | NM_133640, NM_133640, | Coding | TRUE |
| mediator complex subunit 22 | NM_133640, NM_133640, | Coding | TRUE |
| serine/threonine protein kinase MST4 | NM_001042452, | Coding | TRUE |
| serine/threonine protein kinase MST4 | NM_001042452, | Coding | TRUE |
| serine/threonine protein kinase MST4 | NM_001042452, | Coding | TRUE |
| serine/threonine protein kinase MST4 | NM_001042452, | Coding | TRUE |
| serine/threonine protein kinase MST4 | NM_001042452, | Coding | TRUE |
| serine/threonine protein kinase MST4 | NM_001042452, | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| family with sequence similarity 66, member C | NR_026788, ENS | Coding | TRUE |
| nucleolar and spindle associated protein 1 | NM_001243143, | Coding | TRUE |
| nucleolar and spindle associated protein 1 | NM_001243143, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| ZNRD1 antisense RNA 1 (non-protein coding) | NR_026751 | Coding | TRUE |
| Treacher Collins-Franceschetti syndrome 1 | NM_000356, NM | Coding | TRUE |
| Treacher Collins-Franceschetti syndrome 1 | NM_000356, NM | Coding | TRUE |
| Treacher Collins-Franceschetti syndrome 1 | NM_000356, NM | Coding | TRUE |
| Treacher Collins-Franceschetti syndrome 1 | NM_000356, NM | Coding | TRUE |
| Treacher Collins-Franceschetti syndrome 1 | NM_000356, NM | Coding | TRUE |
| Treacher Collins-Franceschetti syndrome 1 | NM_000356, NM | Coding | TRUE |
| ATPase, Ca++ transporting, plasma membrane 4 | NM_001001396, | Coding | TRUE |
| ATPase, Ca++ transporting, plasma membrane 4 | NM_001001396, | Coding | TRUE |
| ATPase, Ca++ transporting, plasma membrane 4 | NM_001001396, | Coding | TRUE |
| ATPase, Ca++ transporting, plasma membrane 4 | NM_001001396, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| peptidylprolyl isomerase G (cyclophilin G) | NM_004792, BC1 | Coding | TRUE |
| peptidylprolyl isomerase G (cyclophilin G) | NM_004792, BC1 | Coding | TRUE |
| peptidylprolyl isomerase G (cyclophilin G) | NM_004792, BC1 | Coding | TRUE |
| peptidylprolyl isomerase G (cyclophilin G) | NM_004792, BC1 | Coding | TRUE |
| peptidylprolyl isomerase G (cyclophilin G) | NM_004792, BC1 | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| uncharacterized LOC100507487 | ENST000005114, | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 3 | NM_001142386, | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 3 | NM_001142386, | Coding | TRUE |
| transcription elongation factor A (SII)-like 7 | NM_152278, ENS | Coding | TRUE |
| transcription elongation factor A (SII)-like 7 | NM_152278, ENS | Coding | TRUE |
| myelin protein zero-like 3 | NM_198275, ENS | Coding | TRUE |
| myelin protein zero-like 3 | NM_198275, ENS | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| G protein-coupled receptor 133 | NM_198827, BC1 | Coding | TRUE |
| signal recognition particle 54kDa | NM_001146282, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| tenascin C | NM_002160, ENS | Coding | TRUE |
| adenylate kinase 8 | NM_152572, ENS | Coding | TRUE |
| adenylate kinase 8 | NM_152572, ENS | Coding | TRUE |
| adenylate kinase 8 | NM_152572, ENS | Coding | TRUE |
| 3-phosphoadenosine 5-phosphosulfate synthase 2 | NM_001015880, | Coding | TRUE |
| 3-phosphoadenosine 5-phosphosulfate synthase 2 | NM_001015880, | Coding | TRUE |
| Kazal-type serine peptidase inhibitor domain 1 | NM_030929, BCC | Coding | TRUE |
| Kazal-type serine peptidase inhibitor domain 1 | NM_030929, BCC | Coding | TRUE |
| stereocilin | NM_153700, ENS | Coding | TRUE |
| stereocilin | NM_153700, ENS | Coding | TRUE |
| stereocilin | NM_153700, ENS | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001055, NM | Coding | TRUE |
| chromosome 20 open reading frame 94 | NM_001009608, | Coding | TRUE |
| chromosome 20 open reading frame 94 | NM_001009608, | Coding | TRUE |
| chromosome 20 open reading frame 94 | NM_001009608, | Coding | TRUE |
| heat shock transcription factor 2 binding protein | NM_007031, ENS | Coding | TRUE |
| heat shock transcription factor 2 binding protein | NM_007031, ENS | Coding | TRUE |
| heat shock transcription factor 2 binding protein | NM_007031, ENS | Coding | TRUE |
| heat shock transcription factor 2 binding protein | NM_007031, ENS | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| smoothelin | NM_001207017, | Coding | TRUE |
| basic helix-loop-helix family, member e41 | NM_030762, ENS | Coding | TRUE |
| basic helix-loop-helix family, member e41 | NM_030762, ENS | Coding | TRUE |
| basic helix-loop-helix family, member e41 | NM_030762, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| transmembrane and coiled-coil domains 4 | NM_181719, ENS | Coding | TRUE |
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |
| unc-80 homolog (C. elegans) | NM_032504, NM | Coding | TRUE |
| N-acetyltransferase 6 (GCN5-related) | NM_001200016, | Coding | TRUE |
| N-acetyltransferase 6 (GCN5-related) | NM_001200016, | Coding | TRUE |
| N-acetyltransferase 6 (GCN5-related) | NM_001200016, | Coding | TRUE |
| N-acetyltransferase 6 (GCN5-related) | NM_001200016, | Coding | TRUE |
| cardiomyopathy associated 5 | NM_153610, ENS | Coding | TRUE |
| cardiomyopathy associated 5 | NM_153610, ENS | Coding | TRUE |
| cardiomyopathy associated 5 | NM_153610, ENS | Coding | TRUE |
| cardiomyopathy associated 5 | NM_153610, ENS | Coding | TRUE |
| mitogen-activated protein kinase 13 | NM_002754, ENS | Coding | TRUE |
| mitogen-activated protein kinase 13 | NM_002754, ENS | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| vacuolar protein sorting 41 homolog (S. cerevisiae) | NM_014396, NM | Coding | TRUE |
| homeobox containing 1 | NM_001135726, | Coding | TRUE |
| homeobox containing 1 | NM_001135726, | Coding | TRUE |
| homeobox containing 1 | NM_001135726, | Coding | TRUE |
| homeobox containing 1 | NM_001135726, | Coding | TRUE |
| microRNA 1204, Pvt1 oncogene (non-protein coding) | NR_031609, NR | Coding | TRUE |
| microRNA 1204, Pvt1 oncogene (non-protein coding) | NR_031609, NR | Coding | TRUE |
| microRNA 1204, Pvt1 oncogene (non-protein coding) | NR_031609, NR | Coding | TRUE |
| microRNA 1204, Pvt1 oncogene (non-protein coding) | NR_031609, NR | Coding | TRUE |
| triple QxxK/R motif containing | NM_001171795, | Coding | TRUE |
| triple QxxK/R motif containing | NM_001171795, | Coding | TRUE |
| triple QxxK/R motif containing | NM_001171795, | Coding | TRUE |
| triple QxxK/R motif containing | NM_001171795, | Coding | TRUE |
| triple QxxK/R motif containing | NM_001171795, | Coding | TRUE |
| Friend leukemia virus integration 1 | NM_001167681, | Coding | TRUE |
| Friend leukemia virus integration 1 | NM_001167681, | Coding | TRUE |
| Friend leukemia virus integration 1 | NM_001167681, | Coding | TRUE |
| Friend leukemia virus integration 1 | NM_001167681, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 ps | ENST000005584 | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 ps | ENST000005584 | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 ps | ENST000005584 | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 ps | ENST000005584 | Coding | TRUE |
| Src homology 2 domain containing F | NM_138356, ENS | Coding | TRUE |
| Src homology 2 domain containing F | NM_138356, ENS | Coding | TRUE |
| Src homology 2 domain containing F | NM_138356, ENS | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_006162, NM | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_006162, NM | Coding | TRUE |
| nuclear factor of activated T-cells, cytoplasmic, calcine | NM_006162, NM | Coding | TRUE |
| kallikrein-related peptidase 4 | NM_004917, ENS | Coding | TRUE |
| kallikrein-related peptidase 4 | NM_004917, ENS | Coding | TRUE |
| kallikrein-related peptidase 4 | NM_004917, ENS | Coding | TRUE |
| kallikrein-related peptidase 4 | NM_004917, ENS | Coding | TRUE |
| kallikrein-related peptidase 4 | NM_004917, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_006988, BCC | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_006988, BCC | Coding | TRUE |
| amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransfer | NM_000028, NM | Coding | TRUE |
| amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransfer | NM_000028, NM | Coding | TRUE |

| | | | |
|--|----------------------|--------|------|
| angiotensinogen (serpin peptidase inhibitor, clade A, m | NM_000029, ENS | Coding | TRUE |
| angiotensinogen (serpin peptidase inhibitor, clade A, m | NM_000029, ENS | Coding | TRUE |
| angiotensinogen (serpin peptidase inhibitor, clade A, m | NM_000029, ENS | Coding | TRUE |
| N-acetylglucosamine kinase | NM_017567, ENS | Coding | TRUE |
| N-acetylglucosamine kinase | NM_017567, ENS | Coding | TRUE |
| N-acetylglucosamine kinase | NM_017567, ENS | Coding | TRUE |
| N-acetylglucosamine kinase | NM_017567, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| phospholipase C, delta 4 | NM_032726, ENS | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| EGF containing fibulin-like extracellular matrix protein | NM_001039348, Coding | Coding | TRUE |
| tumor protein p63 | NM_003722, NM | Coding | TRUE |
| tumor protein p63 | NM_003722, NM | Coding | TRUE |
| tumor protein p63 | NM_003722, NM | Coding | TRUE |
| tumor protein p63 | NM_003722, NM | Coding | TRUE |
| tumor protein p63 | NM_003722, NM | Coding | TRUE |
| toll-like receptor 3 | NM_003265, ENS | Coding | TRUE |
| toll-like receptor 3 | NM_003265, ENS | Coding | TRUE |
| toll-like receptor 3 | NM_003265, ENS | Coding | TRUE |
| coiled-coil domain containing 110 | NM_001145411, Coding | Coding | TRUE |
| coiled-coil domain containing 110 | NM_001145411, Coding | Coding | TRUE |
| coiled-coil domain containing 110 | NM_001145411, Coding | Coding | TRUE |
| mitochondrial ribosomal protein S36 | NM_033281, ENS | Coding | TRUE |
| mitochondrial ribosomal protein S36 | NM_033281, ENS | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM | Coding | TRUE |
| 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysop | NM_006411, NM | Coding | TRUE |
| cyclin-dependent kinase 19 | NM_015076, ENS | Coding | TRUE |
| cyclin-dependent kinase 19 | NM_015076, ENS | Coding | TRUE |
| cyclin-dependent kinase 19 | NM_015076, ENS | Coding | TRUE |
| cyclin-dependent kinase 19 | NM_015076, ENS | Coding | TRUE |
| cyclin-dependent kinase 19 | NM_015076, ENS | Coding | TRUE |
| PHD finger protein 14 | NM_014660, NR | Coding | TRUE |
| PHD finger protein 14 | NM_014660, NR | Coding | TRUE |
| PHD finger protein 14 | NM_014660, NR | Coding | TRUE |
| copine III | NM_003909, ENS | Coding | TRUE |
| copine III | NM_003909, ENS | Coding | TRUE |
| copine III | NM_003909, ENS | Coding | TRUE |
| copine III | NM_003909, ENS | Coding | TRUE |
| tyrosine 3-monooxygenase/tryptophan 5-monooxygen | NM_001135699, Coding | Coding | TRUE |
| tyrosine 3-monooxygenase/tryptophan 5-monooxygen | NM_001135699, Coding | Coding | TRUE |
| tyrosine 3-monooxygenase/tryptophan 5-monooxygen | NM_001135699, Coding | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| variable charge, X-linked 3B, variable charge, X-linked | NM_001001888, | Coding | TRUE |
| variable charge, X-linked 3B, variable charge, X-linked | NM_001001888, | Coding | TRUE |
| NDUFC2-KCTD14 readthrough, NADH dehydrogenas | NM_001203260, | Coding | TRUE |
| NDUFC2-KCTD14 readthrough, NADH dehydrogenas | NM_001203260, | Coding | TRUE |
| NDUFC2-KCTD14 readthrough, NADH dehydrogenas | NM_001203260, | Coding | TRUE |
| NDUFC2-KCTD14 readthrough, NADH dehydrogenas | NM_001203260, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| basic, immunoglobulin-like variable motif containing | NM_001159596, | Coding | TRUE |
| basic, immunoglobulin-like variable motif containing | NM_001159596, | Coding | TRUE |
| basic, immunoglobulin-like variable motif containing | NM_001159596, | Coding | TRUE |
| basic, immunoglobulin-like variable motif containing | NM_001159596, | Coding | TRUE |
| basic, immunoglobulin-like variable motif containing | NM_001159596, | Coding | TRUE |
| adaptor-related protein complex 1, gamma 2 subunit | NM_003917, ENS | Coding | TRUE |
| adaptor-related protein complex 1, gamma 2 subunit | NM_003917, ENS | Coding | TRUE |
| adaptor-related protein complex 1, gamma 2 subunit | NM_003917, ENS | Coding | TRUE |
| adaptor-related protein complex 1, gamma 2 subunit | NM_003917, ENS | Coding | TRUE |
| adaptor-related protein complex 1, gamma 2 subunit | NM_003917, ENS | Coding | TRUE |
| adaptor-related protein complex 1, gamma 2 subunit | NM_003917, ENS | Coding | TRUE |
| formin 1, formin-1-like | NM_001103184, | Coding | TRUE |
| formin 1, formin-1-like | NM_001103184, | Coding | TRUE |
| formin 1, formin-1-like | NM_001103184, | Coding | TRUE |
| formin 1, formin-1-like | NM_001103184, | Coding | TRUE |
| formin 1, formin-1-like | NM_001103184, | Coding | TRUE |
| formin 1, formin-1-like | NM_001103184, | Coding | TRUE |
| corticotropin releasing hormone receptor 1 | NM_001145146, | Coding | TRUE |
| corticotropin releasing hormone receptor 1 | NM_001145146, | Coding | TRUE |
| corticotropin releasing hormone receptor 1 | NM_001145146, | Coding | TRUE |
| prostaglandin F2 receptor negative regulator | NM_020440, ENS | Coding | TRUE |
| prostaglandin F2 receptor negative regulator | NM_020440, ENS | Coding | TRUE |
| prostaglandin F2 receptor negative regulator | NM_020440, ENS | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| neuron navigator 1 | NM_001167738, | Coding | TRUE |
| melanoma inhibitory activity family, member 3 | NM_198551, ENS | Coding | TRUE |
| melanoma inhibitory activity family, member 3 | NM_198551, ENS | Coding | TRUE |
| melanoma inhibitory activity family, member 3 | NM_198551, ENS | Coding | TRUE |
| zinc finger and BTB domain containing 8 opposite stra | NM_178547, ENS | Coding | TRUE |
| zinc finger and BTB domain containing 8 opposite stra | NM_178547, ENS | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| thrombospondin 3 | NM_001252607, | Coding | TRUE |
| histamine N-methyltransferase | NM_001024074, | Coding | TRUE |

| | | | |
|---|----------------------|--------|------|
| microRNA 145, microRNA 143, MIR143 host gene (no | NR_029686, NR | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| dystonin, dystonin-like | NM_001723, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| patched 1 | NM_000264, NM | Coding | TRUE |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| TSC22 domain family, member 3 | NM_001015881, Coding | TRUE | |
| gamma-aminobutyric acid (GABA) A receptor, epsilon, | NM_004961, NR | Coding | TRUE |
| gamma-aminobutyric acid (GABA) A receptor, epsilon, | NM_004961, NR | Coding | TRUE |
| gamma-aminobutyric acid (GABA) A receptor, epsilon, | NM_004961, NR | Coding | TRUE |
| gamma-aminobutyric acid (GABA) A receptor, epsilon, | NM_004961, NR | Coding | TRUE |
| N(alpha)-acetyltransferase 10, NatA catalytic subunit | NM_001256119, Coding | TRUE | |
| N(alpha)-acetyltransferase 10, NatA catalytic subunit | NM_001256119, Coding | TRUE | |
| N(alpha)-acetyltransferase 10, NatA catalytic subunit | NM_001256119, Coding | TRUE | |
| cell division cycle associated 5 | NM_080668, ENS | Coding | TRUE |
| cell division cycle associated 5 | NM_080668, ENS | Coding | TRUE |
| zinc finger protein 641 | NM_001172681, Coding | TRUE | |
| zinc finger protein 641 | NM_001172681, Coding | TRUE | |
| POC1 centriolar protein homolog B (Chlamydomonas) | NM_001199777, Coding | TRUE | |
| POC1 centriolar protein homolog B (Chlamydomonas) | NM_001199777, Coding | TRUE | |
| POC1 centriolar protein homolog B (Chlamydomonas) | NM_001199777, Coding | TRUE | |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| Ras and Rab interactor 3 | NM_024832, ENS | Coding | TRUE |
| epsin 2 | NM_148921, NM | Coding | TRUE |
| epsin 2 | NM_148921, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| epsin 2 | NM_148921, NM | Coding | TRUE |
| leucine rich repeat containing 37B pseudogene 1 | NR_015341, ENS | Coding | TRUE |
| leucine rich repeat containing 37B pseudogene 1 | NR_015341, ENS | Coding | TRUE |
| leucine rich repeat containing 37B pseudogene 1 | NR_015341, ENS | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| FXRD domain containing ion transport regulator 1 | NM_005031, NM | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 | NM_017895, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 | NM_017895, ENS | Coding | TRUE |
| tRNA methyltransferase 6 homolog (S. cerevisiae) | NM_015939, ENS | Coding | TRUE |
| tRNA methyltransferase 6 homolog (S. cerevisiae) | NM_015939, ENS | Coding | TRUE |
| TBC1 domain family, member 26 | NM_178571, ENS | Coding | TRUE |
| TBC1 domain family, member 26 | NM_178571, ENS | Coding | TRUE |
| TBC1 domain family, member 26 | NM_178571, ENS | Coding | TRUE |
| chromosome 1 open reading frame 101 | NM_001130957, | Coding | TRUE |
| chromosome 1 open reading frame 101 | NM_001130957, | Coding | TRUE |
| chromosome 1 open reading frame 101 | NM_001130957, | Coding | TRUE |
| ERBB receptor feedback inhibitor 1 | NM_018948, ENS | Coding | TRUE |
| ERBB receptor feedback inhibitor 1 | NM_018948, ENS | Coding | TRUE |
| ERBB receptor feedback inhibitor 1 | NM_018948, ENS | Coding | TRUE |
| ERBB receptor feedback inhibitor 1 | NM_018948, ENS | Coding | TRUE |
| cullin-associated and neddylation-dissociated 2 (putati | NM_001162499, | Coding | TRUE |
| cullin-associated and neddylation-dissociated 2 (putati | NM_001162499, | Coding | TRUE |
| cullin-associated and neddylation-dissociated 2 (putati | NM_001162499, | Coding | TRUE |
| cullin-associated and neddylation-dissociated 2 (putati | NM_001162499, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| fibulin 2 | NM_001004019, | Coding | TRUE |
| kelch-like 24 (Drosophila) | NM_017644, ENS | Coding | TRUE |
| kelch-like 24 (Drosophila) | NM_017644, ENS | Coding | TRUE |
| kelch-like 24 (Drosophila) | NM_017644, ENS | Coding | TRUE |
| chemokine (C-C motif) ligand 28 | NM_148672, ENS | Coding | TRUE |
| chemokine (C-C motif) ligand 28 | NM_148672, ENS | Coding | TRUE |
| family with sequence similarity 13, member B | NM_001101800, | Coding | TRUE |
| family with sequence similarity 13, member B | NM_001101800, | Coding | TRUE |
| family with sequence similarity 13, member B | NM_001101800, | Coding | TRUE |
| family with sequence similarity 13, member B | NM_001101800, | Coding | TRUE |
| family with sequence similarity 13, member B | NM_001101800, | Coding | TRUE |
| family with sequence similarity 13, member B | NM_001101800, | Coding | TRUE |
| transmembrane protein 173 | NM_198282, ENS | Coding | TRUE |
| transmembrane protein 173 | NM_198282, ENS | Coding | TRUE |
| membrane protein, palmitoylated 6 (MAGUK p55 subf | NM_016447, ENS | Coding | TRUE |
| membrane protein, palmitoylated 6 (MAGUK p55 subf | NM_016447, ENS | Coding | TRUE |
| membrane protein, palmitoylated 6 (MAGUK p55 subf | NM_016447, ENS | Coding | TRUE |
| membrane protein, palmitoylated 6 (MAGUK p55 subf | NM_016447, ENS | Coding | TRUE |
| derlin 1 | NM_001134671, | Coding | TRUE |
| derlin 1 | NM_001134671, | Coding | TRUE |
| derlin 1 | NM_001134671, | Coding | TRUE |
| idnK, gluconokinase homolog (E. coli), chromosome 9 | NM_001001551, | Coding | TRUE |
| idnK, gluconokinase homolog (E. coli), chromosome 9 | NM_001001551, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| homeobox C4, homeobox C6, homeobox C5 | NM_014620, NM | Coding | TRUE |
| homeobox C4, homeobox C6, homeobox C5 | NM_014620, NM | Coding | TRUE |
| homeobox C4, homeobox C6, homeobox C5 | NM_014620, NM | Coding | TRUE |
| homeobox C4, homeobox C6, homeobox C5 | NM_014620, NM | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| MOK protein kinase | NM_014226, ENS | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| A kinase (PRKA) anchor protein 13 | NM_144767, NM | Coding | TRUE |
| chromodomain helicase DNA binding protein 3 | NM_001005271, | Coding | TRUE |
| chromodomain helicase DNA binding protein 3 | NM_001005271, | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box helicase 17 | NM_001098504, | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box helicase 17 | NM_001098504, | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box helicase 17 | NM_001098504, | Coding | TRUE |
| SPC25, NDC80 kinetochore complex component, hom | NM_020675, ENS | Coding | TRUE |
| SPC25, NDC80 kinetochore complex component, hom | NM_020675, ENS | Coding | TRUE |
| SPC25, NDC80 kinetochore complex component, hom | NM_020675, ENS | Coding | TRUE |
| NIPA-like domain containing 3 | NM_020448, BCC | Coding | TRUE |
| NIPA-like domain containing 3 | NM_020448, BCC | Coding | TRUE |
| NIPA-like domain containing 3 | NM_020448, BCC | Coding | TRUE |
| cell division cycle associated 8 | NM_018101, ENS | Coding | TRUE |
| cell division cycle associated 8 | NM_018101, ENS | Coding | TRUE |
| Mdm4 p53 binding protein homolog (mouse) | NM_001204171, | Coding | TRUE |
| Mdm4 p53 binding protein homolog (mouse) | NM_001204171, | Coding | TRUE |
| Mdm4 p53 binding protein homolog (mouse) | NM_001204171, | Coding | TRUE |
| Mdm4 p53 binding protein homolog (mouse) | NM_001204171, | Coding | TRUE |
| Mdm4 p53 binding protein homolog (mouse) | NM_001204171, | Coding | TRUE |
| lysocardiolipin acyltransferase 1 | NM_182551, NM | Coding | TRUE |
| lysocardiolipin acyltransferase 1 | NM_182551, NM | Coding | TRUE |
| lysocardiolipin acyltransferase 1 | NM_182551, NM | Coding | TRUE |
| threonine synthase-like 2 (S. cerevisiae) | NM_001244676, | Coding | TRUE |
| threonine synthase-like 2 (S. cerevisiae) | NM_001244676, | Coding | TRUE |
| threonine synthase-like 2 (S. cerevisiae) | NM_001244676, | Coding | TRUE |
| threonine synthase-like 2 (S. cerevisiae) | NM_001244676, | Coding | TRUE |
| threonine synthase-like 2 (S. cerevisiae) | NM_001244676, | Coding | TRUE |
| threonine synthase-like 2 (S. cerevisiae) | NM_001244676, | Coding | TRUE |
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |
| islet cell autoantigen 1,69kDa-like | NM_138468, NM | Coding | TRUE |
| Rho GTPase activating protein 24 | NM_001025616, | Coding | TRUE |
| Rho GTPase activating protein 24 | NM_001025616, | Coding | TRUE |
| Rho GTPase activating protein 24 | NM_001025616, | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_017423, ENS | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_017423, ENS | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_017423, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| solute carrier family 12 (sodium/potassium/chloride tra | NM_001046, ENS | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| dynein, cytoplasmic 1, intermediate chain 1 | NM_001135556, | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 5 | NM_012294, ENS | Coding | TRUE |
| KIAA1429 | NM_015496, NM | Coding | TRUE |
| KIAA1429 | NM_015496, NM | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| structural maintenance of chromosomes 2 | NM_001042550, | Coding | TRUE |
| tRNA methyltransferase 2 homolog B (S. cerevisiae) | NM_001167970, | Coding | TRUE |
| tRNA methyltransferase 2 homolog B (S. cerevisiae) | NM_001167970, | Coding | TRUE |
| tRNA methyltransferase 2 homolog B (S. cerevisiae) | NM_001167970, | Coding | TRUE |
| anthrax toxin receptor-like | NR_003601, ENS | Coding | TRUE |
| anthrax toxin receptor-like | NR_003601, ENS | Coding | TRUE |
| vesicle transport through interaction with t-SNAREs ho | NM_145206, ENS | Coding | TRUE |
| vesicle transport through interaction with t-SNAREs ho | NM_145206, ENS | Coding | TRUE |
| vesicle transport through interaction with t-SNAREs ho | NM_145206, ENS | Coding | TRUE |
| tolloid-like 2 | NM_012465, ENS | Coding | TRUE |
| tolloid-like 2 | NM_012465, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| tolloid-like 2 | NM_012465, ENS | Coding | TRUE |
| tolloid-like 2 | NM_012465, ENS | Coding | TRUE |
| RERG antisense RNA 1 (non-protein coding) | ENST000005412 | Coding | TRUE |
| RERG antisense RNA 1 (non-protein coding) | ENST000005412 | Coding | TRUE |
| RAS-like, estrogen-regulated, growth inhibitor | NM_001190726, | Coding | TRUE |
| RAS-like, estrogen-regulated, growth inhibitor | NM_001190726, | Coding | TRUE |
| kinesin family member 21A | NM_001173463, | Coding | TRUE |
| kinesin family member 21A | NM_001173463, | Coding | TRUE |
| kinesin family member 21A | NM_001173463, | Coding | TRUE |
| kinesin family member 21A | NM_001173463, | Coding | TRUE |
| kinesin family member 21A | NM_001173463, | Coding | TRUE |
| kinesin family member 21A | NM_001173463, | Coding | TRUE |
| carboxylesterase 4A | NM_001190201, | Coding | TRUE |
| carboxylesterase 4A | NM_001190201, | Coding | TRUE |
| carboxylesterase 4A | NM_001190201, | Coding | TRUE |
| protease, serine, 53 | NM_001039503, | Coding | TRUE |
| protease, serine, 53 | NM_001039503, | Coding | TRUE |
| protease, serine, 53 | NM_001039503, | Coding | TRUE |
| signal transducer and activator of transcription 5B | NM_012448, ENS | Coding | TRUE |
| signal transducer and activator of transcription 5B | NM_012448, ENS | Coding | TRUE |
| signal transducer and activator of transcription 5B | NM_012448, ENS | Coding | TRUE |
| signal transducer and activator of transcription 5B | NM_012448, ENS | Coding | TRUE |
| signal transducer and activator of transcription 5B | NM_012448, ENS | Coding | TRUE |
| sterile alpha motif domain containing 14 | NM_174920, ENS | Coding | TRUE |
| sterile alpha motif domain containing 14 | NM_174920, ENS | Coding | TRUE |
| sterile alpha motif domain containing 14 | NM_174920, ENS | Coding | TRUE |
| sterile alpha motif domain containing 14 | NM_174920, ENS | Coding | TRUE |
| sterile alpha motif domain containing 14 | NM_174920, ENS | Coding | TRUE |
| sterile alpha motif domain containing 14 | NM_174920, ENS | Coding | TRUE |
| notum pectinacetylerase homolog (Drosophila) | NM_178493, ENS | Coding | TRUE |
| notum pectinacetylerase homolog (Drosophila) | NM_178493, ENS | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, A | NM_080840, NM | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, A | NM_080840, NM | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, A | NM_080840, NM | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, A | NM_080840, NM | Coding | TRUE |
| mutS homolog 6 (E. coli) | NM_000179, ENS | Coding | TRUE |
| mutS homolog 6 (E. coli) | NM_000179, ENS | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 4 | NM_014602, ENS | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 4 | NM_014602, ENS | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 4 | NM_014602, ENS | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 4 | NM_014602, ENS | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| Wolf-Hirschhorn syndrome candidate 1 | NM_133331, NM | Coding | TRUE |
| ubiquitin-conjugating enzyme E2B | NM_003337, ENS | Coding | TRUE |
| ubiquitin-conjugating enzyme E2B | NM_003337, ENS | Coding | TRUE |
| collagen, type IV, alpha 3 (Goodpasture antigen) bindin | NM_001130105, | Coding | TRUE |
| collagen, type IV, alpha 3 (Goodpasture antigen) bindin | NM_001130105, | Coding | TRUE |
| collagen, type IV, alpha 3 (Goodpasture antigen) bindin | NM_001130105, | Coding | TRUE |
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |
| platelet-derived growth factor alpha polypeptide | NM_002607, NM | Coding | TRUE |
| Sec61 alpha 2 subunit (S. cerevisiae) | NM_001142628, | Coding | TRUE |
| Sec61 alpha 2 subunit (S. cerevisiae) | NM_001142628, | Coding | TRUE |
| Sec61 alpha 2 subunit (S. cerevisiae) | NM_001142628, | Coding | TRUE |
| Sec61 alpha 2 subunit (S. cerevisiae) | NM_001142628, | Coding | TRUE |
| membrane protein, palmitoylated 7 (MAGUK p55 subf | NM_173496, ENS | Coding | TRUE |
| membrane protein, palmitoylated 7 (MAGUK p55 subf | NM_173496, ENS | Coding | TRUE |
| membrane protein, palmitoylated 7 (MAGUK p55 subf | NM_173496, ENS | Coding | TRUE |
| cytoplasmic polyadenylation element binding protein 3 | NM_001178137, | Coding | TRUE |
| cytoplasmic polyadenylation element binding protein 3 | NM_001178137, | Coding | TRUE |
| cytoplasmic polyadenylation element binding protein 3 | NM_001178137, | Coding | TRUE |
| cytoplasmic polyadenylation element binding protein 3 | NM_001178137, | Coding | TRUE |
| cytoplasmic polyadenylation element binding protein 3 | NM_001178137, | Coding | TRUE |
| cytoplasmic polyadenylation element binding protein 3 | NM_001178137, | Coding | TRUE |
| cytochrome P450, family 2, subfamily C, polypeptide 8 | NM_000770, NM | Coding | TRUE |
| cytochrome P450, family 2, subfamily C, polypeptide 8 | NM_000770, NM | Coding | TRUE |
| cytochrome P450, family 2, subfamily C, polypeptide 8 | NM_000770, NM | Coding | TRUE |
| cytochrome P450, family 2, subfamily C, polypeptide 8 | NM_000770, NM | Coding | TRUE |
| autophagy related 13 | NM_001142673, | Coding | TRUE |
| autophagy related 13 | NM_001142673, | Coding | TRUE |
| autophagy related 13 | NM_001142673, | Coding | TRUE |
| matrix metalloproteinase 7 (matrilysin, uterine) | NM_002423, ENS | Coding | TRUE |
| matrix metalloproteinase 7 (matrilysin, uterine) | NM_002423, ENS | Coding | TRUE |
| matrix metalloproteinase 7 (matrilysin, uterine) | NM_002423, ENS | Coding | TRUE |
| matrix metalloproteinase 7 (matrilysin, uterine) | NM_002423, ENS | Coding | TRUE |
| matrix metalloproteinase 7 (matrilysin, uterine) | NM_002423, ENS | Coding | TRUE |
| ring finger protein 219 | NM_024546, ENS | Coding | TRUE |
| ring finger protein 219 | NM_024546, ENS | Coding | TRUE |
| ring finger protein 219 | NM_024546, ENS | Coding | TRUE |
| tropomodulin 2 (neuronal) | NM_001142885, | Coding | TRUE |
| tropomodulin 2 (neuronal) | NM_001142885, | Coding | TRUE |
| uncharacterized LOC388152 | NR_027001, ENS | Coding | TRUE |
| uncharacterized LOC388152 | NR_027001, ENS | Coding | TRUE |
| uncharacterized LOC388152 | NR_027001, ENS | Coding | TRUE |
| uncharacterized LOC388152 | NR_027001, ENS | Coding | TRUE |
| uncharacterized LOC388152 | NR_027001, ENS | Coding | TRUE |
| chemokine (C-X3-C motif) ligand 1 | NM_002996, ENS | Coding | TRUE |
| chemokine (C-X3-C motif) ligand 1 | NM_002996, ENS | Coding | TRUE |
| adaptor-related protein complex 1, gamma 1 subunit | NM_001030007, | Coding | TRUE |
| adaptor-related protein complex 1, gamma 1 subunit | NM_001030007, | Coding | TRUE |
| C1q and tumor necrosis factor related protein 1 | NM_198593, NM | Coding | TRUE |
| C1q and tumor necrosis factor related protein 1 | NM_198593, NM | Coding | TRUE |
| C1q and tumor necrosis factor related protein 1 | NM_198593, NM | Coding | TRUE |
| C1q and tumor necrosis factor related protein 1 | NM_198593, NM | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| myosin VB | NM_001080467, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| Mov10, Moloney leukemia virus 10, homolog (mouse) | NM_001130079, | Coding | TRUE |
| small nucleolar RNA, H/ACA box 61, small nucleolar R | NR_002987, NR_ | Coding | TRUE |
| small nucleolar RNA, H/ACA box 61, small nucleolar R | NR_002987, NR_ | Coding | TRUE |
| small nucleolar RNA, H/ACA box 61, small nucleolar R | NR_002987, NR_ | Coding | TRUE |
| small nucleolar RNA, H/ACA box 61, small nucleolar R | NR_002987, NR_ | Coding | TRUE |
| small nucleolar RNA, H/ACA box 61, small nucleolar R | NR_002987, NR_ | Coding | TRUE |
| small nucleolar RNA, H/ACA box 61, small nucleolar R | NR_002987, NR_ | Coding | TRUE |
| MAP kinase interacting serine/threonine kinase 1 | NM_001135553, | Coding | TRUE |
| MAP kinase interacting serine/threonine kinase 1 | NM_001135553, | Coding | TRUE |
| MAP kinase interacting serine/threonine kinase 1 | NM_001135553, | Coding | TRUE |
| MAP kinase interacting serine/threonine kinase 1 | NM_001135553, | Coding | TRUE |
| MAP kinase interacting serine/threonine kinase 1 | NM_001135553, | Coding | TRUE |
| eukaryotic translation initiation factor 2B, subunit 4 del | NM_001034116, | Coding | TRUE |
| eukaryotic translation initiation factor 2B, subunit 4 del | NM_001034116, | Coding | TRUE |
| eukaryotic translation initiation factor 2B, subunit 4 del | NM_001034116, | Coding | TRUE |
| eukaryotic translation initiation factor 2B, subunit 4 del | NM_001034116, | Coding | TRUE |
| fibroblast growth factor receptor 3 | NM_001163213, | Coding | TRUE |
| fibroblast growth factor receptor 3 | NM_001163213, | Coding | TRUE |
| cyclin D3 | NM_001136017, | Coding | TRUE |
| cyclin D3 | NM_001136017, | Coding | TRUE |
| cyclin D3 | NM_001136017, | Coding | TRUE |
| cyclin D3 | NM_001136017, | Coding | TRUE |
| cyclin D3 | NM_001136017, | Coding | TRUE |
| cyclin D3 | NM_001136017, | Coding | TRUE |
| uncharacterized LOC285878, V-set and transmembran | NR_038994, NM_ | Coding | TRUE |
| uncharacterized LOC285878, V-set and transmembran | NR_038994, NM_ | Coding | TRUE |
| uncharacterized LOC285878, V-set and transmembran | NR_038994, NM_ | Coding | TRUE |
| uncharacterized LOC285878, V-set and transmembran | NR_038994, NM_ | Coding | TRUE |
| leucine-rich repeat LGI family, member 3 | NM_139278, ENS | Coding | TRUE |
| leucine-rich repeat LGI family, member 3 | NM_139278, ENS | Coding | TRUE |
| leucine-rich repeat LGI family, member 3 | NM_139278, ENS | Coding | TRUE |
| phosphoprotein associated with glycosphingolipid micr | NM_018440, ENS | Coding | TRUE |
| phosphoprotein associated with glycosphingolipid micr | NM_018440, ENS | Coding | TRUE |
| centriolin | NM_007018, ENS | Coding | TRUE |
| centriolin | NM_007018, ENS | Coding | TRUE |
| centriolin | NM_007018, ENS | Coding | TRUE |
| centriolin | NM_007018, ENS | Coding | TRUE |
| centriolin | NM_007018, ENS | Coding | TRUE |
| TNF receptor-associated factor 1 | NM_001190945, | Coding | TRUE |
| TNF receptor-associated factor 1 | NM_001190945, | Coding | TRUE |
| three prime repair exonuclease 2, HAUS augmin-like c | NM_080701, NM_ | Coding | TRUE |
| three prime repair exonuclease 2, HAUS augmin-like c | NM_080701, NM_ | Coding | TRUE |
| three prime repair exonuclease 2, HAUS augmin-like c | NM_080701, NM_ | Coding | TRUE |
| three prime repair exonuclease 2, HAUS augmin-like c | NM_080701, NM_ | Coding | TRUE |
| three prime repair exonuclease 2, HAUS augmin-like c | NM_080701, NM_ | Coding | TRUE |
| three prime repair exonuclease 2, HAUS augmin-like c | NM_080701, NM_ | Coding | TRUE |
| phosphatase and tensin homolog | NM_000314, ENS | Coding | TRUE |
| phosphatase and tensin homolog | NM_000314, ENS | Coding | TRUE |
| embryonic ectoderm development | NM_003797, NM_ | Coding | TRUE |
| embryonic ectoderm development | NM_003797, NM_ | Coding | TRUE |
| embryonic ectoderm development | NM_003797, NM_ | Coding | TRUE |
| nuclear receptor corepressor 2 | NM_001077261, | Coding | TRUE |
| nuclear receptor corepressor 2 | NM_001077261, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| nuclear receptor corepressor 2 | NM_001077261, | Coding | TRUE |
| beta 1,3-galactosyltransferase-like | NM_194318, ENS | Coding | TRUE |
| beta 1,3-galactosyltransferase-like | NM_194318, ENS | Coding | TRUE |
| beta 1,3-galactosyltransferase-like | NM_194318, ENS | Coding | TRUE |
| lectin, galactoside-binding, soluble, 3 | NM_001177388, | Coding | TRUE |
| lectin, galactoside-binding, soluble, 3 | NM_001177388, | Coding | TRUE |
| lectin, galactoside-binding, soluble, 3 | NM_001177388, | Coding | TRUE |
| salvador homolog 1 (Drosophila) | NM_021818, ENS | Coding | TRUE |
| salvador homolog 1 (Drosophila) | NM_021818, ENS | Coding | TRUE |
| salvador homolog 1 (Drosophila) | NM_021818, ENS | Coding | TRUE |
| salvador homolog 1 (Drosophila) | NM_021818, ENS | Coding | TRUE |
| salvador homolog 1 (Drosophila) | NM_021818, ENS | Coding | TRUE |
| salvador homolog 1 (Drosophila) | NM_021818, ENS | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| interleukin 16, interleukin 16 (lymphocyte chemoattractant) | NM_001172128, | Coding | TRUE |
| microRNA 484, nudE nuclear distribution E homolog 1 | NR_030159, NM | Coding | TRUE |
| microRNA 484, nudE nuclear distribution E homolog 1 | NR_030159, NM | Coding | TRUE |
| microRNA 484, nudE nuclear distribution E homolog 1 | NR_030159, NM | Coding | TRUE |
| solute carrier family 9, subfamily A (NHE9, cation proton symporter) | NM_173653, ENS | Coding | TRUE |
| solute carrier family 9, subfamily A (NHE9, cation proton symporter) | NM_173653, ENS | Coding | TRUE |
| vacuolar protein sorting 37 homolog A (S. cerevisiae) | NM_001145152, | Coding | TRUE |
| vacuolar protein sorting 37 homolog A (S. cerevisiae) | NM_001145152, | Coding | TRUE |
| vacuolar protein sorting 37 homolog A (S. cerevisiae) | NM_001145152, | Coding | TRUE |
| axonemal dynein light chain domain containing 1 | NM_144696, ENS | Coding | TRUE |
| axonemal dynein light chain domain containing 1 | NM_144696, ENS | Coding | TRUE |
| axonemal dynein light chain domain containing 1 | NM_144696, ENS | Coding | TRUE |
| axonemal dynein light chain domain containing 1 | NM_144696, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| F-box protein 2 | NM_012168, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| potassium channel, subfamily T, member 2 | NM_198503, ENS | Coding | TRUE |
| | | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| supervillin | NM_003174, NM | Coding | TRUE |
| zinc finger protein 480 | NM_144684, ENS | Coding | TRUE |
| zinc finger protein 480 | NM_144684, ENS | Coding | TRUE |
| zinc finger protein 480 | NM_144684, ENS | Coding | TRUE |
| zinc finger protein 480 | NM_144684, ENS | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| egf-like module containing, mucin-like, hormone recep | NM_013447, NM | Coding | TRUE |
| sorting nexin family member 21 | NM_001042632, | Coding | TRUE |
| sorting nexin family member 21 | NM_001042632, | Coding | TRUE |
| sorting nexin family member 21 | NM_001042632, | Coding | TRUE |
| sorting nexin family member 21 | NM_001042632, | Coding | TRUE |
| sorting nexin family member 21 | NM_001042632, | Coding | TRUE |
| histone deacetylase 1 | NM_004964, ENS | Coding | TRUE |
| histone deacetylase 1 | NM_004964, ENS | Coding | TRUE |
| histone deacetylase 1 | NM_004964, ENS | Coding | TRUE |
| leucine-rich pentatricopeptide repeat containing | NM_133259, ENS | Coding | TRUE |
| leucine-rich pentatricopeptide repeat containing | NM_133259, ENS | Coding | TRUE |
| leucine-rich pentatricopeptide repeat containing | NM_133259, ENS | Coding | TRUE |
| leucine-rich pentatricopeptide repeat containing | NM_133259, ENS | Coding | TRUE |
| leucine-rich pentatricopeptide repeat containing | NM_133259, ENS | Coding | TRUE |
| UFM1-specific peptidase 2 | NM_018359, NR | Coding | TRUE |
| UFM1-specific peptidase 2 | NM_018359, NR | Coding | TRUE |
| UFM1-specific peptidase 2 | NM_018359, NR | Coding | TRUE |
| UFM1-specific peptidase 2 | NM_018359, NR | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 1 (alpha | NM_001242466, | Coding | TRUE |
| aconitase 1, soluble | NM_002197, ENS | Coding | TRUE |
| aconitase 1, soluble | NM_002197, ENS | Coding | TRUE |
| aconitase 1, soluble | NM_002197, ENS | Coding | TRUE |
| aconitase 1, soluble | NM_002197, ENS | Coding | TRUE |
| aconitase 1, soluble | NM_002197, ENS | Coding | TRUE |
| ZW10 interactor | NM_032997, NM | Coding | TRUE |
| ZW10 interactor | NM_032997, NM | Coding | TRUE |
| zinc finger, MYM-type 2 | NM_197968, NM | Coding | TRUE |
| zinc finger, MYM-type 2 | NM_197968, NM | Coding | TRUE |
| zinc finger, MYM-type 2 | NM_197968, NM | Coding | TRUE |
| zinc finger, MYM-type 2 | NM_197968, NM | Coding | TRUE |
| leucine rich repeat containing 49 | NM_001199017, | Coding | TRUE |
| leucine rich repeat containing 49 | NM_001199017, | Coding | TRUE |
| leucine rich repeat containing 49 | NM_001199017, | Coding | TRUE |
| leucine rich repeat containing 49 | NM_001199017, | Coding | TRUE |
| leucine rich repeat containing 49 | NM_001199017, | Coding | TRUE |
| leucine rich repeat containing 49 | NM_001199017, | Coding | TRUE |
| thymidine kinase 2, mitochondrial | NM_004614, NM | Coding | TRUE |
| thymidine kinase 2, mitochondrial | NM_004614, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| thymidine kinase 2, mitochondrial | NM_004614, NM | Coding | TRUE |
| coiled-coil domain containing 9 | NM_015603, ENS | Coding | TRUE |
| coiled-coil domain containing 9 | NM_015603, ENS | Coding | TRUE |
| nuclear receptor coactivator 3 | NM_006534, NM | Coding | TRUE |
| nuclear receptor coactivator 3 | NM_006534, NM | Coding | TRUE |
| nuclear receptor coactivator 3 | NM_006534, NM | Coding | TRUE |
| nuclear receptor coactivator 3 | NM_006534, NM | Coding | TRUE |
| nuclear receptor coactivator 3 | NM_006534, NM | Coding | TRUE |
| ring finger protein 215, KIAA1656 protein | NM_001017981, | Coding | TRUE |
| ring finger protein 215, KIAA1656 protein | NM_001017981, | Coding | TRUE |
| ring finger protein 215, KIAA1656 protein | NM_001017981, | Coding | TRUE |
| ring finger protein 215, KIAA1656 protein | NM_001017981, | Coding | TRUE |
| centrosomal protein 192kDa | NM_032142, BC1 | Coding | TRUE |
| centrosomal protein 192kDa | NM_032142, BC1 | Coding | TRUE |
| centrosomal protein 192kDa | NM_032142, BC1 | Coding | TRUE |
| DENN/MADD domain containing 2C | NM_001256404, | Coding | TRUE |
| DENN/MADD domain containing 2C | NM_001256404, | Coding | TRUE |
| DENN/MADD domain containing 2C | NM_001256404, | Coding | TRUE |
| pleckstrin and Sec7 domain containing 4 | NM_012455, ENS | Coding | TRUE |
| pleckstrin and Sec7 domain containing 4 | NM_012455, ENS | Coding | TRUE |
| pleckstrin and Sec7 domain containing 4 | NM_012455, ENS | Coding | TRUE |
| glutamate receptor, metabotropic 7 | NM_000844, NM | Coding | TRUE |
| glutamate receptor, metabotropic 7 | NM_000844, NM | Coding | TRUE |
| glutamate receptor, metabotropic 7 | NM_000844, NM | Coding | TRUE |
| inturned planar cell polarity effector homolog (Drosoph | NM_015693, ENS | Coding | TRUE |
| inturned planar cell polarity effector homolog (Drosoph | NM_015693, ENS | Coding | TRUE |
| inturned planar cell polarity effector homolog (Drosoph | NM_015693, ENS | Coding | TRUE |
| inturned planar cell polarity effector homolog (Drosoph | NM_015693, ENS | Coding | TRUE |
| inturned planar cell polarity effector homolog (Drosoph | NM_015693, ENS | Coding | TRUE |
| synuclein, alpha interacting protein | NM_001242935, | Coding | TRUE |
| synuclein, alpha interacting protein | NM_001242935, | Coding | TRUE |
| synuclein, alpha interacting protein | NM_001242935, | Coding | TRUE |
| synuclein, alpha interacting protein | NM_001242935, | Coding | TRUE |
| molybdenum cofactor synthesis 2 | NM_004531, NM | Coding | TRUE |
| molybdenum cofactor synthesis 2 | NM_004531, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| solute carrier family 25, member 27 | NM_001204051, | Coding | TRUE |
| solute carrier family 25, member 27 | NM_001204051, | Coding | TRUE |
| solute carrier family 25, member 27 | NM_001204051, | Coding | TRUE |
| solute carrier family 25, member 27 | NM_001204051, | Coding | TRUE |
| zinc finger protein 425 | NM_001001661, | Coding | TRUE |
| zinc finger protein 425 | NM_001001661, | Coding | TRUE |
| zinc finger protein 425 | NM_001001661, | Coding | TRUE |
| zinc finger protein 425 | NM_001001661, | Coding | TRUE |
| zinc finger protein 425 | NM_001001661, | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| uncharacterized LOC100216001 | NR_024475, ENS | Coding | TRUE |
| nucleoporin 98kDa | NM_016320, NM | Coding | TRUE |
| nucleoporin 98kDa | NM_016320, NM | Coding | TRUE |
| nucleoporin 98kDa | NM_016320, NM | Coding | TRUE |
| nucleoporin 98kDa | NM_016320, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| dopey family member 1 | NM_001199942, | Coding | TRUE |
| family with sequence similarity 3, member C | NM_001040020, | Coding | TRUE |
| family with sequence similarity 3, member C | NM_001040020, | Coding | TRUE |
| family with sequence similarity 3, member C | NM_001040020, | Coding | TRUE |
| plasminogen receptor, C-terminal lysine transmembran | NM_018465, ENS | Coding | TRUE |
| plasminogen receptor, C-terminal lysine transmembran | NM_018465, ENS | Coding | TRUE |
| plasminogen receptor, C-terminal lysine transmembran | NM_018465, ENS | Coding | TRUE |
| plasminogen receptor, C-terminal lysine transmembran | NM_018465, ENS | Coding | TRUE |
| plasminogen receptor, C-terminal lysine transmembran | NM_018465, ENS | Coding | TRUE |
| zinc finger protein 782 | NM_001001662, | Coding | TRUE |
| zinc finger protein 782 | NM_001001662, | Coding | TRUE |
| zinc finger protein 782 | NM_001001662, | Coding | TRUE |
| PHD finger protein 21A | NM_001101802, | Coding | TRUE |
| PHD finger protein 21A | NM_001101802, | Coding | TRUE |
| PHD finger protein 21A | NM_001101802, | Coding | TRUE |
| PHD finger protein 21A | NM_001101802, | Coding | TRUE |
| suppressor of variegation 4-20 homolog 1 (Drosophila | NM_016028, NM | Coding | TRUE |
| suppressor of variegation 4-20 homolog 1 (Drosophila | NM_016028, NM | Coding | TRUE |
| suppressor of variegation 4-20 homolog 1 (Drosophila | NM_016028, NM | Coding | TRUE |
| suppressor of variegation 4-20 homolog 1 (Drosophila | NM_016028, NM | Coding | TRUE |
| suppressor of variegation 4-20 homolog 1 (Drosophila | NM_016028, NM | Coding | TRUE |
| BUD13 homolog (S. cerevisiae) | NM_001159736, | Coding | TRUE |
| BUD13 homolog (S. cerevisiae) | NM_001159736, | Coding | TRUE |
| DNA-damage-inducible transcript 3 | NM_001195053, | Coding | TRUE |
| DNA-damage-inducible transcript 3 | NM_001195053, | Coding | TRUE |
| DNA-damage-inducible transcript 3 | NM_001195053, | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| advillin | NM_006576, ENS | Coding | TRUE |
| fibronectin leucine rich transmembrane protein 2, unch | NM_013231, ENS | Coding | TRUE |
| fibronectin leucine rich transmembrane protein 2, unch | NM_013231, ENS | Coding | TRUE |
| fibronectin leucine rich transmembrane protein 2, unch | NM_013231, ENS | Coding | TRUE |
| uncharacterized LOC26082 | NR_026771, ENS | Coding | TRUE |
| uncharacterized LOC26082 | NR_026771, ENS | Coding | TRUE |
| uncharacterized LOC26082 | NR_026771, ENS | Coding | TRUE |
| uncharacterized LOC26082 | NR_026771, ENS | Coding | TRUE |
| uncharacterized LOC26082 | NR_026771, ENS | Coding | TRUE |
| uncharacterized LOC26082 | NR_026771, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_024430, BCC | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_024430, BCC | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_024430, BCC | Coding | TRUE |
| signal-regulatory protein alpha | NM_001040022, | Coding | TRUE |
| signal-regulatory protein alpha | NM_001040022, | Coding | TRUE |
| signal-regulatory protein alpha | NM_001040022, | Coding | TRUE |
| signal-regulatory protein alpha | NM_001040022, | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| collagen, type IX, alpha 3 | NM_001853, ENS | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) flavoprotein 3, 10i | NM_001001503, | Coding | TRUE |
| NADH dehydrogenase (ubiquinone) flavoprotein 3, 10i | NM_001001503, | Coding | TRUE |
| post-GPI attachment to proteins 1 | NM_024989, ENS | Coding | TRUE |
| post-GPI attachment to proteins 1 | NM_024989, ENS | Coding | TRUE |
| post-GPI attachment to proteins 1 | NM_024989, ENS | Coding | TRUE |
| post-GPI attachment to proteins 1 | NM_024989, ENS | Coding | TRUE |
| post-GPI attachment to proteins 1 | NM_024989, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 3 | NM_001135179, | Coding | TRUE |
| zinc finger, DHHC-type containing 3 | NM_001135179, | Coding | TRUE |
| histone deacetylase 3 | NM_003883, ENS | Coding | TRUE |
| histone deacetylase 3 | NM_003883, ENS | Coding | TRUE |
| histone deacetylase 3 | NM_003883, ENS | Coding | TRUE |
| zinc finger protein 862 | NM_001099220, | Coding | TRUE |
| zinc finger protein 862 | NM_001099220, | Coding | TRUE |
| zinc finger protein 862 | NM_001099220, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, | NM_001204824, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| odz, odd Oz/ten-m homolog 4 (Drosophila) | NM_001098816, | Coding | TRUE |
| ring finger protein 41 | NM_001242826, | Coding | TRUE |
| ring finger protein 41 | NM_001242826, | Coding | TRUE |
| ring finger protein 41 | NM_001242826, | Coding | TRUE |
| TGFB-induced factor homeobox 1 | NM_003244, NM | Coding | TRUE |
| TGFB-induced factor homeobox 1 | NM_003244, NM | Coding | TRUE |
| TGFB-induced factor homeobox 1 | NM_003244, NM | Coding | TRUE |
| TGFB-induced factor homeobox 1 | NM_003244, NM | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 1 | NM_004706, NM | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| Rho guanine nucleotide exchange factor (GEF) 1 | NM_004706, NM | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 1 | NM_004706, NM | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 1 | NM_001083592, | Coding | TRUE |
| CUB and Sushi multiple domains 2 | NM_052896, ENS | Coding | TRUE |
| CUB and Sushi multiple domains 2 | NM_052896, ENS | Coding | TRUE |
| CUB and Sushi multiple domains 2 | NM_052896, ENS | Coding | TRUE |
| transmembrane protein 63A | NM_014698, ENS | Coding | TRUE |
| transmembrane protein 63A | NM_014698, ENS | Coding | TRUE |
| mutS homolog 2, colon cancer, nonpolyposis type 1 (E | NM_000251, ENS | Coding | TRUE |
| mutS homolog 2, colon cancer, nonpolyposis type 1 (E | NM_000251, ENS | Coding | TRUE |
| mutS homolog 2, colon cancer, nonpolyposis type 1 (E | NM_000251, ENS | Coding | TRUE |
| zinc finger protein 512 | NM_032434, ENS | Coding | TRUE |
| zinc finger protein 512 | NM_032434, ENS | Coding | TRUE |
| protein kinase C, delta | NM_006254, NM | Coding | TRUE |
| protein kinase C, delta | NM_006254, NM | Coding | TRUE |
| protein kinase C, delta | NM_006254, NM | Coding | TRUE |
| protein kinase C, delta | NM_006254, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| membrane metallo-endopeptidase | NM_000902, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| PET112 homolog (yeast) | NM_004564, ENS | Coding | TRUE |
| PET112 homolog (yeast) | NM_004564, ENS | Coding | TRUE |
| PET112 homolog (yeast) | NM_004564, ENS | Coding | TRUE |
| PR domain containing 6 | NM_001136239, I | Coding | TRUE |
| PR domain containing 6 | NM_001136239, I | Coding | TRUE |
| ephrin-A5 | NM_001962, ENS | Coding | TRUE |
| ephrin-A5 | NM_001962, ENS | Coding | TRUE |
| ephrin-A5 | NM_001962, ENS | Coding | TRUE |
| ephrin-A5 | NM_001962, ENS | Coding | TRUE |
| copine V | NM_020939, ENS | Coding | TRUE |
| copine V | NM_020939, ENS | Coding | TRUE |
| copine V | NM_020939, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| peptidylprolyl isomerase (cyclophilin)-like 4 | NM_139126, ENS | Coding | TRUE |
| peptidylprolyl isomerase (cyclophilin)-like 4 | NM_139126, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| chromosome 6 open reading frame 130 | NM_145063, ENS | Coding | TRUE |
| solute carrier family 4, anion exchanger, member 2 (er | NM_003040, NM | Coding | TRUE |
| solute carrier family 4, anion exchanger, member 2 (er | NM_003040, NM | Coding | TRUE |
| solute carrier family 4, anion exchanger, member 2 (er | NM_003040, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| HECT domain containing E3 ubiquitin protein ligase 2 | NM_173497, NM | Coding | TRUE |
| CDC42 binding protein kinase gamma (DMPK-like) | NM_017525, ENS | Coding | TRUE |
| CDC42 binding protein kinase gamma (DMPK-like) | NM_017525, ENS | Coding | TRUE |
| CDC42 binding protein kinase gamma (DMPK-like) | NM_017525, ENS | Coding | TRUE |
| growth differentiation factor 5 | NM_000557, BCC | Coding | TRUE |
| growth differentiation factor 5 | NM_000557, BCC | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| oxysterol binding protein-like 6, microRNA 548n | NM_001201480, | Coding | TRUE |
| ligand of numb-protein X 1, E3 ubiquitin protein ligase | NM_001126328, | Coding | TRUE |
| ligand of numb-protein X 1, E3 ubiquitin protein ligase | NM_001126328, | Coding | TRUE |
| ligand of numb-protein X 1, E3 ubiquitin protein ligase | NM_001126328, | Coding | TRUE |
| ligand of numb-protein X 1, E3 ubiquitin protein ligase | NM_001126328, | Coding | TRUE |
| ligand of numb-protein X 1, E3 ubiquitin protein ligase | NM_001126328, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| centrosomal protein 120kDa | NM_001166226, | Coding | TRUE |
| molybdenum cofactor synthesis 1 | NM_001075098, | Coding | TRUE |
| molybdenum cofactor synthesis 1 | NM_001075098, | Coding | TRUE |
| molybdenum cofactor synthesis 1 | NM_001075098, | Coding | TRUE |
| trinucleotide repeat containing 18 | NM_001080495, | Coding | TRUE |
| trinucleotide repeat containing 18 | NM_001080495, | Coding | TRUE |
| trinucleotide repeat containing 18 | NM_001080495, | Coding | TRUE |
| trinucleotide repeat containing 18 | NM_001080495, | Coding | TRUE |
| procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 | NM_001084, ENS | Coding | TRUE |
| procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 | NM_001084, ENS | Coding | TRUE |
| uncharacterized LOC100507139 | ENST0000052114, | Coding | TRUE |
| uncharacterized LOC100507139 | ENST0000052114, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| protein tyrosine phosphatase, receptor type, E | NM_006504, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| poly (ADP-ribose) polymerase 1 | NM_001618, ENS | Coding | TRUE |
| hippocalcin-like 1 | NM_134421, NM | Coding | TRUE |
| hippocalcin-like 1 | NM_134421, NM | Coding | TRUE |
| hippocalcin-like 1 | NM_134421, NM | Coding | TRUE |
| inhibitor of growth family, member 5 | NM_032329, BCC | Coding | TRUE |
| inhibitor of growth family, member 5 | NM_032329, BCC | Coding | TRUE |
| natural killer-tumor recognition sequence | NM_005385, ENS | Coding | TRUE |
| natural killer-tumor recognition sequence | NM_005385, ENS | Coding | TRUE |
| natural killer-tumor recognition sequence | NM_005385, ENS | Coding | TRUE |
| natural killer-tumor recognition sequence | NM_005385, ENS | Coding | TRUE |
| natural killer-tumor recognition sequence | NM_005385, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 4E family membe | NM_001134651, | Coding | TRUE |
| eukaryotic translation initiation factor 4E family membe | NM_001134651, | Coding | TRUE |
| eukaryotic translation initiation factor 4E family membe | NM_001134651, | Coding | TRUE |
| eukaryotic translation initiation factor 4E family membe | NM_001134651, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| MDS1 and EVI1 complex locus | NM_001105077, | Coding | TRUE |
| general transcription factor IIH, polypeptide 2D, gener | NM_001042490, | Coding | TRUE |
| general transcription factor IIH, polypeptide 2D, gener | NM_001042490, | Coding | TRUE |
| general transcription factor IIH, polypeptide 2D, gener | NM_001042490, | Coding | TRUE |
| general transcription factor IIH, polypeptide 2D, gener | NM_001042490, | Coding | TRUE |
| general transcription factor IIH, polypeptide 2D, gener | NM_001042490, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| selenoprotein P, plasma, 1 | NM_001085486, | Coding | TRUE |
| enoyl-CoA delta isomerase 2 | NM_001166010, | Coding | TRUE |
| enoyl-CoA delta isomerase 2 | NM_001166010, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| ferric-chelate reductase 1-like | NM_014334, ENS | Coding | TRUE |
| ferric-chelate reductase 1-like | NM_014334, ENS | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_031219, ENS | Coding | TRUE |
| haloacid dehalogenase-like hydrolase domain containi | NM_031219, ENS | Coding | TRUE |
| ninein (GSK3B interacting protein) | NM_020921, NM | Coding | TRUE |
| ninein (GSK3B interacting protein) | NM_020921, NM | Coding | TRUE |
| ninein (GSK3B interacting protein) | NM_020921, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| cathepsin H | NM_004390, ENS | Coding | TRUE |
| cathepsin H | NM_004390, ENS | Coding | TRUE |
| cathepsin H | NM_004390, ENS | Coding | TRUE |
| cathepsin H | NM_004390, ENS | Coding | TRUE |
| cathepsin H | NM_004390, ENS | Coding | TRUE |
| cathepsin H | NM_004390, ENS | Coding | TRUE |
| ADP-ribosylation factor-like 17B, ADP-ribosylation fact | NM_001039083, | Coding | TRUE |
| ADP-ribosylation factor-like 17B, ADP-ribosylation fact | NM_001039083, | Coding | TRUE |
| ADP-ribosylation factor-like 17B, ADP-ribosylation fact | NM_001039083, | Coding | TRUE |
| ADP-ribosylation factor-like 17B, ADP-ribosylation fact | NM_001039083, | Coding | TRUE |
| bladder cancer associated protein | NM_006698, NM | Coding | TRUE |
| bladder cancer associated protein | NM_006698, NM | Coding | TRUE |
| bladder cancer associated protein | NM_006698, NM | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| synaptic Ras GTPase activating protein 1 | NM_006772 | Coding | TRUE |
| synaptic Ras GTPase activating protein 1 | NM_006772 | Coding | TRUE |
| synaptic Ras GTPase activating protein 1 | NM_006772 | Coding | TRUE |
| caspase 8, apoptosis-related cysteine peptidase | NM_001080124, | Coding | TRUE |
| caspase 8, apoptosis-related cysteine peptidase | NM_001080124, | Coding | TRUE |
| caspase 8, apoptosis-related cysteine peptidase | NM_001080124, | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransport | NM_021196, NM | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransport | NM_021196, NM | Coding | TRUE |
| interleukin 18 binding protein | NM_001039659, | Coding | TRUE |
| interleukin 18 binding protein | NM_001039659, | Coding | TRUE |
| interleukin 18 binding protein | NM_001039659, | Coding | TRUE |
| sialidase 3 (membrane sialidase) | NM_006656, ENS | Coding | TRUE |
| sialidase 3 (membrane sialidase) | NM_006656, ENS | Coding | TRUE |
| sialidase 3 (membrane sialidase) | NM_006656, ENS | Coding | TRUE |
| sialidase 3 (membrane sialidase) | NM_006656, ENS | Coding | TRUE |
| Sp7 transcription factor | NM_001173467, | Coding | TRUE |
| Sp7 transcription factor | NM_001173467, | Coding | TRUE |
| Sp7 transcription factor | NM_001173467, | Coding | TRUE |
| Sp7 transcription factor | NM_001173467, | Coding | TRUE |
| Sp7 transcription factor | NM_001173467, | Coding | TRUE |
| vacuolar protein sorting 33 homolog A (S. cerevisiae) | NM_022916, ENS | Coding | TRUE |
| vacuolar protein sorting 33 homolog A (S. cerevisiae) | NM_022916, ENS | Coding | TRUE |
| vacuolar protein sorting 33 homolog A (S. cerevisiae) | NM_022916, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| vacuolar protein sorting 33 homolog A (S. cerevisiae) | NM_022916, ENS | Coding | TRUE |
| vacuolar protein sorting 33 homolog A (S. cerevisiae) | NM_022916, ENS | Coding | TRUE |
| cyclin-dependent kinase 8 | NM_001260, ENS | Coding | TRUE |
| cyclin-dependent kinase 8 | NM_001260, ENS | Coding | TRUE |
| testis-specific serine kinase 4 | NM_001184739, | Coding | TRUE |
| testis-specific serine kinase 4 | NM_001184739, | Coding | TRUE |
| testis-specific serine kinase 4 | NM_001184739, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| interleukin 12 receptor, beta 1 | NM_005535, NM, | Coding | TRUE |
| interleukin 12 receptor, beta 1 | NM_005535, NM, | Coding | TRUE |
| uncharacterized LOC100131320 | NR_036537, ENS | Coding | TRUE |
| uncharacterized LOC100131320 | NR_036537, ENS | Coding | TRUE |
| nuclear receptor subfamily 1, group D, member 2 | NM_001145425, | Coding | TRUE |
| nuclear receptor subfamily 1, group D, member 2 | NM_001145425, | Coding | TRUE |
| nuclear receptor subfamily 1, group D, member 2 | NM_001145425, | Coding | TRUE |
| YEATS domain containing 2 | NM_018023, ENS | Coding | TRUE |
| YEATS domain containing 2 | NM_018023, ENS | Coding | TRUE |
| YEATS domain containing 2 | NM_018023, ENS | Coding | TRUE |
| YEATS domain containing 2 | NM_018023, ENS | Coding | TRUE |
| YEATS domain containing 2 | NM_018023, ENS | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| arylsulfatase B | NM_000046, NM, | Coding | TRUE |
| TTK protein kinase | NM_003318, NM, | Coding | TRUE |
| TTK protein kinase | NM_003318, NM, | Coding | TRUE |
| TTK protein kinase | NM_003318, NM, | Coding | TRUE |
| uncharacterized LOC100132707 | NR_024476, NR, | Coding | TRUE |
| uncharacterized LOC100132707 | NR_024476, NR, | Coding | TRUE |
| uncharacterized LOC100132707 | NR_024476, NR, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| tal1 | NM_006289, ENS | Coding | TRUE |
| tal1 | NM_006289, ENS | Coding | TRUE |
| tal1 | NM_006289, ENS | Coding | TRUE |
| zinc finger protein 92 homolog (mouse) | NM_001136273, | Coding | TRUE |
| zinc finger protein 92 homolog (mouse) | NM_001136273, | Coding | TRUE |
| zinc finger protein 92 homolog (mouse) | NM_001136273, | Coding | TRUE |
| zinc finger protein 92 homolog (mouse) | NM_001136273, | Coding | TRUE |
| exocyst complex component 6 | NM_001013848, | Coding | TRUE |
| exocyst complex component 6 | NM_001013848, | Coding | TRUE |
| exocyst complex component 6 | NM_001013848, | Coding | TRUE |
| exocyst complex component 6 | NM_001013848, | Coding | TRUE |
| transient receptor potential cation channel, subfamily C | NR_029192 | Coding | TRUE |
| transient receptor potential cation channel, subfamily C | NR_029192 | Coding | TRUE |
| tumor necrosis factor (ligand) superfamily, member 13 | NM_001145645, | Coding | TRUE |
| tumor necrosis factor (ligand) superfamily, member 13 | NM_001145645, | Coding | TRUE |
| tumor necrosis factor (ligand) superfamily, member 13 | NM_001145645, | Coding | TRUE |
| coiled-coil domain containing 169 | NM_001144981, | Coding | TRUE |
| coiled-coil domain containing 169 | NM_001144981, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| coiled-coil domain containing 169 | NM_001144981, | Coding | TRUE |
| coiled-coil domain containing 169 | NM_001144981, | Coding | TRUE |
| coiled-coil domain containing 169 | NM_001144981, | Coding | TRUE |
| coiled-coil domain containing 169 | NM_001144981, | Coding | TRUE |
| transmembrane 6 superfamily member 1 | NM_001144903, | Coding | TRUE |
| transmembrane 6 superfamily member 1 | NM_001144903, | Coding | TRUE |
| transmembrane 6 superfamily member 1 | NM_001144903, | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transmembrane protein 106A | NM_145041, ENS | Coding | TRUE |
| transducin-like enhancer of split 6 (E(sp1) homolog, Df | NM_001143986, | Coding | TRUE |
| transducin-like enhancer of split 6 (E(sp1) homolog, Df | NM_001143986, | Coding | TRUE |
| transducin-like enhancer of split 6 (E(sp1) homolog, Df | NM_001143986, | Coding | TRUE |
| core-binding factor, runt domain, alpha subunit 2; trans | NM_001032999, | Coding | TRUE |
| core-binding factor, runt domain, alpha subunit 2; trans | NM_001032999, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| insulin induced gene 2 | NM_016133, ENS | Coding | TRUE |
| insulin induced gene 2 | NM_016133, ENS | Coding | TRUE |
| insulin induced gene 2 | NM_016133, ENS | Coding | TRUE |
| insulin induced gene 2 | NM_016133, ENS | Coding | TRUE |
| insulin induced gene 2 | NM_016133, ENS | Coding | TRUE |
| transient receptor potential cation channel, subfamily C | NM_001251845, | Coding | TRUE |
| transient receptor potential cation channel, subfamily C | NM_001251845, | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| solute carrier family 22 (organic cation/carnitine transp | NM_003060, ENS | Coding | TRUE |
| required for meiotic nuclear division 5 homolog B (S. c | NM_022762, ENS | Coding | TRUE |
| required for meiotic nuclear division 5 homolog B (S. c | NM_022762, ENS | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| negative regulator of ubiquitin-like proteins 1 | NM_001243351, | Coding | TRUE |
| negative regulator of ubiquitin-like proteins 1 | NM_001243351, | Coding | TRUE |
| troponin T type 3 (skeletal, fast) | NM_001042780, | Coding | TRUE |
| troponin T type 3 (skeletal, fast) | NM_001042780, | Coding | TRUE |
| troponin T type 3 (skeletal, fast) | NM_001042780, | Coding | TRUE |
| troponin T type 3 (skeletal, fast) | NM_001042780, | Coding | TRUE |
| troponin T type 3 (skeletal, fast) | NM_001042780, | Coding | TRUE |
| MAP/microtubule affinity-regulating kinase 2 | NM_001039469, | Coding | TRUE |
| MAP/microtubule affinity-regulating kinase 2 | NM_001039469, | Coding | TRUE |
| MAP/microtubule affinity-regulating kinase 2 | NM_001039469, | Coding | TRUE |
| MAP/microtubule affinity-regulating kinase 2 | NM_001039469, | Coding | TRUE |
| ninjurin 2 | NM_016533, ENS | Coding | TRUE |
| ninjurin 2 | NM_016533, ENS | Coding | TRUE |
| ninjurin 2 | NM_016533, ENS | Coding | TRUE |
| ninjurin 2 | NM_016533, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| long intergenic non-protein coding RNA 607 | NR_037195, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 607 | NR_037195, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 607 | NR_037195, ENS | Coding | TRUE |
| histamine receptor H1 | NM_001098212, | Coding | TRUE |
| histamine receptor H1 | NM_001098212, | Coding | TRUE |
| histamine receptor H1 | NM_001098212, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| retinoic acid receptor, beta | NM_000965, NM, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_018358, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_018358, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_018358, ENS | Coding | TRUE |
| inter-alpha-trypsin inhibitor heavy chain family, membe | NM_001166449, | Coding | TRUE |
| inter-alpha-trypsin inhibitor heavy chain family, membe | NM_001166449, | Coding | TRUE |
| inter-alpha-trypsin inhibitor heavy chain family, membe | NM_001166449, | Coding | TRUE |
| inter-alpha-trypsin inhibitor heavy chain family, membe | NM_001166449, | Coding | TRUE |
| inter-alpha-trypsin inhibitor heavy chain family, membe | NM_001166449, | Coding | TRUE |
| tolloid-like 1 | NM_001204760, | Coding | TRUE |
| tolloid-like 1 | NM_001204760, | Coding | TRUE |
| tolloid-like 1 | NM_001204760, | Coding | TRUE |
| tolloid-like 1 | NM_001204760, | Coding | TRUE |
| Lyrn7 homolog (mouse) | NM_181705, ENS | Coding | TRUE |
| Lyrn7 homolog (mouse) | NM_181705, ENS | Coding | TRUE |
| Lyrn7 homolog (mouse) | NM_181705, ENS | Coding | TRUE |
| ubiquitin specific peptidase 49 | NM_018561, BCC | Coding | TRUE |
| ubiquitin specific peptidase 49 | NM_018561, BCC | Coding | TRUE |
| ubiquitin specific peptidase 49 | NM_018561, BCC | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001197026, | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001197026, | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001197026, | Coding | TRUE |
| pleckstrin homology domain containing, family A (phos | NM_001197026, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 6 | NM_058246, NM, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 6 | NM_058246, NM, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 6 | NM_058246, NM, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 6 | NM_058246, NM, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily B, member 6 | NM_058246, NM, | Coding | TRUE |
| zinc finger protein 704 | NM_001033723, | Coding | TRUE |
| zinc finger protein 704 | NM_001033723, | Coding | TRUE |
| zinc finger protein 704 | NM_001033723, | Coding | TRUE |
| zinc finger protein 704 | NM_001033723, | Coding | TRUE |
| zinc finger protein 704 | NM_001033723, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |

| | | | |
|--|---------------|--------|------|
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| COBW domain containing 1 | NM_001145355, | Coding | TRUE |
| nuclear factor I/B | NM_001190738, | Coding | TRUE |
| nuclear factor I/B | NM_001190738, | Coding | TRUE |
| CD99 molecule | NM_002414, NM | Coding | TRUE |
| CD99 molecule | NM_002414, NM | Coding | TRUE |
| CD99 molecule | NM_002414, NM | Coding | TRUE |
| small nuclear ribonucleoprotein 35kDa (U11/U12) | NM_022717, NM | Coding | TRUE |
| small nuclear ribonucleoprotein 35kDa (U11/U12) | NM_022717, NM | Coding | TRUE |
| small nuclear ribonucleoprotein 35kDa (U11/U12) | NM_022717, NM | Coding | TRUE |
| small nuclear ribonucleoprotein 35kDa (U11/U12) | NM_022717, NM | Coding | TRUE |
| small nuclear ribonucleoprotein 35kDa (U11/U12) | NM_022717, NM | Coding | TRUE |
| matrix Gla protein | NM_000900, NM | Coding | TRUE |
| matrix Gla protein | NM_000900, NM | Coding | TRUE |
| matrix Gla protein | NM_000900, NM | Coding | TRUE |
| epithelial stromal interaction 1 (breast) | NM_001002264, | Coding | TRUE |
| epithelial stromal interaction 1 (breast) | NM_001002264, | Coding | TRUE |
| golgin A8 family, member B pseudogene | NR_038843 | Coding | TRUE |
| golgin A8 family, member B pseudogene | NR_038843 | Coding | TRUE |
| golgin A8 family, member B pseudogene | NR_038843 | Coding | TRUE |
| branched chain ketoacid dehydrogenase kinase | NM_001122957, | Coding | TRUE |
| branched chain ketoacid dehydrogenase kinase | NM_001122957, | Coding | TRUE |
| branched chain ketoacid dehydrogenase kinase | NM_001122957, | Coding | TRUE |
| branched chain ketoacid dehydrogenase kinase | NM_001122957, | Coding | TRUE |
| v-akt murine thymoma viral oncogene homolog 2 | NM_001626, NM | Coding | TRUE |
| v-akt murine thymoma viral oncogene homolog 2 | NM_001626, NM | Coding | TRUE |
| v-akt murine thymoma viral oncogene homolog 2 | NM_001626, NM | Coding | TRUE |
| chromosome 20 open reading frame 173 | NM_001145350, | Coding | TRUE |
| chromosome 20 open reading frame 173 | NM_001145350, | Coding | TRUE |
| tetratricopeptide repeat domain 3, tetratricopeptide rep | NM_001001894, | Coding | TRUE |
| tetratricopeptide repeat domain 3, tetratricopeptide rep | NM_001001894, | Coding | TRUE |
| tetratricopeptide repeat domain 3, tetratricopeptide rep | NM_001001894, | Coding | TRUE |
| tetratricopeptide repeat domain 3, tetratricopeptide rep | NM_001001894, | Coding | TRUE |
| tetratricopeptide repeat domain 3, tetratricopeptide rep | NM_001001894, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| suppressor APC domain containing 1, mutS homolog 5 | NM_001039651, | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| insulin, insulin-like growth factor 2 (somatomedin A), IN | NM_000207, NM | Coding | TRUE |
| insulin, insulin-like growth factor 2 (somatomedin A), IN | NM_000207, NM | Coding | TRUE |
| insulin, insulin-like growth factor 2 (somatomedin A), IN | NM_000207, NM | Coding | TRUE |
| DCP1 decapping enzyme homolog B (S. cerevisiae) | NM_152640, ENS | Coding | TRUE |
| DCP1 decapping enzyme homolog B (S. cerevisiae) | NM_152640, ENS | Coding | TRUE |
| DCP1 decapping enzyme homolog B (S. cerevisiae) | NM_152640, ENS | Coding | TRUE |
| DCP1 decapping enzyme homolog B (S. cerevisiae) | NM_152640, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), memt | NM_001243013, | Coding | TRUE |
| ATP-binding cassette, sub-family B (MDR/TAP), memt | NM_001243013, | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| jumonji domain containing 7, phospholipase A2, group | NM_001114632, I | Coding | TRUE |
| family with sequence similarity 18, member A | NM_001079512, | Coding | TRUE |
| family with sequence similarity 18, member A | NM_001079512, | Coding | TRUE |
| glutamyl-tRNA synthetase 2, mitochondrial (putative) | NM_001083614, | Coding | TRUE |
| glutamyl-tRNA synthetase 2, mitochondrial (putative) | NM_001083614, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| ATP-binding cassette, sub-family F (GCN20), member | NM_001025091, | Coding | TRUE |
| tectonic family member 1 | NM_001082537, | Coding | TRUE |
| tectonic family member 1 | NM_001082537, | Coding | TRUE |
| tectonic family member 1 | NM_001082537, | Coding | TRUE |
| SWT1 RNA endoribonuclease homolog (S. cerevisiae) | NM_001105518, I | Coding | TRUE |
| SWT1 RNA endoribonuclease homolog (S. cerevisiae) | NM_001105518, I | Coding | TRUE |
| SWT1 RNA endoribonuclease homolog (S. cerevisiae) | NM_001105518, I | Coding | TRUE |
| SWT1 RNA endoribonuclease homolog (S. cerevisiae) | NM_001105518, I | Coding | TRUE |
| SWT1 RNA endoribonuclease homolog (S. cerevisiae) | NM_001105518, I | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 145kDa | NM_001017915, | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 145kDa | NM_001017915, | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 145kDa | NM_001017915, | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 145kDa | NM_001017915, | Coding | TRUE |
| inositol polyphosphate-5-phosphatase, 145kDa | NM_001017915, | Coding | TRUE |
| crystallin, gamma S | NM_017541, ENS | Coding | TRUE |
| crystallin, gamma S | NM_017541, ENS | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| leukemia inhibitory factor receptor alpha | NM_001127671, I | Coding | TRUE |
| uncharacterized LOC100507557 | NR_038244, NR | Coding | TRUE |
| uncharacterized LOC100507557 | NR_038244, NR | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| LY75-CD302 readthrough, CD302 molecule, lymphocy | NM_001198759, | Coding | TRUE |
| GPN-loop GTPase 1 | NM_001145047, | Coding | TRUE |
| GPN-loop GTPase 1 | NM_001145047, | Coding | TRUE |
| GPN-loop GTPase 1 | NM_001145047, | Coding | TRUE |
| topoisomerase (DNA) II beta 180kDa, microRNA 4442 | NM_001068, NR_ | Coding | TRUE |
| topoisomerase (DNA) II beta 180kDa, microRNA 4442 | NM_001068, NR_ | Coding | TRUE |
| topoisomerase (DNA) II beta 180kDa, microRNA 4442 | NM_001068, NR_ | Coding | TRUE |
| topoisomerase (DNA) II beta 180kDa, microRNA 4442 | NM_001068, NR_ | Coding | TRUE |
| topoisomerase (DNA) II beta 180kDa, microRNA 4442 | NM_001068, NR_ | Coding | TRUE |
| alcohol dehydrogenase 1C (class I), gamma polypepti | NM_000669, ENS | Coding | TRUE |
| alcohol dehydrogenase 1C (class I), gamma polypepti | NM_000669, ENS | Coding | TRUE |
| alcohol dehydrogenase 1C (class I), gamma polypepti | NM_000669, ENS | Coding | TRUE |
| alcohol dehydrogenase 1C (class I), gamma polypepti | NM_000669, ENS | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| zinc finger protein 451 | NM_001031623, | Coding | TRUE |
| retinoic acid receptor responder (tazarotene induced) | NM_002889, ENS | Coding | TRUE |
| retinoic acid receptor responder (tazarotene induced) | NM_002889, ENS | Coding | TRUE |
| RMI1, RecQ mediated genome instability 1, homolog (| NM_024945, ENS | Coding | TRUE |
| RMI1, RecQ mediated genome instability 1, homolog (| NM_024945, ENS | Coding | TRUE |
| RMI1, RecQ mediated genome instability 1, homolog (| NM_024945, ENS | Coding | TRUE |
| RMI1, RecQ mediated genome instability 1, homolog (| NM_024945, ENS | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 1 | NM_001145527, | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 1 | NM_001145527, | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 1 | NM_001145527, | Coding | TRUE |
| nucleolar protein 8 | NM_001256394, | Coding | TRUE |
| nucleolar protein 8 | NM_001256394, | Coding | TRUE |
| nucleolar protein 8 | NM_001256394, | Coding | TRUE |
| nucleolar protein 8 | NM_001256394, | Coding | TRUE |
| nucleolar protein 8 | NM_001256394, | Coding | TRUE |
| nucleolar protein 8 | NM_001256394, | Coding | TRUE |
| family with sequence similarity 156, member B, family | NM_001099684, | Coding | TRUE |
| family with sequence similarity 156, member B, family | NM_001099684, | Coding | TRUE |
| ATPase, class VI, type 11C | NM_001010986, | Coding | TRUE |
| ATPase, class VI, type 11C | NM_001010986, | Coding | TRUE |
| ATPase, class VI, type 11C | NM_001010986, | Coding | TRUE |
| structural maintenance of chromosomes 3 | NM_005445, ENS | Coding | TRUE |
| structural maintenance of chromosomes 3 | NM_005445, ENS | Coding | TRUE |
| structural maintenance of chromosomes 3 | NM_005445, ENS | Coding | TRUE |
| structural maintenance of chromosomes 3 | NM_005445, ENS | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| tripartite motif containing 5 | NM_033093, NM_ | Coding | TRUE |
| unc-45 homolog A (C. elegans) | NM_001039675, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| signal peptide, CUB domain, EGF-like 3 | NM_152753, ENS | Coding | TRUE |
| phosphoseryl-tRNA kinase | NM_153336, ENS | Coding | TRUE |
| phosphoseryl-tRNA kinase | NM_153336, ENS | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II gamma | NM_001204492, | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II gamma | NM_001204492, | Coding | TRUE |
| chromosome 11 open reading frame 30 | NM_020193, BC1 | Coding | TRUE |
| chromosome 11 open reading frame 30 | NM_020193, BC1 | Coding | TRUE |
| chromosome 11 open reading frame 30 | NM_020193, BC1 | Coding | TRUE |
| chromosome 11 open reading frame 30 | NM_020193, BC1 | Coding | TRUE |
| chromosome 11 open reading frame 30 | NM_020193, BC1 | Coding | TRUE |
| importin 5 | NM_002271, ENS | Coding | TRUE |
| importin 5 | NM_002271, ENS | Coding | TRUE |
| importin 5 | NM_002271, ENS | Coding | TRUE |
| importin 5 | NM_002271, ENS | Coding | TRUE |
| importin 5 | NM_002271, ENS | Coding | TRUE |
| sulfide quinone reductase-like (yeast) | NM_021199, ENS | Coding | TRUE |
| sulfide quinone reductase-like (yeast) | NM_021199, ENS | Coding | TRUE |
| class II, major histocompatibility complex, transactivator | NM_000246, ENS | Coding | TRUE |
| class II, major histocompatibility complex, transactivator | NM_000246, ENS | Coding | TRUE |
| class II, major histocompatibility complex, transactivator | NM_000246, ENS | Coding | TRUE |
| component of oligomeric golgi complex 1 | NM_018714, ENS | Coding | TRUE |
| component of oligomeric golgi complex 1 | NM_018714, ENS | Coding | TRUE |
| fms-related tyrosine kinase 3 ligand | NM_001204502, | Coding | TRUE |
| fms-related tyrosine kinase 3 ligand | NM_001204502, | Coding | TRUE |
| polo-like kinase 1 substrate 1 | NM_001163022, | Coding | TRUE |
| polo-like kinase 1 substrate 1 | NM_001163022, | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM | Coding | TRUE |
| major histocompatibility complex, class I-related | NM_001194999, | Coding | TRUE |
| major histocompatibility complex, class I-related | NM_001194999, | Coding | TRUE |
| major histocompatibility complex, class I-related | NM_001194999, | Coding | TRUE |
| major histocompatibility complex, class I-related | NM_001194999, | Coding | TRUE |
| transcription elongation factor A (SII), 3 | NM_003196, ENS | Coding | TRUE |
| transcription elongation factor A (SII), 3 | NM_003196, ENS | Coding | TRUE |
| transcription elongation factor A (SII), 3 | NM_003196, ENS | Coding | TRUE |
| transcription elongation factor A (SII), 3 | NM_003196, ENS | Coding | TRUE |
| olfactomedin-like 2B | NM_015441, BCC | Coding | TRUE |
| olfactomedin-like 2B | NM_015441, BCC | Coding | TRUE |
| olfactomedin-like 2B | NM_015441, BCC | Coding | TRUE |
| tenascin R (restrictin, janusin) | NM_003285, ENS | Coding | TRUE |
| tenascin R (restrictin, janusin) | NM_003285, ENS | Coding | TRUE |
| tenascin R (restrictin, janusin) | NM_003285, ENS | Coding | TRUE |
| E2F transcription factor 6 | NM_198256, NR | Coding | TRUE |
| E2F transcription factor 6 | NM_198256, NR | Coding | TRUE |
| E2F transcription factor 6 | NM_198256, NR | Coding | TRUE |
| acid phosphatase-like 2 | NM_001037172, | Coding | TRUE |
| acid phosphatase-like 2 | NM_001037172, | Coding | TRUE |
| acid phosphatase-like 2 | NM_001037172, | Coding | TRUE |
| acid phosphatase-like 2 | NM_001037172, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| solute carrier family 35, member B3 | NM_001142540, | Coding | TRUE |
| solute carrier family 35, member B3 | NM_001142540, | Coding | TRUE |
| solute carrier family 35, member B3 | NM_001142540, | Coding | TRUE |
| glutathione S-transferase alpha 4 | NM_001512, ENS | Coding | TRUE |
| glutathione S-transferase alpha 4 | NM_001512, ENS | Coding | TRUE |
| makorin ring finger protein 1 | NM_013446, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| makorin ring finger protein 1 | NM_013446, NM | Coding | TRUE |
| makorin ring finger protein 1 | NM_013446, NM | Coding | TRUE |
| makorin ring finger protein 1 | NM_013446, NM | Coding | TRUE |
| makorin ring finger protein 1 | NM_013446, NM | Coding | TRUE |
| KIAA1147 | NM_001080392, | Coding | TRUE |
| KIAA1147 | NM_001080392, | Coding | TRUE |
| KIAA1147 | NM_001080392, | Coding | TRUE |
| frizzled family receptor 3 | NM_017412, NM | Coding | TRUE |
| frizzled family receptor 3 | NM_017412, NM | Coding | TRUE |
| frizzled family receptor 3 | NM_017412, NM | Coding | TRUE |
| frizzled family receptor 3 | NM_017412, NM | Coding | TRUE |
| frizzled family receptor 3 | NM_017412, NM | Coding | TRUE |
| uncharacterized LOC100507651 | NR_038235, ENS | Coding | TRUE |
| uncharacterized LOC100507651 | NR_038235, ENS | Coding | TRUE |
| leucine rich repeat and sterile alpha motif containing 1 | NM_001005373, | Coding | TRUE |
| leucine rich repeat and sterile alpha motif containing 1 | NM_001005373, | Coding | TRUE |
| leucine rich repeat and sterile alpha motif containing 1 | NM_001005373, | Coding | TRUE |
| leucine rich repeat and sterile alpha motif containing 1 | NM_001005373, | Coding | TRUE |
| leucine rich repeat and sterile alpha motif containing 1 | NM_001005373, | Coding | TRUE |
| F-box protein 10 | NM_012166, BC1 | Coding | TRUE |
| F-box protein 10 | NM_012166, BC1 | Coding | TRUE |
| F-box protein 10 | NM_012166, BC1 | Coding | TRUE |
| F-box protein 10 | NM_012166, BC1 | Coding | TRUE |
| hypoxanthine phosphoribosyltransferase 1 | NM_000194, ENS | Coding | TRUE |
| hypoxanthine phosphoribosyltransferase 1 | NM_000194, ENS | Coding | TRUE |
| PHD finger protein 8 | NM_001184896, | Coding | TRUE |
| PHD finger protein 8 | NM_001184896, | Coding | TRUE |
| PHD finger protein 8 | NM_001184896, | Coding | TRUE |
| PHD finger protein 8 | NM_001184896, | Coding | TRUE |
| PHD finger protein 8 | NM_001184896, | Coding | TRUE |
| discs, large homolog 2 (Drosophila) | NM_001142699, | Coding | TRUE |
| discs, large homolog 2 (Drosophila) | NM_001142699, | Coding | TRUE |
| discs, large homolog 2 (Drosophila) | NM_001142699, | Coding | TRUE |
| discs, large homolog 2 (Drosophila) | NM_001142699, | Coding | TRUE |
| WNK lysine deficient protein kinase 1 | NM_018979, NM | Coding | TRUE |
| WNK lysine deficient protein kinase 1 | NM_018979, NM | Coding | TRUE |
| WNK lysine deficient protein kinase 1 | NM_018979, NM | Coding | TRUE |
| WNK lysine deficient protein kinase 1 | NM_018979, NM | Coding | TRUE |
| WNK lysine deficient protein kinase 1 | NM_018979, NM | Coding | TRUE |
| WNK lysine deficient protein kinase 1 | NM_018979, NM | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| forkhead box J2 | NM_018416, ENS | Coding | TRUE |
| RAD9 homolog B (S. pombe) | NM_152442, ENS | Coding | TRUE |
| RAD9 homolog B (S. pombe) | NM_152442, ENS | Coding | TRUE |
| RAD9 homolog B (S. pombe) | NM_152442, ENS | Coding | TRUE |
| RAD9 homolog B (S. pombe) | NM_152442, ENS | Coding | TRUE |
| RAD52 homolog (S. cerevisiae), uncharacterized LOC | NM_134424, ENS | Coding | TRUE |
| RAD52 homolog (S. cerevisiae), uncharacterized LOC | NM_134424, ENS | Coding | TRUE |
| RAD52 homolog (S. cerevisiae), uncharacterized LOC | NM_134424, ENS | Coding | TRUE |
| RAD52 homolog (S. cerevisiae), uncharacterized LOC | NM_134424, ENS | Coding | TRUE |
| tripartite motif containing 9 | NM_015163, NM | Coding | TRUE |
| tripartite motif containing 9 | NM_015163, NM | Coding | TRUE |
| tripartite motif containing 9 | NM_015163, NM | Coding | TRUE |

| | | | |
|---|-------------------------------|--------|------|
| tripartite motif containing 9 | NM_015163, NM_015163 | Coding | TRUE |
| tripartite motif containing 9 | NM_015163, NM_015163 | Coding | TRUE |
| SLX1 structure-specific endonuclease subunit homolog | NM_001014999, NM_001014999 | Coding | TRUE |
| SLX1 structure-specific endonuclease subunit homolog | NM_001014999, NM_001014999 | Coding | TRUE |
| SLX1 structure-specific endonuclease subunit homolog | NM_001014999, NM_001014999 | Coding | TRUE |
| SLX1 structure-specific endonuclease subunit homolog | NM_001014999, NM_001014999 | Coding | TRUE |
| SLX1 structure-specific endonuclease subunit homolog | NM_001014999, NM_001014999 | Coding | TRUE |
| SLX1 structure-specific endonuclease subunit homolog | NM_001014999, NM_001014999 | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_178517, ENSMUSM00000100000 | Coding | TRUE |
| phosphatidylinositol glycan anchor biosynthesis, class | NM_178517, ENSMUSM00000100000 | Coding | TRUE |
| T-box 1 | NM_080647, NM_080647 | Coding | TRUE |
| T-box 1 | NM_080647, NM_080647 | Coding | TRUE |
| T-box 1 | NM_080647, NM_080647 | Coding | TRUE |
| T-box 1 | NM_080647, NM_080647 | Coding | TRUE |
| T-box 1 | NM_080647, NM_080647 | Coding | TRUE |
| T-box 1 | NM_080647, NM_080647 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| proline-rich coiled-coil 2A | NM_004638, NM_004638 | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transporter) | NM_018964, ENSMUSM00000100000 | Coding | TRUE |
| solute carrier family 37 (glycerol-3-phosphate transporter) | NM_018964, ENSMUSM00000100000 | Coding | TRUE |
| acyl-CoA dehydrogenase family, member 9 | NM_014049, NR_014049 | Coding | TRUE |
| acyl-CoA dehydrogenase family, member 9 | NM_014049, NR_014049 | Coding | TRUE |
| acyl-CoA dehydrogenase family, member 9 | NM_014049, NR_014049 | Coding | TRUE |
| chromosome 3 open reading frame 37 | NM_001006109, NM_001006109 | Coding | TRUE |
| chromosome 3 open reading frame 37 | NM_001006109, NM_001006109 | Coding | TRUE |
| chromosome 3 open reading frame 37 | NM_001006109, NM_001006109 | Coding | TRUE |
| chromosome 3 open reading frame 37 | NM_001006109, NM_001006109 | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 2 | NM_014247, ENSMUSM00000100000 | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 2 | NM_014247, ENSMUSM00000100000 | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 2 | NM_014247, ENSMUSM00000100000 | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 2 | NM_014247, ENSMUSM00000100000 | Coding | TRUE |
| Rap guanine nucleotide exchange factor (GEF) 2 | NM_014247, ENSMUSM00000100000 | Coding | TRUE |
| ring finger protein 44 | NM_014901, ENSMUSM00000100000 | Coding | TRUE |
| ring finger protein 44 | NM_014901, ENSMUSM00000100000 | Coding | TRUE |
| uncharacterized LOC378805 | NR_015431, NR_015431 | Coding | TRUE |
| uncharacterized LOC378805 | NR_015431, NR_015431 | Coding | TRUE |
| uncharacterized LOC378805 | NR_015431, NR_015431 | Coding | TRUE |
| uncharacterized LOC378805 | NR_015431, NR_015431 | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit | NM_015941, NM_015941 | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit | NM_015941, NM_015941 | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit | NM_015941, NM_015941 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| lysine (K)-specific demethylase 4C | NM_001146694, NM_001146694 | Coding | TRUE |
| filamin A, alpha | NM_001456, NM_001456 | Coding | TRUE |
| filamin A, alpha | NM_001456, NM_001456 | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| glutamate-rich 1 | NM_207332, ENS | Coding | TRUE |
| glutamate-rich 1 | NM_207332, ENS | Coding | TRUE |
| glutamate-rich 1 | NM_207332, ENS | Coding | TRUE |
| glutamate-rich 1 | NM_207332, ENS | Coding | TRUE |
| topoisomerase (DNA) I, mitochondrial | NM_052963, ENS | Coding | TRUE |
| topoisomerase (DNA) I, mitochondrial | NM_052963, ENS | Coding | TRUE |
| topoisomerase (DNA) I, mitochondrial | NM_052963, ENS | Coding | TRUE |
| topoisomerase (DNA) I, mitochondrial | NM_052963, ENS | Coding | TRUE |
| toll-interleukin 1 receptor (TIR) domain containing adaj | NM_001039661, | Coding | TRUE |
| toll-interleukin 1 receptor (TIR) domain containing adaj | NM_001039661, | Coding | TRUE |
| toll-interleukin 1 receptor (TIR) domain containing adaj | NM_001039661, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| PTPRF interacting protein, binding protein 1 (liprin bet | NM_001198915, | Coding | TRUE |
| low density lipoprotein receptor-related protein 10 | NM_014045, ENS | Coding | TRUE |
| low density lipoprotein receptor-related protein 10 | NM_014045, ENS | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| progesterin and adipoQ receptor family member V | NM_001104554, | Coding | TRUE |
| high mobility group 20A | NM_018200, ENS | Coding | TRUE |
| high mobility group 20A | NM_018200, ENS | Coding | TRUE |
| transducin-like enhancer of split 3 (E(sp1) homolog, D | NM_001105192, | Coding | TRUE |
| transducin-like enhancer of split 3 (E(sp1) homolog, D | NM_001105192, | Coding | TRUE |
| transducin-like enhancer of split 3 (E(sp1) homolog, D | NM_001105192, | Coding | TRUE |
| transducin-like enhancer of split 3 (E(sp1) homolog, D | NM_001105192, | Coding | TRUE |
| suppressor of zeste 12 homolog pseudogene 1 | NR_024187 | Coding | TRUE |
| suppressor of zeste 12 homolog pseudogene 1 | NR_024187 | Coding | TRUE |
| suppressor of zeste 12 homolog pseudogene 1 | NR_024187 | Coding | TRUE |
| suppressor of zeste 12 homolog pseudogene 1 | NR_024187 | Coding | TRUE |
| uncharacterized LOC100507263 | ENST000004234 | Coding | TRUE |
| uncharacterized LOC100507263 | ENST000004234 | Coding | TRUE |
| uncharacterized LOC100507263 | ENST000004234 | Coding | TRUE |
| uncharacterized LOC100507263 | ENST000004234 | Coding | TRUE |
| structural maintenance of chromosomes flexible hinge | NM_015295, ENS | Coding | TRUE |
| structural maintenance of chromosomes flexible hinge | NM_015295, ENS | Coding | TRUE |
| structural maintenance of chromosomes flexible hinge | NM_015295, ENS | Coding | TRUE |
| coiled-coil domain containing 61 | NM_001080402, | Coding | TRUE |
| coiled-coil domain containing 61 | NM_001080402, | Coding | TRUE |
| coiled-coil domain containing 61 | NM_001080402, | Coding | TRUE |
| NDRG family member 3 | NM_022477, NM | Coding | TRUE |
| NDRG family member 3 | NM_022477, NM | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| major histocompatibility complex, class I, A | NM_001242758, | Coding | TRUE |
| chromosome 1 open reading frame 201 | NM_001199012, | Coding | TRUE |
| chromosome 1 open reading frame 201 | NM_001199012, | Coding | TRUE |
| chromosome 1 open reading frame 201 | NM_001199012, | Coding | TRUE |
| chromosome 1 open reading frame 201 | NM_001199012, | Coding | TRUE |
| chromosome 1 open reading frame 201 | NM_001199012, | Coding | TRUE |
| plexin B1 | NM_001130082, | Coding | TRUE |
| plexin B1 | NM_001130082, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| microRNA 943, Wolf-Hirschhorn syndrome candidate 2 | NR_030641, NM | Coding | TRUE |
| microRNA 943, Wolf-Hirschhorn syndrome candidate 2 | NR_030641, NM | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_001166050, | Coding | TRUE |
| WD repeat domain 70 | NM_018034, ENS | Coding | TRUE |
| WD repeat domain 70 | NM_018034, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 18 | NM_152686, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 18 | NM_152686, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 18 | NM_152686, ENS | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| PHD finger protein 20-like 1 | NM_016018, NM | Coding | TRUE |
| fibroblast growth factor receptor 1 | NM_001174067, | Coding | TRUE |
| fibroblast growth factor receptor 1 | NM_001174067, | Coding | TRUE |
| fibroblast growth factor receptor 1 | NM_001174067, | Coding | TRUE |
| fibroblast growth factor receptor 1 | NM_001174067, | Coding | TRUE |
| fibroblast growth factor receptor 1 | NM_001174067, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| patatin-like phospholipase domain containing 7 | NM_001098537, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| G protein-coupled receptor 64 | NM_001079858, | Coding | TRUE |
| neuron navigator 3 | NM_014903, ENS | Coding | TRUE |
| neuron navigator 3 | NM_014903, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| receptor tyrosine kinase-like orphan receptor 2 | NM_004560, ENS | Coding | TRUE |
| RAB9B, member RAS oncogene family | NM_016370, ENS | Coding | TRUE |
| RAB9B, member RAS oncogene family | NM_016370, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 1A, Y-linked | NM_004681, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 2, uncharacterized LOC100652762, ar | NM_001630, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, | Coding | TRUE |
| lymphocyte-specific protein 1 | NM_002339, NM | Coding | TRUE |
| lymphocyte-specific protein 1 | NM_002339, NM | Coding | TRUE |
| lymphocyte-specific protein 1 | NM_002339, NM | Coding | TRUE |
| protease, serine, 23 | NM_007173, ENS | Coding | TRUE |
| protease, serine, 23 | NM_007173, ENS | Coding | TRUE |
| protease, serine, 23 | NM_007173, ENS | Coding | TRUE |
| timeless homolog (Drosophila) | NM_003920, ENS | Coding | TRUE |
| timeless homolog (Drosophila) | NM_003920, ENS | Coding | TRUE |
| timeless homolog (Drosophila) | NM_003920, ENS | Coding | TRUE |
| timeless homolog (Drosophila) | NM_003920, ENS | Coding | TRUE |
| timeless homolog (Drosophila) | NM_003920, ENS | Coding | TRUE |
| timeless homolog (Drosophila) | NM_003920, ENS | Coding | TRUE |
| acidic (leucine-rich) nuclear phosphoprotein 32 family, | NM_006305, ENS | Coding | TRUE |
| acidic (leucine-rich) nuclear phosphoprotein 32 family, | NM_006305, ENS | Coding | TRUE |
| acidic (leucine-rich) nuclear phosphoprotein 32 family, | NM_006305, ENS | Coding | TRUE |
| ADP-ribosylation factor-like 17A, ADP-ribosylation fact | NM_001113738, I | Coding | TRUE |
| ADP-ribosylation factor-like 17A, ADP-ribosylation fact | NM_001113738, I | Coding | TRUE |
| ADP-ribosylation factor-like 17A, ADP-ribosylation fact | NM_001113738, I | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |

| | | | |
|--|-------------------------------|--------|------|
| long intergenic non-protein coding RNA 478 | NR_027790, NR_027790 | Coding | TRUE |
| long intergenic non-protein coding RNA 478 | NR_027790, NR_027790 | Coding | TRUE |
| long intergenic non-protein coding RNA 478 | NR_027790, NR_027790 | Coding | TRUE |
| long intergenic non-protein coding RNA 478 | NR_027790, NR_027790 | Coding | TRUE |
| long intergenic non-protein coding RNA 478 | NR_027790, NR_027790 | Coding | TRUE |
| polo-like kinase 3 | NM_004073, ENSG00000180000 | Coding | TRUE |
| polo-like kinase 3 | NM_004073, ENSG00000180000 | Coding | TRUE |
| RAP2C, member of RAS oncogene family | NM_021183, ENSG00000170000 | Coding | TRUE |
| RAP2C, member of RAS oncogene family | NM_021183, ENSG00000170000 | Coding | TRUE |
| RAP2C, member of RAS oncogene family | NM_021183, ENSG00000170000 | Coding | TRUE |
| collagen, type V, alpha 2 | NM_000393, ENSG00000170000 | Coding | TRUE |
| collagen, type V, alpha 2 | NM_000393, ENSG00000170000 | Coding | TRUE |
| collagen, type V, alpha 2 | NM_000393, ENSG00000170000 | Coding | TRUE |
| collagen, type V, alpha 2 | NM_000393, ENSG00000170000 | Coding | TRUE |
| collagen, type V, alpha 2 | NM_000393, ENSG00000170000 | Coding | TRUE |
| signal transducer and activator of transcription 4 | NM_001243835, ENSG00000170000 | Coding | TRUE |
| signal transducer and activator of transcription 4 | NM_001243835, ENSG00000170000 | Coding | TRUE |
| signal transducer and activator of transcription 4 | NM_001243835, ENSG00000170000 | Coding | TRUE |
| signal transducer and activator of transcription 4 | NM_001243835, ENSG00000170000 | Coding | TRUE |
| signal transducer and activator of transcription 4 | NM_001243835, ENSG00000170000 | Coding | TRUE |
| signal transducer and activator of transcription 4 | NM_001243835, ENSG00000170000 | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 7 | NM_003335, ENSG00000170000 | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 7 | NM_003335, ENSG00000170000 | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 7 | NM_003335, ENSG00000170000 | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 7 | NM_003335, ENSG00000170000 | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 7 | NM_003335, ENSG00000170000 | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 7 | NM_003335, ENSG00000170000 | Coding | TRUE |
| folliculin interacting protein 2 | NM_020840, ENSG00000170000 | Coding | TRUE |
| folliculin interacting protein 2 | NM_020840, ENSG00000170000 | Coding | TRUE |
| folliculin interacting protein 2 | NM_020840, ENSG00000170000 | Coding | TRUE |
| folliculin interacting protein 2 | NM_020840, ENSG00000170000 | Coding | TRUE |
| folliculin interacting protein 2 | NM_020840, ENSG00000170000 | Coding | TRUE |
| folliculin interacting protein 2 | NM_020840, ENSG00000170000 | Coding | TRUE |
| Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA | NM_016955, ENSG00000170000 | Coding | TRUE |
| Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA | NM_016955, ENSG00000170000 | Coding | TRUE |
| Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA | NM_016955, ENSG00000170000 | Coding | TRUE |
| Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA | NM_016955, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| long intergenic non-protein coding RNA 340 | NR_015410, ENSG00000170000 | Coding | TRUE |
| geminin, DNA replication inhibitor | NM_001251989, ENSG00000170000 | Coding | TRUE |
| geminin, DNA replication inhibitor | NM_001251989, ENSG00000170000 | Coding | TRUE |
| geminin, DNA replication inhibitor | NM_001251989, ENSG00000170000 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| zinc finger, DHHC-type containing 14 | NM_024630, NM_024630 | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, HLA-DRA | NM_001243965, ENSG00000170000 | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, HLA-DRA | NM_001243965, ENSG00000170000 | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, HLA-DRA | NM_001243965, ENSG00000170000 | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, HLA-DRA | NM_001243965, ENSG00000170000 | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| major histocompatibility complex, class II, DR beta 1, H | NM_001243965, | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, H | NM_001243965, | Coding | TRUE |
| major histocompatibility complex, class II, DR beta 1, H | NM_001243965, | Coding | TRUE |
| ependymin related protein 1 (zebrafish) | NM_001242946, | Coding | TRUE |
| ependymin related protein 1 (zebrafish) | NM_001242946, | Coding | TRUE |
| ependymin related protein 1 (zebrafish) | NM_001242946, | Coding | TRUE |
| family with sequence similarity 49, member B | NM_016623, BCC | Coding | TRUE |
| family with sequence similarity 49, member B | NM_016623, BCC | Coding | TRUE |
| family with sequence similarity 49, member B | NM_016623, BCC | Coding | TRUE |
| X (inactive)-specific transcript (non-protein coding) | NR_001564, ENS | Coding | TRUE |
| X (inactive)-specific transcript (non-protein coding) | NR_001564, ENS | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 20B, | NM_001042363, | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 20B, | NM_001042363, | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 20B, | NM_001042363, | Coding | TRUE |
| chromosome 13 open reading frame 33 | NM_032849, ENS | Coding | TRUE |
| chromosome 13 open reading frame 33 | NM_032849, ENS | Coding | TRUE |
| chromosome 13 open reading frame 33 | NM_032849, ENS | Coding | TRUE |
| chromosome 13 open reading frame 33 | NM_032849, ENS | Coding | TRUE |
| chromosome 13 open reading frame 33 | NM_032849, ENS | Coding | TRUE |
| chromosome 13 open reading frame 33 | NM_032849, ENS | Coding | TRUE |
| fibulin 5 | NM_006329, ENS | Coding | TRUE |
| fibulin 5 | NM_006329, ENS | Coding | TRUE |
| fibulin 5 | NM_006329, ENS | Coding | TRUE |
| fibulin 5 | NM_006329, ENS | Coding | TRUE |
| fibulin 5 | NM_006329, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| gliomedin | NM_181789, ENS | Coding | TRUE |
| mannosidase, alpha, class 2A, member 2 | NM_006122, ENS | Coding | TRUE |
| mannosidase, alpha, class 2A, member 2 | NM_006122, ENS | Coding | TRUE |
| cadherin 13, H-cadherin (heart) | NM_001220488, | Coding | TRUE |
| cadherin 13, H-cadherin (heart) | NM_001220488, | Coding | TRUE |
| cadherin 13, H-cadherin (heart) | NM_001220488, | Coding | TRUE |
| cadherin 13, H-cadherin (heart) | NM_001220488, | Coding | TRUE |
| cadherin 13, H-cadherin (heart) | NM_001220488, | Coding | TRUE |
| suppressor of zeste 12 homolog (Drosophila) | NM_015355, ENS | Coding | TRUE |
| suppressor of zeste 12 homolog (Drosophila) | NM_015355, ENS | Coding | TRUE |
| suppressor of zeste 12 homolog (Drosophila) | NM_015355, ENS | Coding | TRUE |
| suppressor of zeste 12 homolog (Drosophila) | NM_015355, ENS | Coding | TRUE |
| retinoblastoma binding protein 8, microRNA 4741 | NM_002894, NM | Coding | TRUE |
| retinoblastoma binding protein 8, microRNA 4741 | NM_002894, NM | Coding | TRUE |
| retinoblastoma binding protein 8, microRNA 4741 | NM_002894, NM | Coding | TRUE |
| retinoblastoma binding protein 8, microRNA 4741 | NM_002894, NM | Coding | TRUE |
| retinoblastoma binding protein 8, microRNA 4741 | NM_002894, NM | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| laminin, alpha 1 | NM_005559, ENS | Coding | TRUE |
| synaptotagmin III | NM_001160328, I | Coding | TRUE |
| synaptotagmin III | NM_001160328, I | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| synaptotagmin III | NM_001160328, | Coding | TRUE |
| synaptotagmin III | NM_001160328, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_014508, ENS | Coding | TRUE |
| apolipoprotein B mRNA editing enzyme, catalytic poly | NM_014508, ENS | Coding | TRUE |
| pantothenate kinase 1 | NM_138316, NM | Coding | TRUE |
| pantothenate kinase 1 | NM_138316, NM | Coding | TRUE |
| pantothenate kinase 1 | NM_138316, NM | Coding | TRUE |
| ERO1-like beta (S. cerevisiae) | NM_019891, ENS | Coding | TRUE |
| ERO1-like beta (S. cerevisiae) | NM_019891, ENS | Coding | TRUE |
| ERO1-like beta (S. cerevisiae) | NM_019891, ENS | Coding | TRUE |
| ERO1-like beta (S. cerevisiae) | NM_019891, ENS | Coding | TRUE |
| golgi reassembly stacking protein 2, 55kDa | NM_001201428, | Coding | TRUE |
| golgi reassembly stacking protein 2, 55kDa | NM_001201428, | Coding | TRUE |
| interferon induced with helicase C domain 1 | NM_022168, ENS | Coding | TRUE |
| interferon induced with helicase C domain 1 | NM_022168, ENS | Coding | TRUE |
| interferon induced with helicase C domain 1 | NM_022168, ENS | Coding | TRUE |
| synapsin II | NM_003178, NM | Coding | TRUE |
| synapsin II | NM_003178, NM | Coding | TRUE |
| antigen p97 (melanoma associated) identified by monoclonal antibody | NM_005929, NM | Coding | TRUE |
| antigen p97 (melanoma associated) identified by monoclonal antibody | NM_005929, NM | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| drosha, ribonuclease type III | NM_001100412, | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| kelch-like 3 (Drosophila) | NM_017415, ENS | Coding | TRUE |
| protease, serine, 16 (thymus) | NM_005865, ENS | Coding | TRUE |
| protease, serine, 16 (thymus) | NM_005865, ENS | Coding | TRUE |
| protease, serine, 16 (thymus) | NM_005865, ENS | Coding | TRUE |
| PX domain containing 1 | NM_183373, ENS | Coding | TRUE |
| PX domain containing 1 | NM_183373, ENS | Coding | TRUE |
| PX domain containing 1 | NM_183373, ENS | Coding | TRUE |
| mitochondrial ribosomal protein L2 | NM_015950, ENS | Coding | TRUE |
| mitochondrial ribosomal protein L2 | NM_015950, ENS | Coding | TRUE |
| mitochondrial ribosomal protein L2 | NM_015950, ENS | Coding | TRUE |
| CAP-GLY domain containing linker protein 2 | NM_003388, NM | Coding | TRUE |
| CAP-GLY domain containing linker protein 2 | NM_003388, NM | Coding | TRUE |
| CAP-GLY domain containing linker protein 2 | NM_003388, NM | Coding | TRUE |
| CAP-GLY domain containing linker protein 2 | NM_003388, NM | Coding | TRUE |
| CD99 molecule pseudogene 1 | NR_033380, NR | Coding | TRUE |
| CD99 molecule pseudogene 1 | NR_033380, NR | Coding | TRUE |
| protein phosphatase 2, regulatory subunit B, beta | NM_013239, ENS | Coding | TRUE |
| protein phosphatase 2, regulatory subunit B, beta | NM_013239, ENS | Coding | TRUE |
| protein phosphatase 2, regulatory subunit B, beta | NM_013239, ENS | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 20B, | NM_001042364, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| inositol polyphosphate-4-phosphatase, type II, 105kDa | NM_001101669, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| neuronal regeneration related protein homolog (rat) | NM_001142483, | Coding | TRUE |
| bromodomain containing 9 | NM_001009877, | Coding | TRUE |
| bromodomain containing 9 | NM_001009877, | Coding | TRUE |
| bromodomain containing 9 | NM_001009877, | Coding | TRUE |
| bromodomain containing 9 | NM_001009877, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| solute carrier family 20 (phosphate transporter), memb | NM_006749, ENS | Coding | TRUE |
| solute carrier family 20 (phosphate transporter), memb | NM_006749, ENS | Coding | TRUE |
| solute carrier family 20 (phosphate transporter), memb | NM_006749, ENS | Coding | TRUE |
| solute carrier family 20 (phosphate transporter), memb | NM_006749, ENS | Coding | TRUE |
| solute carrier family 20 (phosphate transporter), memb | NM_006749, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| carbonic anhydrase IX | NM_001216, ENS | Coding | TRUE |
| brain-derived neurotrophic factor | NM_001143805, | Coding | TRUE |
| brain-derived neurotrophic factor | NM_001143805, | Coding | TRUE |
| brain-derived neurotrophic factor | NM_001143805, | Coding | TRUE |
| brain-derived neurotrophic factor | NM_001143805, | Coding | TRUE |
| thymine-DNA glycosylase | NM_003211, ENS | Coding | TRUE |
| thymine-DNA glycosylase | NM_003211, ENS | Coding | TRUE |
| thymine-DNA glycosylase | NM_003211, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 3 | NM_001089, ENS | Coding | TRUE |
| ERGIC and golgi 3 | NM_015966, NM | Coding | TRUE |
| ERGIC and golgi 3 | NM_015966, NM | Coding | TRUE |
| ERGIC and golgi 3 | NM_015966, NM | Coding | TRUE |
| ERGIC and golgi 3 | NM_015966, NM | Coding | TRUE |
| chaperonin containing TCP1, subunit 8 (theta) | NM_006585, ENS | Coding | TRUE |
| chaperonin containing TCP1, subunit 8 (theta) | NM_006585, ENS | Coding | TRUE |
| C1q and tumor necrosis factor related protein 6 | NM_031910, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| C1q and tumor necrosis factor related protein 6 | NM_031910, NM | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 2 | NM_006709, NM | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 2 | NM_006709, NM | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 2 | NM_006709, NM | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 2 | NM_006709, NM | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 2 | NM_006709, NM | Coding | TRUE |
| euchromatic histone-lysine N-methyltransferase 2 | NM_006709, NM | Coding | TRUE |
| coagulation factor VII (serum prothrombin conversion | NM_000131, NM | Coding | TRUE |
| coagulation factor VII (serum prothrombin conversion | NM_000131, NM | Coding | TRUE |
| heat shock 27kDa protein family, member 7 (cardiovas | NM_014424, ENS | Coding | TRUE |
| heat shock 27kDa protein family, member 7 (cardiovas | NM_014424, ENS | Coding | TRUE |
| heat shock 27kDa protein family, member 7 (cardiovas | NM_014424, ENS | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 19 | NM_153213, BCC | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 19 | NM_153213, BCC | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 19 | NM_153213, BCC | Coding | TRUE |
| Rho guanine nucleotide exchange factor (GEF) 19 | NM_153213, BCC | Coding | TRUE |
| SCL/TAL1 interrupting locus | NM_003035, NM | Coding | TRUE |
| SCL/TAL1 interrupting locus | NM_003035, NM | Coding | TRUE |
| SCL/TAL1 interrupting locus | NM_003035, NM | Coding | TRUE |
| nuclear receptor binding protein 1 | NM_013392, ENS | Coding | TRUE |
| nuclear receptor binding protein 1 | NM_013392, ENS | Coding | TRUE |
| nuclear receptor binding protein 1 | NM_013392, ENS | Coding | TRUE |
| SMAD family member 1 | NM_001003688, | Coding | TRUE |
| SMAD family member 1 | NM_001003688, | Coding | TRUE |
| SMAD family member 1 | NM_001003688, | Coding | TRUE |
| dimethylglycine dehydrogenase | NM_013391, ENS | Coding | TRUE |
| dimethylglycine dehydrogenase | NM_013391, ENS | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| l(3)mbt-like 3 (Drosophila) | NM_001007102, | Coding | TRUE |
| chromosome 8 open reading frame 42 | NM_001256113, | Coding | TRUE |
| chromosome 8 open reading frame 42 | NM_001256113, | Coding | TRUE |
| fibroblast growth factor 7 pseudogene | NR_003674, ENS | Coding | TRUE |
| fibroblast growth factor 7 pseudogene | NR_003674, ENS | Coding | TRUE |
| fibroblast growth factor 7 pseudogene | NR_003674, ENS | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase 8 | NM_001244134, | Coding | TRUE |
| mitogen-activated protein kinase kinase kinase 8 | NM_001244134, | Coding | TRUE |
| MAX interactor 1 | NM_130439, NM | Coding | TRUE |
| MAX interactor 1 | NM_130439, NM | Coding | TRUE |
| MAX interactor 1 | NM_130439, NM | Coding | TRUE |
| MAX interactor 1 | NM_130439, NM | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 2 | NM_001142276, | Coding | TRUE |
| amyloid beta (A4) precursor-like protein 2 | NM_001142276, | Coding | TRUE |
| amyloid beta (A4) precursor protein-binding, family B, | NM_145689, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| ferric-chelate reductase 1 | NM_001013660, | Coding | TRUE |
| ferric-chelate reductase 1 | NM_001013660, | Coding | TRUE |
| ferric-chelate reductase 1 | NM_001013660, | Coding | TRUE |
| uncharacterized LOC728730 | NR_037875, ENS | Coding | TRUE |
| uncharacterized LOC728730 | NR_037875, ENS | Coding | TRUE |
| FAST kinase domains 1 | NM_024622, ENS | Coding | TRUE |
| FAST kinase domains 1 | NM_024622, ENS | Coding | TRUE |
| filamin A interacting protein 1-like | NM_014890, NM | Coding | TRUE |
| filamin A interacting protein 1-like | NM_014890, NM | Coding | TRUE |
| filamin A interacting protein 1-like | NM_014890, NM | Coding | TRUE |
| filamin A interacting protein 1-like | NM_014890, NM | Coding | TRUE |
| filamin A interacting protein 1-like | NM_014890, NM | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransport | NM_031467, ENS | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransport | NM_031467, ENS | Coding | TRUE |
| solute carrier family 4, sodium bicarbonate cotransport | NM_031467, ENS | Coding | TRUE |
| ras-related C3 botulinum toxin substrate 1 (rho family, | NM_006908, NM | Coding | TRUE |
| ras-related C3 botulinum toxin substrate 1 (rho family, | NM_006908, NM | Coding | TRUE |
| cleavage and polyadenylation specific factor 4, 30kDa | NM_001081559, | Coding | TRUE |
| cleavage and polyadenylation specific factor 4, 30kDa | NM_001081559, | Coding | TRUE |
| cleavage and polyadenylation specific factor 4, 30kDa | NM_001081559, | Coding | TRUE |
| cleavage and polyadenylation specific factor 4, 30kDa | NM_001081559, | Coding | TRUE |
| cleavage and polyadenylation specific factor 4, 30kDa | NM_001081559, | Coding | TRUE |
| hephaestin | NM_001130860, | Coding | TRUE |
| hephaestin | NM_001130860, | Coding | TRUE |
| ubiquitin-like 4A | NM_014235, ENS | Coding | TRUE |
| ubiquitin-like 4A | NM_014235, ENS | Coding | TRUE |
| peripherin | NM_006262, ENS | Coding | TRUE |
| peripherin | NM_006262, ENS | Coding | TRUE |
| peripherin | NM_006262, ENS | Coding | TRUE |
| huntingtin interacting protein 1 related | NM_003959, ENS | Coding | TRUE |
| huntingtin interacting protein 1 related | NM_003959, ENS | Coding | TRUE |
| huntingtin interacting protein 1 related | NM_003959, ENS | Coding | TRUE |
| huntingtin interacting protein 1 related | NM_003959, ENS | Coding | TRUE |
| huntingtin interacting protein 1 related | NM_003959, ENS | Coding | TRUE |
| oxidase (cytochrome c) assembly 1-like | NM_005015, ENS | Coding | TRUE |
| oxidase (cytochrome c) assembly 1-like | NM_005015, ENS | Coding | TRUE |
| transmembrane emp24 protein transport domain conta | NM_213601, ENS | Coding | TRUE |
| transmembrane emp24 protein transport domain conta | NM_213601, ENS | Coding | TRUE |
| leucine rich repeat containing 37, member A2, leucine | NM_001006607, | Coding | TRUE |
| leucine rich repeat containing 37, member A2, leucine | NM_001006607, | Coding | TRUE |
| ets variant 4 | NM_001079675, | Coding | TRUE |
| ets variant 4 | NM_001079675, | Coding | TRUE |
| kinesin family member 18B | NM_001080443, | Coding | TRUE |
| kinesin family member 18B | NM_001080443, | Coding | TRUE |
| prion protein | NM_000311, NM | Coding | TRUE |
| prion protein | NM_000311, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| G patch domain and ankyrin repeats 1 | NM_001199237, | Coding | TRUE |
| transmembrane protein 177 | NM_001105199, | Coding | TRUE |
| transmembrane protein 177 | NM_001105199, | Coding | TRUE |
| transmembrane protein 177 | NM_001105199, | Coding | TRUE |
| CD1d molecule | NM_001766, BCC | Coding | TRUE |
| CD1d molecule | NM_001766, BCC | Coding | TRUE |
| CD1d molecule | NM_001766, BCC | Coding | TRUE |
| CD1d molecule | NM_001766, BCC | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| coiled-coil domain containing 85A | NM_001080433, | Coding | TRUE |
| proteasome (prosome, macropain) 26S subunit, non-A | NM_001191037, | Coding | TRUE |
| proteasome (prosome, macropain) 26S subunit, non-A | NM_001191037, | Coding | TRUE |
| proteasome (prosome, macropain) 26S subunit, non-A | NM_001191037, | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| sideroflexin 5 | NM_144579, ENS | Coding | TRUE |
| ARP1 actin-related protein 1 homolog B, centractin be | NM_005735, ENS | Coding | TRUE |
| ARP1 actin-related protein 1 homolog B, centractin be | NM_005735, ENS | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 2B | NM_013450, ENS | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 2B | NM_013450, ENS | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 2B | NM_013450, ENS | Coding | TRUE |
| zinc finger, FYVE domain containing 20 | NM_022340, ENS | Coding | TRUE |
| zinc finger, FYVE domain containing 20 | NM_022340, ENS | Coding | TRUE |
| zinc finger, FYVE domain containing 20 | NM_022340, ENS | Coding | TRUE |
| gypsy retrotransposon integrase 1 | NM_017676, ENS | Coding | TRUE |
| gypsy retrotransposon integrase 1 | NM_017676, ENS | Coding | TRUE |
| gypsy retrotransposon integrase 1 | NM_017676, ENS | Coding | TRUE |
| gypsy retrotransposon integrase 1 | NM_017676, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| MMS22-like, DNA repair protein | NM_198468, ENS | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| amphiphysin | NM_001635, NM | Coding | TRUE |
| amphiphysin | NM_001635, NM | Coding | TRUE |
| pigeon homolog (Drosophila) | NM_017439, ENS | Coding | TRUE |
| pigeon homolog (Drosophila) | NM_017439, ENS | Coding | TRUE |
| pigeon homolog (Drosophila) | NM_017439, ENS | Coding | TRUE |
| tripartite motif containing 4 | NM_033017, NM | Coding | TRUE |
| tripartite motif containing 4 | NM_033017, NM | Coding | TRUE |
| non-POU domain containing, octamer-binding | NM_001145408, | Coding | TRUE |
| non-POU domain containing, octamer-binding | NM_001145408, | Coding | TRUE |
| plastin 3 | NM_001136025, | Coding | TRUE |
| plastin 3 | NM_001136025, | Coding | TRUE |
| plastin 3 | NM_001136025, | Coding | TRUE |
| plastin 3 | NM_001136025, | Coding | TRUE |
| low density lipoprotein receptor-related protein 4 | NM_002334, ENS | Coding | TRUE |
| low density lipoprotein receptor-related protein 4 | NM_002334, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| low density lipoprotein receptor-related protein 4 | NM_002334, ENS | Coding | TRUE |
| low density lipoprotein receptor-related protein 4 | NM_002334, ENS | Coding | TRUE |
| glycine-N-acyltransferase-like 2 | NM_145016, BCC | Coding | TRUE |
| glycine-N-acyltransferase-like 2 | NM_145016, BCC | Coding | TRUE |
| cyclin-dependent kinase 2 | NM_001798, NM | Coding | TRUE |
| cyclin-dependent kinase 2 | NM_001798, NM | Coding | TRUE |
| cyclin-dependent kinase 2 | NM_001798, NM | Coding | TRUE |
| RAB3A interacting protein (rabin3) | NM_001024647, | Coding | TRUE |
| RAB3A interacting protein (rabin3) | NM_001024647, | Coding | TRUE |
| crystallin, lambda 1 | NM_015974, ENS | Coding | TRUE |
| crystallin, lambda 1 | NM_015974, ENS | Coding | TRUE |
| crystallin, lambda 1 | NM_015974, ENS | Coding | TRUE |
| metallothionein 1M | NM_176870, ENS | Coding | TRUE |
| metallothionein 1M | NM_176870, ENS | Coding | TRUE |
| metallothionein 1M | NM_176870, ENS | Coding | TRUE |
| metallothionein 1M | NM_176870, ENS | Coding | TRUE |
| pleckstrin homology domain containing, family M (with | NM_014798, NR | Coding | TRUE |
| pleckstrin homology domain containing, family M (with | NM_014798, NR | Coding | TRUE |
| pleckstrin homology domain containing, family M (with | NM_014798, NR | Coding | TRUE |
| tensin 4 | NM_032865, ENS | Coding | TRUE |
| tensin 4 | NM_032865, ENS | Coding | TRUE |
| tensin 4 | NM_032865, ENS | Coding | TRUE |
| tensin 4 | NM_032865, ENS | Coding | TRUE |
| zinc finger protein 571 | NM_016536, ENS | Coding | TRUE |
| zinc finger protein 571 | NM_016536, ENS | Coding | TRUE |
| aconitase 2, mitochondrial | NM_001098, ENS | Coding | TRUE |
| aconitase 2, mitochondrial | NM_001098, ENS | Coding | TRUE |
| aconitase 2, mitochondrial | NM_001098, ENS | Coding | TRUE |
| aconitase 2, mitochondrial | NM_001098, ENS | Coding | TRUE |
| myotubularin related protein 3 | NM_021090, NM | Coding | TRUE |
| myotubularin related protein 3 | NM_021090, NM | Coding | TRUE |
| myotubularin related protein 3 | NM_021090, NM | Coding | TRUE |
| myotubularin related protein 3 | NM_021090, NM | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| chromosome 1 open reading frame 88 | NM_181643, BCC | Coding | TRUE |
| chromosome 1 open reading frame 88 | NM_181643, BCC | Coding | TRUE |
| zinc finger protein 678 | NM_178549, NR | Coding | TRUE |
| zinc finger protein 678 | NM_178549, NR | Coding | TRUE |
| uncharacterized LOC728855, uncharacterized LOC72 | NR_024510, NR | Coding | TRUE |
| uncharacterized LOC728855, uncharacterized LOC72 | NR_024510, NR | Coding | TRUE |
| uncharacterized LOC728855, uncharacterized LOC72 | NR_024510, NR | Coding | TRUE |
| uncharacterized LOC728855, uncharacterized LOC72 | NR_024510, NR | Coding | TRUE |
| uncharacterized LOC728855, uncharacterized LOC72 | NR_024510, NR | Coding | TRUE |
| uncharacterized LOC728855, uncharacterized LOC72 | NR_024510, NR | Coding | TRUE |
| uncharacterized LOC728875 | ENST000004117 | Coding | TRUE |
| uncharacterized LOC728875 | ENST000004117 | Coding | TRUE |

| | | | |
|--|-------------------|--------|------|
| uncharacterized LOC728875 | ENST000004117 | Coding | TRUE |
| uncharacterized LOC728875 | ENST000004117 | Coding | TRUE |
| uncharacterized LOC728875 | ENST000004117 | Coding | TRUE |
| uncharacterized LOC728875 | ENST000004117 | Coding | TRUE |
| coiled-coil domain containing 75 | NM_174931, ENS | Coding | TRUE |
| coiled-coil domain containing 75 | NM_174931, ENS | Coding | TRUE |
| coiled-coil domain containing 75 | NM_174931, ENS | Coding | TRUE |
| uncharacterized LOC100507006 | ENST000004513 | Coding | TRUE |
| uncharacterized LOC100507006 | ENST000004513 | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| interleukin 1 receptor, type I | NM_000877, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| ets variant 5 | NM_004454, ENS | Coding | TRUE |
| ets variant 5 | NM_004454, ENS | Coding | TRUE |
| nei endonuclease VIII-like 3 (E. coli) | NM_018248, ENS | Coding | TRUE |
| nei endonuclease VIII-like 3 (E. coli) | NM_018248, ENS | Coding | TRUE |
| nei endonuclease VIII-like 3 (E. coli) | NM_018248, ENS | Coding | TRUE |
| nei endonuclease VIII-like 3 (E. coli) | NM_018248, ENS | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 3 | NM_001242894, ENS | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 3 | NM_001242894, ENS | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 3 | NM_001242894, ENS | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 3 | NM_001242894, ENS | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 3 | NM_001242894, ENS | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 3 | NM_001242894, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 271 | NR_026805, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 271 | NR_026805, ENS | Coding | TRUE |
| long intergenic non-protein coding RNA 271 | NR_026805, ENS | Coding | TRUE |
| family with sequence similarity 83, member H | NM_198488, ENS | Coding | TRUE |
| family with sequence similarity 83, member H | NM_198488, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| annexin A8-like 1, annexin A8 | NM_001098845, ENS | Coding | TRUE |
| uncharacterized LOC100132987 | NR_038985, ENS | Coding | TRUE |
| uncharacterized LOC100132987 | NR_038985, ENS | Coding | TRUE |
| family with sequence similarity 25, member C, family w | NM_001137548, ENS | Coding | TRUE |
| family with sequence similarity 25, member C, family w | NM_001137548, ENS | Coding | TRUE |
| NAD synthetase 1 | NM_018161, ENS | Coding | TRUE |
| NAD synthetase 1 | NM_018161, ENS | Coding | TRUE |
| sarcospan | NM_001135823, ENS | Coding | TRUE |
| sarcospan | NM_001135823, ENS | Coding | TRUE |
| sarcospan | NM_001135823, ENS | Coding | TRUE |
| sarcospan | NM_001135823, ENS | Coding | TRUE |
| sarcospan | NM_001135823, ENS | Coding | TRUE |
| cysteinyl-tRNA synthetase 2, mitochondrial (putative) | NM_024537, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| cysteinyl-tRNA synthetase 2, mitochondrial (putative) | NM_024537, ENS | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| gamma-aminobutyric acid (GABA) B receptor, 1 | NM_001470, NM | Coding | TRUE |
| OTU domain containing 3 | NM_015207, ENS | Coding | TRUE |
| OTU domain containing 3 | NM_015207, ENS | Coding | TRUE |
| dynein, axonemal, light intermediate chain 1 | NM_003462, ENS | Coding | TRUE |
| dynein, axonemal, light intermediate chain 1 | NM_003462, ENS | Coding | TRUE |
| dynein, axonemal, light intermediate chain 1 | NM_003462, ENS | Coding | TRUE |
| CDC42 binding protein kinase alpha (DMPK-like) | NM_003607, NM | Coding | TRUE |
| CDC42 binding protein kinase alpha (DMPK-like) | NM_003607, NM | Coding | TRUE |
| CDC42 binding protein kinase alpha (DMPK-like) | NM_003607, NM | Coding | TRUE |
| CDC42 binding protein kinase alpha (DMPK-like) | NM_003607, NM | Coding | TRUE |
| CDC42 binding protein kinase alpha (DMPK-like) | NM_003607, NM | Coding | TRUE |
| CDC42 binding protein kinase alpha (DMPK-like) | NM_003607, NM | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| G protein-coupled receptor 1 | NM_001098199, | Coding | TRUE |
| guanine nucleotide binding protein (G protein), beta pc | NM_006098, NR | Coding | TRUE |
| guanine nucleotide binding protein (G protein), beta pc | NM_006098, NR | Coding | TRUE |
| guanine nucleotide binding protein (G protein), beta pc | NM_006098, NR | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| discoidin, CUB and LCCL domain containing 1 | NM_173674, ENS | Coding | TRUE |
| tripartite motif containing 24 | NM_003852, NM | Coding | TRUE |
| tripartite motif containing 24 | NM_003852, NM | Coding | TRUE |
| tripartite motif containing 24 | NM_003852, NM | Coding | TRUE |
| oxidation resistance 1 | NM_001198532, | Coding | TRUE |
| oxidation resistance 1 | NM_001198532, | Coding | TRUE |
| oxidation resistance 1 | NM_001198532, | Coding | TRUE |
| oxidation resistance 1 | NM_001198532, | Coding | TRUE |
| F-box protein 32 | NM_001242463, | Coding | TRUE |
| F-box protein 32 | NM_001242463, | Coding | TRUE |
| F-box protein 32 | NM_001242463, | Coding | TRUE |
| F-box protein 32 | NM_001242463, | Coding | TRUE |
| MAM domain containing 4 | NM_206920, ENS | Coding | TRUE |
| MAM domain containing 4 | NM_206920, ENS | Coding | TRUE |
| MAM domain containing 4 | NM_206920, ENS | Coding | TRUE |
| WD repeat domain 44 | NM_001184965, | Coding | TRUE |
| WD repeat domain 44 | NM_001184965, | Coding | TRUE |
| WD repeat domain 44 | NM_001184965, | Coding | TRUE |
| zinc finger, MYM-type 3 | NM_005096, NM | Coding | TRUE |
| zinc finger, MYM-type 3 | NM_005096, NM | Coding | TRUE |
| FTX transcript, XIST regulator (non-protein coding) | NR_028379, ENS | Coding | TRUE |
| FTX transcript, XIST regulator (non-protein coding) | NR_028379, ENS | Coding | TRUE |
| FTX transcript, XIST regulator (non-protein coding) | NR_028379, ENS | Coding | TRUE |
| EPS8-like 2 | NM_022772, BC1 | Coding | TRUE |
| EPS8-like 2 | NM_022772, BC1 | Coding | TRUE |
| lactate dehydrogenase A | NM_001165414, | Coding | TRUE |
| lactate dehydrogenase A | NM_001165414, | Coding | TRUE |
| lactate dehydrogenase A | NM_001165414, | Coding | TRUE |

| | | | |
|---|-------------------------------|--------|------|
| solute carrier family 39 (metal ion transporter), member 1 | NM_001135195 | Coding | TRUE |
| solute carrier family 39 (metal ion transporter), member 1 | NM_001135195 | Coding | TRUE |
| solute carrier family 39 (metal ion transporter), member 1 | NM_001135195 | Coding | TRUE |
| tetratricopeptide repeat domain 9 | NM_015351, ENSG00000181101 | Coding | TRUE |
| tetratricopeptide repeat domain 9 | NM_015351, ENSG00000181101 | Coding | TRUE |
| OTU domain containing 7A pseudogene | NR_038253, NR_038253.1 | Coding | TRUE |
| OTU domain containing 7A pseudogene | NR_038253, NR_038253.1 | Coding | TRUE |
| OTU domain containing 7A pseudogene | NR_038253, NR_038253.1 | Coding | TRUE |
| eukaryotic translation initiation factor 5A | NM_001143760 | Coding | TRUE |
| eukaryotic translation initiation factor 5A | NM_001143760 | Coding | TRUE |
| tumor protein p73 | NM_001126240 | Coding | TRUE |
| tumor protein p73 | NM_001126240 | Coding | TRUE |
| zinc finger and BTB domain containing 17 | NM_001242884 | Coding | TRUE |
| zinc finger and BTB domain containing 17 | NM_001242884 | Coding | TRUE |
| Obg-like ATPase 1 | NM_001011708 | Coding | TRUE |
| Obg-like ATPase 1 | NM_001011708 | Coding | TRUE |
| tumor protein p63 regulated 1, uncharacterized LOC100507193 | NM_198485, ENSG00000200001 | Coding | TRUE |
| tumor protein p63 regulated 1, uncharacterized LOC100507193 | NM_198485, ENSG00000200001 | Coding | TRUE |
| choline dehydrogenase | NM_018397, ENSG0000018397 | Coding | TRUE |
| choline dehydrogenase | NM_018397, ENSG0000018397 | Coding | TRUE |
| choline dehydrogenase | NM_018397, ENSG0000018397 | Coding | TRUE |
| choline dehydrogenase | NM_018397, ENSG0000018397 | Coding | TRUE |
| choline dehydrogenase | NM_018397, ENSG0000018397 | Coding | TRUE |
| chromosome 4 open reading frame 32 | NM_152400, ENSG00000152400 | Coding | TRUE |
| chromosome 4 open reading frame 32 | NM_152400, ENSG00000152400 | Coding | TRUE |
| electron-transferring-flavoprotein dehydrogenase | NM_004453, ENSG0000004453 | Coding | TRUE |
| electron-transferring-flavoprotein dehydrogenase | NM_004453, ENSG0000004453 | Coding | TRUE |
| electron-transferring-flavoprotein dehydrogenase | NM_004453, ENSG0000004453 | Coding | TRUE |
| electron-transferring-flavoprotein dehydrogenase | NM_004453, ENSG0000004453 | Coding | TRUE |
| electron-transferring-flavoprotein dehydrogenase | NM_004453, ENSG0000004453 | Coding | TRUE |
| microtubule associated serine/threonine kinase family 1 | NM_001164664, ENSG00000164664 | Coding | TRUE |
| microtubule associated serine/threonine kinase family 1 | NM_001164664, ENSG00000164664 | Coding | TRUE |
| microtubule associated serine/threonine kinase family 1 | NM_001164664, ENSG00000164664 | Coding | TRUE |
| microtubule associated serine/threonine kinase family 1 | NM_001164664, ENSG00000164664 | Coding | TRUE |
| microtubule associated serine/threonine kinase family 1 | NM_001164664, ENSG00000164664 | Coding | TRUE |
| transmembrane and coiled-coil domains 6 | NM_018502, ENSG0000018502 | Coding | TRUE |
| transmembrane and coiled-coil domains 6 | NM_018502, ENSG0000018502 | Coding | TRUE |
| transmembrane and coiled-coil domains 6 | NM_018502, ENSG0000018502 | Coding | TRUE |
| transmembrane and coiled-coil domains 6 | NM_018502, ENSG0000018502 | Coding | TRUE |
| uncharacterized LOC100507193 | ENST000004869 | Coding | TRUE |
| uncharacterized LOC100507193 | ENST000004869 | Coding | TRUE |
| uncharacterized LOC100507193 | ENST000004869 | Coding | TRUE |
| uncharacterized LOC100507193 | ENST000004869 | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, member 1 | NM_001160130 | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, member 1 | NM_001160130 | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, member 1 | NM_001160130 | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, member 1 | NM_001160130 | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, member 1 | NM_001160130 | Coding | TRUE |
| potassium voltage-gated channel, KQT-like subfamily, member 1 | NM_001160130 | Coding | TRUE |
| coiled-coil domain containing 28A | NM_015439, ENSG0000015439 | Coding | TRUE |
| coiled-coil domain containing 28A | NM_015439, ENSG0000015439 | Coding | TRUE |
| phosphodiesterase 1B, calmodulin-dependent | NM_000924, NM_000924.1 | Coding | TRUE |
| phosphodiesterase 1B, calmodulin-dependent | NM_000924, NM_000924.1 | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 1A | NM_182648, NM_182648.1 | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 1A | NM_182648, NM_182648.1 | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 1A | NM_182648, NM_182648.1 | Coding | TRUE |
| bromodomain adjacent to zinc finger domain, 1A | NM_182648, NM_182648.1 | Coding | TRUE |
| uncharacterized LOC100506157 | ENST000005549 | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| uncharacterized LOC100506157 | ENST000005549 | Coding | TRUE |
| cytochrome P450, family 19, subfamily A, polypeptide | NM_000103, NM | Coding | TRUE |
| cytochrome P450, family 19, subfamily A, polypeptide | NM_000103, NM | Coding | TRUE |
| cytochrome P450, family 19, subfamily A, polypeptide | NM_000103, NM | Coding | TRUE |
| cytochrome P450, family 19, subfamily A, polypeptide | NM_000103, NM | Coding | TRUE |
| KIAA0182 | NM_001134473, | Coding | TRUE |
| KIAA0182 | NM_001134473, | Coding | TRUE |
| KIAA0182 | NM_001134473, | Coding | TRUE |
| KIAA0182 | NM_001134473, | Coding | TRUE |
| KIAA0182 | NM_001134473, | Coding | TRUE |
| KIAA0182 | NM_001134473, | Coding | TRUE |
| small nuclear RNA activating complex, polypeptide 2, 4 | NM_003083, NR | Coding | TRUE |
| small nuclear RNA activating complex, polypeptide 2, 4 | NM_003083, NR | Coding | TRUE |
| hemopoietic cell kinase | NM_001172129, | Coding | TRUE |
| hemopoietic cell kinase | NM_001172129, | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| pre-B-cell leukemia homeobox 2 | NM_002586, BCC | Coding | TRUE |
| chromosome 21 open reading frame 33 | NM_004649, NM | Coding | TRUE |
| chromosome 21 open reading frame 33 | NM_004649, NM | Coding | TRUE |
| chromosome 21 open reading frame 33 | NM_004649, NM | Coding | TRUE |
| guanylate binding protein 1, interferon-inducible pseud | NR_003133, ENS | Coding | TRUE |
| guanylate binding protein 1, interferon-inducible pseud | NR_003133, ENS | Coding | TRUE |
| guanylate binding protein 1, interferon-inducible pseud | NR_003133, ENS | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| prostaglandin E receptor 3 (subtype EP3) | NM_198717, NM | Coding | TRUE |
| glutathione S-transferase mu 2 (muscle) | NM_001142368, | Coding | TRUE |
| glutathione S-transferase mu 2 (muscle) | NM_001142368, | Coding | TRUE |
| glutathione S-transferase mu 2 (muscle) | NM_001142368, | Coding | TRUE |
| raftlin, lipid raft linker 1 | NM_015150, ENS | Coding | TRUE |
| raftlin, lipid raft linker 1 | NM_015150, ENS | Coding | TRUE |
| raftlin, lipid raft linker 1 | NM_015150, ENS | Coding | TRUE |
| raftlin, lipid raft linker 1 | NM_015150, ENS | Coding | TRUE |
| ATPase, class V, type 10D | NM_020453, ENS | Coding | TRUE |
| ATPase, class V, type 10D | NM_020453, ENS | Coding | TRUE |
| ATPase, class V, type 10D | NM_020453, ENS | Coding | TRUE |
| ATPase, class V, type 10D | NM_020453, ENS | Coding | TRUE |
| aryl hydrocarbon receptor | NM_001621, ENS | Coding | TRUE |
| aryl hydrocarbon receptor | NM_001621, ENS | Coding | TRUE |
| COP9 constitutive photomorphogenic homolog subunit | NM_006837, ENS | Coding | TRUE |
| COP9 constitutive photomorphogenic homolog subunit | NM_006837, ENS | Coding | TRUE |
| ATPase, H ⁺ transporting, lysosomal accessory protein | NM_005765, ENS | Coding | TRUE |
| ATPase, H ⁺ transporting, lysosomal accessory protein | NM_005765, ENS | Coding | TRUE |
| GDP dissociation inhibitor 1 | NM_001493, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| multiple EGF-like-domains 10 | NM_032446, ENS | Coding | TRUE |
| multiple EGF-like-domains 10 | NM_032446, ENS | Coding | TRUE |
| multiple EGF-like-domains 10 | NM_032446, ENS | Coding | TRUE |
| multiple EGF-like-domains 10 | NM_032446, ENS | Coding | TRUE |
| multiple EGF-like-domains 10 | NM_032446, ENS | Coding | TRUE |
| multiple EGF-like-domains 10 | NM_032446, ENS | Coding | TRUE |
| embigin | NM_198449, ENS | Coding | TRUE |
| embigin | NM_198449, ENS | Coding | TRUE |
| embigin | NM_198449, ENS | Coding | TRUE |
| Abelson helper integration site 1 | NM_001134830, | Coding | TRUE |
| Abelson helper integration site 1 | NM_001134830, | Coding | TRUE |
| Abelson helper integration site 1 | NM_001134830, | Coding | TRUE |
| distal-less homeobox 6 | NM_005222, ENS | Coding | TRUE |
| distal-less homeobox 6 | NM_005222, ENS | Coding | TRUE |
| distal-less homeobox 6 | NM_005222, ENS | Coding | TRUE |
| distal-less homeobox 6 | NM_005222, ENS | Coding | TRUE |
| distal-less homeobox 6 | NM_005222, ENS | Coding | TRUE |
| distal-less homeobox 6 | NM_005222, ENS | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| solute carrier family 7 (cationic amino acid transporter, | NM_001008539, | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| sushi, von Willebrand factor type A, EGF and pentraxin | NM_153366, ENS | Coding | TRUE |
| family with sequence similarity 129, member B | NM_001035534, | Coding | TRUE |
| family with sequence similarity 129, member B | NM_001035534, | Coding | TRUE |
| family with sequence similarity 129, member B | NM_001035534, | Coding | TRUE |
| family with sequence similarity 129, member B | NM_001035534, | Coding | TRUE |
| family with sequence similarity 129, member B | NM_001035534, | Coding | TRUE |
| NFKB repressing factor | NM_001173488, | Coding | TRUE |
| NFKB repressing factor | NM_001173488, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| nuclear factor of kappa light polypeptide gene enhance | NM_001077493, | Coding | TRUE |
| ankyrin repeat domain 16 | NM_001009941, | Coding | TRUE |
| ankyrin repeat domain 16 | NM_001009941, | Coding | TRUE |
| ankyrin repeat domain 16 | NM_001009941, | Coding | TRUE |
| ankyrin repeat domain 16 | NM_001009941, | Coding | TRUE |
| arginine/serine-rich coiled-coil 2 | NM_023012, NR | Coding | TRUE |
| arginine/serine-rich coiled-coil 2 | NM_023012, NR | Coding | TRUE |
| zinc finger protein 839 | NM_018335, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| zinc finger protein 839 | NM_018335, ENS | Coding | TRUE |
| zinc finger protein 839 | NM_018335, ENS | Coding | TRUE |
| zinc finger protein 839 | NM_018335, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| calcium binding and coiled-coil domain 2 | NM_005831, ENS | Coding | TRUE |
| TGFB-induced factor homeobox 2 | NM_001199513, | Coding | TRUE |
| TGFB-induced factor homeobox 2 | NM_001199513, | Coding | TRUE |
| TGFB-induced factor homeobox 2 | NM_001199513, | Coding | TRUE |
| gamma-glutamyltransferase light chain 2 | NM_199127, BCC | Coding | TRUE |
| gamma-glutamyltransferase light chain 2 | NM_199127, BCC | Coding | TRUE |
| TATA box binding protein (TBP)-associated factor, RNA | NM_001201536, | Coding | TRUE |
| TATA box binding protein (TBP)-associated factor, RNA | NM_001201536, | Coding | TRUE |
| TATA box binding protein (TBP)-associated factor, RNA | NM_001201536, | Coding | TRUE |
| coiled-coil-helix-coiled-coil-helix domain containing 5 | NM_032309, ENS | Coding | TRUE |
| coiled-coil-helix-coiled-coil-helix domain containing 5 | NM_032309, ENS | Coding | TRUE |
| transmembrane BAX inhibitor motif containing 1 | NM_022152, ENS | Coding | TRUE |
| transmembrane BAX inhibitor motif containing 1 | NM_022152, ENS | Coding | TRUE |
| transmembrane BAX inhibitor motif containing 1 | NM_022152, ENS | Coding | TRUE |
| transmembrane BAX inhibitor motif containing 1 | NM_022152, ENS | Coding | TRUE |
| transportin 1 | NM_002270, NM | Coding | TRUE |
| transportin 1 | NM_002270, NM | Coding | TRUE |
| proteasome (prosome, macropain) assembly chaperon | NM_001128591, | Coding | TRUE |
| proteasome (prosome, macropain) assembly chaperon | NM_001128591, | Coding | TRUE |
| proteasome (prosome, macropain) assembly chaperon | NM_001128591, | Coding | TRUE |
| proteasome (prosome, macropain) assembly chaperon | NM_001128591, | Coding | TRUE |
| LEM domain containing 2 | NM_001143944, | Coding | TRUE |
| LEM domain containing 2 | NM_001143944, | Coding | TRUE |
| eukaryotic translation initiation factor 4H | NM_022170, NM | Coding | TRUE |
| eukaryotic translation initiation factor 4H | NM_022170, NM | Coding | TRUE |
| eukaryotic translation initiation factor 4H | NM_022170, NM | Coding | TRUE |
| eukaryotic translation initiation factor 4H | NM_022170, NM | Coding | TRUE |
| ribosomal protein S20, small nucleolar RNA, C/D box 4 | NM_001023, NM | Coding | TRUE |
| ribosomal protein S20, small nucleolar RNA, C/D box 4 | NM_001023, NM | Coding | TRUE |
| syntaxin 17 | NM_017919, ENS | Coding | TRUE |
| syntaxin 17 | NM_017919, ENS | Coding | TRUE |
| syntaxin 17 | NM_017919, ENS | Coding | TRUE |
| syntaxin 17 | NM_017919, ENS | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| Rho-related BTB domain containing 1 | NM_001242359, | Coding | TRUE |
| SET binding factor 2 | NM_030962, ENS | Coding | TRUE |

| | | | |
|--|--------------------|--------|------|
| SET binding factor 2 | NM_030962, ENS | Coding | TRUE |
| SET binding factor 2 | NM_030962, ENS | Coding | TRUE |
| ubiquitin specific peptidase 28 | NM_020886, ENS | Coding | TRUE |
| ubiquitin specific peptidase 28 | NM_020886, ENS | Coding | TRUE |
| ubiquitin specific peptidase 28 | NM_020886, ENS | Coding | TRUE |
| ubiquitin specific peptidase 28 | NM_020886, ENS | Coding | TRUE |
| protein kinase, AMP-activated, beta 1 non-catalytic subunit | NM_006253, ENS | Coding | TRUE |
| protein kinase, AMP-activated, beta 1 non-catalytic subunit | NM_006253, ENS | Coding | TRUE |
| myosin, light chain 6B, alkali, smooth muscle and non-muscle | NM_001199629, ENS | Coding | TRUE |
| myosin, light chain 6B, alkali, smooth muscle and non-muscle | NM_001199629, ENS | Coding | TRUE |
| unc-51-like kinase 4 (C. elegans) pseudogene 1 | ENST000003215, ENS | Coding | TRUE |
| unc-51-like kinase 4 (C. elegans) pseudogene 1 | ENST000003215, ENS | Coding | TRUE |
| unc-51-like kinase 4 (C. elegans) pseudogene 1 | ENST000003215, ENS | Coding | TRUE |
| unc-51-like kinase 4 (C. elegans) pseudogene 1 | ENST000003215, ENS | Coding | TRUE |
| KIAA0100 | NM_014680, ENS | Coding | TRUE |
| KIAA0100 | NM_014680, ENS | Coding | TRUE |
| RAB34, member RAS oncogene family, nine-amino acid motif | NM_001144943, ENS | Coding | TRUE |
| RAB34, member RAS oncogene family, nine-amino acid motif | NM_001144943, ENS | Coding | TRUE |
| RAB34, member RAS oncogene family, nine-amino acid motif | NM_001144943, ENS | Coding | TRUE |
| RAB34, member RAS oncogene family, nine-amino acid motif | NM_001144943, ENS | Coding | TRUE |
| zinc finger protein 224 | NM_013398, ENS | Coding | TRUE |
| zinc finger protein 224 | NM_013398, ENS | Coding | TRUE |
| zinc finger protein 224 | NM_013398, ENS | Coding | TRUE |
| pericentrin | NM_006031, ENS | Coding | TRUE |
| pericentrin | NM_006031, ENS | Coding | TRUE |
| pericentrin | NM_006031, ENS | Coding | TRUE |
| cat eye syndrome chromosome region, candidate 5 | NM_017829, NM | Coding | TRUE |
| cat eye syndrome chromosome region, candidate 5 | NM_017829, NM | Coding | TRUE |
| cat eye syndrome chromosome region, candidate 5 | NM_017829, NM | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, BC1 | Coding | TRUE |
| long intergenic non-protein coding RNA 266-1 | BC122537, ENST | Coding | TRUE |
| long intergenic non-protein coding RNA 266-1 | BC122537, ENST | Coding | TRUE |
| mindbomb E3 ubiquitin protein ligase 2 | NM_080875, NM | Coding | TRUE |
| mindbomb E3 ubiquitin protein ligase 2 | NM_080875, NM | Coding | TRUE |
| mindbomb E3 ubiquitin protein ligase 2 | NM_080875, NM | Coding | TRUE |
| mindbomb E3 ubiquitin protein ligase 2 | NM_080875, NM | Coding | TRUE |
| mindbomb E3 ubiquitin protein ligase 2 | NM_080875, NM | Coding | TRUE |
| ubiquitin specific peptidase 1 | NM_001017415, ENS | Coding | TRUE |
| ubiquitin specific peptidase 1 | NM_001017415, ENS | Coding | TRUE |
| ubiquitin specific peptidase 1 | NM_001017415, ENS | Coding | TRUE |
| guanylate binding protein 1, interferon-inducible | NM_002053, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| guanylate binding protein 1, interferon-inducible | NM_002053, ENS | Coding | TRUE |
| guanylate binding protein 1, interferon-inducible | NM_002053, ENS | Coding | TRUE |
| guanylate binding protein 1, interferon-inducible | NM_002053, ENS | Coding | TRUE |
| uncharacterized LOC149351 | ENST000004556 | Coding | TRUE |
| uncharacterized LOC149351 | ENST000004556 | Coding | TRUE |
| chromosome 2 open reading frame 27A | NM_013310, ENS | Coding | TRUE |
| chromosome 2 open reading frame 27A | NM_013310, ENS | Coding | TRUE |
| chromosome 2 open reading frame 27A | NM_013310, ENS | Coding | TRUE |
| chromosome 2 open reading frame 27A | NM_013310, ENS | Coding | TRUE |
| chromosome 2 open reading frame 27A | NM_013310, ENS | Coding | TRUE |
| NIF3 NGG1 interacting factor 3-like 1 (S. cerevisiae) | NM_001136039, | Coding | TRUE |
| NIF3 NGG1 interacting factor 3-like 1 (S. cerevisiae) | NM_001136039, | Coding | TRUE |
| excision repair cross-complementing rodent repair defi | NM_000122, ENS | Coding | TRUE |
| excision repair cross-complementing rodent repair defi | NM_000122, ENS | Coding | TRUE |
| excision repair cross-complementing rodent repair defi | NM_000122, ENS | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| LIM and senescent cell antigen-like domains 2 | NM_001136037, | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 13 | NM_015268, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 13 | NM_015268, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 13 | NM_015268, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 13 | NM_015268, ENS | Coding | TRUE |
| phosphoribosyl pyrophosphate amidotransferase | NM_002703, ENS | Coding | TRUE |
| phosphoribosyl pyrophosphate amidotransferase | NM_002703, ENS | Coding | TRUE |
| phosphoribosyl pyrophosphate amidotransferase | NM_002703, ENS | Coding | TRUE |
| phosphoribosyl pyrophosphate amidotransferase | NM_002703, ENS | Coding | TRUE |
| PHD finger protein 1 | NM_002636, NM | Coding | TRUE |
| PHD finger protein 1 | NM_002636, NM | Coding | TRUE |
| microRNA 1236, RD RNA binding protein | NR_031601, NM | Coding | TRUE |
| microRNA 1236, RD RNA binding protein | NR_031601, NM | Coding | TRUE |
| SRSF protein kinase 1 | NM_003137, NR | Coding | TRUE |
| SRSF protein kinase 1 | NM_003137, NR | Coding | TRUE |
| SRSF protein kinase 1 | NM_003137, NR | Coding | TRUE |
| myosin, light chain 10, regulatory | NM_138403, BCC | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| myosin, light chain 10, regulatory | NM_138403, BCC | Coding | TRUE |
| myosin, light chain 10, regulatory | NM_138403, BCC | Coding | TRUE |
| myosin, light chain 10, regulatory | NM_138403, BCC | Coding | TRUE |
| COBW domain containing 7 | ENST000004665 | Coding | TRUE |
| COBW domain containing 7 | ENST000004665 | Coding | TRUE |
| COBW domain containing 7 | ENST000004665 | Coding | TRUE |
| COBW domain containing 7 | ENST000004665 | Coding | TRUE |
| COBW domain containing 7 | ENST000004665 | Coding | TRUE |
| COBW domain containing 7 | ENST000004665 | Coding | TRUE |
| golgin A2 | NM_004486, ENS | Coding | TRUE |
| golgin A2 | NM_004486, ENS | Coding | TRUE |
| lysine (K)-specific demethylase 5C | NM_001146702, | Coding | TRUE |
| lysine (K)-specific demethylase 5C | NM_001146702, | Coding | TRUE |
| lysine (K)-specific demethylase 5C | NM_001146702, | Coding | TRUE |
| ER lipid raft associated 1 | NM_001100626, | Coding | TRUE |
| ER lipid raft associated 1 | NM_001100626, | Coding | TRUE |
| D-amino-acid oxidase | NM_001917, ENS | Coding | TRUE |
| D-amino-acid oxidase | NM_001917, ENS | Coding | TRUE |
| lysine (K)-specific demethylase 5A | NM_001042603, | Coding | TRUE |
| lysine (K)-specific demethylase 5A | NM_001042603, | Coding | TRUE |
| lysine (K)-specific demethylase 5A | NM_001042603, | Coding | TRUE |
| lysine (K)-specific demethylase 5A | NM_001042603, | Coding | TRUE |
| SNW domain containing 1 | NM_012245, ENS | Coding | TRUE |
| SNW domain containing 1 | NM_012245, ENS | Coding | TRUE |
| SNW domain containing 1 | NM_012245, ENS | Coding | TRUE |
| carboxylesterase 2 | NM_003869, NM | Coding | TRUE |
| carboxylesterase 2 | NM_003869, NM | Coding | TRUE |
| differential display clone 8, TIMP metalloproteinase inhibitor 1 | NM_001243540, | Coding | TRUE |
| differential display clone 8, TIMP metalloproteinase inhibitor 1 | NM_001243540, | Coding | TRUE |
| transmembrane protein 241 | NM_032933, ENS | Coding | TRUE |
| transmembrane protein 241 | NM_032933, ENS | Coding | TRUE |
| transmembrane protein 241 | NM_032933, ENS | Coding | TRUE |
| transmembrane protein 241 | NM_032933, ENS | Coding | TRUE |
| CD40 molecule, TNF receptor superfamily member 5 | NM_001250, NM | Coding | TRUE |
| CD40 molecule, TNF receptor superfamily member 5 | NM_001250, NM | Coding | TRUE |
| CD40 molecule, TNF receptor superfamily member 5 | NM_001250, NM | Coding | TRUE |
| CD40 molecule, TNF receptor superfamily member 5 | NM_001250, NM | Coding | TRUE |
| CD40 molecule, TNF receptor superfamily member 5 | NM_001250, NM | Coding | TRUE |
| CD40 molecule, TNF receptor superfamily member 5 | NM_001250, NM | Coding | TRUE |
| docking protein 5 | NM_018431, BCC | Coding | TRUE |
| docking protein 5 | NM_018431, BCC | Coding | TRUE |
| docking protein 5 | NM_018431, BCC | Coding | TRUE |
| MAFF interacting protein, tektin 4 pseudogene 2 | NM_001190825, | Coding | TRUE |
| MAFF interacting protein, tektin 4 pseudogene 2 | NM_001190825, | Coding | TRUE |
| PHD finger protein 1 | NM_002636, NM | Coding | TRUE |
| PHD finger protein 1 | NM_002636, NM | Coding | TRUE |
| family with sequence similarity 91, member A2, uncharacterized | NR_046135, NR | Coding | TRUE |
| family with sequence similarity 91, member A2, uncharacterized | NR_046135, NR | Coding | TRUE |
| family with sequence similarity 91, member A2, uncharacterized | NR_046135, NR | Coding | TRUE |
| chromodomain helicase DNA binding protein 5 | NM_015557, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 5 | NM_015557, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 5 | NM_015557, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 5 | NM_015557, ENS | Coding | TRUE |
| EBNA1 binding protein 2 | NM_001159936, | Coding | TRUE |
| EBNA1 binding protein 2 | NM_001159936, | Coding | TRUE |
| EBNA1 binding protein 2 | NM_001159936, | Coding | TRUE |
| v-akt murine thymoma viral oncogene homolog 3 (protein) | NM_001206729, | Coding | TRUE |
| v-akt murine thymoma viral oncogene homolog 3 (protein) | NM_001206729, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| v-akt murine thymoma viral oncogene homolog 3 (prot | NM_001206729, | Coding | TRUE |
| RAB, member of RAS oncogene family-like 2A | NM_007082, NM | Coding | TRUE |
| RAB, member of RAS oncogene family-like 2A | NM_007082, NM | Coding | TRUE |
| RAB, member of RAS oncogene family-like 2A | NM_007082, NM | Coding | TRUE |
| RAB, member of RAS oncogene family-like 2A | NM_007082, NM | Coding | TRUE |
| LY6/PLAUR domain containing 6B | NM_177964, ENS | Coding | TRUE |
| LY6/PLAUR domain containing 6B | NM_177964, ENS | Coding | TRUE |
| LY6/PLAUR domain containing 6B | NM_177964, ENS | Coding | TRUE |
| LY6/PLAUR domain containing 6B | NM_177964, ENS | Coding | TRUE |
| K(lysine) acetyltransferase 2B | NM_003884, ENS | Coding | TRUE |
| K(lysine) acetyltransferase 2B | NM_003884, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| ABI family, member 3 (NESH) binding protein | NM_015429, ENS | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| KIAA1456 | NM_001099677, | Coding | TRUE |
| zinc finger protein 618 | NM_133374, ENS | Coding | TRUE |
| zinc finger protein 618 | NM_133374, ENS | Coding | TRUE |
| SH3-domain GRB2-like endophilin B2 | NM_020145, ENS | Coding | TRUE |
| SH3-domain GRB2-like endophilin B2 | NM_020145, ENS | Coding | TRUE |
| nuclear receptor subfamily 1, group H, member 3 | NM_001130101, | Coding | TRUE |
| nuclear receptor subfamily 1, group H, member 3 | NM_001130101, | Coding | TRUE |
| nuclear receptor subfamily 1, group H, member 3 | NM_001130101, | Coding | TRUE |
| nuclear receptor subfamily 1, group H, member 3 | NM_001130101, | Coding | TRUE |
| nuclear receptor subfamily 1, group H, member 3 | NM_001130101, | Coding | TRUE |
| pyruvate carboxylase | NM_001040716, | Coding | TRUE |
| pyruvate carboxylase | NM_001040716, | Coding | TRUE |
| pyruvate carboxylase | NM_001040716, | Coding | TRUE |
| pyruvate carboxylase | NM_001040716, | Coding | TRUE |
| pyruvate carboxylase | NM_001040716, | Coding | TRUE |
| pyruvate carboxylase | NM_001040716, | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 1 | NM_001202233, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| nuclear receptor subfamily 4, group A, member 1 | NM_001202233, | Coding | TRUE |
| nuclear receptor subfamily 4, group A, member 1 | NM_001202233, | Coding | TRUE |
| GCN1 general control of amino-acid synthesis 1-like 1 | NM_006836, ENS | Coding | TRUE |
| GCN1 general control of amino-acid synthesis 1-like 1 | NM_006836, ENS | Coding | TRUE |
| GCN1 general control of amino-acid synthesis 1-like 1 | NM_006836, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| talin 2 | NM_015059, ENS | Coding | TRUE |
| golgin A8 family, member G, golgin A8 family, member | ENST000005248 | Coding | TRUE |
| golgin A8 family, member G, golgin A8 family, member | ENST000005248 | Coding | TRUE |
| zinc finger protein 720 | NM_001130913, | Coding | TRUE |
| zinc finger protein 720 | NM_001130913, | Coding | TRUE |
| zinc finger protein 720 | NM_001130913, | Coding | TRUE |
| Snf2-related CREBBP activator protein | NM_006662, ENS | Coding | TRUE |
| Snf2-related CREBBP activator protein | NM_006662, ENS | Coding | TRUE |
| Snf2-related CREBBP activator protein | NM_006662, ENS | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| uncharacterized serine/threonine-protein kinase SgK4 | NM_001174103, | Coding | TRUE |
| sodium channel, voltage-gated, type I, beta subunit | NM_001037, NM | Coding | TRUE |
| sodium channel, voltage-gated, type I, beta subunit | NM_001037, NM | Coding | TRUE |
| sodium channel, voltage-gated, type I, beta subunit | NM_001037, NM | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| cartilage oligomeric matrix protein | NM_000095, ENS | Coding | TRUE |
| peptidyl arginine deiminase, type IV | NM_012387, ENS | Coding | TRUE |
| peptidyl arginine deiminase, type IV | NM_012387, ENS | Coding | TRUE |
| kinesin family member 17 | NM_001122819, | Coding | TRUE |
| kinesin family member 17 | NM_001122819, | Coding | TRUE |
| kinesin family member 17 | NM_001122819, | Coding | TRUE |
| kinesin family member 17 | NM_001122819, | Coding | TRUE |
| protein disulfide isomerase family A, member 5 | NM_006810, NR | Coding | TRUE |
| protein disulfide isomerase family A, member 5 | NM_006810, NR | Coding | TRUE |
| protein disulfide isomerase family A, member 5 | NM_006810, NR | Coding | TRUE |
| uncharacterized LOC100507602 | ENST000004332 | Coding | TRUE |
| uncharacterized LOC100507602 | ENST000004332 | Coding | TRUE |
| eukaryotic translation initiation factor 3, subunit B | NM_001037283, | Coding | TRUE |
| eukaryotic translation initiation factor 3, subunit B | NM_001037283, | Coding | TRUE |
| eukaryotic translation initiation factor 3, subunit B | NM_001037283, | Coding | TRUE |
| eukaryotic translation initiation factor 3, subunit B | NM_001037283, | Coding | TRUE |
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |
| family with sequence similarity 167, member A | NM_053279, ENS | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| clusterin | NM_001831, NR | Coding | TRUE |
| cleavage stimulation factor, 3 pre-RNA, subunit 3, 77k | NM_001033505, | Coding | TRUE |
| cleavage stimulation factor, 3 pre-RNA, subunit 3, 77k | NM_001033505, | Coding | TRUE |
| cleavage stimulation factor, 3 pre-RNA, subunit 3, 77k | NM_001033505, | Coding | TRUE |
| cleavage stimulation factor, 3 pre-RNA, subunit 3, 77k | NM_001033505, | Coding | TRUE |
| cleavage stimulation factor, 3 pre-RNA, subunit 3, 77k | NM_001033505, | Coding | TRUE |
| cleavage stimulation factor, 3 pre-RNA, subunit 3, 77k | NM_001033505, | Coding | TRUE |
| pleckstrin homology domain containing, family A mem | NM_001143821, | Coding | TRUE |
| pleckstrin homology domain containing, family A mem | NM_001143821, | Coding | TRUE |
| pleckstrin homology domain containing, family A mem | NM_001143821, | Coding | TRUE |
| pleckstrin homology domain containing, family A mem | NM_001143821, | Coding | TRUE |
| C-type lectin domain family 2, member D | NM_001004419, | Coding | TRUE |
| C-type lectin domain family 2, member D | NM_001004419, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| neurexin 3 | NM_001105250, | Coding | TRUE |
| maternally expressed 3 (non-protein coding) | NR_033360, NR | Coding | TRUE |
| maternally expressed 3 (non-protein coding) | NR_033360, NR | Coding | TRUE |
| maternally expressed 3 (non-protein coding) | NR_033360, NR | Coding | TRUE |
| maternally expressed 3 (non-protein coding) | NR_033360, NR | Coding | TRUE |
| integrin, alpha E (antigen CD103, human mucosal lym | NM_002208, ENS | Coding | TRUE |
| integrin, alpha E (antigen CD103, human mucosal lym | NM_002208, ENS | Coding | TRUE |
| transmembrane protein 107, small nucleolar RNA, C/D | NM_032354, NM | Coding | TRUE |
| transmembrane protein 107, small nucleolar RNA, C/D | NM_032354, NM | Coding | TRUE |
| serine/threonine kinase 4 | NM_006282, ENS | Coding | TRUE |
| serine/threonine kinase 4 | NM_006282, ENS | Coding | TRUE |
| serine/threonine kinase 4 | NM_006282, ENS | Coding | TRUE |
| serine/threonine kinase 4 | NM_006282, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| death associated protein 3 | NM_001199849, I | Coding | TRUE |
| death associated protein 3 | NM_001199849, I | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| phospholipid transfer protein | NM_001242920, | Coding | TRUE |
| phospholipid transfer protein | NM_001242920, | Coding | TRUE |
| phospholipid transfer protein | NM_001242920, | Coding | TRUE |
| chromosome 21 open reading frame 59 | NM_021254, NR_ | Coding | TRUE |
| chromosome 21 open reading frame 59 | NM_021254, NR_ | Coding | TRUE |
| zinc finger protein 84 | NM_001127372, | Coding | TRUE |
| zinc finger protein 84 | NM_001127372, | Coding | TRUE |
| DNA fragmentation factor, 40kDa, beta polypeptide (ca | NM_004402, ENS | Coding | TRUE |
| DNA fragmentation factor, 40kDa, beta polypeptide (ca | NM_004402, ENS | Coding | TRUE |
| transcription termination factor, RNA polymerase II | NM_003594, ENS | Coding | TRUE |
| transcription termination factor, RNA polymerase II | NM_003594, ENS | Coding | TRUE |
| transcription termination factor, RNA polymerase II | NM_003594, ENS | Coding | TRUE |
| transcription termination factor, RNA polymerase II | NM_003594, ENS | Coding | TRUE |
| fatty acid binding protein 3, muscle and heart (mamma | NM_004102, BCC | Coding | TRUE |
| fatty acid binding protein 3, muscle and heart (mamma | NM_004102, BCC | Coding | TRUE |
| fatty acid binding protein 3, muscle and heart (mamma | NM_004102, BCC | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| thyroid adenoma associated | NM_022065, NM_ | Coding | TRUE |
| fragile X mental retardation, autosomal homolog 1 | NM_001013438, | Coding | TRUE |
| fragile X mental retardation, autosomal homolog 1 | NM_001013438, | Coding | TRUE |
| fragile X mental retardation, autosomal homolog 1 | NM_001013438, | Coding | TRUE |
| fragile X mental retardation, autosomal homolog 1 | NM_001013438, | Coding | TRUE |
| GTPase activating protein (SH3 domain) binding prote | NM_012297, NM_ | Coding | TRUE |
| GTPase activating protein (SH3 domain) binding prote | NM_012297, NM_ | Coding | TRUE |
| growth hormone receptor | NM_000163, NM_ | Coding | TRUE |
| growth hormone receptor | NM_000163, NM_ | Coding | TRUE |
| growth hormone receptor | NM_000163, NM_ | Coding | TRUE |
| growth hormone receptor | NM_000163, NM_ | Coding | TRUE |
| growth hormone receptor | NM_000163, NM_ | Coding | TRUE |
| zinc finger, DHHC-type containing 11 | NM_024786, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 11 | NM_024786, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 11 | NM_024786, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 11 | NM_024786, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 11 | NM_024786, ENS | Coding | TRUE |
| zinc finger, DHHC-type containing 11 | NM_024786, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| Williams Beuren syndrome chromosome region 27 | NM_152559, ENS | Coding | TRUE |
| Williams Beuren syndrome chromosome region 27 | NM_152559, ENS | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| glycerol-3-phosphate acyltransferase, mitochondrial | NM_001244949, | Coding | TRUE |
| tetratricopeptide repeat domain 17 | NM_018259, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 17 | NM_018259, ENS | Coding | TRUE |
| tetratricopeptide repeat domain 17 | NM_018259, ENS | Coding | TRUE |
| phosphodiesterase 3A, cGMP-inhibited | NM_000921, NM_ | Coding | TRUE |
| phosphodiesterase 3A, cGMP-inhibited | NM_000921, NM_ | Coding | TRUE |
| autophagy related 2B | NM_018036, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| ADP-ribosylarginine hydrolase | NM_001125, BCC | Coding | TRUE |
| PDZ domain containing ring finger 3 | NM_015009, ENS | Coding | TRUE |
| PDZ domain containing ring finger 3 | NM_015009, ENS | Coding | TRUE |
| PDZ domain containing ring finger 3 | NM_015009, ENS | Coding | TRUE |
| PWWP domain containing 2A | NM_001130864, | Coding | TRUE |
| PWWP domain containing 2A | NM_001130864, | Coding | TRUE |
| deltex homolog 2 (Drosophila), protein deltex-2-like | NM_001102594, | Coding | TRUE |
| deltex homolog 2 (Drosophila), protein deltex-2-like | NM_001102594, | Coding | TRUE |
| deltex homolog 2 (Drosophila), protein deltex-2-like | NM_001102594, | Coding | TRUE |
| deltex homolog 2 (Drosophila), protein deltex-2-like | NM_001102594, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ankyrin 1, erythrocytic | NM_000037, NM, | Coding | TRUE |
| ribosomal protein L36a, RPL36A-HNRNPH2 readthrou | NM_001199972, | Coding | TRUE |
| ribosomal protein L36a, RPL36A-HNRNPH2 readthrou | NM_001199972, | Coding | TRUE |
| ribosomal protein L36a, RPL36A-HNRNPH2 readthrou | NM_001199972, | Coding | TRUE |
| transforming, acidic coiled-coil containing protein 2 | NM_006997, NM, | Coding | TRUE |
| transforming, acidic coiled-coil containing protein 2 | NM_006997, NM, | Coding | TRUE |
| transforming, acidic coiled-coil containing protein 2 | NM_006997, NM, | Coding | TRUE |
| solute carrier family 16, member 9 (monocarboxylic ac | NM_194298, ENS | Coding | TRUE |
| solute carrier family 16, member 9 (monocarboxylic ac | NM_194298, ENS | Coding | TRUE |
| PR domain containing 10 | NM_020228, NM, | Coding | TRUE |
| PR domain containing 10 | NM_020228, NM, | Coding | TRUE |
| PR domain containing 10 | NM_020228, NM, | Coding | TRUE |
| PR domain containing 10 | NM_020228, NM, | Coding | TRUE |
| growth arrest-specific 2 like 3 | NM_174942, ENS | Coding | TRUE |
| growth arrest-specific 2 like 3 | NM_174942, ENS | Coding | TRUE |
| 2-5-oligoadenylate synthetase 3, 100kDa | NM_006187, ENS | Coding | TRUE |
| 2-5-oligoadenylate synthetase 3, 100kDa | NM_006187, ENS | Coding | TRUE |
| 2-5-oligoadenylate synthetase 3, 100kDa | NM_006187, ENS | Coding | TRUE |
| 2-5-oligoadenylate synthetase 3, 100kDa | NM_006187, ENS | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| solute carrier family 38, member 4 | NM_001143824, | Coding | TRUE |
| discs, large (Drosophila) homolog-associated protein 5 | NM_001146015, | Coding | TRUE |
| discs, large (Drosophila) homolog-associated protein 5 | NM_001146015, | Coding | TRUE |
| discs, large (Drosophila) homolog-associated protein 5 | NM_001146015, | Coding | TRUE |
| discs, large (Drosophila) homolog-associated protein 5 | NM_001146015, | Coding | TRUE |
| discs, large (Drosophila) homolog-associated protein 5 | NM_001146015, | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 2 | NM_001012981, | Coding | TRUE |
| zinc finger with KRAB and SCAN domains 2 | NM_001012981, | Coding | TRUE |
| WD repeat and SOCS box containing 1 | NM_015626, NM, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| centrosomal protein 70kDa | NM_024491, ENS | Coding | TRUE |
| centrosomal protein 70kDa | NM_024491, ENS | Coding | TRUE |
| centrosomal protein 70kDa | NM_024491, ENS | Coding | TRUE |
| WW and C2 domain containing 2, claudin 22 | NM_024949, ENS | Coding | TRUE |
| WW and C2 domain containing 2, claudin 22 | NM_024949, ENS | Coding | TRUE |
| oncostatin M receptor | NM_003999, NM | Coding | TRUE |
| oncostatin M receptor | NM_003999, NM | Coding | TRUE |
| oncostatin M receptor | NM_003999, NM | Coding | TRUE |
| oncostatin M receptor | NM_003999, NM | Coding | TRUE |
| chromosome 5 open reading frame 34 | NM_198566, ENS | Coding | TRUE |
| chromosome 5 open reading frame 34 | NM_198566, ENS | Coding | TRUE |
| chromosome 5 open reading frame 34 | NM_198566, ENS | Coding | TRUE |
| TM2 domain containing 2 | NM_001024380, | Coding | TRUE |
| TM2 domain containing 2 | NM_001024380, | Coding | TRUE |
| TM2 domain containing 2 | NM_001024380, | Coding | TRUE |
| astrotactin 2 | NM_001184734, | Coding | TRUE |
| astrotactin 2 | NM_001184734, | Coding | TRUE |
| astrotactin 2 | NM_001184734, | Coding | TRUE |
| WNK lysine deficient protein kinase 3 | NM_001002838, | Coding | TRUE |
| WNK lysine deficient protein kinase 3 | NM_001002838, | Coding | TRUE |
| WNK lysine deficient protein kinase 3 | NM_001002838, | Coding | TRUE |
| WNK lysine deficient protein kinase 3 | NM_001002838, | Coding | TRUE |
| WNK lysine deficient protein kinase 3 | NM_001002838, | Coding | TRUE |
| neural cell adhesion molecule 1 | NM_000615, NM | Coding | TRUE |
| neural cell adhesion molecule 1 | NM_000615, NM | Coding | TRUE |
| neural cell adhesion molecule 1 | NM_000615, NM | Coding | TRUE |
| neural cell adhesion molecule 1 | NM_000615, NM | Coding | TRUE |
| Ral GTPase activating protein, alpha subunit 1 (cataly | NM_014990, NM | Coding | TRUE |
| Ral GTPase activating protein, alpha subunit 1 (cataly | NM_014990, NM | Coding | TRUE |
| Ral GTPase activating protein, alpha subunit 1 (cataly | NM_014990, NM | Coding | TRUE |
| Ral GTPase activating protein, alpha subunit 1 (cataly | NM_014990, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 2 | NM_000428, ENS | Coding | TRUE |
| latent transforming growth factor beta binding protein 2 | NM_000428, ENS | Coding | TRUE |
| SET domain containing 3 | NM_032233, NM | Coding | TRUE |
| SET domain containing 3 | NM_032233, NM | Coding | TRUE |
| aquarius homolog (mouse) | NM_014691, ENS | Coding | TRUE |
| aquarius homolog (mouse) | NM_014691, ENS | Coding | TRUE |
| tripartite motif containing 25, microRNA 3614 | NM_005082, NR | Coding | TRUE |
| tripartite motif containing 25, microRNA 3614 | NM_005082, NR | Coding | TRUE |
| tripartite motif containing 25, microRNA 3614 | NM_005082, NR | Coding | TRUE |
| eukaryotic translation initiation factor 4A3 | NM_014740, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 4A3 | NM_014740, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 4A3 | NM_014740, ENS | Coding | TRUE |
| zinc finger protein 433 | NM_001080411, | Coding | TRUE |
| zinc finger protein 433 | NM_001080411, | Coding | TRUE |
| glutaminyl-peptide cyclotransferase-like | NM_001163377, | Coding | TRUE |
| glutaminyl-peptide cyclotransferase-like | NM_001163377, | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 1E | NM_001066, NR | Coding | TRUE |
| tumor necrosis factor receptor superfamily, member 1E | NM_001066, NR | Coding | TRUE |
| solute carrier family 35 (UDP-glucuronic acid/UDP-N-a | NM_015139, ENS | Coding | TRUE |
| solute carrier family 35 (UDP-glucuronic acid/UDP-N-a | NM_015139, ENS | Coding | TRUE |
| Ellis van Creveld syndrome 2 | NM_001166136, | Coding | TRUE |
| Ellis van Creveld syndrome 2 | NM_001166136, | Coding | TRUE |
| Ellis van Creveld syndrome 2 | NM_001166136, | Coding | TRUE |
| Ellis van Creveld syndrome 2 | NM_001166136, | Coding | TRUE |
| protein phosphatase, Mg2+/Mn2+ dependent, 1K | NM_152542, ENS | Coding | TRUE |
| protein phosphatase, Mg2+/Mn2+ dependent, 1K | NM_152542, ENS | Coding | TRUE |
| protein phosphatase, Mg2+/Mn2+ dependent, 1K | NM_152542, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| major facilitator superfamily domain containing 2A | NM_001136493, | Coding | TRUE |
| REV1, polymerase (DNA directed) | NM_001037872, | Coding | TRUE |
| REV1, polymerase (DNA directed) | NM_001037872, | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| solute carrier family 25 (aspartate/glutamate carrier), n | NM_003705, ENS | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| sarcoglycan, delta (35kDa dystrophin-associated glyco | NM_000337, NM | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| zinc finger and SCAN domain containing 23 | NM_001012455, | Coding | TRUE |
| uncharacterized LOC441204 | NR_015364 | Coding | TRUE |
| uncharacterized LOC441204 | NR_015364 | Coding | TRUE |
| EGF-like-domain, multiple 7 | NM_016215, NM | Coding | TRUE |
| EGF-like-domain, multiple 7 | NM_016215, NM | Coding | TRUE |
| EGF-like-domain, multiple 7 | NM_016215, NM | Coding | TRUE |
| EGF-like-domain, multiple 7 | NM_016215, NM | Coding | TRUE |
| EGF-like-domain, multiple 7 | NM_016215, NM | Coding | TRUE |
| Xg blood group, Xg pseudogene, Y-linked 2 | NM_001141919, | Coding | TRUE |
| Xg blood group, Xg pseudogene, Y-linked 2 | NM_001141919, | Coding | TRUE |
| Xg blood group, Xg pseudogene, Y-linked 2 | NM_001141919, | Coding | TRUE |
| membrane-bound transcription factor peptidase, site 2 | NM_015884, ENS | Coding | TRUE |
| membrane-bound transcription factor peptidase, site 2 | NM_015884, ENS | Coding | TRUE |
| synuclein, gamma (breast cancer-specific protein 1) | NM_003087, ENS | Coding | TRUE |
| synuclein, gamma (breast cancer-specific protein 1) | NM_003087, ENS | Coding | TRUE |
| synuclein, gamma (breast cancer-specific protein 1) | NM_003087, ENS | Coding | TRUE |
| synuclein, gamma (breast cancer-specific protein 1) | NM_003087, ENS | Coding | TRUE |
| C2CD2-like | NM_014807, ENS | Coding | TRUE |
| C2CD2-like | NM_014807, ENS | Coding | TRUE |
| cytoskeleton associated protein 2 | NM_001098525, | Coding | TRUE |
| cytoskeleton associated protein 2 | NM_001098525, | Coding | TRUE |
| cytoskeleton associated protein 2 | NM_001098525, | Coding | TRUE |
| cytoskeleton associated protein 2 | NM_001098525, | Coding | TRUE |
| WAS protein homolog associated with actin, golgi men | NM_001080435, | Coding | TRUE |
| WAS protein homolog associated with actin, golgi men | NM_001080435, | Coding | TRUE |
| polycystic kidney disease 1-like 2 | NM_001076780, | Coding | TRUE |
| polycystic kidney disease 1-like 2 | NM_001076780, | Coding | TRUE |
| polycystic kidney disease 1-like 2 | NM_001076780, | Coding | TRUE |
| erythropoietin receptor | NM_000121, NR | Coding | TRUE |
| erythropoietin receptor | NM_000121, NR | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| adenosine deaminase, RNA-specific, B1 | NM_015833, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| DNA cross-link repair 1C | NM_001033855, | Coding | TRUE |
| DNA cross-link repair 1C | NM_001033855, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 43 | NM_001043318, | Coding | TRUE |
| chromosome 14 open reading frame 178 | NM_001173978, | Coding | TRUE |
| chromosome 14 open reading frame 178 | NM_001173978, | Coding | TRUE |
| tRNA-yW synthesizing protein 3 homolog (S. cerevisia | NM_001162916, | Coding | TRUE |
| tRNA-yW synthesizing protein 3 homolog (S. cerevisia | NM_001162916, | Coding | TRUE |
| peroxidasin homolog (Drosophila) | NM_012293, ENS | Coding | TRUE |
| peroxidasin homolog (Drosophila) | NM_012293, ENS | Coding | TRUE |
| peroxidasin homolog (Drosophila) | NM_012293, ENS | Coding | TRUE |
| TatD DNase domain containing 2, ghrelin opposite stra | NM_014760, NR | Coding | TRUE |
| TatD DNase domain containing 2, ghrelin opposite stra | NM_014760, NR | Coding | TRUE |
| TatD DNase domain containing 2, ghrelin opposite stra | NM_014760, NR | Coding | TRUE |
| TatD DNase domain containing 2, ghrelin opposite stra | NM_014760, NR | Coding | TRUE |
| TatD DNase domain containing 2, ghrelin opposite stra | NM_014760, NR | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| zinc finger and BTB domain containing 38 | NM_001080412, | Coding | TRUE |
| procollagen C-endopeptidase enhancer 2 | NM_013363, ENS | Coding | TRUE |
| procollagen C-endopeptidase enhancer 2 | NM_013363, ENS | Coding | TRUE |
| FRY-like | NM_015030, ENS | Coding | TRUE |
| FRY-like | NM_015030, ENS | Coding | TRUE |
| FRY-like | NM_015030, ENS | Coding | TRUE |
| FRY-like | NM_015030, ENS | Coding | TRUE |
| transmembrane protein 106B | NM_001134232, | Coding | TRUE |
| transmembrane protein 106B | NM_001134232, | Coding | TRUE |
| sulfatase modifying factor 2 | NM_001042469, | Coding | TRUE |
| sulfatase modifying factor 2 | NM_001042469, | Coding | TRUE |
| sulfatase modifying factor 2 | NM_001042469, | Coding | TRUE |
| actin, beta, uncharacterized LOC100505829 | NM_001101, ENS | Coding | TRUE |
| actin, beta, uncharacterized LOC100505829 | NM_001101, ENS | Coding | TRUE |
| actin, beta, uncharacterized LOC100505829 | NM_001101, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| FUN14 domain containing 1 | NM_173794, ENS | Coding | TRUE |
| FUN14 domain containing 1 | NM_173794, ENS | Coding | TRUE |
| plexin B3 | NM_001163257, | Coding | TRUE |
| plexin B3 | NM_001163257, | Coding | TRUE |
| uncharacterized LOC399715 | NR_040079 | Coding | TRUE |
| uncharacterized LOC399715 | NR_040079 | Coding | TRUE |
| uncharacterized LOC399715 | NR_040079 | Coding | TRUE |
| BRCA2 and CDKN1A interacting protein | NM_016567, NM | Coding | TRUE |
| BRCA2 and CDKN1A interacting protein | NM_016567, NM | Coding | TRUE |
| antigen identified by monoclonal antibody Ki-67 | NM_001145966, | Coding | TRUE |
| antigen identified by monoclonal antibody Ki-67 | NM_001145966, | Coding | TRUE |
| antigen identified by monoclonal antibody Ki-67 | NM_001145966, | Coding | TRUE |
| coiled-coil domain containing 122 | NM_144974, BC1 | Coding | TRUE |
| coiled-coil domain containing 122 | NM_144974, BC1 | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| p21 protein (Cdc42/Rac)-activated kinase 6, budding u | NM_001128628, | Coding | TRUE |
| cholinergic receptor, nicotinic, epsilon (muscle) | NM_000080, ENS | Coding | TRUE |
| cholinergic receptor, nicotinic, epsilon (muscle) | NM_000080, ENS | Coding | TRUE |
| cholinergic receptor, nicotinic, epsilon (muscle) | NM_000080, ENS | Coding | TRUE |
| cholinergic receptor, nicotinic, epsilon (muscle) | NM_000080, ENS | Coding | TRUE |
| cholinergic receptor, nicotinic, epsilon (muscle) | NM_000080, ENS | Coding | TRUE |
| zinc finger protein 700 | NM_144566, ENS | Coding | TRUE |
| zinc finger protein 700 | NM_144566, ENS | Coding | TRUE |
| zinc finger protein 700 | NM_144566, ENS | Coding | TRUE |
| amyloid beta (A4) precursor protein | NM_000484, NM | Coding | TRUE |
| amyloid beta (A4) precursor protein | NM_000484, NM | Coding | TRUE |
| KIAA1671 | NM_001145206, | Coding | TRUE |
| KIAA1671 | NM_001145206, | Coding | TRUE |
| KIAA1671 | NM_001145206, | Coding | TRUE |
| KIAA1671 | NM_001145206, | Coding | TRUE |
| DEP domain containing 5 | NM_001007188, | Coding | TRUE |
| DEP domain containing 5 | NM_001007188, | Coding | TRUE |
| DEP domain containing 5 | NM_001007188, | Coding | TRUE |
| DEP domain containing 5 | NM_001007188, | Coding | TRUE |
| DEP domain containing 5 | NM_001007188, | Coding | TRUE |
| DEP domain containing 5 | NM_001007188, | Coding | TRUE |
| sema domain, immunoglobulin domain (Ig), transmem | NM_001193300, | Coding | TRUE |
| sema domain, immunoglobulin domain (Ig), transmem | NM_001193300, | Coding | TRUE |
| sema domain, immunoglobulin domain (Ig), transmem | NM_001193300, | Coding | TRUE |
| sema domain, immunoglobulin domain (Ig), transmem | NM_001193300, | Coding | TRUE |
| heterochromatin protein 1, binding protein 3 | NM_016287, ENS | Coding | TRUE |
| heterochromatin protein 1, binding protein 3 | NM_016287, ENS | Coding | TRUE |
| heterochromatin protein 1, binding protein 3 | NM_016287, ENS | Coding | TRUE |
| heterochromatin protein 1, binding protein 3 | NM_016287, ENS | Coding | TRUE |
| 3-hydroxymethyl-3-methylglutaryl-CoA lyase | NM_000191, NM | Coding | TRUE |
| 3-hydroxymethyl-3-methylglutaryl-CoA lyase | NM_000191, NM | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box helicase 1 | NM_004939, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box helicase 1 | NM_004939, ENS | Coding | TRUE |

| | | | |
|---|-------------------|--------|------|
| DEAD (Asp-Glu-Ala-Asp) box helicase 1 | NM_004939, ENS | Coding | TRUE |
| fumarylacetoacetate hydrolase domain containing 2B, | NM_199336, ENS | Coding | TRUE |
| fumarylacetoacetate hydrolase domain containing 2B, | NM_199336, ENS | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| chemokine binding protein 2 | NM_001296, BCC | Coding | TRUE |
| progesterone receptor membrane component 2, unchar | NM_006320, ENS | Coding | TRUE |
| progesterone receptor membrane component 2, unchar | NM_006320, ENS | Coding | TRUE |
| progesterone receptor membrane component 2, unchar | NM_006320, ENS | Coding | TRUE |
| actin filament associated protein 1-like 1 | NM_001146337, BCC | Coding | TRUE |
| actin filament associated protein 1-like 1 | NM_001146337, BCC | Coding | TRUE |
| actin filament associated protein 1-like 1 | NM_001146337, BCC | Coding | TRUE |
| enhancer of zeste homolog 2 (Drosophila) | NM_001203247, BCC | Coding | TRUE |
| enhancer of zeste homolog 2 (Drosophila) | NM_001203247, BCC | Coding | TRUE |
| enhancer of zeste homolog 2 (Drosophila) | NM_001203247, BCC | Coding | TRUE |
| enhancer of zeste homolog 2 (Drosophila) | NM_001203247, BCC | Coding | TRUE |
| solute carrier family 25 (mitochondrial iron transporter) | NM_016612, ENS | Coding | TRUE |
| solute carrier family 25 (mitochondrial iron transporter) | NM_016612, ENS | Coding | TRUE |
| solute carrier family 25 (mitochondrial iron transporter) | NM_016612, ENS | Coding | TRUE |
| DAB2 interacting protein | NM_138709, NM | Coding | TRUE |
| DAB2 interacting protein | NM_138709, NM | Coding | TRUE |
| DAB2 interacting protein | NM_138709, NM | Coding | TRUE |
| DAB2 interacting protein | NM_138709, NM | Coding | TRUE |
| DAB2 interacting protein | NM_138709, NM | Coding | TRUE |
| Nik related kinase | NM_198465, ENS | Coding | TRUE |
| Nik related kinase | NM_198465, ENS | Coding | TRUE |
| Nik related kinase | NM_198465, ENS | Coding | TRUE |
| Nik related kinase | NM_198465, ENS | Coding | TRUE |
| Nik related kinase | NM_198465, ENS | Coding | TRUE |
| PBX/knotted 1 homeobox 2 | NM_022062, ENS | Coding | TRUE |
| PBX/knotted 1 homeobox 2 | NM_022062, ENS | Coding | TRUE |
| PBX/knotted 1 homeobox 2 | NM_022062, ENS | Coding | TRUE |
| PBX/knotted 1 homeobox 2 | NM_022062, ENS | Coding | TRUE |
| DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 | NM_152438, NM | Coding | TRUE |
| DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 | NM_152438, NM | Coding | TRUE |
| PARP1 binding protein | NM_017915, ENS | Coding | TRUE |
| PARP1 binding protein | NM_017915, ENS | Coding | TRUE |
| PARP1 binding protein | NM_017915, ENS | Coding | TRUE |

| |
|--|
| calcium/calmodulin-dependent serine protein kinase (NM_001126054, Coding TRUE |
| calcium/calmodulin-dependent serine protein kinase (NM_001126054, Coding TRUE |
| calcium/calmodulin-dependent serine protein kinase (NM_001126054, Coding TRUE |
| calcium/calmodulin-dependent serine protein kinase (NM_001126054, Coding TRUE |
| calcium/calmodulin-dependent serine protein kinase (NM_001126054, Coding TRUE |
| solute carrier family 35, member G1 NM_001134658, Coding TRUE |
| solute carrier family 35, member G1 NM_001134658, Coding TRUE |
| solute carrier family 35, member G1 NM_001134658, Coding TRUE |
| asparagine-linked glycosylation 9, alpha-1,2-mannosyl NM_001077690, Coding TRUE |
| asparagine-linked glycosylation 9, alpha-1,2-mannosyl NM_001077690, Coding TRUE |
| asparagine-linked glycosylation 9, alpha-1,2-mannosyl NM_001077690, Coding TRUE |
| PITPNM family member 3 NM_031220, NM_ Coding TRUE |
| PITPNM family member 3 NM_031220, NM_ Coding TRUE |
| PITPNM family member 3 NM_031220, NM_ Coding TRUE |
| PITPNM family member 3 NM_031220, NM_ Coding TRUE |
| zinc finger protein 672 NM_024836, ENS Coding TRUE |
| zinc finger protein 672 NM_024836, ENS Coding TRUE |
| inositol polyphosphate-4-phosphatase, type I, 107kDa NM_001134224, Coding TRUE |
| inositol polyphosphate-4-phosphatase, type I, 107kDa NM_001134224, Coding TRUE |
| inositol polyphosphate-4-phosphatase, type I, 107kDa NM_001134224, Coding TRUE |
| zinc finger, RAN-binding domain containing 3 NM_032143, ENS Coding TRUE |
| zinc finger, RAN-binding domain containing 3 NM_032143, ENS Coding TRUE |
| forkhead box P1 NM_001012505, Coding TRUE |
| forkhead box P1 NM_001012505, Coding TRUE |
| forkhead box P1 NM_001012505, Coding TRUE |
| 2-hydroxyacyl-CoA lyase 1 NM_012260, ENS Coding TRUE |
| 2-hydroxyacyl-CoA lyase 1 NM_012260, ENS Coding TRUE |
| huntingtin NM_002111, ENS Coding TRUE |
| huntingtin NM_002111, ENS Coding TRUE |
| protocadherin 7 NM_001173523, Coding TRUE |
| protocadherin 7 NM_001173523, Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| protein tyrosine phosphatase, non-receptor type 13 (A NM_006264, NM_ Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| 3-oxoacid CoA transferase 1 NM_000436, ENS Coding TRUE |
| POM121 and ZP3 fusion NM_012230, NM_ Coding TRUE |
| POM121 and ZP3 fusion NM_012230, NM_ Coding TRUE |

| | | | |
|--|----------------|--------|------|
| IQCH antisense RNA 1 (non-protein coding) | NR_040051, NR | Coding | TRUE |
| IQCH antisense RNA 1 (non-protein coding) | NR_040051, NR | Coding | TRUE |
| IQCH antisense RNA 1 (non-protein coding) | NR_040051, NR | Coding | TRUE |
| IQCH antisense RNA 1 (non-protein coding) | NR_040051, NR | Coding | TRUE |
| nucleoporin 85kDa | NM_024844, ENS | Coding | TRUE |
| nucleoporin 85kDa | NM_024844, ENS | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| rhomboid 5 homolog 2 (Drosophila) | NM_001005498, | Coding | TRUE |
| thioredoxin domain containing 2 (spermatozoa) | NM_001098529, | Coding | TRUE |
| thioredoxin domain containing 2 (spermatozoa) | NM_001098529, | Coding | TRUE |
| collagen, type XVIII, alpha 1 | NM_030582, NM | Coding | TRUE |
| collagen, type XVIII, alpha 1 | NM_030582, NM | Coding | TRUE |
| collagen, type XVIII, alpha 1 | NM_030582, NM | Coding | TRUE |
| collagen, type XVIII, alpha 1 | NM_030582, NM | Coding | TRUE |
| collagen, type XVIII, alpha 1 | NM_030582, NM | Coding | TRUE |
| collagen, type XVIII, alpha 1 | NM_030582, NM | Coding | TRUE |
| purinergic receptor P2X, ligand-gated ion channel, 6 | NM_001159554, | Coding | TRUE |
| purinergic receptor P2X, ligand-gated ion channel, 6 | NM_001159554, | Coding | TRUE |
| purinergic receptor P2X, ligand-gated ion channel, 6 | NM_001159554, | Coding | TRUE |
| purinergic receptor P2X, ligand-gated ion channel, 6 | NM_001159554, | Coding | TRUE |
| purinergic receptor P2X, ligand-gated ion channel, 6 | NM_001159554, | Coding | TRUE |
| lipase maturation factor 2 | NM_033200, BCC | Coding | TRUE |
| lipase maturation factor 2 | NM_033200, BCC | Coding | TRUE |
| lipase maturation factor 2 | NM_033200, BCC | Coding | TRUE |
| cytidine deaminase | NM_001785, ENS | Coding | TRUE |
| cytidine deaminase | NM_001785, ENS | Coding | TRUE |
| cytidine deaminase | NM_001785, ENS | Coding | TRUE |
| serologically defined colon cancer antigen 8 | NM_006642, ENS | Coding | TRUE |
| serologically defined colon cancer antigen 8 | NM_006642, ENS | Coding | TRUE |
| leiomodrin 1 (smooth muscle) | NM_012134, ENS | Coding | TRUE |
| leiomodrin 1 (smooth muscle) | NM_012134, ENS | Coding | TRUE |
| leiomodrin 1 (smooth muscle) | NM_012134, ENS | Coding | TRUE |
| galactosidase, beta 1, transmembrane protein with me | NM_000404, NM | Coding | TRUE |
| galactosidase, beta 1, transmembrane protein with me | NM_000404, NM | Coding | TRUE |
| galactosidase, beta 1, transmembrane protein with me | NM_000404, NM | Coding | TRUE |
| galactosidase, beta 1, transmembrane protein with me | NM_000404, NM | Coding | TRUE |
| phosphoglucomutase 2 | NM_018290, ENS | Coding | TRUE |
| phosphoglucomutase 2 | NM_018290, ENS | Coding | TRUE |
| phosphoglucomutase 2 | NM_018290, ENS | Coding | TRUE |
| phosphoglucomutase 2 | NM_018290, ENS | Coding | TRUE |
| glycoprotein M6A | NM_005277, NM | Coding | TRUE |
| glycoprotein M6A | NM_005277, NM | Coding | TRUE |
| glycoprotein M6A | NM_005277, NM | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| RasGEF domain family, member 1B | NM_152545, ENS | Coding | TRUE |
| membrane-associated ring finger (C3HC4) 6, E3 ubiqu | NM_005885, ENS | Coding | TRUE |
| membrane-associated ring finger (C3HC4) 6, E3 ubiqu | NM_005885, ENS | Coding | TRUE |
| exocyst complex component 2 | NM_018303, ENS | Coding | TRUE |

| | | | |
|--|-------------------|--------|------|
| exocyst complex component 2 | NM_018303, ENS | Coding | TRUE |
| exocyst complex component 2 | NM_018303, ENS | Coding | TRUE |
| exocyst complex component 2 | NM_018303, ENS | Coding | TRUE |
| kinesin family member 13A | NM_001105566, ENS | Coding | TRUE |
| kinesin family member 13A | NM_001105566, ENS | Coding | TRUE |
| kinesin family member 13A | NM_001105566, ENS | Coding | TRUE |
| retinitis pigmentosa 9 pseudogene | NR_003500, ENS | Coding | TRUE |
| retinitis pigmentosa 9 pseudogene | NR_003500, ENS | Coding | TRUE |
| retinitis pigmentosa 9 pseudogene | NR_003500, ENS | Coding | TRUE |
| cyclin-dependent kinase 14 | NM_012395, ENS | Coding | TRUE |
| cyclin-dependent kinase 14 | NM_012395, ENS | Coding | TRUE |
| cyclin-dependent kinase 14 | NM_012395, ENS | Coding | TRUE |
| cyclin-dependent kinase 14 | NM_012395, ENS | Coding | TRUE |
| cyclin-dependent kinase 14 | NM_012395, ENS | Coding | TRUE |
| solute carrier family 44, member 1 | NM_080546, ENS | Coding | TRUE |
| solute carrier family 44, member 1 | NM_080546, ENS | Coding | TRUE |
| solute carrier family 44, member 1 | NM_080546, ENS | Coding | TRUE |
| solute carrier family 44, member 1 | NM_080546, ENS | Coding | TRUE |
| solute carrier family 44, member 1 | NM_080546, ENS | Coding | TRUE |
| family with sequence similarity 206, member A | NM_017832, ENS | Coding | TRUE |
| family with sequence similarity 206, member A | NM_017832, ENS | Coding | TRUE |
| GTPase activating protein and VPS9 domains 1 | NM_015635, BC1 | Coding | TRUE |
| GTPase activating protein and VPS9 domains 1 | NM_015635, BC1 | Coding | TRUE |
| GTPase activating protein and VPS9 domains 1 | NM_015635, BC1 | Coding | TRUE |
| GTPase activating protein and VPS9 domains 1 | NM_015635, BC1 | Coding | TRUE |
| GTPase activating protein and VPS9 domains 1 | NM_015635, BC1 | Coding | TRUE |
| TNF receptor-associated factor 2 | NM_021138, ENS | Coding | TRUE |
| TNF receptor-associated factor 2 | NM_021138, ENS | Coding | TRUE |
| TNF receptor-associated factor 2 | NM_021138, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| nuclear fragile X mental retardation protein interacting | NM_012345, ENS | Coding | TRUE |
| nuclear fragile X mental retardation protein interacting | NM_012345, ENS | Coding | TRUE |
| chromosome 14 open reading frame 176 | NM_001146683, ENS | Coding | TRUE |
| chromosome 14 open reading frame 176 | NM_001146683, ENS | Coding | TRUE |
| xylosyltransferase II | NM_022167, ENS | Coding | TRUE |
| xylosyltransferase II | NM_022167, ENS | Coding | TRUE |
| catsper channel auxiliary subunit gamma | NM_021185, ENS | Coding | TRUE |
| catsper channel auxiliary subunit gamma | NM_021185, ENS | Coding | TRUE |
| catsper channel auxiliary subunit gamma | NM_021185, ENS | Coding | TRUE |
| catsper channel auxiliary subunit gamma | NM_021185, ENS | Coding | TRUE |
| catsper channel auxiliary subunit gamma | NM_021185, ENS | Coding | TRUE |
| UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, | NM_004775, BC0 | Coding | TRUE |
| UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, | NM_004775, BC0 | Coding | TRUE |
| UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, | NM_004775, BC0 | Coding | TRUE |
| UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, | NM_004775, BC0 | Coding | TRUE |
| adenylate kinase 2 | NM_001199199, ENS | Coding | TRUE |
| adenylate kinase 2 | NM_001199199, ENS | Coding | TRUE |
| adenylate kinase 2 | NM_001199199, ENS | Coding | TRUE |
| adenylate kinase 2 | NM_001199199, ENS | Coding | TRUE |
| adenylate kinase 2 | NM_001199199, ENS | Coding | TRUE |
| ankyrin repeat domain 36B pseudogene 2 | NR_015424, ENS | Coding | TRUE |
| ankyrin repeat domain 36B pseudogene 2 | NR_015424, ENS | Coding | TRUE |
| ankyrin repeat domain 36B pseudogene 2 | NR_015424, ENS | Coding | TRUE |
| ankyrin repeat domain 36B pseudogene 2 | NR_015424, ENS | Coding | TRUE |
| leucine rich repeat transmembrane neuronal 1 | NM_178839, ENS | Coding | TRUE |
| leucine rich repeat transmembrane neuronal 1 | NM_178839, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| 8-oxoguanine DNA glycosylase | NM_002542, NM | Coding | TRUE |
| 8-oxoguanine DNA glycosylase | NM_002542, NM | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein D (AU-rich e | NM_001003810, | Coding | TRUE |
| heterogeneous nuclear ribonucleoprotein D (AU-rich e | NM_001003810, | Coding | TRUE |
| jumonji, AT rich interactive domain 2 | NM_004973, ENS | Coding | TRUE |
| jumonji, AT rich interactive domain 2 | NM_004973, ENS | Coding | TRUE |
| bystin-like | NM_004053, ENS | Coding | TRUE |
| bystin-like | NM_004053, ENS | Coding | TRUE |
| neurocalcin delta | NM_001040624, | Coding | TRUE |
| neurocalcin delta | NM_001040624, | Coding | TRUE |
| neurocalcin delta | NM_001040624, | Coding | TRUE |
| neurocalcin delta | NM_001040624, | Coding | TRUE |
| chromosome 9 open reading frame 89 | NM_032310, ENS | Coding | TRUE |
| chromosome 9 open reading frame 89 | NM_032310, ENS | Coding | TRUE |
| zinc finger protein 658 pseudogene, zinc finger protein | NR_003528, NR | Coding | TRUE |
| zinc finger protein 658 pseudogene, zinc finger protein | NR_003528, NR | Coding | TRUE |
| uncharacterized LOC100131434 | NR_027455 | Coding | TRUE |
| uncharacterized LOC100131434 | NR_027455 | Coding | TRUE |
| uncharacterized LOC100131434 | NR_027455 | Coding | TRUE |
| uncharacterized LOC100131434 | NR_027455 | Coding | TRUE |
| uncharacterized LOC100131434 | NR_027455 | Coding | TRUE |
| suppressor of fused homolog (Drosophila) | NM_001178133, | Coding | TRUE |
| suppressor of fused homolog (Drosophila) | NM_001178133, | Coding | TRUE |
| cysteinyl-tRNA synthetase | NM_001014437, | Coding | TRUE |
| cysteinyl-tRNA synthetase | NM_001014437, | Coding | TRUE |
| cysteinyl-tRNA synthetase | NM_001014437, | Coding | TRUE |
| cysteinyl-tRNA synthetase | NM_001014437, | Coding | TRUE |
| killer cell lectin-like receptor subfamily A pseudogene 1 | NR_028045, ENS | Coding | TRUE |
| killer cell lectin-like receptor subfamily A pseudogene 1 | NR_028045, ENS | Coding | TRUE |
| killer cell lectin-like receptor subfamily A pseudogene 1 | NR_028045, ENS | Coding | TRUE |
| killer cell lectin-like receptor subfamily A pseudogene 1 | NR_028045, ENS | Coding | TRUE |
| killer cell lectin-like receptor subfamily A pseudogene 1 | NR_028045, ENS | Coding | TRUE |
| E2F transcription factor 7 | NM_203394, ENS | Coding | TRUE |
| E2F transcription factor 7 | NM_203394, ENS | Coding | TRUE |
| E2F transcription factor 7 | NM_203394, ENS | Coding | TRUE |
| E2F transcription factor 7 | NM_203394, ENS | Coding | TRUE |
| chromosome 14 open reading frame 133 | NM_001193314, | Coding | TRUE |
| chromosome 14 open reading frame 133 | NM_001193314, | Coding | TRUE |
| chromosome 14 open reading frame 133 | NM_001193314, | Coding | TRUE |
| proteasome (prosome, macropain) subunit, alpha type | NM_001102667, | Coding | TRUE |
| proteasome (prosome, macropain) subunit, alpha type | NM_001102667, | Coding | TRUE |
| proteasome (prosome, macropain) subunit, alpha type | NM_001102667, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| sperm antigen with calponin homology and coiled-coil | NM_001033553, | Coding | TRUE |
| Rho-associated, coiled-coil containing protein kinase 1 | NR_033770 | Coding | TRUE |
| Rho-associated, coiled-coil containing protein kinase 1 | NR_033770 | Coding | TRUE |
| cAMP responsive element binding protein 3-like 3 | NM_032607, ENS | Coding | TRUE |
| cAMP responsive element binding protein 3-like 3 | NM_032607, ENS | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| attractin | NM_001207047, | Coding | TRUE |
| attractin | NM_001207047, | Coding | TRUE |
| notch 4 | NM_004557, BC1 | Coding | TRUE |
| notch 4 | NM_004557, BC1 | Coding | TRUE |
| notch 4 | NM_004557, BC1 | Coding | TRUE |
| family with sequence similarity 71, member F2 | NM_001128926, | Coding | TRUE |
| family with sequence similarity 71, member F2 | NM_001128926, | Coding | TRUE |
| family with sequence similarity 71, member F2 | NM_001128926, | Coding | TRUE |
| uncharacterized FLJ39739, uncharacterized LOC1002 | NR_027468, NR_ | Coding | TRUE |
| uncharacterized FLJ39739, uncharacterized LOC1002 | NR_027468, NR_ | Coding | TRUE |
| uncharacterized FLJ39739, uncharacterized LOC1002 | NR_027468, NR_ | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| multiple coagulation factor deficiency 2 | NM_001171511, I | Coding | TRUE |
| multiple coagulation factor deficiency 2 | NM_001171511, I | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| IQ motif containing J, schwannomin interacting protein | NM_001042705, | Coding | TRUE |
| chromosome 4 open reading frame 29 | NM_001039717, | Coding | TRUE |
| chromosome 4 open reading frame 29 | NM_001039717, | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 6 | NM_018227, ENS | Coding | TRUE |
| ubiquitin-like modifier activating enzyme 6 | NM_018227, ENS | Coding | TRUE |
| EGF-like, fibronectin type III and laminin G domains | NM_001205301, | Coding | TRUE |
| EGF-like, fibronectin type III and laminin G domains | NM_001205301, | Coding | TRUE |
| EGF-like, fibronectin type III and laminin G domains | NM_001205301, | Coding | TRUE |
| EGF-like, fibronectin type III and laminin G domains | NM_001205301, | Coding | TRUE |
| EGF-like, fibronectin type III and laminin G domains | NM_001205301, | Coding | TRUE |
| RAD17 homolog (S. pombe) | NM_002873, NM_ | Coding | TRUE |
| RAD17 homolog (S. pombe) | NM_002873, NM_ | Coding | TRUE |
| mutS homolog 3 (E. coli) | NM_002439, ENS | Coding | TRUE |
| mutS homolog 3 (E. coli) | NM_002439, ENS | Coding | TRUE |
| kinesin family member C1 | NM_002263, ENS | Coding | TRUE |
| kinesin family member C1 | NM_002263, ENS | Coding | TRUE |
| kinesin family member C1 | NM_002263, ENS | Coding | TRUE |
| kinesin family member C1 | NM_002263, ENS | Coding | TRUE |
| sine oculis binding protein homolog (Drosophila) | NM_018013, ENS | Coding | TRUE |
| sine oculis binding protein homolog (Drosophila) | NM_018013, ENS | Coding | TRUE |
| sine oculis binding protein homolog (Drosophila) | NM_018013, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| mediator of DNA-damage checkpoint 1 | NM_014641, ENS | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, ENS | Coding | TRUE |
| mediator of DNA-damage checkpoint 1 | NM_014641, ENS | Coding | TRUE |
| adenosylhomocysteinase-like 2 | NM_001130720, | Coding | TRUE |
| adenosylhomocysteinase-like 2 | NM_001130720, | Coding | TRUE |
| solute carrier family 30 (zinc transporter), member 8 | NM_001172815, | Coding | TRUE |
| solute carrier family 30 (zinc transporter), member 8 | NM_001172815, | Coding | TRUE |
| PHD finger protein 2 | NM_005392, ENS | Coding | TRUE |
| PHD finger protein 2 | NM_005392, ENS | Coding | TRUE |
| uncharacterized LOC100287765 | NR_038988, ENS | Coding | TRUE |
| uncharacterized LOC100287765 | NR_038988, ENS | Coding | TRUE |
| uncharacterized LOC100287765 | NR_038988, ENS | Coding | TRUE |
| uncharacterized LOC100287765 | NR_038988, ENS | Coding | TRUE |
| uncharacterized LOC100287765 | NR_038988, ENS | Coding | TRUE |
| uncharacterized LOC100287765 | NR_038988, ENS | Coding | TRUE |
| hydroxysteroid (17-beta) dehydrogenase 7 pseudogen | NR_003086, ENS | Coding | TRUE |
| hydroxysteroid (17-beta) dehydrogenase 7 pseudogen | NR_003086, ENS | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| RNA binding motif protein 14, RNA binding motif protei | NM_001198836, | Coding | TRUE |
| YLP motif containing 1, uncharacterized LOC1005065 | NM_019589, ENS | Coding | TRUE |
| YLP motif containing 1, uncharacterized LOC1005065 | NM_019589, ENS | Coding | TRUE |
| YLP motif containing 1, uncharacterized LOC1005065 | NM_019589, ENS | Coding | TRUE |
| YLP motif containing 1, uncharacterized LOC1005065 | NM_019589, ENS | Coding | TRUE |
| YLP motif containing 1, uncharacterized LOC1005065 | NM_019589, ENS | Coding | TRUE |
| YLP motif containing 1, uncharacterized LOC1005065 | NM_019589, ENS | Coding | TRUE |
| tight junction protein 1 (zona occludens 1) | NM_003257, NM | Coding | TRUE |
| tight junction protein 1 (zona occludens 1) | NM_003257, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| myosin VA (heavy chain 12, myosin) | NM_000259, NM | Coding | TRUE |
| proteasome (prosome, macropain) 26S subunit, non-A | NM_002815, ENS | Coding | TRUE |
| proteasome (prosome, macropain) 26S subunit, non-A | NM_002815, ENS | Coding | TRUE |
| trefoil factor 3 (intestinal) | NM_003226, ENS | Coding | TRUE |
| trefoil factor 3 (intestinal) | NM_003226, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 4 | NM_022081, NM | Coding | TRUE |
| Hermansky-Pudlak syndrome 4 | NM_022081, NM | Coding | TRUE |
| Hermansky-Pudlak syndrome 4 | NM_022081, NM | Coding | TRUE |
| Hermansky-Pudlak syndrome 4 | NM_022081, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| kinesin family member C1 | NM_002263, BC1 | Coding | TRUE |
| kinesin family member C1 | NM_002263, BC1 | Coding | TRUE |
| kinesin family member C1 | NM_002263, BC1 | Coding | TRUE |
| kinesin family member C1 | NM_002263, BC1 | Coding | TRUE |
| peroxisomal biogenesis factor 14 | NM_004565, ENS | Coding | TRUE |
| peroxisomal biogenesis factor 14 | NM_004565, ENS | Coding | TRUE |
| peroxisomal biogenesis factor 14 | NM_004565, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| ecotropic viral integration site 5 | NM_005665, ENS | Coding | TRUE |
| ecotropic viral integration site 5 | NM_005665, ENS | Coding | TRUE |
| ecotropic viral integration site 5 | NM_005665, ENS | Coding | TRUE |
| transgelin 2 | NM_003564, ENS | Coding | TRUE |
| transgelin 2 | NM_003564, ENS | Coding | TRUE |
| transgelin 2 | NM_003564, ENS | Coding | TRUE |
| nuclear VCP-like | NM_001243146, | Coding | TRUE |
| nuclear VCP-like | NM_001243146, | Coding | TRUE |
| nuclear VCP-like | NM_001243146, | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| methyl-CpG binding domain protein 5 | NM_018328, ENS | Coding | TRUE |
| solute carrier family 4, anion exchanger, member 3 | NM_005070, NM, | Coding | TRUE |
| solute carrier family 4, anion exchanger, member 3 | NM_005070, NM, | Coding | TRUE |
| solute carrier family 4, anion exchanger, member 3 | NM_005070, NM, | Coding | TRUE |
| cytochrome c oxidase subunit VIIa polypeptide 2 like | NM_004718, ENS | Coding | TRUE |
| cytochrome c oxidase subunit VIIa polypeptide 2 like | NM_004718, ENS | Coding | TRUE |
| cytochrome c oxidase subunit VIIa polypeptide 2 like | NM_004718, ENS | Coding | TRUE |
| StAR-related lipid transfer (START) domain containing | NM_020151, ENS | Coding | TRUE |
| StAR-related lipid transfer (START) domain containing | NM_020151, ENS | Coding | TRUE |
| chromosome 3 open reading frame 55 | NR_024016, NM, | Coding | TRUE |
| chromosome 3 open reading frame 55 | NR_024016, NM, | Coding | TRUE |
| chromosome 3 open reading frame 55 | NR_024016, NM, | Coding | TRUE |
| chromosome 3 open reading frame 55 | NR_024016, NM, | Coding | TRUE |
| chromosome 3 open reading frame 55 | NR_024016, NM, | Coding | TRUE |
| chromosome 3 open reading frame 55 | NR_024016, NM, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| solute carrier family 26, member 6 | NM_001040454, | Coding | TRUE |
| chromosome 4 open reading frame 33 | NM_001099783, | Coding | TRUE |
| chromosome 4 open reading frame 33 | NM_001099783, | Coding | TRUE |
| chromosome 4 open reading frame 33 | NM_001099783, | Coding | TRUE |
| chromosome 4 open reading frame 33 | NM_001099783, | Coding | TRUE |
| E74-like factor 2 (ets domain transcription factor) | NM_201999, NM, | Coding | TRUE |
| E74-like factor 2 (ets domain transcription factor) | NM_201999, NM, | Coding | TRUE |
| E74-like factor 2 (ets domain transcription factor) | NM_201999, NM, | Coding | TRUE |
| E74-like factor 2 (ets domain transcription factor) | NM_201999, NM, | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II alpha | NM_015981, NM, | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II alpha | NM_015981, NM, | Coding | TRUE |
| netrin G2 | NM_032536, ENS | Coding | TRUE |
| netrin G2 | NM_032536, ENS | Coding | TRUE |
| phosphatidylinositol-4-phosphate 5-kinase-like 1 | NM_173492, NM, | Coding | TRUE |
| phosphatidylinositol-4-phosphate 5-kinase-like 1 | NM_173492, NM, | Coding | TRUE |
| phosphatidylinositol-4-phosphate 5-kinase-like 1 | NM_173492, NM, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| HOXA cluster antisense RNA 2 (non-protein coding) | ENST000005175 | Coding | TRUE |
| HOXA cluster antisense RNA 2 (non-protein coding) | ENST000005175 | Coding | TRUE |
| HOXA cluster antisense RNA 2 (non-protein coding) | ENST000005175 | Coding | TRUE |
| HOXA cluster antisense RNA 2 (non-protein coding) | ENST000005175 | Coding | TRUE |
| HOXA cluster antisense RNA 2 (non-protein coding) | ENST000005175 | Coding | TRUE |
| PDS5, regulator of cohesion maintenance, homolog B | NM_015032, ENS | Coding | TRUE |
| PDS5, regulator of cohesion maintenance, homolog B | NM_015032, ENS | Coding | TRUE |
| PDS5, regulator of cohesion maintenance, homolog B | NM_015032, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| chromosome 17 open reading frame 28 | NM_030630, ENS | Coding | TRUE |
| leucine-rich repeats and guanylate kinase domain con | NM_144648, ENS | Coding | TRUE |
| leucine-rich repeats and guanylate kinase domain con | NM_144648, ENS | Coding | TRUE |
| leucine-rich repeats and guanylate kinase domain con | NM_144648, ENS | Coding | TRUE |
| periplakin | NM_002705, ENS | Coding | TRUE |
| periplakin | NM_002705, ENS | Coding | TRUE |
| periplakin | NM_002705, ENS | Coding | TRUE |
| secretion regulating guanine nucleotide exchange fact | NM_012139, ENS | Coding | TRUE |
| secretion regulating guanine nucleotide exchange fact | NM_012139, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| dickkopf 1 homolog (Xenopus laevis) | NM_012242, ENS | Coding | TRUE |
| exocyst complex component 4 | NM_001037126, | Coding | TRUE |
| exocyst complex component 4 | NM_001037126, | Coding | TRUE |
| exocyst complex component 4 | NM_001037126, | Coding | TRUE |
| enhancer of polycomb homolog 1 (Drosophila) | NM_025209, ENS | Coding | TRUE |
| enhancer of polycomb homolog 1 (Drosophila) | NM_025209, ENS | Coding | TRUE |
| enhancer of polycomb homolog 1 (Drosophila) | NM_025209, ENS | Coding | TRUE |
| enhancer of polycomb homolog 1 (Drosophila) | NM_025209, ENS | Coding | TRUE |
| enhancer of polycomb homolog 1 (Drosophila) | NM_025209, ENS | Coding | TRUE |
| myotubularin related protein 7 | NM_004686, ENS | Coding | TRUE |
| myotubularin related protein 7 | NM_004686, ENS | Coding | TRUE |
| myotubularin related protein 7 | NM_004686, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 3, subunit C, euk | NM_001037808, | Coding | TRUE |
| eukaryotic translation initiation factor 3, subunit C, euk | NM_001037808, | Coding | TRUE |
| fumarylacetoacetate hydrolase domain containing 2A | NM_016044, ENS | Coding | TRUE |
| fumarylacetoacetate hydrolase domain containing 2A | NM_016044, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide B, 14 | NM_000938, ENS | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide B, 14 | NM_000938, ENS | Coding | TRUE |
| N(alpha)-acetyltransferase 35, NatC auxiliary subunit | NM_024635, ENS | Coding | TRUE |
| N(alpha)-acetyltransferase 35, NatC auxiliary subunit | NM_024635, ENS | Coding | TRUE |
| N(alpha)-acetyltransferase 35, NatC auxiliary subunit | NM_024635, ENS | Coding | TRUE |
| chromosome 10 open reading frame 88 pseudogene | NR_027282, ENS | Coding | TRUE |
| chromosome 10 open reading frame 88 pseudogene | NR_027282, ENS | Coding | TRUE |
| chromosome 10 open reading frame 88 pseudogene | NR_027282, ENS | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 2 | NM_017822, ENS | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 2 | NM_017822, ENS | Coding | TRUE |
| SWI/SNF related, matrix associated, actin dependent f | NM_001128844, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| SWI/SNF related, matrix associated, actin dependent f | NM_001128844, | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| TAP binding protein (tapasin) | NM_003190, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| polyhomeotic homolog 2 (Drosophila), microRNA 3605 | NM_004427, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| testis specific, 10 | NM_025244, NM | Coding | TRUE |
| integrin, alpha 9 | NM_002207, BCC | Coding | TRUE |
| integrin, alpha 9 | NM_002207, BCC | Coding | TRUE |
| integrin, alpha 9 | NM_002207, BCC | Coding | TRUE |
| integrin, alpha 9 | NM_002207, BCC | Coding | TRUE |
| integrin, alpha 9 | NM_002207, BCC | Coding | TRUE |
| integrin, alpha 9 | NM_002207, BCC | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| family with sequence similarity 66, member D | NR_027425, ENS | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| protein kinase, AMP-activated, gamma 2 non-catalytic | NM_001040633, | Coding | TRUE |
| phosphorylase kinase, alpha 2 (liver) | NM_000292, ENS | Coding | TRUE |
| phosphorylase kinase, alpha 2 (liver) | NM_000292, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| phosphorylase kinase, alpha 2 (liver) | NM_000292, ENS | Coding | TRUE |
| phosphorylase kinase, alpha 2 (liver) | NM_000292, ENS | Coding | TRUE |
| phosphorylase kinase, alpha 2 (liver) | NM_000292, ENS | Coding | TRUE |
| phosphorylase kinase, alpha 2 (liver) | NM_000292, ENS | Coding | TRUE |
| solute carrier family 35, member F2 | NM_017515, ENS | Coding | TRUE |
| solute carrier family 35, member F2 | NM_017515, ENS | Coding | TRUE |
| solute carrier family 35, member F2 | NM_017515, ENS | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| uncharacterized LOC379025 | NR_029434, NR | Coding | TRUE |
| bolA homolog 2 (E. coli), bolA homolog 2B (E. coli) | NM_001031827, | Coding | TRUE |
| bolA homolog 2 (E. coli), bolA homolog 2B (E. coli) | NM_001031827, | Coding | TRUE |
| bolA homolog 2 (E. coli), bolA homolog 2B (E. coli) | NM_001031827, | Coding | TRUE |
| pannexin 2 | NM_001160300, | Coding | TRUE |
| pannexin 2 | NM_001160300, | Coding | TRUE |
| pannexin 2 | NM_001160300, | Coding | TRUE |
| pannexin 2 | NM_001160300, | Coding | TRUE |
| pannexin 2 | NM_001160300, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| sterol carrier protein 2 | NM_001007250, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase | NM_001018053, | Coding | TRUE |
| oxysterol binding protein-like 10 | NM_001174060, | Coding | TRUE |
| oxysterol binding protein-like 10 | NM_001174060, | Coding | TRUE |
| oxysterol binding protein-like 10 | NM_001174060, | Coding | TRUE |
| oxysterol binding protein-like 10 | NM_001174060, | Coding | TRUE |
| oxysterol binding protein-like 10 | NM_001174060, | Coding | TRUE |
| oxysterol binding protein-like 10 | NM_001174060, | Coding | TRUE |
| EPH receptor B6 | NM_004445, ENS | Coding | TRUE |
| EPH receptor B6 | NM_004445, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| midkine (neurite growth-promoting factor 2) | NM_001012333, | Coding | TRUE |
| midkine (neurite growth-promoting factor 2) | NM_001012333, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| t-complex 11 (mouse)-like 1 | NM_018393, NM | Coding | TRUE |
| t-complex 11 (mouse)-like 1 | NM_018393, NM | Coding | TRUE |
| acid phosphatase 1, soluble | NM_001040649, | Coding | TRUE |
| acid phosphatase 1, soluble | NM_001040649, | Coding | TRUE |
| acid phosphatase 1, soluble | NM_001040649, | Coding | TRUE |
| leucine rich repeat containing 70, importin 11 | NM_181506, NM | Coding | TRUE |
| leucine rich repeat containing 70, importin 11 | NM_181506, NM | Coding | TRUE |
| leucine rich repeat containing 70, importin 11 | NM_181506, NM | Coding | TRUE |
| leucine rich repeat containing 70, importin 11 | NM_181506, NM | Coding | TRUE |
| homocysteine-inducible, endoplasmic reticulum stress | NM_001010990, | Coding | TRUE |
| homocysteine-inducible, endoplasmic reticulum stress | NM_001010990, | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| clathrin, heavy chain-like 1 | NM_001835, NM | Coding | TRUE |
| autophagy related 10 | NM_001131028, | Coding | TRUE |
| autophagy related 10 | NM_001131028, | Coding | TRUE |
| autophagy related 10 | NM_001131028, | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| solute carrier family 36 (proton/amino acid symporter), | NM_078483, ENS | Coding | TRUE |
| COX19 cytochrome c oxidase assembly homolog (S. c | NM_001031617, | Coding | TRUE |
| COX19 cytochrome c oxidase assembly homolog (S. c | NM_001031617, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_004482, ENS | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_004482, ENS | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_004482, ENS | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_004482, ENS | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_004482, ENS | Coding | TRUE |
| solute carrier family 19 (thiamine transporter), member | NM_006996, ENS | Coding | TRUE |
| solute carrier family 19 (thiamine transporter), member | NM_006996, ENS | Coding | TRUE |
| solute carrier family 19 (thiamine transporter), member | NM_006996, ENS | Coding | TRUE |
| solute carrier family 19 (thiamine transporter), member | NM_006996, ENS | Coding | TRUE |
| solute carrier family 19 (thiamine transporter), member | NM_006996, ENS | Coding | TRUE |
| chromosome 14 open reading frame 2 | NM_001127393, | Coding | TRUE |
| chromosome 14 open reading frame 2 | NM_001127393, | Coding | TRUE |
| chromosome 14 open reading frame 2 | NM_001127393, | Coding | TRUE |
| chromosome 14 open reading frame 2 | NM_001127393, | Coding | TRUE |
| zinc finger protein 431 | NM_133473, ENS | Coding | TRUE |
| zinc finger protein 431 | NM_133473, ENS | Coding | TRUE |
| zinc finger protein 431 | NM_133473, ENS | Coding | TRUE |
| 2-oxoglutarate and iron-dependent oxygenase domain | NM_024623, BC1 | Coding | TRUE |
| 2-oxoglutarate and iron-dependent oxygenase domain | NM_024623, BC1 | Coding | TRUE |
| heparan-alpha-glucosaminide N-acetyltransferase | NM_152419, ENS | Coding | TRUE |
| heparan-alpha-glucosaminide N-acetyltransferase | NM_152419, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| proline-serine-threonine phosphatase interacting prote | NM_003978, ENS | Coding | TRUE |
| glutathione peroxidase 2 (gastrointestinal) | NM_002083, ENS | Coding | TRUE |
| glutathione peroxidase 2 (gastrointestinal) | NM_002083, ENS | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001054, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001054, NM | Coding | TRUE |
| sulfotransferase family, cytosolic, 1A, phenol-preferring | NM_001054, NM | Coding | TRUE |
| integrin-binding sialoprotein | NM_004967, ENS | Coding | TRUE |
| integrin-binding sialoprotein | NM_004967, ENS | Coding | TRUE |
| amylase, alpha 2A (pancreatic) | NM_000699, ENS | Coding | TRUE |
| amylase, alpha 2A (pancreatic) | NM_000699, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| transmembrane protein 17 | NM_198276, ENS | Coding | TRUE |
| transmembrane protein 17 | NM_198276, ENS | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide D | NM_004805, ENS | Coding | TRUE |
| polymerase (RNA) II (DNA directed) polypeptide D | NM_004805, ENS | Coding | TRUE |
| Ca ⁺⁺ -dependent secretion activator 2 | NM_001009571, | Coding | TRUE |
| Ca ⁺⁺ -dependent secretion activator 2 | NM_001009571, | Coding | TRUE |
| Ca ⁺⁺ -dependent secretion activator 2 | NM_001009571, | Coding | TRUE |
| Ca ⁺⁺ -dependent secretion activator 2 | NM_001009571, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| Fanconi anemia, complementation group A | NM_000135, NM | Coding | TRUE |
| Fanconi anemia, complementation group A | NM_000135, NM | Coding | TRUE |
| Fanconi anemia, complementation group A | NM_000135, NM | Coding | TRUE |
| Fanconi anemia, complementation group A | NM_000135, NM | Coding | TRUE |
| Rho GTPase activating protein 44 | NM_014859, ENS | Coding | TRUE |
| Rho GTPase activating protein 44 | NM_014859, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| uncharacterized LOC730091 | NR_038387, ENS | Coding | TRUE |
| uncharacterized LOC730091 | NR_038387, ENS | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| coiled-coil and C2 domain containing 2A | NM_001080522, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| TBC1 (tre-2/USP6, BUB2, cdc16) domain family, mem | NM_001253914, | Coding | TRUE |
| shisa homolog 3 (Xenopus laevis) | NM_001080505, | Coding | TRUE |
| shisa homolog 3 (Xenopus laevis) | NM_001080505, | Coding | TRUE |
| shisa homolog 3 (Xenopus laevis) | NM_001080505, | Coding | TRUE |
| NIMA (never in mitosis gene a)-related kinase 1 | NM_001199397, | Coding | TRUE |
| NIMA (never in mitosis gene a)-related kinase 1 | NM_001199397, | Coding | TRUE |
| NIMA (never in mitosis gene a)-related kinase 1 | NM_001199397, | Coding | TRUE |
| glutaredoxin (thioltransferase) | NM_001118890, | Coding | TRUE |
| glutaredoxin (thioltransferase) | NM_001118890, | Coding | TRUE |
| glutaredoxin (thioltransferase) | NM_001118890, | Coding | TRUE |
| glutaredoxin (thioltransferase) | NM_001118890, | Coding | TRUE |
| glutaredoxin (thioltransferase) | NM_001118890, | Coding | TRUE |
| aldehyde dehydrogenase 7 family, member A1 | NM_001182, NM | Coding | TRUE |
| aldehyde dehydrogenase 7 family, member A1 | NM_001182, NM | Coding | TRUE |
| aldehyde dehydrogenase 7 family, member A1 | NM_001182, NM | Coding | TRUE |
| aldehyde dehydrogenase 7 family, member A1 | NM_001182, NM | Coding | TRUE |
| LYR motif containing 2 | NM_020466, NR | Coding | TRUE |
| LYR motif containing 2 | NM_020466, NR | Coding | TRUE |
| LYR motif containing 2 | NM_020466, NR | Coding | TRUE |
| HMG-box transcription factor 1 | NM_012257, NM | Coding | TRUE |
| HMG-box transcription factor 1 | NM_012257, NM | Coding | TRUE |
| HMG-box transcription factor 1 | NM_012257, NM | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II beta | NM_172079, NM | Coding | TRUE |
| calcium/calmodulin-dependent protein kinase II beta | NM_172079, NM | Coding | TRUE |
| sema domain, immunoglobulin domain (Ig), short basic | NM_006379, ENS | Coding | TRUE |
| sema domain, immunoglobulin domain (Ig), short basic | NM_006379, ENS | Coding | TRUE |
| ADP-ribosylation factor guanine nucleotide-exchange | NM_006421, ENS | Coding | TRUE |
| ADP-ribosylation factor guanine nucleotide-exchange | NM_006421, ENS | Coding | TRUE |
| ADP-ribosylation factor guanine nucleotide-exchange | NM_006421, ENS | Coding | TRUE |
| ADP-ribosylation factor guanine nucleotide-exchange | NM_006421, ENS | Coding | TRUE |
| runt-related transcription factor 1; translocated to, 1 (c) | NM_001198625, | Coding | TRUE |
| runt-related transcription factor 1; translocated to, 1 (c) | NM_001198625, | Coding | TRUE |
| runt-related transcription factor 1; translocated to, 1 (c) | NM_001198625, | Coding | TRUE |

| | | | |
|---|---------------------------|--------|------|
| runt-related transcription factor 1; translocated to, 1 (cyt) | NM_001198625, | Coding | TRUE |
| runt-related transcription factor 1; translocated to, 1 (cyt) | NM_001198625, | Coding | TRUE |
| runt-related transcription factor 1; translocated to, 1 (cyt) | NM_001198625, | Coding | TRUE |
| lymphocyte antigen 6 complex, locus H | NM_002347, NM_002347, | Coding | TRUE |
| lymphocyte antigen 6 complex, locus H | NM_002347, NM_002347, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| asparagine-linked glycosylation 13 homolog (S. cerevisiae) | NM_001039210, | Coding | TRUE |
| histone deacetylase 8 | NM_018486, NM_018486, | Coding | TRUE |
| histone deacetylase 8 | NM_018486, NM_018486, | Coding | TRUE |
| KIAA1210 | NM_020721, ENS0000028721, | Coding | TRUE |
| KIAA1210 | NM_020721, ENS0000028721, | Coding | TRUE |
| KIAA1210 | NM_020721, ENS0000028721, | Coding | TRUE |
| placenta-specific 9 | BC090922, ENS0000028721, | Coding | TRUE |
| placenta-specific 9 | BC090922, ENS0000028721, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| potassium large conductance calcium-activated channel subunit alpha 1 | NM_001014797, | Coding | TRUE |
| phosphatidylserine synthase 2 | NM_030783, BC090922, | Coding | TRUE |
| phosphatidylserine synthase 2 | NM_030783, BC090922, | Coding | TRUE |
| phosphatidylserine synthase 2 | NM_030783, BC090922, | Coding | TRUE |
| tetraspanin 18 | NM_130783, ENS0000028721, | Coding | TRUE |
| tetraspanin 18 | NM_130783, ENS0000028721, | Coding | TRUE |
| tetraspanin 18 | NM_130783, ENS0000028721, | Coding | TRUE |
| tetraspanin 18 | NM_130783, ENS0000028721, | Coding | TRUE |
| tetraspanin 18 | NM_130783, ENS0000028721, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| guanylate cyclase 2E, pseudogene | NR_024042 | Coding | TRUE |
| coiled-coil domain containing 60 | NM_178499, BC090922, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| RAB15, member RAS oncogene family | NM_198686, ENS | Coding | TRUE |
| family with sequence similarity 63, member B | NM_001040450, | Coding | TRUE |
| family with sequence similarity 63, member B | NM_001040450, | Coding | TRUE |
| family with sequence similarity 63, member B | NM_001040450, | Coding | TRUE |
| family with sequence similarity 63, member B | NM_001040450, | Coding | TRUE |
| family with sequence similarity 63, member B | NM_001040450, | Coding | TRUE |
| adenosine A2b receptor, uncharacterized LOC100653 | NM_000676, ENS | Coding | TRUE |
| adenosine A2b receptor, uncharacterized LOC100653 | NM_000676, ENS | Coding | TRUE |
| serine/arginine-rich splicing factor 1 | NM_001078166, | Coding | TRUE |
| serine/arginine-rich splicing factor 1 | NM_001078166, | Coding | TRUE |
| growth hormone 2 | NM_002059, NM | Coding | TRUE |
| growth hormone 2 | NM_002059, NM | Coding | TRUE |
| coiled-coil domain containing 57 | NM_198082, BCC | Coding | TRUE |
| coiled-coil domain containing 57 | NM_198082, BCC | Coding | TRUE |
| coiled-coil domain containing 57 | NM_198082, BCC | Coding | TRUE |
| transient receptor potential cation channel, subfamily V | NM_018727, NM | Coding | TRUE |
| transient receptor potential cation channel, subfamily V | NM_018727, NM | Coding | TRUE |
| elaC homolog 1 (E. coli) | NM_018696, ENS | Coding | TRUE |
| elaC homolog 1 (E. coli) | NM_018696, ENS | Coding | TRUE |
| elaC homolog 1 (E. coli) | NM_018696, ENS | Coding | TRUE |
| zinc finger protein 254 | NM_203282, ENS | Coding | TRUE |
| zinc finger protein 254 | NM_203282, ENS | Coding | TRUE |
| zinc finger protein 254 | NM_203282, ENS | Coding | TRUE |
| zinc finger protein 254 | NM_203282, ENS | Coding | TRUE |
| regulatory factor X, 2 (influences HLA class II expressi | NM_000635, NM | Coding | TRUE |
| regulatory factor X, 2 (influences HLA class II expressi | NM_000635, NM | Coding | TRUE |
| serine/arginine-rich splicing factor 6 | NM_006275, NR | Coding | TRUE |
| serine/arginine-rich splicing factor 6 | NM_006275, NR | Coding | TRUE |
| phosphoribosylglycinamide formyltransferase, phospho | NM_000819, NM | Coding | TRUE |
| phosphoribosylglycinamide formyltransferase, phospho | NM_000819, NM | Coding | TRUE |
| phosphoribosylglycinamide formyltransferase, phospho | NM_000819, NM | Coding | TRUE |
| phosphoribosylglycinamide formyltransferase, phospho | NM_000819, NM | Coding | TRUE |
| phosphoribosylglycinamide formyltransferase, phospho | NM_000819, NM | Coding | TRUE |
| coiled-coil alpha-helical rod protein 1 | NM_001105563, | Coding | TRUE |
| coiled-coil alpha-helical rod protein 1 | NM_001105563, | Coding | TRUE |
| coiled-coil alpha-helical rod protein 1 | NM_001105563, | Coding | TRUE |
| coiled-coil alpha-helical rod protein 1 | NM_001105563, | Coding | TRUE |
| major histocompatibility complex, class I, J (pseudoge | NR_024240 | Coding | TRUE |
| major histocompatibility complex, class I, J (pseudoge | NR_024240 | Coding | TRUE |
| major histocompatibility complex, class I, J (pseudoge | NR_024240 | Coding | TRUE |
| major histocompatibility complex, class I, J (pseudoge | NR_024240 | Coding | TRUE |
| major histocompatibility complex, class I, J (pseudoge | NR_024240 | Coding | TRUE |
| major histocompatibility complex, class I, J (pseudoge | NR_024240 | Coding | TRUE |
| autophagy related 4C, cysteine peptidase | NM_032852, NM | Coding | TRUE |
| autophagy related 4C, cysteine peptidase | NM_032852, NM | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, gly | NM_001024845, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| calmodulin-lysine N-methyltransferase | NM_024766, ENS | Coding | TRUE |
| spermatogenesis associated, serine-rich 2-like | NM_001100422, | Coding | TRUE |
| spermatogenesis associated, serine-rich 2-like | NM_001100422, | Coding | TRUE |
| spermatogenesis associated, serine-rich 2-like | NM_001100422, | Coding | TRUE |
| WD repeat domain 35 | NM_001006657, | Coding | TRUE |
| WD repeat domain 35 | NM_001006657, | Coding | TRUE |
| transmembrane protein 150A | NM_001031738, | Coding | TRUE |
| transmembrane protein 150A | NM_001031738, | Coding | TRUE |
| transmembrane protein 150A | NM_001031738, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| chimerin (chimaerin) 1 | NM_001025201, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| amyotrophic lateral sclerosis 2 (juvenile) | NM_001135745, | Coding | TRUE |
| ubiquitin specific peptidase 40 | NM_018218, ENS | Coding | TRUE |
| ubiquitin specific peptidase 40 | NM_018218, ENS | Coding | TRUE |
| ubiquitin specific peptidase 40 | NM_018218, ENS | Coding | TRUE |
| chromosome 2 open reading frame 74 | NM_001143960, | Coding | TRUE |
| chromosome 2 open reading frame 74 | NM_001143960, | Coding | TRUE |
| chromosome 2 open reading frame 74 | NM_001143960, | Coding | TRUE |
| chromosome 2 open reading frame 74 | NM_001143960, | Coding | TRUE |
| protein O-glucosyltransferase 1 | NM_152305, NR | Coding | TRUE |
| protein O-glucosyltransferase 1 | NM_152305, NR | Coding | TRUE |
| protein O-glucosyltransferase 1 | NM_152305, NR | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| growth factor receptor-bound protein 10 | NM_001001555, | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| stromal antigen 3 | NM_012447, ENS | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| deleted in liver cancer 1 | NM_001164271, | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| dynein, axonemal, intermediate chain 1 | NM_012144, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| monoamine oxidase A | NM_000240, ENS | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger protein 518A, uncharacterized LOC100509 | NM_014803, ENS | Coding | TRUE |
| zinc finger protein 518A, uncharacterized LOC100509 | NM_014803, ENS | Coding | TRUE |
| uncharacterized LOC399829 | ENST000004612 | Coding | TRUE |
| uncharacterized LOC399829 | ENST000004612 | Coding | TRUE |
| MICAL C-terminal like | NM_032867, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| MICAL C-terminal like | NM_032867, ENS | Coding | TRUE |
| uncharacterized LOC100506368 | NR_038905, ENS | Coding | TRUE |
| uncharacterized LOC100506368 | NR_038905, ENS | Coding | TRUE |
| uncharacterized LOC100506368 | NR_038905, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| BTB (POZ) domain containing 11 | NM_001017523, | Coding | TRUE |
| solute carrier family 11 (proton-coupled divalent metal | NM_001174125, | Coding | TRUE |
| solute carrier family 11 (proton-coupled divalent metal | NM_001174125, | Coding | TRUE |
| solute carrier family 11 (proton-coupled divalent metal | NM_001174125, | Coding | TRUE |
| keratin 3 | NM_057088, ENS | Coding | TRUE |
| keratin 3 | NM_057088, ENS | Coding | TRUE |
| adaptor-related protein complex 4, sigma 1 subunit | NM_001128126, | Coding | TRUE |
| adaptor-related protein complex 4, sigma 1 subunit | NM_001128126, | Coding | TRUE |
| adaptor-related protein complex 4, sigma 1 subunit | NM_001128126, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 | NM_001145335, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 | NM_001145335, | Coding | TRUE |
| ubiquitin-conjugating enzyme E2Q family member 2 | NM_001145335, | Coding | TRUE |
| putative golgin subfamily A member 8I-like | ENST000003402 | Coding | TRUE |
| putative golgin subfamily A member 8I-like | ENST000003402 | Coding | TRUE |
| putative golgin subfamily A member 8I-like | ENST000003402 | Coding | TRUE |
| GA binding protein transcription factor, beta subunit 1 | NM_016654, NM | Coding | TRUE |
| GA binding protein transcription factor, beta subunit 1 | NM_016654, NM | Coding | TRUE |
| GA binding protein transcription factor, beta subunit 1 | NM_016654, NM | Coding | TRUE |
| GA binding protein transcription factor, beta subunit 1 | NM_016654, NM | Coding | TRUE |
| GA binding protein transcription factor, beta subunit 1 | NM_016654, NM | Coding | TRUE |
| cholinergic receptor, nicotinic, alpha 7 (neuronal), CHF | NM_001190455, | Coding | TRUE |
| cholinergic receptor, nicotinic, alpha 7 (neuronal), CHF | NM_001190455, | Coding | TRUE |
| PR domain containing 7 | NM_052996, NM | Coding | TRUE |
| PR domain containing 7 | NM_052996, NM | Coding | TRUE |
| PR domain containing 7 | NM_052996, NM | Coding | TRUE |
| PR domain containing 7 | NM_052996, NM | Coding | TRUE |
| uncharacterized LOC400590 | BC062632 | Coding | TRUE |
| uncharacterized LOC400590 | BC062632 | Coding | TRUE |
| uncharacterized LOC400590 | BC062632 | Coding | TRUE |
| target of myb1-like 2 (chicken) | NM_001033551, | Coding | TRUE |
| target of myb1-like 2 (chicken) | NM_001033551, | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| calcium binding tyrosine-(Y)-phosphorylation regulated | NM_153769, NM | Coding | TRUE |
| CREB regulated transcription coactivator 1 | NM_001098482, | Coding | TRUE |
| CREB regulated transcription coactivator 1 | NM_001098482, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| prostate transmembrane protein, androgen induced 1 | NM_001255976, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| serine hydrolase-like | NR_027786, ENS | Coding | TRUE |
| serine hydrolase-like | NR_027786, ENS | Coding | TRUE |
| serine hydrolase-like | NR_027786, ENS | Coding | TRUE |
| serine hydrolase-like | NR_027786, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| inhibitor of kappa light polypeptide gene enhancer in B | NM_001193321, | Coding | TRUE |
| inhibitor of kappa light polypeptide gene enhancer in B | NM_001193321, | Coding | TRUE |
| inhibitor of kappa light polypeptide gene enhancer in B | NM_001193321, | Coding | TRUE |
| peptidylprolyl isomerase E-like pseudogene | NR_003929, ENS | Coding | TRUE |
| peptidylprolyl isomerase E-like pseudogene | NR_003929, ENS | Coding | TRUE |
| peptidylprolyl isomerase E-like pseudogene | NR_003929, ENS | Coding | TRUE |
| peptidylprolyl isomerase E-like pseudogene | NR_003929, ENS | Coding | TRUE |
| peptidylprolyl isomerase E-like pseudogene | NR_003929, ENS | Coding | TRUE |
| family with sequence similarity 150, member B | NM_001002919, | Coding | TRUE |
| family with sequence similarity 150, member B | NM_001002919, | Coding | TRUE |
| family with sequence similarity 150, member B | NM_001002919, | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 1-like | NM_152519, BCC | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 1-like | NM_152519, BCC | Coding | TRUE |
| KAT8 regulatory NSL complex subunit 1-like | NM_152519, BCC | Coding | TRUE |
| solute carrier family 25 (pyrimidine nucleotide carrier), | NM_001104647, | Coding | TRUE |
| solute carrier family 25 (pyrimidine nucleotide carrier), | NM_001104647, | Coding | TRUE |
| solute carrier family 25 (pyrimidine nucleotide carrier), | NM_001104647, | Coding | TRUE |
| UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltr | NM_032047, ENS | Coding | TRUE |
| UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltr | NM_032047, ENS | Coding | TRUE |
| UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltr | NM_032047, ENS | Coding | TRUE |
| UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltr | NM_032047, ENS | Coding | TRUE |
| UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltr | NM_032047, ENS | Coding | TRUE |
| family with sequence similarity 131, member A | NM_001171093, | Coding | TRUE |
| family with sequence similarity 131, member A | NM_001171093, | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 36 | NM_001114397, I | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 36 | NM_001114397, I | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 36 | NM_001114397, I | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 36 | NM_001114397, I | Coding | TRUE |
| DEAH (Asp-Glu-Ala-His) box polypeptide 36 | NM_001114397, I | Coding | TRUE |
| B-cell CLL/lymphoma 6 | NM_001130845, | Coding | TRUE |
| B-cell CLL/lymphoma 6 | NM_001130845, | Coding | TRUE |
| superoxide dismutase 3, extracellular | NM_003102, ENS | Coding | TRUE |
| superoxide dismutase 3, extracellular | NM_003102, ENS | Coding | TRUE |
| superoxide dismutase 3, extracellular | NM_003102, ENS | Coding | TRUE |
| superoxide dismutase 3, extracellular | NM_003102, ENS | Coding | TRUE |
| anthrax toxin receptor 2 | NM_001145794, | Coding | TRUE |
| anthrax toxin receptor 2 | NM_001145794, | Coding | TRUE |
| anthrax toxin receptor 2 | NM_001145794, | Coding | TRUE |
| anthrax toxin receptor 2 | NM_001145794, | Coding | TRUE |
| H2A histone family, member Z | NM_002106, ENS | Coding | TRUE |
| H2A histone family, member Z | NM_002106, ENS | Coding | TRUE |
| H2A histone family, member Z | NM_002106, ENS | Coding | TRUE |
| H2A histone family, member Z | NM_002106, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |

| | | | |
|---|-------------------|--------|------|
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| ADAM metallopeptidase with thrombospondin type 1 n | NM_030955, ENS | Coding | TRUE |
| zinc finger protein 300 pseudogene 1 | NR_026867, ENS | Coding | TRUE |
| zinc finger protein 300 pseudogene 1 | NR_026867, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262, ENS | Coding | TRUE |
| serine active site containing 1 | NM_032861, ENS | Coding | TRUE |
| serine active site containing 1 | NM_032861, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| ATP-binding cassette, sub-family A (ABC1), member 1 | NM_152701, ENS | Coding | TRUE |
| tripartite motif containing 74, tripartite motif containing | NM_198853, ENS | Coding | TRUE |
| tripartite motif containing 74, tripartite motif containing | NM_198853, ENS | Coding | TRUE |
| tripartite motif containing 74, tripartite motif containing | NM_198853, ENS | Coding | TRUE |
| tripartite motif containing 74, tripartite motif containing | NM_198853, ENS | Coding | TRUE |
| brain and acute leukemia, cytoplasmic | NM_001024372, ENS | Coding | TRUE |
| brain and acute leukemia, cytoplasmic | NM_001024372, ENS | Coding | TRUE |
| brain and acute leukemia, cytoplasmic | NM_001024372, ENS | Coding | TRUE |
| brain and acute leukemia, cytoplasmic | NM_001024372, ENS | Coding | TRUE |
| brain and acute leukemia, cytoplasmic | NM_001024372, ENS | Coding | TRUE |
| brain and acute leukemia, cytoplasmic | NM_001024372, ENS | Coding | TRUE |
| glutathione reductase | NM_000637, NM | Coding | TRUE |
| glutathione reductase | NM_000637, NM | Coding | TRUE |
| solute carrier family 28 (sodium-coupled nucleoside tra | NM_001199633, NM | Coding | TRUE |
| solute carrier family 28 (sodium-coupled nucleoside tra | NM_001199633, NM | Coding | TRUE |
| solute carrier family 28 (sodium-coupled nucleoside tra | NM_001199633, NM | Coding | TRUE |
| solute carrier family 28 (sodium-coupled nucleoside tra | NM_001199633, NM | Coding | TRUE |
| solute carrier family 28 (sodium-coupled nucleoside tra | NM_001199633, NM | Coding | TRUE |
| emopamil binding protein (sterol isomerase) | NM_006579, ENS | Coding | TRUE |
| emopamil binding protein (sterol isomerase) | NM_006579, ENS | Coding | TRUE |
| emopamil binding protein (sterol isomerase) | NM_006579, ENS | Coding | TRUE |
| emopamil binding protein (sterol isomerase) | NM_006579, ENS | Coding | TRUE |
| emopamil binding protein (sterol isomerase) | NM_006579, ENS | Coding | TRUE |
| emopamil binding protein (sterol isomerase) | NM_006579, ENS | Coding | TRUE |
| calsyntenin 3 | NM_014718, ENS | Coding | TRUE |
| calsyntenin 3 | NM_014718, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| phosphoinositide-3-kinase, regulatory subunit 3 (gamn | NM_001114172, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 3 (gamn | NM_001114172, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 3 (gamn | NM_001114172, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 3 (gamn | NM_001114172, | Coding | TRUE |
| phosphoinositide-3-kinase, regulatory subunit 3 (gamn | NM_001114172, | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| latent transforming growth factor beta binding protein 1 | NM_000627, NM | Coding | TRUE |
| STEAP family member 3, metalloredutase | NM_001008410, | Coding | TRUE |
| STEAP family member 3, metalloredutase | NM_001008410, | Coding | TRUE |
| STEAP family member 3, metalloredutase | NM_001008410, | Coding | TRUE |
| CASP8 and FADD-like apoptosis regulator | NM_001127183, | Coding | TRUE |
| CASP8 and FADD-like apoptosis regulator | NM_001127183, | Coding | TRUE |
| CASP8 and FADD-like apoptosis regulator | NM_001127183, | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| protein phosphatase 1, catalytic subunit, beta isozyme | NM_002709, NM | Coding | TRUE |
| ubiquitin-conjugating enzyme E2F (putative) | NM_080678, ENS | Coding | TRUE |
| ubiquitin-conjugating enzyme E2F (putative) | NM_080678, ENS | Coding | TRUE |
| ubiquitin-conjugating enzyme E2F (putative) | NM_080678, ENS | Coding | TRUE |
| ubiquitin-conjugating enzyme E2F (putative) | NM_080678, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_001195483, | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_001195483, | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_001195483, | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_001195483, | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_001195483, | Coding | TRUE |
| solute carrier family 12 (potassium/chloride transporter | NM_001195483, | Coding | TRUE |
| REL2-like 2 | NM_001130029, | Coding | TRUE |
| REL2-like 2 | NM_001130029, | Coding | TRUE |
| drebrin 1 | NM_004395, NM | Coding | TRUE |
| drebrin 1 | NM_004395, NM | Coding | TRUE |
| drebrin 1 | NM_004395, NM | Coding | TRUE |
| drebrin 1 | NM_004395, NM | Coding | TRUE |
| dystrobrevin binding protein 1 | NM_032122, NM | Coding | TRUE |
| dystrobrevin binding protein 1 | NM_032122, NM | Coding | TRUE |
| T cell receptor beta variable 27 | ENST000003903 | Coding | TRUE |
| T cell receptor beta variable 27 | ENST000003903 | Coding | TRUE |
| T cell receptor beta variable 27 | ENST000003903 | Coding | TRUE |
| tripartite motif containing 50 | NM_178125, ENS | Coding | TRUE |
| tripartite motif containing 50 | NM_178125, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| tetratricopeptide repeat domain 13 | NM_001122835, | Coding | TRUE |
| tetratricopeptide repeat domain 13 | NM_001122835, | Coding | TRUE |
| tetratricopeptide repeat domain 13 | NM_001122835, | Coding | TRUE |
| family with sequence similarity 82, member A1 | NM_001170792, | Coding | TRUE |
| family with sequence similarity 82, member A1 | NM_001170792, | Coding | TRUE |
| family with sequence similarity 82, member A1 | NM_001170792, | Coding | TRUE |
| family with sequence similarity 82, member A1 | NM_001170792, | Coding | TRUE |
| general transcription factor IIA, 1-like, STON1-GTF2A | NM_001193487, | Coding | TRUE |
| general transcription factor IIA, 1-like, STON1-GTF2A | NM_001193487, | Coding | TRUE |
| general transcription factor IIA, 1-like, STON1-GTF2A | NM_001193487, | Coding | TRUE |
| general transcription factor IIA, 1-like, STON1-GTF2A | NM_001193487, | Coding | TRUE |
| general transcription factor IIA, 1-like, STON1-GTF2A | NM_001193487, | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| fibroblast activation protein, alpha | NM_004460, ENS | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| zinc finger protein 385B | NM_001113397, I | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| ribosomal protein SA, small nucleolar RNA, H/ACA box | NM_001012321, | Coding | TRUE |
| ribosomal protein SA, small nucleolar RNA, H/ACA box | NM_001012321, | Coding | TRUE |
| chromosome 5 open reading frame 22 | NM_018356, ENS | Coding | TRUE |
| chromosome 5 open reading frame 22 | NM_018356, ENS | Coding | TRUE |
| chromosome 5 open reading frame 22 | NM_018356, ENS | Coding | TRUE |
| chromosome 5 open reading frame 22 | NM_018356, ENS | Coding | TRUE |
| chromosome 5 open reading frame 22 | NM_018356, ENS | Coding | TRUE |
| Mab-21 domain containing 1 | NM_138441, ENS | Coding | TRUE |
| Mab-21 domain containing 1 | NM_138441, ENS | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 12 | NM_001131008, I | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 12 | NM_001131008, I | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 12 | NM_001131008, I | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 12 | NM_001131008, I | Coding | TRUE |
| protein tyrosine phosphatase, non-receptor type 12 | NM_001131008, I | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| paternally expressed 10 | NM_001040152, | Coding | TRUE |
| KRAB-A domain containing 1 | NM_032534, ENS | Coding | TRUE |
| KRAB-A domain containing 1 | NM_032534, ENS | Coding | TRUE |
| Src-like-adaptor | NM_001045556, | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| Src-like-adaptor | NM_001045556, | Coding | TRUE |
| Src-like-adaptor | NM_001045556, | Coding | TRUE |
| Src-like-adaptor | NM_001045556, | Coding | TRUE |
| Src-like-adaptor | NM_001045556, | Coding | TRUE |
| Src-like-adaptor | NM_001045556, | Coding | TRUE |
| Src-like-adaptor | NM_001045556, | Coding | TRUE |
| SH3-domain kinase binding protein 1 | NM_001024666, | Coding | TRUE |
| SH3-domain kinase binding protein 1 | NM_001024666, | Coding | TRUE |
| SH3-domain kinase binding protein 1 | NM_001024666, | Coding | TRUE |
| zinc finger protein 37A | NM_001007094, | Coding | TRUE |
| zinc finger protein 37A | NM_001007094, | Coding | TRUE |
| zinc finger protein 37A | NM_001007094, | Coding | TRUE |
| uncharacterized LOC100505761 | NR_038937, NR_ | Coding | TRUE |
| uncharacterized LOC100505761 | NR_038937, NR_ | Coding | TRUE |
| uncharacterized LOC100505933 | NR_038943 | Coding | TRUE |
| uncharacterized LOC100505933 | NR_038943 | Coding | TRUE |
| uncharacterized LOC100505933 | NR_038943 | Coding | TRUE |
| uncharacterized LOC100505933 | NR_038943 | Coding | TRUE |
| uncharacterized LOC100505933 | NR_038943 | Coding | TRUE |
| uncharacterized LOC100505933 | NR_038943 | Coding | TRUE |
| Rho GTPase activating protein 9 | NM_032496, NM_ | Coding | TRUE |
| Rho GTPase activating protein 9 | NM_032496, NM_ | Coding | TRUE |
| Rho GTPase activating protein 9 | NM_032496, NM_ | Coding | TRUE |
| Rho GTPase activating protein 9 | NM_032496, NM_ | Coding | TRUE |
| Rho GTPase activating protein 9 | NM_032496, NM_ | Coding | TRUE |
| insulin-like growth factor 1 (somatomedin C) | NM_001111283, I | Coding | TRUE |
| insulin-like growth factor 1 (somatomedin C) | NM_001111283, I | Coding | TRUE |
| insulin-like growth factor 1 (somatomedin C) | NM_001111283, I | Coding | TRUE |
| ankyrin repeat and LEM domain containing 2 | NM_015114, ENS | Coding | TRUE |
| ankyrin repeat and LEM domain containing 2 | NM_015114, ENS | Coding | TRUE |
| ankyrin repeat and LEM domain containing 2 | NM_015114, ENS | Coding | TRUE |
| ankyrin repeat and LEM domain containing 2 | NM_015114, ENS | Coding | TRUE |
| Bardet-Biedl syndrome 4 | NM_001252678, | Coding | TRUE |
| Bardet-Biedl syndrome 4 | NM_001252678, | Coding | TRUE |
| septin 1 | NM_052838, ENS | Coding | TRUE |
| septin 1 | NM_052838, ENS | Coding | TRUE |
| septin 1 | NM_052838, ENS | Coding | TRUE |
| septin 1 | NM_052838, ENS | Coding | TRUE |
| septin 1 | NM_052838, ENS | Coding | TRUE |
| endonuclease V, uncharacterized LOC100507440 | NM_001164637, | Coding | TRUE |
| endonuclease V, uncharacterized LOC100507440 | NM_001164637, | Coding | TRUE |
| endonuclease V, uncharacterized LOC100507440 | NM_001164637, | Coding | TRUE |
| endonuclease V, uncharacterized LOC100507440 | NM_001164637, | Coding | TRUE |
| endonuclease V, uncharacterized LOC100507440 | NM_001164637, | Coding | TRUE |
| carcinoembryonic antigen-related cell adhesion molecul | NM_001815, ENS | Coding | TRUE |
| carcinoembryonic antigen-related cell adhesion molecul | NM_001815, ENS | Coding | TRUE |
| carcinoembryonic antigen-related cell adhesion molecul | NM_001815, ENS | Coding | TRUE |
| paraneoplastic Ma antigen family-like 1 | NM_001103149, | Coding | TRUE |
| paraneoplastic Ma antigen family-like 1 | NM_001103149, | Coding | TRUE |
| paraneoplastic Ma antigen family-like 1 | NM_001103149, | Coding | TRUE |
| zinc finger protein 577 | NM_001135590, | Coding | TRUE |
| zinc finger protein 577 | NM_001135590, | Coding | TRUE |
| zinc finger protein 577 | NM_001135590, | Coding | TRUE |
| ciliary rootlet coiled-coil, rootletin pseudogene 3 | NR_023386 | Coding | TRUE |
| ciliary rootlet coiled-coil, rootletin pseudogene 3 | NR_023386 | Coding | TRUE |
| ciliary rootlet coiled-coil, rootletin pseudogene 3 | NR_023386 | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| putative homeodomain transcription factor 1 | NM_006608, ENS | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| glutamate-ammonia ligase | NM_001033044, | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| sarcolemma associated protein, uncharacterized LOC | NM_007159, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| phospholipid scramblase 1 | NM_021105, ENS | Coding | TRUE |
| family with sequence similarity 114, member A2 | NM_018691, ENS | Coding | TRUE |
| family with sequence similarity 114, member A2 | NM_018691, ENS | Coding | TRUE |
| uncharacterized LOC100507367 | ENST000004127 | Coding | TRUE |
| uncharacterized LOC100507367 | ENST000004127 | Coding | TRUE |
| uncharacterized LOC100507367 | ENST000004127 | Coding | TRUE |
| uncharacterized LOC100507367 | ENST000004127 | Coding | TRUE |
| uncharacterized LOC100507367 | ENST000004127 | Coding | TRUE |
| major histocompatibility complex, class I, G | NM_002127, ENS | Coding | TRUE |
| major histocompatibility complex, class I, G | NM_002127, ENS | Coding | TRUE |
| UTP23, small subunit (SSU) processome component, | NM_032334, ENS | Coding | TRUE |
| UTP23, small subunit (SSU) processome component, | NM_032334, ENS | Coding | TRUE |
| UTP23, small subunit (SSU) processome component, | NM_032334, ENS | Coding | TRUE |
| UTP23, small subunit (SSU) processome component, | NM_032334, ENS | Coding | TRUE |
| UTP23, small subunit (SSU) processome component, | NM_032334, ENS | Coding | TRUE |
| DEP domain containing MTOR-interacting protein | NM_022783, ENS | Coding | TRUE |
| DEP domain containing MTOR-interacting protein | NM_022783, ENS | Coding | TRUE |
| cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK | NM_004936, NM | Coding | TRUE |
| cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK | NM_004936, NM | Coding | TRUE |
| aldehyde dehydrogenase 1 family, member A1 | NM_000689, ENS | Coding | TRUE |
| aldehyde dehydrogenase 1 family, member A1 | NM_000689, ENS | Coding | TRUE |
| TBC1 domain family, member 12 | NM_015188, ENS | Coding | TRUE |
| TBC1 domain family, member 12 | NM_015188, ENS | Coding | TRUE |
| TBC1 domain family, member 12 | NM_015188, ENS | Coding | TRUE |
| TBC1 domain family, member 12 | NM_015188, ENS | Coding | TRUE |
| adducin 3 (gamma) | NM_001121, NM | Coding | TRUE |
| adducin 3 (gamma) | NM_001121, NM | Coding | TRUE |

| | | | |
|--|----------------------------|--------|------|
| adducin 3 (gamma) | NM_001121, NM_001121 | Coding | TRUE |
| adducin 3 (gamma) | NM_001121, NM_001121 | Coding | TRUE |
| adducin 3 (gamma) | NM_001121, NM_001121 | Coding | TRUE |
| adducin 3 (gamma) | NM_001121, NM_001121 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| SH3 and PX domains 2A | NM_014631, ENS014631 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| CD59 molecule, complement regulatory protein, chrom | NM_000611, NM_000611 | Coding | TRUE |
| CD59 molecule, complement regulatory protein, chrom | NM_000611, NM_000611 | Coding | TRUE |
| CD59 molecule, complement regulatory protein, chrom | NM_000611, NM_000611 | Coding | TRUE |
| transmembrane 7 superfamily member 3 | NM_016551, ENS016551 | Coding | TRUE |
| transmembrane 7 superfamily member 3 | NM_016551, ENS016551 | Coding | TRUE |
| transmembrane 7 superfamily member 3 | NM_016551, ENS016551 | Coding | TRUE |
| family with sequence similarity 109, member A | NM_001177996, NM_001177996 | Coding | TRUE |
| family with sequence similarity 109, member A | NM_001177996, NM_001177996 | Coding | TRUE |
| family with sequence similarity 109, member A | NM_001177996, NM_001177996 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_001122636, NM_001122636 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_001122636, NM_001122636 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_001122636, NM_001122636 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_001122636, NM_001122636 | Coding | TRUE |
| ribonuclease P/MRP 25kDa subunit | NM_017793, ENS017793 | Coding | TRUE |
| ribonuclease P/MRP 25kDa subunit | NM_017793, ENS017793 | Coding | TRUE |
| ribonuclease P/MRP 25kDa subunit | NM_017793, ENS017793 | Coding | TRUE |
| LUC7-like 3 (S. cerevisiae) | NM_006107, NM_006107 | Coding | TRUE |
| LUC7-like 3 (S. cerevisiae) | NM_006107, NM_006107 | Coding | TRUE |
| LUC7-like 3 (S. cerevisiae) | NM_006107, NM_006107 | Coding | TRUE |
| MIR22 host gene (non-protein coding), microRNA 22 | NR_028502, NR_028502 | Coding | TRUE |
| MIR22 host gene (non-protein coding), microRNA 22 | NR_028502, NR_028502 | Coding | TRUE |
| MIR22 host gene (non-protein coding), microRNA 22 | NR_028502, NR_028502 | Coding | TRUE |
| MIR22 host gene (non-protein coding), microRNA 22 | NR_028502, NR_028502 | Coding | TRUE |
| MIR22 host gene (non-protein coding), microRNA 22 | NR_028502, NR_028502 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_020474, ENS020474 | Coding | TRUE |
| UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-a | NM_020474, ENS020474 | Coding | TRUE |
| cadherin 2, type 1, N-cadherin (neuronal) | NM_001792, ENS001792 | Coding | TRUE |
| cadherin 2, type 1, N-cadherin (neuronal) | NM_001792, ENS001792 | Coding | TRUE |
| cadherin 2, type 1, N-cadherin (neuronal) | NM_001792, ENS001792 | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM_002243 | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM_002243 | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM_002243 | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM_002243 | Coding | TRUE |

| | | | |
|--|------------------|--------|------|
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| potassium inwardly-rectifying channel, subfamily J, me | NM_002243, NM | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| pyridoxal (pyridoxine, vitamin B6) kinase | NM_003681, ENS | Coding | TRUE |
| trafficking protein particle complex 10 | NM_003274, ENS | Coding | TRUE |
| trafficking protein particle complex 10 | NM_003274, ENS | Coding | TRUE |
| trafficking protein particle complex 10 | NM_003274, ENS | Coding | TRUE |
| trafficking protein particle complex 10 | NM_003274, ENS | Coding | TRUE |
| trafficking protein particle complex 10 | NM_003274, ENS | Coding | TRUE |
| trafficking protein particle complex 10 | NM_003274, ENS | Coding | TRUE |
| proline/arginine-rich end leucine-rich repeat protein | NM_002725, NM | Coding | TRUE |
| proline/arginine-rich end leucine-rich repeat protein | NM_002725, NM | Coding | TRUE |
| proline/arginine-rich end leucine-rich repeat protein | NM_002725, NM | Coding | TRUE |
| GC-rich sequence DNA-binding factor 2 | NM_001201334, NM | Coding | TRUE |
| GC-rich sequence DNA-binding factor 2 | NM_001201334, NM | Coding | TRUE |
| activating transcription factor 2 | NM_001880, NM | Coding | TRUE |
| activating transcription factor 2 | NM_001880, NM | Coding | TRUE |
| activating transcription factor 2 | NM_001880, NM | Coding | TRUE |
| activating transcription factor 2 | NM_001880, NM | Coding | TRUE |
| 3-hydroxyisobutyryl-CoA hydrolase | NM_014362, NM | Coding | TRUE |
| 3-hydroxyisobutyryl-CoA hydrolase | NM_014362, NM | Coding | TRUE |
| charged multivesicular body protein 2B | NM_001244644, NM | Coding | TRUE |
| charged multivesicular body protein 2B | NM_001244644, NM | Coding | TRUE |
| charged multivesicular body protein 2B | NM_001244644, NM | Coding | TRUE |
| charged multivesicular body protein 2B | NM_001244644, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| signal recognition particle 19kDa | NM_001204193, NM | Coding | TRUE |
| desmoplakin | NM_001008844, NM | Coding | TRUE |
| desmoplakin | NM_001008844, NM | Coding | TRUE |
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |
| PTK7 protein tyrosine kinase 7 | NM_002821, NM | Coding | TRUE |
| uncharacterized LOC100134216, mucin 3B, cell surfac | ENST000003195 | Coding | TRUE |
| uncharacterized LOC100134216, mucin 3B, cell surfac | ENST000003195 | Coding | TRUE |
| uncharacterized LOC100134216, mucin 3B, cell surfac | ENST000003195 | Coding | TRUE |
| SRSF protein kinase 2 | NM_182692, NM | Coding | TRUE |
| SRSF protein kinase 2 | NM_182692, NM | Coding | TRUE |
| solute carrier family 9, subfamily A (NHE7, cation protc | NM_032591, ENS | Coding | TRUE |
| solute carrier family 9, subfamily A (NHE7, cation protc | NM_032591, ENS | Coding | TRUE |
| solute carrier family 9, subfamily A (NHE7, cation protc | NM_032591, ENS | Coding | TRUE |
| solute carrier family 9, subfamily A (NHE7, cation protc | NM_032591, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| melanoma cell adhesion molecule | NM_006500, ENS | Coding | TRUE |
| N(alpha)-acetyltransferase 16, NatA auxiliary subunit | NM_024561, NM | Coding | TRUE |
| N(alpha)-acetyltransferase 16, NatA auxiliary subunit | NM_024561, NM | Coding | TRUE |
| N(alpha)-acetyltransferase 16, NatA auxiliary subunit | NM_024561, NM | Coding | TRUE |
| N(alpha)-acetyltransferase 16, NatA auxiliary subunit | NM_024561, NM | Coding | TRUE |
| N(alpha)-acetyltransferase 16, NatA auxiliary subunit | NM_024561, NM | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| cyclin-dependent kinase-like 1 (CDC2-related kinase) | NM_004196, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| cell division cycle 6 homolog (S. cerevisiae) | NM_001254, ENS | Coding | TRUE |
| cell division cycle 6 homolog (S. cerevisiae) | NM_001254, ENS | Coding | TRUE |
| smg-6 homolog, nonsense mediated mRNA decay fac | NM_017575, NM | Coding | TRUE |
| smg-6 homolog, nonsense mediated mRNA decay fac | NM_017575, NM | Coding | TRUE |
| smg-6 homolog, nonsense mediated mRNA decay fac | NM_017575, NM | Coding | TRUE |
| smg-6 homolog, nonsense mediated mRNA decay fac | NM_017575, NM | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| alanyl-tRNA synthetase domain containing 1, PTGES3 | ENST000003602 | Coding | TRUE |
| transmembrane channel-like 6 | NM_007267, NM | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| transmembrane channel-like 6 | NM_007267, NM | Coding | TRUE |
| transmembrane channel-like 6 | NM_007267, NM | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| chromosome 18 open reading frame 1 | NM_001003674, | Coding | TRUE |
| zinc finger protein 397 | NM_001135178, | Coding | TRUE |
| zinc finger protein 397 | NM_001135178, | Coding | TRUE |
| zinc finger protein 397 | NM_001135178, | Coding | TRUE |
| syntaxin binding protein 2 | NM_001127396, | Coding | TRUE |
| syntaxin binding protein 2 | NM_001127396, | Coding | TRUE |
| syntaxin binding protein 2 | NM_001127396, | Coding | TRUE |
| syntaxin binding protein 2 | NM_001127396, | Coding | TRUE |
| syntaxin binding protein 2 | NM_001127396, | Coding | TRUE |
| syntaxin binding protein 2 | NM_001127396, | Coding | TRUE |
| chromosome 21 open reading frame 7 | NM_020152, ENS | Coding | TRUE |
| chromosome 21 open reading frame 7 | NM_020152, ENS | Coding | TRUE |
| chromosome 21 open reading frame 7 | NM_020152, ENS | Coding | TRUE |
| chromosome 21 open reading frame 7 | NM_020152, ENS | Coding | TRUE |
| N-acetylgalactosaminidase, alpha- | NM_000262, ENS | Coding | TRUE |
| N-acetylgalactosaminidase, alpha- | NM_000262, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| aspartyl-tRNA synthetase 2, mitochondrial | NM_018122, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase 2, mitochondrial | NM_018122, ENS | Coding | TRUE |
| aspartyl-tRNA synthetase 2, mitochondrial | NM_018122, ENS | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| REM2 and RAB-like small GTPase 1, chromosome 1 c | NM_030907, BCC | Coding | TRUE |
| family with sequence similarity 105, member B | NM_138348, ENS | Coding | TRUE |
| family with sequence similarity 105, member B | NM_138348, ENS | Coding | TRUE |
| threonyl-tRNA synthetase | NM_152295, ENS | Coding | TRUE |
| threonyl-tRNA synthetase | NM_152295, ENS | Coding | TRUE |
| threonyl-tRNA synthetase | NM_152295, ENS | Coding | TRUE |
| threonyl-tRNA synthetase | NM_152295, ENS | Coding | TRUE |
| chromosome 8 open reading frame 74 | NM_001040032, | Coding | TRUE |
| chromosome 8 open reading frame 74 | NM_001040032, | Coding | TRUE |
| chromosome 8 open reading frame 74 | NM_001040032, | Coding | TRUE |
| chromosome 8 open reading frame 74 | NM_001040032, | Coding | TRUE |
| Fas (TNF receptor superfamily, member 6) | NM_000043, NM | Coding | TRUE |
| Fas (TNF receptor superfamily, member 6) | NM_000043, NM | Coding | TRUE |
| Fas (TNF receptor superfamily, member 6) | NM_000043, NM | Coding | TRUE |
| carosine synthase 1 | NM_020811, NM | Coding | TRUE |
| carosine synthase 1 | NM_020811, NM | Coding | TRUE |
| uncharacterized LOC100505554 | ENST000005251 | Coding | TRUE |
| uncharacterized LOC100505554 | ENST000005251 | Coding | TRUE |
| density-regulated protein | NM_003677, ENS | Coding | TRUE |
| density-regulated protein | NM_003677, ENS | Coding | TRUE |
| density-regulated protein | NM_003677, ENS | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| proprotein convertase subtilisin/kexin type 5 | NM_001190482, | Coding | TRUE |
| PRP18 pre-mRNA processing factor 18 homolog (S. ca | NM_003675, ENS | Coding | TRUE |
| PRP18 pre-mRNA processing factor 18 homolog (S. ca | NM_003675, ENS | Coding | TRUE |
| PRP18 pre-mRNA processing factor 18 homolog (S. ca | NM_003675, ENS | Coding | TRUE |
| chromosome 10 open reading frame 57 | NM_025125, ENS | Coding | TRUE |
| chromosome 10 open reading frame 57 | NM_025125, ENS | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| 5-nucleotidase, cytosolic II | NM_001134373, | Coding | TRUE |
| stromal interaction molecule 1, microRNA 4687 | NM_003156, NR | Coding | TRUE |
| stromal interaction molecule 1, microRNA 4687 | NM_003156, NR | Coding | TRUE |
| replication factor C (activator 1) 5, 36.5kDa | NM_001130112, I | Coding | TRUE |
| replication factor C (activator 1) 5, 36.5kDa | NM_001130112, I | Coding | TRUE |
| keratin 8 | NM_001256282, | Coding | TRUE |
| keratin 8 | NM_001256282, | Coding | TRUE |
| keratin 8 | NM_001256282, | Coding | TRUE |
| keratin 8 | NM_001256282, | Coding | TRUE |
| CKLF-like MARVEL transmembrane domain containing | NR_037613, NM | Coding | TRUE |
| CKLF-like MARVEL transmembrane domain containing | NR_037613, NM | Coding | TRUE |
| N-ethylmaleimide-sensitive factor, N-ethylmaleimide-se | NM_006178, NR | Coding | TRUE |
| N-ethylmaleimide-sensitive factor, N-ethylmaleimide-se | NM_006178, NR | Coding | TRUE |
| N-ethylmaleimide-sensitive factor, N-ethylmaleimide-se | NM_006178, NR | Coding | TRUE |
| sterile alpha and TIR motif containing 1 | NM_015077, ENS | Coding | TRUE |
| sterile alpha and TIR motif containing 1 | NM_015077, ENS | Coding | TRUE |
| sterile alpha and TIR motif containing 1 | NM_015077, ENS | Coding | TRUE |
| sterile alpha and TIR motif containing 1 | NM_015077, ENS | Coding | TRUE |
| CTD (carboxy-terminal domain, RNA polymerase II, pc | NM_004715, NM | Coding | TRUE |
| CTD (carboxy-terminal domain, RNA polymerase II, pc | NM_004715, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| regulator of chromosome condensation 1, small nucle | NM_001048199, | Coding | TRUE |
| regulator of chromosome condensation 1, small nucle | NM_001048199, | Coding | TRUE |
| regulator of chromosome condensation 1, small nucle | NM_001048199, | Coding | TRUE |
| regulator of chromosome condensation 1, small nucle | NM_001048199, | Coding | TRUE |
| regulator of chromosome condensation 1, small nucle | NM_001048199, | Coding | TRUE |
| uncharacterized LOC100508047 | ENST000004245 | Coding | TRUE |
| uncharacterized LOC100508047 | ENST000004245 | Coding | TRUE |
| kelch repeat and BTB (POZ) domain containing 8 | NM_032505, ENS | Coding | TRUE |
| kelch repeat and BTB (POZ) domain containing 8 | NM_032505, ENS | Coding | TRUE |
| kelch repeat and BTB (POZ) domain containing 8 | NM_032505, ENS | Coding | TRUE |
| nitrilase family, member 2 | NM_020202, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| nitrilase family, member 2 | NM_020202, ENS | Coding | TRUE |
| LPS-responsive vesicle trafficking, beach and anchor c | NM_006726, NM | Coding | TRUE |
| LPS-responsive vesicle trafficking, beach and anchor c | NM_006726, NM | Coding | TRUE |
| LPS-responsive vesicle trafficking, beach and anchor c | NM_006726, NM | Coding | TRUE |
| LPS-responsive vesicle trafficking, beach and anchor c | NM_006726, NM | Coding | TRUE |
| LPS-responsive vesicle trafficking, beach and anchor c | NM_006726, NM | Coding | TRUE |
| LPS-responsive vesicle trafficking, beach and anchor c | NM_006726, NM | Coding | TRUE |
| NudC domain containing 2 | NM_145266, ENS | Coding | TRUE |
| NudC domain containing 2 | NM_145266, ENS | Coding | TRUE |
| NudC domain containing 2 | NM_145266, ENS | Coding | TRUE |
| NudC domain containing 2 | NM_145266, ENS | Coding | TRUE |
| coagulation factor XII (Hageman factor) | NM_000505, ENS | Coding | TRUE |
| coagulation factor XII (Hageman factor) | NM_000505, ENS | Coding | TRUE |
| coagulation factor XII (Hageman factor) | NM_000505, ENS | Coding | TRUE |
| prickle homolog 4 (Drosophila), translocase of outer m | NM_013397, NM | Coding | TRUE |
| prickle homolog 4 (Drosophila), translocase of outer m | NM_013397, NM | Coding | TRUE |
| prickle homolog 4 (Drosophila), translocase of outer m | NM_013397, NM | Coding | TRUE |
| zinc and ring finger 2 pseudogene 1 | NR_003502 | Coding | TRUE |
| zinc and ring finger 2 pseudogene 1 | NR_003502 | Coding | TRUE |
| zinc and ring finger 2 pseudogene 1 | NR_003502 | Coding | TRUE |
| chromosome 7 open reading frame 73, uncharacterize | NM_001130929, | Coding | TRUE |
| chromosome 7 open reading frame 73, uncharacterize | NM_001130929, | Coding | TRUE |
| chromosome 7 open reading frame 73, uncharacterize | NM_001130929, | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 4 | NM_002612, ENS | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 4 | NM_002612, ENS | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 4 | NM_002612, ENS | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 4 | NM_002612, ENS | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 4 | NM_002612, ENS | Coding | TRUE |
| pyruvate dehydrogenase kinase, isozyme 4 | NM_002612, ENS | Coding | TRUE |
| syndecan binding protein (syntenin) | NM_005625, NM | Coding | TRUE |
| syndecan binding protein (syntenin) | NM_005625, NM | Coding | TRUE |
| uncharacterized LOC100128750 | ENST000005175 | Coding | TRUE |
| uncharacterized LOC100128750 | ENST000005175 | Coding | TRUE |
| uncharacterized LOC100128750 | ENST000005175 | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| family with sequence similarity 66, member A | NR_026789, ENS | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| prostaglandin-endoperoxide synthase 1 (prostaglandin | NM_000962, NM | Coding | TRUE |
| cancer/testis antigen family 45, member A5, cancer/tes | NM_001007551, | Coding | TRUE |
| cancer/testis antigen family 45, member A5, cancer/tes | NM_001007551, | Coding | TRUE |
| interleukin-1 receptor-associated kinase 3 | NM_001142523, | Coding | TRUE |
| interleukin-1 receptor-associated kinase 3 | NM_001142523, | Coding | TRUE |
| interleukin-1 receptor-associated kinase 3 | NM_001142523, | Coding | TRUE |
| interleukin-1 receptor-associated kinase 3 | NM_001142523, | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| HEAT repeat containing 3 | NM_182922, ENS | Coding | TRUE |
| HEAT repeat containing 3 | NM_182922, ENS | Coding | TRUE |
| HEAT repeat containing 3 | NM_182922, ENS | Coding | TRUE |
| HEAT repeat containing 3 | NM_182922, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 6 | NM_032221, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 6 | NM_032221, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 6 | NM_032221, ENS | Coding | TRUE |
| chromodomain helicase DNA binding protein 6 | NM_032221, ENS | Coding | TRUE |
| zinc finger protein 643 | NM_023070, ENS | Coding | TRUE |
| zinc finger protein 643 | NM_023070, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| galactose mutarotase (aldose 1-epimerase) | NM_138801, ENS | Coding | TRUE |
| CCDC74B antisense RNA 1 (non-protein coding) | NR_033903, ENS | Coding | TRUE |
| CCDC74B antisense RNA 1 (non-protein coding) | NR_033903, ENS | Coding | TRUE |
| TBC1 domain family, member 19 | NM_018317, ENS | Coding | TRUE |
| TBC1 domain family, member 19 | NM_018317, ENS | Coding | TRUE |
| TBC1 domain family, member 19 | NM_018317, ENS | Coding | TRUE |
| small EDRK-rich factor 1B (centromeric), small EDRK- | NM_001178087, I | Coding | TRUE |
| small EDRK-rich factor 1B (centromeric), small EDRK- | NM_001178087, I | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| platelet-derived growth factor receptor, beta polypeptid | NM_002609, ENS | Coding | TRUE |
| lysine (K)-specific demethylase 1B | NM_153042, ENS | Coding | TRUE |
| lysine (K)-specific demethylase 1B | NM_153042, ENS | Coding | TRUE |
| lysine (K)-specific demethylase 1B | NM_153042, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| R3H domain and coiled-coil containing 1 | NM_001136108, I | Coding | TRUE |
| R3H domain and coiled-coil containing 1 | NM_001136108, I | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| tropomodulin 1 | NM_001166116, I | Coding | TRUE |
| tropomodulin 1 | NM_001166116, I | Coding | TRUE |
| tropomodulin 1 | NM_001166116, I | Coding | TRUE |
| tropomodulin 1 | NM_001166116, I | Coding | TRUE |
| ankyrin repeat and sterile alpha motif domain containir | NM_173551, ENS | Coding | TRUE |
| ankyrin repeat and sterile alpha motif domain containir | NM_173551, ENS | Coding | TRUE |
| MORC family CW-type zinc finger 4 | NM_024657, NM | Coding | TRUE |
| MORC family CW-type zinc finger 4 | NM_024657, NM | Coding | TRUE |
| muscleblind-like splicing regulator 3 | NM_001170701, I | Coding | TRUE |
| muscleblind-like splicing regulator 3 | NM_001170701, I | Coding | TRUE |
| muscleblind-like splicing regulator 3 | NM_001170701, I | Coding | TRUE |
| muscleblind-like splicing regulator 3 | NM_001170701, I | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| coiled-coil domain containing 69 | NM_015621, ENS | Coding | TRUE |
| coiled-coil domain containing 69 | NM_015621, ENS | Coding | TRUE |
| coiled-coil domain containing 69 | NM_015621, ENS | Coding | TRUE |
| coiled-coil domain containing 69 | NM_015621, ENS | Coding | TRUE |
| leucine rich repeat containing 1 | NM_018214, ENS | Coding | TRUE |
| leucine rich repeat containing 1 | NM_018214, ENS | Coding | TRUE |
| leucine rich repeat containing 1 | NM_018214, ENS | Coding | TRUE |
| leucine rich repeat containing 1 | NM_018214, ENS | Coding | TRUE |
| leucine rich repeat containing 1 | NM_018214, ENS | Coding | TRUE |
| protein kinase (cAMP-dependent, catalytic) inhibitor be | NM_032471, NM | Coding | TRUE |
| protein kinase (cAMP-dependent, catalytic) inhibitor be | NM_032471, NM | Coding | TRUE |
| protein kinase (cAMP-dependent, catalytic) inhibitor be | NM_032471, NM | Coding | TRUE |
| ataxin 1 | NM_001128164, | Coding | TRUE |
| ataxin 1 | NM_001128164, | Coding | TRUE |
| ataxin 1 | NM_001128164, | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| MAGI2 antisense RNA 3 (non-protein coding) | NR_038344, NR | Coding | TRUE |
| ubiquitin protein ligase E3C | NM_014671, ENS | Coding | TRUE |
| ubiquitin protein ligase E3C | NM_014671, ENS | Coding | TRUE |
| ubiquitin protein ligase E3C | NM_014671, ENS | Coding | TRUE |
| ubiquitin protein ligase E3C | NM_014671, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member | ENST000004205 | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member | ENST000004205 | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member | ENST000004205 | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member | ENST000004205 | Coding | TRUE |
| ADAM metallopeptidase domain 12 | NM_003474, NM | Coding | TRUE |
| ADAM metallopeptidase domain 12 | NM_003474, NM | Coding | TRUE |
| ADAM metallopeptidase domain 12 | NM_003474, NM | Coding | TRUE |
| ADAM metallopeptidase domain 12 | NM_003474, NM | Coding | TRUE |
| ADAM metallopeptidase domain 12 | NM_003474, NM | Coding | TRUE |
| ADAM metallopeptidase domain 12 | NM_003474, NM | Coding | TRUE |
| family with sequence similarity 111, member A | NM_001142519, | Coding | TRUE |
| family with sequence similarity 111, member A | NM_001142519, | Coding | TRUE |
| CTAGE family, member 5 | NM_001247989, | Coding | TRUE |
| CTAGE family, member 5 | NM_001247989, | Coding | TRUE |
| fibrillin 1 | NM_000138, ENS | Coding | TRUE |
| fibrillin 1 | NM_000138, ENS | Coding | TRUE |
| bromodomain containing 7 | NM_001173984, | Coding | TRUE |
| bromodomain containing 7 | NM_001173984, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1, | NM_001135036, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1, | NM_001135036, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1, | NM_001135036, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1, | NM_001135036, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| family with sequence similarity 18, member B2, CMT1 | NM_001135036, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1 | NM_001135036, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1 | NM_001135036, | Coding | TRUE |
| family with sequence similarity 18, member B2, CMT1 | NM_001135036, | Coding | TRUE |
| lectin, galactoside-binding, soluble, 3 binding protein | NM_005567, ENS | Coding | TRUE |
| lectin, galactoside-binding, soluble, 3 binding protein | NM_005567, ENS | Coding | TRUE |
| lectin, galactoside-binding, soluble, 3 binding protein | NM_005567, ENS | Coding | TRUE |
| placenta-specific 2 (non-protein coding) | NR_027064, ENS | Coding | TRUE |
| placenta-specific 2 (non-protein coding) | NR_027064, ENS | Coding | TRUE |
| placenta-specific 2 (non-protein coding) | NR_027064, ENS | Coding | TRUE |
| IGF-like family member 3 | NM_207393, ENS | Coding | TRUE |
| IGF-like family member 3 | NM_207393, ENS | Coding | TRUE |
| IGF-like family member 3 | NM_207393, ENS | Coding | TRUE |
| chromosome 20 open reading frame 112 | NM_080616, ENS | Coding | TRUE |
| chromosome 20 open reading frame 112 | NM_080616, ENS | Coding | TRUE |
| chromosome 20 open reading frame 112 | NM_080616, ENS | Coding | TRUE |
| histocompatibility antigen-related | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related | NM_001207043, | Coding | TRUE |
| histocompatibility antigen-related | NM_001207043, | Coding | TRUE |
| amylase, alpha 1A (salivary), amylase, alpha 1B (saliv | NM_004038, NM | Coding | TRUE |
| amylase, alpha 1A (salivary), amylase, alpha 1B (saliv | NM_004038, NM | Coding | TRUE |
| tetratricopeptide repeat domain 31 | NM_022492, NR | Coding | TRUE |
| tetratricopeptide repeat domain 31 | NM_022492, NR | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| protein S (alpha) | NM_000313, ENS | Coding | TRUE |
| protein S (alpha) | NM_000313, ENS | Coding | TRUE |
| protein S (alpha) | NM_000313, ENS | Coding | TRUE |
| protein S (alpha) | NM_000313, ENS | Coding | TRUE |
| protein S (alpha) | NM_000313, ENS | Coding | TRUE |
| protein S (alpha) | NM_000313, ENS | Coding | TRUE |
| hyaluronoglucosaminidase 3 | NM_001200029, | Coding | TRUE |
| hyaluronoglucosaminidase 3 | NM_001200029, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| family with sequence similarity 198, member B | NM_001031700, | Coding | TRUE |
| caspase 3, apoptosis-related cysteine peptidase | NM_004346, NM | Coding | TRUE |
| caspase 3, apoptosis-related cysteine peptidase | NM_004346, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| claudin 4 | NM_001305, ENS | Coding | TRUE |
| claudin 4 | NM_001305, ENS | Coding | TRUE |
| p53-induced death domain protein | NM_145886, NM | Coding | TRUE |
| p53-induced death domain protein | NM_145886, NM | Coding | TRUE |
| methionyl-tRNA synthetase | NM_004990, ENS | Coding | TRUE |
| methionyl-tRNA synthetase | NM_004990, ENS | Coding | TRUE |
| methionyl-tRNA synthetase | NM_004990, ENS | Coding | TRUE |
| methionyl-tRNA synthetase | NM_004990, ENS | Coding | TRUE |
| methionyl-tRNA synthetase | NM_004990, ENS | Coding | TRUE |
| methionyl-tRNA synthetase | NM_004990, ENS | Coding | TRUE |
| RAP1B, member of RAS oncogene family | NM_001010942, | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| lymphocyte antigen 6 complex, locus G5C | NM_025262 | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262 | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262 | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262 | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262 | Coding | TRUE |
| lymphocyte antigen 6 complex, locus G5C | NM_025262 | Coding | TRUE |
| family with sequence similarity 183, member A | NM_001101376 | Coding | TRUE |
| family with sequence similarity 183, member A | NM_001101376 | Coding | TRUE |
| fatty acid amide hydrolase | NM_001441, ENS | Coding | TRUE |
| fatty acid amide hydrolase | NM_001441, ENS | Coding | TRUE |
| potassium voltage-gated channel, delayed-rectifier, su | NM_002252, ENS | Coding | TRUE |
| potassium voltage-gated channel, delayed-rectifier, su | NM_002252, ENS | Coding | TRUE |
| potassium voltage-gated channel, delayed-rectifier, su | NM_002252, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| Hermansky-Pudlak syndrome 3 | NM_032383, ENS | Coding | TRUE |
| TCDD-inducible poly(ADP-ribose) polymerase | NM_001184717 | Coding | TRUE |
| TCDD-inducible poly(ADP-ribose) polymerase | NM_001184717 | Coding | TRUE |
| coiled-coil domain containing 149 | NM_001130726 | Coding | TRUE |
| coiled-coil domain containing 149 | NM_001130726 | Coding | TRUE |
| coiled-coil domain containing 149 | NM_001130726 | Coding | TRUE |
| coiled-coil domain containing 149 | NM_001130726 | Coding | TRUE |
| syntaxin binding protein 5 (tomosyn) | NM_001127715 | Coding | TRUE |
| syntaxin binding protein 5 (tomosyn) | NM_001127715 | Coding | TRUE |
| syntaxin binding protein 5 (tomosyn) | NM_001127715 | Coding | TRUE |
| inhibitor of growth family, member 3 | NM_198267, NM | Coding | TRUE |
| inhibitor of growth family, member 3 | NM_198267, NM | Coding | TRUE |
| inhibitor of growth family, member 3 | NM_198267, NM | Coding | TRUE |
| inhibitor of growth family, member 3 | NM_198267, NM | Coding | TRUE |
| nephroblastoma overexpressed | NM_002514, ENS | Coding | TRUE |
| nephroblastoma overexpressed | NM_002514, ENS | Coding | TRUE |
| nephroblastoma overexpressed | NM_002514, ENS | Coding | TRUE |
| nephroblastoma overexpressed | NM_002514, ENS | Coding | TRUE |
| chromosome 8 open reading frame 46 | NM_152765, ENS | Coding | TRUE |
| chromosome 8 open reading frame 46 | NM_152765, ENS | Coding | TRUE |
| globoside alpha-1,3-N-acetylgalactosaminyltransferase | NM_021996, ENS | Coding | TRUE |
| globoside alpha-1,3-N-acetylgalactosaminyltransferase | NM_021996, ENS | Coding | TRUE |
| globoside alpha-1,3-N-acetylgalactosaminyltransferase | NM_021996, ENS | Coding | TRUE |
| globoside alpha-1,3-N-acetylgalactosaminyltransferase | NM_021996, ENS | Coding | TRUE |
| globoside alpha-1,3-N-acetylgalactosaminyltransferase | NM_021996, ENS | Coding | TRUE |
| globoside alpha-1,3-N-acetylgalactosaminyltransferase | NM_021996, ENS | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| zinc finger, BED-type containing 1, dehydrogenase/rec | NM_001171136, I | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 24 | NM_181706, ENS | Coding | TRUE |
| DnaJ (Hsp40) homolog, subfamily C, member 24 | NM_181706, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| cysteine and glycine-rich protein 2 | NM_001321, ENS | Coding | TRUE |
| cysteine and glycine-rich protein 2 | NM_001321, ENS | Coding | TRUE |
| cysteine and glycine-rich protein 2 | NM_001321, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| sal-like 4 (Drosophila) | NM_020436, ENS | Coding | TRUE |
| RAN binding protein 1 | NM_002882, ENS | Coding | TRUE |
| RAN binding protein 1 | NM_002882, ENS | Coding | TRUE |
| RAN binding protein 1 | NM_002882, ENS | Coding | TRUE |
| RAN binding protein 1 | NM_002882, ENS | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| fibulin 1 | NM_001996, NM | Coding | TRUE |
| suppressor of Ty 7 (S. cerevisiae)-like | NM_014860, ENS | Coding | TRUE |
| suppressor of Ty 7 (S. cerevisiae)-like | NM_014860, ENS | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier, brain), m | NM_003951, NM | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier, brain), m | NM_003951, NM | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier, brain), m | NM_003951, NM | Coding | TRUE |
| extra spindle pole bodies homolog 1 (S. cerevisiae) | NM_012291, ENS | Coding | TRUE |
| extra spindle pole bodies homolog 1 (S. cerevisiae) | NM_012291, ENS | Coding | TRUE |
| extra spindle pole bodies homolog 1 (S. cerevisiae) | NM_012291, ENS | Coding | TRUE |
| extra spindle pole bodies homolog 1 (S. cerevisiae) | NM_012291, ENS | Coding | TRUE |
| sodium channel, non-voltage-gated 1 alpha subunit | NM_001159576, | Coding | TRUE |
| sodium channel, non-voltage-gated 1 alpha subunit | NM_001159576, | Coding | TRUE |
| sodium channel, non-voltage-gated 1 alpha subunit | NM_001159576, | Coding | TRUE |
| double C2-like domains, beta | NM_003585, ENS | Coding | TRUE |
| double C2-like domains, beta | NM_003585, ENS | Coding | TRUE |
| fibrous sheath interacting protein 2 | NM_173651, ENS | Coding | TRUE |
| fibrous sheath interacting protein 2 | NM_173651, ENS | Coding | TRUE |
| fibrous sheath interacting protein 2 | NM_173651, ENS | Coding | TRUE |
| fibrous sheath interacting protein 2 | NM_173651, ENS | Coding | TRUE |
| fibrous sheath interacting protein 2 | NM_173651, ENS | Coding | TRUE |
| THO complex 7 homolog (Drosophila) | NM_025075, ENS | Coding | TRUE |
| THO complex 7 homolog (Drosophila) | NM_025075, ENS | Coding | TRUE |
| thrombospondin 2 | NM_003247, ENS | Coding | TRUE |
| thrombospondin 2 | NM_003247, ENS | Coding | TRUE |
| thrombospondin 2 | NM_003247, ENS | Coding | TRUE |
| thrombospondin 2 | NM_003247, ENS | Coding | TRUE |
| chromosome 10 open reading frame 108 | NR_027151, NR | Coding | TRUE |
| chromosome 10 open reading frame 108 | NR_027151, NR | Coding | TRUE |
| HAUS augmin-like complex, subunit 2 | NM_001130447, | Coding | TRUE |
| HAUS augmin-like complex, subunit 2 | NM_001130447, | Coding | TRUE |
| HAUS augmin-like complex, subunit 2 | NM_001130447, | Coding | TRUE |
| transmembrane protein 231 | NM_001077416, | Coding | TRUE |
| transmembrane protein 231 | NM_001077416, | Coding | TRUE |
| transmembrane protein 231 | NM_001077416, | Coding | TRUE |
| transmembrane protein 231 | NM_001077416, | Coding | TRUE |
| zinc finger and BTB domain containing 7C | NM_001039360, | Coding | TRUE |
| zinc finger and BTB domain containing 7C | NM_001039360, | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| cadherin, EGF LAG seven-pass G-type receptor 1 (fla | NM_014246, ENS | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| acyl-CoA dehydrogenase, C-4 to C-12 straight chain | NM_000016, NM | Coding | TRUE |
| acyl-CoA dehydrogenase, C-4 to C-12 straight chain | NM_000016, NM | Coding | TRUE |
| acyl-CoA dehydrogenase, C-4 to C-12 straight chain | NM_000016, NM | Coding | TRUE |
| CDC42 small effector 1 | NM_001038707, | Coding | TRUE |
| CDC42 small effector 1 | NM_001038707, | Coding | TRUE |
| CDC42 small effector 1 | NM_001038707, | Coding | TRUE |
| pre-B-cell leukemia homeobox interacting protein 1 | NM_020524, ENS | Coding | TRUE |
| pre-B-cell leukemia homeobox interacting protein 1 | NM_020524, ENS | Coding | TRUE |
| protein kinase C, epsilon | NM_005400, ENS | Coding | TRUE |
| protein kinase C, epsilon | NM_005400, ENS | Coding | TRUE |
| protein kinase C, epsilon | NM_005400, ENS | Coding | TRUE |
| eukaryotic translation initiation factor 4E | NM_001130678, | Coding | TRUE |
| eukaryotic translation initiation factor 4E | NM_001130678, | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| solute carrier family 1 (glial high affinity glutamate tran | NM_004172, NM | Coding | TRUE |
| cysteine-rich transmembrane module containing 1 | NM_032412, ENS | Coding | TRUE |
| cysteine-rich transmembrane module containing 1 | NM_032412, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| CD109 molecule | NM_001159587, | Coding | TRUE |
| CD109 molecule | NM_001159587, | Coding | TRUE |
| blocked early in transport 1 homolog (S. cerevisiae) | NM_005868, BCC | Coding | TRUE |
| blocked early in transport 1 homolog (S. cerevisiae) | NM_005868, BCC | Coding | TRUE |
| blocked early in transport 1 homolog (S. cerevisiae) | NM_005868, BCC | Coding | TRUE |

| | | | |
|---|----------------------|--------|------|
| blocked early in transport 1 homolog (S. cerevisiae) | NM_005868, BCC | Coding | TRUE |
| blocked early in transport 1 homolog (S. cerevisiae) | NM_005868, BCC | Coding | TRUE |
| coiled-coil domain containing 146 | NM_020879, BCC | Coding | TRUE |
| coiled-coil domain containing 146 | NM_020879, BCC | Coding | TRUE |
| coiled-coil domain containing 146 | NM_020879, BCC | Coding | TRUE |
| coiled-coil domain containing 146 | NM_020879, BCC | Coding | TRUE |
| osteomodulin | NM_005014, ENS | Coding | TRUE |
| osteomodulin | NM_005014, ENS | Coding | TRUE |
| osteomodulin | NM_005014, ENS | Coding | TRUE |
| osteomodulin | NM_005014, ENS | Coding | TRUE |
| complement component 5 | NM_001735, ENS | Coding | TRUE |
| complement component 5 | NM_001735, ENS | Coding | TRUE |
| complement component 5 | NM_001735, ENS | Coding | TRUE |
| complement component 5 | NM_001735, ENS | Coding | TRUE |
| complement component 5 | NM_001735, ENS | Coding | TRUE |
| sarcosine dehydrogenase | NM_001134707, ENS | Coding | TRUE |
| sarcosine dehydrogenase | NM_001134707, ENS | Coding | TRUE |
| sarcosine dehydrogenase | NM_001134707, ENS | Coding | TRUE |
| sarcosine dehydrogenase | NM_001134707, ENS | Coding | TRUE |
| iron-sulfur cluster assembly 1 homolog (S. cerevisiae) | NM_030940, ENS | Coding | TRUE |
| iron-sulfur cluster assembly 1 homolog (S. cerevisiae) | NM_030940, ENS | Coding | TRUE |
| zinc finger protein 674 | NM_001039891, ENS | Coding | TRUE |
| zinc finger protein 674 | NM_001039891, ENS | Coding | TRUE |
| zinc finger protein 674 | NM_001039891, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member 1 | NR_001553, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member 1 | NR_001553, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member 1 | NR_001553, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member 1 | NR_001553, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member 1 | NR_001553, ENS | Coding | TRUE |
| family with sequence similarity 197, Y-linked, member 1 | NR_001553, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 1 | NM_001030272, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 1 | NM_001030272, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 1 | NM_001030272, ENS | Coding | TRUE |
| aryl hydrocarbon receptor nuclear translocator-like 1 | NM_001030272, ENS | Coding | TRUE |
| microsomal glutathione S-transferase 1 | NM_020300, NM_020300 | Coding | TRUE |
| microsomal glutathione S-transferase 1 | NM_020300, NM_020300 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| FERM domain containing 6 | NM_001042481, ENS | Coding | TRUE |
| FERM domain containing 6 | NM_001042481, ENS | Coding | TRUE |
| metallothionein 1G | NM_005950, ENS | Coding | TRUE |
| metallothionein 1G | NM_005950, ENS | Coding | TRUE |
| follistatin-like 3 (secreted glycoprotein) | NM_005860, ENS | Coding | TRUE |
| follistatin-like 3 (secreted glycoprotein) | NM_005860, ENS | Coding | TRUE |
| tumor necrosis factor (ligand) superfamily, member 9 | NM_003811, ENS | Coding | TRUE |
| tumor necrosis factor (ligand) superfamily, member 9 | NM_003811, ENS | Coding | TRUE |
| lipid phosphate phosphatase-related protein type 3 | NM_024888, ENS | Coding | TRUE |
| lipid phosphate phosphatase-related protein type 3 | NM_024888, ENS | Coding | TRUE |
| retinoblastoma-like 1 (p107) | NM_002895, NM_002895 | Coding | TRUE |
| retinoblastoma-like 1 (p107) | NM_002895, NM_002895 | Coding | TRUE |
| BCL2-like 11 (apoptosis facilitator) | NM_207002, NM_207002 | Coding | TRUE |
| BCL2-like 11 (apoptosis facilitator) | NM_207002, NM_207002 | Coding | TRUE |
| BCL2-like 11 (apoptosis facilitator) | NM_207002, NM_207002 | Coding | TRUE |
| integrin, beta 5 | NM_002213, ENS | Coding | TRUE |
| integrin, beta 5 | NM_002213, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |

| | | | |
|---|---|--------|------|
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| FtsJ methyltransferase domain containing 2 | NM_015050, ENS | Coding | TRUE |
| FtsJ methyltransferase domain containing 2 | NM_015050, ENS | Coding | TRUE |
| high mobility group box 3 | NM_005342, ENS | Coding | TRUE |
| high mobility group box 3 | NM_005342, ENS | Coding | TRUE |
| high mobility group box 3 | NM_005342, ENS | Coding | TRUE |
| high mobility group box 3 | NM_005342, ENS | Coding | TRUE |
| glutamic pyruvate transaminase (alanine aminotransferase) | NM_001142466, ENS | Coding | TRUE |
| glutamic pyruvate transaminase (alanine aminotransferase) | NM_001142466, ENS | Coding | TRUE |
| glutamic pyruvate transaminase (alanine aminotransferase) | NM_001142466, ENS | Coding | TRUE |
| cytochrome b5 reductase 3 | NM_007326, NM_007326, NM_007326, NM_007326 | Coding | TRUE |
| cytochrome b5 reductase 3 | NM_007326, NM_007326, NM_007326, NM_007326 | Coding | TRUE |
| cytochrome b5 reductase 3 | NM_007326, NM_007326, NM_007326, NM_007326 | Coding | TRUE |
| dermatopontin | NM_001937, ENS | Coding | TRUE |
| dermatopontin | NM_001937, ENS | Coding | TRUE |
| uncharacterized LOC100506023 | NR_037845 | Coding | TRUE |
| uncharacterized LOC100506023 | NR_037845 | Coding | TRUE |
| uncharacterized LOC100506023 | NR_037845 | Coding | TRUE |
| programmed cell death 6 interacting protein | NM_001162429, ENS | Coding | TRUE |
| programmed cell death 6 interacting protein | NM_001162429, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| sel-1 suppressor of lin-12-like 3 (C. elegans) | NM_015187, ENS | Coding | TRUE |
| transcription factor 7 (T-cell specific, HMG-box) | NM_201634, NM_201634, NM_201634, NM_201634 | Coding | TRUE |
| transcription factor 7 (T-cell specific, HMG-box) | NM_201634, NM_201634, NM_201634, NM_201634 | Coding | TRUE |
| transcription factor 7 (T-cell specific, HMG-box) | NM_201634, NM_201634, NM_201634, NM_201634 | Coding | TRUE |
| transcription factor 7 (T-cell specific, HMG-box) | NM_201634, NM_201634, NM_201634, NM_201634 | Coding | TRUE |
| uroplakin 3B | NM_030570, NM_030570, NM_030570, NM_030570 | Coding | TRUE |
| uroplakin 3B | NM_030570, NM_030570, NM_030570, NM_030570 | Coding | TRUE |
| nudix (nucleoside diphosphate linked moiety X)-type m | NM_024815, ENS | Coding | TRUE |
| nudix (nucleoside diphosphate linked moiety X)-type m | NM_024815, ENS | Coding | TRUE |
| ring finger protein 170, microRNA 4469 | NM_001160223, ENS | Coding | TRUE |
| ring finger protein 170, microRNA 4469 | NM_001160223, ENS | Coding | TRUE |
| MARVEL domain containing 1 | NM_031484, ENS | Coding | TRUE |
| MARVEL domain containing 1 | NM_031484, ENS | Coding | TRUE |
| uncharacterized LOC100505605 | ENST000004470 | Coding | TRUE |
| uncharacterized LOC100505605 | ENST000004470 | Coding | TRUE |
| uncharacterized LOC100505605 | ENST000004470 | Coding | TRUE |
| anthrax toxin receptor 1 | NM_018153, NM_018153, NM_018153, NM_018153, NM_018153 | Coding | TRUE |
| anthrax toxin receptor 1 | NM_018153, NM_018153, NM_018153, NM_018153, NM_018153 | Coding | TRUE |
| anthrax toxin receptor 1 | NM_018153, NM_018153, NM_018153, NM_018153, NM_018153 | Coding | TRUE |
| anthrax toxin receptor 1 | NM_018153, NM_018153, NM_018153, NM_018153, NM_018153 | Coding | TRUE |
| anthrax toxin receptor 1 | NM_018153, NM_018153, NM_018153, NM_018153, NM_018153 | Coding | TRUE |
| solute carrier family 19, member 3 | NM_025243, ENS | Coding | TRUE |
| solute carrier family 19, member 3 | NM_025243, ENS | Coding | TRUE |
| tripartite motif containing 61 | NM_001012414, ENS | Coding | TRUE |
| tripartite motif containing 61 | NM_001012414, ENS | Coding | TRUE |
| tripartite motif containing 61 | NM_001012414, ENS | Coding | TRUE |
| UL16 binding protein 1 | NM_025218, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| UL16 binding protein 1 | NM_025218, ENS | Coding | TRUE |
| myopalladin | NM_001256267, | Coding | TRUE |
| myopalladin | NM_001256267, | Coding | TRUE |
| myopalladin | NM_001256267, | Coding | TRUE |
| myopalladin | NM_001256267, | Coding | TRUE |
| myopalladin | NM_001256267, | Coding | TRUE |
| golgin A2 pseudogene 5 | NR_024261, NR_ | Coding | TRUE |
| golgin A2 pseudogene 5 | NR_024261, NR_ | Coding | TRUE |
| golgin A2 pseudogene 5 | NR_024261, NR_ | Coding | TRUE |
| golgin A2 pseudogene 5 | NR_024261, NR_ | Coding | TRUE |
| G protein-coupled receptor 89C, G protein-coupled rec | NM_001097616, | Coding | TRUE |
| G protein-coupled receptor 89C, G protein-coupled rec | NM_001097616, | Coding | TRUE |
| RAB4A, member RAS oncogene family, S-phase resp | NM_004578, NM_ | Coding | TRUE |
| RAB4A, member RAS oncogene family, S-phase resp | NM_004578, NM_ | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| neurexophilin and PC-esterase domain family, membe | NM_001134456, | Coding | TRUE |
| neurexophilin and PC-esterase domain family, membe | NM_001134456, | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| uncharacterized LOC100505875 | NR_038342, ENS | Coding | TRUE |
| MDC1 antisense RNA 1 (non-protein coding) | ENST000004421 | Coding | TRUE |
| MDC1 antisense RNA 1 (non-protein coding) | ENST000004421 | Coding | TRUE |
| kelch-like 9 (Drosophila) | NM_018847, ENS | Coding | TRUE |
| kelch-like 9 (Drosophila) | NM_018847, ENS | Coding | TRUE |
| kelch-like 9 (Drosophila) | NM_018847, ENS | Coding | TRUE |
| chromosome 14 open reading frame 37 | NM_001001872, | Coding | TRUE |
| chromosome 14 open reading frame 37 | NM_001001872, | Coding | TRUE |
| uncharacterized LOC283663 | NR_024433, ENS | Coding | TRUE |
| uncharacterized LOC283663 | NR_024433, ENS | Coding | TRUE |
| polyamine modulated factor 1 binding protein 1 | NM_001160213, | Coding | TRUE |
| polyamine modulated factor 1 binding protein 1 | NM_001160213, | Coding | TRUE |
| polyamine modulated factor 1 binding protein 1 | NM_001160213, | Coding | TRUE |
| signal-induced proliferation-associated 1 like 3 | NM_015073, ENS | Coding | TRUE |
| signal-induced proliferation-associated 1 like 3 | NM_015073, ENS | Coding | TRUE |
| signal-induced proliferation-associated 1 like 3 | NM_015073, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| microRNA 1257, TAF4 RNA polymerase II, TATA box b | NR_031658, NM_ | Coding | TRUE |
| microRNA 1257, TAF4 RNA polymerase II, TATA box b | NR_031658, NM_ | Coding | TRUE |
| microRNA 1257, TAF4 RNA polymerase II, TATA box b | NR_031658, NM_ | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| visinin-like 1 | NM_003385, ENS | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997, ENS | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997, ENS | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997, ENS | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, ENS | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, ENS | Coding | TRUE |
| zinc and ring finger 2 | NM_147128, ENS | Coding | TRUE |
| zinc and ring finger 2 | NM_147128, ENS | Coding | TRUE |
| zinc and ring finger 2 | NM_147128, ENS | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 4 | NM_001128930, I | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 4 | NM_001128930, I | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 4 | NM_001128930, I | Coding | TRUE |
| ectonucleoside triphosphate diphosphohydrolase 4 | NM_001128930, I | Coding | TRUE |
| ArfGAP with dual PH domains 2 | NM_018404, ENS | Coding | TRUE |
| ArfGAP with dual PH domains 2 | NM_018404, ENS | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| HLA complex group 25 (non-protein coding) | NR_044997 | Coding | TRUE |
| basic leucine zipper transcription factor, ATF-like 3 | NM_018664, ENS | Coding | TRUE |
| basic leucine zipper transcription factor, ATF-like 3 | NM_018664, ENS | Coding | TRUE |
| basic leucine zipper transcription factor, ATF-like 3 | NM_018664, ENS | Coding | TRUE |
| basic leucine zipper transcription factor, ATF-like 3 | NM_018664, ENS | Coding | TRUE |
| huntingtin interacting protein 1 | NM_001243198, I | Coding | TRUE |
| huntingtin interacting protein 1 | NM_001243198, I | Coding | TRUE |
| potassium channel tetramerisation domain containing | NM_001167961, I | Coding | TRUE |
| potassium channel tetramerisation domain containing | NM_001167961, I | Coding | TRUE |
| prostaglandin E receptor 4 (subtype EP4) pseudogene | NR_024496 | Coding | TRUE |
| prostaglandin E receptor 4 (subtype EP4) pseudogene | NR_024496 | Coding | TRUE |
| TIA1 cytotoxic granule-associated RNA binding protein | NM_001033925, I | Coding | TRUE |
| TIA1 cytotoxic granule-associated RNA binding protein | NM_001033925, I | Coding | TRUE |
| Zwilch, kinetochore associated, homolog (Drosophila) | NM_017975, NR_ | Coding | TRUE |
| Zwilch, kinetochore associated, homolog (Drosophila) | NM_017975, NR_ | Coding | TRUE |
| C1q and tumor necrosis factor related protein 8 | NM_207419, ENS | Coding | TRUE |
| C1q and tumor necrosis factor related protein 8 | NM_207419, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 38kDa, V0 subunit | NM_004691, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 38kDa, V0 subunit | NM_004691, ENS | Coding | TRUE |
| ATPase, H+ transporting, lysosomal 38kDa, V0 subunit | NM_004691, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| RAD51 homolog C (<i>S. cerevisiae</i>) | NM_002876, NM | Coding | TRUE |
| RAD51 homolog C (<i>S. cerevisiae</i>) | NM_002876, NM | Coding | TRUE |
| RAD51 homolog C (<i>S. cerevisiae</i>) | NM_002876, NM | Coding | TRUE |
| synapse differentiation inducing 1 | NM_024893, ENS | Coding | TRUE |
| synapse differentiation inducing 1 | NM_024893, ENS | Coding | TRUE |
| synapse differentiation inducing 1 | NM_024893, ENS | Coding | TRUE |
| ANKRD44 intronic transcript 1 (non-protein coding) | ENST000004281 | Coding | TRUE |
| ANKRD44 intronic transcript 1 (non-protein coding) | ENST000004281 | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| Na ⁺ /K ⁺ transporting ATPase interacting 2 | NM_001040214, | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| neurexin 2 | NM_138734, NM | Coding | TRUE |
| small nucleolar RNA, H/ACA box 39, small nucleolar R | NR_002972, NR | Coding | TRUE |
| small nucleolar RNA, H/ACA box 39, small nucleolar R | NR_002972, NR | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| v-abl Abelson murine leukemia viral oncogene homolo | NM_001136001, | Coding | TRUE |
| v-abl Abelson murine leukemia viral oncogene homolo | NM_001136001, | Coding | TRUE |
| spectrin, beta, non-erythrocytic 1 | NM_178313, NM | Coding | TRUE |
| spectrin, beta, non-erythrocytic 1 | NM_178313, NM | Coding | TRUE |
| spectrin, beta, non-erythrocytic 1 | NM_178313, NM | Coding | TRUE |
| R-spondin 3 | NM_032784, ENS | Coding | TRUE |
| R-spondin 3 | NM_032784, ENS | Coding | TRUE |
| R-spondin 3 | NM_032784, ENS | Coding | TRUE |
| R-spondin 3 | NM_032784, ENS | Coding | TRUE |
| R-spondin 3 | NM_032784, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 10 | NM_004398, ENS | Coding | TRUE |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 10 | NM_004398, ENS | Coding | TRUE |
| interferon, alpha-inducible protein 27-like 1 | NM_145249, NM | Coding | TRUE |
| interferon, alpha-inducible protein 27-like 1 | NM_145249, NM | Coding | TRUE |
| interferon, alpha-inducible protein 27-like 1 | NM_145249, NM | Coding | TRUE |
| translocase of inner mitochondrial membrane 9 homok | NM_012460, ENS | Coding | TRUE |
| translocase of inner mitochondrial membrane 9 homok | NM_012460, ENS | Coding | TRUE |
| translocase of inner mitochondrial membrane 9 homok | NM_012460, ENS | Coding | TRUE |
| translocase of inner mitochondrial membrane 9 homok | NM_012460, ENS | Coding | TRUE |
| golgin A8 family, member I, pseudogene | NR_024074, ENS | Coding | TRUE |
| golgin A8 family, member I, pseudogene | NR_024074, ENS | Coding | TRUE |
| golgin A8 family, member I, pseudogene | NR_024074, ENS | Coding | TRUE |
| cadherin 11, type 2, OB-cadherin (osteoblast) | NM_001797, ENS | Coding | TRUE |
| cadherin 11, type 2, OB-cadherin (osteoblast) | NM_001797, ENS | Coding | TRUE |
| cadherin 11, type 2, OB-cadherin (osteoblast) | NM_001797, ENS | Coding | TRUE |
| cadherin 11, type 2, OB-cadherin (osteoblast) | NM_001797, ENS | Coding | TRUE |
| tripartite motif containing 47 | NM_033452, ENS | Coding | TRUE |
| tripartite motif containing 47 | NM_033452, ENS | Coding | TRUE |
| tripartite motif containing 47 | NM_033452, ENS | Coding | TRUE |

| | | | |
|---|-----------------------|--------|------|
| coiled-coil domain containing 107 | NM_001195200, | Coding | TRUE |
| coiled-coil domain containing 107 | NM_001195200, | Coding | TRUE |
| microfibrillar-associated protein 4 | NM_001198695, | Coding | TRUE |
| microfibrillar-associated protein 4 | NM_001198695, | Coding | TRUE |
| microfibrillar-associated protein 4 | NM_001198695, | Coding | TRUE |
| myosin, heavy chain 7B, cardiac muscle, beta | NM_020884, ENS | Coding | TRUE |
| myosin, heavy chain 7B, cardiac muscle, beta | NM_020884, ENS | Coding | TRUE |
| tRNA nucleotidyl transferase, CCA-adding, 1 | NM_182916, ENS | Coding | TRUE |
| tRNA nucleotidyl transferase, CCA-adding, 1 | NM_182916, ENS | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 2 | NM_001199302, | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 2 | NM_001199302, | Coding | TRUE |
| CCR4-NOT transcription complex, subunit 2 | NM_001199302, | Coding | TRUE |
| family with sequence similarity 177, member A1 | NM_001079519, | Coding | TRUE |
| family with sequence similarity 177, member A1 | NM_001079519, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| tumor suppressor candidate 5 | NM_172367, ENS | Coding | TRUE |
| tumor suppressor candidate 5 | NM_172367, ENS | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 7 (gene/pseudogene) | NM_001206650, | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 7 (gene/pseudogene) | NM_001206650, | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 7 (gene/pseudogene) | NM_001206650, | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 7 (gene/pseudogene) | NM_001206650, | Coding | TRUE |
| small nucleolar RNA, C/D box 56, small nucleolar RNA | ENST000004135 | Coding | TRUE |
| small nucleolar RNA, C/D box 56, small nucleolar RNA | ENST000004135 | Coding | TRUE |
| ankyrin repeat domain 5 | NM_022096, NM_022096, | Coding | TRUE |
| ankyrin repeat domain 5 | NM_022096, NM_022096, | Coding | TRUE |
| ankyrin repeat domain 5 | NM_022096, NM_022096, | Coding | TRUE |
| myxovirus (influenza virus) resistance 1, interferon-inducible | NM_001144925, | Coding | TRUE |
| myxovirus (influenza virus) resistance 1, interferon-inducible | NM_001144925, | Coding | TRUE |
| myxovirus (influenza virus) resistance 1, interferon-inducible | NM_001144925, | Coding | TRUE |
| myxovirus (influenza virus) resistance 1, interferon-inducible | NM_001144925, | Coding | TRUE |
| myxovirus (influenza virus) resistance 1, interferon-inducible | NM_001144925, | Coding | TRUE |
| bromodomain containing 1 | NM_014577, ENS | Coding | TRUE |
| bromodomain containing 1 | NM_014577, ENS | Coding | TRUE |
| bromodomain containing 1 | NM_014577, ENS | Coding | TRUE |
| bromodomain containing 1 | NM_014577, ENS | Coding | TRUE |
| solute carrier family 40 (iron-regulated transporter), member 1 | NM_014585, ENS | Coding | TRUE |
| solute carrier family 40 (iron-regulated transporter), member 1 | NM_014585, ENS | Coding | TRUE |
| solute carrier family 40 (iron-regulated transporter), member 1 | NM_014585, ENS | Coding | TRUE |
| kyphoscoliosis peptidase | NM_178554, ENS | Coding | TRUE |
| kyphoscoliosis peptidase | NM_178554, ENS | Coding | TRUE |
| centrosomal protein 192kDa pseudogene | NR_036494, ENS | Coding | TRUE |
| centrosomal protein 192kDa pseudogene | NR_036494, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| NOP2/Sun domain family, member 7 | NM_024677, ENS | Coding | TRUE |
| NOP2/Sun domain family, member 7 | NM_024677, ENS | Coding | TRUE |
| serine/threonine kinase 38 like | NM_015000, ENS | Coding | TRUE |
| serine/threonine kinase 38 like | NM_015000, ENS | Coding | TRUE |
| aldehyde dehydrogenase 1 family, member A2 | NM_001206897, | Coding | TRUE |
| aldehyde dehydrogenase 1 family, member A2 | NM_001206897, | Coding | TRUE |
| alanyl (membrane) aminopeptidase | NM_001150, ENS | Coding | TRUE |
| alanyl (membrane) aminopeptidase | NM_001150, ENS | Coding | TRUE |
| alanyl (membrane) aminopeptidase | NM_001150, ENS | Coding | TRUE |
| alanyl (membrane) aminopeptidase | NM_001150, ENS | Coding | TRUE |
| retinoblastoma-like 2 (p130) | NM_005611, ENS | Coding | TRUE |
| retinoblastoma-like 2 (p130) | NM_005611, ENS | Coding | TRUE |
| TBC1 domain family, member 16 | NM_019020, ENS | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| TBC1 domain family, member 16 | NM_019020, ENS | Coding | TRUE |
| CHIA-like pseudogene | NR_003928, ENS | Coding | TRUE |
| CHIA-like pseudogene | NR_003928, ENS | Coding | TRUE |
| vacuolar protein sorting 45 homolog (S. cerevisiae) | NM_007259, BCC | Coding | TRUE |
| vacuolar protein sorting 45 homolog (S. cerevisiae) | NM_007259, BCC | Coding | TRUE |
| cathepsin K | NM_000396, ENS | Coding | TRUE |
| cathepsin K | NM_000396, ENS | Coding | TRUE |
| cathepsin K | NM_000396, ENS | Coding | TRUE |
| cathepsin K | NM_000396, ENS | Coding | TRUE |
| cathepsin K | NM_000396, ENS | Coding | TRUE |
| cathepsin K | NM_000396, ENS | Coding | TRUE |
| pim-1 oncogene | NM_001243186, | Coding | TRUE |
| pim-1 oncogene | NM_001243186, | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| matrix metalloproteinase 19 | NM_002429, BCC | Coding | TRUE |
| NKF3 kinase family member | NM_024776, ENS | Coding | TRUE |
| NKF3 kinase family member | NM_024776, ENS | Coding | TRUE |
| NKF3 kinase family member | NM_024776, ENS | Coding | TRUE |
| metallothionein 1F | NM_005949, ENS | Coding | TRUE |
| metallothionein 1F | NM_005949, ENS | Coding | TRUE |
| metallothionein 1F | NM_005949, ENS | Coding | TRUE |
| metallothionein 1F | NM_005949, ENS | Coding | TRUE |
| metallothionein 1F | NM_005949, ENS | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| olfactory receptor, family 11, subfamily A, member 1 | NM_013937, BC1 | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, G/ | NM_003042, ENS | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, G/ | NM_003042, ENS | Coding | TRUE |
| solute carrier family 6 (neurotransmitter transporter, G/ | NM_003042, ENS | Coding | TRUE |
| uncharacterized LOC100507639 | ENST000005066 | Coding | TRUE |
| uncharacterized LOC100507639 | ENST000005066 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| IQ motif containing G | NM_001134435, I | Coding | TRUE |
| IQ motif containing G | NM_001134435, I | Coding | TRUE |
| IQ motif containing G | NM_001134435, I | Coding | TRUE |
| actin related protein 2/3 complex, subunit 4, 20kDa | NM_001024959, | Coding | TRUE |
| actin related protein 2/3 complex, subunit 4, 20kDa | NM_001024959, | Coding | TRUE |
| phosphopantothienoylcysteine synthetase | NM_001077447, | Coding | TRUE |
| phosphopantothienoylcysteine synthetase | NM_001077447, | Coding | TRUE |
| F-box protein 41 | NM_001080410, | Coding | TRUE |
| F-box protein 41 | NM_001080410, | Coding | TRUE |
| F-box protein 41 | NM_001080410, | Coding | TRUE |
| F-box protein 41 | NM_001080410, | Coding | TRUE |
| F-box protein 41 | NM_001080410, | Coding | TRUE |
| WW and C2 domain containing 1 | NM_001161661, I | Coding | TRUE |
| WW and C2 domain containing 1 | NM_001161661, I | Coding | TRUE |
| N-acetyltransferase 1 (arylamine N-acetyltransferase) | NM_000662, NM | Coding | TRUE |
| N-acetyltransferase 1 (arylamine N-acetyltransferase) | NM_000662, NM | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| N-acetyltransferase 1 (arylamine N-acetyltransferase) | NM_000662, NM | Coding | TRUE |
| DMRT-like family A1 | NM_022160, ENS | Coding | TRUE |
| DMRT-like family A1 | NM_022160, ENS | Coding | TRUE |
| APITD1-CORT readthrough, cortistatin, apoptosis-indu | NM_001243768, | Coding | TRUE |
| APITD1-CORT readthrough, cortistatin, apoptosis-indu | NM_001243768, | Coding | TRUE |
| aldehyde dehydrogenase 1 family, member L1 | NM_012190, ENS | Coding | TRUE |
| aldehyde dehydrogenase 1 family, member L1 | NM_012190, ENS | Coding | TRUE |
| chromosome 11 open reading frame 58 | NM_014267, ENS | Coding | TRUE |
| chromosome 11 open reading frame 58 | NM_014267, ENS | Coding | TRUE |
| prostaglandin E receptor 2 (subtype EP2), 53kDa | NM_000956, ENS | Coding | TRUE |
| prostaglandin E receptor 2 (subtype EP2), 53kDa | NM_000956, ENS | Coding | TRUE |
| chromosome 3 open reading frame 18 | NM_001171740, | Coding | TRUE |
| chromosome 3 open reading frame 18 | NM_001171740, | Coding | TRUE |
| chromosome 3 open reading frame 18 | NM_001171740, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| asparagine synthetase (glutamine-hydrolyzing) | NM_001178075, | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 2 | NM_031246, BCC | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 2 | NM_031246, BCC | Coding | TRUE |
| pregnancy specific beta-1-glycoprotein 2 | NM_031246, BCC | Coding | TRUE |
| microRNA 1182, family with sequence similarity 89, me | NR_031593, NM | Coding | TRUE |
| microRNA 1182, family with sequence similarity 89, me | NR_031593, NM | Coding | TRUE |
| tetraspanin 2 | NM_005725, ENS | Coding | TRUE |
| tetraspanin 2 | NM_005725, ENS | Coding | TRUE |
| tetraspanin 2 | NM_005725, ENS | Coding | TRUE |
| KIAA0040 | NM_001162893, | Coding | TRUE |
| KIAA0040 | NM_001162893, | Coding | TRUE |
| KIAA0040 | NM_001162893, | Coding | TRUE |
| KIAA0040 | NM_001162893, | Coding | TRUE |
| KIAA0040 | NM_001162893, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| brain expressed, X-linked 4 | NM_001080425, | Coding | TRUE |
| formin-like 1 | NM_005892, ENS | Coding | TRUE |
| formin-like 1 | NM_005892, ENS | Coding | TRUE |
| PX domain containing serine/threonine kinase | NM_017771, ENS | Coding | TRUE |
| PX domain containing serine/threonine kinase | NM_017771, ENS | Coding | TRUE |
| N-acetyltransferase 10 (GCN5-related) | NM_001144030, | Coding | TRUE |
| N-acetyltransferase 10 (GCN5-related) | NM_001144030, | Coding | TRUE |
| ubiquitin specific peptidase 5 (isopeptidase T) | NM_001098536, | Coding | TRUE |
| ubiquitin specific peptidase 5 (isopeptidase T) | NM_001098536, | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| zinc finger and SCAN domain containing 2 | NM_001007072, | Coding | TRUE |
| zinc finger and SCAN domain containing 2 | NM_001007072, | Coding | TRUE |
| zinc finger and SCAN domain containing 2 | NM_001007072, | Coding | TRUE |
| catechol-O-methyltransferase, microRNA 4761 | NM_007310, NM | Coding | TRUE |
| catechol-O-methyltransferase, microRNA 4761 | NM_007310, NM | Coding | TRUE |
| mitochondrial ribosomal protein S5 | NM_031902, BCC | Coding | TRUE |
| mitochondrial ribosomal protein S5 | NM_031902, BCC | Coding | TRUE |

| | | | |
|---|-----------------|--------|------|
| mitochondrial ribosomal protein S5 | NM_031902, BC0 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| KIAA0825 | NM_001145678, I | Coding | TRUE |
| KIAA0825 | NM_001145678, I | Coding | TRUE |
| KIAA0825 | NM_001145678, I | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435, ENS | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435, ENS | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435, ENS | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier; Graves c | NM_152707, ENS | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier; Graves c | NM_152707, ENS | Coding | TRUE |
| solute carrier family 25 (mitochondrial carrier; Graves c | NM_152707, ENS | Coding | TRUE |
| choline kinase beta | NM_005198, ENS | Coding | TRUE |
| choline kinase beta | NM_005198, ENS | Coding | TRUE |
| mitofusin 1 | NM_033540, ENS | Coding | TRUE |
| mitofusin 1 | NM_033540, ENS | Coding | TRUE |
| paired box 6 | NM_000280, NM | Coding | TRUE |
| paired box 6 | NM_000280, NM | Coding | TRUE |
| fukutin | NM_006731, NM | Coding | TRUE |
| fukutin | NM_006731, NM | Coding | TRUE |
| fukutin | NM_006731, NM | Coding | TRUE |
| sorting nexin family member 27 | NM_030918, ENS | Coding | TRUE |
| sorting nexin family member 27 | NM_030918, ENS | Coding | TRUE |
| sorting nexin family member 27 | NM_030918, ENS | Coding | TRUE |
| FSHD region gene 1 pseudogene | NR_027436, BC0 | Coding | TRUE |
| FSHD region gene 1 pseudogene | NR_027436, BC0 | Coding | TRUE |
| FERM domain containing 1 | NM_001122841, I | Coding | TRUE |
| FERM domain containing 1 | NM_001122841, I | Coding | TRUE |
| FERM domain containing 1 | NM_001122841, I | Coding | TRUE |
| nardilysin (N-arginine dibasic convertase), microRNA 7 | NM_001101662, I | Coding | TRUE |
| nardilysin (N-arginine dibasic convertase), microRNA 7 | NM_001101662, I | Coding | TRUE |
| nardilysin (N-arginine dibasic convertase), microRNA 7 | NM_001101662, I | Coding | TRUE |
| SAM domain and HD domain 1 | NM_015474, ENS | Coding | TRUE |
| SAM domain and HD domain 1 | NM_015474, ENS | Coding | TRUE |
| leptin | NM_000230, ENS | Coding | TRUE |
| leptin | NM_000230, ENS | Coding | TRUE |
| THAP domain containing 5 | NM_001130475, I | Coding | TRUE |
| THAP domain containing 5 | NM_001130475, I | Coding | TRUE |
| proteoglycan 4 | NM_001127708, I | Coding | TRUE |
| proteoglycan 4 | NM_001127708, I | Coding | TRUE |
| uncharacterized LOC100505702 | NR_038303, NR | Coding | TRUE |
| uncharacterized LOC100505702 | NR_038303, NR | Coding | TRUE |
| GLI pathogenesis-related 2, uncharacterized LOC1006 | NM_022343, ENS | Coding | TRUE |
| GLI pathogenesis-related 2, uncharacterized LOC1006 | NM_022343, ENS | Coding | TRUE |
| GLI pathogenesis-related 2, uncharacterized LOC1006 | NM_022343, ENS | Coding | TRUE |
| GLI pathogenesis-related 2, uncharacterized LOC1006 | NM_022343, ENS | Coding | TRUE |
| F-box protein 27 | NM_178820, ENS | Coding | TRUE |
| F-box protein 27 | NM_178820, ENS | Coding | TRUE |
| androgen-induced 1 | NM_016108, ENS | Coding | TRUE |
| androgen-induced 1 | NM_016108, ENS | Coding | TRUE |
| androgen-induced 1 | NM_016108, ENS | Coding | TRUE |
| androgen-induced 1 | NM_016108, ENS | Coding | TRUE |
| androgen-induced 1 | NM_016108, ENS | Coding | TRUE |
| androgen-induced 1 | NM_016108, ENS | Coding | TRUE |
| WAS protein family homolog 2 pseudogene | NR_024077 | Coding | TRUE |
| WAS protein family homolog 2 pseudogene | NR_024077 | Coding | TRUE |
| DENN/MADD domain containing 2A | NM_015689, ENS | Coding | TRUE |
| DENN/MADD domain containing 2A | NM_015689, ENS | Coding | TRUE |

| | | | |
|--|----------------|--------|------|
| DENN/MADD domain containing 2A | NM_015689, ENS | Coding | TRUE |
| DENN/MADD domain containing 2A | NM_015689, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| microsomal glutathione S-transferase 3, uncharacteriz | NM_004528, ENS | Coding | TRUE |
| microsomal glutathione S-transferase 3, uncharacteriz | NM_004528, ENS | Coding | TRUE |
| transforming growth factor, beta receptor II (70/80kDa) | NM_001024847, | Coding | TRUE |
| transforming growth factor, beta receptor II (70/80kDa) | NM_001024847, | Coding | TRUE |
| transforming growth factor, beta receptor II (70/80kDa) | NM_001024847, | Coding | TRUE |
| NIPA-like domain containing 2 | NM_024759, ENS | Coding | TRUE |
| NIPA-like domain containing 2 | NM_024759, ENS | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| ST3 beta-galactoside alpha-2,3-sialyltransferase 5 | NM_001042437, | Coding | TRUE |
| succinate dehydrogenase complex, subunit A, flavoproc | NR_003263, ENS | Coding | TRUE |
| succinate dehydrogenase complex, subunit A, flavoproc | NR_003263, ENS | Coding | TRUE |
| nuclear pore complex-interacting protein-like 3-like, nu | ENST000003573 | Coding | TRUE |
| nuclear pore complex-interacting protein-like 3-like, nu | ENST000003573 | Coding | TRUE |
| enolase 3 (beta, muscle) | NM_001193503, | Coding | TRUE |
| enolase 3 (beta, muscle) | NM_001193503, | Coding | TRUE |
| enolase 3 (beta, muscle) | NM_001193503, | Coding | TRUE |
| alpha 1,4-galactosyltransferase | NM_017436, BCC | Coding | TRUE |
| alpha 1,4-galactosyltransferase | NM_017436, BCC | Coding | TRUE |
| alpha 1,4-galactosyltransferase | NM_017436, BCC | Coding | TRUE |
| platelet factor 4 variant 1 | NM_002620, ENS | Coding | TRUE |
| platelet factor 4 variant 1 | NM_002620, ENS | Coding | TRUE |
| COMM domain containing 8 | NM_017845, BCC | Coding | TRUE |
| COMM domain containing 8 | NM_017845, BCC | Coding | TRUE |
| tripartite motif containing 6 | NM_001003818, | Coding | TRUE |
| tripartite motif containing 6 | NM_001003818, | Coding | TRUE |
| spire homolog 2 (Drosophila) | NM_032451, ENS | Coding | TRUE |
| spire homolog 2 (Drosophila) | NM_032451, ENS | Coding | TRUE |
| spire homolog 2 (Drosophila) | NM_032451, ENS | Coding | TRUE |
| gamma-glutamyltransferase light chain 3 | ENST000004049 | Coding | TRUE |

| | | | |
|--|-----------------|--------|------|
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| zinc finger protein 160 | NM_033288, NM | Coding | TRUE |
| zinc finger protein 160 | NM_033288, NM | Coding | TRUE |
| MYC associated factor X | NM_145114, NM | Coding | TRUE |
| MYC associated factor X | NM_145114, NM | Coding | TRUE |
| MYC associated factor X | NM_145114, NM | Coding | TRUE |
| MYC associated factor X | NM_145114, NM | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| extracellular matrix protein 2, female organ and adipoc | NM_001197295, I | Coding | TRUE |
| extracellular matrix protein 2, female organ and adipoc | NM_001197295, I | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| major histocompatibility complex, class II, DP beta 2 (p | NR_001435 | Coding | TRUE |
| zinc finger, BED-type containing 6, zinc finger CCCH-t | NM_001174108, I | Coding | TRUE |
| zinc finger, BED-type containing 6, zinc finger CCCH-t | NM_001174108, I | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| neuron-derived neurotrophic factor | NM_024574, ENS | Coding | TRUE |
| LEPREL1 antisense RNA 1 (non-protein coding) | ENST000004122 | Coding | TRUE |
| LEPREL1 antisense RNA 1 (non-protein coding) | ENST000004122 | Coding | TRUE |
| LEPREL1 antisense RNA 1 (non-protein coding) | ENST000004122 | Coding | TRUE |
| chromosome 5 open reading frame 38 | NM_178569, BC1 | Coding | TRUE |
| chromosome 5 open reading frame 38 | NM_178569, BC1 | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| 6-pyruvoyltetrahydropterin synthase | NM_000317, ENS | Coding | TRUE |
| 6-pyruvoyltetrahydropterin synthase | NM_000317, ENS | Coding | TRUE |
| G0/G1switch 2 | NM_015714, ENS | Coding | TRUE |
| G0/G1switch 2 | NM_015714, ENS | Coding | TRUE |
| TRIO and F-actin binding protein | NM_001039141, I | Coding | TRUE |
| TRIO and F-actin binding protein | NM_001039141, I | Coding | TRUE |
| TRIO and F-actin binding protein | NM_001039141, I | Coding | TRUE |
| TRIO and F-actin binding protein | NM_001039141, I | Coding | TRUE |
| TRIO and F-actin binding protein | NM_001039141, I | Coding | TRUE |
| uncharacterized LOC100506119 | ENST000004231 | Coding | TRUE |
| uncharacterized LOC100506119 | ENST000004231 | Coding | TRUE |
| uncharacterized LOC100506119 | ENST000004231 | Coding | TRUE |
| uncharacterized LOC100506119 | ENST000004231 | Coding | TRUE |
| uncharacterized LOC100506119 | ENST000004231 | Coding | TRUE |
| lymphatic vessel endothelial hyaluronan receptor 1 | NM_006691, ENS | Coding | TRUE |
| lymphatic vessel endothelial hyaluronan receptor 1 | NM_006691, ENS | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| | | Coding | TRUE |
| cytokine receptor-like factor 1 | NM_004750, ENS | Coding | TRUE |
| cytokine receptor-like factor 1 | NM_004750, ENS | Coding | TRUE |
| cytokine receptor-like factor 1 | NM_004750, ENS | Coding | TRUE |
| cytokine receptor-like factor 1 | NM_004750, ENS | Coding | TRUE |

| | | | |
|---|----------------|--------|------|
| prickle homolog 1 (Drosophila) | NM_001144882, | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| coiled-coil domain containing 3 | NM_031455, ENS | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| sortilin 1 | NM_001205228, | Coding | TRUE |
| apolipoprotein D | NM_001647, ENS | Coding | TRUE |
| apolipoprotein D | NM_001647, ENS | Coding | TRUE |
| apolipoprotein D | NM_001647, ENS | Coding | TRUE |
| apolipoprotein D | NM_001647, ENS | Coding | TRUE |
| apolipoprotein D | NM_001647, ENS | Coding | TRUE |
| HOXC cluster antisense RNA 1 (non-protein coding) | ENST000005057 | Coding | TRUE |
| HOXC cluster antisense RNA 1 (non-protein coding) | ENST000005057 | Coding | TRUE |
| olfactomedin-like 3 | NM_020190, ENS | Coding | TRUE |
| olfactomedin-like 3 | NM_020190, ENS | Coding | TRUE |
| TIMP metalloproteinase inhibitor 4 | NM_003256, ENS | Coding | TRUE |
| TIMP metalloproteinase inhibitor 4 | NM_003256, ENS | Coding | TRUE |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.1 | 8.3 | -2.3 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.05 | 2.9 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.67 | 1.64 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.9 | -2.6 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.4 | -1.49 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.4 | -1.49 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.4 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.61 | 7.27 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.61 | 7.27 | -1.58 |
| TRUE | 1/1 | 1/1 | 8.86 | 11.24 | -5.22 |
| TRUE | 1/1 | 1/1 | 8.86 | 11.24 | -5.22 |
| TRUE | 1/1 | 1/1 | 8.86 | 11.24 | -5.22 |
| TRUE | 1/1 | 1/1 | 8.86 | 11.24 | -5.22 |
| TRUE | 1/1 | 1/1 | 8.86 | 11.24 | -5.22 |
| TRUE | 1/1 | 1/1 | 5.13 | 7.62 | -5.6 |
| TRUE | 1/1 | 1/1 | 5.13 | 7.62 | -5.6 |
| TRUE | 1/1 | 1/1 | 5.13 | 7.62 | -5.6 |
| TRUE | 1/1 | 1/1 | 5.13 | 7.62 | -5.6 |
| TRUE | 1/1 | 1/1 | 5.13 | 7.62 | -5.6 |
| TRUE | 1/1 | 1/1 | 6.61 | 5.08 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.61 | 5.08 | 2.9 |
| TRUE | 1/1 | 1/1 | 6.61 | 5.08 | 2.9 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.38 | 5.8 | 5.99 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.8 | 5.99 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 10.32 | -7.23 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.02 | 11 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.95 | -2.43 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.95 | -2.43 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.95 | -2.43 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.22 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 4.69 | 7.81 | -8.67 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.38 | 2.02 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.38 | 2.02 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.38 | 2.02 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.38 | 2.02 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.38 | 2.02 |
| TRUE | 1/1 | 1/1 | 4.58 | 4.9 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.58 | 4.9 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.58 | 4.9 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.58 | 4.9 | -1.25 |
| TRUE | 1/1 | 1/1 | 3.28 | 4.45 | -2.25 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.65 | 6.27 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.75 | 7.11 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.75 | 7.11 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.75 | 7.11 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.75 | 7.11 | -1.28 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.82 | 4.72 | -1.86 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.56 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.33 | -1.84 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.33 | -1.94 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.33 | -1.94 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.48 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.09 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.09 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.09 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.09 | -1.11 |
| TRUE | 1/1 | 1/1 | 10.21 | 10.4 | -1.14 |
| TRUE | 1/1 | 1/1 | 10.21 | 10.4 | -1.14 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 8.45 | 10.07 | -3.06 |
| TRUE | 1/1 | 1/1 | 5.32 | 6.65 | -2.5 |
| TRUE | 1/1 | 1/1 | 5.32 | 6.65 | -2.5 |
| TRUE | 1/1 | 1/1 | 5.32 | 6.65 | -2.5 |
| TRUE | 1/1 | 1/1 | 5.32 | 6.65 | -2.5 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.22 | 9.52 | -9.86 |
| TRUE | 1/1 | 1/1 | 6.22 | 9.52 | -9.86 |
| TRUE | 1/1 | 1/1 | 6.22 | 9.52 | -9.86 |
| TRUE | 1/1 | 1/1 | 6.22 | 9.52 | -9.86 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.65 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.65 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.65 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.65 | 1.06 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 9.85 | 6.22 | 12.41 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 6.95 | 5.28 | 3.18 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.61 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.61 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.61 | 1.17 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 5.7 | 7.91 | -4.64 |
| TRUE | 1/1 | 1/1 | 5.7 | 7.91 | -4.64 |
| TRUE | 1/1 | 1/1 | 5.7 | 7.91 | -4.64 |
| TRUE | 1/1 | 1/1 | 5.7 | 7.91 | -4.64 |
| TRUE | 1/1 | 1/1 | 5.7 | 7.91 | -4.64 |
| TRUE | 1/1 | 1/1 | 5.7 | 7.91 | -4.64 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.16 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.76 | -1.8 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 5.82 | 4.04 | 3.45 |
| TRUE | 1/1 | 1/1 | 12.16 | 12.7 | -1.45 |
| TRUE | 1/1 | 1/1 | 12.16 | 12.7 | -1.45 |
| TRUE | 1/1 | 1/1 | 12.16 | 12.7 | -1.45 |
| TRUE | 1/1 | 1/1 | 12.16 | 12.7 | -1.45 |
| TRUE | 1/1 | 1/1 | 12.16 | 12.7 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.38 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 6.14 | 7.54 | -2.64 |
| TRUE | 1/1 | 1/1 | 5.44 | 7.39 | -3.85 |
| TRUE | 1/1 | 1/1 | 5.44 | 7.39 | -3.85 |
| TRUE | 1/1 | 1/1 | 5.44 | 7.39 | -3.85 |
| TRUE | 1/1 | 1/1 | 5.44 | 7.39 | -3.85 |
| TRUE | 1/1 | 1/1 | 4.5 | 5.94 | -2.71 |
| TRUE | 1/1 | 1/1 | 4.5 | 5.94 | -2.71 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 9.95 | 7.11 | 7.2 |
| TRUE | 1/1 | 1/1 | 9.95 | 7.11 | 7.2 |
| TRUE | 1/1 | 1/1 | 9.95 | 7.11 | 7.2 |
| TRUE | 1/1 | 1/1 | 9.95 | 7.11 | 7.2 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.51 | 3.01 | 1.42 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.09 | -1.86 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.09 | -1.86 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.09 | -1.86 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.09 | -1.86 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.09 | -1.86 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.85 | -1.38 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.85 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.74 | 5.63 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.74 | 5.63 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.74 | 5.63 | 1.08 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.95 | -2.58 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.91 | -1.95 |
| TRUE | 1/1 | 1/1 | 9.06 | 9.24 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.06 | 9.24 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.06 | 9.24 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.91 | 9.88 | -3.92 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 7.17 | 9.36 | -4.55 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.57 | 6.94 | -2.59 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.94 | -4.34 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.94 | -4.34 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.94 | -4.34 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.94 | -4.34 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.83 | 10.16 | -1.26 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 10 | 12.18 | -4.51 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.02 | 7.79 | -3.42 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.36 | 7 | -1.56 |
| TRUE | 1/1 | 1/1 | 11.73 | 12.33 | -1.51 |
| TRUE | 1/1 | 1/1 | 11.73 | 12.33 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.15 | 3.69 | 1.37 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.83 | 7.21 | -2.61 |
| TRUE | 1/1 | 1/1 | 5.83 | 7.21 | -2.61 |
| TRUE | 1/1 | 1/1 | 5.83 | 7.21 | -2.61 |
| TRUE | 1/1 | 1/1 | 8.97 | 9.93 | -1.95 |
| TRUE | 1/1 | 1/1 | 8.97 | 9.93 | -1.95 |
| TRUE | 1/1 | 1/1 | 8.97 | 9.93 | -1.95 |
| TRUE | 1/1 | 1/1 | 8.97 | 9.93 | -1.95 |
| TRUE | 1/1 | 1/1 | 8.97 | 9.93 | -1.95 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 9.05 | 10.12 | -2.09 |
| TRUE | 1/1 | 1/1 | 7.92 | 7.86 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.92 | 7.86 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.92 | 7.86 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.64 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.64 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.64 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.64 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.64 | -2.13 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 3.23 | 4.29 | -2.1 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.13 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.13 | -1.05 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.65 | 8.81 | -4.48 |
| TRUE | 1/1 | 1/1 | 6.65 | 8.81 | -4.48 |
| TRUE | 1/1 | 1/1 | 6.65 | 8.81 | -4.48 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 5.59 | 3.66 | 3.82 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.44 | 1.22 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.44 | 1.22 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 8.1 | 9.84 | -3.35 |
| TRUE | 1/1 | 1/1 | 5.85 | 7.61 | -3.39 |
| TRUE | 1/1 | 1/1 | 5.85 | 7.61 | -3.39 |
| TRUE | 1/1 | 1/1 | 5.85 | 7.61 | -3.39 |
| TRUE | 1/1 | 1/1 | 5.85 | 7.61 | -3.39 |
| TRUE | 1/1 | 1/1 | 5.85 | 7.61 | -3.39 |
| TRUE | 1/1 | 1/1 | 5.85 | 7.61 | -3.39 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 4.74 | 6.93 | -4.56 |
| TRUE | 1/1 | 1/1 | 9.26 | 9.36 | -1.07 |
| TRUE | 1/1 | 1/1 | 9.26 | 9.36 | -1.07 |
| TRUE | 1/1 | 1/1 | 9.26 | 9.36 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.59 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.59 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.59 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.59 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.06 | 3.59 | 1.39 |
| TRUE | 1/1 | 1/1 | 4.06 | 3.59 | 1.39 |
| TRUE | 1/1 | 1/1 | 4.06 | 3.59 | 1.39 |
| TRUE | 1/1 | 1/1 | 4.06 | 3.59 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 4.69 | 5.19 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.69 | 5.19 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.69 | 5.19 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.69 | 5.19 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.69 | 5.19 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.69 | 5.19 | -1.41 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.41 | 2.73 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.41 | 2.73 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.41 | 2.73 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.41 | 2.73 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.41 | 2.73 |
| TRUE | 1/1 | 1/1 | 9.66 | 10.02 | -1.28 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.08 | 7.77 | -3.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 7.77 | -3.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 7.77 | -3.22 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 12.49 | 8.89 | 12.17 |
| TRUE | 1/1 | 1/1 | 11.39 | 11.21 | 1.14 |
| TRUE | 1/1 | 1/1 | 11.39 | 11.21 | 1.14 |
| TRUE | 1/1 | 1/1 | 11.39 | 11.21 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.03 | 7.42 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.03 | 7.42 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.03 | 7.42 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.03 | 7.42 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 4.02 | 5.45 | -2.69 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.93 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.93 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.93 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.93 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.93 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.95 | -2.44 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.95 | -2.44 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.95 | -2.44 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.95 | -2.44 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.95 | -2.44 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.95 | -2.44 |
| TRUE | 1/1 | 1/1 | 5.81 | 7.03 | -2.33 |
| TRUE | 1/1 | 1/1 | 5.81 | 7.03 | -2.33 |
| TRUE | 1/1 | 1/1 | 5.81 | 7.03 | -2.33 |
| TRUE | 1/1 | 1/1 | 5.81 | 7.03 | -2.33 |
| TRUE | 1/1 | 1/1 | 5.81 | 7.03 | -2.33 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.81 | -2 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.81 | -2 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.81 | -2 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.81 | -2 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.81 | -2 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.58 | 6 | 1.49 |
| TRUE | 1/1 | 1/1 | 5.19 | 4.88 | 1.24 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 5.19 | 4.88 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.19 | 4.88 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 8.06 | 9.66 | -3.02 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.98 | -1.88 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.98 | -1.88 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.98 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.79 | 1.22 |
| TRUE | 1/1 | 1/1 | 8.44 | 7.68 | 1.69 |
| TRUE | 1/1 | 1/1 | 8.44 | 7.68 | 1.69 |
| TRUE | 1/1 | 1/1 | 8.44 | 7.68 | 1.69 |
| TRUE | 1/1 | 1/1 | 4.62 | 6.51 | -3.72 |
| TRUE | 1/1 | 1/1 | 4.62 | 6.51 | -3.72 |
| TRUE | 1/1 | 1/1 | 4.62 | 6.51 | -3.72 |
| TRUE | 1/1 | 1/1 | 4.62 | 6.51 | -3.72 |
| TRUE | 1/1 | 1/1 | 4.62 | 6.51 | -3.72 |
| TRUE | 1/1 | 1/1 | 4.97 | 4.42 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.97 | 4.42 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.97 | 4.42 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.97 | 4.42 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.97 | 4.42 | 1.46 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 11.32 | 10.3 | 2.03 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.15 | -1.58 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.15 | -1.58 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.15 | -1.58 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.15 | -1.58 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.15 | -1.58 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.15 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.28 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.28 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.28 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.28 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.45 | 8.17 | -3.28 |
| TRUE | 1/1 | 1/1 | 6.45 | 8.17 | -3.28 |
| TRUE | 1/1 | 1/1 | 6.45 | 8.17 | -3.28 |
| TRUE | 1/1 | 1/1 | 6.45 | 8.17 | -3.28 |
| TRUE | 1/1 | 1/1 | 6.45 | 8.17 | -3.28 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.01 | 6.94 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.09 | 2.18 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.09 | 2.18 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.09 | 2.18 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.09 | 2.18 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.75 | 1.8 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.75 | 1.8 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.75 | 1.8 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.75 | 1.8 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.02 | 6.32 | -2.46 |
| TRUE | 1/1 | 1/1 | 10.17 | 10.78 | -1.52 |
| TRUE | 1/1 | 1/1 | 10.17 | 10.78 | -1.52 |
| TRUE | 1/1 | 1/1 | 10.17 | 10.78 | -1.52 |
| TRUE | 1/1 | 1/1 | 10.17 | 10.78 | -1.52 |
| TRUE | 1/1 | 1/1 | 10.17 | 10.78 | -1.52 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 4.34 | 1.37 |
| TRUE | 1/1 | 1/1 | 7.61 | 8.11 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.61 | 8.11 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.61 | 8.11 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.39 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.39 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.39 | -1.43 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 4.64 | 6.63 | -3.98 |
| TRUE | 1/1 | 1/1 | 8.98 | 10.3 | -2.48 |
| TRUE | 1/1 | 1/1 | 8.98 | 10.3 | -2.48 |
| TRUE | 1/1 | 1/1 | 8.98 | 10.3 | -2.48 |
| TRUE | 1/1 | 1/1 | 8.98 | 10.3 | -2.48 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.4 | 8.2 | -3.46 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.82 | 5.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.28 | 3.02 | 38.31 |
| TRUE | 1/1 | 1/1 | 8.28 | 3.02 | 38.31 |
| TRUE | 1/1 | 1/1 | 8.28 | 3.02 | 38.31 |
| TRUE | 1/1 | 1/1 | 8.28 | 3.02 | 38.31 |
| TRUE | 1/1 | 1/1 | 8.28 | 3.02 | 38.31 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.09 | 6.43 | 1.59 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.64 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.64 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.64 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.64 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.17 | 9.2 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.17 | 9.2 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.17 | 9.2 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.17 | 9.2 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 7.82 | 9.02 | -2.3 |
| TRUE | 1/1 | 1/1 | 4.52 | 4.66 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.52 | 4.66 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.52 | 4.66 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.52 | 4.66 | -1.11 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.13 | 9.48 | -2.55 |
| TRUE | 1/1 | 1/1 | 8.13 | 9.48 | -2.55 |
| TRUE | 1/1 | 1/1 | 8.13 | 9.48 | -2.55 |
| TRUE | 1/1 | 1/1 | 8.13 | 9.48 | -2.55 |
| TRUE | 1/1 | 1/1 | 8.13 | 9.48 | -2.55 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 8.48 | 9.95 | -2.77 |
| TRUE | 1/1 | 1/1 | 11.39 | 12.05 | -1.59 |
| TRUE | 1/1 | 1/1 | 11.39 | 12.05 | -1.59 |
| TRUE | 1/1 | 1/1 | 11.39 | 12.05 | -1.59 |
| TRUE | 1/1 | 1/1 | 11.39 | 12.05 | -1.59 |
| TRUE | 1/1 | 1/1 | 11.39 | 12.05 | -1.59 |
| TRUE | 1/1 | 1/1 | 11.39 | 12.05 | -1.59 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.5 | 4.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 4.5 | 4.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 4.5 | 4.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 4.5 | 4.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.54 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.18 | 7.54 | -2.58 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.49 | 1.69 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.49 | 1.69 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.49 | 1.69 |
| TRUE | 1/1 | 1/1 | 6.74 | 8.83 | -4.25 |
| TRUE | 1/1 | 1/1 | 6.74 | 8.83 | -4.25 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.95 | -2.75 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.1 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.1 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.1 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.1 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.1 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.1 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.49 | 3.95 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.49 | 3.95 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.83 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.83 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.83 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.83 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.83 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.43 | 5.14 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.43 | 5.14 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.43 | 5.14 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.43 | 5.14 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.43 | 5.14 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.16 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.16 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.16 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.16 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.16 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.16 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.56 | 8.07 | -1.43 |
| TRUE | 1/1 | 1/1 | 7.56 | 8.07 | -1.43 |
| TRUE | 1/1 | 1/1 | 7.56 | 8.07 | -1.43 |
| TRUE | 1/1 | 1/1 | 7.56 | 8.07 | -1.43 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.35 | 9.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 5.86 | 5.78 | 1.05 |
| TRUE | 1/1 | 1/1 | 5.86 | 5.78 | 1.05 |
| TRUE | 1/1 | 1/1 | 5.23 | 6.11 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.23 | 6.11 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.23 | 6.11 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.23 | 6.11 | -1.84 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.12 | 5.93 | -1.75 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.01 | 4.84 | -1.78 |
| TRUE | 1/1 | 1/1 | 7.16 | 5.34 | 3.54 |
| TRUE | 1/1 | 1/1 | 7.16 | 5.34 | 3.54 |
| TRUE | 1/1 | 1/1 | 7.16 | 5.34 | 3.54 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.93 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.93 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.93 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.93 | -1.65 |
| TRUE | 1/1 | 1/1 | 4.86 | 3.15 | 3.27 |
| TRUE | 1/1 | 1/1 | 4.86 | 3.15 | 3.27 |
| TRUE | 1/1 | 1/1 | 4.86 | 3.15 | 3.27 |
| TRUE | 1/1 | 1/1 | 4.86 | 3.15 | 3.27 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.14 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.14 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.14 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.14 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 6.6 | 8.25 | -3.14 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 3.96 | 5.53 | -2.98 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.89 | -2.52 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.76 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.76 | 1.51 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.39 | 5.36 | -1.97 |
| TRUE | 1/1 | 1/1 | 5.83 | 5.88 | -1.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 5.88 | -1.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 5.88 | -1.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 5.88 | -1.03 |
| TRUE | 1/1 | 1/1 | 10.55 | 9.22 | 2.51 |
| TRUE | 1/1 | 1/1 | 10.55 | 9.22 | 2.51 |
| TRUE | 1/1 | 1/1 | 10.55 | 9.22 | 2.51 |
| TRUE | 1/1 | 1/1 | 10.55 | 9.22 | 2.51 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.7 | 1.55 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.7 | 1.55 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.7 | 1.55 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.7 | 1.55 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.08 | 1.82 |
| TRUE | 1/1 | 1/1 | 7.22 | 9.86 | -6.22 |
| TRUE | 1/1 | 1/1 | 7.22 | 9.86 | -6.22 |
| TRUE | 1/1 | 1/1 | 7.22 | 9.86 | -6.22 |
| TRUE | 1/1 | 1/1 | 7.22 | 9.86 | -6.22 |
| TRUE | 1/1 | 1/1 | 7.22 | 9.86 | -6.22 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 7.09 | 8.59 | -2.83 |
| TRUE | 1/1 | 1/1 | 5.23 | 5.06 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.23 | 5.06 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.23 | 5.06 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.01 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.38 | 5.13 | 2.37 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.38 | 5.13 | 2.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 5.13 | 2.37 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 7.99 | -3.19 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.96 | 4.88 | -1.89 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.83 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.04 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.04 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.04 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.07 | 5.04 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.74 | 5.8 | -1.04 |
| TRUE | 1/1 | 1/1 | 5.74 | 5.8 | -1.04 |
| TRUE | 1/1 | 1/1 | 5.74 | 5.8 | -1.04 |
| TRUE | 1/1 | 1/1 | 3.77 | 3.2 | 1.49 |
| TRUE | 1/1 | 1/1 | 3.77 | 3.2 | 1.49 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.29 | -1.6 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.99 | 1.35 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.99 | 1.35 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.99 | 1.35 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.99 | 1.35 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.99 | 1.35 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 9.26 | 10.9 | -3.12 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 6.69 | 8.05 | -2.58 |
| TRUE | 1/1 | 1/1 | 7.14 | 6.8 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.14 | 6.8 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.14 | 6.8 | 1.26 |
| TRUE | 1/1 | 1/1 | 7.14 | 6.8 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.8 | -1.2 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.8 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.04 | 8.82 | -3.45 |
| TRUE | 1/1 | 1/1 | 7.04 | 8.82 | -3.45 |
| TRUE | 1/1 | 1/1 | 7.04 | 8.82 | -3.45 |
| TRUE | 1/1 | 1/1 | 7.04 | 8.82 | -3.45 |
| TRUE | 1/1 | 1/1 | 7.04 | 8.82 | -3.45 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.34 | -2.1 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.71 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.71 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.71 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.71 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.57 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.57 | -1.01 |
| TRUE | 1/1 | 1/1 | 4.3 | 4.11 | 1.14 |
| TRUE | 1/1 | 1/1 | 4.3 | 4.11 | 1.14 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 4.73 | 5.91 | -2.26 |
| TRUE | 1/1 | 1/1 | 4.73 | 5.91 | -2.26 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.78 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 10.33 | 6.74 | 11.99 |
| TRUE | 1/1 | 1/1 | 7.36 | 8.49 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.36 | 8.49 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.36 | 8.49 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.36 | 8.49 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.36 | 8.49 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.36 | 8.49 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.68 | 4.76 | 3.8 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.39 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.39 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.39 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.39 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.39 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.83 | -1.35 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.17 | 5.89 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.89 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.89 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.89 | 1.21 |
| TRUE | 1/1 | 1/1 | 7.13 | 6.64 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.13 | 6.64 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.13 | 6.64 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.13 | 6.64 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.05 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.59 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.59 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.59 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.59 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.7 | -1.76 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.7 | -1.76 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.7 | -1.76 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 9.22 | -2.28 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.79 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.79 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.79 | 1.08 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.77 | 8.09 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.09 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.09 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.09 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.24 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.24 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.24 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.24 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.22 | 8.46 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.22 | 8.46 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.22 | 8.46 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.22 | 8.46 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.33 | 5.36 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.33 | 5.36 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.93 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.93 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.93 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.93 | -1.45 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 9 | 7.68 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.63 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.63 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.63 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.77 | 6.31 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.77 | 6.31 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.77 | 6.31 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.77 | 6.31 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.77 | 6.31 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.3 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.3 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.3 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.3 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.3 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.25 | 5.81 | 2.72 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.41 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.41 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.41 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.41 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.41 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.88 | -1.5 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.58 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 2.98 | 3.84 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.3 | -2.79 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.3 | -2.79 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.3 | -2.79 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.3 | -2.79 |
| TRUE | 1/1 | 1/1 | 5.82 | 7.3 | -2.79 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.63 | 1.74 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.63 | 1.74 |
| TRUE | 1/1 | 1/1 | 8.33 | 6.88 | 2.72 |
| TRUE | 1/1 | 1/1 | 8.33 | 6.88 | 2.72 |
| TRUE | 1/1 | 1/1 | 8.33 | 6.88 | 2.72 |
| TRUE | 1/1 | 1/1 | 8.33 | 6.88 | 2.72 |
| TRUE | 1/1 | 1/1 | 8.33 | 6.88 | 2.72 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.36 | 2.36 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.36 | 2.36 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.36 | 2.36 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.36 | 2.36 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.58 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.52 | 1.25 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.52 | 1.25 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.44 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.44 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.44 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.82 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.82 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.82 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.82 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.82 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.15 | 1.69 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.15 | 1.69 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.3 | 7.51 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.51 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.51 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.51 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.51 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.26 | 5.21 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.26 | 5.21 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.26 | 5.21 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.02 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.02 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.02 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.49 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.89 | 7.16 | 1.66 |
| TRUE | 1/1 | 1/1 | 7.89 | 7.16 | 1.66 |
| TRUE | 1/1 | 1/1 | 9.68 | 9.62 | 1.04 |
| TRUE | 1/1 | 1/1 | 9.68 | 9.62 | 1.04 |
| TRUE | 1/1 | 1/1 | 9.68 | 9.62 | 1.04 |
| TRUE | 1/1 | 1/1 | 9.68 | 9.62 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.91 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.91 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.91 | -1.05 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.42 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.42 | 1.06 |
| TRUE | 1/1 | 1/1 | 8.65 | 8.55 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.65 | 8.55 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.65 | 8.55 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.65 | 8.55 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.65 | 8.55 | 1.08 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 3.4 | 3.86 | -1.38 |
| TRUE | 1/1 | 1/1 | 8.32 | 7.6 | 1.65 |
| TRUE | 1/1 | 1/1 | 8.32 | 7.6 | 1.65 |
| TRUE | 1/1 | 1/1 | 8.32 | 7.6 | 1.65 |
| TRUE | 1/1 | 1/1 | 8.32 | 7.6 | 1.65 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.72 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.72 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.72 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.72 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.72 | 1.15 |
| TRUE | 1/1 | 1/1 | 5.04 | 3.88 | 2.23 |
| TRUE | 1/1 | 1/1 | 5.04 | 3.88 | 2.23 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.65 | 4.87 | 1.72 |
| TRUE | 1/1 | 1/1 | 5.65 | 4.87 | 1.72 |
| TRUE | 1/1 | 1/1 | 5.65 | 4.87 | 1.72 |
| TRUE | 1/1 | 1/1 | 5.65 | 4.87 | 1.72 |
| TRUE | 1/1 | 1/1 | 5.65 | 4.87 | 1.72 |
| TRUE | 1/1 | 1/1 | 5.65 | 4.87 | 1.72 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.48 | -1.95 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.48 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.68 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.68 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.68 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.68 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.68 | -1.43 |
| TRUE | 1/1 | 1/1 | 5.53 | 6.65 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.53 | 6.65 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.53 | 6.65 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.53 | 6.65 | -2.17 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 11.16 | 12.09 | -1.91 |
| TRUE | 1/1 | 1/1 | 5.01 | 6.19 | -2.27 |
| TRUE | 1/1 | 1/1 | 5.01 | 6.19 | -2.27 |
| TRUE | 1/1 | 1/1 | 5.01 | 6.19 | -2.27 |
| TRUE | 1/1 | 1/1 | 5.01 | 6.19 | -2.27 |
| TRUE | 1/1 | 1/1 | 5.01 | 6.19 | -2.27 |
| TRUE | 1/1 | 1/1 | 5.01 | 6.19 | -2.27 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.93 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.93 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.93 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.93 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.93 | -1.35 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.12 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.12 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.12 | 1.07 |
| TRUE | 1/1 | 1/1 | 4.16 | 5.61 | -2.73 |
| TRUE | 1/1 | 1/1 | 4.16 | 5.61 | -2.73 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.79 | -1.61 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.79 | -1.61 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.79 | -1.61 |
| TRUE | 1/1 | 1/1 | 7.16 | 6.97 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.16 | 6.97 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.16 | 6.97 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.2 | 8.42 | -1.16 |
| TRUE | 1/1 | 1/1 | 8.2 | 8.42 | -1.16 |
| TRUE | 1/1 | 1/1 | 8.2 | 8.42 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.7 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.7 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.7 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.7 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.7 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.51 | -1.05 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.44 | 6.51 | -1.05 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.42 | 3.86 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.77 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.77 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.77 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.77 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.77 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.93 | -2.46 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.93 | -2.46 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.93 | -2.46 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.93 | -2.46 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.93 | -2.46 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.95 | -2.5 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.71 | -1.66 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.36 | -1.53 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.03 | 1.29 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.03 | 1.29 |
| TRUE | 1/1 | 1/1 | 4.6 | 6.56 | -3.87 |
| TRUE | 1/1 | 1/1 | 4.6 | 6.56 | -3.87 |
| TRUE | 1/1 | 1/1 | 4.6 | 6.56 | -3.87 |
| TRUE | 1/1 | 1/1 | 4.6 | 6.56 | -3.87 |
| TRUE | 1/1 | 1/1 | 4.6 | 6.56 | -3.87 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.21 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.21 | -1.12 |
| TRUE | 1/1 | 1/1 | 4.26 | 5.59 | -2.51 |
| TRUE | 1/1 | 1/1 | 4.26 | 5.59 | -2.51 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.26 | 5.59 | -2.51 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.03 | 7.58 | 1.36 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.44 | -1.99 |
| TRUE | 1/1 | 1/1 | 3.62 | 4.06 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.62 | 4.06 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.62 | 4.06 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.67 | -1.25 |
| TRUE | 1/1 | 1/1 | 9.22 | 10.42 | -2.3 |
| TRUE | 1/1 | 1/1 | 9.22 | 10.42 | -2.3 |
| TRUE | 1/1 | 1/1 | 9.22 | 10.42 | -2.3 |
| TRUE | 1/1 | 1/1 | 9.22 | 10.42 | -2.3 |
| TRUE | 1/1 | 1/1 | 9.22 | 10.42 | -2.3 |
| TRUE | 1/1 | 1/1 | 9.22 | 10.42 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.21 | 8.53 | -1.25 |
| TRUE | 1/1 | 1/1 | 8.21 | 8.53 | -1.25 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 9.65 | 10.47 | -1.77 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.38 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.38 | -1.18 |
| TRUE | 1/1 | 1/1 | 4.99 | 5.73 | -1.67 |
| TRUE | 1/1 | 1/1 | 4.99 | 5.73 | -1.67 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.39 | 7.37 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.57 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.57 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.47 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.47 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.47 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.47 | -1.56 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.38 | -1.55 |
| TRUE | 1/1 | 1/1 | 9.3 | 9.96 | -1.58 |
| TRUE | 1/1 | 1/1 | 9.3 | 9.96 | -1.58 |
| TRUE | 1/1 | 1/1 | 9.3 | 9.96 | -1.58 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.3 | -1.47 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.3 | -1.47 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.3 | -1.47 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.3 | -1.47 |
| TRUE | 1/1 | 1/1 | 2.96 | 3.29 | -1.26 |
| TRUE | 1/1 | 1/1 | 2.96 | 3.29 | -1.26 |
| TRUE | 1/1 | 1/1 | 2.96 | 3.29 | -1.26 |
| TRUE | 1/1 | 1/1 | 3.07 | 3.46 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.07 | 3.46 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.07 | 3.46 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.46 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.46 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.46 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.46 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.05 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.05 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.25 | 3.48 | -1.18 |
| TRUE | 1/1 | 1/1 | 3.25 | 3.48 | -1.18 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.76 | 6.41 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.41 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.41 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.41 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.41 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.41 | -1.57 |
| TRUE | 1/1 | 1/1 | 3.85 | 4.82 | -1.96 |
| TRUE | 1/1 | 1/1 | 3.85 | 4.82 | -1.96 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.18 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.18 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.18 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.3 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.3 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.3 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.21 | 3.99 | 1.16 |
| TRUE | 1/1 | 1/1 | 4.21 | 3.99 | 1.16 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.11 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.11 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.11 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.11 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.11 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.11 | -1.05 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.01 | 1.25 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.01 | 1.25 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.01 | 1.25 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.01 | 1.25 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.01 | 1.25 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.19 | 6.43 | -2.37 |
| TRUE | 1/1 | 1/1 | 5.62 | 6.66 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.62 | 6.66 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.62 | 6.66 | -2.06 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.49 | 6.24 | -1.68 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.84 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.86 | 9.17 | -1.24 |
| TRUE | 1/1 | 1/1 | 8.86 | 9.17 | -1.24 |
| TRUE | 1/1 | 1/1 | 8.86 | 9.17 | -1.24 |
| TRUE | 1/1 | 1/1 | 8.86 | 9.17 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.77 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.77 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.59 | 7 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.59 | 7 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.59 | 7 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.59 | 7 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.58 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.58 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.58 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.33 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.33 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.33 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.33 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.76 | 9.21 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.76 | 9.21 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.76 | 9.21 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.11 | -1.76 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.11 | -1.76 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.11 | -1.76 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.59 | 1.28 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.61 | 8.43 | -1.77 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.65 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.65 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.65 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.91 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.72 | -1.55 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.72 | -1.55 |
| TRUE | 1/1 | 1/1 | 8.66 | 8.99 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.66 | 8.99 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.66 | 8.99 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.66 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.66 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.66 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.66 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.66 | -1.52 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 12.4 | 10.11 | 4.88 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.58 | -2.05 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.74 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.93 | 6.82 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.93 | 6.82 | 1.08 |
| TRUE | 1/1 | 1/1 | 10.16 | 10.67 | -1.42 |
| TRUE | 1/1 | 1/1 | 10.16 | 10.67 | -1.42 |
| TRUE | 1/1 | 1/1 | 10.16 | 10.67 | -1.42 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 5.1 | 4.5 | 1.52 |
| TRUE | 1/1 | 1/1 | 5.1 | 4.5 | 1.52 |
| TRUE | 1/1 | 1/1 | 5.1 | 4.5 | 1.52 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.43 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.47 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.47 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.47 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.47 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.47 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.47 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.39 | 1.42 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.39 | 1.42 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.39 | 1.42 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.39 | 1.42 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.16 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.84 | 5.93 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.84 | 5.93 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.84 | 5.93 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.78 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.78 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.78 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.78 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.78 | -1.44 |
| TRUE | 1/1 | 1/1 | 12.45 | 11.9 | 1.47 |
| TRUE | 1/1 | 1/1 | 12.45 | 11.9 | 1.47 |
| TRUE | 1/1 | 1/1 | 12.45 | 11.9 | 1.47 |
| TRUE | 1/1 | 1/1 | 12.45 | 11.9 | 1.47 |
| TRUE | 1/1 | 1/1 | 12.45 | 11.9 | 1.47 |
| TRUE | 1/1 | 1/1 | 3.88 | 3.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 3.88 | 3.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 3.88 | 3.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 3.88 | 3.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 3.88 | 3.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.21 | 3.07 | 2.2 |
| TRUE | 1/1 | 1/1 | 4.21 | 3.07 | 2.2 |
| TRUE | 1/1 | 1/1 | 4.21 | 3.07 | 2.2 |
| TRUE | 1/1 | 1/1 | 4.21 | 3.07 | 2.2 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.25 | 5.74 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.25 | 5.74 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.25 | 5.74 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 6.3 | 8.01 | -3.26 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.86 | 7.08 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.86 | 7.08 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.77 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.77 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.77 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.77 | -1.59 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.15 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.15 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.15 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.15 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.15 | -1.31 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 9.36 | 10.68 | -2.49 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.05 | 1.71 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.05 | 1.71 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.05 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.08 | 1.09 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.08 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.49 | 4.43 | 2.08 |
| TRUE | 1/1 | 1/1 | 5.49 | 4.43 | 2.08 |
| TRUE | 1/1 | 1/1 | 5.49 | 4.43 | 2.08 |
| TRUE | 1/1 | 1/1 | 5.33 | 4.3 | 2.04 |
| TRUE | 1/1 | 1/1 | 5.33 | 4.3 | 2.04 |
| TRUE | 1/1 | 1/1 | 5.33 | 4.3 | 2.04 |
| TRUE | 1/1 | 1/1 | 2.94 | 3.46 | -1.43 |
| TRUE | 1/1 | 1/1 | 2.94 | 3.46 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.48 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.48 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.48 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.48 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.48 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.42 | 6.3 | 2.17 |
| TRUE | 1/1 | 1/1 | 7.42 | 6.3 | 2.17 |
| TRUE | 1/1 | 1/1 | 7.42 | 6.3 | 2.17 |
| TRUE | 1/1 | 1/1 | 7.42 | 6.3 | 2.17 |
| TRUE | 1/1 | 1/1 | 6.1 | 7.31 | -2.32 |
| TRUE | 1/1 | 1/1 | 6.1 | 7.31 | -2.32 |
| TRUE | 1/1 | 1/1 | 6.1 | 7.31 | -2.32 |
| TRUE | 1/1 | 1/1 | 6.1 | 7.31 | -2.32 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.9 | 8.26 | -2.56 |
| TRUE | 1/1 | 1/1 | 6.9 | 8.26 | -2.56 |
| TRUE | 1/1 | 1/1 | 6.9 | 8.26 | -2.56 |
| TRUE | 1/1 | 1/1 | 6.9 | 8.26 | -2.56 |
| TRUE | 1/1 | 1/1 | 5.55 | 5.69 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.55 | 5.69 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.55 | 5.69 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.55 | 5.69 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.55 | 5.69 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.55 | 5.69 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.61 | -2.63 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.61 | -2.63 |
| TRUE | 1/1 | 1/1 | 7.22 | 8.61 | -2.63 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.13 | 1.03 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.13 | 1.03 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.13 | 1.03 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.13 | 1.03 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.13 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.83 | -1.1 |
| TRUE | 1/1 | 1/1 | 9.81 | 10.11 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.81 | 10.11 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.81 | 10.11 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.81 | 10.11 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.27 | 5.7 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.65 | -2.22 |
| TRUE | 1/1 | 1/1 | 4.79 | 5 | -1.16 |
| TRUE | 1/1 | 1/1 | 4.79 | 5 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.28 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.28 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.28 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.02 | 1.81 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.02 | 1.81 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.02 | 1.81 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.02 | 1.81 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.02 | 1.81 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.02 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.62 | 4.51 | 2.16 |
| TRUE | 1/1 | 1/1 | 5.62 | 4.51 | 2.16 |
| TRUE | 1/1 | 1/1 | 5.62 | 4.51 | 2.16 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.55 | 10.32 | -3.43 |
| TRUE | 1/1 | 1/1 | 8.55 | 10.32 | -3.43 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.31 | 1.72 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.31 | 1.72 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.31 | 1.72 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.31 | 1.72 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.31 | 1.72 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.28 | -1.8 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 10.26 | 11.69 | -2.69 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.1 | -1.14 |
| TRUE | 1/1 | 1/1 | 4.82 | 5.85 | -2.04 |
| TRUE | 1/1 | 1/1 | 4.82 | 5.85 | -2.04 |
| TRUE | 1/1 | 1/1 | 4.82 | 5.85 | -2.04 |
| TRUE | 1/1 | 1/1 | 4.82 | 5.85 | -2.04 |
| TRUE | 1/1 | 1/1 | 4.82 | 5.85 | -2.04 |
| TRUE | 1/1 | 1/1 | 4.4 | 3.84 | 1.48 |
| TRUE | 1/1 | 1/1 | 4.4 | 3.84 | 1.48 |
| TRUE | 1/1 | 1/1 | 4.4 | 3.84 | 1.48 |
| TRUE | 1/1 | 1/1 | 4.4 | 3.84 | 1.48 |
| TRUE | 1/1 | 1/1 | 4.4 | 3.84 | 1.48 |
| TRUE | 1/1 | 1/1 | 4.4 | 3.84 | 1.48 |
| TRUE | 1/1 | 1/1 | 3.13 | 4.62 | -2.81 |
| TRUE | 1/1 | 1/1 | 3.13 | 4.62 | -2.81 |
| TRUE | 1/1 | 1/1 | 3.13 | 4.62 | -2.81 |
| TRUE | 1/1 | 1/1 | 3.13 | 4.62 | -2.81 |
| TRUE | 1/1 | 1/1 | 12.8 | 12.9 | -1.07 |
| TRUE | 1/1 | 1/1 | 12.8 | 12.9 | -1.07 |
| TRUE | 1/1 | 1/1 | 12.8 | 12.9 | -1.07 |
| TRUE | 1/1 | 1/1 | 12.8 | 12.9 | -1.07 |
| TRUE | 1/1 | 1/1 | 12.8 | 12.9 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.11 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.11 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.11 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.76 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.76 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.76 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.76 | -1.09 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.26 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.26 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.26 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.26 | -1.27 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.67 | -2.09 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.53 | 1 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.53 | 1 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.53 | 1 |
| TRUE | 1/1 | 1/1 | 7.99 | 7.22 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.99 | 7.22 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.99 | 7.22 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.44 | 5.81 | 1.55 |
| TRUE | 1/1 | 1/1 | 6.44 | 5.81 | 1.55 |
| TRUE | 1/1 | 1/1 | 5.12 | 4.6 | 1.43 |
| TRUE | 1/1 | 1/1 | 5.12 | 4.6 | 1.43 |
| TRUE | 1/1 | 1/1 | 5.12 | 4.6 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.94 | 10.35 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.07 | 7.31 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.07 | 7.31 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.07 | 7.31 | -1.18 |
| TRUE | 1/1 | 1/1 | 4.79 | 5.21 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.79 | 5.21 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.93 | 9.07 | -2.2 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 9.74 | 8.73 | 2.02 |
| TRUE | 1/1 | 1/1 | 5.27 | 6.31 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.27 | 6.31 | -2.06 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.51 | 8.7 | -2.28 |
| TRUE | 1/1 | 1/1 | 5.31 | 5.25 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.31 | 5.25 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.31 | 5.25 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.31 | 5.25 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.91 | 8.75 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.91 | 8.75 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.91 | 8.75 | -1.79 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.61 | 1.33 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.61 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.24 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.24 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.24 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.24 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.91 | 7.99 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.91 | 7.99 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.56 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.56 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.56 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.56 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.56 | 1.23 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.23 | 1.58 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.23 | 1.58 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.23 | 1.58 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.23 | 1.58 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.23 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.32 | 5.79 | 1.45 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.37 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.37 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.37 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.37 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.37 | -1.19 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 3.28 | 3.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.44 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.44 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.44 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.44 | 1.01 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.45 | 7.44 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.36 | 1.14 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.36 | 1.14 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.43 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.43 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.68 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.68 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.68 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.68 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.68 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.88 | 6.68 | -1.74 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.27 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.27 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.27 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.27 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.27 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.27 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.49 | 7.5 | -2.01 |
| TRUE | 1/1 | 1/1 | 6.49 | 7.5 | -2.01 |
| TRUE | 1/1 | 1/1 | 6.49 | 7.5 | -2.01 |
| TRUE | 1/1 | 1/1 | 6.49 | 7.5 | -2.01 |
| TRUE | 1/1 | 1/1 | 6.49 | 7.5 | -2.01 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.84 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.84 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.67 | -2.02 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.67 | -2.02 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.67 | -2.02 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.08 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.08 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.08 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.72 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.72 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.72 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.72 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.72 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.51 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.51 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.51 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.51 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.51 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 7.19 | 8.51 | -2.5 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.32 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.32 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.32 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.32 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.32 | -1.63 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |
| TRUE | 1/1 | 1/1 | 3.99 | 4.92 | -1.91 |
| TRUE | 1/1 | 1/1 | 3.99 | 4.92 | -1.91 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.49 | -2.31 |
| TRUE | 1/1 | 1/1 | 8.8 | 9.57 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.8 | 9.57 | -1.7 |
| TRUE | 1/1 | 1/1 | 3.04 | 4.02 | -1.97 |
| TRUE | 1/1 | 1/1 | 3.04 | 4.02 | -1.97 |
| TRUE | 1/1 | 1/1 | 3.04 | 4.02 | -1.97 |
| TRUE | 1/1 | 1/1 | 3.04 | 4.02 | -1.97 |
| TRUE | 1/1 | 1/1 | 3.04 | 4.02 | -1.97 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.87 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.58 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.53 | -1.16 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.53 | -1.16 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.53 | -1.16 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 5.24 | 6.67 | -2.7 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 3.52 | 3.08 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.3 | 1.46 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.3 | 1.46 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.93 | -1.26 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.03 | 5.19 | 7.17 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.48 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.48 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.48 | 1.36 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.75 | 7.7 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.8 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.8 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.8 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.8 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.8 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.4 | -1.99 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.4 | -1.99 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.4 | -1.99 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.4 | -1.99 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.4 | -1.99 |
| TRUE | 1/1 | 1/1 | 7.88 | 8.31 | -1.35 |
| TRUE | 1/1 | 1/1 | 7.88 | 8.31 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.51 | -1.59 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.81 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.81 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.81 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.81 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.81 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.68 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.68 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.68 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.68 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.04 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.84 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.84 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.84 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.44 | 7.83 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.44 | 7.83 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.23 | 5.7 | 2.88 |
| TRUE | 1/1 | 1/1 | 7.23 | 5.7 | 2.88 |
| TRUE | 1/1 | 1/1 | 7.23 | 5.7 | 2.88 |
| TRUE | 1/1 | 1/1 | 7.23 | 5.7 | 2.88 |
| TRUE | 1/1 | 1/1 | 7.23 | 5.7 | 2.88 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.21 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 4.99 | 3.44 |
| TRUE | 1/1 | 1/1 | 10.15 | 11.16 | -2.01 |
| TRUE | 1/1 | 1/1 | 10.15 | 11.16 | -2.01 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.35 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.35 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.35 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.35 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.23 | -1.72 |
| TRUE | 1/1 | 1/1 | 12.34 | 13.1 | -1.69 |
| TRUE | 1/1 | 1/1 | 12.34 | 13.1 | -1.69 |
| TRUE | 1/1 | 1/1 | 12.34 | 13.1 | -1.69 |
| TRUE | 1/1 | 1/1 | 12.34 | 13.1 | -1.69 |
| TRUE | 1/1 | 1/1 | 12.34 | 13.1 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.43 | 8.57 | -2.21 |
| TRUE | 1/1 | 1/1 | 7.43 | 8.57 | -2.21 |
| TRUE | 1/1 | 1/1 | 7.43 | 8.57 | -2.21 |
| TRUE | 1/1 | 1/1 | 7.43 | 8.57 | -2.21 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.57 | -1.24 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.57 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.28 | 5.16 | -1.85 |
| TRUE | 1/1 | 1/1 | 4.28 | 5.16 | -1.85 |
| TRUE | 1/1 | 1/1 | 4.28 | 5.16 | -1.85 |
| TRUE | 1/1 | 1/1 | 4.28 | 5.16 | -1.85 |
| TRUE | 1/1 | 1/1 | 5.08 | 4.73 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.08 | 4.73 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.08 | 4.73 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.08 | 4.73 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.08 | 4.73 | 1.28 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.86 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.86 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.86 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.5 | 7.16 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.5 | 7.16 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.41 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.41 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.41 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.18 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.18 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.18 | -1.06 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.24 | 7.94 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.24 | 7.94 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.24 | 7.94 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.24 | 7.94 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 8.21 | 9.18 | -1.96 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.23 | -1.91 |
| TRUE | 1/1 | 1/1 | 8.21 | 7.94 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.21 | 7.94 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.44 | 1.05 |
| TRUE | 1/1 | 1/1 | 10.74 | 10.86 | -1.09 |
| TRUE | 1/1 | 1/1 | 10.74 | 10.86 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.93 | -1.8 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.93 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.46 | 8.13 | -3.18 |
| TRUE | 1/1 | 1/1 | 6.46 | 8.13 | -3.18 |
| TRUE | 1/1 | 1/1 | 6.46 | 8.13 | -3.18 |
| TRUE | 1/1 | 1/1 | 6.46 | 8.13 | -3.18 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.17 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.17 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.17 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.17 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.25 | 7.47 | -2.34 |
| TRUE | 1/1 | 1/1 | 6.25 | 7.47 | -2.34 |
| TRUE | 1/1 | 1/1 | 6.25 | 7.47 | -2.34 |
| TRUE | 1/1 | 1/1 | 6.25 | 7.47 | -2.34 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.51 | 8.42 | -1.89 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.32 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.32 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.32 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.87 | 6.32 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 9.62 | 10.74 | -2.18 |
| TRUE | 1/1 | 1/1 | 7 | 7.46 | -1.38 |
| TRUE | 1/1 | 1/1 | 7 | 7.46 | -1.38 |
| TRUE | 1/1 | 1/1 | 7 | 7.46 | -1.38 |
| TRUE | 1/1 | 1/1 | 7 | 7.46 | -1.38 |
| TRUE | 1/1 | 1/1 | 7 | 7.46 | -1.38 |
| TRUE | 1/1 | 1/1 | 7 | 7.46 | -1.38 |
| TRUE | 1/1 | 1/1 | 7.21 | 8.51 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.21 | 8.51 | -2.46 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.47 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.47 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.47 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.47 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.47 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.3 | 4.76 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.3 | 4.76 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.3 | 4.76 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.3 | 4.76 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.93 | 9.17 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.29 | 7.93 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.29 | 7.93 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.29 | 7.93 | 1.28 |
| TRUE | 1/1 | 1/1 | 6.28 | 7.19 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.28 | 7.19 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.28 | 7.19 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.28 | 7.19 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.28 | 7.19 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.28 | 7.19 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.58 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.58 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.58 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.58 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.58 | -1.2 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.38 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.38 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.38 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.38 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.38 | -1.53 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 6.42 | 5.65 | 1.71 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.88 | 6.59 | 2.44 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.05 | 1.6 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.05 | 1.6 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.59 | -1.83 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.59 | -1.83 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.59 | -1.83 |
| TRUE | 1/1 | 1/1 | 3.72 | 4.59 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.91 | -2.47 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 10.66 | 8.67 | 3.96 |
| TRUE | 1/1 | 1/1 | 4.79 | 4.56 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.79 | 4.56 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.79 | 4.56 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.79 | 4.56 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.79 | 4.56 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.78 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.78 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.78 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.78 | -1.15 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 6.22 | 7.64 | -2.68 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.67 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.67 | 1.15 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.93 | 1.67 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.78 | -2.35 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.78 | -2.35 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.78 | -2.35 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.78 | -2.35 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.78 | -2.35 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.78 | -2.35 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.71 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.71 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.71 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.71 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.71 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.05 | 5.72 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.05 | 5.72 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.49 | -1.73 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.49 | -1.73 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.49 | -1.73 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.49 | -1.73 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.49 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.75 | -1.56 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.75 | -1.56 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.75 | -1.56 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.75 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.78 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.78 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.21 | 5.64 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.21 | 5.64 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.21 | 5.64 | 1.49 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.06 | 6.86 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.86 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.86 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.86 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.86 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.86 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.83 | 5.92 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.83 | 5.92 | -1.07 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.03 | 1.23 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.03 | 1.23 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.03 | 1.23 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.03 | 1.23 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.03 | 1.23 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.03 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.87 | -2.53 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 5.17 | 3.52 | 3.12 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.23 | 10.47 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.16 | 9.87 | -1.63 |
| TRUE | 1/1 | 1/1 | 9.16 | 9.87 | -1.63 |
| TRUE | 1/1 | 1/1 | 9.16 | 9.87 | -1.63 |
| TRUE | 1/1 | 1/1 | 9.16 | 9.87 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.73 | 8.48 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.13 | -1.87 |
| TRUE | 1/1 | 1/1 | 4.36 | 5.13 | -1.7 |
| TRUE | 1/1 | 1/1 | 4.36 | 5.13 | -1.7 |
| TRUE | 1/1 | 1/1 | 5.75 | 5.99 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.75 | 5.99 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.95 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.95 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.95 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.95 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.95 | 1.26 |
| TRUE | 1/1 | 1/1 | 9.95 | 10.4 | -1.36 |
| TRUE | 1/1 | 1/1 | 9.95 | 10.4 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.64 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.64 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.64 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.41 | 8.94 | -2.88 |
| TRUE | 1/1 | 1/1 | 7.41 | 8.94 | -2.88 |
| TRUE | 1/1 | 1/1 | 7.41 | 8.94 | -2.88 |
| TRUE | 1/1 | 1/1 | 7.41 | 8.94 | -2.88 |
| TRUE | 1/1 | 1/1 | 8.27 | 9.79 | -2.87 |
| TRUE | 1/1 | 1/1 | 8.27 | 9.79 | -2.87 |
| TRUE | 1/1 | 1/1 | 8.27 | 9.79 | -2.87 |
| TRUE | 1/1 | 1/1 | 3.43 | 4.42 | -1.98 |
| TRUE | 1/1 | 1/1 | 3.43 | 4.42 | -1.98 |
| TRUE | 1/1 | 1/1 | 3.43 | 4.42 | -1.98 |
| TRUE | 1/1 | 1/1 | 3.43 | 4.42 | -1.98 |
| TRUE | 1/1 | 1/1 | 3.43 | 4.42 | -1.98 |
| TRUE | 1/1 | 1/1 | 3.43 | 4.42 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.52 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.52 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.52 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.52 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.52 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.76 | -1.9 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.17 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.89 | 8.17 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.76 | 8.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.68 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.68 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.68 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.68 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.68 | -1.39 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.97 | -1.83 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.97 | -1.83 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.6 | -1.71 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.45 | -1.79 |
| TRUE | 1/1 | 1/1 | 10.32 | 11.03 | -1.64 |
| TRUE | 1/1 | 1/1 | 10.32 | 11.03 | -1.64 |
| TRUE | 1/1 | 1/1 | 10.32 | 11.03 | -1.64 |
| TRUE | 1/1 | 1/1 | 10.32 | 11.03 | -1.64 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.52 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.52 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.52 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.52 | -1.25 |
| TRUE | 1/1 | 1/1 | 3.83 | 4.92 | -2.13 |
| TRUE | 1/1 | 1/1 | 3.83 | 4.92 | -2.13 |
| TRUE | 1/1 | 1/1 | 3.83 | 4.92 | -2.13 |
| TRUE | 1/1 | 1/1 | 8.02 | 10.48 | -5.5 |
| TRUE | 1/1 | 1/1 | 8.02 | 10.48 | -5.5 |
| TRUE | 1/1 | 1/1 | 8.18 | 8.79 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.18 | 8.79 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.18 | 8.79 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.18 | 8.79 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.29 | 1.64 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.29 | 1.64 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.29 | 1.64 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.81 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.81 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.81 | -1.45 |
| TRUE | 1/1 | 1/1 | 4.45 | 3.98 | 1.39 |
| TRUE | 1/1 | 1/1 | 4.45 | 3.98 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.08 | 3.43 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.08 | 3.43 |
| TRUE | 1/1 | 1/1 | 5.85 | 4.08 | 3.43 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.61 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.61 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.61 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.61 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.61 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.61 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.8 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.57 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.57 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.57 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.57 | 7.23 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.55 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.55 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.55 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.55 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.6 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.6 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.91 | 5.6 | -1.61 |
| TRUE | 1/1 | 1/1 | 6.52 | 6.73 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.52 | 6.73 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.59 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.59 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.59 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.59 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.59 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.59 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.28 | 5.71 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.28 | 5.71 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.28 | 5.71 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.28 | 5.71 | 1.49 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.5 | -1.49 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.5 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 6.62 | 8.06 | -2.72 |
| TRUE | 1/1 | 1/1 | 7.53 | 5.18 | 5.09 |
| TRUE | 1/1 | 1/1 | 7.53 | 5.18 | 5.09 |
| TRUE | 1/1 | 1/1 | 7.53 | 5.18 | 5.09 |
| TRUE | 1/1 | 1/1 | 7.53 | 5.18 | 5.09 |
| TRUE | 1/1 | 1/1 | 7.53 | 5.18 | 5.09 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.15 | -1.93 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.13 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.24 | 5.64 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.24 | 5.64 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.24 | 5.64 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.24 | 5.64 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.24 | 5.64 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.24 | 5.64 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.71 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.71 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.71 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.71 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.71 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.71 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.09 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.09 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.09 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.09 | -1.44 |
| TRUE | 1/1 | 1/1 | 10.7 | 11.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 10.7 | 11.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 10.7 | 11.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.97 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.97 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.97 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.97 | -1.41 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 3.93 | 3.53 | 1.31 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 7 | 8.27 | -2.4 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.11 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.11 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.11 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.11 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.11 | 1.73 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.6 | 3.93 | 3.2 |
| TRUE | 1/1 | 1/1 | 5.6 | 3.93 | 3.2 |
| TRUE | 1/1 | 1/1 | 5.6 | 3.93 | 3.2 |
| TRUE | 1/1 | 1/1 | 5.6 | 3.93 | 3.2 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.95 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.95 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.95 | -1.17 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.83 | -1.57 |
| TRUE | 1/1 | 1/1 | 10.18 | 10.63 | -1.36 |
| TRUE | 1/1 | 1/1 | 10.18 | 10.63 | -1.36 |
| TRUE | 1/1 | 1/1 | 10.18 | 10.63 | -1.36 |
| TRUE | 1/1 | 1/1 | 8.69 | 8.01 | 1.6 |
| TRUE | 1/1 | 1/1 | 8.69 | 8.01 | 1.6 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.18 | -1.46 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.18 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.3 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.3 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.3 | -1.18 |
| TRUE | 1/1 | 1/1 | 10.43 | 9.19 | 2.36 |
| TRUE | 1/1 | 1/1 | 10.43 | 9.19 | 2.36 |
| TRUE | 1/1 | 1/1 | 10.43 | 9.19 | 2.36 |
| TRUE | 1/1 | 1/1 | 10.43 | 9.19 | 2.36 |
| TRUE | 1/1 | 1/1 | 10.43 | 9.19 | 2.36 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.15 | 2.33 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.88 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.88 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.88 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.88 | 1.25 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 11.21 | 11.87 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.23 | -1.61 |
| TRUE | 1/1 | 1/1 | 3.87 | 5.01 | -2.21 |
| TRUE | 1/1 | 1/1 | 3.87 | 5.01 | -2.21 |
| TRUE | 1/1 | 1/1 | 3.87 | 5.01 | -2.21 |
| TRUE | 1/1 | 1/1 | 3.87 | 5.01 | -2.21 |
| TRUE | 1/1 | 1/1 | 3.87 | 5.01 | -2.21 |
| TRUE | 1/1 | 1/1 | 3.87 | 5.01 | -2.21 |
| TRUE | 1/1 | 1/1 | 3.83 | 5.11 | -2.43 |
| TRUE | 1/1 | 1/1 | 3.83 | 5.11 | -2.43 |
| TRUE | 1/1 | 1/1 | 3.83 | 5.11 | -2.43 |
| TRUE | 1/1 | 1/1 | 3.83 | 5.11 | -2.43 |
| TRUE | 1/1 | 1/1 | 3.83 | 5.11 | -2.43 |
| TRUE | 1/1 | 1/1 | 3.83 | 5.11 | -2.43 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.81 | -1.35 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.81 | -1.35 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.81 | -1.35 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.09 | -1.73 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.84 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.84 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.84 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.84 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.84 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 7.17 | 8.29 | -2.17 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.6 | -2.06 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 9.69 | 6.36 | 10.03 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.48 | 11.26 | -1.72 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 11.16 | -2.06 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.58 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.58 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.58 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.58 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.58 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.58 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.11 | 8.51 | 1.51 |
| TRUE | 1/1 | 1/1 | 9.11 | 8.51 | 1.51 |
| TRUE | 1/1 | 1/1 | 9.11 | 8.51 | 1.51 |
| TRUE | 1/1 | 1/1 | 9.11 | 8.51 | 1.51 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.08 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.08 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.3 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.03 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.03 | 1.11 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.19 | 6.03 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.03 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.03 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.03 | 1.11 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 9.01 | 6.21 | 6.99 |
| TRUE | 1/1 | 1/1 | 3.34 | 3.57 | -1.17 |
| TRUE | 1/1 | 1/1 | 3.34 | 3.57 | -1.17 |
| TRUE | 1/1 | 1/1 | 3.34 | 3.57 | -1.17 |
| TRUE | 1/1 | 1/1 | 3.34 | 3.57 | -1.17 |
| TRUE | 1/1 | 1/1 | 9.31 | 9.17 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.31 | 9.17 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.31 | 9.17 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.31 | 9.17 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.31 | 9.17 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.31 | 9.17 | 1.1 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.71 | -2.29 |
| TRUE | 1/1 | 1/1 | 7.52 | 7.53 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.52 | 7.53 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.52 | 7.53 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.52 | 7.53 | -1.01 |
| TRUE | 1/1 | 1/1 | 10.53 | 11.41 | -1.83 |
| TRUE | 1/1 | 1/1 | 10.53 | 11.41 | -1.83 |
| TRUE | 1/1 | 1/1 | 10.53 | 11.41 | -1.83 |
| TRUE | 1/1 | 1/1 | 10.53 | 11.41 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.28 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.28 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.28 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.05 | 6.93 | 1.09 |
| TRUE | 1/1 | 1/1 | 7.05 | 6.93 | 1.09 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.91 | -2.51 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.91 | -2.51 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.91 | -2.51 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 9.78 | 11.25 | -2.75 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 8.72 | 10.04 | -2.49 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.62 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.62 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.62 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.62 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.62 | -1.58 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.62 | -1.58 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 4.04 | 4.53 | -1.41 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.52 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.52 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.52 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.85 | 10.1 | -2.37 |
| TRUE | 1/1 | 1/1 | 8.85 | 10.1 | -2.37 |
| TRUE | 1/1 | 1/1 | 8.85 | 10.1 | -2.37 |
| TRUE | 1/1 | 1/1 | 8.85 | 10.1 | -2.37 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.81 | -2.04 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.81 | -2.04 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.81 | -2.04 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.81 | -2.04 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.81 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.05 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.05 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.05 | -1.09 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.77 | -1.35 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.77 | -1.35 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.77 | -1.35 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.77 | -1.35 |
| TRUE | 1/1 | 1/1 | 10.34 | 10.77 | -1.35 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.49 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.49 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.09 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.09 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.09 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.18 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.18 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.18 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.18 | -1.88 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.68 | 6.19 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.68 | 6.19 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.91 | -1.8 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.6 | 6.01 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.41 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.43 | 5.05 | -1.54 |
| TRUE | 1/1 | 1/1 | 11.29 | 11.31 | -1.01 |
| TRUE | 1/1 | 1/1 | 11.29 | 11.31 | -1.01 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.67 | 1.78 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.32 | -1.81 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.31 | -1.01 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.31 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.88 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.88 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.88 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.88 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.88 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.88 | -1.47 |
| TRUE | 1/1 | 1/1 | 9.72 | 10.1 | -1.3 |
| TRUE | 1/1 | 1/1 | 9.72 | 10.1 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.53 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.53 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.53 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.53 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.53 | -1.36 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.67 | 5.42 | 1.19 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.42 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.78 | 9.15 | -1.3 |
| TRUE | 1/1 | 1/1 | 8.78 | 9.15 | -1.3 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.81 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.82 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.82 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.82 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.82 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.88 | 9.05 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.5 | 8.49 | -1.99 |
| TRUE | 1/1 | 1/1 | 7.5 | 8.49 | -1.99 |
| TRUE | 1/1 | 1/1 | 7.5 | 8.49 | -1.99 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.19 | 10.61 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.3 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.3 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.3 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.3 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.44 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.44 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.44 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.44 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.94 | -2.31 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 3.83 | 3.75 | 1.05 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.24 | 5.08 | 4.47 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.08 | 4.47 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.08 | 4.47 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.93 | 1.89 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.93 | 1.89 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.93 | 1.89 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.93 | 1.89 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.93 | 1.89 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.93 | 1.89 |
| TRUE | 1/1 | 1/1 | 7.49 | 7.62 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.49 | 7.62 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.49 | 7.62 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.49 | 7.62 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.49 | 7.62 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.47 | -2.23 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.61 | -1.94 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.61 | -1.94 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.61 | -1.94 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.61 | -1.94 |
| TRUE | 1/1 | 1/1 | 9.76 | 10.85 | -2.13 |
| TRUE | 1/1 | 1/1 | 9.76 | 10.85 | -2.13 |
| TRUE | 1/1 | 1/1 | 9.76 | 10.85 | -2.13 |
| TRUE | 1/1 | 1/1 | 9.76 | 10.85 | -2.13 |
| TRUE | 1/1 | 1/1 | 9.76 | 10.85 | -2.13 |
| TRUE | 1/1 | 1/1 | 9.76 | 10.85 | -2.13 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.63 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.63 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.63 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.63 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.63 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.63 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.23 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.23 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.23 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.23 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.23 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.68 | 9.23 | -1.47 |
| TRUE | 1/1 | 1/1 | 9.92 | 10.99 | -2.1 |
| TRUE | 1/1 | 1/1 | 9.92 | 10.99 | -2.1 |
| TRUE | 1/1 | 1/1 | 9.92 | 10.99 | -2.1 |
| TRUE | 1/1 | 1/1 | 9.92 | 10.99 | -2.1 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.26 | -1.96 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.26 | -1.96 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.26 | -1.96 |
| TRUE | 1/1 | 1/1 | 5.28 | 6.26 | -1.96 |
| TRUE | 1/1 | 1/1 | 8 | 8.18 | -1.13 |
| TRUE | 1/1 | 1/1 | 8 | 8.18 | -1.13 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8 | 8.18 | -1.13 |
| TRUE | 1/1 | 1/1 | 8 | 8.18 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.19 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.92 | 11.78 | -1.81 |
| TRUE | 1/1 | 1/1 | 10.92 | 11.78 | -1.81 |
| TRUE | 1/1 | 1/1 | 10.92 | 11.78 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.33 | 3.85 | -1.43 |
| TRUE | 1/1 | 1/1 | 3.33 | 3.85 | -1.43 |
| TRUE | 1/1 | 1/1 | 3.33 | 3.85 | -1.43 |
| TRUE | 1/1 | 1/1 | 3.33 | 3.85 | -1.43 |
| TRUE | 1/1 | 1/1 | 3.33 | 3.85 | -1.43 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.98 | -1.86 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.98 | -1.86 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.98 | -1.86 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.98 | -1.86 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.98 | -1.86 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 4.94 | 6.28 | -2.54 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.32 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.32 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.32 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.32 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.32 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.27 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.27 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.27 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.27 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.27 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.31 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.31 | -1.28 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.54 | 1.39 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.54 | 1.39 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.54 | 1.39 |
| TRUE | 1/1 | 1/1 | 7.46 | 7.47 | -1 |
| TRUE | 1/1 | 1/1 | 7.46 | 7.47 | -1 |
| TRUE | 1/1 | 1/1 | 7.78 | 4.51 | 9.64 |
| TRUE | 1/1 | 1/1 | 7.78 | 4.51 | 9.64 |
| TRUE | 1/1 | 1/1 | 7.78 | 4.51 | 9.64 |
| TRUE | 1/1 | 1/1 | 7.78 | 4.51 | 9.64 |
| TRUE | 1/1 | 1/1 | 7.78 | 4.51 | 9.64 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.26 | 7.2 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.26 | 7.2 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.26 | 7.2 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.26 | 7.2 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.26 | 7.2 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.26 | 7.2 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 7.41 | -2.38 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.45 | 4.79 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.04 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.04 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.04 | -1.32 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.89 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.89 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.5 | -1.71 |
| TRUE | 1/1 | 1/1 | 9.32 | 9.49 | -1.12 |
| TRUE | 1/1 | 1/1 | 9.32 | 9.49 | -1.12 |
| TRUE | 1/1 | 1/1 | 9.32 | 9.49 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.63 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.18 | 6.04 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.18 | 6.04 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.18 | 6.04 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.89 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.89 | 1.53 |
| TRUE | 1/1 | 1/1 | 7.88 | 9.24 | -2.57 |
| TRUE | 1/1 | 1/1 | 7.88 | 9.24 | -2.57 |
| TRUE | 1/1 | 1/1 | 7.88 | 9.24 | -2.57 |
| TRUE | 1/1 | 1/1 | 7.88 | 9.24 | -2.57 |
| TRUE | 1/1 | 1/1 | 7.88 | 9.24 | -2.57 |
| TRUE | 1/1 | 1/1 | 9.78 | 3.21 | 94.63 |
| TRUE | 1/1 | 1/1 | 9.78 | 3.21 | 94.63 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.08 | 4.78 | 1.24 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 3.32 | 4.32 | -2.01 |
| TRUE | 1/1 | 1/1 | 5.24 | 5.04 | 1.14 |
| TRUE | 1/1 | 1/1 | 5.24 | 5.04 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.26 | 6.5 | 1.7 |
| TRUE | 1/1 | 1/1 | 4.49 | 4.27 | 1.17 |
| TRUE | 1/1 | 1/1 | 4.49 | 4.27 | 1.17 |
| TRUE | 1/1 | 1/1 | 4.49 | 4.27 | 1.17 |
| TRUE | 1/1 | 1/1 | 4.49 | 4.27 | 1.17 |
| TRUE | 1/1 | 1/1 | 4.49 | 4.27 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.03 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.03 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.67 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.67 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.67 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.26 | 1.18 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.26 | 1.18 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.26 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.7 | 10.69 | -1.98 |
| TRUE | 1/1 | 1/1 | 9.7 | 10.69 | -1.98 |
| TRUE | 1/1 | 1/1 | 9.7 | 10.69 | -1.98 |
| TRUE | 1/1 | 1/1 | 9.7 | 10.69 | -1.98 |
| TRUE | 1/1 | 1/1 | 9.7 | 10.69 | -1.98 |
| TRUE | 1/1 | 1/1 | 9.7 | 10.69 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.21 | -1.39 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.21 | -1.39 |
| TRUE | 1/1 | 1/1 | 5.73 | 6.21 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.99 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.99 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.99 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.99 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.99 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.33 | 1.05 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.33 | 1.05 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.33 | 1.05 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.77 | 7.34 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.34 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.34 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.46 | 6.48 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.46 | 6.48 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.46 | 6.48 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.46 | 6.48 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.46 | 6.48 | -1.01 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 3.27 | 4.12 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 6.03 | 5.14 | 1.85 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 4.58 | 5.25 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.88 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.88 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.7 | -1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.7 | -1 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.7 | -1 |
| TRUE | 1/1 | 1/1 | 8.29 | 8.78 | -1.41 |
| TRUE | 1/1 | 1/1 | 8.29 | 8.78 | -1.41 |
| TRUE | 1/1 | 1/1 | 8.29 | 8.78 | -1.41 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.66 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.66 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.66 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.84 | -1.93 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.84 | -1.93 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.84 | -1.93 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.27 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.27 | -1.74 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.97 | -1.47 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 4.37 | 4.66 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.47 | 6.63 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.47 | 6.63 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.47 | 6.63 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.46 | -2.07 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.26 | 8.67 | -1.33 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.12 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.12 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.12 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.12 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.12 | -1.31 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 10.18 | 5.19 | 31.79 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.59 | -1.56 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.59 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.83 | -1.94 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.83 | -1.94 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.66 | 5.01 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.66 | 5.01 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.66 | 5.01 | -1.27 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 4.66 | 5.01 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.25 | -1.97 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.25 | -1.97 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.25 | -1.97 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.25 | -1.97 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.25 | -1.97 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.25 | -1.97 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.86 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.86 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.86 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.86 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.31 | 6.3 | -1.98 |
| TRUE | 1/1 | 1/1 | 4.26 | 3.14 | 2.17 |
| TRUE | 1/1 | 1/1 | 4.26 | 3.14 | 2.17 |
| TRUE | 1/1 | 1/1 | 4.26 | 3.14 | 2.17 |
| TRUE | 1/1 | 1/1 | 4.26 | 3.14 | 2.17 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.35 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.35 | -1.17 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 4.34 | 3.03 | 2.47 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.46 | 6.17 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.89 | -1.48 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.89 | -1.48 |
| TRUE | 1/1 | 1/1 | 11.83 | 10.7 | 2.2 |
| TRUE | 1/1 | 1/1 | 11.83 | 10.7 | 2.2 |
| TRUE | 1/1 | 1/1 | 11.83 | 10.7 | 2.2 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.08 | 6.7 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.7 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.7 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.7 | -1.54 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.95 | 9.69 | -1.67 |
| TRUE | 1/1 | 1/1 | 7.31 | 7.97 | -1.57 |
| TRUE | 1/1 | 1/1 | 7.31 | 7.97 | -1.57 |
| TRUE | 1/1 | 1/1 | 7.31 | 7.97 | -1.57 |
| TRUE | 1/1 | 1/1 | 7.31 | 7.97 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.78 | 9 | -1.16 |
| TRUE | 1/1 | 1/1 | 8.78 | 9 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.07 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.6 | 7.07 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.1 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.1 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.1 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.2 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.2 | -1.81 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.2 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.34 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.87 | 7.8 | -1.91 |
| TRUE | 1/1 | 1/1 | 8.38 | 9.12 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.38 | 9.12 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.38 | 9.12 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.38 | 9.12 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.38 | 9.12 | -1.67 |
| TRUE | 1/1 | 1/1 | 12.53 | 12.42 | 1.07 |
| TRUE | 1/1 | 1/1 | 12.53 | 12.42 | 1.07 |
| TRUE | 1/1 | 1/1 | 12.53 | 12.42 | 1.07 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.78 | 5.73 | 4.13 |
| TRUE | 1/1 | 1/1 | 7.78 | 5.73 | 4.13 |
| TRUE | 1/1 | 1/1 | 7.78 | 5.73 | 4.13 |
| TRUE | 1/1 | 1/1 | 7.78 | 5.73 | 4.13 |
| TRUE | 1/1 | 1/1 | 11.2 | 11.36 | -1.12 |
| TRUE | 1/1 | 1/1 | 11.2 | 11.36 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.19 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.82 | 9.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.74 | 9.48 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.74 | 9.48 | -1.67 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.79 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.79 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.79 | 1.12 |
| TRUE | 1/1 | 1/1 | 3.29 | 3.1 | 1.14 |
| TRUE | 1/1 | 1/1 | 3.29 | 3.1 | 1.14 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 6 | 5.79 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.58 | -2.49 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.58 | -2.49 |
| TRUE | 1/1 | 1/1 | 7.27 | 8.58 | -2.49 |
| TRUE | 1/1 | 1/1 | 6 | 7.33 | -2.51 |
| TRUE | 1/1 | 1/1 | 6 | 7.33 | -2.51 |
| TRUE | 1/1 | 1/1 | 6 | 7.33 | -2.51 |
| TRUE | 1/1 | 1/1 | 6 | 7.33 | -2.51 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.25 | 1.78 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.25 | 1.78 |
| TRUE | 1/1 | 1/1 | 8.09 | 7.25 | 1.78 |
| TRUE | 1/1 | 1/1 | 10.19 | 11.21 | -2.03 |
| TRUE | 1/1 | 1/1 | 10.19 | 11.21 | -2.03 |
| TRUE | 1/1 | 1/1 | 10.19 | 11.21 | -2.03 |
| TRUE | 1/1 | 1/1 | 10.19 | 11.21 | -2.03 |
| TRUE | 1/1 | 1/1 | 10.19 | 11.21 | -2.03 |
| TRUE | 1/1 | 1/1 | 7.73 | 7.41 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.73 | 7.41 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.73 | 7.41 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.62 | 5.76 | 1.82 |
| TRUE | 1/1 | 1/1 | 6.62 | 5.76 | 1.82 |
| TRUE | 1/1 | 1/1 | 6.62 | 5.76 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.76 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.76 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.76 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.76 | -1.45 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.22 | 5.76 | -1.45 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 8.7 | 9.93 | -2.36 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.07 | 5.98 | 2.12 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.91 | -1.42 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.91 | -1.42 |
| TRUE | 1/1 | 1/1 | 4.4 | 4.91 | -1.42 |
| TRUE | 1/1 | 1/1 | 4.81 | 4.96 | -1.1 |
| TRUE | 1/1 | 1/1 | 4.81 | 4.96 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.59 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.59 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.59 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.59 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.66 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.66 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.66 | 1.34 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.53 | -2.2 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.75 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.75 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.75 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.75 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 6.97 | 8.32 | -2.55 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.59 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.59 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.59 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.4 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.4 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.4 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.4 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.4 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.09 | 5.26 | -2.25 |
| TRUE | 1/1 | 1/1 | 4.09 | 5.26 | -2.25 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.29 | 7.22 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.29 | 7.22 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.29 | 7.22 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.29 | 7.22 | -1.91 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.63 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.63 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.63 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.63 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.63 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.63 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.79 | 8.46 | 1.25 |
| TRUE | 1/1 | 1/1 | 8.79 | 8.46 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.77 | 7.88 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.77 | 7.88 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.77 | 7.88 | -1.08 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.5 | -1.3 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.5 | -1.3 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.5 | -1.3 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 9.84 | 10.66 | -1.76 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.74 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.74 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.74 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.74 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.93 | 5.81 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.14 | 6.06 | -1.88 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.44 | 5.03 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.18 | -1 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.18 | -1 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.18 | -1 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.18 | -1 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.18 | -1 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.95 | -1.81 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.95 | -1.81 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.95 | -1.81 |
| TRUE | 1/1 | 1/1 | 6.85 | 7.86 | -2.02 |
| TRUE | 1/1 | 1/1 | 6.85 | 7.86 | -2.02 |
| TRUE | 1/1 | 1/1 | 6.85 | 7.86 | -2.02 |
| TRUE | 1/1 | 1/1 | 6.85 | 7.86 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.72 | -1.78 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.72 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.43 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.43 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.35 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.35 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.35 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.35 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.35 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.35 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.63 | 5.46 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.63 | 5.46 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.63 | 5.46 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.63 | 5.46 | -1.77 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.38 | -2.12 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.38 | -2.12 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.38 | -2.12 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.38 | -2.12 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.38 | -2.12 |
| TRUE | 1/1 | 1/1 | 5.29 | 6.38 | -2.12 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.48 | 10.2 | -1.65 |
| TRUE | 1/1 | 1/1 | 3.29 | 4.19 | -1.88 |
| TRUE | 1/1 | 1/1 | 3.29 | 4.19 | -1.88 |
| TRUE | 1/1 | 1/1 | 3.29 | 4.19 | -1.88 |
| TRUE | 1/1 | 1/1 | 3.29 | 4.19 | -1.88 |
| TRUE | 1/1 | 1/1 | 3.29 | 4.19 | -1.88 |
| TRUE | 1/1 | 1/1 | 3.29 | 4.19 | -1.88 |
| TRUE | 1/1 | 1/1 | 4.22 | 3.69 | 1.44 |
| TRUE | 1/1 | 1/1 | 4.22 | 3.69 | 1.44 |
| TRUE | 1/1 | 1/1 | 4.22 | 3.69 | 1.44 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.15 | 1.99 |
| TRUE | 1/1 | 1/1 | 7.61 | 7 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.61 | 7 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.61 | 7 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.61 | 7 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.61 | 7 | 1.52 |
| TRUE | 1/1 | 1/1 | 5.51 | 6.38 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.51 | 6.38 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.51 | 6.38 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.51 | 6.38 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.51 | 6.38 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.51 | 6.38 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 7.34 | 5.36 | 3.96 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.33 | -1.06 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.33 | -1.06 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.33 | -1.06 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.63 | 1.23 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.47 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.47 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.47 | 1.15 |
| TRUE | 1/1 | 1/1 | 3.36 | 4.22 | -1.82 |
| TRUE | 1/1 | 1/1 | 3.36 | 4.22 | -1.82 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.09 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.93 | 7.35 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.93 | 7.35 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.93 | 7.35 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.66 | 7 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.66 | 7 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.01 | 1.03 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.01 | 1.03 |
| TRUE | 1/1 | 1/1 | 11.16 | 11.24 | -1.06 |
| TRUE | 1/1 | 1/1 | 11.16 | 11.24 | -1.06 |
| TRUE | 1/1 | 1/1 | 11.16 | 11.24 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.73 | -1.28 |
| TRUE | 1/1 | 1/1 | 9.16 | 9.25 | -1.06 |
| TRUE | 1/1 | 1/1 | 9.16 | 9.25 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.51 | -1.47 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.26 | -2.66 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.54 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.54 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.15 | 9.11 | -1.95 |
| TRUE | 1/1 | 1/1 | 8.15 | 9.11 | -1.95 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.28 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.28 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.28 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.02 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.02 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.02 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.02 | -1.18 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.59 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.1 | 4.83 | -1.66 |
| TRUE | 1/1 | 1/1 | 4.1 | 4.83 | -1.66 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.57 | -1.91 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.57 | -1.91 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.57 | -1.91 |
| TRUE | 1/1 | 1/1 | 5.64 | 6.57 | -1.91 |
| TRUE | 1/1 | 1/1 | 10.59 | 9.36 | 2.35 |
| TRUE | 1/1 | 1/1 | 10.59 | 9.36 | 2.35 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.9 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.9 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.39 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.39 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.39 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.39 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.32 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.32 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.32 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.32 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.48 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.48 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.48 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.48 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.48 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.48 | -1.36 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.18 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.18 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.18 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.18 | 1.3 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.14 | 1.53 |
| TRUE | 1/1 | 1/1 | 3.97 | 4.63 | -1.58 |
| TRUE | 1/1 | 1/1 | 3.97 | 4.63 | -1.58 |
| TRUE | 1/1 | 1/1 | 3.97 | 4.63 | -1.58 |
| TRUE | 1/1 | 1/1 | 3.97 | 4.63 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.23 | 5.79 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.23 | 5.79 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.32 | 7.15 | 2.25 |
| TRUE | 1/1 | 1/1 | 8.32 | 7.15 | 2.25 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.97 | 5.98 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.98 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.98 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.98 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.98 | -2.02 |
| TRUE | 1/1 | 1/1 | 8 | 7.16 | 1.79 |
| TRUE | 1/1 | 1/1 | 8 | 7.16 | 1.79 |
| TRUE | 1/1 | 1/1 | 8 | 7.16 | 1.79 |
| TRUE | 1/1 | 1/1 | 8 | 7.16 | 1.79 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.33 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.33 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.61 | -1.77 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.61 | -1.77 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.61 | -1.77 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.61 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.57 | -1.74 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.57 | -1.74 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.57 | -1.74 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.5 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.86 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.86 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.58 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.58 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.58 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 4.88 | 6.13 | -2.38 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.45 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.45 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.19 | 7.37 | -2.25 |
| TRUE | 1/1 | 1/1 | 6.19 | 7.37 | -2.25 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.31 | 5.28 | -1.96 |
| TRUE | 1/1 | 1/1 | 4.91 | 4.84 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.91 | 4.84 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.91 | 4.84 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.36 | 4.54 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.15 | -1.4 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.15 | -1.4 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.15 | -1.4 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.41 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.41 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.41 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.41 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.42 | 9.45 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.42 | 9.45 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.42 | 9.45 | -2.05 |
| TRUE | 1/1 | 1/1 | 8.42 | 9.45 | -2.05 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.88 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.69 | 7.12 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.69 | 7.12 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.69 | 7.12 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.69 | 7.12 | -1.35 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.48 | -1.24 |
| TRUE | 1/1 | 1/1 | 5.71 | 6.18 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.71 | 6.18 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.71 | 6.18 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.71 | 6.18 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.71 | 6.18 | -1.38 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.85 | 9.48 | -3.09 |
| TRUE | 1/1 | 1/1 | 7.85 | 9.48 | -3.09 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.65 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.65 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.65 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.65 | 1.73 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.65 | 1.73 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.77 | -1.26 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.77 | -1.26 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.77 | -1.26 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.77 | -1.26 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.77 | -1.26 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.77 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.48 | 8.21 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.48 | 8.21 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.48 | 8.21 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.48 | 8.21 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.48 | 8.21 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.48 | 8.21 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.78 | 5.01 | 3.4 |
| TRUE | 1/1 | 1/1 | 6.78 | 5.01 | 3.4 |
| TRUE | 1/1 | 1/1 | 6.78 | 5.01 | 3.4 |
| TRUE | 1/1 | 1/1 | 6.78 | 5.01 | 3.4 |
| TRUE | 1/1 | 1/1 | 6.78 | 5.01 | 3.4 |
| TRUE | 1/1 | 1/1 | 6.78 | 5.01 | 3.4 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.33 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.33 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.33 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.33 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.2 | 7.33 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.71 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.71 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.71 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.71 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.92 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.92 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.92 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.92 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.93 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.93 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.93 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.93 | -1.29 |
| TRUE | 1/1 | 1/1 | 3.93 | 4.87 | -1.92 |
| TRUE | 1/1 | 1/1 | 3.93 | 4.87 | -1.92 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.43 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.43 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.43 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.43 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.43 | -1.98 |
| TRUE | 1/1 | 1/1 | 5.45 | 6.43 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.7 | -1.85 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.7 | -1.85 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.7 | -1.85 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.7 | -1.85 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.7 | -1.85 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.78 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.78 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.78 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.78 | -1.55 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.8 | -2.57 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.8 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.8 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.8 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.8 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.8 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.8 | -1.43 |
| TRUE | 1/1 | 1/1 | 4 | 3.56 | 1.36 |
| TRUE | 1/1 | 1/1 | 4 | 3.56 | 1.36 |
| TRUE | 1/1 | 1/1 | 4 | 3.56 | 1.36 |
| TRUE | 1/1 | 1/1 | 4 | 3.56 | 1.36 |
| TRUE | 1/1 | 1/1 | 4 | 3.56 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.68 | 6.18 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.68 | 6.18 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.68 | 6.18 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.94 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.95 | 9.42 | -2.78 |
| TRUE | 1/1 | 1/1 | 7.95 | 9.42 | -2.78 |
| TRUE | 1/1 | 1/1 | 7.95 | 9.42 | -2.78 |
| TRUE | 1/1 | 1/1 | 7.95 | 9.42 | -2.78 |
| TRUE | 1/1 | 1/1 | 7.95 | 9.42 | -2.78 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.2 | -1.76 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.2 | -1.76 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.2 | -1.76 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.85 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.85 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.82 | 7.85 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.08 | 4.6 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.08 | 4.6 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.08 | 4.6 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.9 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.86 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.86 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.86 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.86 | -2.2 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.72 | 8.86 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.86 | -2.2 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.58 | 4.06 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.78 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.78 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.78 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.78 | -1.38 |
| TRUE | 1/1 | 1/1 | 4.74 | 5.19 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.74 | 5.19 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.74 | 5.19 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.44 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.44 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.44 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.12 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.12 | -1.02 |
| TRUE | 1/1 | 1/1 | 9.92 | 9.14 | 1.71 |
| TRUE | 1/1 | 1/1 | 9.92 | 9.14 | 1.71 |
| TRUE | 1/1 | 1/1 | 9.92 | 9.14 | 1.71 |
| TRUE | 1/1 | 1/1 | 9.92 | 9.14 | 1.71 |
| TRUE | 1/1 | 1/1 | 4.34 | 4.17 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.34 | 4.17 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.34 | 4.17 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.41 | -1.3 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.41 | -1.3 |
| TRUE | 1/1 | 1/1 | 9.6 | 9.37 | 1.17 |
| TRUE | 1/1 | 1/1 | 9.6 | 9.37 | 1.17 |
| TRUE | 1/1 | 1/1 | 9.6 | 9.37 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.5 | -1.01 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.5 | -1.01 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.5 | -1.01 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.5 | -1.01 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.5 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.89 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.89 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.89 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.89 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.89 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.05 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.05 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.05 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.05 | -1.42 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.78 | 5.05 | -1.2 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.05 | -1.2 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.05 | -1.2 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.05 | -1.2 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.05 | -1.2 |
| TRUE | 1/1 | 1/1 | 4.78 | 5.05 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.37 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.37 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.37 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.37 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.37 | -1.03 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.76 | 1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.76 | 1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.76 | 1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.76 | 1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 5.76 | 1.11 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.82 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.82 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.82 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.44 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.44 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.44 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.44 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.44 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.98 | 7.44 | -1.38 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.89 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.62 | -2.08 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.62 | -2.08 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.62 | -2.08 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.62 | -2.08 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.62 | -2.08 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.46 | -1.67 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.46 | -1.67 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.46 | -1.67 |
| TRUE | 1/1 | 1/1 | 5.35 | 6.07 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.35 | 6.07 | -1.65 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.34 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.76 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.76 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.76 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.76 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.76 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.76 | -1.74 |
| TRUE | 1/1 | 1/1 | 7.18 | 6.91 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.18 | 6.91 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.18 | 6.91 | 1.2 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.87 | -1.45 |
| TRUE | 1/1 | 1/1 | 9.33 | 9.87 | -1.45 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.9 | 5.89 | 4.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 5.89 | 4.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 5.89 | 4.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 5.89 | 4.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 5.89 | 4.03 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.11 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.11 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.11 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.11 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.13 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.13 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.74 | 9.45 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.74 | 9.45 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.83 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.83 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.83 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.83 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.83 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.83 | -1.37 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.73 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.73 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.73 | -1.41 |
| TRUE | 1/1 | 1/1 | 6.35 | 7.4 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.35 | 7.4 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.35 | 7.4 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.35 | 7.4 | -2.07 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.85 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.85 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.85 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.85 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.05 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.05 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 6.22 | 5.58 | 1.56 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 8.34 | 9.41 | -2.1 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.36 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.36 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.36 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.14 | 6.36 | -1.17 |
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.77 | 11.06 | -1.22 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.14 | 6.82 | 1.24 |
| TRUE | 1/1 | 1/1 | 7.14 | 6.82 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.55 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.55 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.55 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.63 | 3.84 | 3.46 |
| TRUE | 1/1 | 1/1 | 5.17 | 5.58 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.17 | 5.58 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.17 | 5.58 | -1.33 |
| TRUE | 1/1 | 1/1 | 5.17 | 5.58 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.77 | -1.77 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.79 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.79 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.79 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.79 | -1.33 |
| TRUE | 1/1 | 1/1 | 8.38 | 8.79 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.44 | 5.61 | -2.25 |
| TRUE | 1/1 | 1/1 | 4.44 | 5.61 | -2.25 |
| TRUE | 1/1 | 1/1 | 4.44 | 5.61 | -2.25 |
| TRUE | 1/1 | 1/1 | 4.44 | 5.61 | -2.25 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.07 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.07 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.07 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.12 | 1.31 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.12 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.49 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.49 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.49 | 1.1 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.62 | 5.49 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.95 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.24 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.24 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.24 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.88 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.88 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.88 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.88 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.4 | 5.13 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.4 | 5.13 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.82 | 6.27 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 7.89 | 9.11 | -2.33 |
| TRUE | 1/1 | 1/1 | 8.87 | 9.53 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.87 | 9.53 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.87 | 9.53 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.67 | 1.24 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.67 | 1.24 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.67 | 1.24 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.67 | 1.24 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.67 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.15 | -1.17 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.93 | 6.15 | -1.17 |
| TRUE | 1/1 | 1/1 | 10.33 | 10.18 | 1.11 |
| TRUE | 1/1 | 1/1 | 10.33 | 10.18 | 1.11 |
| TRUE | 1/1 | 1/1 | 10.33 | 10.18 | 1.11 |
| TRUE | 1/1 | 1/1 | 10.33 | 10.18 | 1.11 |
| TRUE | 1/1 | 1/1 | 10.33 | 10.18 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.8 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.8 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.8 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.8 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.8 | 1.2 |
| TRUE | 1/1 | 1/1 | 9.57 | 9.17 | 1.32 |
| TRUE | 1/1 | 1/1 | 9.57 | 9.17 | 1.32 |
| TRUE | 1/1 | 1/1 | 9.57 | 9.17 | 1.32 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.84 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.84 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.84 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.69 | 6.24 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.69 | 6.24 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.69 | 6.24 | -1.46 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.08 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.08 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.08 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.08 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.08 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.08 | -1.45 |
| TRUE | 1/1 | 1/1 | 8.5 | 9.04 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.5 | 9.04 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.5 | 9.04 | -1.46 |
| TRUE | 1/1 | 1/1 | 8.5 | 9.04 | -1.46 |
| TRUE | 1/1 | 1/1 | 6.57 | 6.99 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.57 | 6.99 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.57 | 6.99 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.57 | 6.99 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.39 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.39 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.39 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.39 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.5 | -2 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.22 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.86 | 6.03 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.86 | 6.03 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.86 | 6.03 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.86 | 6.03 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.52 | 7.06 | 1.38 |
| TRUE | 1/1 | 1/1 | 7.52 | 7.06 | 1.38 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.52 | 7.06 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.61 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.61 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.03 | -1.89 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.82 | 1.25 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.82 | 1.25 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.82 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.24 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.24 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.97 | 5.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.97 | 5.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.97 | 5.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.03 | 1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.03 | 1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.03 | 1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.03 | 1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.03 | 1.27 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 3.5 | 4.31 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.8 | -1.5 |
| TRUE | 1/1 | 1/1 | 10.1 | 10.99 | -1.85 |
| TRUE | 1/1 | 1/1 | 10.1 | 10.99 | -1.85 |
| TRUE | 1/1 | 1/1 | 10.1 | 10.99 | -1.85 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.03 | -1.38 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.03 | -1.38 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.8 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.8 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.8 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.8 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.16 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.16 | -1.02 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.47 | 3.1 | 5.16 |
| TRUE | 1/1 | 1/1 | 5.47 | 3.1 | 5.16 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.64 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 7.5 | 5.92 | 3 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.35 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.35 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.35 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.35 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.35 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.57 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.57 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.22 | 5.57 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.53 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.53 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.53 | -1.25 |
| TRUE | 1/1 | 1/1 | 3.3 | 3.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 3.3 | 3.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.3 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.3 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.3 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.65 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.65 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.8 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.8 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.8 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.8 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.8 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.74 | 7.8 | -2.08 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 7.16 | 8.46 | -2.46 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.52 | -2.48 |
| TRUE | 1/1 | 1/1 | 5.2 | 6.52 | -2.48 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 4.45 | 5.27 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 8.6 | 9.65 | -2.08 |
| TRUE | 1/1 | 1/1 | 8.6 | 9.65 | -2.08 |
| TRUE | 1/1 | 1/1 | 8.6 | 9.65 | -2.08 |
| TRUE | 1/1 | 1/1 | 8.6 | 9.65 | -2.08 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.71 | -1.76 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.71 | -1.76 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.71 | -1.76 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.71 | -1.76 |
| TRUE | 1/1 | 1/1 | 4.89 | 5.71 | -1.76 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.51 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.51 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.52 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.52 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.52 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.52 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.52 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 5.12 | 3.93 | 2.27 |
| TRUE | 1/1 | 1/1 | 8.01 | 9.49 | -2.8 |
| TRUE | 1/1 | 1/1 | 8.01 | 9.49 | -2.8 |
| TRUE | 1/1 | 1/1 | 5.72 | 6.6 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.72 | 6.6 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.35 | 5.19 | -1.79 |
| TRUE | 1/1 | 1/1 | 4.35 | 5.19 | -1.79 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.18 | -1.05 |
| TRUE | 1/1 | 1/1 | 7 | 7.97 | -1.95 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 12.04 | 12.45 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.74 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.74 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.74 | -1.34 |
| TRUE | 1/1 | 1/1 | 9.85 | 10.44 | -1.5 |
| TRUE | 1/1 | 1/1 | 9.85 | 10.44 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.91 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.91 | -1.52 |
| TRUE | 1/1 | 1/1 | 4.63 | 4.49 | 1.1 |
| TRUE | 1/1 | 1/1 | 4.63 | 4.49 | 1.1 |
| TRUE | 1/1 | 1/1 | 4.63 | 4.49 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.67 | 7.52 | -1.8 |
| TRUE | 1/1 | 1/1 | 4.35 | 4.69 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.35 | 4.69 | -1.27 |
| TRUE | 1/1 | 1/1 | 4.35 | 4.69 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.25 | 9.02 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.04 | 9.66 | -3.07 |
| TRUE | 1/1 | 1/1 | 8.04 | 9.66 | -3.07 |
| TRUE | 1/1 | 1/1 | 8.04 | 9.66 | -3.07 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.17 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.17 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.17 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.17 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.17 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.17 | -1.05 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.92 | 1.13 |
| TRUE | 1/1 | 1/1 | 7.52 | 8.13 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.52 | 8.13 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.52 | 8.13 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.52 | 8.13 | -1.52 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.75 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.75 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.75 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.13 | 4.75 | -1.54 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.21 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.21 | 1.24 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.49 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.38 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.38 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.38 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.38 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.52 | -1.68 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.52 | -1.68 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.52 | -1.68 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.52 | -1.68 |
| TRUE | 1/1 | 1/1 | 7.65 | 8.19 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.65 | 8.19 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.65 | 8.19 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.65 | 8.19 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.65 | 8.19 | -1.45 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.05 | 1.56 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.05 | 1.56 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.05 | 1.56 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.05 | 1.56 |
| TRUE | 1/1 | 1/1 | 7.38 | 8 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.38 | 8 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.38 | 8 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.18 | 3.34 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.18 | 3.34 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.18 | 3.34 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.18 | 3.34 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.18 | 3.34 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.5 | -2.15 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.5 | -2.15 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.03 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.03 | -1.18 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.79 | 6.03 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.38 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.38 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.38 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.38 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.38 | -1.69 |
| TRUE | 1/1 | 1/1 | 8.16 | 8.1 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.16 | 8.1 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.16 | 8.1 | 1.04 |
| TRUE | 1/1 | 1/1 | 7 | 7.9 | -1.86 |
| TRUE | 1/1 | 1/1 | 7 | 7.9 | -1.86 |
| TRUE | 1/1 | 1/1 | 7 | 7.9 | -1.86 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.04 | 1 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.04 | 1 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.04 | 1 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.04 | 1 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.04 | 1 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.04 | 1 |
| TRUE | 1/1 | 1/1 | 6.5 | 7.59 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.5 | 7.59 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.5 | 7.59 | -2.13 |
| TRUE | 1/1 | 1/1 | 6.5 | 7.59 | -2.13 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.83 | -1.58 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.83 | -1.58 |
| TRUE | 1/1 | 1/1 | 9.17 | 9.83 | -1.58 |
| TRUE | 1/1 | 1/1 | 11.37 | 10.45 | 1.89 |
| TRUE | 1/1 | 1/1 | 11.37 | 10.45 | 1.89 |
| TRUE | 1/1 | 1/1 | 11.37 | 10.45 | 1.89 |
| TRUE | 1/1 | 1/1 | 11.37 | 10.45 | 1.89 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.1 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.34 | 6.11 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.34 | 6.11 | 1.17 |
| TRUE | 1/1 | 1/1 | 3.98 | 4.83 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.98 | 4.83 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.98 | 4.83 | -1.81 |
| TRUE | 1/1 | 1/1 | 3.98 | 4.83 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.94 | -1.8 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.94 | -1.8 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.94 | -1.8 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.27 | 7.25 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.25 | -1.98 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.25 | -1.98 |
| TRUE | 1/1 | 1/1 | 10.58 | 11.06 | -1.4 |
| TRUE | 1/1 | 1/1 | 10.58 | 11.06 | -1.4 |
| TRUE | 1/1 | 1/1 | 10.58 | 11.06 | -1.4 |
| TRUE | 1/1 | 1/1 | 10.58 | 11.06 | -1.4 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.44 | -1.21 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 11.25 | 12.64 | -2.64 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.71 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.71 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.71 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.71 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.71 | -1.22 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.32 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.32 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.32 | 1.38 |
| TRUE | 1/1 | 1/1 | 4.27 | 5.18 | -1.88 |
| TRUE | 1/1 | 1/1 | 4.27 | 5.18 | -1.88 |
| TRUE | 1/1 | 1/1 | 4.27 | 5.18 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.34 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.34 | 1.17 |
| TRUE | 1/1 | 1/1 | 9.4 | 9.74 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.4 | 9.74 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.4 | 9.74 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.4 | 9.74 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.4 | 9.74 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.46 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.46 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.46 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.46 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.46 | -2.04 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.19 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.19 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.19 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.61 | 9.59 | -1.97 |
| TRUE | 1/1 | 1/1 | 8.61 | 9.59 | -1.97 |
| TRUE | 1/1 | 1/1 | 8.61 | 9.59 | -1.97 |
| TRUE | 1/1 | 1/1 | 8.61 | 9.59 | -1.97 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.48 | -1.34 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.48 | -1.34 |
| TRUE | 1/1 | 1/1 | 10.06 | 10.48 | -1.34 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.16 | 5.26 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.26 | -1.07 |
| TRUE | 1/1 | 1/1 | 11.15 | 11.31 | -1.12 |
| TRUE | 1/1 | 1/1 | 11.15 | 11.31 | -1.12 |
| TRUE | 1/1 | 1/1 | 11.15 | 11.31 | -1.12 |
| TRUE | 1/1 | 1/1 | 11.15 | 11.31 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.49 | 3.8 | 3.24 |
| TRUE | 1/1 | 1/1 | 5.49 | 3.8 | 3.24 |
| TRUE | 1/1 | 1/1 | 5.49 | 3.8 | 3.24 |
| TRUE | 1/1 | 1/1 | 5.49 | 3.8 | 3.24 |
| TRUE | 1/1 | 1/1 | 5.49 | 3.8 | 3.24 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.71 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.71 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.71 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.71 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.71 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.79 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.91 | 5.69 | 1.16 |
| TRUE | 1/1 | 1/1 | 5.91 | 5.69 | 1.16 |
| TRUE | 1/1 | 1/1 | 5.91 | 5.69 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.33 | 8.32 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.33 | 8.32 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.33 | 8.32 | -1.98 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.51 | -1.74 |
| TRUE | 1/1 | 1/1 | 6.49 | 6.79 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.49 | 6.79 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.49 | 6.79 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.49 | 1.34 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.49 | 1.34 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.53 | 9.26 | -1.65 |
| TRUE | 1/1 | 1/1 | 7.95 | 6.02 | 3.81 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 8.68 | 6.4 | 4.85 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.89 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.61 | -1.64 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 10.69 | 8.78 | 3.76 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.38 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.38 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.38 | -1.98 |
| TRUE | 1/1 | 1/1 | 7.39 | 8.38 | -1.98 |
| TRUE | 1/1 | 1/1 | 8.54 | 8.74 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.54 | 8.74 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.54 | 8.74 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.2 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.2 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.54 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.54 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.27 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.27 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.27 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.85 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.29 | 8.32 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.29 | 8.32 | -2.05 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.29 | 8.32 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.01 | -1.48 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.01 | -1.48 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.01 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.87 | -2.31 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.31 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.31 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.75 | 6.85 | 1.87 |
| TRUE | 1/1 | 1/1 | 7.75 | 6.85 | 1.87 |
| TRUE | 1/1 | 1/1 | 4.25 | 4.23 | 1.02 |
| TRUE | 1/1 | 1/1 | 4.25 | 4.23 | 1.02 |
| TRUE | 1/1 | 1/1 | 4.25 | 4.23 | 1.02 |
| TRUE | 1/1 | 1/1 | 4.27 | 3.72 | 1.47 |
| TRUE | 1/1 | 1/1 | 4.27 | 3.72 | 1.47 |
| TRUE | 1/1 | 1/1 | 4.27 | 3.72 | 1.47 |
| TRUE | 1/1 | 1/1 | 9.11 | 11.56 | -5.46 |
| TRUE | 1/1 | 1/1 | 9.11 | 11.56 | -5.46 |
| TRUE | 1/1 | 1/1 | 9.11 | 11.56 | -5.46 |
| TRUE | 1/1 | 1/1 | 9.11 | 11.56 | -5.46 |
| TRUE | 1/1 | 1/1 | 6.77 | 6 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.77 | 6 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.77 | 6 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.77 | 6 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.75 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.77 | 7.98 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.77 | 7.98 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.43 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.43 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.43 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.43 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.43 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.43 | 1.42 |
| TRUE | 1/1 | 1/1 | 8.21 | 8.86 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.21 | 8.86 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | -1 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | -1 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | -1 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.04 | -1 |
| TRUE | 1/1 | 1/1 | 9.78 | 9.95 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.78 | 9.95 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.78 | 9.95 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.05 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.43 | 7.05 | -1.55 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.23 | 8.31 | -2.11 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.31 | -2.11 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.31 | -2.11 |
| TRUE | 1/1 | 1/1 | 7.23 | 8.31 | -2.11 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.36 | 5.9 | 1.38 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.51 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.08 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.08 | -1.33 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.65 | -1.35 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.65 | -1.35 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.65 | -1.35 |
| TRUE | 1/1 | 1/1 | 3.44 | 3.61 | -1.12 |
| TRUE | 1/1 | 1/1 | 3.44 | 3.61 | -1.12 |
| TRUE | 1/1 | 1/1 | 3.44 | 3.61 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.88 | -1.48 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.88 | -1.48 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.88 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.09 | 6.15 | -2.08 |
| TRUE | 1/1 | 1/1 | 5.09 | 6.15 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.01 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.36 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.36 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.36 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.79 | 8.08 | -1.22 |
| TRUE | 1/1 | 1/1 | 5.15 | 5.91 | -1.7 |
| TRUE | 1/1 | 1/1 | 5.15 | 5.91 | -1.7 |
| TRUE | 1/1 | 1/1 | 5.15 | 5.91 | -1.7 |
| TRUE | 1/1 | 1/1 | 5.15 | 5.91 | -1.7 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.79 | 4.87 | 1.89 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.87 | 1.89 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.21 | -1.6 |
| TRUE | 1/1 | 1/1 | 4.54 | 5.21 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.74 | 8.19 | -2.74 |
| TRUE | 1/1 | 1/1 | 6.74 | 8.19 | -2.74 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.39 | 4.91 | 1.4 |
| TRUE | 1/1 | 1/1 | 5.39 | 4.91 | 1.4 |
| TRUE | 1/1 | 1/1 | 5.39 | 4.91 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.82 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.82 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.82 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.21 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.21 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.21 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.21 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.21 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.77 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.77 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.77 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.77 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.77 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.77 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.52 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.52 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.41 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.41 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.41 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.41 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.97 | 6.86 | -1.86 |
| TRUE | 1/1 | 1/1 | 5.97 | 6.86 | -1.86 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.4 | -1.2 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.4 | -1.2 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.4 | -1.2 |
| TRUE | 1/1 | 1/1 | 8.13 | 8.4 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.85 | -1.6 |
| TRUE | 1/1 | 1/1 | 5.86 | 6.19 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.86 | 6.19 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.28 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.28 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.28 | -1.16 |
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |
| TRUE | 1/1 | 1/1 | 8.77 | 7.28 | 2.82 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.4 | -1.39 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.4 | -1.39 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.4 | -1.39 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.4 | -1.39 |
| TRUE | 1/1 | 1/1 | 5.44 | 5.32 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.44 | 5.32 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.44 | 5.32 | 1.08 |
| TRUE | 1/1 | 1/1 | 3.96 | 3.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.96 | 3.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.96 | 3.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.96 | 3.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.96 | 3.91 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.24 | 2.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 3.24 | 2.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 3.24 | 2.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 3.24 | 2.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.97 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.97 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.97 | -1.06 |
| TRUE | 1/1 | 1/1 | 11.82 | 6.26 | 47.22 |
| TRUE | 1/1 | 1/1 | 11.82 | 6.26 | 47.22 |
| TRUE | 1/1 | 1/1 | 11.82 | 6.26 | 47.22 |
| TRUE | 1/1 | 1/1 | 11.82 | 6.26 | 47.22 |
| TRUE | 1/1 | 1/1 | 11.82 | 6.26 | 47.22 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.01 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.01 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.6 | 5.01 | -1.32 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.98 | -2.04 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.98 | -2.04 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.54 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.54 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.54 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.54 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.54 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.76 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.72 | 8.76 | -2.06 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.6 | -1.18 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.6 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.31 | 9.39 | -2.11 |
| TRUE | 1/1 | 1/1 | 8.31 | 9.39 | -2.11 |
| TRUE | 1/1 | 1/1 | 8.31 | 9.39 | -2.11 |
| TRUE | 1/1 | 1/1 | 8.31 | 9.39 | -2.11 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.29 | 4.91 | -1.54 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.11 | -1.59 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.26 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.26 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.26 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.26 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.26 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.15 | 8.26 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.7 | 7.71 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.7 | 7.71 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.7 | 7.71 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.7 | 7.71 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.7 | 7.71 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.4 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.4 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.4 |
| TRUE | 1/1 | 1/1 | 7.9 | 8.38 | -1.4 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.83 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.83 | 1.03 |
| TRUE | 1/1 | 1/1 | 10.86 | 9.77 | 2.14 |
| TRUE | 1/1 | 1/1 | 10.86 | 9.77 | 2.14 |
| TRUE | 1/1 | 1/1 | 10.86 | 9.77 | 2.14 |
| TRUE | 1/1 | 1/1 | 10.86 | 9.77 | 2.14 |
| TRUE | 1/1 | 1/1 | 10.86 | 9.77 | 2.14 |
| TRUE | 1/1 | 1/1 | 10.86 | 9.77 | 2.14 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.85 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.85 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.85 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.85 | 1.25 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.94 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.94 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.94 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.95 | -2.67 |
| TRUE | 1/1 | 1/1 | 5.54 | 6.95 | -2.67 |
| TRUE | 1/1 | 1/1 | 4.12 | 4.22 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.12 | 4.22 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.12 | 4.22 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.12 | 4.22 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.12 | 4.22 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.69 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.69 | 1.1 |
| TRUE | 1/1 | 1/1 | 8 | 7.67 | 1.26 |
| TRUE | 1/1 | 1/1 | 8 | 7.67 | 1.26 |
| TRUE | 1/1 | 1/1 | 8 | 7.67 | 1.26 |
| TRUE | 1/1 | 1/1 | 8 | 7.67 | 1.26 |
| TRUE | 1/1 | 1/1 | 8 | 7.67 | 1.26 |
| TRUE | 1/1 | 1/1 | 8 | 7.67 | 1.26 |
| TRUE | 1/1 | 1/1 | 9.99 | 9.87 | 1.09 |
| TRUE | 1/1 | 1/1 | 9.99 | 9.87 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.38 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.38 | -1.23 |
| TRUE | 1/1 | 1/1 | 5.09 | 5.38 | -1.23 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.51 | 1.29 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.51 | 1.29 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.89 | 8.51 | 1.29 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.94 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.94 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.94 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.94 | 1.23 |
| TRUE | 1/1 | 1/1 | 9.52 | 10.05 | -1.44 |
| TRUE | 1/1 | 1/1 | 9.52 | 10.05 | -1.44 |
| TRUE | 1/1 | 1/1 | 9.52 | 10.05 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 8.46 | 9.82 | -2.57 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 7.48 | 6.53 | 1.94 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.8 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.8 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.27 | 8.68 | -1.32 |
| TRUE | 1/1 | 1/1 | 8.27 | 8.68 | -1.32 |
| TRUE | 1/1 | 1/1 | 8.27 | 8.68 | -1.32 |
| TRUE | 1/1 | 1/1 | 3.02 | 3.21 | -1.14 |
| TRUE | 1/1 | 1/1 | 3.02 | 3.21 | -1.14 |
| TRUE | 1/1 | 1/1 | 3.02 | 3.21 | -1.14 |
| TRUE | 1/1 | 1/1 | 3.02 | 3.21 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.42 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.68 | 1.81 |
| TRUE | 1/1 | 1/1 | 3.88 | 4.54 | -1.58 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 7.52 | 7.07 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.95 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.95 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.95 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.49 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.48 | 8 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.48 | 8 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.48 | 8 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.48 | 8 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.48 | 8 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.41 | -1.38 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.41 | -1.38 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.41 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.46 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.46 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.46 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.46 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.46 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.99 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.99 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.99 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.99 | -1.16 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 10.12 | 9.21 | 1.88 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.75 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.75 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.75 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.75 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.75 | -1.12 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.76 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.76 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.63 | 8.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 8.63 | 8.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 8.63 | 8.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 8.63 | 8.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.51 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.51 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.51 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.51 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.51 | -1.64 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.22 | 1.19 |
| TRUE | 1/1 | 1/1 | 7.48 | 7.22 | 1.19 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.48 | 7.22 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.9 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.9 | -1.04 |
| TRUE | 1/1 | 1/1 | 8.65 | 7.7 | 1.93 |
| TRUE | 1/1 | 1/1 | 8.65 | 7.7 | 1.93 |
| TRUE | 1/1 | 1/1 | 8.65 | 7.7 | 1.93 |
| TRUE | 1/1 | 1/1 | 8.65 | 7.7 | 1.93 |
| TRUE | 1/1 | 1/1 | 8.65 | 7.7 | 1.93 |
| TRUE | 1/1 | 1/1 | 8.65 | 7.7 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.62 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.62 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.62 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.62 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.62 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.48 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.48 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.48 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.94 | 5.41 | -1.38 |
| TRUE | 1/1 | 1/1 | 4.94 | 5.41 | -1.38 |
| TRUE | 1/1 | 1/1 | 4.94 | 5.41 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.39 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.39 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.39 | 1.31 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.08 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.08 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.08 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.13 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.13 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.13 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.13 | 1.3 |
| TRUE | 1/1 | 1/1 | 5.51 | 5.13 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.17 | 3.99 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.17 | 3.99 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.17 | 3.99 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.17 | 3.99 | 1.13 |
| TRUE | 1/1 | 1/1 | 9 | 8.84 | 1.12 |
| TRUE | 1/1 | 1/1 | 9 | 8.84 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.73 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.73 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.88 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.88 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.88 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.88 | -1.68 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.56 | -2.06 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.56 | -2.06 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.56 | -2.06 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.56 | -2.06 |
| TRUE | 1/1 | 1/1 | 4.51 | 5.56 | -2.06 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 4.31 | 2.82 | 2.82 |
| TRUE | 1/1 | 1/1 | 9.93 | 9.77 | 1.12 |
| TRUE | 1/1 | 1/1 | 9.93 | 9.77 | 1.12 |
| TRUE | 1/1 | 1/1 | 9.93 | 9.77 | 1.12 |
| TRUE | 1/1 | 1/1 | 9.93 | 9.77 | 1.12 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.74 | 5.76 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.36 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.36 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.36 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.49 | 6.37 | 2.18 |
| TRUE | 1/1 | 1/1 | 7.49 | 6.37 | 2.18 |
| TRUE | 1/1 | 1/1 | 7.49 | 6.37 | 2.18 |
| TRUE | 1/1 | 1/1 | 7.49 | 6.37 | 2.18 |
| TRUE | 1/1 | 1/1 | 7.49 | 6.37 | 2.18 |
| TRUE | 1/1 | 1/1 | 7.49 | 6.37 | 2.18 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.73 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.73 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.73 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.26 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.26 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.26 | -1.82 |
| TRUE | 1/1 | 1/1 | 8.39 | 9.26 | -1.82 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.02 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.02 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.02 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.02 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.02 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.18 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.18 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 7.35 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.84 | 7.35 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.84 | 7.35 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 6.26 | 4.63 | 3.11 |
| TRUE | 1/1 | 1/1 | 8.62 | 9.88 | -2.39 |
| TRUE | 1/1 | 1/1 | 8.62 | 9.88 | -2.39 |
| TRUE | 1/1 | 1/1 | 8.62 | 9.88 | -2.39 |
| TRUE | 1/1 | 1/1 | 3.69 | 4.25 | -1.48 |
| TRUE | 1/1 | 1/1 | 3.69 | 4.25 | -1.48 |
| TRUE | 1/1 | 1/1 | 3.69 | 4.25 | -1.48 |
| TRUE | 1/1 | 1/1 | 3.69 | 4.25 | -1.48 |
| TRUE | 1/1 | 1/1 | 3.69 | 4.25 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.21 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.21 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.21 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.28 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.28 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.28 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.28 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.54 | -1.28 |
| TRUE | 1/1 | 1/1 | 9.6 | 9.5 | 1.07 |
| TRUE | 1/1 | 1/1 | 9.6 | 9.5 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.29 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.29 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.29 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.29 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.29 | -1.81 |
| TRUE | 1/1 | 1/1 | 5.44 | 6.29 | -1.81 |
| TRUE | 1/1 | 1/1 | 9.46 | 9.69 | -1.18 |
| TRUE | 1/1 | 1/1 | 9.46 | 9.69 | -1.18 |
| TRUE | 1/1 | 1/1 | 9 | 9.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 9 | 9.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 9 | 9.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.34 | 7.02 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.34 | 7.02 | -1.6 |
| TRUE | 1/1 | 1/1 | 6.34 | 7.02 | -1.6 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.52 | 6.33 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.73 | 6.13 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.04 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.04 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.04 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.04 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.04 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.04 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.04 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.26 | -1 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.25 | 7.26 | -1 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.26 | -1 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 8.97 | 7.54 | 2.7 |
| TRUE | 1/1 | 1/1 | 6.06 | 5.86 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.06 | 5.86 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.06 | 5.86 | 1.15 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.69 | -1.38 |
| TRUE | 1/1 | 1/1 | 8.23 | 8.69 | -1.38 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.86 | -1.39 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.86 | -1.39 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.86 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.67 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.67 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.35 | 8.14 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.35 | 8.14 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.35 | 8.14 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.35 | 8.14 | -1.73 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 8.93 | 6.26 | 6.34 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.27 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.27 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.18 | 5.27 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.8 | 6.03 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.8 | 6.03 | 1.7 |
| TRUE | 1/1 | 1/1 | 9.03 | 6.67 | 5.14 |
| TRUE | 1/1 | 1/1 | 9.03 | 6.67 | 5.14 |
| TRUE | 1/1 | 1/1 | 9.03 | 6.67 | 5.14 |
| TRUE | 1/1 | 1/1 | 9.03 | 6.67 | 5.14 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.4 | -1.28 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.4 | -1.28 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.4 | -1.28 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.19 | 7.23 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.19 | 7.23 | -1.03 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 6 | 5.89 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.4 | 8.1 | 1.23 |
| TRUE | 1/1 | 1/1 | 8.4 | 8.1 | 1.23 |
| TRUE | 1/1 | 1/1 | 8.4 | 8.1 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.31 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.03 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.03 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.03 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.51 | -1.93 |
| TRUE | 1/1 | 1/1 | 5.55 | 6.51 | -1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.46 | 1.93 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.1 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.1 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.1 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.1 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.95 | 6.1 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.64 | -1.51 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.29 | -1.93 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.29 | -1.93 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.29 | -1.93 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.74 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.74 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.74 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.21 | 6.74 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.15 | -1.3 |
| TRUE | 1/1 | 1/1 | 7.77 | 8.15 | -1.3 |
| TRUE | 1/1 | 1/1 | 4.79 | 5.34 | -1.47 |
| TRUE | 1/1 | 1/1 | 4.79 | 5.34 | -1.47 |
| TRUE | 1/1 | 1/1 | 5 | 4.43 | 1.49 |
| TRUE | 1/1 | 1/1 | 5 | 4.43 | 1.49 |
| TRUE | 1/1 | 1/1 | 5 | 4.43 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.64 | -1.25 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.59 | 7.67 | -2.12 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.03 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.03 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.3 | 8.03 | -1.66 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.25 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.25 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.92 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.92 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.92 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.92 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.92 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 4.55 | 3.28 | 2.4 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.99 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.99 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.99 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.99 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.25 | 6.99 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.85 | 9.6 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.8 | 9.36 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.8 | 9.36 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.26 | 6.15 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.26 | 6.15 | -1.84 |
| TRUE | 1/1 | 1/1 | 5.26 | 6.15 | -1.84 |
| TRUE | 1/1 | 1/1 | 4.13 | 5.13 | -2 |
| TRUE | 1/1 | 1/1 | 4.13 | 5.13 | -2 |
| TRUE | 1/1 | 1/1 | 6.31 | 7.07 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.31 | 7.07 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.44 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.44 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.44 | -1.14 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.66 | 6.12 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.12 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.12 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.12 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.12 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.66 | 6.12 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.52 | 9.32 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.52 | 9.32 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.52 | 9.32 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.52 | 9.32 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.09 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.09 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.09 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.62 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.62 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.62 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.62 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.83 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.87 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.87 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.87 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.52 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.52 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.52 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.94 | 5.22 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.94 | 5.22 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.28 | 7.38 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.28 | 7.38 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.28 | 7.38 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.36 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.36 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.36 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.4 | 7.36 | -1.95 |
| TRUE | 1/1 | 1/1 | 7.3 | 5.85 | 2.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 5.85 | 2.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 5.85 | 2.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 5.85 | 2.73 |
| TRUE | 1/1 | 1/1 | 7.3 | 5.85 | 2.73 |
| TRUE | 1/1 | 1/1 | 5.99 | 6.42 | -1.35 |
| TRUE | 1/1 | 1/1 | 5.99 | 6.42 | -1.35 |
| TRUE | 1/1 | 1/1 | 5.99 | 6.42 | -1.35 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.99 | 6.42 | -1.35 |
| TRUE | 1/1 | 1/1 | 5.99 | 6.42 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.66 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.66 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.64 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.64 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.1 | 5.64 | -1.45 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.63 | 1.58 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.63 | 1.58 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.99 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.99 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.33 | 4.24 | -1.88 |
| TRUE | 1/1 | 1/1 | 3.33 | 4.24 | -1.88 |
| TRUE | 1/1 | 1/1 | 7.44 | 7.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.44 | 7.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.44 | 7.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.52 | -2.26 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.52 | -2.26 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.52 | -2.26 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.52 | -2.26 |
| TRUE | 1/1 | 1/1 | 7.34 | 8.52 | -2.26 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.91 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.91 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.91 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.91 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.91 | -2.3 |
| TRUE | 1/1 | 1/1 | 8.71 | 9.91 | -2.3 |
| TRUE | 1/1 | 1/1 | 3.3 | 3.54 | -1.18 |
| TRUE | 1/1 | 1/1 | 3.3 | 3.54 | -1.18 |
| TRUE | 1/1 | 1/1 | 3.3 | 3.54 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.22 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.22 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.63 | 7.22 | -1.52 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.44 | -1.51 |
| TRUE | 1/1 | 1/1 | 10.16 | 10.45 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.16 | 10.45 | -1.22 |
| TRUE | 1/1 | 1/1 | 10.16 | 10.45 | -1.22 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.68 | 1 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.68 | 1 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.68 | 1 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.68 | 1 |
| TRUE | 1/1 | 1/1 | 3.24 | 3.82 | -1.5 |
| TRUE | 1/1 | 1/1 | 3.24 | 3.82 | -1.5 |
| TRUE | 1/1 | 1/1 | 3.24 | 3.82 | -1.5 |
| TRUE | 1/1 | 1/1 | 3.24 | 3.82 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.89 | 6.97 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.89 | 6.97 | -1.06 |
| TRUE | 1/1 | 1/1 | 3.77 | 4.12 | -1.27 |
| TRUE | 1/1 | 1/1 | 3.77 | 4.12 | -1.27 |
| TRUE | 1/1 | 1/1 | 3.77 | 4.12 | -1.27 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.12 | 1.83 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.12 | 1.83 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 3.99 | 3.12 | 1.83 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.12 | 1.83 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.12 | 1.83 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.12 | 1.83 |
| TRUE | 1/1 | 1/1 | 6.47 | 4.65 | 3.52 |
| TRUE | 1/1 | 1/1 | 6.47 | 4.65 | 3.52 |
| TRUE | 1/1 | 1/1 | 6.47 | 4.65 | 3.52 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.18 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 5.2 | 5.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.35 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.78 | 7.35 | -1.49 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.81 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.99 | -2.21 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.99 | -2.21 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.99 | -2.21 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.99 | -2.21 |
| TRUE | 1/1 | 1/1 | 4.84 | 5.99 | -2.21 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.18 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.56 | 7.18 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.84 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.84 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.84 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.84 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.84 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.84 | -1.42 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.11 | 8.53 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.11 | 8.53 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.11 | 8.53 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.66 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.66 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.28 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.28 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.28 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.28 | -1.32 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.28 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.12 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.12 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.12 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.09 | 7.12 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.75 | 6.31 | 5.39 |
| TRUE | 1/1 | 1/1 | 8.75 | 6.31 | 5.39 |
| TRUE | 1/1 | 1/1 | 8.75 | 6.31 | 5.39 |
| TRUE | 1/1 | 1/1 | 8.75 | 6.31 | 5.39 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.39 | 3.66 | 6.63 |
| TRUE | 1/1 | 1/1 | 6.39 | 3.66 | 6.63 |
| TRUE | 1/1 | 1/1 | 6.39 | 3.66 | 6.63 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.41 | 1.24 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.41 | 1.24 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.41 | 1.24 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.06 | 4.43 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.43 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.43 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.43 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.31 | 1.53 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.31 | 1.53 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.31 | 1.53 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.31 | 1.53 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.31 | 1.53 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.31 | 1.53 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.14 | 1.37 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.14 | 1.37 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.14 | 1.37 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.14 | 1.37 |
| TRUE | 1/1 | 1/1 | 3.61 | 4.09 | -1.39 |
| TRUE | 1/1 | 1/1 | 3.61 | 4.09 | -1.39 |
| TRUE | 1/1 | 1/1 | 3.61 | 4.09 | -1.39 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.35 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.35 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.35 | -1.32 |
| TRUE | 1/1 | 1/1 | 5.56 | 5.64 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.56 | 5.64 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.56 | 5.64 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.56 | 5.64 | -1.06 |
| TRUE | 1/1 | 1/1 | 9 | 8.91 | 1.07 |
| TRUE | 1/1 | 1/1 | 9 | 8.91 | 1.07 |
| TRUE | 1/1 | 1/1 | 9 | 8.91 | 1.07 |
| TRUE | 1/1 | 1/1 | 9 | 8.91 | 1.07 |
| TRUE | 1/1 | 1/1 | 9 | 8.91 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.12 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.12 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.12 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.12 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.12 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.02 | 6.8 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.28 | 9.18 | -1.87 |
| TRUE | 1/1 | 1/1 | 8.28 | 9.18 | -1.87 |
| TRUE | 1/1 | 1/1 | 10.82 | 11.21 | -1.31 |
| TRUE | 1/1 | 1/1 | 10.82 | 11.21 | -1.31 |
| TRUE | 1/1 | 1/1 | 10.82 | 11.21 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.42 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.42 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.42 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.42 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.42 | -1.28 |
| TRUE | 1/1 | 1/1 | 11.02 | 12.23 | -2.32 |
| TRUE | 1/1 | 1/1 | 11.02 | 12.23 | -2.32 |
| TRUE | 1/1 | 1/1 | 11.02 | 12.23 | -2.32 |
| TRUE | 1/1 | 1/1 | 4.86 | 4.89 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.86 | 4.89 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.49 | 6.24 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.49 | 6.24 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.49 | 6.24 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.33 | 9.14 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.33 | 9.14 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.33 | 9.14 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.33 | 9.14 | -1.75 |
| TRUE | 1/1 | 1/1 | 9.41 | 9.89 | -1.39 |
| TRUE | 1/1 | 1/1 | 9.41 | 9.89 | -1.39 |
| TRUE | 1/1 | 1/1 | 9.41 | 9.89 | -1.39 |
| TRUE | 1/1 | 1/1 | 4.85 | 5.03 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.85 | 5.03 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.24 | -1.11 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.24 | -1.11 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.24 | -1.11 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.24 | -1.11 |
| TRUE | 1/1 | 1/1 | 9.09 | 9.24 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.58 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.58 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.58 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.58 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.58 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.41 | 5.58 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.8 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.61 | -1.42 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.61 | -1.42 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 12.4 | 9.56 | 7.13 |
| TRUE | 1/1 | 1/1 | 12.4 | 9.56 | 7.13 |
| TRUE | 1/1 | 1/1 | 12.4 | 9.56 | 7.13 |
| TRUE | 1/1 | 1/1 | 8.37 | 9.09 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.37 | 9.09 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.37 | 9.09 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.37 | 9.09 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.16 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.16 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.7 | 6.72 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.7 | 6.72 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.7 | 6.72 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.7 | 6.72 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.7 | 6.72 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.7 | 6.72 | -1.01 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.31 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.55 | 4.31 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.52 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.52 | -1.19 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.68 | 7.76 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.42 | 8.12 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.63 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.63 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.63 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.63 | -1.35 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.63 | -1.35 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.52 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.52 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.52 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.52 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.52 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.78 | 4.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 4.78 | 4.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 7.24 | 5.61 | 3.08 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.43 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.43 | -1.24 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.31 | 6.88 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.74 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.74 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.74 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.74 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.74 | -1.8 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.74 | -1.8 |
| TRUE | 1/1 | 1/1 | 5.37 | 4.77 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.37 | 4.77 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.37 | 4.77 | 1.51 |
| TRUE | 1/1 | 1/1 | 3.39 | 4.41 | -2.03 |
| TRUE | 1/1 | 1/1 | 3.39 | 4.41 | -2.03 |
| TRUE | 1/1 | 1/1 | 3.39 | 4.41 | -2.03 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.92 | 1.16 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.92 | 1.16 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.92 | 1.16 |
| TRUE | 1/1 | 1/1 | 5.86 | 5.72 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.86 | 5.72 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.86 | 5.72 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.21 | 9.45 | -1.18 |
| TRUE | 1/1 | 1/1 | 9.21 | 9.45 | -1.18 |
| TRUE | 1/1 | 1/1 | 9.21 | 9.45 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.18 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.18 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.18 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.82 | -1.63 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.68 | -1.5 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.68 | -1.5 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.68 | -1.5 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.68 | -1.5 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.68 | -1.5 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.09 | 4.68 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.36 | 1.06 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.36 | 1.06 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.36 | 1.06 |
| TRUE | 1/1 | 1/1 | 6.2 | 6.96 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.2 | 6.96 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.2 | 6.96 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.2 | 6.96 | -1.69 |
| TRUE | 1/1 | 1/1 | 6.2 | 6.96 | -1.69 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.75 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.86 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.45 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.45 | 1.18 |
| TRUE | 1/1 | 1/1 | 2.77 | 3.89 | -2.17 |
| TRUE | 1/1 | 1/1 | 2.77 | 3.89 | -2.17 |
| TRUE | 1/1 | 1/1 | 2.77 | 3.89 | -2.17 |
| TRUE | 1/1 | 1/1 | 2.77 | 3.89 | -2.17 |
| TRUE | 1/1 | 1/1 | 6.89 | 6.86 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.89 | 6.86 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.89 | 6.86 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.1 | 7 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.1 | 7 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.1 | 7 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.1 | 7 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.1 | 7 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.1 | 7 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.75 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.75 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.94 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.94 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.94 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.25 | 6.62 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.25 | 6.62 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.25 | 6.62 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.25 | 6.62 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.63 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.63 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.63 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.63 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.63 | -1.95 |
| TRUE | 1/1 | 1/1 | 5.67 | 6.63 | -1.95 |
| TRUE | 1/1 | 1/1 | 7.24 | 7.88 | -1.56 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.24 | 7.88 | -1.56 |
| TRUE | 1/1 | 1/1 | 7.24 | 7.88 | -1.56 |
| TRUE | 1/1 | 1/1 | 7.24 | 7.88 | -1.56 |
| TRUE | 1/1 | 1/1 | 8.35 | 8.41 | -1.04 |
| TRUE | 1/1 | 1/1 | 8.35 | 8.41 | -1.04 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.39 | -1.24 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.39 | -1.24 |
| TRUE | 1/1 | 1/1 | 3.52 | 4.67 | -2.22 |
| TRUE | 1/1 | 1/1 | 3.52 | 4.67 | -2.22 |
| TRUE | 1/1 | 1/1 | 3.52 | 4.67 | -2.22 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 8.49 | 9.7 | -2.32 |
| TRUE | 1/1 | 1/1 | 5.07 | 4.74 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.07 | 4.74 | 1.26 |
| TRUE | 1/1 | 1/1 | 4.63 | 4.51 | 1.09 |
| TRUE | 1/1 | 1/1 | 4.63 | 4.51 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.36 | 4.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 4.28 | 3.88 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.28 | 3.88 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.28 | 3.88 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.28 | 3.88 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.28 | 3.88 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.28 | 3.88 | 1.32 |
| TRUE | 1/1 | 1/1 | 9.07 | 8.52 | 1.47 |
| TRUE | 1/1 | 1/1 | 9.07 | 8.52 | 1.47 |
| TRUE | 1/1 | 1/1 | 3.58 | 3.74 | -1.12 |
| TRUE | 1/1 | 1/1 | 3.58 | 3.74 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.38 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.38 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.08 | 7.38 | -1.24 |
| TRUE | 1/1 | 1/1 | 3.07 | 2.6 | 1.38 |
| TRUE | 1/1 | 1/1 | 3.07 | 2.6 | 1.38 |
| TRUE | 1/1 | 1/1 | 3.07 | 2.6 | 1.38 |
| TRUE | 1/1 | 1/1 | 9.22 | 9.43 | -1.16 |
| TRUE | 1/1 | 1/1 | 9.22 | 9.43 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.48 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.48 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.48 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.89 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.89 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.89 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.9 | 7.81 | -1.88 |
| TRUE | 1/1 | 1/1 | 4.12 | 3.82 | 1.23 |
| TRUE | 1/1 | 1/1 | 4.12 | 3.82 | 1.23 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.06 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.06 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.15 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.15 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.15 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.15 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.82 | 8.15 | -1.26 |
| TRUE | 1/1 | 1/1 | 9.28 | 9.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.28 | 9.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.28 | 9.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.28 | 9.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.28 | 9.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.62 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.68 | 7.62 | -1.92 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.55 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.55 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.55 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.23 | -1.49 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.23 | -1.49 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.29 | -1.68 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.29 | -1.68 |
| TRUE | 1/1 | 1/1 | 5.47 | 6.05 | -1.49 |
| TRUE | 1/1 | 1/1 | 5.47 | 6.05 | -1.49 |
| TRUE | 1/1 | 1/1 | 8.2 | 8.68 | -1.4 |
| TRUE | 1/1 | 1/1 | 8.2 | 8.68 | -1.4 |
| TRUE | 1/1 | 1/1 | 8.2 | 8.68 | -1.4 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.79 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.79 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.79 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.02 | 8.79 | -1.71 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.19 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.19 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.19 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.64 | 8.19 | -1.46 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.84 | 1.42 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.84 | 1.42 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.84 | 1.42 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.44 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.44 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.44 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.01 | 4.65 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.01 | 4.65 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.01 | 4.65 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.74 | 1.17 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.79 | -2.09 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.79 | -2.09 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.68 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.68 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.55 | 7.68 | -1.09 |
| TRUE | 1/1 | 1/1 | 8.34 | 8.66 | -1.25 |
| TRUE | 1/1 | 1/1 | 8.34 | 8.66 | -1.25 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.7 | -1.42 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.19 | 8.7 | -1.42 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.7 | -1.42 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.7 | -1.42 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.7 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.09 | -1.97 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.09 | -1.97 |
| TRUE | 1/1 | 1/1 | 6.11 | 7.09 | -1.97 |
| TRUE | 1/1 | 1/1 | 3.62 | 5.13 | -2.85 |
| TRUE | 1/1 | 1/1 | 3.62 | 5.13 | -2.85 |
| TRUE | 1/1 | 1/1 | 3.62 | 5.13 | -2.85 |
| TRUE | 1/1 | 1/1 | 3.62 | 5.13 | -2.85 |
| TRUE | 1/1 | 1/1 | 3.62 | 5.13 | -2.85 |
| TRUE | 1/1 | 1/1 | 4.95 | 4.99 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.95 | 4.99 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.37 | 6.84 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.37 | 6.84 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.37 | 6.84 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.37 | 6.84 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.37 | 6.84 | -1.38 |
| TRUE | 1/1 | 1/1 | 7.89 | 6.21 | 3.2 |
| TRUE | 1/1 | 1/1 | 7.89 | 6.21 | 3.2 |
| TRUE | 1/1 | 1/1 | 7.89 | 6.21 | 3.2 |
| TRUE | 1/1 | 1/1 | 7.89 | 6.21 | 3.2 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.15 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.37 | 6.15 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.69 | 6.99 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.69 | 6.99 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.69 | 6.99 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.69 | 6.99 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.69 | 6.99 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.04 | 3.6 | 1.35 |
| TRUE | 1/1 | 1/1 | 4.04 | 3.6 | 1.35 |
| TRUE | 1/1 | 1/1 | 4.04 | 3.6 | 1.35 |
| TRUE | 1/1 | 1/1 | 4.04 | 3.6 | 1.35 |
| TRUE | 1/1 | 1/1 | 10 | 9.72 | 1.22 |
| TRUE | 1/1 | 1/1 | 10 | 9.72 | 1.22 |
| TRUE | 1/1 | 1/1 | 10 | 9.72 | 1.22 |
| TRUE | 1/1 | 1/1 | 10 | 9.72 | 1.22 |
| TRUE | 1/1 | 1/1 | 10 | 9.72 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.96 | 9.01 | -2.07 |
| TRUE | 1/1 | 1/1 | 7.96 | 9.01 | -2.07 |
| TRUE | 1/1 | 1/1 | 7.96 | 9.01 | -2.07 |
| TRUE | 1/1 | 1/1 | 7.96 | 9.01 | -2.07 |
| TRUE | 1/1 | 1/1 | 7.96 | 9.01 | -2.07 |
| TRUE | 1/1 | 1/1 | 7.96 | 9.01 | -2.07 |
| TRUE | 1/1 | 1/1 | 3.38 | 2.89 | 1.4 |
| TRUE | 1/1 | 1/1 | 3.38 | 2.89 | 1.4 |
| TRUE | 1/1 | 1/1 | 3.38 | 2.89 | 1.4 |
| TRUE | 1/1 | 1/1 | 3.38 | 2.89 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.6 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.6 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.6 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.6 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.17 | -1.72 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.17 | -1.72 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.17 | -1.72 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.39 | 6.17 | -1.72 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.17 | -1.72 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.1 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.1 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.1 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.1 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.1 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.1 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.13 | 3.67 | 1.38 |
| TRUE | 1/1 | 1/1 | 4.13 | 3.67 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.8 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.8 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.8 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.8 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.8 | -1.95 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.8 | -1.95 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.09 | 8.57 | -1.39 |
| TRUE | 1/1 | 1/1 | 4.9 | 5.28 | -1.3 |
| TRUE | 1/1 | 1/1 | 4.9 | 5.28 | -1.3 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.62 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.62 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.62 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.64 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.64 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.64 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.64 | -1.92 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.4 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.4 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.4 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.4 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.4 | -1.51 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.67 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.67 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.34 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.34 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.34 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.78 | 6.34 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.13 | 5.85 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.13 | 5.85 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.13 | 5.85 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.72 | -1.25 |
| TRUE | 1/1 | 1/1 | 10.77 | 10.74 | 1.03 |
| TRUE | 1/1 | 1/1 | 10.77 | 10.74 | 1.03 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 10.77 | 10.74 | 1.03 |
| TRUE | 1/1 | 1/1 | 10.77 | 10.74 | 1.03 |
| TRUE | 1/1 | 1/1 | 10.77 | 10.74 | 1.03 |
| TRUE | 1/1 | 1/1 | 9.08 | 9.36 | -1.21 |
| TRUE | 1/1 | 1/1 | 9.08 | 9.36 | -1.21 |
| TRUE | 1/1 | 1/1 | 9.08 | 9.36 | -1.21 |
| TRUE | 1/1 | 1/1 | 9.08 | 9.36 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.6 | 4.95 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.6 | 4.95 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.6 | 4.95 | 1.57 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.62 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.62 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.62 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.62 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.56 | 7.62 | -1.05 |
| TRUE | 1/1 | 1/1 | 4.98 | 5.51 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.98 | 5.51 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.28 | 4.42 | 3.63 |
| TRUE | 1/1 | 1/1 | 6.28 | 4.42 | 3.63 |
| TRUE | 1/1 | 1/1 | 6.28 | 4.42 | 3.63 |
| TRUE | 1/1 | 1/1 | 6.28 | 4.42 | 3.63 |
| TRUE | 1/1 | 1/1 | 6.28 | 4.42 | 3.63 |
| TRUE | 1/1 | 1/1 | 3.99 | 4.89 | -1.86 |
| TRUE | 1/1 | 1/1 | 3.99 | 4.89 | -1.86 |
| TRUE | 1/1 | 1/1 | 8.41 | 8.89 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.41 | 8.89 | -1.39 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.5 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.5 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.79 | 1.21 |
| TRUE | 1/1 | 1/1 | 7.06 | 6.79 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.99 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.99 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.99 | -1.44 |
| TRUE | 1/1 | 1/1 | 8.47 | 8.99 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.29 | -1.06 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.29 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.28 | 9.2 | -1.9 |
| TRUE | 1/1 | 1/1 | 8.28 | 9.2 | -1.9 |
| TRUE | 1/1 | 1/1 | 8.28 | 9.2 | -1.9 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.68 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.68 | -1.48 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.71 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.71 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.71 | -1.27 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.71 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.56 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.56 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.56 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.56 | -1.24 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.56 | -1.24 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.92 | -2.25 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.92 | -2.25 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.92 | -2.25 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.92 | -2.25 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.92 | -2.25 |
| TRUE | 1/1 | 1/1 | 6.59 | 4.51 | 4.22 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.33 | 6.28 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.28 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.28 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.28 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.2 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.2 | -1.49 |
| TRUE | 1/1 | 1/1 | 6.62 | 7.2 | -1.49 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 8.73 | -2.06 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.32 | -1.46 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.32 | -1.46 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 4.48 | 5.17 | -1.62 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.65 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.63 | 7.65 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.86 | 8.06 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.86 | 8.06 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.86 | 8.06 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.86 | 8.06 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.87 | 7 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.87 | 7 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.87 | 7 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.87 | 7 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.76 | 1.22 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.76 | 1.22 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.76 | 1.22 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.76 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.99 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.99 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.99 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.83 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.83 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.83 | -1.04 |
| TRUE | 1/1 | 1/1 | 8.59 | 9.31 | -1.65 |
| TRUE | 1/1 | 1/1 | 8.59 | 9.31 | -1.65 |
| TRUE | 1/1 | 1/1 | 10.21 | 10.97 | -1.69 |
| TRUE | 1/1 | 1/1 | 10.21 | 10.97 | -1.69 |
| TRUE | 1/1 | 1/1 | 10.21 | 10.97 | -1.69 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.17 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.17 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.17 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.17 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.57 | 8.17 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.35 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.35 | -1.13 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.81 | 8.07 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.07 | -1.2 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.64 | 9.18 | 2.75 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.57 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.57 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.73 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.73 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.73 | -1.48 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.2 | 7.19 | 2.01 |
| TRUE | 1/1 | 1/1 | 10.36 | 10.89 | -1.44 |
| TRUE | 1/1 | 1/1 | 10.36 | 10.89 | -1.44 |
| TRUE | 1/1 | 1/1 | 10.36 | 10.89 | -1.44 |
| TRUE | 1/1 | 1/1 | 10.36 | 10.89 | -1.44 |
| TRUE | 1/1 | 1/1 | 10.36 | 10.89 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.63 | 6.27 | 1.29 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.97 | -1.72 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.36 | 3.19 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.36 | 3.19 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 7.71 | 5.65 | 4.17 |
| TRUE | 1/1 | 1/1 | 3.14 | 3.03 | 1.08 |
| TRUE | 1/1 | 1/1 | 3.14 | 3.03 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 5.48 | 3.03 | 5.49 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.19 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.31 | 2.45 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.75 | -1.51 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.75 | -1.51 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.75 | -1.51 |
| TRUE | 1/1 | 1/1 | 10.76 | 10.62 | 1.1 |
| TRUE | 1/1 | 1/1 | 10.76 | 10.62 | 1.1 |
| TRUE | 1/1 | 1/1 | 10.76 | 10.62 | 1.1 |
| TRUE | 1/1 | 1/1 | 4.83 | 4.67 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.83 | 4.67 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.83 | 4.67 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.83 | 4.67 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.83 | 4.67 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.83 | 4.67 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.95 | -1.64 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.95 | -1.64 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.95 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.86 | -1.72 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.86 | -1.72 |
| TRUE | 1/1 | 1/1 | 8.08 | 8.86 | -1.72 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.62 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.62 | -1.44 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.34 | 6.49 | -2.21 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.49 | -2.21 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.49 | -2.21 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.49 | -2.21 |
| TRUE | 1/1 | 1/1 | 5.34 | 6.49 | -2.21 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.81 | 1.6 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.81 | 1.6 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.11 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.11 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.11 | -1.1 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.05 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.05 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.05 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.05 | 1.18 |
| TRUE | 1/1 | 1/1 | 9.29 | 9.05 | 1.18 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.56 | 1.02 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.56 | 1.02 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.56 | 1.02 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.56 | 1.02 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.56 | 1.02 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.56 | 1.02 |
| TRUE | 1/1 | 1/1 | 9.33 | 10.23 | -1.87 |
| TRUE | 1/1 | 1/1 | 9.33 | 10.23 | -1.87 |
| TRUE | 1/1 | 1/1 | 9.33 | 10.23 | -1.87 |
| TRUE | 1/1 | 1/1 | 9.33 | 10.23 | -1.87 |
| TRUE | 1/1 | 1/1 | 9.33 | 10.23 | -1.87 |
| TRUE | 1/1 | 1/1 | 9.33 | 10.23 | -1.87 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.98 | 2.07 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.98 | 2.07 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.98 | 2.07 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.98 | 2.07 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.98 | 2.07 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.98 | 2.07 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.14 | -1.56 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.14 | -1.56 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.14 | -1.56 |
| TRUE | 1/1 | 1/1 | 4.49 | 5.14 | -1.56 |
| TRUE | 1/1 | 1/1 | 4.35 | 3.64 | 1.63 |
| TRUE | 1/1 | 1/1 | 4.35 | 3.64 | 1.63 |
| TRUE | 1/1 | 1/1 | 4.35 | 3.64 | 1.63 |
| TRUE | 1/1 | 1/1 | 4.35 | 3.64 | 1.63 |
| TRUE | 1/1 | 1/1 | 4.35 | 3.64 | 1.63 |
| TRUE | 1/1 | 1/1 | 4.35 | 3.64 | 1.63 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.83 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.83 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.83 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.64 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.64 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.64 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.64 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.64 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.64 | -1.3 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |
| TRUE | 1/1 | 1/1 | 5.79 | 4.53 | 2.4 |
| TRUE | 1/1 | 1/1 | 7.65 | 6.85 | 1.74 |
| TRUE | 1/1 | 1/1 | 7.65 | 6.85 | 1.74 |
| TRUE | 1/1 | 1/1 | 7.65 | 6.85 | 1.74 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.78 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.78 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.78 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.55 | 9.84 | -4.87 |
| TRUE | 1/1 | 1/1 | 7.55 | 9.84 | -4.87 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.45 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.45 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.45 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.63 | -2.28 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.63 | -2.28 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.63 | -2.28 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.63 | -2.28 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.63 | -2.28 |
| TRUE | 1/1 | 1/1 | 6.44 | 7.63 | -2.28 |
| TRUE | 1/1 | 1/1 | 11.48 | 9.39 | 4.26 |
| TRUE | 1/1 | 1/1 | 11.48 | 9.39 | 4.26 |
| TRUE | 1/1 | 1/1 | 11.48 | 9.39 | 4.26 |
| TRUE | 1/1 | 1/1 | 11.48 | 9.39 | 4.26 |
| TRUE | 1/1 | 1/1 | 11.48 | 9.39 | 4.26 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.89 | 2.64 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.91 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.91 | -1.44 |
| TRUE | 1/1 | 1/1 | 9.68 | 10.13 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.68 | 10.13 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.68 | 10.13 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.68 | 10.13 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.68 | 10.13 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.01 | 8.12 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.01 | 8.12 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.01 | 8.12 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.01 | 8.12 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.37 | 5.97 | 2.64 |
| TRUE | 1/1 | 1/1 | 7.37 | 5.97 | 2.64 |
| TRUE | 1/1 | 1/1 | 7.37 | 5.97 | 2.64 |
| TRUE | 1/1 | 1/1 | 7.37 | 5.97 | 2.64 |
| TRUE | 1/1 | 1/1 | 7.37 | 5.97 | 2.64 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.26 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.26 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.26 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.26 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.26 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.95 | 5.26 | -1.24 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.08 | -1.08 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.08 | -1.08 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.96 | 5.08 | -1.08 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.08 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.47 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.47 | -2.08 |
| TRUE | 1/1 | 1/1 | 6.41 | 7.47 | -2.08 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.47 | -2.04 |
| TRUE | 1/1 | 1/1 | 8.44 | 9.47 | -2.04 |
| TRUE | 1/1 | 1/1 | 4.48 | 4.18 | 1.23 |
| TRUE | 1/1 | 1/1 | 4.48 | 4.18 | 1.23 |
| TRUE | 1/1 | 1/1 | 4.48 | 4.18 | 1.23 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.97 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.97 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.97 | -2.02 |
| TRUE | 1/1 | 1/1 | 4.96 | 5.97 | -2.02 |
| TRUE | 1/1 | 1/1 | 10.89 | 11.13 | -1.18 |
| TRUE | 1/1 | 1/1 | 10.89 | 11.13 | -1.18 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.57 | -1.79 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.57 | -1.79 |
| TRUE | 1/1 | 1/1 | 3.73 | 4.57 | -1.79 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.01 | 1.5 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.01 | 1.5 |
| TRUE | 1/1 | 1/1 | 9.34 | 9.52 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.34 | 9.52 | -1.14 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.9 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.9 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.61 | 4.9 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.81 | 9.31 | 1.41 |
| TRUE | 1/1 | 1/1 | 9.81 | 9.31 | 1.41 |
| TRUE | 1/1 | 1/1 | 9.81 | 9.31 | 1.41 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.04 | -1.51 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.04 | -1.51 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.04 | -1.51 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.02 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.02 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.02 | -1.77 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.02 | -1.77 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.45 | -1.1 |
| TRUE | 1/1 | 1/1 | 8.32 | 8.45 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.31 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.31 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.31 | -1.29 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.45 | -1.34 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 4.03 | 4.45 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.03 | 4.45 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 7.06 | 5.53 | 2.89 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.77 | -1.73 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.77 | -1.73 |
| TRUE | 1/1 | 1/1 | 4.06 | 4.55 | -1.4 |
| TRUE | 1/1 | 1/1 | 4.06 | 4.55 | -1.4 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.23 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.23 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.23 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.23 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.24 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.24 | -1.77 |
| TRUE | 1/1 | 1/1 | 6.42 | 7.24 | -1.77 |
| TRUE | 1/1 | 1/1 | 8.51 | 9.29 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.51 | 9.29 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.51 | 9.29 | -1.71 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.2 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.2 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.2 | -1.11 |
| TRUE | 1/1 | 1/1 | 9.7 | 8.19 | 2.85 |
| TRUE | 1/1 | 1/1 | 9.7 | 8.19 | 2.85 |
| TRUE | 1/1 | 1/1 | 9.7 | 8.19 | 2.85 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.3 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.91 | 10.4 | -1.41 |
| TRUE | 1/1 | 1/1 | 9.91 | 10.4 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.32 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.32 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.32 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.16 | 7.32 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.48 | 8.1 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.48 | 8.1 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.48 | 8.1 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.48 | 8.1 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.48 | 8.1 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.48 | 8.1 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.52 | 5.48 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.52 | 5.48 | 1.03 |
| TRUE | 1/1 | 1/1 | 8.53 | 7.37 | 2.23 |
| TRUE | 1/1 | 1/1 | 8.53 | 7.37 | 2.23 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.4 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.4 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.4 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.4 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.4 | -1.02 |
| TRUE | 1/1 | 1/1 | 10.23 | 11.4 | -2.24 |
| TRUE | 1/1 | 1/1 | 10.23 | 11.4 | -2.24 |
| TRUE | 1/1 | 1/1 | 10.23 | 11.4 | -2.24 |
| TRUE | 1/1 | 1/1 | 10.23 | 11.4 | -2.24 |
| TRUE | 1/1 | 1/1 | 10.23 | 11.4 | -2.24 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.01 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.01 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.01 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.58 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.58 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.58 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.58 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.58 | 1.02 |
| TRUE | 1/1 | 1/1 | 6 | 6.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 6 | 6.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 6 | 6.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 6 | 6.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.69 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.69 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.69 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.69 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.69 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.69 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.47 | 5.58 | -1.08 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 11.04 | 11.33 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.04 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.04 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.04 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.04 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.57 | 1.41 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.57 | 1.41 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.57 | 1.41 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.57 | 1.41 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.57 | 1.41 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.27 | 7.32 | -2.07 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.84 | 1.59 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.84 | 1.59 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.84 | 1.59 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.84 | 1.59 |
| TRUE | 1/1 | 1/1 | 6.18 | 5.92 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.18 | 5.92 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.18 | 5.92 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.57 | -1.19 |
| TRUE | 1/1 | 1/1 | 10.6 | 10.98 | -1.3 |
| TRUE | 1/1 | 1/1 | 10.6 | 10.98 | -1.3 |
| TRUE | 1/1 | 1/1 | 10.6 | 10.98 | -1.3 |
| TRUE | 1/1 | 1/1 | 10.6 | 10.98 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.22 | 6.67 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.22 | 6.67 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.04 | 7.69 | 1.27 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.04 | 7.69 | 1.27 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.31 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.31 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.44 | 8.05 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.31 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.31 | -1.1 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.31 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.31 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.76 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.78 | 5.76 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.58 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.58 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.58 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.76 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.76 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.76 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.76 | 1.95 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.09 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.09 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.73 | 5.09 | 1.57 |
| TRUE | 1/1 | 1/1 | 10.18 | 10.38 | -1.14 |
| TRUE | 1/1 | 1/1 | 10.18 | 10.38 | -1.14 |
| TRUE | 1/1 | 1/1 | 10.18 | 10.38 | -1.14 |
| TRUE | 1/1 | 1/1 | 8.56 | 7.81 | 1.68 |
| TRUE | 1/1 | 1/1 | 8.56 | 7.81 | 1.68 |
| TRUE | 1/1 | 1/1 | 8.56 | 7.81 | 1.68 |
| TRUE | 1/1 | 1/1 | 4.58 | 4.46 | 1.09 |
| TRUE | 1/1 | 1/1 | 4.58 | 4.46 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.67 | 5.95 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.38 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.38 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.01 | 5.15 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.01 | 5.15 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.01 | 5.15 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.93 | 6.93 | -1 |
| TRUE | 1/1 | 1/1 | 6.93 | 6.93 | -1 |
| TRUE | 1/1 | 1/1 | 8.73 | 9.48 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.73 | 9.48 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.73 | 9.48 | -1.68 |
| TRUE | 1/1 | 1/1 | 8.73 | 9.48 | -1.68 |
| TRUE | 1/1 | 1/1 | 9.89 | 10.54 | -1.56 |
| TRUE | 1/1 | 1/1 | 9.89 | 10.54 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.75 | 7.51 | -1.7 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.38 | 3.34 | 2.06 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.34 | 2.06 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.34 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.43 | 1.32 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.43 | 1.32 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.31 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.31 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.31 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.31 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.31 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.31 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.67 | 8.31 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.23 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.23 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.23 | 1.09 |
| TRUE | 1/1 | 1/1 | 10.95 | 10.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 10.95 | 10.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.88 | 7.96 | 1.9 |
| TRUE | 1/1 | 1/1 | 8.88 | 7.96 | 1.9 |
| TRUE | 1/1 | 1/1 | 8.88 | 7.96 | 1.9 |
| TRUE | 1/1 | 1/1 | 8.88 | 7.96 | 1.9 |
| TRUE | 1/1 | 1/1 | 8.88 | 7.96 | 1.9 |
| TRUE | 1/1 | 1/1 | 4.96 | 4.56 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.96 | 4.56 | 1.32 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.23 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.21 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.21 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.21 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.27 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.27 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.27 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.27 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.27 | 1.18 |
| TRUE | 1/1 | 1/1 | 10.96 | 11.13 | -1.13 |
| TRUE | 1/1 | 1/1 | 10.96 | 11.13 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.45 | 7.2 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.45 | 7.2 | -1.68 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.11 | -1.38 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.11 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.4 | -1.03 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.4 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.35 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.35 | -1.23 |
| TRUE | 1/1 | 1/1 | 9.79 | 10.47 | -1.61 |
| TRUE | 1/1 | 1/1 | 9.79 | 10.47 | -1.61 |
| TRUE | 1/1 | 1/1 | 7.97 | 8.51 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.97 | 8.51 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.97 | 8.51 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.05 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.45 | 8.05 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.68 | 7 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.68 | 7 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.68 | 7 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.67 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.67 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.67 | -1.69 |
| TRUE | 1/1 | 1/1 | 5.91 | 6.67 | -1.69 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.66 | -2.26 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.1 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.1 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.1 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.3 | 6.67 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.76 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.76 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.95 | 6.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.95 | 6.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.95 | 6.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.46 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.46 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.93 | 6.46 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.98 | -1.83 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.98 | -1.83 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.98 | -1.83 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.98 | -1.83 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 4.1 | 3.56 | 1.45 |
| TRUE | 1/1 | 1/1 | 7.52 | 8.03 | -1.43 |
| TRUE | 1/1 | 1/1 | 7.52 | 8.03 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.16 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.16 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.08 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.08 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.11 | 6.08 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.91 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.91 | -1.27 |
| TRUE | 1/1 | 1/1 | 9.49 | 9.68 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.49 | 9.68 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.38 | 8.56 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.38 | 8.56 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.38 | 8.56 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.38 | 8.56 | 1.76 |
| TRUE | 1/1 | 1/1 | 7.73 | 6.66 | 2.1 |
| TRUE | 1/1 | 1/1 | 7.73 | 6.66 | 2.1 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 9.25 | 9.04 | 1.15 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.04 | 1.15 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.04 | 1.15 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.04 | 1.15 |
| TRUE | 1/1 | 1/1 | 4.46 | 4.3 | 1.11 |
| TRUE | 1/1 | 1/1 | 4.46 | 4.3 | 1.11 |
| TRUE | 1/1 | 1/1 | 4.46 | 4.3 | 1.11 |
| TRUE | 1/1 | 1/1 | 3.71 | 3.52 | 1.15 |
| TRUE | 1/1 | 1/1 | 3.71 | 3.52 | 1.15 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 9.1 | 7.72 | 2.61 |
| TRUE | 1/1 | 1/1 | 3.45 | 3.5 | -1.04 |
| TRUE | 1/1 | 1/1 | 3.45 | 3.5 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.07 | -1.4 |
| TRUE | 1/1 | 1/1 | 7.58 | 8.07 | -1.4 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.67 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.67 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.67 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.38 | 4.67 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.87 | -1.86 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.87 | -1.86 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.87 | -1.86 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.87 | -1.86 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.87 | -1.86 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.87 | -1.86 |
| TRUE | 1/1 | 1/1 | 5.8 | 5.91 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.8 | 5.91 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.8 | 5.91 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.92 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.92 | -1.56 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.69 | 5.35 | 2.52 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.45 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.45 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.6 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.94 | 6.6 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.21 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.21 | -1.59 |
| TRUE | 1/1 | 1/1 | 9.17 | 8.2 | 1.96 |
| TRUE | 1/1 | 1/1 | 9.17 | 8.2 | 1.96 |
| TRUE | 1/1 | 1/1 | 9.17 | 8.2 | 1.96 |
| TRUE | 1/1 | 1/1 | 9.17 | 8.2 | 1.96 |
| TRUE | 1/1 | 1/1 | 9.17 | 8.2 | 1.96 |
| TRUE | 1/1 | 1/1 | 7.62 | 7.71 | -1.06 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.62 | 7.71 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.01 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.62 | 5.01 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.85 | 7.84 | 1 |
| TRUE | 1/1 | 1/1 | 7.85 | 7.84 | 1 |
| TRUE | 1/1 | 1/1 | 7.85 | 7.84 | 1 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 8.33 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 8.38 | 5.93 | 5.49 |
| TRUE | 1/1 | 1/1 | 12.59 | 12.69 | -1.07 |
| TRUE | 1/1 | 1/1 | 12.59 | 12.69 | -1.07 |
| TRUE | 1/1 | 1/1 | 12.59 | 12.69 | -1.07 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.22 | 7.03 | 2.29 |
| TRUE | 1/1 | 1/1 | 8.52 | 8.64 | -1.09 |
| TRUE | 1/1 | 1/1 | 8.52 | 8.64 | -1.09 |
| TRUE | 1/1 | 1/1 | 8.52 | 8.64 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.71 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.71 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.71 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.71 | 1.15 |
| TRUE | 1/1 | 1/1 | 10.25 | 7.68 | 5.94 |
| TRUE | 1/1 | 1/1 | 10.25 | 7.68 | 5.94 |
| TRUE | 1/1 | 1/1 | 10.25 | 7.68 | 5.94 |
| TRUE | 1/1 | 1/1 | 10.25 | 7.68 | 5.94 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.52 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.52 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.52 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.49 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.49 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.3 | 6.49 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.34 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.34 | -1.43 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.87 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.87 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.87 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.51 | 8.04 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.51 | 8.04 | -1.45 |
| TRUE | 1/1 | 1/1 | 12.38 | 12.54 | -1.12 |
| TRUE | 1/1 | 1/1 | 12.38 | 12.54 | -1.12 |
| TRUE | 1/1 | 1/1 | 12.38 | 12.54 | -1.12 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 6.08 | 5.57 | 1.43 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.57 | 1.43 |
| TRUE | 1/1 | 1/1 | 6.08 | 5.57 | 1.43 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.3 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.7 | 7.3 | -1.52 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.94 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.94 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.94 | -1.03 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.6 | -1.11 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.6 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.05 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.32 | 6.05 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.57 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.57 | 1.02 |
| TRUE | 1/1 | 1/1 | 9.65 | 9.76 | -1.08 |
| TRUE | 1/1 | 1/1 | 9.65 | 9.76 | -1.08 |
| TRUE | 1/1 | 1/1 | 4.21 | 4.09 | 1.08 |
| TRUE | 1/1 | 1/1 | 4.21 | 4.09 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.74 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.74 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.74 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.74 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.74 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.67 | 4.91 | 1.7 |
| TRUE | 1/1 | 1/1 | 5.67 | 4.91 | 1.7 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.43 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.43 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.43 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.43 | -1.47 |
| TRUE | 1/1 | 1/1 | 6.88 | 7.43 | -1.47 |
| TRUE | 1/1 | 1/1 | 8.07 | 7.85 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.07 | 7.85 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.07 | 7.85 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.07 | 7.85 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.07 | 7.85 | 1.16 |
| TRUE | 1/1 | 1/1 | 6.92 | 7.37 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.92 | 7.37 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.92 | 7.37 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.92 | 7.37 | -1.36 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.72 | 1.21 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.72 | 1.21 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.72 | 1.21 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.72 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.63 | 4.82 | 3.5 |
| TRUE | 1/1 | 1/1 | 6.63 | 4.82 | 3.5 |
| TRUE | 1/1 | 1/1 | 6.63 | 4.82 | 3.5 |
| TRUE | 1/1 | 1/1 | 6.63 | 4.82 | 3.5 |
| TRUE | 1/1 | 1/1 | 6.63 | 4.82 | 3.5 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.49 |
| TRUE | 1/1 | 1/1 | 5.37 | 5.95 | -1.49 |
| TRUE | 1/1 | 1/1 | 4.95 | 4.69 | 1.19 |
| TRUE | 1/1 | 1/1 | 4.95 | 4.69 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.85 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.85 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.85 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.85 | 1.08 |
| TRUE | 1/1 | 1/1 | 3.38 | 3.75 | -1.29 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 3.38 | 3.75 | -1.29 |
| TRUE | 1/1 | 1/1 | 4.83 | 4 | 1.78 |
| TRUE | 1/1 | 1/1 | 4.83 | 4 | 1.78 |
| TRUE | 1/1 | 1/1 | 4.83 | 4 | 1.78 |
| TRUE | 1/1 | 1/1 | 4.83 | 4 | 1.78 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.45 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.45 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.45 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.45 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.45 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.45 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.02 | 7.91 | -1.86 |
| TRUE | 1/1 | 1/1 | 7.02 | 7.91 | -1.86 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.92 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.92 | 1.12 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.03 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.54 | 8.03 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.54 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.97 | 5.33 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.97 | 5.33 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.97 | 5.33 | 1.57 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.39 | 3.38 |
| TRUE | 1/1 | 1/1 | 9.96 | 10.25 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.96 | 10.25 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.96 | 10.25 | -1.22 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.82 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.82 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.82 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.06 | 8.82 | -1.7 |
| TRUE | 1/1 | 1/1 | 9.63 | 8.01 | 3.09 |
| TRUE | 1/1 | 1/1 | 9.63 | 8.01 | 3.09 |
| TRUE | 1/1 | 1/1 | 9.63 | 8.01 | 3.09 |
| TRUE | 1/1 | 1/1 | 9.63 | 8.01 | 3.09 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.97 | -1.65 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.97 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.78 | -1 |
| TRUE | 1/1 | 1/1 | 6.78 | 6.78 | -1 |
| TRUE | 1/1 | 1/1 | 9.61 | 9.98 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.61 | 9.98 | -1.29 |
| TRUE | 1/1 | 1/1 | 10.1 | 10.71 | -1.52 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.59 | 5.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 3.61 | 3.18 | 1.35 |
| TRUE | 1/1 | 1/1 | 3.61 | 3.18 | 1.35 |
| TRUE | 1/1 | 1/1 | 3.61 | 3.18 | 1.35 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.18 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.18 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.18 | -1.28 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.75 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.75 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.75 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.75 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.75 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.75 | 2.44 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.58 | 7.89 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 9.19 | 7.18 | 4.03 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.56 | -1.87 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.56 | -1.87 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.56 | -1.87 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.56 | -1.87 |
| TRUE | 1/1 | 1/1 | 8.66 | 9.56 | -1.87 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.26 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.76 | 6.26 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.49 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.01 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.01 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.01 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.91 | 7.01 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.51 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.51 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.01 | 5.67 | -1.57 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.01 | 5.67 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.01 | 5.67 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.01 | 5.67 | -1.57 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.94 | 8.32 | 1.54 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.72 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.72 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.72 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.76 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.76 | -1.06 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.54 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.54 | 1.04 |
| TRUE | 1/1 | 1/1 | 3.59 | 3.54 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.12 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.12 | -1.23 |
| TRUE | 1/1 | 1/1 | 10.49 | 11.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 10.49 | 11.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 10.49 | 11.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 10.49 | 11.24 | -1.67 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.71 | -1.37 |
| TRUE | 1/1 | 1/1 | 9.25 | 9.71 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.31 | -1.25 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.31 | -1.25 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.31 | -1.25 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.31 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.98 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.61 | 6.98 | -1.29 |
| TRUE | 1/1 | 1/1 | 10.02 | 10.22 | -1.15 |
| TRUE | 1/1 | 1/1 | 10.02 | 10.22 | -1.15 |
| TRUE | 1/1 | 1/1 | 10.02 | 10.22 | -1.15 |
| TRUE | 1/1 | 1/1 | 10.02 | 10.22 | -1.15 |
| TRUE | 1/1 | 1/1 | 11.31 | 11.3 | 1.01 |
| TRUE | 1/1 | 1/1 | 11.31 | 11.3 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.38 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.38 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.38 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.38 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.42 | 7.17 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.93 | -1.61 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.25 | 8.93 | -1.61 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.93 | -1.61 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.77 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.77 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.77 | -1.75 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.77 | -1.75 |
| TRUE | 1/1 | 1/1 | 8.27 | 7.93 | 1.27 |
| TRUE | 1/1 | 1/1 | 8.27 | 7.93 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.48 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.1 | 6.48 | -1.3 |
| TRUE | 1/1 | 1/1 | 10.4 | 8.27 | 4.4 |
| TRUE | 1/1 | 1/1 | 10.4 | 8.27 | 4.4 |
| TRUE | 1/1 | 1/1 | 10.4 | 8.27 | 4.4 |
| TRUE | 1/1 | 1/1 | 10.4 | 8.27 | 4.4 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.05 | -1.01 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.05 | -1.01 |
| TRUE | 1/1 | 1/1 | 9.35 | 10.02 | -1.59 |
| TRUE | 1/1 | 1/1 | 9.35 | 10.02 | -1.59 |
| TRUE | 1/1 | 1/1 | 9.35 | 10.02 | -1.59 |
| TRUE | 1/1 | 1/1 | 9.35 | 10.02 | -1.59 |
| TRUE | 1/1 | 1/1 | 5.25 | 5.38 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.25 | 5.38 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.25 | 5.38 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.4 | 5.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.4 | 5.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.4 | 5.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.43 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.43 | -1.34 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.43 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.5 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.95 | -2.07 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.95 | -2.07 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.52 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.52 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.52 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.52 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.51 | 7.52 | -1.01 |
| TRUE | 1/1 | 1/1 | 5.29 | 5.9 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.29 | 5.9 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.29 | 5.9 | -1.52 |
| TRUE | 1/1 | 1/1 | 10.71 | 9.06 | 3.14 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 10.71 | 9.06 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.71 | 9.06 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.71 | 9.06 | 3.14 |
| TRUE | 1/1 | 1/1 | 4.87 | 5.85 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.87 | 5.85 | -1.97 |
| TRUE | 1/1 | 1/1 | 4.91 | 5 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.91 | 5 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.91 | 5 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.91 | 5 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.91 | 5 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.93 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.93 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.8 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.8 | -1.08 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.8 | -1.08 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 10.06 | 8.26 | 3.49 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.47 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.47 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.47 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.47 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.08 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.08 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.08 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.04 | 5.08 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.86 | 8.33 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.86 | 8.33 | -1.39 |
| TRUE | 1/1 | 1/1 | 8.8 | 9.19 | -1.31 |
| TRUE | 1/1 | 1/1 | 8.8 | 9.19 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.73 | -1.49 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.73 | -1.49 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.73 | -1.49 |
| TRUE | 1/1 | 1/1 | 4.86 | 4.74 | 1.09 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.86 | 4.74 | 1.09 |
| TRUE | 1/1 | 1/1 | 4.86 | 4.74 | 1.09 |
| TRUE | 1/1 | 1/1 | 4.86 | 4.74 | 1.09 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.19 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.41 | 7.63 | -1.16 |
| TRUE | 1/1 | 1/1 | 8.55 | 9.18 | -1.56 |
| TRUE | 1/1 | 1/1 | 8.55 | 9.18 | -1.56 |
| TRUE | 1/1 | 1/1 | 8.55 | 9.18 | -1.56 |
| TRUE | 1/1 | 1/1 | 8.3 | 8.72 | -1.34 |
| TRUE | 1/1 | 1/1 | 8.3 | 8.72 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.16 | 4.18 | -1.01 |
| TRUE | 1/1 | 1/1 | 4.16 | 4.18 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.83 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.83 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.83 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.83 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.8 | 7.23 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.8 | 7.23 | -1.35 |
| TRUE | 1/1 | 1/1 | 6.8 | 7.23 | -1.35 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.08 | -1.83 |
| TRUE | 1/1 | 1/1 | 7.2 | 8.08 | -1.83 |
| TRUE | 1/1 | 1/1 | 12.02 | 11.94 | 1.06 |
| TRUE | 1/1 | 1/1 | 12.02 | 11.94 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.42 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.42 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.42 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.01 | 6.42 | 1.51 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.71 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.71 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.71 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.71 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.09 | 6.71 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 9.82 | 10.61 | -1.73 |
| TRUE | 1/1 | 1/1 | 9.82 | 10.61 | -1.73 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.28 | -1.39 |
| TRUE | 1/1 | 1/1 | 7.81 | 8.28 | -1.39 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.12 | 1.19 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.12 | 1.19 |
| TRUE | 1/1 | 1/1 | 9.36 | 9.12 | 1.19 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.45 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.45 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.45 | 1.06 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.45 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.06 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.06 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.06 | 1.03 |
| TRUE | 1/1 | 1/1 | 9.34 | 9.85 | -1.42 |
| TRUE | 1/1 | 1/1 | 9.34 | 9.85 | -1.42 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 9.34 | 9.85 | -1.42 |
| TRUE | 1/1 | 1/1 | 8.81 | 9.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 8.81 | 9.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 8.81 | 9.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 8.81 | 9.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.25 | 3.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.25 | 3.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.25 | 3.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 4.25 | 3.7 | 1.46 |
| TRUE | 1/1 | 1/1 | 7.38 | 8.19 | -1.76 |
| TRUE | 1/1 | 1/1 | 7.38 | 8.19 | -1.76 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 12.26 | 12.27 | -1 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 8.75 | 4.46 | 19.57 |
| TRUE | 1/1 | 1/1 | 7.22 | 7.16 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.22 | 7.16 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.58 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.58 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.01 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.01 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.01 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.01 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.01 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.37 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.77 | -1.06 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 7.69 | 7.77 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.77 | -1.06 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.64 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.64 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.04 | 8.64 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.72 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.81 | 5.7 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.81 | 5.7 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.11 | 6.88 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.11 | 6.88 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.11 | 6.88 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.2 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.2 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.2 | -1.32 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.55 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.91 | 8.06 | -2.22 |
| TRUE | 1/1 | 1/1 | 6.91 | 8.06 | -2.22 |
| TRUE | 1/1 | 1/1 | 6.91 | 8.06 | -2.22 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 12.93 | 7.66 | 38.71 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.91 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.91 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.37 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.37 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.37 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.37 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.74 | -1.4 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.74 | -1.4 |
| TRUE | 1/1 | 1/1 | 8.25 | 8.74 | -1.4 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.41 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.15 | 7.41 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.8 | 8.09 | -1.22 |
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |
| TRUE | 1/1 | 1/1 | 8.31 | 5.71 | 6.07 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 11.93 | 12.42 | -1.41 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.98 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.98 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.98 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.98 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.98 | -1.31 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.55 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.02 | 5.47 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.02 | 5.47 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.52 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.62 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.62 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.62 | -1.64 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.62 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.97 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.43 | 4.97 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.06 | 6.65 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.24 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.24 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.24 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.63 | 6.24 | -1.52 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.93 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.93 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.15 | 6.98 | 1.13 |
| TRUE | 1/1 | 1/1 | 7.15 | 6.98 | 1.13 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 9.15 | 6.87 | 4.85 |
| TRUE | 1/1 | 1/1 | 9.15 | 6.87 | 4.85 |
| TRUE | 1/1 | 1/1 | 9.15 | 6.87 | 4.85 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.24 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.12 | 6.24 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.99 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.73 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.39 | 6.73 | -1.27 |
| TRUE | 1/1 | 1/1 | 5.47 | 6.2 | -1.66 |
| TRUE | 1/1 | 1/1 | 5.47 | 6.2 | -1.66 |
| TRUE | 1/1 | 1/1 | 5.47 | 6.2 | -1.66 |
| TRUE | 1/1 | 1/1 | 5.47 | 6.2 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.54 | 5.6 | 1.92 |
| TRUE | 1/1 | 1/1 | 6.54 | 5.6 | 1.92 |
| TRUE | 1/1 | 1/1 | 6.54 | 5.6 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 7.47 | 6.7 | 1.7 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.29 |
| TRUE | 1/1 | 1/1 | 9.18 | 9.26 | -1.06 |
| TRUE | 1/1 | 1/1 | 9.18 | 9.26 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.8 | 6.26 | -1.38 |
| TRUE | 1/1 | 1/1 | 5.06 | 4.68 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.06 | 4.68 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.06 | 4.68 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.06 | 4.68 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.06 | 4.68 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.06 | 4.68 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.72 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.72 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.76 | -1.4 |
| TRUE | 1/1 | 1/1 | 6.28 | 6.76 | -1.4 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.71 | 6.09 | 3.06 |
| TRUE | 1/1 | 1/1 | 7.74 | 7.93 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.74 | 7.93 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.74 | 7.93 | -1.14 |
| TRUE | 1/1 | 1/1 | 8.16 | 7 | 2.23 |
| TRUE | 1/1 | 1/1 | 8.16 | 7 | 2.23 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.61 | -1.27 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.62 | 6.55 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.62 | 6.55 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.62 | 6.55 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.62 | 6.55 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.02 | 4.32 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.02 | 4.32 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.98 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.98 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.44 | 6.82 | 1.54 |
| TRUE | 1/1 | 1/1 | 7.44 | 6.82 | 1.54 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.83 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.83 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.83 | 1.15 |
| TRUE | 1/1 | 1/1 | 5.74 | 6.39 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.74 | 6.39 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.74 | 6.39 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.8 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.17 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.17 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.17 | -1.42 |
| TRUE | 1/1 | 1/1 | 6.66 | 7.17 | -1.42 |
| TRUE | 1/1 | 1/1 | 5.99 | 4.7 | 2.44 |
| TRUE | 1/1 | 1/1 | 5.99 | 4.7 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.43 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.25 | 7.43 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.62 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.62 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.62 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.62 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.62 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.64 | 7.62 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.76 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.76 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.76 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.83 | 7.76 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.97 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.57 | 7.97 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.78 | 8.07 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.78 | 8.07 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.78 | 8.07 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.34 | -1.44 |
| TRUE | 1/1 | 1/1 | 6.81 | 7.34 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.32 | -1.7 |
| TRUE | 1/1 | 1/1 | 5.56 | 6.32 | -1.7 |
| TRUE | 1/1 | 1/1 | 3.75 | 3.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 3.75 | 3.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 3.75 | 3.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 3.75 | 3.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 3.75 | 3.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.8 | 5.8 | 2 |
| TRUE | 1/1 | 1/1 | 6.8 | 5.8 | 2 |
| TRUE | 1/1 | 1/1 | 6.8 | 5.8 | 2 |
| TRUE | 1/1 | 1/1 | 6.8 | 5.8 | 2 |
| TRUE | 1/1 | 1/1 | 6.8 | 5.8 | 2 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.8 | 5.8 | 2 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.14 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.14 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.53 | 8.14 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.13 | 6.98 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.13 | 6.98 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.62 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.62 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.62 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.62 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.45 | 5.43 | 1.01 |
| TRUE | 1/1 | 1/1 | 10.44 | 10.53 | -1.06 |
| TRUE | 1/1 | 1/1 | 10.44 | 10.53 | -1.06 |
| TRUE | 1/1 | 1/1 | 10.44 | 10.53 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.19 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.19 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.19 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.37 | 4.2 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.37 | 4.2 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.97 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.97 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.97 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.97 | -1.36 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.02 | 1.67 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.02 | 1.67 |
| TRUE | 1/1 | 1/1 | 5.84 | 6.06 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.84 | 6.06 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.84 | 6.06 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.84 | 6.06 | -1.17 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 5.11 | 2.99 | 4.35 |
| TRUE | 1/1 | 1/1 | 3.65 | 4.3 | -1.57 |
| TRUE | 1/1 | 1/1 | 3.65 | 4.3 | -1.57 |
| TRUE | 1/1 | 1/1 | 3.65 | 4.3 | -1.57 |
| TRUE | 1/1 | 1/1 | 3.65 | 4.3 | -1.57 |
| TRUE | 1/1 | 1/1 | 3.65 | 4.3 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.81 | 6.08 | -1.2 |
| TRUE | 1/1 | 1/1 | 5.81 | 6.08 | -1.2 |
| TRUE | 1/1 | 1/1 | 9.37 | 9.83 | -1.38 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.45 | 5.13 | 5 |
| TRUE | 1/1 | 1/1 | 7.45 | 5.13 | 5 |
| TRUE | 1/1 | 1/1 | 7.45 | 5.13 | 5 |
| TRUE | 1/1 | 1/1 | 6.54 | 7.22 | -1.61 |
| TRUE | 1/1 | 1/1 | 6.54 | 7.22 | -1.61 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.89 | -1.59 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.89 | -1.59 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.89 | -1.59 |
| TRUE | 1/1 | 1/1 | 10.22 | 10.89 | -1.59 |
| TRUE | 1/1 | 1/1 | 3.5 | 3.75 | -1.19 |
| TRUE | 1/1 | 1/1 | 3.5 | 3.75 | -1.19 |
| TRUE | 1/1 | 1/1 | 3.5 | 3.75 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.59 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.59 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.59 | -1.1 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.69 | 1.03 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.69 | 1.03 |
| TRUE | 1/1 | 1/1 | 4.73 | 4.69 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.21 | 2.1 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.21 | 2.1 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.21 | 2.1 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.21 | 2.1 |
| TRUE | 1/1 | 1/1 | 5.29 | 4.21 | 2.1 |
| TRUE | 1/1 | 1/1 | 6.15 | 5.51 | 1.57 |
| TRUE | 1/1 | 1/1 | 6.15 | 5.51 | 1.57 |
| TRUE | 1/1 | 1/1 | 6.15 | 5.51 | 1.57 |
| TRUE | 1/1 | 1/1 | 6.15 | 5.51 | 1.57 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.58 | -1.48 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.58 | -1.48 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.58 | -1.48 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.58 | -1.48 |
| TRUE | 1/1 | 1/1 | 10.95 | 9.6 | 2.54 |
| TRUE | 1/1 | 1/1 | 10.95 | 9.6 | 2.54 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.04 | -1.01 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.04 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.96 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.96 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.54 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.54 | -1.91 |
| TRUE | 1/1 | 1/1 | 7.6 | 8.54 | -1.91 |
| TRUE | 1/1 | 1/1 | 8.83 | 8.98 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.83 | 8.98 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.83 | 8.98 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.6 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.6 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.52 | -1.71 |
| TRUE | 1/1 | 1/1 | 7.74 | 8.52 | -1.71 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.8 | 1.05 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.8 | 1.05 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.11 | 1.54 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.11 | 1.54 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.11 | -1.16 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.11 | -1.16 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.11 | -1.16 |
| TRUE | 1/1 | 1/1 | 5.89 | 6.11 | -1.16 |
| TRUE | 1/1 | 1/1 | 4.6 | 4.5 | 1.07 |
| TRUE | 1/1 | 1/1 | 4.6 | 4.5 | 1.07 |
| TRUE | 1/1 | 1/1 | 4.6 | 4.5 | 1.07 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.22 | 5.75 | 2.77 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.86 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.08 | 1.5 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.42 | 4.69 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.16 | 5.27 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.18 | 1.18 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.18 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.86 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.86 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.86 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.86 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.86 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.24 | 6.94 | 1.24 |
| TRUE | 1/1 | 1/1 | 7.24 | 6.94 | 1.24 |
| TRUE | 1/1 | 1/1 | 7.24 | 6.94 | 1.24 |
| TRUE | 1/1 | 1/1 | 8.56 | 8.85 | -1.22 |
| TRUE | 1/1 | 1/1 | 8.56 | 8.85 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.17 | 7.08 | -1.87 |
| TRUE | 1/1 | 1/1 | 6.17 | 7.08 | -1.87 |
| TRUE | 1/1 | 1/1 | 6.17 | 7.08 | -1.87 |
| TRUE | 1/1 | 1/1 | 6.17 | 7.08 | -1.87 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.21 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.21 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.96 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.96 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.96 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.26 | 6.96 | -1.62 |
| TRUE | 1/1 | 1/1 | 6.81 | 6.98 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.81 | 6.98 | -1.13 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.84 | -1.12 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.84 | -1.12 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.84 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.09 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.73 | 7.09 | -1.28 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 9.4 | 7.84 | 2.95 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.11 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.11 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.11 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.39 | 6.11 | -1.65 |
| TRUE | 1/1 | 1/1 | 5.99 | 6.2 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.99 | 6.2 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.72 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.68 | 4.72 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.95 | 1.18 |
| TRUE | 1/1 | 1/1 | 10.28 | 9.92 | 1.29 |
| TRUE | 1/1 | 1/1 | 10.28 | 9.92 | 1.29 |
| TRUE | 1/1 | 1/1 | 10.28 | 9.92 | 1.29 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.48 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.48 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.48 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.48 | 1.07 |
| TRUE | 1/1 | 1/1 | 5.58 | 5.48 | 1.07 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.46 | 1.4 |
| TRUE | 1/1 | 1/1 | 8.53 | 8.89 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.53 | 8.89 | -1.29 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.41 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.41 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.41 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.41 | 1.1 |
| TRUE | 1/1 | 1/1 | 8.51 | 9.13 | -1.54 |
| TRUE | 1/1 | 1/1 | 8.51 | 9.13 | -1.54 |
| TRUE | 1/1 | 1/1 | 10.99 | 11.38 | -1.31 |
| TRUE | 1/1 | 1/1 | 10.99 | 11.38 | -1.31 |
| TRUE | 1/1 | 1/1 | 10.99 | 11.38 | -1.31 |
| TRUE | 1/1 | 1/1 | 13.06 | 13 | 1.05 |
| TRUE | 1/1 | 1/1 | 13.06 | 13 | 1.05 |
| TRUE | 1/1 | 1/1 | 13.06 | 13 | 1.05 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.75 | 6.37 | -1.54 |
| TRUE | 1/1 | 1/1 | 5.75 | 6.37 | -1.54 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.25 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.25 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.41 | 4.8 | -1.31 |
| TRUE | 1/1 | 1/1 | 4.41 | 4.8 | -1.31 |
| TRUE | 1/1 | 1/1 | 4.41 | 4.8 | -1.31 |
| TRUE | 1/1 | 1/1 | 7.95 | 7.63 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.95 | 7.63 | 1.25 |
| TRUE | 1/1 | 1/1 | 5.08 | 6.03 | -1.94 |
| TRUE | 1/1 | 1/1 | 5.08 | 6.03 | -1.94 |
| TRUE | 1/1 | 1/1 | 5.08 | 6.03 | -1.94 |
| TRUE | 1/1 | 1/1 | 4.15 | 4.47 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.15 | 4.47 | -1.25 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.36 | 5.61 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.93 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.64 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.64 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.03 | 6.64 | -1.53 |
| TRUE | 1/1 | 1/1 | 10.93 | 11.1 | -1.13 |
| TRUE | 1/1 | 1/1 | 10.93 | 11.1 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.12 | 1 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.12 | 1 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.12 | 1 |
| TRUE | 1/1 | 1/1 | 6.13 | 6.12 | 1 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.29 | 6.56 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.54 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.54 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.54 | -1.47 |
| TRUE | 1/1 | 1/1 | 5.98 | 6.54 | -1.47 |
| TRUE | 1/1 | 1/1 | 9.95 | 10.13 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.95 | 10.13 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.95 | 10.13 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.95 | 10.13 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.95 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.95 | -1.52 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.17 | -1.09 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.17 | -1.09 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 8.05 | 8.17 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.84 | -1.58 |
| TRUE | 1/1 | 1/1 | 7.17 | 7.84 | -1.58 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 4.3 | 4.03 |
| TRUE | 1/1 | 1/1 | 10.24 | 10.1 | 1.1 |
| TRUE | 1/1 | 1/1 | 10.24 | 10.1 | 1.1 |
| TRUE | 1/1 | 1/1 | 10.24 | 10.1 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.63 | 1.33 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.63 | 1.33 |
| TRUE | 1/1 | 1/1 | 6.04 | 5.63 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.05 | 5.15 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.05 | 5.15 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.05 | 5.15 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.05 | 5.15 | -1.07 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.77 | -1.53 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.77 | -1.53 |
| TRUE | 1/1 | 1/1 | 9.15 | 9.77 | -1.53 |
| TRUE | 1/1 | 1/1 | 7.86 | 7.26 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.86 | 7.26 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.86 | 7.26 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.86 | 7.26 | 1.52 |
| TRUE | 1/1 | 1/1 | 7.86 | 7.26 | 1.52 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.3 | 1.48 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.3 | 1.48 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.3 | 1.48 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.3 | 1.48 |
| TRUE | 1/1 | 1/1 | 6.87 | 6.3 | 1.48 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.33 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.33 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.33 | -1.48 |
| TRUE | 1/1 | 1/1 | 6.76 | 7.33 | -1.48 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.79 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.7 | 5.79 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.15 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.15 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.11 | 4.15 | -1.03 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 3.68 | 3.7 | -1.01 |
| TRUE | 1/1 | 1/1 | 3.68 | 3.7 | -1.01 |
| TRUE | 1/1 | 1/1 | 3.68 | 3.7 | -1.01 |
| TRUE | 1/1 | 1/1 | 3.68 | 3.7 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.62 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.39 | 1.3 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.39 | 1.3 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.39 | 1.3 |
| TRUE | 1/1 | 1/1 | 9.85 | 5.98 | 14.65 |
| TRUE | 1/1 | 1/1 | 9.85 | 5.98 | 14.65 |
| TRUE | 1/1 | 1/1 | 9.85 | 5.98 | 14.65 |
| TRUE | 1/1 | 1/1 | 9.85 | 5.98 | 14.65 |
| TRUE | 1/1 | 1/1 | 9.85 | 5.98 | 14.65 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 9.84 | 7.54 | 4.9 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.61 | -1.35 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.61 | -1.35 |
| TRUE | 1/1 | 1/1 | 8.17 | 8.61 | -1.35 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 9.17 | -1.51 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.71 | 1.59 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.71 | 1.59 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.71 | 1.59 |
| TRUE | 1/1 | 1/1 | 4.81 | 4.14 | 1.6 |
| TRUE | 1/1 | 1/1 | 4.81 | 4.14 | 1.6 |
| TRUE | 1/1 | 1/1 | 4.81 | 4.14 | 1.6 |
| TRUE | 1/1 | 1/1 | 9.11 | 9.08 | 1.02 |
| TRUE | 1/1 | 1/1 | 9.11 | 9.08 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.73 | 8.62 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.73 | 8.62 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.16 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.16 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.21 | 5.16 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.84 | -1.52 |
| TRUE | 1/1 | 1/1 | 6.23 | 6.84 | -1.52 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 8.5 | 7.51 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.5 | 7.51 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.5 | 7.51 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.5 | 7.51 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.5 | 7.51 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.47 | 1.35 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.47 | 1.35 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.47 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.91 | 8.24 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.91 | 8.24 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.91 | 8.24 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.68 | -1.41 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.68 | -1.41 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.68 | -1.41 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.68 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.58 | 7.95 | -1.3 |
| TRUE | 1/1 | 1/1 | 7.58 | 7.95 | -1.3 |
| TRUE | 1/1 | 1/1 | 7.22 | 7.55 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.22 | 7.55 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.22 | 7.55 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.87 | 4.99 | -1.09 |
| TRUE | 1/1 | 1/1 | 4.87 | 4.99 | -1.09 |
| TRUE | 1/1 | 1/1 | 10.33 | 9.78 | 1.47 |
| TRUE | 1/1 | 1/1 | 10.33 | 9.78 | 1.47 |
| TRUE | 1/1 | 1/1 | 10.33 | 9.78 | 1.47 |
| TRUE | 1/1 | 1/1 | 6.86 | 7.12 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.86 | 7.12 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.27 | -1.25 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.27 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.42 | 1.48 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.42 | 1.48 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.6 | 5.6 | 4.01 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.66 | 6.09 | 2.97 |
| TRUE | 1/1 | 1/1 | 7.75 | 8.34 | -1.5 |
| TRUE | 1/1 | 1/1 | 7.75 | 8.34 | -1.5 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.21 | 5.42 | 3.46 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.42 | 3.46 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.42 | 3.46 |
| TRUE | 1/1 | 1/1 | 7.21 | 5.42 | 3.46 |
| TRUE | 1/1 | 1/1 | 6.92 | 7.23 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.92 | 7.23 | -1.24 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 6.46 | 7.06 | -1.53 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.02 | 1.44 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.02 | 1.44 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.07 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.07 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.07 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.07 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.07 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.77 | 7.07 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.4 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.4 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.4 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.4 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.4 | -1.17 |
| TRUE | 1/1 | 1/1 | 8.41 | 8.86 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.41 | 8.86 | -1.37 |
| TRUE | 1/1 | 1/1 | 8.41 | 8.86 | -1.37 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.14 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.14 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.14 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.95 | 5.98 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.28 | 2.71 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.28 | 2.71 |
| TRUE | 1/1 | 1/1 | 7.72 | 6.28 | 2.71 |
| TRUE | 1/1 | 1/1 | 8.33 | 7.96 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.33 | 7.96 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.33 | 7.96 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.33 | 7.96 | 1.28 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.01 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.01 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.01 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.98 | 8.01 | -1.02 |
| TRUE | 1/1 | 1/1 | 3.32 | 2.85 | 1.38 |
| TRUE | 1/1 | 1/1 | 3.32 | 2.85 | 1.38 |
| TRUE | 1/1 | 1/1 | 3.32 | 2.85 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.08 | 2.51 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.08 | 2.51 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.08 | 2.51 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.08 | 2.51 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.08 | 2.51 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.08 | 2.51 |
| TRUE | 1/1 | 1/1 | 9.04 | 9.4 | -1.28 |
| TRUE | 1/1 | 1/1 | 9.04 | 9.4 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.04 | -1.17 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.82 | 7.04 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.04 | -1.17 |
| TRUE | 1/1 | 1/1 | 6.82 | 7.04 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.76 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.76 | -1.63 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.76 | -1.63 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.25 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.25 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.05 | 8.25 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.19 | 1.82 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.19 | 1.82 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.19 | 1.82 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.19 | 1.82 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.19 | 1.82 |
| TRUE | 1/1 | 1/1 | 8.06 | 7.19 | 1.82 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.67 | 2.45 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.67 | 2.45 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.67 | 2.45 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.67 | 2.45 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.67 | 2.45 |
| TRUE | 1/1 | 1/1 | 8.01 | 8.61 | -1.51 |
| TRUE | 1/1 | 1/1 | 8.01 | 8.61 | -1.51 |
| TRUE | 1/1 | 1/1 | 6.85 | 6.85 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.85 | 6.85 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.85 | 6.85 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.85 | 6.85 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.85 | 6.85 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.51 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.51 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.51 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.16 | 4.05 | 2.15 |
| TRUE | 1/1 | 1/1 | 5.16 | 4.05 | 2.15 |
| TRUE | 1/1 | 1/1 | 5.16 | 4.05 | 2.15 |
| TRUE | 1/1 | 1/1 | 5.23 | 5.75 | -1.44 |
| TRUE | 1/1 | 1/1 | 5.23 | 5.75 | -1.44 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.18 | -1.29 |
| TRUE | 1/1 | 1/1 | 4.81 | 5.18 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.5 | 8.1 | -1.52 |
| TRUE | 1/1 | 1/1 | 7.5 | 8.1 | -1.52 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 4.42 | 4.04 | 1.3 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.62 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.62 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.62 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.99 | 7.62 | -1.54 |
| TRUE | 1/1 | 1/1 | 9.38 | 10 | -1.54 |
| TRUE | 1/1 | 1/1 | 9.38 | 10 | -1.54 |
| TRUE | 1/1 | 1/1 | 9.38 | 10 | -1.54 |
| TRUE | 1/1 | 1/1 | 9.38 | 10 | -1.54 |
| TRUE | 1/1 | 1/1 | 9.38 | 10 | -1.54 |
| TRUE | 1/1 | 1/1 | 4.7 | 5.12 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.7 | 5.12 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.7 | 5.12 | -1.34 |
| TRUE | 1/1 | 1/1 | 4.7 | 5.12 | -1.34 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.45 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.45 | 1.17 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.14 | 8.18 | -1.03 |
| TRUE | 1/1 | 1/1 | 8.14 | 8.18 | -1.03 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.29 | -1.21 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.29 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.41 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.41 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.1 | 1.48 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.1 | 1.48 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.68 | 5.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.64 | 9.03 | -1.31 |
| TRUE | 1/1 | 1/1 | 8.64 | 9.03 | -1.31 |
| TRUE | 1/1 | 1/1 | 3.29 | 3.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 3.29 | 3.57 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.01 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.01 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.01 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.01 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.04 | 6.01 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.54 | 7.06 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.54 | 7.06 | -1.43 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.83 | 1.1 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.83 | 1.1 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.83 | 1.1 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.83 | 1.1 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.92 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.92 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.92 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.92 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.89 | 4.92 | -1.02 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.24 | 1.05 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.24 | 1.05 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.24 | 1.05 |
| TRUE | 1/1 | 1/1 | 4.31 | 4.24 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.64 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.64 | -1.13 |
| TRUE | 1/1 | 1/1 | 8.46 | 8.64 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.02 | 8.75 | 1.2 |
| TRUE | 1/1 | 1/1 | 9.02 | 8.75 | 1.2 |
| TRUE | 1/1 | 1/1 | 9.02 | 8.75 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 8.67 | 7.28 | 2.62 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.04 | 1.09 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.04 | 1.09 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.28 | 1.17 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.7 | 6.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 5.7 | 6.06 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.55 | 7.04 | -1.4 |
| TRUE | 1/1 | 1/1 | 6.55 | 7.04 | -1.4 |
| TRUE | 1/1 | 1/1 | 3.46 | 3.33 | 1.1 |
| TRUE | 1/1 | 1/1 | 3.46 | 3.33 | 1.1 |
| TRUE | 1/1 | 1/1 | 8.24 | 8.61 | -1.3 |
| TRUE | 1/1 | 1/1 | 8.24 | 8.61 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.65 | -1.06 |
| TRUE | 1/1 | 1/1 | 4.69 | 4.84 | -1.11 |
| TRUE | 1/1 | 1/1 | 4.69 | 4.84 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.84 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.93 | -1.06 |
| TRUE | 1/1 | 1/1 | 10.12 | 8.95 | 2.25 |
| TRUE | 1/1 | 1/1 | 10.12 | 8.95 | 2.25 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.83 | 7.46 | -1.55 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.42 | -1.1 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.42 | -1.1 |
| TRUE | 1/1 | 1/1 | 6.82 | 6.95 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.82 | 6.95 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.29 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.29 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.29 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.29 | -1.27 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.78 | -2 |
| TRUE | 1/1 | 1/1 | 9.78 | 10.78 | -2 |
| TRUE | 1/1 | 1/1 | 5.14 | 5.27 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.14 | 5.27 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.14 | 5.27 | -1.09 |
| TRUE | 1/1 | 1/1 | 5.14 | 5.27 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.61 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.61 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.61 | -1.17 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.32 | 5.53 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.32 | 5.53 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.32 | 5.53 | -1.15 |
| TRUE | 1/1 | 1/1 | 11.13 | 11.74 | -1.53 |
| TRUE | 1/1 | 1/1 | 11.13 | 11.74 | -1.53 |
| TRUE | 1/1 | 1/1 | 11.13 | 11.74 | -1.53 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.04 | -1.05 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.04 | -1.05 |
| TRUE | 1/1 | 1/1 | 4.97 | 5.04 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.84 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.68 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.68 | -1.27 |
| TRUE | 1/1 | 1/1 | 7.33 | 7.68 | -1.27 |
| TRUE | 1/1 | 1/1 | 9.43 | 9.38 | 1.04 |
| TRUE | 1/1 | 1/1 | 9.43 | 9.38 | 1.04 |
| TRUE | 1/1 | 1/1 | 9.43 | 9.38 | 1.04 |
| TRUE | 1/1 | 1/1 | 9.49 | 9.04 | 1.36 |
| TRUE | 1/1 | 1/1 | 9.49 | 9.04 | 1.36 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 7.84 | 6.29 | 2.93 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.23 | 6.83 | 2.65 |
| TRUE | 1/1 | 1/1 | 5.11 | 4.35 | 1.69 |
| TRUE | 1/1 | 1/1 | 5.11 | 4.35 | 1.69 |
| TRUE | 1/1 | 1/1 | 5.11 | 4.35 | 1.69 |
| TRUE | 1/1 | 1/1 | 5.11 | 4.35 | 1.69 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.78 | -1.29 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.91 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.91 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.06 | 1.44 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.06 | 1.44 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.5 | 1.13 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.5 | 1.13 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.5 | 1.13 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.68 | 6.5 | 1.13 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.5 | 1.13 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.77 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.83 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.83 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.83 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.28 | -1.06 |
| TRUE | 1/1 | 1/1 | 4.19 | 4.28 | -1.06 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.1 | 2.19 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.1 | 2.19 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.1 | 2.19 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.51 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.35 | 5.51 | -1.12 |
| TRUE | 1/1 | 1/1 | 8.37 | 9.13 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.37 | 9.13 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.02 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.02 | -1.3 |
| TRUE | 1/1 | 1/1 | 6.64 | 7.02 | -1.3 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.68 | 1.24 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.68 | 1.24 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.68 | 1.24 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.68 | 1.24 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.68 | 1.24 |
| TRUE | 1/1 | 1/1 | 7.7 | 8.74 | -2.05 |
| TRUE | 1/1 | 1/1 | 7.7 | 8.74 | -2.05 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.84 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.84 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.84 | 1.11 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.06 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.06 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.06 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.28 | 8.06 | 1.17 |
| TRUE | 1/1 | 1/1 | 9.13 | 9.18 | -1.03 |
| TRUE | 1/1 | 1/1 | 9.13 | 9.18 | -1.03 |
| TRUE | 1/1 | 1/1 | 9.13 | 9.18 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.65 | 5.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 4.65 | 5.23 | -1.5 |
| TRUE | 1/1 | 1/1 | 5.3 | 5.16 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.3 | 5.16 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.55 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.55 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.55 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.84 | 6.55 | 1.23 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.86 | 8.15 | 1.64 |
| TRUE | 1/1 | 1/1 | 7.72 | 7.61 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.72 | 7.61 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.72 | 7.61 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.72 | 7.61 | 1.08 |
| TRUE | 1/1 | 1/1 | 7.72 | 7.61 | 1.08 |

| | | | | | |
|------|-----|-----|------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.14 | 3.1 |
| TRUE | 1/1 | 1/1 | 8.71 | 7.8 | 1.88 |
| TRUE | 1/1 | 1/1 | 8.71 | 7.8 | 1.88 |
| TRUE | 1/1 | 1/1 | 8.71 | 7.8 | 1.88 |
| TRUE | 1/1 | 1/1 | 8.71 | 7.8 | 1.88 |
| TRUE | 1/1 | 1/1 | 8.71 | 7.8 | 1.88 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.63 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.63 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.63 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.63 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.63 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.63 | 1.02 |
| TRUE | 1/1 | 1/1 | 9.57 | 9.83 | -1.2 |
| TRUE | 1/1 | 1/1 | 9.57 | 9.83 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.07 | 5.8 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.07 | 5.8 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.05 | 5.36 | 1.62 |
| TRUE | 1/1 | 1/1 | 6.05 | 5.36 | 1.62 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.05 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.05 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.05 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.05 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.05 | -1.11 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.31 | -1.51 |
| TRUE | 1/1 | 1/1 | 9.71 | 10.31 | -1.51 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.41 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.41 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.41 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.41 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.41 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.2 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.2 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.19 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.19 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.96 | 7.66 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.96 | 7.66 | 1.23 |
| TRUE | 1/1 | 1/1 | 8 | 8.77 | -1.7 |
| TRUE | 1/1 | 1/1 | 8 | 8.77 | -1.7 |
| TRUE | 1/1 | 1/1 | 8 | 8.77 | -1.7 |
| TRUE | 1/1 | 1/1 | 8 | 8.77 | -1.7 |
| TRUE | 1/1 | 1/1 | 9 | 8.95 | 1.04 |
| TRUE | 1/1 | 1/1 | 9 | 8.95 | 1.04 |
| TRUE | 1/1 | 1/1 | 9 | 8.95 | 1.04 |
| TRUE | 1/1 | 1/1 | 9 | 8.95 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.46 | 6.95 | 1.42 |
| TRUE | 1/1 | 1/1 | 7.46 | 6.95 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 6.57 | 5.86 | 1.64 |
| TRUE | 1/1 | 1/1 | 8.36 | 7.82 | 1.45 |
| TRUE | 1/1 | 1/1 | 8.36 | 7.82 | 1.45 |
| TRUE | 1/1 | 1/1 | 8.36 | 7.82 | 1.45 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.06 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.06 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.06 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.06 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.06 | -1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 6.06 | -1.1 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.32 | 1.48 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.32 | 1.48 |
| TRUE | 1/1 | 1/1 | 3.89 | 3.32 | 1.48 |
| TRUE | 1/1 | 1/1 | 6 | 6.27 | -1.21 |
| TRUE | 1/1 | 1/1 | 6 | 6.27 | -1.21 |
| TRUE | 1/1 | 1/1 | 6 | 6.27 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.24 | 6.86 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.24 | 6.86 | -1.54 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 9.79 | 6.28 | 11.38 |
| TRUE | 1/1 | 1/1 | 5.6 | 5.81 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.6 | 5.81 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.6 | 5.81 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.87 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.87 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.87 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.87 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.14 | 7.87 | 1.21 |
| TRUE | 1/1 | 1/1 | 4.24 | 3.57 | 1.6 |
| TRUE | 1/1 | 1/1 | 4.24 | 3.57 | 1.6 |
| TRUE | 1/1 | 1/1 | 4.24 | 3.57 | 1.6 |
| TRUE | 1/1 | 1/1 | 10.22 | 9.46 | 1.69 |
| TRUE | 1/1 | 1/1 | 10.22 | 9.46 | 1.69 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.53 | -1.32 |
| TRUE | 1/1 | 1/1 | 7.88 | 4.68 | 9.19 |
| TRUE | 1/1 | 1/1 | 7.88 | 4.68 | 9.19 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.19 | -1.19 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.19 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.14 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.14 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.89 | 7.14 | -1.19 |
| TRUE | 1/1 | 1/1 | 4.02 | 4.43 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.02 | 4.43 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.02 | 4.43 | -1.33 |
| TRUE | 1/1 | 1/1 | 6.18 | 6.42 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.18 | 6.42 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.4 | 7.51 | -1.08 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.92 | 6.93 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.93 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.93 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.93 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.23 | 5.29 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.23 | 5.29 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.23 | 5.29 | 1.93 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 6.77 | 5.78 | 1.99 |
| TRUE | 1/1 | 1/1 | 8.28 | 7.32 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.28 | 7.32 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.28 | 7.32 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.74 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.74 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.74 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.74 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.74 | 1.01 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.78 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.78 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.78 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.78 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.78 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.78 | -1.13 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.03 | 6.18 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.42 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.42 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.42 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.42 | 1.76 |
| TRUE | 1/1 | 1/1 | 9.23 | 8.42 | 1.76 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.03 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.03 | 1.42 |
| TRUE | 1/1 | 1/1 | 2.6 | 2.58 | 1.01 |
| TRUE | 1/1 | 1/1 | 2.6 | 2.58 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.68 | 7.67 | 2.01 |
| TRUE | 1/1 | 1/1 | 8.68 | 7.67 | 2.01 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.97 | 4.17 | 6.97 |
| TRUE | 1/1 | 1/1 | 6.97 | 4.17 | 6.97 |
| TRUE | 1/1 | 1/1 | 6.97 | 4.17 | 6.97 |
| TRUE | 1/1 | 1/1 | 6.97 | 4.17 | 6.97 |
| TRUE | 1/1 | 1/1 | 6.97 | 4.17 | 6.97 |
| TRUE | 1/1 | 1/1 | 8.42 | 5.68 | 6.68 |
| TRUE | 1/1 | 1/1 | 8.42 | 5.68 | 6.68 |
| TRUE | 1/1 | 1/1 | 8.42 | 5.68 | 6.68 |
| TRUE | 1/1 | 1/1 | 8.42 | 5.68 | 6.68 |
| TRUE | 1/1 | 1/1 | 8.42 | 5.68 | 6.68 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.72 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.72 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.72 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.72 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.91 | 8.72 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.11 | 1.81 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.11 | 1.81 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.11 | 1.81 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.22 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.19 | 6.22 | -1.02 |
| TRUE | 1/1 | 1/1 | 10.28 | 10.52 | -1.18 |
| TRUE | 1/1 | 1/1 | 10.28 | 10.52 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.05 | 6.16 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.87 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.87 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.24 | 6.48 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.24 | 6.48 | -1.18 |
| TRUE | 1/1 | 1/1 | 6.24 | 6.48 | -1.18 |
| TRUE | 1/1 | 1/1 | 10.76 | 6.1 | 25.31 |
| TRUE | 1/1 | 1/1 | 10.76 | 6.1 | 25.31 |
| TRUE | 1/1 | 1/1 | 3.65 | 3.49 | 1.12 |
| TRUE | 1/1 | 1/1 | 3.65 | 3.49 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.05 | 3.2 | 1.81 |
| TRUE | 1/1 | 1/1 | 4.05 | 3.2 | 1.81 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.72 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.63 | 5.72 | -1.07 |
| TRUE | 1/1 | 1/1 | 8.35 | 7.82 | 1.45 |
| TRUE | 1/1 | 1/1 | 8.35 | 7.82 | 1.45 |
| TRUE | 1/1 | 1/1 | 3.62 | 3.37 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.62 | 3.37 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.62 | 3.37 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.62 | 3.37 | 1.19 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.72 | 1.76 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.72 | 1.76 |
| TRUE | 1/1 | 1/1 | 5.52 | 4.51 | 2.02 |
| TRUE | 1/1 | 1/1 | 5.52 | 4.51 | 2.02 |
| TRUE | 1/1 | 1/1 | 5 | 4.94 | 1.05 |
| TRUE | 1/1 | 1/1 | 5 | 4.94 | 1.05 |
| TRUE | 1/1 | 1/1 | 5 | 4.94 | 1.05 |
| TRUE | 1/1 | 1/1 | 5 | 4.94 | 1.05 |
| TRUE | 1/1 | 1/1 | 4.98 | 5.07 | -1.06 |
| TRUE | 1/1 | 1/1 | 4.98 | 5.07 | -1.06 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.87 | 6.96 | 1.89 |
| TRUE | 1/1 | 1/1 | 7.87 | 6.96 | 1.89 |
| TRUE | 1/1 | 1/1 | 7.87 | 6.96 | 1.89 |
| TRUE | 1/1 | 1/1 | 7.87 | 6.96 | 1.89 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.45 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.45 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.05 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.05 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.45 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.36 | 6.45 | -1.07 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.05 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.04 | 7.05 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.98 | 7.89 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.98 | 7.89 | 1.06 |
| TRUE | 1/1 | 1/1 | 8.39 | 7.34 | 2.07 |
| TRUE | 1/1 | 1/1 | 8.39 | 7.34 | 2.07 |
| TRUE | 1/1 | 1/1 | 8.39 | 7.34 | 2.07 |
| TRUE | 1/1 | 1/1 | 8.39 | 7.34 | 2.07 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 11.29 | 10.77 | 1.43 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7 | 7.23 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.73 | 7.78 | -1.04 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 4.85 | 3.65 | 2.3 |
| TRUE | 1/1 | 1/1 | 4.85 | 3.65 | 2.3 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.2 | 2.46 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 8.19 | 7.27 | 1.89 |
| TRUE | 1/1 | 1/1 | 6.8 | 8.36 | -2.94 |
| TRUE | 1/1 | 1/1 | 6.8 | 8.36 | -2.94 |
| TRUE | 1/1 | 1/1 | 6.8 | 8.36 | -2.94 |
| TRUE | 1/1 | 1/1 | 5 | 5.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 5 | 5.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 5 | 5.02 | -1.01 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.8 | -1.27 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.8 | -1.27 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.8 | -1.27 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.8 | -1.27 |
| TRUE | 1/1 | 1/1 | 10.45 | 10.8 | -1.27 |
| TRUE | 1/1 | 1/1 | 6.98 | 6.72 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.98 | 6.72 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.98 | 6.72 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.98 | 6.72 | 1.2 |
| TRUE | 1/1 | 1/1 | 7.8 | 7.16 | 1.56 |
| TRUE | 1/1 | 1/1 | 7.8 | 7.16 | 1.56 |
| TRUE | 1/1 | 1/1 | 7.8 | 7.16 | 1.56 |
| TRUE | 1/1 | 1/1 | 7.59 | 8.09 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.59 | 8.09 | -1.41 |
| TRUE | 1/1 | 1/1 | 7.59 | 8.09 | -1.41 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.17 | 1.33 |
| TRUE | 1/1 | 1/1 | 5.57 | 5.17 | 1.33 |
| TRUE | 1/1 | 1/1 | 10.04 | 8.93 | 2.16 |
| TRUE | 1/1 | 1/1 | 10.04 | 8.93 | 2.16 |
| TRUE | 1/1 | 1/1 | 8.04 | 7.99 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.04 | 7.99 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.04 | 7.99 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.04 | 7.99 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.57 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.57 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.57 | 1.47 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.12 | 6.57 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.57 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.57 | 1.47 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.25 | 1.57 |
| TRUE | 1/1 | 1/1 | 6.9 | 6.25 | 1.57 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.77 | 8.32 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.64 | 8.43 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.64 | 8.43 | 1.16 |
| TRUE | 1/1 | 1/1 | 3.8 | 3.57 | 1.17 |
| TRUE | 1/1 | 1/1 | 3.8 | 3.57 | 1.17 |
| TRUE | 1/1 | 1/1 | 3.8 | 3.57 | 1.17 |
| TRUE | 1/1 | 1/1 | 8.5 | 7.95 | 1.46 |
| TRUE | 1/1 | 1/1 | 8.5 | 7.95 | 1.46 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 9.98 | 9.14 | 1.8 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.49 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.49 | -1.03 |
| TRUE | 1/1 | 1/1 | 7.45 | 7.49 | -1.03 |
| TRUE | 1/1 | 1/1 | 9 | 7.6 | 2.64 |
| TRUE | 1/1 | 1/1 | 9 | 7.6 | 2.64 |
| TRUE | 1/1 | 1/1 | 9 | 7.6 | 2.64 |
| TRUE | 1/1 | 1/1 | 9 | 7.6 | 2.64 |
| TRUE | 1/1 | 1/1 | 9 | 7.6 | 2.64 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.05 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.05 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.05 | -1.03 |
| TRUE | 1/1 | 1/1 | 6.01 | 6.05 | -1.03 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.32 | 3.46 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.78 | 4.27 | 1.43 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.24 | 2.98 |
| TRUE | 1/1 | 1/1 | 6.4 | 4.97 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.4 | 4.97 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.4 | 4.97 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.4 | 4.97 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.4 | 4.97 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.4 | 4.97 | 2.68 |
| TRUE | 1/1 | 1/1 | 8.74 | 8.69 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.74 | 8.69 | 1.04 |
| TRUE | 1/1 | 1/1 | 7.92 | 7.68 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.92 | 7.68 | 1.18 |
| TRUE | 1/1 | 1/1 | 4.77 | 4.3 | 1.38 |
| TRUE | 1/1 | 1/1 | 4.77 | 4.3 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.27 | 1.24 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.27 | 1.24 |
| TRUE | 1/1 | 1/1 | 6.58 | 6.27 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.78 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.92 | 5.78 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.27 | 4.68 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.27 | 4.68 | 1.51 |
| TRUE | 1/1 | 1/1 | 5.27 | 4.68 | 1.51 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.35 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.35 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.35 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.66 | 7.35 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.58 | 7 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.58 | 7 | -1.34 |
| TRUE | 1/1 | 1/1 | 9.53 | 8.41 | 2.17 |
| TRUE | 1/1 | 1/1 | 9.53 | 8.41 | 2.17 |
| TRUE | 1/1 | 1/1 | 8.62 | 8.1 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.62 | 8.1 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.62 | 8.1 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.62 | 8.1 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.62 | 8.1 | 1.43 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.05 | 1 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.05 | 1 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.05 | 1 |
| TRUE | 1/1 | 1/1 | 7.05 | 7.05 | 1 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.51 | 6.28 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.98 | 6.82 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.98 | 6.82 | 1.12 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.28 | 2.16 |
| TRUE | 1/1 | 1/1 | 5.66 | 4.79 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.66 | 4.79 | 1.82 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.29 | 3 |
| TRUE | 1/1 | 1/1 | 10.26 | 9.74 | 1.43 |
| TRUE | 1/1 | 1/1 | 10.26 | 9.74 | 1.43 |
| TRUE | 1/1 | 1/1 | 10.26 | 9.74 | 1.43 |
| TRUE | 1/1 | 1/1 | 5.03 | 4.87 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.03 | 4.87 | 1.12 |
| TRUE | 1/1 | 1/1 | 8.82 | 7.81 | 2 |
| TRUE | 1/1 | 1/1 | 8.82 | 7.81 | 2 |
| TRUE | 1/1 | 1/1 | 8.82 | 7.81 | 2 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.62 | 6.61 | 2.01 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.95 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.03 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.03 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.03 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.87 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.87 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.87 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.17 | 5.87 | 1.23 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.26 | 1.84 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.26 | 1.84 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.26 | 1.84 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 4.75 | 3.79 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.67 | 6.27 | 2.63 |
| TRUE | 1/1 | 1/1 | 7.67 | 6.27 | 2.63 |
| TRUE | 1/1 | 1/1 | 7.67 | 6.27 | 2.63 |
| TRUE | 1/1 | 1/1 | 3.12 | 3 | 1.09 |
| TRUE | 1/1 | 1/1 | 3.12 | 3 | 1.09 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 6.89 | 5.42 | 2.77 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.69 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.69 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.69 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.94 | 4.54 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.94 | 4.54 | 1.32 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.64 | 1.66 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.64 | 1.66 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.64 | 1.66 |
| TRUE | 1/1 | 1/1 | 8.31 | 7.07 | 2.36 |
| TRUE | 1/1 | 1/1 | 8.31 | 7.07 | 2.36 |
| TRUE | 1/1 | 1/1 | 8.31 | 7.07 | 2.36 |
| TRUE | 1/1 | 1/1 | 8.27 | 7.21 | 2.08 |
| TRUE | 1/1 | 1/1 | 8.27 | 7.21 | 2.08 |
| TRUE | 1/1 | 1/1 | 8.27 | 7.21 | 2.08 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.3 | 7.09 | 1.16 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.6 | 1.73 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.6 | 1.73 |
| TRUE | 1/1 | 1/1 | 4.74 | 4.07 | 1.59 |
| TRUE | 1/1 | 1/1 | 4.74 | 4.07 | 1.59 |
| TRUE | 1/1 | 1/1 | 4.74 | 4.07 | 1.59 |
| TRUE | 1/1 | 1/1 | 4.74 | 4.07 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.11 | 5.86 | 2.38 |
| TRUE | 1/1 | 1/1 | 7.11 | 5.86 | 2.38 |
| TRUE | 1/1 | 1/1 | 7.11 | 5.86 | 2.38 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.45 | -1.43 |
| TRUE | 1/1 | 1/1 | 7.94 | 8.45 | -1.43 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.12 | 2.6 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.61 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.81 | 7.61 | 1.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 10.63 | 8.98 | 3.14 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.28 |
| TRUE | 1/1 | 1/1 | 8.03 | 8.39 | -1.28 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.12 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.12 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.12 | -1.21 |
| TRUE | 1/1 | 1/1 | 5.85 | 6.12 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.46 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.91 | 6.46 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.82 | 6.97 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.82 | 6.97 | -1.11 |
| TRUE | 1/1 | 1/1 | 6.82 | 6.97 | -1.11 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.88 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.88 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.88 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.88 | 1.57 |
| TRUE | 1/1 | 1/1 | 5.53 | 4.88 | 1.57 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.37 | 2.02 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.37 | 2.02 |
| TRUE | 1/1 | 1/1 | 4.38 | 3.37 | 2.02 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.11 | 1.31 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.11 | 1.31 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.11 | 1.31 |
| TRUE | 1/1 | 1/1 | 8.24 | 8.33 | -1.07 |
| TRUE | 1/1 | 1/1 | 8.24 | 8.33 | -1.07 |
| TRUE | 1/1 | 1/1 | 8.24 | 8.33 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.29 | 1.61 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.29 | 1.61 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.29 | 1.61 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.29 | 1.61 |
| TRUE | 1/1 | 1/1 | 6.97 | 6.29 | 1.61 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.93 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.93 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.34 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.34 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.34 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.34 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.34 | -1.02 |
| TRUE | 1/1 | 1/1 | 9.54 | 10.21 | -1.59 |
| TRUE | 1/1 | 1/1 | 9.54 | 10.21 | -1.59 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.91 | -1.94 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.91 | -1.94 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.91 | -1.94 |
| TRUE | 1/1 | 1/1 | 7.96 | 8.91 | -1.94 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.42 | 1.95 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.42 | 1.95 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.42 | 1.95 |
| TRUE | 1/1 | 1/1 | 9.39 | 8.42 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.23 | 7.12 | 2.17 |
| TRUE | 1/1 | 1/1 | 8.23 | 7.12 | 2.17 |
| TRUE | 1/1 | 1/1 | 8.23 | 7.12 | 2.17 |
| TRUE | 1/1 | 1/1 | 8.23 | 7.12 | 2.17 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.87 | 3.37 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.06 | 1.17 |
| TRUE | 1/1 | 1/1 | 4.28 | 4.06 | 1.17 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.04 | 5.97 | 2.09 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.22 | 1.67 |
| TRUE | 1/1 | 1/1 | 7.97 | 7.22 | 1.67 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.2 | 4.26 | -1.04 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.47 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.47 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.47 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.47 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.82 | 2.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.82 | 2.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.82 | 2.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.82 | 2.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.82 | 2.03 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.82 | 2.03 |
| TRUE | 1/1 | 1/1 | 9.9 | 9.01 | 1.86 |
| TRUE | 1/1 | 1/1 | 9.9 | 9.01 | 1.86 |
| TRUE | 1/1 | 1/1 | 3.69 | 3.43 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.69 | 3.43 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.69 | 3.43 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.69 | 3.43 | 1.19 |
| TRUE | 1/1 | 1/1 | 3.69 | 3.43 | 1.19 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.16 | 2.07 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.16 | 2.07 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.16 | 2.07 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.16 | 2.07 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.16 | 2.07 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.16 | 2.07 |
| TRUE | 1/1 | 1/1 | 7 | 7.26 | -1.2 |
| TRUE | 1/1 | 1/1 | 7 | 7.26 | -1.2 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 6.02 | 4.02 | 4.01 |
| TRUE | 1/1 | 1/1 | 6.02 | 4.02 | 4.01 |
| TRUE | 1/1 | 1/1 | 6.02 | 4.02 | 4.01 |
| TRUE | 1/1 | 1/1 | 6.02 | 4.02 | 4.01 |
| TRUE | 1/1 | 1/1 | 6.02 | 4.02 | 4.01 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.93 | 2.57 |
| TRUE | 1/1 | 1/1 | 9.87 | 9.65 | 1.16 |
| TRUE | 1/1 | 1/1 | 9.87 | 9.65 | 1.16 |
| TRUE | 1/1 | 1/1 | 9.87 | 9.65 | 1.16 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.31 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.31 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.37 | 8.31 | 1.04 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 10.82 | 9.54 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.19 | 6.61 | 1.49 |
| TRUE | 1/1 | 1/1 | 7.19 | 6.61 | 1.49 |
| TRUE | 1/1 | 1/1 | 7.19 | 6.61 | 1.49 |
| TRUE | 1/1 | 1/1 | 7.19 | 6.61 | 1.49 |
| TRUE | 1/1 | 1/1 | 3.09 | 2.77 | 1.25 |
| TRUE | 1/1 | 1/1 | 3.09 | 2.77 | 1.25 |
| TRUE | 1/1 | 1/1 | 3.09 | 2.77 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.16 | 5.71 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.16 | 5.71 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.16 | 5.71 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.16 | 5.71 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.16 | 5.71 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.16 | 5.71 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.78 | -1.07 |
| TRUE | 1/1 | 1/1 | 5.69 | 5.78 | -1.07 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.64 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.64 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.64 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.64 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.14 | -1.05 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.14 | -1.05 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.41 | 1.86 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.41 | 1.86 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.41 | 1.86 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.58 | 1.1 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.58 | 1.1 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.36 | 6.58 | 1.71 |
| TRUE | 1/1 | 1/1 | 7.36 | 6.58 | 1.71 |
| TRUE | 1/1 | 1/1 | 7.36 | 6.58 | 1.71 |
| TRUE | 1/1 | 1/1 | 4.43 | 3.71 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.43 | 3.71 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.43 | 3.71 | 1.64 |
| TRUE | 1/1 | 1/1 | 4.43 | 3.71 | 1.64 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.85 | 1.06 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.85 | 1.06 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.85 | 1.06 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.85 | 1.06 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.85 | 1.06 |
| TRUE | 1/1 | 1/1 | 3.94 | 3.85 | 1.06 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.57 | 7.25 | 2.51 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.85 | 4.01 | 1.79 |
| TRUE | 1/1 | 1/1 | 4.77 | 3.77 | 1.99 |
| TRUE | 1/1 | 1/1 | 4.77 | 3.77 | 1.99 |
| TRUE | 1/1 | 1/1 | 4.77 | 3.77 | 1.99 |
| TRUE | 1/1 | 1/1 | 10.52 | 10.65 | -1.09 |
| TRUE | 1/1 | 1/1 | 10.52 | 10.65 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.16 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.16 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.16 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.16 | 1.47 |
| TRUE | 1/1 | 1/1 | 7.71 | 7.16 | 1.47 |
| TRUE | 1/1 | 1/1 | 3.68 | 4.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 3.68 | 4.01 | -1.26 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.6 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.6 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.6 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.6 | 1.28 |
| TRUE | 1/1 | 1/1 | 8.95 | 8.6 | 1.28 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.9 | 7.67 | -1.71 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.27 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.31 | 6.27 | 1.03 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |
| TRUE | 1/1 | 1/1 | 5.31 | 4.57 | 1.66 |
| TRUE | 1/1 | 1/1 | 9.08 | 8.59 | 1.4 |
| TRUE | 1/1 | 1/1 | 9.08 | 8.59 | 1.4 |
| TRUE | 1/1 | 1/1 | 9.08 | 8.59 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.8 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.8 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.68 | 6.8 | -1.09 |
| TRUE | 1/1 | 1/1 | 6.38 | 5.92 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.38 | 5.92 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.72 | 2.12 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.72 | 2.12 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.72 | 2.12 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.72 | 2.12 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.72 | 2.12 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.33 | 1.7 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.33 | 1.7 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.33 | 1.7 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.33 | 1.7 |
| TRUE | 1/1 | 1/1 | 5.09 | 4.33 | 1.7 |
| TRUE | 1/1 | 1/1 | 10.46 | 8.96 | 2.84 |
| TRUE | 1/1 | 1/1 | 10.46 | 8.96 | 2.84 |
| TRUE | 1/1 | 1/1 | 10.46 | 8.96 | 2.84 |
| TRUE | 1/1 | 1/1 | 8.92 | 7.68 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.92 | 7.68 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.92 | 7.68 | 2.38 |
| TRUE | 1/1 | 1/1 | 8.92 | 7.68 | 2.38 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.22 | 1.38 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.22 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.65 | 5.62 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.65 | 5.62 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.65 | 5.62 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.65 | 5.62 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.65 | 5.62 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.34 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.34 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.34 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.34 | 1.11 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.34 | 1.11 |
| TRUE | 1/1 | 1/1 | 5.98 | 5.55 | 1.34 |
| TRUE | 1/1 | 1/1 | 5.98 | 5.55 | 1.34 |
| TRUE | 1/1 | 1/1 | 5.98 | 5.55 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.32 | 2.1 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.32 | 2.1 |
| TRUE | 1/1 | 1/1 | 6.39 | 5.32 | 2.1 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.11 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.11 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.4 | 6.11 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.61 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.61 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.61 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 6.88 | 5.84 | 2.06 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 11.13 | 9.52 | 3.05 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.6 | 7.74 | 1.8 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 8.51 | 7.41 | 2.14 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.36 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.27 | 6.36 | -1.06 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.5 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.5 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.5 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.5 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.5 | 1.79 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 7.55 | 8.27 | -1.66 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.43 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.43 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.43 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.43 | -1.18 |
| TRUE | 1/1 | 1/1 | 8.19 | 8.43 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.6 | 1.97 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.6 | 1.97 |
| TRUE | 1/1 | 1/1 | 8.53 | 7.2 | 2.51 |
| TRUE | 1/1 | 1/1 | 8.53 | 7.2 | 2.51 |
| TRUE | 1/1 | 1/1 | 3.34 | 2.9 | 1.35 |
| TRUE | 1/1 | 1/1 | 3.34 | 2.9 | 1.35 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.47 | 1.74 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.47 | 1.74 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.47 | 1.74 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.47 | 1.74 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.56 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.56 | 1.37 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.02 | 7.56 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.56 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.56 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.56 | 1.37 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 8.81 | 7.33 | 2.78 |
| TRUE | 1/1 | 1/1 | 3.85 | 2.74 | 2.16 |
| TRUE | 1/1 | 1/1 | 3.85 | 2.74 | 2.16 |
| TRUE | 1/1 | 1/1 | 3.85 | 2.74 | 2.16 |
| TRUE | 1/1 | 1/1 | 3.85 | 2.74 | 2.16 |
| TRUE | 1/1 | 1/1 | 10.92 | 11.33 | -1.32 |
| TRUE | 1/1 | 1/1 | 10.92 | 11.33 | -1.32 |
| TRUE | 1/1 | 1/1 | 10.92 | 11.33 | -1.32 |
| TRUE | 1/1 | 1/1 | 8.18 | 7.9 | 1.22 |
| TRUE | 1/1 | 1/1 | 8.18 | 7.9 | 1.22 |
| TRUE | 1/1 | 1/1 | 8.18 | 7.9 | 1.22 |
| TRUE | 1/1 | 1/1 | 6.31 | 5.85 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.31 | 5.85 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.31 | 5.85 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.17 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.17 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.17 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.62 | 5.17 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.36 | 2.95 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.36 | 2.95 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.36 | 2.95 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.39 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.39 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.6 | 7.39 | 1.15 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.88 | 2.23 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.88 | 2.23 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.88 | 2.23 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.88 | 2.23 |
| TRUE | 1/1 | 1/1 | 9.03 | 7.88 | 2.23 |
| TRUE | 1/1 | 1/1 | 10.18 | 8.98 | 2.3 |
| TRUE | 1/1 | 1/1 | 10.18 | 8.98 | 2.3 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.06 | 1.94 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.06 | 1.94 |
| TRUE | 1/1 | 1/1 | 8.02 | 7.06 | 1.94 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 6.24 | 4.11 | 4.37 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.62 | 9.64 | 1.97 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 7.83 | 6.96 | 1.83 |
| TRUE | 1/1 | 1/1 | 12.57 | 10.92 | 3.14 |
| TRUE | 1/1 | 1/1 | 12.57 | 10.92 | 3.14 |
| TRUE | 1/1 | 1/1 | 12.57 | 10.92 | 3.14 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 6.16 | 6.43 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.8 | 1.1 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.8 | 1.1 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.8 | 1.1 |
| TRUE | 1/1 | 1/1 | 8.93 | 8.8 | 1.1 |
| TRUE | 1/1 | 1/1 | 5.26 | 4.91 | 1.27 |
| TRUE | 1/1 | 1/1 | 5.26 | 4.91 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.53 | 1.32 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.53 | 1.32 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.53 | 1.32 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.53 | 1.32 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 9.26 | 7.92 | 2.53 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.53 | 1 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.53 | 1 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.83 | 2.48 |
| TRUE | 1/1 | 1/1 | 5.14 | 4.65 | 1.4 |
| TRUE | 1/1 | 1/1 | 5.14 | 4.65 | 1.4 |
| TRUE | 1/1 | 1/1 | 5.14 | 4.65 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.2 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.2 | -1.2 |
| TRUE | 1/1 | 1/1 | 7.12 | 7.75 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.12 | 7.75 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.12 | 7.75 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.12 | 7.75 | -1.55 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.98 | 2.92 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.59 | 1.75 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.59 | 1.75 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.59 | 1.75 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.59 | 1.75 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.59 | 1.75 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 8.27 | 6.98 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.75 | 1.57 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.75 | 1.57 |
| TRUE | 1/1 | 1/1 | 3.97 | 3.48 | 1.4 |
| TRUE | 1/1 | 1/1 | 3.97 | 3.48 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.14 | 7.05 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.99 | 6.17 | 1.77 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.53 | 1.15 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.72 | 6.53 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.72 | 6.53 | 1.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 8.8 | 6.75 | 4.15 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.5 | 5.89 | -1.31 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.96 | 6.07 | -1.08 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.5 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.5 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.5 | -1.25 |
| TRUE | 1/1 | 1/1 | 4.18 | 4.5 | -1.25 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 7.83 | 8.37 | -1.46 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.94 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.8 | 3.94 | 1.82 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.36 | -1.05 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.36 | -1.05 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.36 | -1.05 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.29 | 6.35 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.35 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.35 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.95 | 1.29 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.95 | 1.29 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.95 | 1.29 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.95 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.57 | 1.91 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.57 | 1.91 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.57 | 1.91 |
| TRUE | 1/1 | 1/1 | 6.51 | 5.57 | 1.91 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.5 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.5 | 2.01 |
| TRUE | 1/1 | 1/1 | 7.5 | 6.5 | 2.01 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.76 | 6.71 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.97 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.14 | 5.97 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.12 | 1.34 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.12 | 1.34 |
| TRUE | 1/1 | 1/1 | 5.54 | 5.12 | 1.34 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 9.3 | 7.08 | 4.66 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.77 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.77 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.77 | 1.05 |
| TRUE | 1/1 | 1/1 | 9.51 | 9.88 | -1.3 |
| TRUE | 1/1 | 1/1 | 9.51 | 9.88 | -1.3 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.98 | 8.87 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.2 | 1.61 |
| TRUE | 1/1 | 1/1 | 8.89 | 8.2 | 1.61 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.19 | -1.5 |
| TRUE | 1/1 | 1/1 | 4.61 | 5.19 | -1.5 |
| TRUE | 1/1 | 1/1 | 6.37 | 7 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.37 | 7 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.37 | 7 | -1.54 |
| TRUE | 1/1 | 1/1 | 6.37 | 7 | -1.54 |
| TRUE | 1/1 | 1/1 | 10.99 | 10.26 | 1.66 |
| TRUE | 1/1 | 1/1 | 10.99 | 10.26 | 1.66 |
| TRUE | 1/1 | 1/1 | 7.43 | 7.46 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.43 | 7.46 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.43 | 7.46 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.89 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.89 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.89 | -1.16 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.89 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.89 | 7.57 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.89 | 7.57 | 1.25 |
| TRUE | 1/1 | 1/1 | 4.43 | 3.76 | 1.59 |
| TRUE | 1/1 | 1/1 | 4.43 | 3.76 | 1.59 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.63 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.63 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.63 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.63 | -1.09 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.63 | -1.09 |
| TRUE | 1/1 | 1/1 | 8.64 | 8.75 | -1.08 |
| TRUE | 1/1 | 1/1 | 8.64 | 8.75 | -1.08 |
| TRUE | 1/1 | 1/1 | 3.61 | 2.5 | 2.16 |
| TRUE | 1/1 | 1/1 | 3.61 | 2.5 | 2.16 |
| TRUE | 1/1 | 1/1 | 3.61 | 2.5 | 2.16 |
| TRUE | 1/1 | 1/1 | 9.28 | 9.06 | 1.16 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 9.28 | 9.06 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 7.12 | 6.16 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.38 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.38 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.38 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.38 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.38 | 1.95 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.49 | 1.35 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.49 | 1.35 |
| TRUE | 1/1 | 1/1 | 6.92 | 6.49 | 1.35 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.88 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.88 | 1.53 |
| TRUE | 1/1 | 1/1 | 6.5 | 5.88 | 1.53 |
| TRUE | 1/1 | 1/1 | 8.82 | 8.31 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.82 | 8.31 | 1.43 |
| TRUE | 1/1 | 1/1 | 8.82 | 8.31 | 1.43 |
| TRUE | 1/1 | 1/1 | 10.97 | 10.79 | 1.13 |
| TRUE | 1/1 | 1/1 | 10.97 | 10.79 | 1.13 |
| TRUE | 1/1 | 1/1 | 10.97 | 10.79 | 1.13 |
| TRUE | 1/1 | 1/1 | 8.36 | 6.24 | 4.33 |
| TRUE | 1/1 | 1/1 | 8.36 | 6.24 | 4.33 |
| TRUE | 1/1 | 1/1 | 8.36 | 6.24 | 4.33 |
| TRUE | 1/1 | 1/1 | 8.36 | 6.24 | 4.33 |
| TRUE | 1/1 | 1/1 | 8.36 | 6.24 | 4.33 |
| TRUE | 1/1 | 1/1 | 8.36 | 6.24 | 4.33 |
| TRUE | 1/1 | 1/1 | 10.64 | 10.58 | 1.04 |
| TRUE | 1/1 | 1/1 | 10.64 | 10.58 | 1.04 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.64 | 5.17 | 1.38 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.67 | -1.19 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 7.01 | 5.12 | 3.69 |
| TRUE | 1/1 | 1/1 | 3.68 | 3.31 | 1.29 |
| TRUE | 1/1 | 1/1 | 3.68 | 3.31 | 1.29 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 6.29 | 4.78 | 2.83 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.72 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.72 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.72 | -1.23 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.72 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.36 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.6 | 6.36 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.6 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.6 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.44 | 6.6 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.6 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.6 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.19 | 5.12 | 2.11 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.11 | 1.18 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.39 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.39 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.39 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.39 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.39 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.98 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.48 | 5.98 | 1.42 |
| TRUE | 1/1 | 1/1 | 10.54 | 9.41 | 2.2 |
| TRUE | 1/1 | 1/1 | 10.54 | 9.41 | 2.2 |
| TRUE | 1/1 | 1/1 | 10.54 | 9.41 | 2.2 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 9.96 | 8.88 | 2.12 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.49 | -1.34 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.49 | -1.34 |
| TRUE | 1/1 | 1/1 | 9.59 | 8.13 | 2.76 |
| TRUE | 1/1 | 1/1 | 9.59 | 8.13 | 2.76 |
| TRUE | 1/1 | 1/1 | 9.59 | 8.13 | 2.76 |
| TRUE | 1/1 | 1/1 | 9.59 | 8.13 | 2.76 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.17 | -1.32 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.17 | -1.32 |
| TRUE | 1/1 | 1/1 | 5.77 | 6.17 | -1.32 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 5.8 | 4.79 | 2.01 |
| TRUE | 1/1 | 1/1 | 5.8 | 4.79 | 2.01 |
| TRUE | 1/1 | 1/1 | 5.8 | 4.79 | 2.01 |
| TRUE | 1/1 | 1/1 | 5.8 | 4.79 | 2.01 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.69 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.69 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.69 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.43 | 6.69 | -1.2 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.02 | 1.56 |
| TRUE | 1/1 | 1/1 | 4.67 | 4.02 | 1.56 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.73 | 5.96 | 3.41 |
| TRUE | 1/1 | 1/1 | 5.6 | 5.01 | 1.5 |
| TRUE | 1/1 | 1/1 | 5.6 | 5.01 | 1.5 |
| TRUE | 1/1 | 1/1 | 8.44 | 7.33 | 2.16 |
| TRUE | 1/1 | 1/1 | 8.44 | 7.33 | 2.16 |
| TRUE | 1/1 | 1/1 | 8.44 | 7.33 | 2.16 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.12 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.12 | 1.2 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.62 | 2.74 |
| TRUE | 1/1 | 1/1 | 7.22 | 6.49 | 1.66 |
| TRUE | 1/1 | 1/1 | 7.22 | 6.49 | 1.66 |
| TRUE | 1/1 | 1/1 | 7.22 | 6.49 | 1.66 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.61 | 2.33 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.61 | 2.33 |
| TRUE | 1/1 | 1/1 | 5.83 | 4.61 | 2.33 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.67 | 1.38 |
| TRUE | 1/1 | 1/1 | 8.13 | 7.67 | 1.38 |
| TRUE | 1/1 | 1/1 | 5.28 | 4.84 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.28 | 4.84 | 1.36 |
| TRUE | 1/1 | 1/1 | 4.67 | 5.08 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.67 | 5.08 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.67 | 5.08 | -1.33 |
| TRUE | 1/1 | 1/1 | 4.67 | 5.08 | -1.33 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.33 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.11 | 7.33 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.57 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.13 | 7.57 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.54 | 4.33 | 2.31 |
| TRUE | 1/1 | 1/1 | 5.54 | 4.33 | 2.31 |
| TRUE | 1/1 | 1/1 | 5.54 | 4.33 | 2.31 |
| TRUE | 1/1 | 1/1 | 5.54 | 4.33 | 2.31 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.15 | 4.04 | 2.16 |
| TRUE | 1/1 | 1/1 | 5.15 | 4.04 | 2.16 |
| TRUE | 1/1 | 1/1 | 5.15 | 4.04 | 2.16 |
| TRUE | 1/1 | 1/1 | 5.15 | 4.04 | 2.16 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.21 | 2.58 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.21 | 2.58 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.21 | 2.58 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.21 | 2.58 |
| TRUE | 1/1 | 1/1 | 7.58 | 6.21 | 2.58 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.46 | 1.45 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.46 | 1.45 |
| TRUE | 1/1 | 1/1 | 3.99 | 3.46 | 1.45 |
| TRUE | 1/1 | 1/1 | 8.84 | 8.65 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.84 | 8.65 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.84 | 8.65 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.7 | 3.86 |
| TRUE | 1/1 | 1/1 | 7.28 | 6.99 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.28 | 6.99 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.28 | 6.99 | 1.22 |
| TRUE | 1/1 | 1/1 | 7.28 | 6.99 | 1.22 |
| TRUE | 1/1 | 1/1 | 4.45 | 3.47 | 1.97 |
| TRUE | 1/1 | 1/1 | 4.45 | 3.47 | 1.97 |
| TRUE | 1/1 | 1/1 | 4.45 | 3.47 | 1.97 |
| TRUE | 1/1 | 1/1 | 4.45 | 3.47 | 1.97 |
| TRUE | 1/1 | 1/1 | 10.44 | 9.07 | 2.59 |
| TRUE | 1/1 | 1/1 | 10.44 | 9.07 | 2.59 |
| TRUE | 1/1 | 1/1 | 10.44 | 9.07 | 2.59 |
| TRUE | 1/1 | 1/1 | 10.44 | 9.07 | 2.59 |
| TRUE | 1/1 | 1/1 | 10.44 | 9.07 | 2.59 |
| TRUE | 1/1 | 1/1 | 10.44 | 9.07 | 2.59 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.16 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.38 | 6.16 | 1.17 |
| TRUE | 1/1 | 1/1 | 6.09 | 5.6 | 1.4 |
| TRUE | 1/1 | 1/1 | 6.09 | 5.6 | 1.4 |
| TRUE | 1/1 | 1/1 | 11.71 | 10.88 | 1.78 |
| TRUE | 1/1 | 1/1 | 11.71 | 10.88 | 1.78 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.83 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.5 | 7.83 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 7.54 | 7.47 | 1.05 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.1 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.1 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.37 | 7.1 | -1.66 |
| TRUE | 1/1 | 1/1 | 6.54 | 5.39 | 2.21 |
| TRUE | 1/1 | 1/1 | 6.54 | 5.39 | 2.21 |
| TRUE | 1/1 | 1/1 | 6.54 | 5.39 | 2.21 |
| TRUE | 1/1 | 1/1 | 8.11 | 3.92 | 18.36 |
| TRUE | 1/1 | 1/1 | 8.11 | 3.92 | 18.36 |
| TRUE | 1/1 | 1/1 | 8.11 | 3.92 | 18.36 |
| TRUE | 1/1 | 1/1 | 7.36 | 6.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.36 | 6.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.36 | 6.95 | 1.33 |
| TRUE | 1/1 | 1/1 | 8.15 | 7.97 | 1.13 |
| TRUE | 1/1 | 1/1 | 8.15 | 7.97 | 1.13 |
| TRUE | 1/1 | 1/1 | 8.15 | 7.97 | 1.13 |
| TRUE | 1/1 | 1/1 | 8.15 | 7.97 | 1.13 |
| TRUE | 1/1 | 1/1 | 3.44 | 3.7 | -1.2 |
| TRUE | 1/1 | 1/1 | 3.44 | 3.7 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.57 | -1.08 |
| TRUE | 1/1 | 1/1 | 6.45 | 6.57 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.45 | 4.89 | 1.47 |
| TRUE | 1/1 | 1/1 | 5.45 | 4.89 | 1.47 |
| TRUE | 1/1 | 1/1 | 9.22 | 6.43 | 6.91 |
| TRUE | 1/1 | 1/1 | 9.22 | 6.43 | 6.91 |
| TRUE | 1/1 | 1/1 | 9.22 | 6.43 | 6.91 |
| TRUE | 1/1 | 1/1 | 9.22 | 6.43 | 6.91 |
| TRUE | 1/1 | 1/1 | 9.22 | 6.43 | 6.91 |
| TRUE | 1/1 | 1/1 | 9.22 | 6.43 | 6.91 |
| TRUE | 1/1 | 1/1 | 6.48 | 6.37 | 1.08 |
| TRUE | 1/1 | 1/1 | 6.48 | 6.37 | 1.08 |
| TRUE | 1/1 | 1/1 | 8.15 | 6.74 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.15 | 6.74 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.15 | 6.74 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.15 | 6.74 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.15 | 6.74 | 2.65 |
| TRUE | 1/1 | 1/1 | 8.15 | 6.74 | 2.65 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.86 | 1.41 |
| TRUE | 1/1 | 1/1 | 7.35 | 6.86 | 1.41 |
| TRUE | 1/1 | 1/1 | 4.5 | 3.06 | 2.73 |
| TRUE | 1/1 | 1/1 | 4.5 | 3.06 | 2.73 |
| TRUE | 1/1 | 1/1 | 4.5 | 3.06 | 2.73 |
| TRUE | 1/1 | 1/1 | 4.5 | 3.06 | 2.73 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.95 | 1.32 |
| TRUE | 1/1 | 1/1 | 5.35 | 4.95 | 1.32 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.06 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.27 | 7.06 | 1.16 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.32 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.32 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.32 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.32 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.32 |
| TRUE | 1/1 | 1/1 | 9.14 | 7.93 | 2.32 |
| TRUE | 1/1 | 1/1 | 10.11 | 8.82 | 2.43 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 7.03 | 5.89 | 2.2 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.89 | 2.2 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.89 | 2.2 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.89 | 2.2 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.89 | 2.2 |
| TRUE | 1/1 | 1/1 | 7.03 | 5.89 | 2.2 |
| TRUE | 1/1 | 1/1 | 4.29 | 3.84 | 1.36 |
| TRUE | 1/1 | 1/1 | 4.29 | 3.84 | 1.36 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.52 | 1.27 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.52 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.23 | 2.57 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.23 | 2.57 |
| TRUE | 1/1 | 1/1 | 6.59 | 5.23 | 2.57 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.18 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.18 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.18 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.18 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.18 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.99 | 9.18 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.31 | 7.35 | 1.95 |
| TRUE | 1/1 | 1/1 | 8.31 | 7.35 | 1.95 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.93 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.93 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.93 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.82 | 5.93 | -1.08 |
| TRUE | 1/1 | 1/1 | 9.09 | 8.68 | 1.32 |
| TRUE | 1/1 | 1/1 | 9.09 | 8.68 | 1.32 |
| TRUE | 1/1 | 1/1 | 9.09 | 8.68 | 1.32 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.12 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.12 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.12 | 1.03 |
| TRUE | 1/1 | 1/1 | 6.17 | 6.12 | 1.03 |
| TRUE | 1/1 | 1/1 | 12.98 | 9.17 | 14.02 |
| TRUE | 1/1 | 1/1 | 12.98 | 9.17 | 14.02 |
| TRUE | 1/1 | 1/1 | 12.98 | 9.17 | 14.02 |
| TRUE | 1/1 | 1/1 | 12.98 | 9.17 | 14.02 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.51 | 1.33 |
| TRUE | 1/1 | 1/1 | 4.92 | 4.51 | 1.33 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.5 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.5 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.5 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.5 | -1.72 |
| TRUE | 1/1 | 1/1 | 6.71 | 7.5 | -1.72 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.22 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.18 | 2.19 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.18 | 2.19 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.01 | -1 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.01 | -1 |
| TRUE | 1/1 | 1/1 | 7.01 | 7.01 | -1 |
| TRUE | 1/1 | 1/1 | 8.87 | 6.48 | 5.24 |
| TRUE | 1/1 | 1/1 | 8.87 | 6.48 | 5.24 |
| TRUE | 1/1 | 1/1 | 8.87 | 6.48 | 5.24 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.87 | 6.48 | 5.24 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 5.87 | 5.88 | -1 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.04 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.09 | 4.04 | 1.04 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.29 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.29 | 1.21 |
| TRUE | 1/1 | 1/1 | 6.56 | 6.29 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.55 | 4.43 | 2.18 |
| TRUE | 1/1 | 1/1 | 5.55 | 4.43 | 2.18 |
| TRUE | 1/1 | 1/1 | 5.55 | 4.43 | 2.18 |
| TRUE | 1/1 | 1/1 | 5.55 | 4.43 | 2.18 |
| TRUE | 1/1 | 1/1 | 5.55 | 4.43 | 2.18 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.45 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.45 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.45 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.45 | 1.15 |
| TRUE | 1/1 | 1/1 | 6.66 | 6.45 | 1.15 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.67 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.67 | -1.13 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.67 | -1.13 |
| TRUE | 1/1 | 1/1 | 11.04 | 10.68 | 1.28 |
| TRUE | 1/1 | 1/1 | 11.04 | 10.68 | 1.28 |
| TRUE | 1/1 | 1/1 | 11.04 | 10.68 | 1.28 |
| TRUE | 1/1 | 1/1 | 11.04 | 10.68 | 1.28 |
| TRUE | 1/1 | 1/1 | 11.04 | 10.68 | 1.28 |
| TRUE | 1/1 | 1/1 | 7.15 | 6.01 | 2.21 |
| TRUE | 1/1 | 1/1 | 7.15 | 6.01 | 2.21 |
| TRUE | 1/1 | 1/1 | 4.52 | 3.65 | 1.82 |
| TRUE | 1/1 | 1/1 | 4.52 | 3.65 | 1.82 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.72 | -1.18 |
| TRUE | 1/1 | 1/1 | 7.47 | 7.72 | -1.18 |
| TRUE | 1/1 | 1/1 | 9.23 | 9.88 | -1.57 |
| TRUE | 1/1 | 1/1 | 9.23 | 9.88 | -1.57 |
| TRUE | 1/1 | 1/1 | 4.52 | 3.54 | 1.98 |
| TRUE | 1/1 | 1/1 | 4.52 | 3.54 | 1.98 |
| TRUE | 1/1 | 1/1 | 4.52 | 3.54 | 1.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 7.49 | 4.91 | 5.98 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.96 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.96 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.41 | 4.96 | 1.37 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.14 | 1.28 |
| TRUE | 1/1 | 1/1 | 5.49 | 5.14 | 1.28 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.48 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 5.9 | 6.53 | -1.55 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.61 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.61 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.61 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.61 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.61 | -1.57 |
| TRUE | 1/1 | 1/1 | 6.95 | 7.61 | -1.57 |
| TRUE | 1/1 | 1/1 | 5.9 | 4.04 | 3.61 |
| TRUE | 1/1 | 1/1 | 5.9 | 4.04 | 3.61 |
| TRUE | 1/1 | 1/1 | 5.9 | 4.04 | 3.61 |
| TRUE | 1/1 | 1/1 | 5.9 | 4.04 | 3.61 |
| TRUE | 1/1 | 1/1 | 5.9 | 4.04 | 3.61 |
| TRUE | 1/1 | 1/1 | 5.9 | 4.04 | 3.61 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.17 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.65 | 7.17 | 1.4 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.55 | 2.53 |
| TRUE | 1/1 | 1/1 | 7.32 | 7.28 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.32 | 7.28 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.32 | 7.28 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 7.52 | 5.72 | 3.47 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.3 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.3 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.97 | 7.3 | -1.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 6.62 | 4.92 | 3.26 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.3 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.3 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.3 | 1.07 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.3 | 1.07 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 10.07 | 8.84 | 2.33 |
| TRUE | 1/1 | 1/1 | 9.67 | 9.16 | 1.43 |
| TRUE | 1/1 | 1/1 | 9.67 | 9.16 | 1.43 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.29 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.29 | 1.12 |
| TRUE | 1/1 | 1/1 | 4.44 | 4.29 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.36 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.36 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.36 | -1.19 |
| TRUE | 1/1 | 1/1 | 5.11 | 5.36 | -1.19 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.53 | 1.76 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.53 | 1.76 |
| TRUE | 1/1 | 1/1 | 6.34 | 5.53 | 1.76 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.78 | -1.14 |
| TRUE | 1/1 | 1/1 | 6.59 | 6.78 | -1.14 |
| TRUE | 1/1 | 1/1 | 3.52 | 2.66 | 1.82 |
| TRUE | 1/1 | 1/1 | 3.52 | 2.66 | 1.82 |
| TRUE | 1/1 | 1/1 | 3.52 | 2.66 | 1.82 |
| TRUE | 1/1 | 1/1 | 3.52 | 2.66 | 1.82 |
| TRUE | 1/1 | 1/1 | 3.52 | 2.66 | 1.82 |
| TRUE | 1/1 | 1/1 | 6.86 | 7.15 | -1.23 |
| TRUE | 1/1 | 1/1 | 6.86 | 7.15 | -1.23 |
| TRUE | 1/1 | 1/1 | 11.88 | 10.74 | 2.2 |
| TRUE | 1/1 | 1/1 | 11.88 | 10.74 | 2.2 |
| TRUE | 1/1 | 1/1 | 11.88 | 10.74 | 2.2 |
| TRUE | 1/1 | 1/1 | 11.88 | 10.74 | 2.2 |
| TRUE | 1/1 | 1/1 | 4.99 | 4.58 | 1.33 |
| TRUE | 1/1 | 1/1 | 4.99 | 4.58 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.83 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.83 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.83 | 1.4 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.88 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.88 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.88 | 1.03 |
| TRUE | 1/1 | 1/1 | 7.93 | 7.88 | 1.03 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.13 | 1.35 |
| TRUE | 1/1 | 1/1 | 4.56 | 4.13 | 1.35 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 8.55 | 5.28 | 9.65 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 5.2 | 4.9 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.58 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.58 | 1.25 |
| TRUE | 1/1 | 1/1 | 7.9 | 7.58 | 1.25 |
| TRUE | 1/1 | 1/1 | 8.59 | 7.93 | 1.59 |
| TRUE | 1/1 | 1/1 | 8.59 | 7.93 | 1.59 |
| TRUE | 1/1 | 1/1 | 8.59 | 7.93 | 1.59 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.52 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.52 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.71 | 4.93 | -1.17 |
| TRUE | 1/1 | 1/1 | 4.71 | 4.93 | -1.17 |
| TRUE | 1/1 | 1/1 | 4.71 | 4.93 | -1.17 |
| TRUE | 1/1 | 1/1 | 8.41 | 7.99 | 1.34 |
| TRUE | 1/1 | 1/1 | 8.41 | 7.99 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 6.27 | 3.92 | 5.12 |
| TRUE | 1/1 | 1/1 | 8.92 | 8.86 | 1.05 |
| TRUE | 1/1 | 1/1 | 8.92 | 8.86 | 1.05 |
| TRUE | 1/1 | 1/1 | 3.5 | 2.87 | 1.54 |
| TRUE | 1/1 | 1/1 | 3.5 | 2.87 | 1.54 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.63 | -1.15 |
| TRUE | 1/1 | 1/1 | 8.42 | 8.63 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.82 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.82 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.82 | 1.02 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.84 | 7.82 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.82 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.05 | 1.46 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.05 | 1.46 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.05 | 1.46 |
| TRUE | 1/1 | 1/1 | 5.59 | 5.05 | 1.46 |
| TRUE | 1/1 | 1/1 | 11.27 | 7.27 | 15.98 |
| TRUE | 1/1 | 1/1 | 11.27 | 7.27 | 15.98 |
| TRUE | 1/1 | 1/1 | 11.27 | 7.27 | 15.98 |
| TRUE | 1/1 | 1/1 | 11.27 | 7.27 | 15.98 |
| TRUE | 1/1 | 1/1 | 4.45 | 4.65 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.45 | 4.65 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.45 | 4.65 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.45 | 4.65 | -1.15 |
| TRUE | 1/1 | 1/1 | 4.45 | 4.65 | -1.15 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.57 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.57 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.57 | -1.02 |
| TRUE | 1/1 | 1/1 | 6.54 | 6.57 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.75 | 8.57 | 1.13 |
| TRUE | 1/1 | 1/1 | 8.75 | 8.57 | 1.13 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.46 | 1.75 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.46 | 1.75 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.46 | 1.75 |
| TRUE | 1/1 | 1/1 | 5.16 | 3.86 | 2.46 |
| TRUE | 1/1 | 1/1 | 5.16 | 3.86 | 2.46 |
| TRUE | 1/1 | 1/1 | 5.16 | 3.86 | 2.46 |
| TRUE | 1/1 | 1/1 | 5.16 | 3.86 | 2.46 |
| TRUE | 1/1 | 1/1 | 5.16 | 3.86 | 2.46 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.08 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.08 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.08 | 1.34 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.08 | 1.34 |
| TRUE | 1/1 | 1/1 | 10.63 | 10.48 | 1.11 |
| TRUE | 1/1 | 1/1 | 10.63 | 10.48 | 1.11 |
| TRUE | 1/1 | 1/1 | 3.34 | 2.93 | 1.33 |
| TRUE | 1/1 | 1/1 | 3.34 | 2.93 | 1.33 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.01 | -1.07 |
| TRUE | 1/1 | 1/1 | 8.91 | 9.01 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.73 | 4.99 | 3.35 |
| TRUE | 1/1 | 1/1 | 6.73 | 4.99 | 3.35 |
| TRUE | 1/1 | 1/1 | 10.84 | 9.38 | 2.75 |
| TRUE | 1/1 | 1/1 | 10.84 | 9.38 | 2.75 |
| TRUE | 1/1 | 1/1 | 6.8 | 6.96 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.8 | 6.96 | -1.12 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.25 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.96 | 7.25 | -1.22 |
| TRUE | 1/1 | 1/1 | 3.99 | 4.9 | -1.89 |
| TRUE | 1/1 | 1/1 | 3.99 | 4.9 | -1.89 |
| TRUE | 1/1 | 1/1 | 5.72 | 5.71 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.72 | 5.71 | 1.01 |
| TRUE | 1/1 | 1/1 | 5.72 | 5.71 | 1.01 |
| TRUE | 1/1 | 1/1 | 11.42 | 10.94 | 1.39 |
| TRUE | 1/1 | 1/1 | 11.42 | 10.94 | 1.39 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.85 | 1.45 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.85 | 1.45 |
| TRUE | 1/1 | 1/1 | 5.38 | 4.85 | 1.45 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 6.2 | 5.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.2 | 5.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.2 | 5.73 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.2 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.94 | 7.2 | -1.2 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.61 | 2.47 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.61 | 2.47 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.61 | 2.47 |
| TRUE | 1/1 | 1/1 | 6.92 | 5.61 | 2.47 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.7 | 1.06 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.7 | 1.06 |
| TRUE | 1/1 | 1/1 | 6.79 | 6.7 | 1.06 |
| TRUE | 1/1 | 1/1 | 12.01 | 12.17 | -1.12 |
| TRUE | 1/1 | 1/1 | 12.01 | 12.17 | -1.12 |
| TRUE | 1/1 | 1/1 | 12.01 | 12.17 | -1.12 |
| TRUE | 1/1 | 1/1 | 12.52 | 6.16 | 81.86 |
| TRUE | 1/1 | 1/1 | 12.52 | 6.16 | 81.86 |
| TRUE | 1/1 | 1/1 | 6.11 | 4.74 | 2.58 |
| TRUE | 1/1 | 1/1 | 6.11 | 4.74 | 2.58 |
| TRUE | 1/1 | 1/1 | 6.11 | 4.74 | 2.58 |
| TRUE | 1/1 | 1/1 | 9.08 | 9.24 | -1.12 |
| TRUE | 1/1 | 1/1 | 9.08 | 9.24 | -1.12 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 7.2 | 5.92 | 2.44 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.24 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.24 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.24 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.74 | 6.24 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.65 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.65 | 1.02 |
| TRUE | 1/1 | 1/1 | 8.28 | 7.98 | 1.23 |
| TRUE | 1/1 | 1/1 | 8.28 | 7.98 | 1.23 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.39 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.39 | -1.04 |
| TRUE | 1/1 | 1/1 | 9.67 | 8.75 | 1.88 |
| TRUE | 1/1 | 1/1 | 9.67 | 8.75 | 1.88 |
| TRUE | 1/1 | 1/1 | 8.25 | 7.88 | 1.29 |
| TRUE | 1/1 | 1/1 | 8.25 | 7.88 | 1.29 |
| TRUE | 1/1 | 1/1 | 8.25 | 7.88 | 1.29 |
| TRUE | 1/1 | 1/1 | 11.07 | 11.18 | -1.08 |
| TRUE | 1/1 | 1/1 | 11.07 | 11.18 | -1.08 |
| TRUE | 1/1 | 1/1 | 11.07 | 11.18 | -1.08 |
| TRUE | 1/1 | 1/1 | 11.07 | 11.18 | -1.08 |
| TRUE | 1/1 | 1/1 | 11.07 | 11.18 | -1.08 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.51 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.34 | 5.51 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.39 | 2.81 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.39 | 2.81 |
| TRUE | 1/1 | 1/1 | 5.88 | 4.39 | 2.81 |
| TRUE | 1/1 | 1/1 | 8.03 | 6.15 | 3.68 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 8.03 | 6.15 | 3.68 |
| TRUE | 1/1 | 1/1 | 4.39 | 4.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.39 | 4.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.39 | 4.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.39 | 4.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 4.39 | 4.67 | -1.21 |
| TRUE | 1/1 | 1/1 | 7 | 6.75 | 1.19 |
| TRUE | 1/1 | 1/1 | 7 | 6.75 | 1.19 |
| TRUE | 1/1 | 1/1 | 7 | 6.75 | 1.19 |
| TRUE | 1/1 | 1/1 | 7 | 6.75 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.33 | 7.72 | 1.53 |
| TRUE | 1/1 | 1/1 | 8.33 | 7.72 | 1.53 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.38 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.38 | 7.38 | -1.01 |
| TRUE | 1/1 | 1/1 | 3.31 | 2.8 | 1.42 |
| TRUE | 1/1 | 1/1 | 3.31 | 2.8 | 1.42 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.17 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.07 | 6.17 | -1.07 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 4.52 | 2.66 | 3.64 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.82 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.82 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.82 | -1.04 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.96 | -1.61 |
| TRUE | 1/1 | 1/1 | 5.28 | 5.96 | -1.61 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.77 | 1.78 |
| TRUE | 1/1 | 1/1 | 6.6 | 5.77 | 1.78 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 4.39 | 3.79 | 1.51 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.09 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.09 | 1.01 |
| TRUE | 1/1 | 1/1 | 8.1 | 8.09 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.42 | 3.09 | 2.51 |
| TRUE | 1/1 | 1/1 | 4.42 | 3.09 | 2.51 |
| TRUE | 1/1 | 1/1 | 4.42 | 3.09 | 2.51 |
| TRUE | 1/1 | 1/1 | 7.43 | 7.63 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.43 | 7.63 | -1.15 |
| TRUE | 1/1 | 1/1 | 7.43 | 7.63 | -1.15 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.12 | 5.15 | -1.02 |
| TRUE | 1/1 | 1/1 | 5.76 | 5.09 | 1.59 |
| TRUE | 1/1 | 1/1 | 5.76 | 5.09 | 1.59 |
| TRUE | 1/1 | 1/1 | 5.76 | 5.09 | 1.59 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.5 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.5 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.5 | 1.36 |
| TRUE | 1/1 | 1/1 | 6.94 | 6.5 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.73 | 8.49 | 1.18 |
| TRUE | 1/1 | 1/1 | 8.73 | 8.49 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 6.86 | 6.61 | 1.19 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.3 | 1.14 |
| TRUE | 1/1 | 1/1 | 8.49 | 8.3 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.72 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.76 | 7.72 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.68 | 1.55 |
| TRUE | 1/1 | 1/1 | 7.31 | 6.68 | 1.55 |
| TRUE | 1/1 | 1/1 | 8.99 | 8.54 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.99 | 8.54 | 1.36 |
| TRUE | 1/1 | 1/1 | 8.99 | 8.54 | 1.36 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.4 | -1.04 |
| TRUE | 1/1 | 1/1 | 7.34 | 7.4 | -1.04 |
| TRUE | 1/1 | 1/1 | 4.73 | 5.19 | -1.37 |
| TRUE | 1/1 | 1/1 | 4.73 | 5.19 | -1.37 |
| TRUE | 1/1 | 1/1 | 6.55 | 6.84 | -1.22 |
| TRUE | 1/1 | 1/1 | 6.55 | 6.84 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.72 | 1.56 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.72 | 1.56 |
| TRUE | 1/1 | 1/1 | 4.37 | 3.72 | 1.56 |
| TRUE | 1/1 | 1/1 | 4.16 | 3.71 | 1.37 |
| TRUE | 1/1 | 1/1 | 4.16 | 3.71 | 1.37 |
| TRUE | 1/1 | 1/1 | 3.19 | 3.16 | 1.02 |
| TRUE | 1/1 | 1/1 | 3.19 | 3.16 | 1.02 |
| TRUE | 1/1 | 1/1 | 9.61 | 8.82 | 1.72 |
| TRUE | 1/1 | 1/1 | 9.61 | 8.82 | 1.72 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 7.76 | 4.98 | 6.86 |
| TRUE | 1/1 | 1/1 | 5.72 | 3.98 | 3.34 |
| TRUE | 1/1 | 1/1 | 5.72 | 3.98 | 3.34 |
| TRUE | 1/1 | 1/1 | 5.72 | 3.98 | 3.34 |
| TRUE | 1/1 | 1/1 | 5.72 | 3.98 | 3.34 |
| TRUE | 1/1 | 1/1 | 5.72 | 3.98 | 3.34 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 8.87 | 4.34 | 23.11 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 3.55 | 2.66 | 1.84 |
| TRUE | 1/1 | 1/1 | 3.55 | 2.66 | 1.84 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.25 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.25 | -1.7 |
| TRUE | 1/1 | 1/1 | 6.48 | 7.25 | -1.7 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.39 | 1.09 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.39 | 1.09 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.39 | 1.09 |
| TRUE | 1/1 | 1/1 | 8.51 | 8.39 | 1.09 |
| TRUE | 1/1 | 1/1 | 4.72 | 4.8 | -1.06 |
| TRUE | 1/1 | 1/1 | 4.72 | 4.8 | -1.06 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 3.55 | 2.66 | 1.84 |
| TRUE | 1/1 | 1/1 | 3.55 | 2.66 | 1.84 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 3.55 | 2.66 | 1.84 |
| TRUE | 1/1 | 1/1 | 3.55 | 2.66 | 1.84 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 6.08 | 6.8 | -1.64 |
| TRUE | 1/1 | 1/1 | 5.74 | 4.43 | 2.49 |
| TRUE | 1/1 | 1/1 | 5.74 | 4.43 | 2.49 |
| TRUE | 1/1 | 1/1 | 5.74 | 4.43 | 2.49 |
| TRUE | 1/1 | 1/1 | 5.74 | 4.43 | 2.49 |
| TRUE | 1/1 | 1/1 | 8.75 | 7.53 | 2.33 |
| TRUE | 1/1 | 1/1 | 8.75 | 7.53 | 2.33 |
| TRUE | 1/1 | 1/1 | 7.03 | 7 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.03 | 7 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.44 | 1.27 |
| TRUE | 1/1 | 1/1 | 5.79 | 5.44 | 1.27 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.04 | 1.21 |
| TRUE | 1/1 | 1/1 | 8.31 | 8.04 | 1.21 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.59 | 1.31 |
| TRUE | 1/1 | 1/1 | 4.98 | 4.59 | 1.31 |
| TRUE | 1/1 | 1/1 | 5.6 | 4.65 | 1.94 |
| TRUE | 1/1 | 1/1 | 5.6 | 4.65 | 1.94 |
| TRUE | 1/1 | 1/1 | 10.25 | 10.28 | -1.02 |
| TRUE | 1/1 | 1/1 | 10.25 | 10.28 | -1.02 |
| TRUE | 1/1 | 1/1 | 10.25 | 10.28 | -1.02 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.2 | 6.96 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.96 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.2 | 6.96 | 1.18 |
| TRUE | 1/1 | 1/1 | 8.89 | 6.32 | 5.96 |
| TRUE | 1/1 | 1/1 | 8.89 | 6.32 | 5.96 |
| TRUE | 1/1 | 1/1 | 8.89 | 6.32 | 5.96 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.29 | 2.31 |
| TRUE | 1/1 | 1/1 | 5.5 | 4.29 | 2.31 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.75 | 3.68 | 8.35 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.53 | 6.26 | 1.2 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.02 | 1.25 |
| TRUE | 1/1 | 1/1 | 6.35 | 6.02 | 1.25 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 4.32 | 4.61 | -1.22 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.6 | 1.06 |
| TRUE | 1/1 | 1/1 | 7.69 | 7.6 | 1.06 |
| TRUE | 1/1 | 1/1 | 9.82 | 10.36 | -1.45 |
| TRUE | 1/1 | 1/1 | 9.82 | 10.36 | -1.45 |
| TRUE | 1/1 | 1/1 | 9.82 | 10.36 | -1.45 |
| TRUE | 1/1 | 1/1 | 7.92 | 6.01 | 3.75 |
| TRUE | 1/1 | 1/1 | 7.92 | 6.01 | 3.75 |
| TRUE | 1/1 | 1/1 | 7.92 | 6.01 | 3.75 |
| TRUE | 1/1 | 1/1 | 7.92 | 6.01 | 3.75 |
| TRUE | 1/1 | 1/1 | 7.92 | 6.01 | 3.75 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.16 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.15 | 6.16 | -1.01 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.71 | 1.62 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.71 | 1.62 |
| TRUE | 1/1 | 1/1 | 7.4 | 6.71 | 1.62 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 6.67 | 6.2 | 1.39 |
| TRUE | 1/1 | 1/1 | 8.55 | 7.72 | 1.78 |
| TRUE | 1/1 | 1/1 | 8.55 | 7.72 | 1.78 |
| TRUE | 1/1 | 1/1 | 8.55 | 7.72 | 1.78 |
| TRUE | 1/1 | 1/1 | 11.44 | 10.06 | 2.59 |
| TRUE | 1/1 | 1/1 | 11.44 | 10.06 | 2.59 |
| TRUE | 1/1 | 1/1 | 11.44 | 10.06 | 2.59 |
| TRUE | 1/1 | 1/1 | 11.44 | 10.06 | 2.59 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.44 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.44 | -1.06 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.44 | -1.06 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 7.11 | 6.7 | 1.34 |
| TRUE | 1/1 | 1/1 | 7.11 | 6.7 | 1.34 |
| TRUE | 1/1 | 1/1 | 12.15 | 10.43 | 3.28 |
| TRUE | 1/1 | 1/1 | 12.15 | 10.43 | 3.28 |
| TRUE | 1/1 | 1/1 | 12.15 | 10.43 | 3.28 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.77 | 1.2 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.77 | 1.2 |
| TRUE | 1/1 | 1/1 | 5.3 | 5.08 | 1.16 |
| TRUE | 1/1 | 1/1 | 5.3 | 5.08 | 1.16 |
| TRUE | 1/1 | 1/1 | 9.62 | 9.44 | 1.13 |
| TRUE | 1/1 | 1/1 | 9.62 | 9.44 | 1.13 |
| TRUE | 1/1 | 1/1 | 9.62 | 9.44 | 1.13 |
| TRUE | 1/1 | 1/1 | 7.74 | 7.31 | 1.34 |
| TRUE | 1/1 | 1/1 | 7.74 | 7.31 | 1.34 |
| TRUE | 1/1 | 1/1 | 4.96 | 4.81 | 1.11 |
| TRUE | 1/1 | 1/1 | 4.96 | 4.81 | 1.11 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.73 | 1.6 |
| TRUE | 1/1 | 1/1 | 6.41 | 5.73 | 1.6 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.15 | -1.6 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.15 | -1.6 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.15 | -1.6 |
| TRUE | 1/1 | 1/1 | 3.46 | 4.15 | -1.6 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.22 | 1.15 |
| TRUE | 1/1 | 1/1 | 7.42 | 7.22 | 1.15 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.73 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.73 | 1.24 |
| TRUE | 1/1 | 1/1 | 5.04 | 4.73 | 1.24 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.13 | 1.27 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.13 | 1.27 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.13 | 1.27 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.13 | 1.27 |
| TRUE | 1/1 | 1/1 | 4.47 | 4.13 | 1.27 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.52 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.52 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.52 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.42 | 6.52 | -1.07 |
| TRUE | 1/1 | 1/1 | 9.45 | 9.34 | 1.08 |
| TRUE | 1/1 | 1/1 | 9.45 | 9.34 | 1.08 |
| TRUE | 1/1 | 1/1 | 9.45 | 9.34 | 1.08 |
| TRUE | 1/1 | 1/1 | 5.44 | 5.75 | -1.24 |
| TRUE | 1/1 | 1/1 | 5.44 | 5.75 | -1.24 |
| TRUE | 1/1 | 1/1 | 5.47 | 4.84 | 1.54 |
| TRUE | 1/1 | 1/1 | 5.47 | 4.84 | 1.54 |
| TRUE | 1/1 | 1/1 | 6.35 | 5.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 6.35 | 5.9 | 1.37 |
| TRUE | 1/1 | 1/1 | 3.71 | 3.24 | 1.38 |
| TRUE | 1/1 | 1/1 | 3.71 | 3.24 | 1.38 |
| TRUE | 1/1 | 1/1 | 9.33 | 8.05 | 2.42 |
| TRUE | 1/1 | 1/1 | 9.33 | 8.05 | 2.42 |
| TRUE | 1/1 | 1/1 | 3.8 | 3.32 | 1.39 |
| TRUE | 1/1 | 1/1 | 3.8 | 3.32 | 1.39 |
| TRUE | 1/1 | 1/1 | 11.12 | 8.63 | 5.62 |
| TRUE | 1/1 | 1/1 | 11.12 | 8.63 | 5.62 |
| TRUE | 1/1 | 1/1 | 11.12 | 8.63 | 5.62 |
| TRUE | 1/1 | 1/1 | 11.12 | 8.63 | 5.62 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.59 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.59 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.26 | 7.23 | 1.02 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 7.26 | 7.23 | 1.02 |
| TRUE | 1/1 | 1/1 | 4.43 | 4.22 | 1.16 |
| TRUE | 1/1 | 1/1 | 4.43 | 4.22 | 1.16 |
| TRUE | 1/1 | 1/1 | 7.98 | 7.57 | 1.33 |
| TRUE | 1/1 | 1/1 | 7.98 | 7.57 | 1.33 |
| TRUE | 1/1 | 1/1 | 11.24 | 8.92 | 4.99 |
| TRUE | 1/1 | 1/1 | 11.24 | 8.92 | 4.99 |
| TRUE | 1/1 | 1/1 | 11.24 | 8.92 | 4.99 |
| TRUE | 1/1 | 1/1 | 11.24 | 8.92 | 4.99 |
| TRUE | 1/1 | 1/1 | 11.24 | 8.92 | 4.99 |
| TRUE | 1/1 | 1/1 | 11.24 | 8.92 | 4.99 |
| TRUE | 1/1 | 1/1 | 8.99 | 7.9 | 2.12 |
| TRUE | 1/1 | 1/1 | 8.99 | 7.9 | 2.12 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 7.64 | 5.32 | 4.98 |
| TRUE | 1/1 | 1/1 | 10.59 | 9.8 | 1.72 |
| TRUE | 1/1 | 1/1 | 10.59 | 9.8 | 1.72 |
| TRUE | 1/1 | 1/1 | 10.59 | 9.8 | 1.72 |
| TRUE | 1/1 | 1/1 | 10.86 | 7.98 | 7.39 |
| TRUE | 1/1 | 1/1 | 10.86 | 7.98 | 7.39 |
| TRUE | 1/1 | 1/1 | 10.86 | 7.98 | 7.39 |
| TRUE | 1/1 | 1/1 | 10.86 | 7.98 | 7.39 |
| TRUE | 1/1 | 1/1 | 10.86 | 7.98 | 7.39 |
| TRUE | 1/1 | 1/1 | 3.6 | 2.66 | 1.91 |
| TRUE | 1/1 | 1/1 | 3.6 | 2.66 | 1.91 |
| TRUE | 1/1 | 1/1 | 5.61 | 5.39 | 1.16 |
| TRUE | 1/1 | 1/1 | 5.61 | 5.39 | 1.16 |
| TRUE | 1/1 | 1/1 | 5.61 | 5.39 | 1.16 |
| TRUE | 1/1 | 1/1 | 3.75 | 4.62 | -1.83 |
| TRUE | 1/1 | 1/1 | 3.75 | 4.62 | -1.83 |
| TRUE | 1/1 | 1/1 | 5.67 | 3.75 | 3.8 |
| TRUE | 1/1 | 1/1 | 5.67 | 3.75 | 3.8 |
| TRUE | 1/1 | 1/1 | 5.67 | 3.75 | 3.8 |
| TRUE | 1/1 | 1/1 | 5.81 | 5.78 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.81 | 5.78 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.81 | 5.78 | 1.02 |
| TRUE | 1/1 | 1/1 | 9.95 | 9.56 | 1.31 |
| TRUE | 1/1 | 1/1 | 9.95 | 9.56 | 1.31 |
| TRUE | 1/1 | 1/1 | 7.21 | 7.02 | 1.14 |
| TRUE | 1/1 | 1/1 | 7.21 | 7.02 | 1.14 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.47 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.47 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.47 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.47 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.47 | 1.18 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.3 | 1.39 |
| TRUE | 1/1 | 1/1 | 7.78 | 7.3 | 1.39 |
| TRUE | 1/1 | 1/1 | 4.58 | 3.64 | 1.92 |
| TRUE | 1/1 | 1/1 | 4.58 | 3.64 | 1.92 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.58 | 3.64 | 1.92 |
| TRUE | 1/1 | 1/1 | 4.26 | 4.9 | -1.56 |
| TRUE | 1/1 | 1/1 | 4.26 | 4.9 | -1.56 |
| TRUE | 1/1 | 1/1 | 5.12 | 4.96 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.12 | 4.96 | 1.12 |
| TRUE | 1/1 | 1/1 | 5.71 | 5.52 | 1.14 |
| TRUE | 1/1 | 1/1 | 5.71 | 5.52 | 1.14 |
| TRUE | 1/1 | 1/1 | 9.44 | 9.22 | 1.17 |
| TRUE | 1/1 | 1/1 | 9.44 | 9.22 | 1.17 |
| TRUE | 1/1 | 1/1 | 9.93 | 7.93 | 4 |
| TRUE | 1/1 | 1/1 | 9.93 | 7.93 | 4 |
| TRUE | 1/1 | 1/1 | 6.09 | 5.96 | 1.09 |
| TRUE | 1/1 | 1/1 | 6.09 | 5.96 | 1.09 |
| TRUE | 1/1 | 1/1 | 6.09 | 5.96 | 1.09 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 8.43 | 7.05 | 2.6 |
| TRUE | 1/1 | 1/1 | 3.61 | 3.98 | -1.28 |
| TRUE | 1/1 | 1/1 | 3.61 | 3.98 | -1.28 |
| TRUE | 1/1 | 1/1 | 3.61 | 3.98 | -1.28 |
| TRUE | 1/1 | 1/1 | 6.46 | 5.04 | 2.68 |
| TRUE | 1/1 | 1/1 | 6.46 | 5.04 | 2.68 |
| TRUE | 1/1 | 1/1 | 9.27 | 7.39 | 3.68 |
| TRUE | 1/1 | 1/1 | 9.27 | 7.39 | 3.68 |
| TRUE | 1/1 | 1/1 | 9.27 | 7.39 | 3.68 |
| TRUE | 1/1 | 1/1 | 10.48 | 7 | 11.18 |
| TRUE | 1/1 | 1/1 | 10.48 | 7 | 11.18 |
| TRUE | 1/1 | 1/1 | 10.48 | 7 | 11.18 |
| TRUE | 1/1 | 1/1 | 10.48 | 7 | 11.18 |
| TRUE | 1/1 | 1/1 | 10.48 | 7 | 11.18 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 7.63 | 6.69 | 1.92 |
| TRUE | 1/1 | 1/1 | 6 | 6.03 | -1.02 |
| TRUE | 1/1 | 1/1 | 6 | 6.03 | -1.02 |
| TRUE | 1/1 | 1/1 | 8.5 | 8.65 | -1.11 |
| TRUE | 1/1 | 1/1 | 8.5 | 8.65 | -1.11 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.29 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.29 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.34 | 1.02 |
| TRUE | 1/1 | 1/1 | 7.37 | 7.34 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.21 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.5 | 6.21 | -1.63 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.9 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.9 | 1.02 |
| TRUE | 1/1 | 1/1 | 5.93 | 5.9 | 1.02 |
| TRUE | 1/1 | 1/1 | 10.15 | 10.36 | -1.16 |
| TRUE | 1/1 | 1/1 | 10.15 | 10.36 | -1.16 |
| TRUE | 1/1 | 1/1 | 7.12 | 7.57 | -1.36 |
| TRUE | 1/1 | 1/1 | 7.12 | 7.57 | -1.36 |

| | | | | | |
|------|-----|-----|------|------|-------|
| TRUE | 1/1 | 1/1 | 7.12 | 7.57 | -1.36 |
| TRUE | 1/1 | 1/1 | 5.68 | 3.11 | 5.91 |
| TRUE | 1/1 | 1/1 | 5.68 | 3.11 | 5.91 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.3 | 1.46 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.3 | 1.46 |
| TRUE | 1/1 | 1/1 | 5.85 | 5.3 | 1.46 |
| TRUE | 1/1 | 1/1 | 5 | 5.18 | -1.13 |
| TRUE | 1/1 | 1/1 | 5 | 5.18 | -1.13 |
| TRUE | 1/1 | 1/1 | 5 | 5.18 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.14 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.14 | 1.49 |
| TRUE | 1/1 | 1/1 | 6.71 | 6.14 | 1.49 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.93 | -1.5 |
| TRUE | 1/1 | 1/1 | 7.35 | 7.93 | -1.5 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.52 | 1.68 |
| TRUE | 1/1 | 1/1 | 7.27 | 6.52 | 1.68 |
| TRUE | 1/1 | 1/1 | 3.81 | 3.14 | 1.59 |
| TRUE | 1/1 | 1/1 | 3.81 | 3.14 | 1.59 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.86 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.86 | -1.26 |
| TRUE | 1/1 | 1/1 | 5.53 | 5.86 | -1.26 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.42 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.42 | -1.14 |
| TRUE | 1/1 | 1/1 | 7.23 | 7.42 | -1.14 |
| TRUE | 1/1 | 1/1 | 9.34 | 9 | 1.26 |
| TRUE | 1/1 | 1/1 | 9.34 | 9 | 1.26 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.69 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.69 | 1.21 |
| TRUE | 1/1 | 1/1 | 5.96 | 5.69 | 1.21 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.2 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.2 | -1.13 |
| TRUE | 1/1 | 1/1 | 9.02 | 9.2 | -1.13 |
| TRUE | 1/1 | 1/1 | 6.11 | 5.35 | 1.69 |
| TRUE | 1/1 | 1/1 | 6.11 | 5.35 | 1.69 |
| TRUE | 1/1 | 1/1 | 7.68 | 5.91 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.68 | 5.91 | 3.41 |
| TRUE | 1/1 | 1/1 | 7.93 | 8.2 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.93 | 8.2 | -1.21 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.75 | 3.72 |
| TRUE | 1/1 | 1/1 | 8.65 | 6.75 | 3.72 |
| TRUE | 1/1 | 1/1 | 4.11 | 3.48 | 1.55 |
| TRUE | 1/1 | 1/1 | 4.11 | 3.48 | 1.55 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.97 | 2.49 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.97 | 2.49 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.97 | 2.49 |
| TRUE | 1/1 | 1/1 | 9.29 | 7.97 | 2.49 |
| TRUE | 1/1 | 1/1 | 7.44 | 6.33 | 2.17 |
| TRUE | 1/1 | 1/1 | 7.44 | 6.33 | 2.17 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.59 | 1.68 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.59 | 1.68 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.59 | 1.68 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.59 | 1.68 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.59 | 1.68 |
| TRUE | 1/1 | 1/1 | 9.34 | 8.59 | 1.68 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.76 | -1.29 |
| TRUE | 1/1 | 1/1 | 8.39 | 8.76 | -1.29 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.06 | -1.18 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.06 | -1.18 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 4.83 | 5.06 | -1.18 |
| TRUE | 1/1 | 1/1 | 4.83 | 5.06 | -1.18 |
| TRUE | 1/1 | 1/1 | 5.47 | 3.67 | 3.49 |
| TRUE | 1/1 | 1/1 | 5.47 | 3.67 | 3.49 |
| TRUE | 1/1 | 1/1 | 5.47 | 3.67 | 3.49 |
| TRUE | 1/1 | 1/1 | 5.47 | 3.67 | 3.49 |
| TRUE | 1/1 | 1/1 | 5.47 | 3.67 | 3.49 |
| TRUE | 1/1 | 1/1 | 9.86 | 9.72 | 1.1 |
| TRUE | 1/1 | 1/1 | 9.86 | 9.72 | 1.1 |
| TRUE | 1/1 | 1/1 | 10.17 | 9.08 | 2.12 |
| TRUE | 1/1 | 1/1 | 10.17 | 9.08 | 2.12 |
| TRUE | 1/1 | 1/1 | 10.17 | 9.08 | 2.12 |
| TRUE | 1/1 | 1/1 | 8.67 | 8.41 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.67 | 8.41 | 1.2 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 8.52 | 5.09 | 10.81 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.66 | -1.21 |
| TRUE | 1/1 | 1/1 | 7.39 | 7.66 | -1.21 |
| TRUE | 1/1 | 1/1 | 10.88 | 11.04 | -1.12 |
| TRUE | 1/1 | 1/1 | 10.88 | 11.04 | -1.12 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.18 | 1.18 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.18 | 1.18 |
| TRUE | 1/1 | 1/1 | 5.42 | 5.18 | 1.18 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.79 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.79 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.96 | 6.79 | 1.12 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.99 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.88 | 6.99 | -1.07 |
| TRUE | 1/1 | 1/1 | 6.26 | 5.15 | 2.16 |
| TRUE | 1/1 | 1/1 | 6.26 | 5.15 | 2.16 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.32 | 1.13 |
| TRUE | 1/1 | 1/1 | 6.5 | 6.32 | 1.13 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.99 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.99 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.02 | 5.99 | 1.02 |
| TRUE | 1/1 | 1/1 | 6.44 | 6 | 1.36 |

| | | | | | |
|------|-----|-----|-------|-------|-------|
| TRUE | 1/1 | 1/1 | 5.25 | 4.42 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.42 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.42 | 1.79 |
| TRUE | 1/1 | 1/1 | 5.25 | 4.42 | 1.79 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.01 | -1.46 |
| TRUE | 1/1 | 1/1 | 6.47 | 7.01 | -1.46 |
| TRUE | 1/1 | 1/1 | 10.35 | 10.34 | 1.01 |
| TRUE | 1/1 | 1/1 | 10.35 | 10.34 | 1.01 |
| TRUE | 1/1 | 1/1 | 10.35 | 10.34 | 1.01 |
| TRUE | 1/1 | 1/1 | 10.35 | 10.34 | 1.01 |
| TRUE | 1/1 | 1/1 | 4.9 | 5.01 | -1.09 |
| TRUE | 1/1 | 1/1 | 4.9 | 5.01 | -1.09 |
| TRUE | 1/1 | 1/1 | 9.2 | 8.95 | 1.19 |
| TRUE | 1/1 | 1/1 | 9.2 | 8.95 | 1.19 |
| TRUE | 1/1 | 1/1 | 4.91 | 4.86 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.91 | 4.86 | 1.04 |
| TRUE | 1/1 | 1/1 | 4.91 | 4.86 | 1.04 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.72 | -1.1 |
| TRUE | 1/1 | 1/1 | 8.59 | 8.72 | -1.1 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 8.37 | 6.04 | 5.02 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.78 | -1.65 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.78 | -1.65 |
| TRUE | 1/1 | 1/1 | 7.06 | 7.78 | -1.65 |
| TRUE | 1/1 | 1/1 | 6.81 | 6.71 | 1.07 |
| TRUE | 1/1 | 1/1 | 6.81 | 6.71 | 1.07 |
| TRUE | 1/1 | 1/1 | 4.71 | 4.38 | 1.26 |
| TRUE | 1/1 | 1/1 | 4.71 | 4.38 | 1.26 |
| TRUE | 1/1 | 1/1 | 4.71 | 4.38 | 1.26 |
| TRUE | 1/1 | 1/1 | 8.26 | 7.39 | 1.82 |
| TRUE | 1/1 | 1/1 | 8.26 | 7.39 | 1.82 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.33 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.1 | 7.33 | -1.17 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.83 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.83 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.83 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.83 | 1.01 |
| TRUE | 1/1 | 1/1 | 7.84 | 7.83 | 1.01 |
| TRUE | 1/1 | 1/1 | 10.32 | 8.01 | 4.99 |
| TRUE | 1/1 | 1/1 | 10.32 | 8.01 | 4.99 |
| TRUE | 1/1 | 1/1 | 10.32 | 8.01 | 4.99 |
| TRUE | 1/1 | 1/1 | 10.32 | 8.01 | 4.99 |
| TRUE | 1/1 | 1/1 | 10.32 | 8.01 | 4.99 |
| TRUE | 1/1 | 1/1 | 7.54 | 5 | 5.8 |
| TRUE | 1/1 | 1/1 | 7.54 | 5 | 5.8 |
| TRUE | 1/1 | 1/1 | 6.13 | 5.78 | 1.28 |
| TRUE | 1/1 | 1/1 | 6.13 | 5.78 | 1.28 |
| TRUE | 1/1 | 1/1 | 6.13 | 5.78 | 1.28 |
| TRUE | 1/1 | 1/1 | 10.53 | 7.11 | 10.72 |
| TRUE | 1/1 | 1/1 | 10.53 | 7.11 | 10.72 |
| TRUE | 1/1 | 1/1 | 10.53 | 7.11 | 10.72 |
| TRUE | 1/1 | 1/1 | 10.53 | 7.11 | 10.72 |

| | | | | | |
|------|-----|-----|-------|------|-------|
| TRUE | 1/1 | 1/1 | 9.02 | 6.44 | 5.96 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 9.56 | 6.29 | 9.63 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.71 | 8.15 | 5.91 |
| TRUE | 1/1 | 1/1 | 10.64 | 8.11 | 5.79 |
| TRUE | 1/1 | 1/1 | 10.64 | 8.11 | 5.79 |
| TRUE | 1/1 | 1/1 | 10.64 | 8.11 | 5.79 |
| TRUE | 1/1 | 1/1 | 10.64 | 8.11 | 5.79 |
| TRUE | 1/1 | 1/1 | 10.64 | 8.11 | 5.79 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.34 | -1.01 |
| TRUE | 1/1 | 1/1 | 6.33 | 6.34 | -1.01 |
| TRUE | 1/1 | 1/1 | 10.57 | 8.29 | 4.85 |
| TRUE | 1/1 | 1/1 | 10.57 | 8.29 | 4.85 |
| TRUE | 1/1 | 1/1 | 9.4 | 6.23 | 9.01 |
| TRUE | 1/1 | 1/1 | 9.4 | 6.23 | 9.01 |

| Chromosome | Genomic Position | Eligible | 6 PSR/JUC Expressed | 4 PSR/JUC Expressed |
|------------|-----------------------|------------|---------------------|---------------------|
| 2 | 20232411 - 20251789 | T - 66.67% | TRUE | FALSE |
| 2 | 20232411 - 20251789 | | TRUE | TRUE |
| 1 | 111659954 - 111682838 | | TRUE | FALSE |
| 1 | 111659954 - 111682838 | | TRUE | TRUE |
| 1 | 111659954 - 111682838 | | TRUE | FALSE |
| 1 | 111659954 - 111682838 | F - 37.50% | TRUE | TRUE |
| 1 | 111659954 - 111682838 | | TRUE | TRUE |
| 1 | 111659954 - 111682838 | | TRUE | TRUE |
| 1 | 111659954 - 111682838 | | FALSE | TRUE |
| 17 | 30335037 - 30380519 | F - 37.50% | TRUE | TRUE |
| 17 | 30335037 - 30380519 | | TRUE | FALSE |
| 17 | 30335037 - 30380519 | | TRUE | TRUE |
| 18 | 66382491 - 66722426 | | TRUE | FALSE |
| 18 | 66382491 - 66722426 | F - 33.33% | TRUE | TRUE |
| 18 | 66382491 - 66722426 | | TRUE | TRUE |
| 18 | 66382491 - 66722426 | F - 33.33% | TRUE | TRUE |
| 18 | 66382491 - 66722426 | F - 22.22% | TRUE | TRUE |
| 18 | 66382491 - 66722426 | F - 44.44% | FALSE | TRUE |
| 18 | 66382491 - 66722426 | F - 22.22% | TRUE | TRUE |
| 18 | 66382491 - 66722426 | F - 11.11% | FALSE | TRUE |
| 18 | 66382491 - 66722426 | | FALSE | TRUE |
| 18 | 66382491 - 66722426 | | TRUE | TRUE |
| 18 | 66382491 - 66722426 | F - 11.11% | FALSE | TRUE |
| 18 | 66382491 - 66722426 | F - 22.22% | FALSE | TRUE |
| 18 | 66382491 - 66722426 | | TRUE | TRUE |
| 18 | 66382491 - 66722426 | F - 11.11% | FALSE | TRUE |
| 18 | 66382491 - 66722426 | | FALSE | TRUE |
| 18 | 66382491 - 66722426 | T - 66.67% | TRUE | TRUE |
| 18 | 66382491 - 66722426 | | FALSE | TRUE |
| 18 | 66382491 - 66722426 | | FALSE | TRUE |
| 3 | 41236328 - 41301587 | | TRUE | FALSE |
| 3 | 41236328 - 41301587 | F - 4.17% | TRUE | TRUE |
| 3 | 41236328 - 41301587 | F - 16.67% | TRUE | FALSE |
| 3 | 41236328 - 41301587 | F - 16.67% | TRUE | TRUE |
| 3 | 41236328 - 41301587 | | TRUE | TRUE |
| 3 | 41236328 - 41301587 | F - 37.50% | TRUE | TRUE |
| 3 | 41236328 - 41301587 | F - 20.83% | TRUE | TRUE |
| 3 | 41236328 - 41301587 | | TRUE | FALSE |
| 3 | 41236328 - 41301587 | | TRUE | FALSE |
| 3 | 41236328 - 41301587 | | TRUE | TRUE |
| 3 | 41236328 - 41301587 | | TRUE | TRUE |
| 3 | 41236328 - 41301587 | F - 4.17% | TRUE | TRUE |
| 3 | 41236328 - 41301587 | | TRUE | TRUE |
| 3 | 41236328 - 41301587 | F - 33.33% | FALSE | TRUE |
| 3 | 41236328 - 41301587 | F - 4.17% | FALSE | TRUE |
| 3 | 41236328 - 41301587 | | TRUE | TRUE |
| 3 | 41236328 - 41301587 | F - 4.17% | FALSE | TRUE |
| 14 | 34393421 - 34638972 | | TRUE | FALSE |
| 14 | 34393421 - 34638972 | F - 14.29% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | | TRUE | TRUE |
| 14 | 34393421 - 34638972 | F - 14.29% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | T - 50.00% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | F - 42.86% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | F - 28.57% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | | FALSE | TRUE |
| 14 | 34393421 - 34638972 | F - 7.14% | FALSE | TRUE |
| 14 | 34393421 - 34638972 | T - 57.14% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 14 | 34393421 - 34638972 | T - 78.57% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | F - 42.86% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | F - 35.71% | FALSE | TRUE |
| 14 | 34393421 - 34638972 | T - 64.29% | FALSE | TRUE |
| 14 | 34393421 - 34638972 | | FALSE | TRUE |
| 14 | 34393421 - 34638972 | T - 71.43% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | T - 71.43% | FALSE | TRUE |
| 14 | 34393421 - 34638972 | T - 78.57% | TRUE | TRUE |
| 14 | 34393421 - 34638972 | | FALSE | TRUE |
| 14 | 34393421 - 34638972 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | TRUE | FALSE |
| 11 | 74407474 - 74442430 | | TRUE | TRUE |
| 11 | 74407474 - 74442430 | F - 9.09% | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | TRUE | TRUE |
| 11 | 74407474 - 74442430 | F - 18.18% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | F - 9.09% | FALSE | TRUE |
| 11 | 74407474 - 74442430 | T - 90.91% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | F - 9.09% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | T - 72.73% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | T - 63.64% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | F - 27.27% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | T - 100.00% | FALSE | TRUE |
| 11 | 74407474 - 74442430 | T - 54.55% | TRUE | TRUE |
| 11 | 74407474 - 74442430 | T - 81.82% | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 11 | 74407474 - 74442430 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | TRUE | FALSE |
| 9 | 87283466 - 87638505 | F - 29.41% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 23.53% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 29.41% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 11.76% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | F - 41.18% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 17.65% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | TRUE | TRUE |
| 9 | 87283466 - 87638505 | T - 64.71% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 47.06% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | T - 58.82% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 23.53% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | F - 23.53% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | F - 29.41% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 23.53% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | F - 35.29% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | T - 94.12% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | TRUE | TRUE |
| 9 | 87283466 - 87638505 | F - 23.53% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | T - 76.47% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | T - 94.12% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 9 | 87283466 - 87638505 | F - 41.18% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | T - 94.12% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | T - 94.12% | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | T - 94.12% | TRUE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 9 | 87283466 - 87638505 | | FALSE | TRUE |
| 5 | 79287134 - 79379110 | | TRUE | TRUE |
| 5 | 79287134 - 79379110 | | TRUE | TRUE |
| 5 | 79287134 - 79379110 | | TRUE | FALSE |
| 5 | 79287134 - 79379110 | | TRUE | TRUE |
| 5 | 79287134 - 79379110 | | TRUE | TRUE |
| 5 | 79287134 - 79379110 | T - 55.56% | TRUE | TRUE |
| 5 | 79287134 - 79379110 | | TRUE | TRUE |
| 11 | 102706528 - 102714534 | F - 11.11% | TRUE | TRUE |
| 11 | 102706528 - 102714534 | | FALSE | TRUE |
| 11 | 102706528 - 102714534 | F - 11.11% | FALSE | TRUE |
| 11 | 102706528 - 102714534 | | FALSE | TRUE |
| 11 | 102706528 - 102714534 | | FALSE | TRUE |
| 11 | 102706528 - 102714534 | T - 55.56% | FALSE | TRUE |
| 11 | 102706528 - 102714534 | F - 33.33% | FALSE | TRUE |
| 11 | 102706528 - 102714534 | | FALSE | TRUE |
| 11 | 102706528 - 102714534 | T - 88.89% | FALSE | TRUE |
| 11 | 102706528 - 102714534 | | FALSE | TRUE |
| 11 | 102706528 - 102714534 | | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | TRUE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | TRUE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 10.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 40.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | F - 35.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 10.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 15.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 5.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 25.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | F - 45.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | F - 10.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 20.00% | FALSE | TRUE |
| 4 | 23756664 - 23905712 | F - 20.00% | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 4 | 23756664 - 23905712 | F - 45.00% | TRUE | TRUE |
| 4 | 23756664 - 23905712 | | TRUE | TRUE |
| 7 | 136553399 - 136705002 | F - 16.67% | TRUE | TRUE |
| 7 | 136553399 - 136705002 | | FALSE | TRUE |
| 7 | 136553399 - 136705002 | F - 33.33% | TRUE | TRUE |
| 7 | 136553399 - 136705002 | | TRUE | TRUE |
| 7 | 136553399 - 136705002 | F - 11.11% | FALSE | TRUE |
| 7 | 136553399 - 136705002 | F - 11.11% | TRUE | TRUE |
| 7 | 136553399 - 136705002 | T - 94.44% | TRUE | TRUE |
| 7 | 136553399 - 136705002 | F - 5.56% | TRUE | TRUE |
| 7 | 136553399 - 136705002 | | FALSE | TRUE |
| 7 | 136553399 - 136705002 | | FALSE | TRUE |
| 7 | 136553399 - 136705002 | | FALSE | TRUE |
| 7 | 136553399 - 136705002 | F - 22.22% | TRUE | TRUE |
| 7 | 136553399 - 136705002 | F - 16.67% | FALSE | TRUE |
| 7 | 136553399 - 136705002 | | FALSE | TRUE |
| 7 | 136553399 - 136705002 | T - 77.78% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | TRUE | TRUE |
| 3 | 148880197 - 148939842 | F - 9.09% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 9.09% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | TRUE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 4.55% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | F - 13.64% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | F - 13.64% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 18.18% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 4.55% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 9.09% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | F - 4.55% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 13.64% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | TRUE | TRUE |
| 3 | 148880197 - 148939842 | F - 4.55% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 9.09% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | | TRUE | TRUE |
| 3 | 148880197 - 148939842 | T - 68.18% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | T - 59.09% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | T - 63.64% | FALSE | TRUE |
| 3 | 148880197 - 148939842 | F - 40.91% | TRUE | TRUE |
| 3 | 148880197 - 148939842 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | FALSE |
| 7 | 43152198 - 43602938 | | TRUE | FALSE |
| 7 | 43152198 - 43602938 | F - 26.67% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | FALSE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 26.67% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | FALSE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | FALSE |
| 7 | 43152198 - 43602938 | | TRUE | FALSE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 43152198 - 43602938 | F - 26.67% | TRUE | FALSE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 13.33% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 40.00% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | FALSE |
| 7 | 43152198 - 43602938 | F - 46.67% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 20.00% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 40.00% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 20.00% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 33.33% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | FALSE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 6.67% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | F - 13.33% | FALSE | TRUE |
| 7 | 43152198 - 43602938 | F - 6.67% | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 7 | 43152198 - 43602938 | | TRUE | TRUE |
| 12 | 57628686 - 57634498 | F - 16.67% | TRUE | TRUE |
| 12 | 57628686 - 57634498 | | TRUE | TRUE |
| 12 | 57628686 - 57634498 | F - 16.67% | TRUE | TRUE |
| 12 | 57628686 - 57634498 | T - 50.00% | TRUE | TRUE |
| 12 | 57628686 - 57634498 | | FALSE | TRUE |
| 12 | 57628686 - 57634498 | T - 66.67% | TRUE | TRUE |
| 12 | 57628686 - 57634498 | T - 66.67% | TRUE | TRUE |
| 12 | 57628686 - 57634498 | F - 16.67% | TRUE | TRUE |
| 12 | 57628686 - 57634498 | F - 16.67% | FALSE | TRUE |
| 12 | 57628686 - 57634498 | | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 11.11% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 7.41% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 7.41% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 7.41% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 22.22% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | FALSE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | F - 3.70% | FALSE | TRUE |
| 7 | 130126016 - 130146138 | F - 11.11% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | FALSE | TRUE |
| 7 | 130126016 - 130146138 | T - 81.48% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | FALSE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | T - 81.48% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 130126016 - 130146138 | T - 77.78% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | T - 55.56% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | T - 81.48% | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | TRUE | TRUE |
| 7 | 130126016 - 130146138 | | FALSE | TRUE |
| 18 | 43304092 - 43332485 | | TRUE | FALSE |
| 18 | 43304092 - 43332485 | | TRUE | TRUE |
| 18 | 43304092 - 43332485 | F - 46.67% | TRUE | TRUE |
| 18 | 43304092 - 43332485 | T - 80.00% | TRUE | TRUE |
| 18 | 43304092 - 43332485 | T - 80.00% | TRUE | TRUE |
| 9 | 121915736 - 122131745 | | TRUE | TRUE |
| 9 | 121915736 - 122131745 | T - 71.43% | TRUE | TRUE |
| 9 | 121915736 - 122131745 | F - 14.29% | FALSE | TRUE |
| 9 | 121915736 - 122131745 | F - 42.86% | FALSE | TRUE |
| 9 | 121915736 - 122131745 | | TRUE | TRUE |
| 9 | 121915736 - 122131745 | T - 85.71% | TRUE | TRUE |
| 9 | 121915736 - 122131745 | | TRUE | TRUE |
| 9 | 121915736 - 122131745 | | TRUE | TRUE |
| 9 | 121915736 - 122131745 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | FALSE |
| 13 | 38136719 - 38183563 | F - 4.76% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | F - 9.52% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | T - 76.19% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | F - 4.76% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | T - 52.38% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | F - 47.62% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | T - 85.71% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | T - 66.67% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | T - 66.67% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | F - 42.86% | TRUE | TRUE |
| 13 | 38136719 - 38183563 | | TRUE | TRUE |
| 13 | 38136719 - 38183563 | F - 42.86% | TRUE | FALSE |
| 5 | 95726040 - 95769847 | | TRUE | TRUE |
| 5 | 95726040 - 95769847 | | FALSE | TRUE |
| 5 | 95726040 - 95769847 | F - 12.50% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | F - 37.50% | FALSE | TRUE |
| 5 | 95726040 - 95769847 | F - 25.00% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | F - 37.50% | FALSE | TRUE |
| 5 | 95726040 - 95769847 | F - 25.00% | FALSE | TRUE |
| 5 | 95726040 - 95769847 | F - 25.00% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | T - 50.00% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | | FALSE | TRUE |
| 5 | 95726040 - 95769847 | T - 75.00% | FALSE | TRUE |
| 5 | 95726040 - 95769847 | | TRUE | TRUE |
| 5 | 95726040 - 95769847 | T - 87.50% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | | TRUE | TRUE |
| 5 | 95726040 - 95769847 | | TRUE | TRUE |
| 5 | 95726040 - 95769847 | T - 75.00% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | T - 62.50% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | T - 62.50% | TRUE | TRUE |
| 5 | 95726040 - 95769847 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 5 | 95726040 - 95769847 | | FALSE | TRUE |
| 5 | 95726040 - 95769847 | | FALSE | TRUE |
| 5 | 95726040 - 95769847 | T - 87.50% | FALSE | TRUE |
| 5 | 95726040 - 95769847 | T - 87.50% | FALSE | TRUE |
| 5 | 95726040 - 95769847 | | FALSE | TRUE |
| 8 | 23699428 - 23712320 | | TRUE | TRUE |
| 8 | 23699428 - 23712320 | F - 20.00% | FALSE | TRUE |
| 8 | 23699428 - 23712320 | | FALSE | TRUE |
| 8 | 23699428 - 23712320 | T - 60.00% | FALSE | TRUE |
| 8 | 23699428 - 23712320 | T - 100.00% | TRUE | TRUE |
| 8 | 23699428 - 23712320 | | FALSE | TRUE |
| 8 | 23699428 - 23712320 | | TRUE | TRUE |
| 9 | 114659046 - 114697649 | | TRUE | TRUE |
| 9 | 114659046 - 114697649 | F - 42.86% | TRUE | TRUE |
| 9 | 114659046 - 114697649 | F - 42.86% | FALSE | TRUE |
| 9 | 114659046 - 114697649 | F - 28.57% | TRUE | TRUE |
| 9 | 114659046 - 114697649 | F - 14.29% | FALSE | TRUE |
| 9 | 114659046 - 114697649 | | TRUE | TRUE |
| 9 | 114659046 - 114697649 | F - 14.29% | FALSE | TRUE |
| 9 | 114659046 - 114697649 | F - 14.29% | TRUE | TRUE |
| 9 | 114659046 - 114697649 | | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | FALSE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 5.88% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 5.88% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 5.88% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 1.96% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 3.92% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 41.18% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | T - 62.75% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | | TRUE | TRUE |
| 2 | 216225163 - 216300895 | | TRUE | FALSE |
| 2 | 216225163 - 216300895 | | TRUE | TRUE |
| 2 | 216225163 - 216300895 | | TRUE | FALSE |
| 2 | 216225163 - 216300895 | T - 64.71% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | T - 52.94% | TRUE | TRUE |
| 2 | 216225163 - 216300895 | F - 21.57% | TRUE | TRUE |
| 6_mcf_hap5 | 1292221 - 1295564 | T - 85.71% | TRUE | TRUE |
| 6_mcf_hap5 | 1292221 - 1295564 | F - 14.29% | TRUE | FALSE |
| 6_mcf_hap5 | 1292221 - 1295564 | F - 28.57% | TRUE | FALSE |
| 6_mcf_hap5 | 1292221 - 1295564 | F - 7.14% | TRUE | TRUE |

| | | | | |
|------------|---------------------|------------|-------|-------|
| 6_mcf_hap5 | 1292221 - 1295564 | | TRUE | TRUE |
| 6_mcf_hap5 | 1292221 - 1295564 | F - 7.14% | FALSE | TRUE |
| 6_mcf_hap5 | 1292221 - 1295564 | | TRUE | TRUE |
| 6_mcf_hap5 | 1292221 - 1295564 | | FALSE | TRUE |
| 1 | 66258193 - 66840262 | F - 38.10% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | T - 66.67% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 42.86% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | T - 66.67% | TRUE | FALSE |
| 1 | 66258193 - 66840262 | T - 57.14% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | T - 66.67% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 14.29% | TRUE | FALSE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | FALSE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 38.10% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 9.52% | TRUE | FALSE |
| 1 | 66258193 - 66840262 | F - 4.76% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 14.29% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 9.52% | FALSE | TRUE |
| 1 | 66258193 - 66840262 | F - 9.52% | FALSE | TRUE |
| 1 | 66258193 - 66840262 | T - 61.90% | FALSE | TRUE |
| 1 | 66258193 - 66840262 | F - 14.29% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 42.86% | FALSE | TRUE |
| 1 | 66258193 - 66840262 | T - 80.95% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | T - 66.67% | TRUE | TRUE |
| 1 | 66258193 - 66840262 | F - 9.52% | FALSE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | FALSE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 1 | 66258193 - 66840262 | | TRUE | TRUE |
| 3 | 52728504 - 52740048 | | TRUE | TRUE |
| 3 | 52728504 - 52740048 | F - 3.85% | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | T - 77.78% | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | F - 11.11% | TRUE | FALSE |
| 6_dbb_hap3 | 1202397 - 1207037 | F - 33.33% | TRUE | FALSE |
| 6_dbb_hap3 | 1202397 - 1207037 | F - 5.56% | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | F - 5.56% | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | F - 5.56% | FALSE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | F - 33.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | | TRUE | TRUE |
| 6_dbb_hap3 | 1202397 - 1207037 | | FALSE | TRUE |
| 13 | 36342789 - 36705514 | | TRUE | FALSE |
| 13 | 36342789 - 36705514 | T - 62.50% | TRUE | TRUE |
| 13 | 36342789 - 36705514 | F - 43.75% | TRUE | TRUE |
| 13 | 36342789 - 36705514 | | TRUE | TRUE |
| 13 | 36342789 - 36705514 | F - 43.75% | TRUE | TRUE |
| 13 | 36342789 - 36705514 | | TRUE | FALSE |
| 13 | 36342789 - 36705514 | | TRUE | TRUE |
| 13 | 36342789 - 36705514 | | TRUE | TRUE |
| 13 | 36342789 - 36705514 | F - 12.50% | TRUE | TRUE |
| 13 | 36342789 - 36705514 | F - 18.75% | TRUE | TRUE |
| 13 | 36342789 - 36705514 | F - 43.75% | TRUE | TRUE |

| | | | | |
|---|---------------------|------------|-------|-------|
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 85.71% | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 71.43% | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 85.00% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 90.71% | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 89.29% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 87.14% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 84.29% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 91.43% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 52.14% | TRUE | FALSE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 52.14% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 92.14% | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 2.14% | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 92.86% | TRUE | FALSE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 52.14% | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 30.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 95.00% | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 10.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 35.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 18.57% | TRUE | FALSE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 22.86% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 90.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 96.43% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 93.57% | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 26.43% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 72.86% | TRUE | FALSE |
| Y | 15346461 - 15592553 | T - 52.14% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 89.29% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 95.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 93.57% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | F - 3.57% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | FALSE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |

| | | | | |
|---|-------------------------|------------|-------|-------|
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | F - 27.86% | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 38.57% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 77.86% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 68.57% | TRUE | TRUE |
| Y | 15346461 - 15592553 | T - 92.14% | TRUE | TRUE |
| Y | 15346461 - 15592553 | F - 0.71% | TRUE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| Y | 15346461 - 15592553 | | TRUE | TRUE |
| Y | 15346461 - 15592553 | | FALSE | TRUE |
| | 8 86376081 - 86393722 | F - 12.50% | TRUE | TRUE |
| | 8 86376081 - 86393722 | F - 37.50% | TRUE | TRUE |
| | 8 86376081 - 86393722 | F - 12.50% | FALSE | TRUE |
| | 8 86376081 - 86393722 | | TRUE | TRUE |
| | 8 86376081 - 86393722 | | FALSE | TRUE |
| | 8 86376081 - 86393722 | T - 87.50% | TRUE | TRUE |
| | 8 86376081 - 86393722 | T - 50.00% | FALSE | TRUE |
| | 8 86376081 - 86393722 | | TRUE | TRUE |
| | 8 86376081 - 86393722 | T - 87.50% | FALSE | TRUE |
| | 8 86376081 - 86393722 | | TRUE | TRUE |
| | 8 86376081 - 86393722 | | TRUE | TRUE |
| | 8 86376081 - 86393722 | T - 62.50% | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 23.08% | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | TRUE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | TRUE | TRUE |
| | 3 189674517 - 189840226 | F - 15.38% | TRUE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | FALSE | TRUE |
| | 3 189674517 - 189840226 | | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | FALSE | TRUE |
| | 3 189674517 - 189840226 | F - 7.69% | FALSE | TRUE |
| | 3 189674517 - 189840226 | | TRUE | TRUE |
| | 3 189674517 - 189840226 | | TRUE | TRUE |
| | 3 189674517 - 189840226 | | FALSE | TRUE |
| | 10 6186843 - 6277507 | | TRUE | FALSE |
| | 10 6186843 - 6277507 | | TRUE | TRUE |
| | 10 6186843 - 6277507 | F - 32.26% | TRUE | TRUE |
| | 10 6186843 - 6277507 | F - 6.45% | TRUE | TRUE |
| | 10 6186843 - 6277507 | F - 3.23% | TRUE | TRUE |
| | 10 6186843 - 6277507 | F - 6.45% | TRUE | TRUE |
| | 10 6186843 - 6277507 | F - 9.68% | TRUE | TRUE |
| | 10 6186843 - 6277507 | F - 3.23% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | F - 41.94% | TRUE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | F - 6.45% | FALSE | TRUE |
| 10 | 6186843 - 6277507 | F - 9.68% | TRUE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | FALSE | TRUE |
| 10 | 6186843 - 6277507 | | TRUE | TRUE |
| 10 | 4934796 - 5022159 | | TRUE | TRUE |
| 10 | 4934796 - 5022159 | F - 25.00% | TRUE | TRUE |
| 10 | 4934796 - 5022159 | F - 25.00% | TRUE | TRUE |
| 10 | 4934796 - 5022159 | F - 25.00% | TRUE | TRUE |
| 10 | 4934796 - 5022159 | F - 25.00% | TRUE | TRUE |
| 10 | 4934796 - 5022159 | | FALSE | TRUE |
| 10 | 4934796 - 5022159 | | TRUE | TRUE |
| 10 | 4934796 - 5022159 | | FALSE | TRUE |
| 10 | 4934796 - 5022159 | T - 58.33% | FALSE | TRUE |
| 10 | 4934796 - 5022159 | F - 8.33% | FALSE | TRUE |
| 10 | 4934796 - 5022159 | F - 16.67% | FALSE | TRUE |
| 10 | 4934796 - 5022159 | F - 8.33% | TRUE | TRUE |
| 10 | 4934796 - 5022159 | F - 8.33% | FALSE | TRUE |
| 10 | 4934796 - 5022159 | F - 8.33% | FALSE | TRUE |
| 10 | 4934796 - 5022159 | | TRUE | TRUE |
| 10 | 4934796 - 5022159 | F - 8.33% | FALSE | TRUE |
| 10 | 4934796 - 5022159 | F - 25.00% | TRUE | TRUE |
| 10 | 4934796 - 5022159 | T - 100.00% | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | TRUE | TRUE |
| 8 | 23154410 - 23282841 | F - 5.56% | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | FALSE | TRUE |
| 8 | 23154410 - 23282841 | F - 16.67% | FALSE | TRUE |
| 8 | 23154410 - 23282841 | F - 5.56% | FALSE | TRUE |
| 8 | 23154410 - 23282841 | F - 5.56% | FALSE | TRUE |
| 8 | 23154410 - 23282841 | F - 11.11% | FALSE | TRUE |
| 8 | 23154410 - 23282841 | | TRUE | TRUE |
| 8 | 23154410 - 23282841 | F - 5.56% | TRUE | TRUE |
| 8 | 23154410 - 23282841 | | FALSE | TRUE |
| 8 | 23154410 - 23282841 | F - 5.56% | TRUE | TRUE |
| 1 | 163038396 - 163046592 | | TRUE | TRUE |
| 1 | 163038396 - 163046592 | | TRUE | TRUE |
| 1 | 163038396 - 163046592 | F - 6.67% | TRUE | FALSE |
| 1 | 163038396 - 163046592 | F - 46.67% | TRUE | TRUE |
| 1 | 163038396 - 163046592 | | TRUE | TRUE |
| 1 | 163038396 - 163046592 | T - 80.00% | TRUE | TRUE |
| 1 | 163038396 - 163046592 | F - 6.67% | FALSE | TRUE |
| 1 | 163038396 - 163046592 | F - 13.33% | FALSE | TRUE |
| 1 | 163038396 - 163046592 | T - 66.67% | FALSE | TRUE |
| 1 | 163038396 - 163046592 | T - 73.33% | TRUE | TRUE |
| 1 | 163038396 - 163046592 | T - 73.33% | TRUE | TRUE |
| 1 | 163038396 - 163046592 | | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 3 | 47626762 - 47823596 | F - 14.29% | TRUE | FALSE |
| 3 | 47626762 - 47823596 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | TRUE | TRUE |
| 20 | 36756863 - 36794980 | | TRUE | TRUE |
| 20 | 36756863 - 36794980 | F - 5.88% | TRUE | TRUE |
| 20 | 36756863 - 36794980 | F - 11.76% | FALSE | TRUE |
| 20 | 36756863 - 36794980 | F - 5.88% | TRUE | TRUE |
| 20 | 36756863 - 36794980 | T - 88.24% | TRUE | TRUE |
| 20 | 36756863 - 36794980 | F - 11.76% | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | F - 11.76% | TRUE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 20 | 36756863 - 36794980 | | TRUE | TRUE |
| 20 | 36756863 - 36794980 | | FALSE | TRUE |
| 6 | 43737921 - 43754224 | | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 2.63% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | T - 52.63% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | T - 60.53% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 5.26% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 10.53% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 2.63% | FALSE | TRUE |
| 6 | 43737921 - 43754224 | T - 63.16% | FALSE | TRUE |
| 6 | 43737921 - 43754224 | | FALSE | TRUE |
| 6 | 43737921 - 43754224 | | FALSE | TRUE |
| 6 | 43737921 - 43754224 | F - 10.53% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 2.63% | FALSE | TRUE |
| 6 | 43737921 - 43754224 | | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 34.21% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | | FALSE | TRUE |
| 6 | 43737921 - 43754224 | T - 52.63% | TRUE | TRUE |
| 6 | 43737921 - 43754224 | | TRUE | TRUE |
| 6 | 43737921 - 43754224 | F - 2.63% | FALSE | TRUE |
| 6 | 43737921 - 43754224 | | FALSE | TRUE |
| 19 | 43696854 - 43709926 | F - 10.00% | TRUE | TRUE |
| 19 | 43696854 - 43709926 | | TRUE | TRUE |
| 19 | 43696854 - 43709926 | F - 10.00% | TRUE | TRUE |
| 19 | 43696854 - 43709926 | F - 10.00% | TRUE | TRUE |
| 19 | 43696854 - 43709926 | | FALSE | TRUE |
| 19 | 43696854 - 43709926 | F - 10.00% | TRUE | TRUE |
| 19 | 43696854 - 43709926 | T - 80.00% | TRUE | TRUE |
| 19 | 43696854 - 43709926 | T - 70.00% | FALSE | TRUE |
| 19 | 43696854 - 43709926 | | TRUE | TRUE |
| 19 | 43696854 - 43709926 | | FALSE | TRUE |
| 19 | 43696854 - 43709926 | | FALSE | TRUE |
| 19 | 43696854 - 43709926 | T - 70.00% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | TRUE | FALSE |
| 9 | 43684885 - 43924049 | | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 25.00% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 37.50% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 25.00% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | T - 50.00% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 31.25% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | FALSE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 9 | 43684885 - 43924049 | | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 25.00% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 25.00% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 37.50% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | T - 56.25% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 18.75% | FALSE | TRUE |
| 9 | 43684885 - 43924049 | T - 50.00% | FALSE | TRUE |
| 9 | 43684885 - 43924049 | F - 43.75% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 6.25% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 43.75% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | F - 43.75% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | T - 56.25% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | TRUE | TRUE |
| 9 | 43684885 - 43924049 | T - 56.25% | TRUE | TRUE |
| 9 | 43684885 - 43924049 | | FALSE | TRUE |
| 9 | 43684885 - 43924049 | | FALSE | TRUE |
| 6_qbl_hap6 | 1201814 - 1206454 | T - 86.67% | TRUE | TRUE |
| 6_qbl_hap6 | 1201814 - 1206454 | F - 13.33% | TRUE | FALSE |
| 6_qbl_hap6 | 1201814 - 1206454 | F - 6.67% | TRUE | TRUE |
| 6_qbl_hap6 | 1201814 - 1206454 | | TRUE | TRUE |
| 6_qbl_hap6 | 1201814 - 1206454 | T - 93.33% | TRUE | TRUE |
| 6_qbl_hap6 | 1201814 - 1206454 | | TRUE | TRUE |
| 6_qbl_hap6 | 1201814 - 1206454 | | FALSE | TRUE |
| 5 | 145492589 - 145562294 | | TRUE | TRUE |
| 5 | 145492589 - 145562294 | | FALSE | TRUE |
| 5 | 145492589 - 145562294 | F - 7.41% | TRUE | TRUE |
| 5 | 145492589 - 145562294 | | TRUE | TRUE |
| 5 | 145492589 - 145562294 | | FALSE | TRUE |
| 5 | 145492589 - 145562294 | F - 29.63% | FALSE | TRUE |
| 1 | 36771988 - 36787379 | F - 18.18% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | F - 18.18% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | F - 36.36% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | | TRUE | TRUE |
| 1 | 36771988 - 36787379 | F - 36.36% | FALSE | TRUE |
| 1 | 36771988 - 36787379 | | FALSE | TRUE |
| 1 | 36771988 - 36787379 | | TRUE | TRUE |
| 1 | 36771988 - 36787379 | T - 72.73% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | T - 81.82% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | T - 63.64% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | T - 63.64% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | | TRUE | TRUE |
| 1 | 36771988 - 36787379 | T - 81.82% | TRUE | TRUE |
| 1 | 36771988 - 36787379 | | TRUE | TRUE |
| 10 | 10826402 - 10836943 | F - 25.00% | TRUE | TRUE |
| 10 | 10826402 - 10836943 | T - 100.00% | TRUE | TRUE |
| 10 | 10826402 - 10836943 | T - 100.00% | TRUE | TRUE |
| 10 | 10826402 - 10836943 | | FALSE | TRUE |
| 10 | 10826402 - 10836943 | | FALSE | TRUE |
| 10 | 10826402 - 10836943 | T - 75.00% | FALSE | TRUE |
| 12 | 51785101 - 51909547 | | TRUE | FALSE |
| 12 | 51785101 - 51909547 | | TRUE | TRUE |
| 12 | 51785101 - 51909547 | | TRUE | FALSE |
| 12 | 51785101 - 51909547 | F - 18.18% | TRUE | FALSE |
| 12 | 51785101 - 51909547 | F - 22.73% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | F - 4.55% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | F - 31.82% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 51785101 - 51909547 | F - 9.09% | FALSE | TRUE |
| 12 | 51785101 - 51909547 | F - 27.27% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | | TRUE | TRUE |
| 12 | 51785101 - 51909547 | T - 86.36% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | F - 45.45% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | T - 86.36% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | F - 4.55% | FALSE | TRUE |
| 12 | 51785101 - 51909547 | F - 22.73% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | F - 9.09% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | F - 4.55% | TRUE | TRUE |
| 12 | 51785101 - 51909547 | | FALSE | TRUE |
| 12 | 51785101 - 51909547 | | FALSE | TRUE |
| 12 | 51785101 - 51909547 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | FALSE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 20.00% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 20.00% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 34.29% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 5.71% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 22.86% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 37.14% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 2.86% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 11.43% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | T - 54.29% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | T - 68.57% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 2.86% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 11.43% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 2.86% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 11.43% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 11.43% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 2.86% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | T - 60.00% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 48.57% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 5.71% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | T - 51.43% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | T - 51.43% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 5.71% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 2.86% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | T - 60.00% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | T - 57.14% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | T - 57.14% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 48.57% | FALSE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | F - 48.57% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | F - 34.29% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 1 | 205473684 - 205501921 | T - 54.29% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 1 | 205473684 - 205501921 | T - 60.00% | TRUE | TRUE |
| 1 | 205473684 - 205501921 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 100.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | T - 75.00% | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | TRUE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 6 | 138483053 - 138665800 | | FALSE | TRUE |
| 9 | 67926761 - 67970293 | | TRUE | FALSE |
| 9 | 67926761 - 67970293 | T - 100.00% | TRUE | TRUE |
| 9 | 67926761 - 67970293 | | TRUE | TRUE |
| 9 | 67926761 - 67970293 | | TRUE | TRUE |
| 9 | 67926761 - 67970293 | | FALSE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 6.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 13.33% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 20.00% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 20.00% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 6.67% | FALSE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 20.00% | FALSE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 46.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 6.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 6.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 26.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 40.00% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 6.67% | FALSE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 46.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 46.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 40.00% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | T - 53.33% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | F - 46.67% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | T - 53.33% | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | T - 53.33% | TRUE | TRUE |

| | | | | |
|------------|-------------------|------------|-------|------|
| 6_cox_hap2 | 3423477 - 3429617 | | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | | TRUE | TRUE |
| 6_cox_hap2 | 3423477 - 3429617 | | FALSE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 6.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 13.33% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 20.00% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 20.00% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 6.67% | FALSE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 20.00% | FALSE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 46.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 6.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 6.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 26.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 40.00% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 6.67% | FALSE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 46.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 46.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 40.00% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | T - 53.33% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | F - 46.67% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | T - 53.33% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | T - 53.33% | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | | TRUE | TRUE |
| 6_dbb_hap3 | 3199309 - 3205449 | | FALSE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 6.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 13.33% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 20.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 20.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 6.67% | FALSE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 20.00% | FALSE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 6.67% | FALSE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 46.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 6.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 6.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 26.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 40.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 6.67% | FALSE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 46.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 46.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 40.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | T - 53.33% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | F - 46.67% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | T - 53.33% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | T - 53.33% | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | | TRUE | TRUE |
| 6_mcf_hap5 | 3293565 - 3299705 | | FALSE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 6.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 13.33% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 20.00% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 20.00% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 6.67% | FALSE | TRUE |

| | | | | |
|-------------|---------------------|------------|-------|-------|
| 6_qbl_hap6 | 3207515 - 3213655 | F - 20.00% | FALSE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 46.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 6.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 6.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 26.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 40.00% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 6.67% | FALSE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 46.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 46.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 40.00% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | T - 53.33% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | F - 46.67% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | T - 53.33% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | T - 53.33% | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | | TRUE | TRUE |
| 6_qbl_hap6 | 3207515 - 3213655 | | FALSE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 6.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 13.33% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 20.00% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 20.00% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 6.67% | FALSE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 20.00% | FALSE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 6.67% | FALSE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 46.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 6.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 6.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 26.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 40.00% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 6.67% | FALSE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 46.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 46.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 40.00% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | T - 53.33% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | F - 46.67% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | T - 53.33% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | T - 53.33% | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | | TRUE | TRUE |
| 6_ssto_hap7 | 3246431 - 3252571 | | FALSE | TRUE |
| 15 | 94774767 - 95027181 | | TRUE | FALSE |
| 15 | 94774767 - 95027181 | F - 35.29% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | | TRUE | TRUE |
| 15 | 63613577 - 63674360 | F - 40.00% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | F - 10.00% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | F - 10.00% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | T - 90.00% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | | FALSE | TRUE |
| 15 | 63613577 - 63674360 | F - 10.00% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | F - 30.00% | TRUE | TRUE |
| 15 | 63613577 - 63674360 | | TRUE | TRUE |
| 15 | 63613577 - 63674360 | | FALSE | TRUE |
| 15 | 63613577 - 63674360 | | TRUE | TRUE |
| 15 | 63613577 - 63674360 | | FALSE | TRUE |
| 11 | 45669239 - 45687206 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 45669239 - 45687206 | T - 83.33% | TRUE | TRUE |
| 11 | 45669239 - 45687206 | T - 66.67% | TRUE | TRUE |
| 11 | 45669239 - 45687206 | F - 16.67% | TRUE | TRUE |
| 11 | 45669239 - 45687206 | | FALSE | TRUE |
| 11 | 45669239 - 45687206 | | TRUE | TRUE |
| 11 | 45669239 - 45687206 | T - 50.00% | TRUE | TRUE |
| 11 | 45669239 - 45687206 | | TRUE | TRUE |
| 11 | 45669239 - 45687206 | F - 16.67% | FALSE | TRUE |
| 11 | 45669239 - 45687206 | T - 66.67% | TRUE | TRUE |
| 3 | 132316081 - 132337811 | | TRUE | TRUE |
| 3 | 132316081 - 132337811 | T - 66.67% | TRUE | TRUE |
| 3 | 132316081 - 132337811 | T - 50.00% | FALSE | TRUE |
| 3 | 132316081 - 132337811 | | FALSE | TRUE |
| 3 | 132316081 - 132337811 | T - 83.33% | FALSE | TRUE |
| 3 | 132316081 - 132337811 | T - 83.33% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | FALSE |
| 2 | 101622395 - 101869328 | F - 20.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 13.33% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | FALSE | TRUE |
| 2 | 101622395 - 101869328 | F - 20.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 20.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | FALSE | TRUE |
| 2 | 101622395 - 101869328 | F - 20.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | FALSE | TRUE |
| 2 | 101622395 - 101869328 | | FALSE | TRUE |
| 2 | 101622395 - 101869328 | | FALSE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | FALSE | TRUE |
| 2 | 101622395 - 101869328 | F - 40.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 6.67% | FALSE | TRUE |
| 2 | 101622395 - 101869328 | F - 40.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 40.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 40.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 46.67% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | FALSE | TRUE |
| 2 | 101622395 - 101869328 | | FALSE | TRUE |
| 2 | 101622395 - 101869328 | F - 40.00% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 13.33% | FALSE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | F - 46.67% | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 2 | 101622395 - 101869328 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | F - 22.22% | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | F - 11.11% | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | FALSE | TRUE |
| 7 | 33944523 - 34195484 | F - 11.11% | FALSE | TRUE |
| 7 | 33944523 - 34195484 | F - 11.11% | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | F - 44.44% | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | T - 77.78% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 33944523 - 34195484 | F - 44.44% | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | F - 33.33% | FALSE | TRUE |
| 7 | 33944523 - 34195484 | | TRUE | TRUE |
| 7 | 33944523 - 34195484 | | FALSE | TRUE |
| 1 | 118148556 - 118171011 | | TRUE | TRUE |
| 1 | 118148556 - 118171011 | | TRUE | TRUE |
| 1 | 118148556 - 118171011 | T - 80.00% | TRUE | TRUE |
| 1 | 118148556 - 118171011 | F - 40.00% | TRUE | TRUE |
| 1 | 118148556 - 118171011 | T - 80.00% | TRUE | TRUE |
| 1 | 118148556 - 118171011 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | FALSE |
| 7 | 107788071 - 108097161 | | TRUE | FALSE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | FALSE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 71.88% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 59.38% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 62.50% | TRUE | FALSE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | FALSE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 46.88% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 53.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 53.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 46.88% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 53.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | T - 53.13% | TRUE | FALSE |
| 7 | 107788071 - 108097161 | T - 53.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 18.75% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 3.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 43.75% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 3.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 3.13% | FALSE | TRUE |
| 7 | 107788071 - 108097161 | F - 37.50% | FALSE | TRUE |
| 7 | 107788071 - 108097161 | F - 37.50% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | | FALSE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 9.38% | FALSE | TRUE |
| 7 | 107788071 - 108097161 | F - 3.13% | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 6.25% | FALSE | TRUE |
| 7 | 107788071 - 108097161 | | TRUE | TRUE |
| 7 | 107788071 - 108097161 | F - 9.38% | FALSE | TRUE |
| 7 | 107788071 - 108097161 | | FALSE | TRUE |
| 7 | 107788071 - 108097161 | | FALSE | TRUE |
| 7 | 107788071 - 108097161 | | FALSE | TRUE |
| 11 | 114128509 - 114184007 | F - 37.50% | TRUE | FALSE |
| 11 | 114128509 - 114184007 | F - 12.50% | TRUE | FALSE |
| 11 | 114128509 - 114184007 | | TRUE | FALSE |
| 11 | 114128509 - 114184007 | F - 12.50% | TRUE | FALSE |
| 11 | 114128509 - 114184007 | F - 25.00% | TRUE | TRUE |
| 11 | 114128509 - 114184007 | F - 25.00% | TRUE | TRUE |
| 1 | 110230418 - 110236367 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 110230418 - 110236367 | | TRUE | FALSE |
| 1 | 110230418 - 110236367 | T - 66.67% | TRUE | TRUE |
| 18 | 14179096 - 14227049 | | TRUE | FALSE |
| 18 | 14179096 - 14227049 | | TRUE | TRUE |
| 18 | 14179096 - 14227049 | | TRUE | TRUE |
| 18 | 14179096 - 14227049 | | TRUE | TRUE |
| 18 | 14179096 - 14227049 | F - 40.00% | FALSE | TRUE |
| 9 | 40498481 - 40633261 | | TRUE | FALSE |
| 9 | 40498481 - 40633261 | T - 100.00% | TRUE | TRUE |
| 9 | 40498481 - 40633261 | T - 100.00% | TRUE | TRUE |
| 9 | 40498481 - 40633261 | T - 100.00% | TRUE | TRUE |
| 9 | 40498481 - 40633261 | | TRUE | TRUE |
| 9 | 40498481 - 40633261 | | FALSE | TRUE |
| 9 | 40498481 - 40633261 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | FALSE |
| 9 | 18473892 - 18910948 | F - 7.69% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 42.31% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 7.69% | FALSE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 7.69% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 3.85% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 23.08% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 7.69% | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | FALSE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 26.92% | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 7.69% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 46.15% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 46.15% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 19.23% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 26.92% | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 38.46% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 46.15% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 34.62% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | F - 46.15% | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | TRUE | TRUE |
| 9 | 18473892 - 18910948 | | FALSE | TRUE |
| 9 | 18473892 - 18910948 | F - 30.77% | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 8 | 17501303 - 17658426 | | TRUE | FALSE |
| 8 | 17501303 - 17658426 | | FALSE | TRUE |
| 8 | 17501303 - 17658426 | | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 2.70% | TRUE | FALSE |
| 8 | 17501303 - 17658426 | F - 2.70% | TRUE | TRUE |
| 8 | 17501303 - 17658426 | | TRUE | TRUE |
| 8 | 17501303 - 17658426 | | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 2.70% | TRUE | FALSE |
| 8 | 17501303 - 17658426 | F - 2.70% | TRUE | TRUE |
| 8 | 17501303 - 17658426 | | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 5.41% | FALSE | TRUE |
| 8 | 17501303 - 17658426 | T - 54.05% | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 2.70% | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 8.11% | FALSE | TRUE |
| 8 | 17501303 - 17658426 | | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 2.70% | FALSE | TRUE |
| 8 | 17501303 - 17658426 | F - 27.03% | TRUE | TRUE |
| 8 | 17501303 - 17658426 | F - 48.65% | TRUE | TRUE |
| 8 | 17501303 - 17658426 | | TRUE | TRUE |
| 1 | 186798032 - 186958113 | F - 28.57% | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | TRUE | TRUE |
| 1 | 186798032 - 186958113 | F - 14.29% | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | FALSE | TRUE |
| 1 | 186798032 - 186958113 | | FALSE | TRUE |
| 1 | 186798032 - 186958113 | | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | FALSE | TRUE |
| 1 | 186798032 - 186958113 | T - 85.71% | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | TRUE | TRUE |
| 1 | 186798032 - 186958113 | | FALSE | TRUE |
| 1 | 186798032 - 186958113 | T - 57.14% | TRUE | TRUE |
| 1 | 186798032 - 186958113 | T - 57.14% | FALSE | TRUE |
| 1 | 186798032 - 186958113 | | FALSE | TRUE |
| 6 | 132617194 - 132722684 | | TRUE | FALSE |
| 6 | 132617194 - 132722684 | F - 14.29% | TRUE | TRUE |
| 6 | 132617194 - 132722684 | F - 14.29% | FALSE | TRUE |
| 6 | 132617194 - 132722684 | F - 28.57% | TRUE | TRUE |
| 6 | 132617194 - 132722684 | T - 57.14% | TRUE | TRUE |
| 6 | 132617194 - 132722684 | | FALSE | TRUE |
| 6 | 132617194 - 132722684 | F - 28.57% | FALSE | TRUE |
| 6 | 132617194 - 132722684 | | TRUE | TRUE |
| 6 | 132617194 - 132722684 | | TRUE | TRUE |
| 6 | 132617194 - 132722684 | T - 85.71% | TRUE | TRUE |
| 6 | 132617194 - 132722684 | | TRUE | TRUE |
| 1 | 44509600 - 44570647 | | TRUE | TRUE |
| 1 | 44509600 - 44570647 | F - 20.00% | TRUE | TRUE |
| 1 | 44509600 - 44570647 | F - 20.00% | TRUE | TRUE |
| 1 | 44509600 - 44570647 | | TRUE | TRUE |
| 1 | 44509600 - 44570647 | | FALSE | TRUE |
| 1 | 44509600 - 44570647 | | TRUE | TRUE |
| 1 | 44509600 - 44570647 | | TRUE | TRUE |
| 1 | 44509600 - 44570647 | T - 80.00% | TRUE | TRUE |
| 1 | 44509600 - 44570647 | | FALSE | TRUE |
| 1 | 44509600 - 44570647 | F - 40.00% | TRUE | TRUE |
| 1 | 44509600 - 44570647 | | TRUE | TRUE |
| 1 | 44509600 - 44570647 | T - 60.00% | FALSE | TRUE |
| 1 | 44509600 - 44570647 | F - 20.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 1 | 44509600 - 44570647 | F - 20.00% | FALSE | TRUE |
| 1 | 44509600 - 44570647 | | FALSE | TRUE |
| 11 | 9482069 - 9550071 | | TRUE | TRUE |
| 11 | 9482069 - 9550071 | | TRUE | TRUE |
| 11 | 9482069 - 9550071 | F - 6.67% | TRUE | TRUE |
| 11 | 9482069 - 9550071 | | TRUE | TRUE |
| 1 | 153600402 - 153604515 | | TRUE | TRUE |
| 1 | 153600402 - 153604515 | F - 14.29% | TRUE | TRUE |
| 1 | 153600402 - 153604515 | T - 100.00% | TRUE | TRUE |
| 1 | 153600402 - 153604515 | | TRUE | TRUE |
| 1 | 153600402 - 153604515 | | FALSE | TRUE |
| 1 | 153600402 - 153604515 | F - 14.29% | FALSE | TRUE |
| 1 | 153600402 - 153604515 | F - 14.29% | FALSE | TRUE |
| 5 | 90664541 - 90679176 | F - 23.08% | TRUE | TRUE |
| 5 | 90664541 - 90679176 | F - 7.69% | TRUE | TRUE |
| 5 | 90664541 - 90679176 | F - 7.69% | TRUE | TRUE |
| 5 | 90664541 - 90679176 | | TRUE | TRUE |
| 5 | 90664541 - 90679176 | | TRUE | TRUE |
| 5 | 90664541 - 90679176 | F - 15.38% | TRUE | TRUE |
| 5 | 90664541 - 90679176 | | FALSE | TRUE |
| 5 | 90664541 - 90679176 | F - 23.08% | TRUE | TRUE |
| 5 | 90664541 - 90679176 | F - 23.08% | TRUE | TRUE |
| 5 | 90664541 - 90679176 | F - 30.77% | TRUE | TRUE |
| 11 | 10326227 - 10328944 | F - 20.00% | TRUE | TRUE |
| 11 | 10326227 - 10328944 | F - 20.00% | TRUE | TRUE |
| 11 | 10326227 - 10328944 | | TRUE | TRUE |
| 11 | 10326227 - 10328944 | F - 20.00% | FALSE | TRUE |
| 11 | 10326227 - 10328944 | F - 10.00% | FALSE | TRUE |
| 11 | 10326227 - 10328944 | | TRUE | TRUE |
| 11 | 10326227 - 10328944 | | FALSE | TRUE |
| 11 | 10326227 - 10328944 | F - 10.00% | TRUE | TRUE |
| 11 | 10326227 - 10328944 | T - 60.00% | TRUE | TRUE |
| 11 | 10326227 - 10328944 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 17.39% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 21.74% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 13.04% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 8.70% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 13.04% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 8 | 19261672 - 19615540 | F - 4.35% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 26.09% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 17.39% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 13.04% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 4.35% | FALSE | TRUE |
| 8 | 19261672 - 19615540 | | FALSE | TRUE |
| 8 | 19261672 - 19615540 | F - 8.70% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | F - 26.09% | TRUE | TRUE |
| 8 | 19261672 - 19615540 | | TRUE | TRUE |
| 4 | 15704573 - 15739936 | | TRUE | TRUE |
| 4 | 15704573 - 15739936 | | FALSE | TRUE |
| 4 | 15704573 - 15739936 | F - 16.67% | FALSE | TRUE |
| 4 | 15704573 - 15739936 | F - 16.67% | TRUE | TRUE |
| 4 | 15704573 - 15739936 | | TRUE | TRUE |
| 4 | 15704573 - 15739936 | F - 16.67% | TRUE | TRUE |
| 4 | 15704573 - 15739936 | F - 33.33% | FALSE | TRUE |
| 4 | 15704573 - 15739936 | F - 16.67% | FALSE | TRUE |
| 4 | 15704573 - 15739936 | F - 16.67% | TRUE | TRUE |
| 4 | 15704573 - 15739936 | | FALSE | TRUE |
| 4 | 15704573 - 15739936 | T - 50.00% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | | TRUE | FALSE |
| 2 | 224616403 - 224702744 | | TRUE | FALSE |
| 2 | 224616403 - 224702744 | | TRUE | TRUE |
| 2 | 224616403 - 224702744 | | TRUE | TRUE |
| 2 | 224616403 - 224702744 | | TRUE | TRUE |
| 2 | 224616403 - 224702744 | F - 6.67% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | F - 6.67% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | F - 6.67% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | T - 93.33% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | | FALSE | TRUE |
| 2 | 224616403 - 224702744 | F - 6.67% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | F - 13.33% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | T - 86.67% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | F - 20.00% | TRUE | TRUE |
| 2 | 224616403 - 224702744 | | TRUE | TRUE |
| 2 | 224616403 - 224702744 | F - 46.67% | FALSE | TRUE |
| 2 | 224616403 - 224702744 | | FALSE | TRUE |
| 1 | 193028552 - 193060907 | F - 45.45% | TRUE | TRUE |
| 1 | 193028552 - 193060907 | F - 18.18% | TRUE | TRUE |
| 1 | 193028552 - 193060907 | | FALSE | TRUE |
| 8 | 77318889 - 77436591 | T - 100.00% | TRUE | TRUE |
| 8 | 77318889 - 77436591 | | FALSE | TRUE |
| 8 | 77318889 - 77436591 | | FALSE | TRUE |
| 8 | 77318889 - 77436591 | T - 100.00% | FALSE | TRUE |
| 8 | 77318889 - 77436591 | | FALSE | TRUE |
| 17 | 78440633 - 78450404 | | TRUE | FALSE |
| 17 | 78440633 - 78450404 | T - 66.67% | TRUE | TRUE |
| 17 | 78440633 - 78450404 | F - 33.33% | TRUE | TRUE |
| 17 | 78440633 - 78450404 | | TRUE | TRUE |
| 17 | 78440633 - 78450404 | T - 100.00% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | FALSE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 6 | 33043703 - 33057473 | F - 22.22% | FALSE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | TRUE |
| 6 | 33043703 - 33057473 | F - 11.11% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | TRUE |
| 6 | 33043703 - 33057473 | F - 22.22% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | F - 11.11% | FALSE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | TRUE |
| 6 | 33043703 - 33057473 | | FALSE | TRUE |
| 6 | 33043703 - 33057473 | T - 61.11% | FALSE | TRUE |
| 6 | 33043703 - 33057473 | F - 5.56% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | F - 5.56% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | F - 11.11% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | TRUE |
| 6 | 33043703 - 33057473 | T - 94.44% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | F - 38.89% | FALSE | TRUE |
| 6 | 33043703 - 33057473 | F - 22.22% | TRUE | TRUE |
| 6 | 33043703 - 33057473 | | TRUE | TRUE |
| 6 | 31913486 - 31919861 | | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 5.88% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 5.88% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 5.88% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 17.65% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 5.88% | FALSE | TRUE |
| 6 | 31913486 - 31919861 | F - 17.65% | FALSE | TRUE |
| 6 | 31913486 - 31919861 | F - 29.41% | FALSE | TRUE |
| 6 | 31913486 - 31919861 | F - 11.76% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 41.18% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 11.76% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 41.18% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 35.29% | FALSE | TRUE |
| 6 | 31913486 - 31919861 | F - 5.88% | FALSE | TRUE |
| 6 | 31913486 - 31919861 | F - 41.18% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 41.18% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 35.29% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | | TRUE | TRUE |
| 6 | 31913486 - 31919861 | T - 52.94% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 41.18% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 47.06% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | F - 47.06% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | | FALSE | TRUE |
| 6 | 31913486 - 31919861 | | FALSE | TRUE |
| 6 | 31913486 - 31919861 | F - 35.29% | TRUE | TRUE |
| 6 | 31913486 - 31919861 | | TRUE | TRUE |
| 6 | 31913486 - 31919861 | | FALSE | TRUE |
| 1 | 43824599 - 43828874 | | TRUE | FALSE |
| 1 | 43824599 - 43828874 | F - 8.33% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | F - 16.67% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | F - 8.33% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | F - 25.00% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | T - 83.33% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | F - 33.33% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | T - 75.00% | TRUE | TRUE |
| 1 | 43824599 - 43828874 | | FALSE | TRUE |
| 17 | 7942358 - 7952452 | T - 70.00% | TRUE | FALSE |
| 17 | 7942358 - 7952452 | | TRUE | FALSE |
| 17 | 7942358 - 7952452 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 17 | 7942358 - 7952452 | T - 80.00% | TRUE | FALSE |
| 17 | 7942358 - 7952452 | T - 100.00% | TRUE | TRUE |
| 17 | 7942358 - 7952452 | T - 100.00% | TRUE | TRUE |
| 17 | 7942358 - 7952452 | T - 100.00% | TRUE | TRUE |
| 17 | 7942358 - 7952452 | | TRUE | TRUE |
| 17 | 7942358 - 7952452 | | TRUE | TRUE |
| 17 | 7942358 - 7952452 | T - 60.00% | TRUE | TRUE |
| 17 | 7942358 - 7952452 | | FALSE | TRUE |
| 17 | 7942358 - 7952452 | T - 80.00% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | FALSE |
| 8 | 80947105 - 81143467 | | TRUE | FALSE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | FALSE |
| 8 | 80947105 - 81143467 | F - 15.00% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 35.00% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 27.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 7.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 5.00% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 22.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 20.00% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 32.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 5.00% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 7.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 25.00% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 7.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 27.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 5.00% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | | TRUE | TRUE |
| 8 | 80947105 - 81143467 | F - 2.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | T - 72.50% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 15.00% | FALSE | TRUE |
| 8 | 80947105 - 81143467 | F - 22.50% | TRUE | TRUE |
| 15 | 63889552 - 63894627 | | TRUE | FALSE |
| 15 | 63889552 - 63894627 | T - 100.00% | TRUE | FALSE |
| 1 | 203148059 - 203155922 | F - 18.18% | TRUE | TRUE |
| 1 | 203148059 - 203155922 | F - 9.09% | TRUE | TRUE |
| 1 | 203148059 - 203155922 | T - 63.64% | TRUE | TRUE |
| 1 | 203148059 - 203155922 | F - 36.36% | FALSE | TRUE |
| 1 | 203148059 - 203155922 | F - 9.09% | TRUE | TRUE |
| 1 | 203148059 - 203155922 | F - 18.18% | FALSE | TRUE |
| 1 | 203148059 - 203155922 | | TRUE | TRUE |
| 1 | 203148059 - 203155922 | | TRUE | TRUE |
| 1 | 203148059 - 203155922 | T - 72.73% | FALSE | TRUE |
| 1 | 203148059 - 203155922 | | FALSE | TRUE |
| 6 | 12290529 - 12297427 | T - 83.33% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 6 | 12290529 - 12297427 | T - 66.67% | FALSE | TRUE |
| 6 | 12290529 - 12297427 | F - 16.67% | TRUE | TRUE |
| 6 | 12290529 - 12297427 | F - 16.67% | TRUE | TRUE |
| 6 | 12290529 - 12297427 | T - 100.00% | TRUE | TRUE |
| 6 | 12290529 - 12297427 | T - 100.00% | TRUE | TRUE |
| 6 | 12290529 - 12297427 | T - 50.00% | FALSE | TRUE |
| 6 | 12290529 - 12297427 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | F - 21.21% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 3.03% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 15.15% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 12.12% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | T - 63.64% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 3.03% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | T - 57.58% | FALSE | TRUE |
| 11 | 85405265 - 85522184 | F - 9.09% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | F - 18.18% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 33.33% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 24.24% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 48.48% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 6.06% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 42.42% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 42.42% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 45.45% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 36.36% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | T - 69.70% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 3.03% | FALSE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | F - 45.45% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | T - 66.67% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | F - 45.45% | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | FALSE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 11 | 85405265 - 85522184 | | TRUE | TRUE |
| 10 | 98978996 - 99052430 | | TRUE | FALSE |
| 10 | 98978996 - 99052430 | | TRUE | TRUE |
| 10 | 98978996 - 99052430 | T - 68.42% | TRUE | TRUE |
| 7 | 93514709 - 93520303 | | TRUE | FALSE |
| 7 | 93514709 - 93520303 | | TRUE | FALSE |
| 7 | 93514709 - 93520303 | T - 100.00% | TRUE | TRUE |
| 7 | 93514709 - 93520303 | T - 71.43% | TRUE | FALSE |
| 7 | 93514709 - 93520303 | T - 85.71% | TRUE | FALSE |
| 7 | 93514709 - 93520303 | T - 71.43% | TRUE | TRUE |
| 7 | 93514709 - 93520303 | F - 28.57% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 15 | 39157523 - 39410914 | | TRUE | FALSE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | FALSE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | T - 100.00% | TRUE | TRUE |
| 15 | 39157523 - 39410914 | | FALSE | TRUE |
| 3 | 187871072 - 188608460 | | TRUE | TRUE |
| 3 | 187871072 - 188608460 | | TRUE | FALSE |
| 3 | 187871072 - 188608460 | | TRUE | TRUE |
| 3 | 187871072 - 188608460 | F - 7.69% | TRUE | TRUE |
| 3 | 187871072 - 188608460 | F - 7.69% | TRUE | TRUE |
| 3 | 187871072 - 188608460 | F - 3.85% | TRUE | TRUE |
| 3 | 187871072 - 188608460 | | FALSE | TRUE |
| 17 | 73713474 - 73753899 | | TRUE | FALSE |
| 17 | 73713474 - 73753899 | | TRUE | TRUE |
| 17 | 73713474 - 73753899 | | TRUE | TRUE |
| 17 | 73713474 - 73753899 | | TRUE | FALSE |
| 17 | 73713474 - 73753899 | T - 80.00% | TRUE | FALSE |
| 17 | 73713474 - 73753899 | | TRUE | FALSE |
| 17 | 73713474 - 73753899 | | TRUE | FALSE |
| 17 | 73713474 - 73753899 | | TRUE | TRUE |
| 17 | 73713474 - 73753899 | | TRUE | FALSE |
| 17 | 73713474 - 73753899 | | TRUE | TRUE |
| 1 | 803451 - 812283 | | TRUE | TRUE |
| 1 | 803451 - 812283 | T - 50.00% | TRUE | FALSE |
| 6_cox_hap2 | 4487883 - 4501576 | | TRUE | FALSE |
| 6_cox_hap2 | 4487883 - 4501576 | F - 18.75% | FALSE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | | TRUE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | F - 6.25% | TRUE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | | TRUE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | F - 18.75% | TRUE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | F - 6.25% | TRUE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | F - 6.25% | TRUE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | T - 56.25% | FALSE | TRUE |
| 6_cox_hap2 | 4487883 - 4501576 | | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | | TRUE | FALSE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 18.75% | FALSE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 6.25% | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 18.75% | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 12.50% | FALSE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | | FALSE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | T - 56.25% | FALSE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 6.25% | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 6.25% | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 12.50% | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | F - 37.50% | FALSE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | T - 93.75% | TRUE | TRUE |
| 6_qbl_hap6 | 4276154 - 4289926 | | TRUE | TRUE |
| 10 | 3109712 - 3179904 | | TRUE | FALSE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 10 | 3109712 - 3179904 | | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 26.32% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 15.79% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 10.53% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | FALSE | TRUE |
| 10 | 3109712 - 3179904 | F - 10.53% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 15.79% | FALSE | TRUE |
| 10 | 3109712 - 3179904 | | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 21.05% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 26.32% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 10.53% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | FALSE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | TRUE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | FALSE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | FALSE | TRUE |
| 10 | 3109712 - 3179904 | F - 5.26% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | FALSE |
| Y | 21865751 - 21906825 | T - 70.00% | TRUE | FALSE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 70.00% | TRUE | FALSE |
| Y | 21865751 - 21906825 | | TRUE | FALSE |
| Y | 21865751 - 21906825 | T - 65.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 65.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 60.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 50.00% | TRUE | FALSE |
| Y | 21865751 - 21906825 | T - 70.00% | TRUE | FALSE |
| Y | 21865751 - 21906825 | | TRUE | FALSE |
| Y | 21865751 - 21906825 | T - 60.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 75.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 65.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 70.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 80.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 80.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 65.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | F - 5.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 75.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | F - 10.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 75.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | F - 5.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | F - 5.00% | FALSE | TRUE |
| Y | 21865751 - 21906825 | F - 15.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | T - 70.00% | TRUE | TRUE |
| Y | 21865751 - 21906825 | | FALSE | TRUE |
| Y | 21865751 - 21906825 | T - 70.00% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | | TRUE | TRUE |
| Y | 21865751 - 21906825 | | FALSE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | TRUE | FALSE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 18.75% | FALSE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 6.25% | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 18.75% | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 12.50% | FALSE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | FALSE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | T - 56.25% | FALSE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 6.25% | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 6.25% | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 12.50% | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | T - 93.75% | TRUE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | F - 37.50% | FALSE | TRUE |
| 6_dbb_hap3 | 4325042 - 4338804 | | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | TRUE | FALSE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 18.75% | FALSE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 6.25% | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 18.75% | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 12.50% | FALSE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | FALSE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | T - 56.25% | FALSE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 6.25% | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 6.25% | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 12.50% | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | T - 93.75% | TRUE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | F - 37.50% | FALSE | TRUE |
| 6_ssto_hap7 | 4524207 - 4537977 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | FALSE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 42.11% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 42.11% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 2.63% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 44.74% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 4 | 113739239 - 114309884 | F - 39.47% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | FALSE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 13.16% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 44.74% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 34.21% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | F - 36.84% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 4 | 113739239 - 114309884 | T - 50.00% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | T - 52.63% | TRUE | TRUE |
| 4 | 113739239 - 114309884 | | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | TRUE | FALSE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 17.65% | FALSE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 5.88% | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 17.65% | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 11.76% | FALSE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | FALSE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | T - 58.82% | FALSE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 5.88% | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 5.88% | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 11.76% | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | T - 94.12% | TRUE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | F - 35.29% | FALSE | TRUE |
| 6_mann_hap4 | 4501243 - 4554476 | | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | TRUE | FALSE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 18.75% | FALSE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 6.25% | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 18.75% | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 12.50% | FALSE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | FALSE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | T - 56.25% | FALSE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 6.25% | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 6.25% | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 12.50% | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | T - 93.75% | TRUE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | F - 37.50% | FALSE | TRUE |
| 6_apd_hap1 | 4330504 - 4344264 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 8 | 121072019 - 121384275 | | TRUE | TRUE |
| 8 | 121072019 - 121384275 | F - 21.43% | TRUE | TRUE |
| 8 | 121072019 - 121384275 | | TRUE | TRUE |
| 8 | 121072019 - 121384275 | | TRUE | TRUE |
| 8 | 121072019 - 121384275 | F - 7.14% | TRUE | TRUE |
| 8 | 121072019 - 121384275 | | FALSE | TRUE |
| 10 | 120794356 - 120840396 | T - 54.55% | TRUE | TRUE |
| 10 | 120794356 - 120840396 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | FALSE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | F - 36.84% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | F - 26.32% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | F - 42.11% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | F - 42.11% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | F - 31.58% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | T - 68.42% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | FALSE | TRUE |
| 9 | 39072764 - 39288456 | T - 63.16% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | FALSE | TRUE |
| 9 | 39072764 - 39288456 | | FALSE | TRUE |
| 9 | 39072764 - 39288456 | T - 68.42% | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | TRUE | TRUE |
| 9 | 39072764 - 39288456 | | FALSE | TRUE |
| 9 | 39072764 - 39288456 | | FALSE | TRUE |
| 1 | 143391526 - 143404415 | | TRUE | TRUE |
| 1 | 143391526 - 143404415 | | TRUE | TRUE |
| 1 | 143391526 - 143404415 | | TRUE | TRUE |
| 1 | 143391526 - 143404415 | | TRUE | TRUE |
| 1 | 143391526 - 143404415 | | TRUE | TRUE |
| 1 | 143391526 - 143404415 | F - 11.11% | TRUE | TRUE |
| 1 | 143391526 - 143404415 | F - 44.44% | TRUE | TRUE |
| 1 | 143391526 - 143404415 | T - 55.56% | TRUE | TRUE |
| 1 | 143391526 - 143404415 | F - 11.11% | FALSE | TRUE |
| 1 | 143391526 - 143404415 | F - 22.22% | TRUE | TRUE |
| 1 | 143391526 - 143404415 | F - 22.22% | FALSE | TRUE |
| 1 | 143391526 - 143404415 | F - 22.22% | TRUE | TRUE |
| 1 | 143391526 - 143404415 | | TRUE | TRUE |
| 1 | 143391526 - 143404415 | F - 11.11% | FALSE | TRUE |
| 1 | 143391526 - 143404415 | F - 44.44% | FALSE | TRUE |
| 1 | 143391526 - 143404415 | F - 11.11% | TRUE | TRUE |
| 1 | 143391526 - 143404415 | T - 55.56% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 7.14% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | T - 57.14% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 42.86% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 46.43% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | TRUE | TRUE |

| | | | | |
|---|-------------------|------------|-------|-------|
| 3 | 4535032 - 4889524 | F - 7.14% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 10.71% | FALSE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 35.71% | FALSE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 17.86% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | FALSE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 3 | 4535032 - 4889524 | F - 7.14% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 35.71% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 35.71% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 46.43% | FALSE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 3 | 4535032 - 4889524 | F - 21.43% | FALSE | TRUE |
| 3 | 4535032 - 4889524 | F - 42.86% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | F - 3.57% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | TRUE | TRUE |
| 3 | 4535032 - 4889524 | T - 64.29% | TRUE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 3 | 4535032 - 4889524 | | FALSE | TRUE |
| 1 | 1981909 - 2116834 | | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 8.82% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | | TRUE | FALSE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 5.88% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | | TRUE | FALSE |
| 1 | 1981909 - 2116834 | F - 5.88% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 14.71% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | | TRUE | FALSE |
| 1 | 1981909 - 2116834 | F - 5.88% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 5.88% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 14.71% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 11.76% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 41.18% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 17.65% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 5.88% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 35.29% | TRUE | TRUE |

| | | | | |
|-------------|---------------------|------------|-------|-------|
| 1 | 1981909 - 2116834 | F - 5.88% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 41.18% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 44.12% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 41.18% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 38.24% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 41.18% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 20.59% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 5.88% | FALSE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | TRUE | TRUE |
| 1 | 1981909 - 2116834 | F - 2.94% | FALSE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 7.69% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 15.38% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 23.08% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 23.08% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 23.08% | FALSE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | T - 53.85% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 7.69% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 7.69% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 30.77% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 46.15% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | T - 53.85% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 7.69% | FALSE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | T - 53.85% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | F - 46.15% | TRUE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | | FALSE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | | FALSE | TRUE |
| 6_mann_hap4 | 3256541 - 3261361 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | FALSE |
| 8 | 31496902 - 32622558 | F - 12.50% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 45.83% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 43.75% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 20.83% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 68.75% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 2.08% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 54.17% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 2.08% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 6.25% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 33.33% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 2.08% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 37.50% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 4.17% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 54.17% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 72.92% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 8.33% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 4.17% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 52.08% | TRUE | FALSE |
| 8 | 31496902 - 32622558 | F - 6.25% | FALSE | TRUE |
| 8 | 31496902 - 32622558 | F - 6.25% | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 68.75% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 35.42% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 43.75% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | T - 70.83% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 41.67% | TRUE | TRUE |
| 8 | 31496902 - 32622558 | F - 39.58% | FALSE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 8 | 31496902 - 32622558 | | TRUE | TRUE |
| 2 | 75059782 - 75120486 | | TRUE | FALSE |
| 2 | 75059782 - 75120486 | F - 14.29% | TRUE | FALSE |
| 2 | 75059782 - 75120486 | F - 14.29% | TRUE | TRUE |
| 2 | 75059782 - 75120486 | F - 14.29% | TRUE | TRUE |
| 2 | 75059782 - 75120486 | T - 85.71% | TRUE | TRUE |
| 2 | 75059782 - 75120486 | | FALSE | TRUE |
| 2 | 75059782 - 75120486 | T - 85.71% | TRUE | TRUE |
| 2 | 75059782 - 75120486 | | FALSE | TRUE |
| 2 | 75059782 - 75120486 | | TRUE | TRUE |
| 2 | 75059782 - 75120486 | T - 57.14% | FALSE | TRUE |
| 2 | 75059782 - 75120486 | T - 71.43% | FALSE | TRUE |
| 2 | 75059782 - 75120486 | | TRUE | TRUE |
| 2 | 75059782 - 75120486 | | TRUE | TRUE |
| 2 | 75059782 - 75120486 | T - 85.71% | FALSE | TRUE |
| 2 | 75059782 - 75120486 | | TRUE | TRUE |
| 2 | 75059782 - 75120486 | T - 85.71% | TRUE | TRUE |
| 2 | 75059782 - 75120486 | T - 85.71% | FALSE | TRUE |
| 2 | 75059782 - 75120486 | | TRUE | TRUE |
| 2 | 75059782 - 75120486 | | FALSE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 13.33% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | FALSE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | FALSE | TRUE |
| 19 | 6677846 - 6730573 | F - 6.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 20.00% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | FALSE | TRUE |
| 19 | 6677846 - 6730573 | | FALSE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | FALSE | TRUE |
| 19 | 6677846 - 6730573 | F - 20.00% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 20.00% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 20.00% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 26.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 26.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 26.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | FALSE | TRUE |
| 19 | 6677846 - 6730573 | F - 26.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 19 | 6677846 - 6730573 | F - 26.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 20.00% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 33.33% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | F - 26.67% | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | FALSE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | TRUE | TRUE |
| 19 | 6677846 - 6730573 | | FALSE | TRUE |
| 22 | 24376133 - 24384680 | | TRUE | TRUE |
| 22 | 24376133 - 24384680 | | TRUE | TRUE |
| 22 | 24376133 - 24384680 | | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 4.76% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 4.76% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 9.52% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 14.29% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 9.52% | FALSE | TRUE |
| 22 | 24376133 - 24384680 | | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 9.52% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | F - 4.76% | FALSE | TRUE |
| 22 | 24376133 - 24384680 | F - 4.76% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | T - 61.90% | TRUE | TRUE |
| 22 | 24376133 - 24384680 | | TRUE | TRUE |
| 22 | 24376133 - 24384680 | | FALSE | TRUE |
| 12 | 57145945 - 57181574 | | TRUE | FALSE |
| 12 | 57145945 - 57181574 | T - 75.00% | TRUE | FALSE |
| 12 | 57145945 - 57181574 | T - 75.00% | TRUE | TRUE |
| 12 | 57145945 - 57181574 | | TRUE | TRUE |
| 12 | 57145945 - 57181574 | F - 25.00% | FALSE | TRUE |
| 12 | 57145945 - 57181574 | T - 50.00% | FALSE | TRUE |
| 1 | 215178885 - 215410436 | F - 5.26% | FALSE | TRUE |
| 1 | 215178885 - 215410436 | | TRUE | TRUE |
| 1 | 215178885 - 215410436 | F - 5.26% | TRUE | TRUE |
| 1 | 215178885 - 215410436 | | TRUE | TRUE |
| 1 | 215178885 - 215410436 | F - 47.37% | FALSE | TRUE |
| 1 | 215178885 - 215410436 | | TRUE | TRUE |
| 1 | 215178885 - 215410436 | F - 36.84% | TRUE | TRUE |
| 1 | 215178885 - 215410436 | | FALSE | TRUE |
| 1 | 215178885 - 215410436 | F - 5.26% | TRUE | TRUE |
| 1 | 215178885 - 215410436 | | FALSE | TRUE |
| 1 | 215178885 - 215410436 | F - 36.84% | FALSE | TRUE |
| 1 | 215178885 - 215410436 | | TRUE | TRUE |
| 1 | 215178885 - 215410436 | F - 21.05% | FALSE | TRUE |
| 1 | 215178885 - 215410436 | T - 100.00% | TRUE | TRUE |
| 1 | 215178885 - 215410436 | F - 36.84% | TRUE | TRUE |
| 1 | 215178885 - 215410436 | F - 36.84% | TRUE | TRUE |
| 1 | 215178885 - 215410436 | | FALSE | TRUE |
| 6 | 111876581 - 111927481 | F - 20.83% | TRUE | TRUE |
| 6 | 111876581 - 111927481 | F - 16.67% | TRUE | TRUE |
| 6 | 111876581 - 111927481 | F - 8.33% | FALSE | TRUE |
| 6 | 111876581 - 111927481 | F - 12.50% | TRUE | TRUE |
| 6 | 111876581 - 111927481 | F - 4.17% | TRUE | TRUE |
| 6 | 111876581 - 111927481 | F - 8.33% | TRUE | TRUE |
| 6 | 111876581 - 111927481 | F - 4.17% | FALSE | TRUE |
| 6 | 111876581 - 111927481 | | TRUE | TRUE |
| 6 | 111876581 - 111927481 | F - 12.50% | TRUE | TRUE |
| 5 | 148303202 - 148442737 | | TRUE | FALSE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 5 | 148303202 - 148442737 | F - 8.33% | TRUE | TRUE |
| 5 | 148303202 - 148442737 | | TRUE | FALSE |
| 5 | 148303202 - 148442737 | | TRUE | TRUE |
| 5 | 148303202 - 148442737 | | TRUE | TRUE |
| 5 | 148303202 - 148442737 | T - 62.50% | TRUE | TRUE |
| 5 | 148303202 - 148442737 | T - 62.50% | FALSE | TRUE |
| 5 | 148303202 - 148442737 | | FALSE | TRUE |
| 5 | 148303202 - 148442737 | | FALSE | TRUE |
| 4 | 9772777 - 10056560 | | TRUE | TRUE |
| 4 | 9772777 - 10056560 | | TRUE | FALSE |
| 4 | 9772777 - 10056560 | | TRUE | TRUE |
| 4 | 9772777 - 10056560 | | FALSE | TRUE |
| 4 | 9772777 - 10056560 | F - 5.88% | TRUE | TRUE |
| 4 | 9772777 - 10056560 | F - 5.88% | TRUE | TRUE |
| 4 | 9772777 - 10056560 | | TRUE | TRUE |
| 4 | 9772777 - 10056560 | F - 11.76% | TRUE | TRUE |
| 4 | 9772777 - 10056560 | F - 5.88% | TRUE | TRUE |
| 4 | 9772777 - 10056560 | | FALSE | TRUE |
| 4 | 9772777 - 10056560 | | TRUE | TRUE |
| 4 | 9772777 - 10056560 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | FALSE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 8.70% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | F - 30.43% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 13.04% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 13.04% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | FALSE | TRUE |
| 3 | 186933873 - 187009810 | T - 65.22% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 8.70% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 17.39% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 4.35% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 8.70% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | T - 65.22% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | | FALSE | TRUE |
| 3 | 186933873 - 187009810 | F - 13.04% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 47.83% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |
| 3 | 186933873 - 187009810 | F - 8.70% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | F - 13.04% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | T - 56.52% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | T - 78.26% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | T - 60.87% | FALSE | TRUE |
| 3 | 186933873 - 187009810 | F - 47.83% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | T - 69.57% | TRUE | TRUE |
| 3 | 186933873 - 187009810 | | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | FALSE | TRUE |
| 3 | 186933873 - 187009810 | | TRUE | TRUE |

| | | | | |
|---|---------------------|-------------|-------|-------|
| X | 47077259 - 47089396 | | TRUE | TRUE |
| X | 47077259 - 47089396 | | TRUE | FALSE |
| X | 47077259 - 47089396 | F - 12.50% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 6.25% | TRUE | TRUE |
| X | 47077259 - 47089396 | | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 12.50% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 3.13% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 12.50% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 3.13% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 6.25% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 9.38% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 31.25% | TRUE | TRUE |
| X | 47077259 - 47089396 | F - 3.13% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | F - 44.44% | TRUE | FALSE |
| 1 | 62701837 - 62785085 | T - 66.67% | TRUE | FALSE |
| 1 | 62701837 - 62785085 | T - 100.00% | TRUE | FALSE |
| 1 | 62701837 - 62785085 | | TRUE | FALSE |
| 1 | 62701837 - 62785085 | T - 77.78% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | T - 77.78% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | | TRUE | TRUE |
| 1 | 62701837 - 62785085 | | TRUE | TRUE |
| 1 | 62701837 - 62785085 | T - 77.78% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | F - 33.33% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | | TRUE | TRUE |
| 1 | 62701837 - 62785085 | T - 55.56% | TRUE | FALSE |
| 1 | 62701837 - 62785085 | T - 100.00% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | T - 77.78% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | F - 44.44% | TRUE | TRUE |
| 1 | 62701837 - 62785085 | | FALSE | TRUE |
| 7 | 70597155 - 71178585 | | TRUE | FALSE |
| 7 | 70597155 - 71178585 | | TRUE | FALSE |
| 7 | 70597155 - 71178585 | T - 66.67% | TRUE | TRUE |
| 7 | 70597155 - 71178585 | T - 100.00% | TRUE | TRUE |
| 7 | 70597155 - 71178585 | | TRUE | FALSE |
| 7 | 70597155 - 71178585 | T - 100.00% | TRUE | TRUE |
| 7 | 70597155 - 71178585 | | TRUE | TRUE |
| 7 | 70597155 - 71178585 | | TRUE | FALSE |
| 7 | 70597155 - 71178585 | F - 22.22% | TRUE | TRUE |
| 7 | 70597155 - 71178585 | F - 11.11% | TRUE | TRUE |
| 7 | 70597155 - 71178585 | | FALSE | TRUE |
| 7 | 70597155 - 71178585 | F - 22.22% | FALSE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | FALSE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | FALSE |
| 3 | 48601506 - 48632700 | F - 33.33% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | FALSE |
| 3 | 48601506 - 48632700 | | TRUE | FALSE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | FALSE |
| 3 | 48601506 - 48632700 | F - 41.67% | TRUE | FALSE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 33.33% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 33.33% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | FALSE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 33.33% | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 33.33% | FALSE | TRUE |
| 3 | 48601506 - 48632700 | F - 33.33% | FALSE | TRUE |
| 3 | 48601506 - 48632700 | | TRUE | TRUE |
| 3 | 48601506 - 48632700 | F - 25.00% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | F - 4.17% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 25.00% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 8.33% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 8.33% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 8.33% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | F - 12.50% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 12.50% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 4.17% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | T - 66.67% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 16.67% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 12.50% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | F - 12.50% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | F - 4.17% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | F - 37.50% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 17 | 19641297 - 19651746 | T - 75.00% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | T - 83.33% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | TRUE | TRUE |
| 17 | 19641297 - 19651746 | | TRUE | TRUE |
| 17 | 19641297 - 19651746 | | TRUE | TRUE |
| 17 | 19641297 - 19651746 | T - 75.00% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | T - 66.67% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | T - 75.00% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | F - 45.83% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | T - 83.33% | TRUE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 17 | 19641297 - 19651746 | T - 95.83% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 17 | 19641297 - 19651746 | T - 87.50% | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 17 | 19641297 - 19651746 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | FALSE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|------|
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 39.13% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 6.52% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | F - 6.52% | FALSE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | FALSE | TRUE |
| 1 | 204797779 - 204991950 | F - 28.26% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 43.48% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | T - 56.52% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 2.17% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | T - 63.04% | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | FALSE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | | TRUE | TRUE |
| 1 | 204797779 - 204991950 | F - 17.39% | TRUE | TRUE |
| 8 | 119935796 - 119964439 | T - 50.00% | FALSE | TRUE |
| 8 | 119935796 - 119964439 | F - 16.67% | TRUE | TRUE |
| 8 | 119935796 - 119964439 | | FALSE | TRUE |
| 8 | 119935796 - 119964439 | F - 33.33% | TRUE | TRUE |
| 8 | 119935796 - 119964439 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | T - 84.62% | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | F - 7.69% | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | T - 50.00% | FALSE | TRUE |
| 14 | 94843084 - 94857030 | F - 11.54% | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | FALSE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | T - 65.38% | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | TRUE | TRUE |
| 14 | 94843084 - 94857030 | | FALSE | TRUE |
| 17 | 48133332 - 48167849 | | TRUE | TRUE |
| 17 | 48133332 - 48167849 | | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 4.76% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 4.76% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 4.76% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 14.29% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 14.29% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 4.76% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 4.76% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 33.33% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 42.86% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | F - 42.86% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | | TRUE | TRUE |
| 17 | 48133332 - 48167849 | | FALSE | TRUE |
| 17 | 48133332 - 48167849 | F - 4.76% | TRUE | TRUE |
| 17 | 48133332 - 48167849 | | FALSE | TRUE |
| 17 | 48133332 - 48167849 | | FALSE | TRUE |
| 17 | 48133332 - 48167849 | | FALSE | TRUE |
| 3 | 147111209 - 147228080 | F - 25.00% | TRUE | TRUE |
| 3 | 147111209 - 147228080 | | TRUE | FALSE |
| 3 | 147111209 - 147228080 | F - 37.50% | TRUE | FALSE |
| 3 | 147111209 - 147228080 | F - 25.00% | TRUE | FALSE |
| 3 | 147111209 - 147228080 | | TRUE | FALSE |
| 14 | 23765112 - 23772057 | | TRUE | FALSE |
| 14 | 23765112 - 23772057 | | TRUE | TRUE |
| 14 | 23765112 - 23772057 | F - 33.33% | TRUE | TRUE |
| 14 | 23765112 - 23772057 | F - 33.33% | TRUE | TRUE |
| 14 | 23765112 - 23772057 | | TRUE | TRUE |
| 14 | 23765112 - 23772057 | F - 33.33% | TRUE | TRUE |
| 14 | 23765112 - 23772057 | | TRUE | TRUE |
| 14 | 23765112 - 23772057 | F - 14.29% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | | TRUE | FALSE |
| 3 | 27414214 - 27525911 | | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 2.78% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 11.11% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 8.33% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 2.78% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 41.67% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 2.78% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | F - 2.78% | FALSE | TRUE |
| 3 | 27414214 - 27525911 | T - 86.11% | TRUE | TRUE |
| 3 | 27414214 - 27525911 | | TRUE | TRUE |
| 3 | 27414214 - 27525911 | | TRUE | TRUE |
| 3 | 27414214 - 27525911 | | FALSE | TRUE |
| 7 | 43648055 - 43769316 | | TRUE | FALSE |
| 7 | 43648055 - 43769316 | F - 4.00% | TRUE | TRUE |
| 7 | 43648055 - 43769316 | | TRUE | FALSE |
| 7 | 43648055 - 43769316 | | TRUE | FALSE |
| 7 | 43648055 - 43769316 | F - 8.00% | FALSE | TRUE |
| 2 | 46520806 - 46613842 | F - 7.69% | TRUE | TRUE |
| 2 | 46520806 - 46613842 | F - 7.69% | TRUE | TRUE |
| 2 | 46520806 - 46613842 | F - 7.69% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 46520806 - 46613842 | | TRUE | TRUE |
| 2 | 46520806 - 46613842 | F - 7.69% | FALSE | TRUE |
| 2 | 46520806 - 46613842 | F - 7.69% | TRUE | TRUE |
| 2 | 46520806 - 46613842 | | TRUE | TRUE |
| 2 | 46520806 - 46613842 | | TRUE | TRUE |
| 2 | 46520806 - 46613842 | T - 53.85% | TRUE | TRUE |
| 2 | 46520806 - 46613842 | | TRUE | TRUE |
| 2 | 46520806 - 46613842 | F - 30.77% | TRUE | TRUE |
| 2 | 46520806 - 46613842 | | TRUE | TRUE |
| 2 | 46520806 - 46613842 | | TRUE | TRUE |
| 12 | 7023491 - 7032861 | F - 9.09% | TRUE | TRUE |
| 12 | 7023491 - 7032861 | F - 36.36% | TRUE | TRUE |
| 12 | 7023491 - 7032861 | F - 9.09% | TRUE | TRUE |
| 12 | 7023491 - 7032861 | F - 9.09% | FALSE | TRUE |
| 12 | 7023491 - 7032861 | T - 72.73% | TRUE | TRUE |
| 12 | 7023491 - 7032861 | | TRUE | TRUE |
| 12 | 7023491 - 7032861 | | FALSE | TRUE |
| 12 | 7023491 - 7032861 | | TRUE | TRUE |
| 12 | 7023491 - 7032861 | | FALSE | TRUE |
| 12 | 7023491 - 7032861 | T - 63.64% | TRUE | TRUE |
| 12 | 7023491 - 7032861 | | FALSE | TRUE |
| 12 | 7023491 - 7032861 | F - 9.09% | TRUE | TRUE |
| 12 | 7023491 - 7032861 | | TRUE | TRUE |
| 12 | 7023491 - 7032861 | | FALSE | TRUE |
| 12 | 7023491 - 7032861 | T - 72.73% | TRUE | TRUE |
| 10 | 88426549 - 88495825 | | TRUE | FALSE |
| 10 | 88426549 - 88495825 | | TRUE | TRUE |
| 10 | 88426549 - 88495825 | | TRUE | TRUE |
| 10 | 88426549 - 88495825 | F - 26.09% | TRUE | TRUE |
| 10 | 88426549 - 88495825 | F - 34.78% | FALSE | TRUE |
| 1 | 156052364 - 156109880 | | TRUE | FALSE |
| 1 | 156052364 - 156109880 | | TRUE | FALSE |
| 1 | 156052364 - 156109880 | | TRUE | TRUE |
| 1 | 156052364 - 156109880 | F - 2.44% | TRUE | TRUE |
| 1 | 156052364 - 156109880 | | TRUE | TRUE |
| 1 | 156052364 - 156109880 | F - 2.44% | TRUE | TRUE |
| 6 | 36644237 - 36655116 | | TRUE | FALSE |
| 6 | 36644237 - 36655116 | F - 11.76% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | | TRUE | FALSE |
| 5 | 58264865 - 59817947 | F - 2.22% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 6.67% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 2.22% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 4.44% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 2.22% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | T - 51.11% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 4.44% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | T - 51.11% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 2.22% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 4.44% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 4.44% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | T - 57.78% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 37.78% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 11.11% | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 2.22% | FALSE | TRUE |
| 5 | 58264865 - 59817947 | | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 2.22% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 58264865 - 59817947 | F - 4.44% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 13.33% | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 17.78% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 8.89% | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 28.89% | FALSE | TRUE |
| 5 | 58264865 - 59817947 | | FALSE | TRUE |
| 5 | 58264865 - 59817947 | | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 2.22% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | | FALSE | TRUE |
| 5 | 58264865 - 59817947 | | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 31.11% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 35.56% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | F - 26.67% | TRUE | TRUE |
| 5 | 58264865 - 59817947 | | FALSE | TRUE |
| 5 | 58264865 - 59817947 | F - 35.56% | TRUE | TRUE |
| 17 | 4891425 - 4900905 | | TRUE | FALSE |
| 17 | 4891425 - 4900905 | T - 100.00% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 66.67% | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 66.67% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 66.67% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 66.67% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | F - 11.11% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 66.67% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 66.67% | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | TRUE |
| 5 | 80256491 - 80525985 | F - 11.11% | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | FALSE |
| 5 | 80256491 - 80525985 | F - 11.11% | TRUE | FALSE |
| 5 | 80256491 - 80525985 | T - 55.56% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | | TRUE | FALSE |
| 5 | 80256491 - 80525985 | F - 11.11% | TRUE | TRUE |
| 5 | 80256491 - 80525985 | | TRUE | TRUE |
| 1 | 186640923 - 186649559 | F - 12.50% | FALSE | TRUE |
| 1 | 186640923 - 186649559 | | FALSE | TRUE |
| 1 | 186640923 - 186649559 | T - 87.50% | TRUE | TRUE |
| 1 | 186640923 - 186649559 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 186640923 - 186649559 | T - 62.50% | FALSE | TRUE |
| 1 | 186640923 - 186649559 | T - 87.50% | TRUE | TRUE |
| 1 | 186640923 - 186649559 | | FALSE | TRUE |
| 1 | 236681300 - 236716281 | T - 87.50% | TRUE | TRUE |
| 1 | 236681300 - 236716281 | | TRUE | TRUE |
| 1 | 236681300 - 236716281 | | TRUE | TRUE |
| 1 | 236681300 - 236716281 | T - 93.75% | TRUE | TRUE |
| 1 | 236681300 - 236716281 | | TRUE | TRUE |
| 1 | 236681300 - 236716281 | F - 9.38% | TRUE | TRUE |
| 1 | 236681300 - 236716281 | | TRUE | FALSE |
| 1 | 236681300 - 236716281 | | TRUE | TRUE |
| 1 | 236681300 - 236716281 | | TRUE | TRUE |
| 1 | 236681300 - 236716281 | F - 40.63% | TRUE | TRUE |
| 2 | 191829084 - 191885686 | | TRUE | FALSE |
| 2 | 191829084 - 191885686 | | TRUE | FALSE |
| 2 | 191829084 - 191885686 | | TRUE | TRUE |
| 2 | 191829084 - 191885686 | F - 5.00% | FALSE | TRUE |
| 2 | 191829084 - 191885686 | F - 5.00% | TRUE | TRUE |
| 2 | 191829084 - 191885686 | T - 50.00% | TRUE | TRUE |
| 2 | 191829084 - 191885686 | F - 5.00% | TRUE | TRUE |
| 2 | 191829084 - 191885686 | T - 70.00% | TRUE | TRUE |
| 2 | 191829084 - 191885686 | | TRUE | TRUE |
| 6 | 41242999 - 41254457 | | TRUE | TRUE |
| 6 | 41242999 - 41254457 | F - 16.67% | FALSE | TRUE |
| 6 | 41242999 - 41254457 | T - 66.67% | TRUE | TRUE |
| 6 | 41242999 - 41254457 | F - 33.33% | FALSE | TRUE |
| 6 | 41242999 - 41254457 | T - 100.00% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | FALSE |
| 15 | 84322838 - 84708594 | | TRUE | FALSE |
| 15 | 84322838 - 84708594 | | TRUE | FALSE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 100.00% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | FALSE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | FALSE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 100.00% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 83.33% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 100.00% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 66.67% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 66.67% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 50.00% | TRUE | FALSE |
| 15 | 84322838 - 84708594 | | TRUE | TRUE |
| 15 | 84322838 - 84708594 | T - 66.67% | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 15 | 84322838 - 84708594 | F - 33.33% | TRUE | FALSE |
| 15 | 84322838 - 84708594 | F - 16.67% | TRUE | TRUE |
| 15 | 84322838 - 84708594 | | FALSE | TRUE |
| 21 | 48018531 - 48025121 | F - 16.67% | TRUE | TRUE |
| 21 | 48018531 - 48025121 | T - 66.67% | TRUE | TRUE |
| 21 | 48018531 - 48025121 | F - 33.33% | TRUE | TRUE |
| 21 | 48018531 - 48025121 | T - 83.33% | TRUE | TRUE |
| 21 | 48018531 - 48025121 | F - 33.33% | FALSE | TRUE |
| 21 | 48018531 - 48025121 | F - 33.33% | TRUE | TRUE |
| 21 | 48018531 - 48025121 | | FALSE | TRUE |
| 3 | 177159709 - 177470093 | | TRUE | FALSE |
| 3 | 177159709 - 177470093 | F - 25.00% | TRUE | TRUE |
| 3 | 177159709 - 177470093 | F - 25.00% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | F - 5.56% | FALSE | TRUE |
| 21 | 35885440 - 35987441 | F - 16.67% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | | TRUE | TRUE |
| 21 | 35885440 - 35987441 | | TRUE | TRUE |
| 21 | 35885440 - 35987441 | F - 5.56% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | F - 22.22% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | F - 11.11% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | F - 5.56% | FALSE | TRUE |
| 21 | 35885440 - 35987441 | F - 5.56% | FALSE | TRUE |
| 21 | 35885440 - 35987441 | F - 11.11% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | | TRUE | TRUE |
| 21 | 35885440 - 35987441 | F - 22.22% | TRUE | TRUE |
| 21 | 35885440 - 35987441 | | FALSE | TRUE |
| 7 | 55086714 - 55324313 | | TRUE | TRUE |
| 7 | 55086714 - 55324313 | | TRUE | FALSE |
| 7 | 55086714 - 55324313 | T - 57.69% | TRUE | TRUE |
| 7 | 55086714 - 55324313 | F - 11.54% | FALSE | TRUE |
| 7 | 55086714 - 55324313 | F - 3.85% | FALSE | TRUE |
| 7 | 55086714 - 55324313 | F - 42.31% | TRUE | TRUE |
| 7 | 55086714 - 55324313 | | TRUE | TRUE |
| 7 | 55086714 - 55324313 | F - 7.69% | FALSE | TRUE |
| 9 | 36336393 - 36487545 | | TRUE | TRUE |
| 9 | 36336393 - 36487545 | | TRUE | FALSE |
| 9 | 36336393 - 36487545 | F - 27.78% | TRUE | TRUE |
| 10 | 105156405 - 105206049 | | TRUE | TRUE |
| 10 | 105156405 - 105206049 | | TRUE | TRUE |
| 10 | 105156405 - 105206049 | F - 11.11% | TRUE | TRUE |
| 10 | 105156405 - 105206049 | | TRUE | FALSE |
| 10 | 105156405 - 105206049 | | TRUE | FALSE |
| 10 | 105156405 - 105206049 | | TRUE | TRUE |
| 10 | 105156405 - 105206049 | F - 33.33% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | | TRUE | FALSE |
| 17 | 19240867 - 19281495 | | TRUE | TRUE |
| 17 | 19240867 - 19281495 | | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 43.75% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 6.25% | FALSE | TRUE |
| 17 | 19240867 - 19281495 | F - 6.25% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 18.75% | FALSE | TRUE |
| 17 | 19240867 - 19281495 | F - 31.25% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 31.25% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 12.50% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 18.75% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 18.75% | TRUE | TRUE |
| 17 | 19240867 - 19281495 | F - 6.25% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 17 | 19240867 - 19281495 | | FALSE | TRUE |
| 17 | 19240867 - 19281495 | | TRUE | TRUE |
| 19 | 12907634 - 12912694 | | TRUE | TRUE |
| 19 | 12907634 - 12912694 | F - 27.27% | TRUE | TRUE |
| 19 | 12907634 - 12912694 | F - 9.09% | TRUE | TRUE |
| 19 | 12907634 - 12912694 | F - 27.27% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | | TRUE | TRUE |
| 2 | 107418056 - 107503564 | | TRUE | FALSE |
| 2 | 107418056 - 107503564 | | TRUE | FALSE |
| 2 | 107418056 - 107503564 | T - 75.00% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | T - 75.00% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | T - 75.00% | TRUE | FALSE |
| 2 | 107418056 - 107503564 | T - 87.50% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | | TRUE | FALSE |
| 2 | 107418056 - 107503564 | T - 75.00% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | T - 50.00% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | | TRUE | FALSE |
| 2 | 107418056 - 107503564 | | TRUE | FALSE |
| 2 | 107418056 - 107503564 | F - 12.50% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | F - 12.50% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | F - 25.00% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | T - 50.00% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | F - 37.50% | TRUE | TRUE |
| 2 | 107418056 - 107503564 | T - 50.00% | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | | TRUE | FALSE |
| 6_ssto_hap7 | 2655408 - 2658765 | | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 12.50% | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 18.75% | FALSE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 12.50% | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 6.25% | FALSE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 18.75% | FALSE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 18.75% | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | T - 62.50% | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | F - 43.75% | TRUE | TRUE |
| 6_ssto_hap7 | 2655408 - 2658765 | T - 50.00% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | TRUE | FALSE |
| 3 | 98451080 - 98540045 | F - 6.25% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 6.25% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 34.38% | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 18.75% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 18.75% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 31.25% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | T - 56.25% | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 12.50% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 28.13% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 6.25% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 3 | 98451080 - 98540045 | T - 59.38% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | | TRUE | TRUE |
| 3 | 98451080 - 98540045 | | TRUE | TRUE |
| 3 | 98451080 - 98540045 | F - 3.13% | FALSE | TRUE |
| 3 | 98451080 - 98540045 | F - 15.63% | TRUE | TRUE |
| 3 | 98451080 - 98540045 | | FALSE | TRUE |
| 3 | 98451080 - 98540045 | | FALSE | TRUE |
| 3 | 110788918 - 110994410 | | TRUE | FALSE |
| 3 | 110788918 - 110994410 | | TRUE | FALSE |
| 3 | 110788918 - 110994410 | F - 20.00% | TRUE | TRUE |
| 3 | 110788918 - 110994410 | F - 13.33% | TRUE | TRUE |
| 3 | 110788918 - 110994410 | F - 6.67% | TRUE | TRUE |
| 3 | 110788918 - 110994410 | F - 33.33% | TRUE | TRUE |
| 3 | 110788918 - 110994410 | F - 13.33% | FALSE | TRUE |
| 15 | 47476298 - 48066420 | | TRUE | TRUE |
| 15 | 47476298 - 48066420 | F - 23.53% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | F - 17.65% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | F - 23.53% | FALSE | TRUE |
| 15 | 47476298 - 48066420 | F - 5.88% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | F - 11.76% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | F - 41.18% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | T - 100.00% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | T - 100.00% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | T - 82.35% | FALSE | TRUE |
| 15 | 47476298 - 48066420 | F - 17.65% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | | TRUE | TRUE |
| 15 | 47476298 - 48066420 | T - 100.00% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | T - 100.00% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | F - 29.41% | TRUE | TRUE |
| 15 | 47476298 - 48066420 | | FALSE | TRUE |
| 4 | 145567148 - 145666423 | | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 45.45% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 27.27% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 18.18% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 36.36% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | | TRUE | TRUE |
| 4 | 145567148 - 145666423 | F - 9.09% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 27.27% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 18.18% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 18.18% | FALSE | TRUE |
| 4 | 145567148 - 145666423 | | FALSE | TRUE |
| 4 | 145567148 - 145666423 | | TRUE | TRUE |
| 4 | 145567148 - 145666423 | T - 72.73% | TRUE | TRUE |
| 4 | 145567148 - 145666423 | | FALSE | TRUE |
| 4 | 145567148 - 145666423 | F - 27.27% | FALSE | TRUE |
| 10 | 88727949 - 88730672 | F - 20.00% | TRUE | TRUE |
| 10 | 88727949 - 88730672 | T - 60.00% | FALSE | TRUE |
| 10 | 88727949 - 88730672 | | TRUE | TRUE |
| 10 | 88727949 - 88730672 | T - 80.00% | TRUE | TRUE |
| 10 | 88727949 - 88730672 | F - 40.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 10 | 88727949 - 88730672 | T - 100.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | F - 10.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | F - 10.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | T - 50.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | F - 10.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | F - 10.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | F - 20.00% | FALSE | TRUE |
| 11 | 125825691 - 125933187 | | FALSE | TRUE |
| 11 | 125825691 - 125933187 | | FALSE | TRUE |
| 11 | 125825691 - 125933187 | T - 60.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | T - 70.00% | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | FALSE | TRUE |
| 11 | 125825691 - 125933187 | | TRUE | TRUE |
| 11 | 125825691 - 125933187 | | FALSE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 10.53% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | T - 52.63% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | FALSE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 7.89% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 23.68% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | FALSE | TRUE |
| 10 | 116190869 - 116528019 | F - 5.26% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 15.79% | FALSE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 18.42% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 7.89% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | T - 60.53% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | FALSE | TRUE |
| 10 | 116190869 - 116528019 | F - 23.68% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | FALSE | TRUE |
| 10 | 116190869 - 116528019 | | FALSE | TRUE |
| 10 | 116190869 - 116528019 | | FALSE | TRUE |
| 10 | 116190869 - 116528019 | F - 31.58% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | F - 2.63% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | T - 86.84% | TRUE | TRUE |
| 10 | 116190869 - 116528019 | | FALSE | TRUE |
| 6 | 142622991 - 142767403 | F - 11.11% | TRUE | TRUE |
| 6 | 142622991 - 142767403 | F - 22.22% | TRUE | TRUE |
| 6 | 142622991 - 142767403 | | TRUE | TRUE |
| 6 | 142622991 - 142767403 | F - 11.11% | TRUE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 6 | 142622991 - 142767403 | T - 50.00% | TRUE | TRUE |
| 6 | 142622991 - 142767403 | F - 5.56% | FALSE | TRUE |
| 6 | 142622991 - 142767403 | F - 5.56% | FALSE | TRUE |
| 6 | 142622991 - 142767403 | F - 5.56% | FALSE | TRUE |
| 6 | 142622991 - 142767403 | T - 50.00% | TRUE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |
| 6 | 142622991 - 142767403 | | TRUE | TRUE |
| 6 | 142622991 - 142767403 | T - 50.00% | TRUE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |
| 6 | 142622991 - 142767403 | T - 50.00% | FALSE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |
| 6 | 142622991 - 142767403 | | TRUE | TRUE |
| 6 | 142622991 - 142767403 | | TRUE | TRUE |
| 6 | 142622991 - 142767403 | | FALSE | TRUE |
| 7 | 128095884 - 128109251 | | TRUE | TRUE |
| 7 | 128095884 - 128109251 | | TRUE | TRUE |
| 7 | 128095884 - 128109251 | F - 30.00% | TRUE | TRUE |
| 7 | 128095884 - 128109251 | T - 70.00% | TRUE | TRUE |
| 7 | 128095884 - 128109251 | | TRUE | TRUE |
| 7 | 128095884 - 128109251 | | FALSE | TRUE |
| 7 | 128095884 - 128109251 | T - 50.00% | TRUE | TRUE |
| 7 | 128095884 - 128109251 | T - 60.00% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | F - 13.33% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | | TRUE | TRUE |
| 2 | 74759385 - 74782817 | | FALSE | TRUE |
| 2 | 74759385 - 74782817 | T - 53.33% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | F - 40.00% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | | FALSE | TRUE |
| 2 | 74759385 - 74782817 | F - 6.67% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | F - 6.67% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | F - 6.67% | FALSE | TRUE |
| 2 | 74759385 - 74782817 | | FALSE | TRUE |
| 2 | 74759385 - 74782817 | F - 13.33% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | | FALSE | TRUE |
| 2 | 74759385 - 74782817 | F - 20.00% | TRUE | TRUE |
| 2 | 74759385 - 74782817 | | FALSE | TRUE |
| 5 | 139226364 - 139422884 | T - 88.89% | TRUE | TRUE |
| 5 | 139226364 - 139422884 | | TRUE | TRUE |
| 5 | 139226364 - 139422884 | | TRUE | FALSE |
| 5 | 139226364 - 139422884 | | TRUE | TRUE |
| 5 | 139226364 - 139422884 | | FALSE | TRUE |
| 10 | 5077549 - 5149878 | F - 18.18% | TRUE | TRUE |
| 10 | 5077549 - 5149878 | F - 36.36% | TRUE | TRUE |
| 10 | 5077549 - 5149878 | F - 9.09% | FALSE | TRUE |
| 10 | 5077549 - 5149878 | F - 9.09% | FALSE | TRUE |
| 10 | 5077549 - 5149878 | F - 36.36% | TRUE | TRUE |
| 10 | 5077549 - 5149878 | F - 18.18% | FALSE | TRUE |
| 10 | 5077549 - 5149878 | | FALSE | TRUE |
| 10 | 5077549 - 5149878 | F - 9.09% | FALSE | TRUE |
| 10 | 5077549 - 5149878 | T - 63.64% | TRUE | TRUE |
| 10 | 5077549 - 5149878 | F - 9.09% | FALSE | TRUE |
| 10 | 5077549 - 5149878 | | TRUE | TRUE |
| 10 | 5077549 - 5149878 | F - 45.45% | FALSE | TRUE |
| 10 | 5077549 - 5149878 | | TRUE | TRUE |
| 10 | 5077549 - 5149878 | | TRUE | TRUE |
| 10 | 5077549 - 5149878 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 10 | 5077549 - 5149878 | | FALSE | TRUE |
| 10 | 5077549 - 5149878 | | FALSE | TRUE |
| 10 | 5077549 - 5149878 | T - 63.64% | FALSE | TRUE |
| 1 | 146334178 - 146467744 | | TRUE | TRUE |
| 1 | 146334178 - 146467744 | | TRUE | TRUE |
| 1 | 146334178 - 146467744 | F - 6.67% | TRUE | TRUE |
| 1 | 146334178 - 146467744 | | TRUE | TRUE |
| 1 | 146334178 - 146467744 | | TRUE | TRUE |
| 1 | 146334178 - 146467744 | | TRUE | TRUE |
| 2 | 9543604 - 9563676 | F - 37.04% | TRUE | FALSE |
| 2 | 9543604 - 9563676 | F - 33.33% | TRUE | TRUE |
| 2 | 9543604 - 9563676 | | TRUE | TRUE |
| 2 | 9543604 - 9563676 | | TRUE | TRUE |
| 7 | 35242042 - 35293758 | | TRUE | TRUE |
| 7 | 35242042 - 35293758 | T - 75.00% | TRUE | TRUE |
| 7 | 35242042 - 35293758 | T - 100.00% | FALSE | TRUE |
| 7 | 35242042 - 35293758 | T - 100.00% | TRUE | TRUE |
| 7 | 35242042 - 35293758 | | FALSE | TRUE |
| 7 | 35242042 - 35293758 | | FALSE | TRUE |
| 13 | 36047926 - 36515382 | F - 20.00% | TRUE | FALSE |
| 13 | 36047926 - 36515382 | T - 60.00% | TRUE | TRUE |
| 13 | 36047926 - 36515382 | | TRUE | TRUE |
| 13 | 36047926 - 36515382 | T - 60.00% | FALSE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | | TRUE | FALSE |
| 6_mann_hap4 | 2668104 - 2671477 | T - 50.00% | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 12.50% | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 18.75% | FALSE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 12.50% | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 6.25% | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 6.25% | FALSE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 18.75% | FALSE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | F - 18.75% | TRUE | TRUE |
| 6_mann_hap4 | 2668104 - 2671477 | T - 62.50% | TRUE | TRUE |
| 6_cox_hap2 | 2834338 - 2837710 | | TRUE | FALSE |
| 6_cox_hap2 | 2834338 - 2837710 | F - 18.75% | TRUE | FALSE |
| 6_cox_hap2 | 2834338 - 2837710 | | TRUE | TRUE |
| 6_cox_hap2 | 2834338 - 2837710 | F - 12.50% | TRUE | TRUE |
| 6_cox_hap2 | 2834338 - 2837710 | | TRUE | TRUE |
| 6_cox_hap2 | 2834338 - 2837710 | F - 18.75% | FALSE | TRUE |
| 6_cox_hap2 | 2834338 - 2837710 | F - 18.75% | FALSE | TRUE |
| 6_cox_hap2 | 2834338 - 2837710 | F - 6.25% | FALSE | TRUE |
| 7 | 16831435 - 16873057 | | TRUE | TRUE |
| 7 | 16831435 - 16873057 | F - 18.18% | TRUE | FALSE |
| 7 | 16831435 - 16873057 | F - 18.18% | TRUE | TRUE |
| 7 | 16831435 - 16873057 | T - 72.73% | TRUE | TRUE |
| 7 | 16831435 - 16873057 | T - 63.64% | TRUE | TRUE |
| 7 | 16831435 - 16873057 | F - 9.09% | FALSE | TRUE |
| 7 | 16831435 - 16873057 | F - 27.27% | FALSE | TRUE |
| 10 | 45466429 - 45474330 | | TRUE | TRUE |
| 10 | 45466429 - 45474330 | F - 14.29% | FALSE | TRUE |
| 10 | 45466429 - 45474330 | F - 14.29% | FALSE | TRUE |
| 1 | 77747662 - 78025654 | | TRUE | FALSE |
| 1 | 77747662 - 78025654 | | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 25.00% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 18.75% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 77747662 - 78025654 | F - 6.25% | FALSE | TRUE |
| 1 | 77747662 - 78025654 | | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 43.75% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 43.75% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 6.25% | FALSE | TRUE |
| 1 | 77747662 - 78025654 | | FALSE | TRUE |
| 1 | 77747662 - 78025654 | T - 75.00% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 43.75% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | | FALSE | TRUE |
| 1 | 77747662 - 78025654 | | TRUE | TRUE |
| 1 | 77747662 - 78025654 | | TRUE | TRUE |
| 1 | 77747662 - 78025654 | T - 50.00% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 43.75% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | T - 50.00% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | F - 43.75% | TRUE | TRUE |
| 1 | 77747662 - 78025654 | | TRUE | TRUE |
| 1 | 77747662 - 78025654 | | FALSE | TRUE |
| 12 | 110465521 - 110511491 | F - 7.14% | TRUE | FALSE |
| 12 | 110465521 - 110511491 | | TRUE | TRUE |
| 12 | 110465521 - 110511491 | F - 28.57% | FALSE | TRUE |
| 12 | 110465521 - 110511491 | F - 21.43% | TRUE | TRUE |
| 12 | 110465521 - 110511491 | | TRUE | TRUE |
| 12 | 110465521 - 110511491 | F - 7.14% | TRUE | FALSE |
| 12 | 110465521 - 110511491 | F - 28.57% | FALSE | TRUE |
| 12 | 110465521 - 110511491 | F - 28.57% | TRUE | TRUE |
| 12 | 110465521 - 110511491 | F - 21.43% | TRUE | TRUE |
| 12 | 110465521 - 110511491 | | TRUE | TRUE |
| 12 | 110465521 - 110511491 | | TRUE | TRUE |
| 12 | 110465521 - 110511491 | F - 7.14% | FALSE | TRUE |
| 12 | 110465521 - 110511491 | F - 28.57% | FALSE | TRUE |
| 12 | 110465521 - 110511491 | | FALSE | TRUE |
| 12 | 110465521 - 110511491 | F - 42.86% | TRUE | TRUE |
| 12 | 110465521 - 110511491 | F - 7.14% | TRUE | TRUE |
| 12 | 110465521 - 110511491 | F - 14.29% | FALSE | TRUE |
| 12 | 110465521 - 110511491 | T - 50.00% | TRUE | TRUE |
| 12 | 110465521 - 110511491 | T - 71.43% | TRUE | TRUE |
| 10 | 85954410 - 85979377 | | TRUE | FALSE |
| 10 | 85954410 - 85979377 | | TRUE | TRUE |
| 10 | 85954410 - 85979377 | | FALSE | TRUE |
| 10 | 85954410 - 85979377 | T - 50.00% | TRUE | TRUE |
| 21 | 33997269 - 34100359 | | TRUE | FALSE |
| 21 | 33997269 - 34100359 | | TRUE | FALSE |
| 21 | 33997269 - 34100359 | | TRUE | TRUE |
| 21 | 33997269 - 34100359 | | TRUE | TRUE |
| 21 | 33997269 - 34100359 | F - 20.00% | TRUE | TRUE |
| 21 | 33997269 - 34100359 | T - 55.00% | FALSE | TRUE |
| 21 | 33997269 - 34100359 | | TRUE | TRUE |
| 21 | 33997269 - 34100359 | F - 25.00% | FALSE | TRUE |
| 21 | 33997269 - 34100359 | F - 35.00% | TRUE | TRUE |
| 21 | 33997269 - 34100359 | F - 45.00% | TRUE | TRUE |
| 21 | 33997269 - 34100359 | | TRUE | TRUE |
| 21 | 33997269 - 34100359 | F - 15.00% | TRUE | TRUE |
| 21 | 33997269 - 34100359 | | FALSE | TRUE |
| 21 | 33997269 - 34100359 | | FALSE | TRUE |
| 21 | 33997269 - 34100359 | | FALSE | TRUE |
| 2 | 102927962 - 102968497 | | TRUE | FALSE |
| 2 | 102927962 - 102968497 | T - 66.67% | TRUE | TRUE |
| 2 | 102927962 - 102968497 | F - 8.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 102927962 - 102968497 | F - 8.33% | FALSE | TRUE |
| 2 | 102927962 - 102968497 | F - 8.33% | FALSE | TRUE |
| 2 | 102927962 - 102968497 | T - 50.00% | TRUE | TRUE |
| 2 | 102927962 - 102968497 | F - 16.67% | FALSE | TRUE |
| 2 | 102927962 - 102968497 | F - 8.33% | TRUE | TRUE |
| 2 | 102927962 - 102968497 | T - 50.00% | TRUE | TRUE |
| 2 | 102927962 - 102968497 | F - 8.33% | TRUE | TRUE |
| 2 | 102927962 - 102968497 | F - 25.00% | FALSE | TRUE |
| 2 | 102927962 - 102968497 | T - 50.00% | TRUE | TRUE |
| 2 | 102927962 - 102968497 | | FALSE | TRUE |
| 17 | 47074774 - 47133507 | | TRUE | FALSE |
| 17 | 47074774 - 47133507 | | TRUE | FALSE |
| 17 | 47074774 - 47133507 | | TRUE | TRUE |
| 17 | 47074774 - 47133507 | F - 11.11% | FALSE | TRUE |
| 17 | 47074774 - 47133507 | T - 55.56% | TRUE | TRUE |
| 17 | 47074774 - 47133507 | F - 11.11% | TRUE | TRUE |
| 1 | 94615403 - 94740624 | | TRUE | FALSE |
| 1 | 94615403 - 94740624 | F - 11.11% | TRUE | TRUE |
| 1 | 94615403 - 94740624 | F - 33.33% | TRUE | TRUE |
| 1 | 94615403 - 94740624 | F - 11.11% | FALSE | TRUE |
| 1 | 94615403 - 94740624 | F - 44.44% | TRUE | TRUE |
| 1 | 94615403 - 94740624 | F - 22.22% | TRUE | TRUE |
| 1 | 94615403 - 94740624 | F - 11.11% | FALSE | TRUE |
| 1 | 94615403 - 94740624 | | FALSE | TRUE |
| 1 | 94615403 - 94740624 | | FALSE | TRUE |
| 1 | 94615403 - 94740624 | | TRUE | TRUE |
| 1 | 94615403 - 94740624 | | TRUE | TRUE |
| 1 | 111743393 - 111786062 | | TRUE | TRUE |
| 1 | 111743393 - 111786062 | F - 5.26% | TRUE | TRUE |
| 1 | 111743393 - 111786062 | F - 15.79% | TRUE | TRUE |
| 1 | 111743393 - 111786062 | | FALSE | TRUE |
| 1 | 111743393 - 111786062 | F - 10.53% | FALSE | TRUE |
| 1 | 111743393 - 111786062 | F - 5.26% | TRUE | TRUE |
| 1 | 111743393 - 111786062 | | FALSE | TRUE |
| 1 | 111743393 - 111786062 | F - 5.26% | TRUE | TRUE |
| 1 | 111743393 - 111786062 | | FALSE | TRUE |
| 1 | 111743393 - 111786062 | F - 15.79% | TRUE | TRUE |
| 1 | 111743393 - 111786062 | F - 21.05% | TRUE | TRUE |
| 1 | 111743393 - 111786062 | | FALSE | TRUE |
| 3 | 50337320 - 50349812 | F - 5.56% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | | TRUE | FALSE |
| 3 | 50337320 - 50349812 | | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 16.67% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 5.56% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 22.22% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 5.56% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 16.67% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 11.11% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | F - 11.11% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | T - 77.78% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | T - 77.78% | TRUE | TRUE |
| 3 | 50337320 - 50349812 | | TRUE | TRUE |
| 2 | 36583069 - 36778278 | | TRUE | FALSE |
| 2 | 36583069 - 36778278 | | TRUE | TRUE |
| 2 | 36583069 - 36778278 | | TRUE | TRUE |
| 2 | 36583069 - 36778278 | | TRUE | TRUE |
| 2 | 36583069 - 36778278 | F - 10.00% | TRUE | TRUE |
| 2 | 36583069 - 36778278 | | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 2 | 36583069 - 36778278 | F - 30.00% | TRUE | TRUE |
| 2 | 36583069 - 36778278 | | FALSE | TRUE |
| 6 | 20100935 - 20212670 | T - 87.50% | TRUE | TRUE |
| 6 | 20100935 - 20212670 | T - 62.50% | TRUE | TRUE |
| 6 | 20100935 - 20212670 | T - 100.00% | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | FALSE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | FALSE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | | TRUE | TRUE |
| 6 | 20100935 - 20212670 | T - 87.50% | TRUE | TRUE |
| 6 | 20100935 - 20212670 | F - 37.50% | TRUE | TRUE |
| 1 | 153516089 - 153522612 | F - 9.09% | TRUE | TRUE |
| 1 | 153516089 - 153522612 | F - 9.09% | TRUE | TRUE |
| 1 | 153516089 - 153522612 | | FALSE | TRUE |
| 1 | 153516089 - 153522612 | F - 9.09% | FALSE | TRUE |
| 1 | 153516089 - 153522612 | F - 18.18% | TRUE | TRUE |
| 1 | 153516089 - 153522612 | F - 9.09% | TRUE | TRUE |
| 1 | 25870071 - 25895377 | | TRUE | TRUE |
| 1 | 25870071 - 25895377 | F - 27.27% | TRUE | TRUE |
| 1 | 25870071 - 25895377 | F - 18.18% | TRUE | TRUE |
| 1 | 25870071 - 25895377 | | TRUE | TRUE |
| 1 | 25870071 - 25895377 | F - 9.09% | TRUE | TRUE |
| 1 | 25870071 - 25895377 | F - 9.09% | TRUE | TRUE |
| 6 | 26281283 - 26285762 | | TRUE | TRUE |
| 6 | 26281283 - 26285762 | F - 25.00% | TRUE | TRUE |
| 6 | 26281283 - 26285762 | F - 25.00% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 5.00% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 5.00% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 20.00% | TRUE | FALSE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 7.50% | FALSE | TRUE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | FALSE | TRUE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | FALSE | TRUE |
| 8 | 134249414 - 134314265 | | FALSE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 5.00% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 7.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 2.50% | TRUE | TRUE |
| 8 | 134249414 - 134314265 | F - 5.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 3 | 115521210 - 117716439 | | TRUE | FALSE |
| 3 | 115521210 - 117716439 | | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 41.67% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | | TRUE | TRUE |
| 3 | 115521210 - 117716439 | T - 50.00% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 33.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | FALSE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 16.67% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | | TRUE | TRUE |
| 3 | 115521210 - 117716439 | F - 8.33% | TRUE | TRUE |
| 3 | 115521210 - 117716439 | | TRUE | TRUE |
| 16 | 69743304 - 69760707 | T - 66.67% | TRUE | TRUE |
| 16 | 69743304 - 69760707 | F - 11.11% | TRUE | TRUE |
| 16 | 69743304 - 69760707 | | TRUE | TRUE |
| 16 | 69743304 - 69760707 | T - 100.00% | TRUE | TRUE |
| 16 | 69743304 - 69760707 | | FALSE | TRUE |
| 16 | 69743304 - 69760707 | | TRUE | TRUE |
| 16 | 69743304 - 69760707 | | FALSE | TRUE |
| 16 | 69743304 - 69760707 | | TRUE | TRUE |
| 17 | 15531274 - 15587613 | | TRUE | TRUE |
| 17 | 15531274 - 15587613 | F - 20.00% | TRUE | FALSE |
| 17 | 15531274 - 15587613 | F - 20.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | | TRUE | TRUE |
| 17 | 15531274 - 15587613 | T - 50.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | | TRUE | TRUE |
| 17 | 15531274 - 15587613 | T - 80.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | T - 70.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | T - 50.00% | FALSE | TRUE |
| 17 | 15531274 - 15587613 | F - 30.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | | TRUE | TRUE |
| 17 | 15531274 - 15587613 | F - 10.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | T - 50.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | F - 20.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | F - 40.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | F - 20.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | | FALSE | TRUE |
| 17 | 15531274 - 15587613 | F - 20.00% | TRUE | TRUE |
| 17 | 15531274 - 15587613 | T - 70.00% | TRUE | TRUE |
| 10 | 64018916 - 64431771 | | TRUE | FALSE |
| 10 | 64018916 - 64431771 | | TRUE | FALSE |
| 10 | 64018916 - 64431771 | F - 26.32% | TRUE | TRUE |
| 10 | 64018916 - 64431771 | | TRUE | FALSE |
| 10 | 64018916 - 64431771 | F - 47.37% | TRUE | TRUE |
| 10 | 64018916 - 64431771 | F - 5.26% | TRUE | TRUE |
| 1 | 155629233 - 155658823 | | TRUE | FALSE |
| 1 | 155629233 - 155658823 | | TRUE | FALSE |
| 1 | 155629233 - 155658823 | F - 18.52% | TRUE | TRUE |
| 1 | 155629233 - 155658823 | F - 1.85% | TRUE | TRUE |
| 1 | 155629233 - 155658823 | | TRUE | FALSE |
| 1 | 155629233 - 155658823 | | TRUE | TRUE |
| 1 | 155629233 - 155658823 | | FALSE | TRUE |
| 1 | 155629233 - 155658823 | F - 7.41% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 17 | 19437141 - 19482347 | | TRUE | TRUE |
| 17 | 19437141 - 19482347 | F - 5.26% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | F - 5.26% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | F - 10.53% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | TRUE | TRUE |
| 17 | 19437141 - 19482347 | F - 5.26% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 17 | 19437141 - 19482347 | T - 84.21% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 17 | 19437141 - 19482347 | T - 68.42% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 17 | 19437141 - 19482347 | T - 63.16% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | T - 84.21% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | TRUE | TRUE |
| 17 | 19437141 - 19482347 | F - 47.37% | FALSE | TRUE |
| 17 | 19437141 - 19482347 | T - 63.16% | FALSE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 17 | 19437141 - 19482347 | T - 63.16% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | T - 57.89% | FALSE | TRUE |
| 17 | 19437141 - 19482347 | T - 63.16% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | T - 52.63% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | TRUE | TRUE |
| 17 | 19437141 - 19482347 | T - 68.42% | TRUE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 17 | 19437141 - 19482347 | | FALSE | TRUE |
| 19 | 43670408 - 43690688 | | TRUE | TRUE |
| 19 | 43670408 - 43690688 | | FALSE | TRUE |
| 19 | 43670408 - 43690688 | T - 58.33% | FALSE | TRUE |
| 19 | 43670408 - 43690688 | F - 8.33% | FALSE | TRUE |
| 19 | 43670408 - 43690688 | | TRUE | TRUE |
| 19 | 43670408 - 43690688 | F - 8.33% | FALSE | TRUE |
| 19 | 43670408 - 43690688 | F - 8.33% | FALSE | TRUE |
| 19 | 43670408 - 43690688 | T - 75.00% | TRUE | TRUE |
| 19 | 43670408 - 43690688 | | TRUE | TRUE |
| 19 | 43670408 - 43690688 | F - 8.33% | TRUE | TRUE |
| 19 | 43670408 - 43690688 | F - 8.33% | FALSE | TRUE |
| 19 | 43670408 - 43690688 | F - 8.33% | TRUE | TRUE |
| 19 | 43670408 - 43690688 | | TRUE | TRUE |
| 19 | 43670408 - 43690688 | | TRUE | TRUE |
| 16 | 15068599 - 15233196 | | TRUE | TRUE |
| 16 | 15068599 - 15233196 | | TRUE | TRUE |
| 16 | 15068599 - 15233196 | F - 5.56% | TRUE | TRUE |
| 16 | 15068599 - 15233196 | | FALSE | TRUE |
| 16 | 15068599 - 15233196 | | TRUE | TRUE |
| 3 | 49711435 - 49721396 | | TRUE | TRUE |
| 3 | 49711435 - 49721396 | T - 55.56% | FALSE | TRUE |
| 3 | 49711435 - 49721396 | | TRUE | TRUE |
| 6 | 31236526 - 31239913 | | TRUE | FALSE |
| 6 | 31236526 - 31239913 | F - 20.00% | TRUE | TRUE |
| 6 | 31236526 - 31239913 | F - 10.00% | TRUE | TRUE |
| 6 | 31236526 - 31239913 | | TRUE | TRUE |
| 6 | 31236526 - 31239913 | | TRUE | TRUE |
| 6 | 31236526 - 31239913 | F - 5.00% | TRUE | TRUE |
| 6 | 31236526 - 31239913 | | TRUE | TRUE |
| 4 | 103172198 - 103274157 | F - 9.09% | TRUE | FALSE |
| 4 | 103172198 - 103274157 | F - 18.18% | TRUE | TRUE |
| 4 | 103172198 - 103274157 | F - 18.18% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 4 | 103172198 - 103274157 | F - 9.09% | TRUE | TRUE |
| 4 | 103172198 - 103274157 | F - 9.09% | FALSE | TRUE |
| 4 | 103172198 - 103274157 | F - 18.18% | FALSE | TRUE |
| 4 | 103172198 - 103274157 | | FALSE | TRUE |
| 4 | 103172198 - 103274157 | T - 54.55% | TRUE | TRUE |
| 4 | 103172198 - 103274157 | F - 27.27% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | F - 21.43% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | FALSE | TRUE |
| 8 | 28203102 - 28260218 | F - 35.71% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | F - 21.43% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | F - 7.14% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | T - 57.14% | FALSE | TRUE |
| 8 | 28203102 - 28260218 | F - 7.14% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | FALSE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | T - 71.43% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | FALSE | TRUE |
| 8 | 28203102 - 28260218 | F - 28.57% | TRUE | TRUE |
| 8 | 28203102 - 28260218 | | FALSE | TRUE |
| 8 | 28203102 - 28260218 | F - 42.86% | FALSE | TRUE |
| 8 | 28203102 - 28260218 | | FALSE | TRUE |
| 8 | 28203102 - 28260218 | | TRUE | TRUE |
| 1 | 9095166 - 9148537 | | TRUE | FALSE |
| 1 | 9095166 - 9148537 | | TRUE | TRUE |
| 1 | 9095166 - 9148537 | | TRUE | TRUE |
| 1 | 9095166 - 9148537 | | TRUE | TRUE |
| 1 | 9095166 - 9148537 | T - 68.18% | TRUE | TRUE |
| 1 | 9095166 - 9148537 | F - 4.55% | TRUE | FALSE |
| 1 | 9095166 - 9148537 | F - 22.73% | TRUE | TRUE |
| 1 | 9095166 - 9148537 | | TRUE | TRUE |
| 1 | 9095166 - 9148537 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 50.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 60.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | F - 25.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |

| | | | | |
|---|---------------------|------------|-------|-------|
| 2 | 28680012 - 28866654 | T - 50.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | F - 20.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | FALSE |
| 2 | 28680012 - 28866654 | F - 5.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 5.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 5.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | TRUE | FALSE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | T - 55.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 5.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | T - 50.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 25.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 45.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 5.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | FALSE | TRUE |
| 2 | 28680012 - 28866654 | F - 5.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 15.00% | FALSE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 45.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | FALSE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | FALSE | TRUE |
| 2 | 28680012 - 28866654 | F - 30.00% | TRUE | TRUE |
| 2 | 28680012 - 28866654 | F - 35.00% | FALSE | TRUE |
| 2 | 28680012 - 28866654 | F - 45.00% | FALSE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | FALSE |
| Y | 14813160 - 14972768 | | TRUE | FALSE |
| Y | 14813160 - 14972768 | | TRUE | FALSE |

| | | | | |
|---|--------------------------|-------------|-------|-------|
| Y | 14813160 - 14972768 | | TRUE | FALSE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | FALSE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | FALSE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | FALSE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | FALSE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 50.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | | TRUE | TRUE |
| Y | 14813160 - 14972768 | T - 75.00% | TRUE | TRUE |
| Y | 14813160 - 14972768 | F - 37.50% | FALSE | TRUE |
| | 17 46667782 - 46683776 | F - 48.15% | TRUE | TRUE |
| | 17 46667782 - 46683776 | | TRUE | TRUE |
| | 17 46667782 - 46683776 | | TRUE | FALSE |
| | 17 46667782 - 46683776 | F - 44.44% | TRUE | TRUE |
| | 17 46667782 - 46683776 | F - 14.81% | TRUE | TRUE |
| | 17 46667782 - 46683776 | F - 7.41% | TRUE | TRUE |
| | 17 46667782 - 46683776 | | TRUE | TRUE |
| | 17 46667782 - 46683776 | | TRUE | TRUE |
| | 17 46667782 - 46683776 | F - 3.70% | FALSE | TRUE |
| | 10 115511213 - 115543188 | | TRUE | TRUE |
| | 10 115511213 - 115543188 | | TRUE | TRUE |
| | 10 115511213 - 115543188 | F - 8.33% | TRUE | TRUE |
| | 10 115511213 - 115543188 | | TRUE | TRUE |
| | 10 115511213 - 115543188 | F - 16.67% | TRUE | TRUE |
| | 10 115511213 - 115543188 | | TRUE | TRUE |
| | 10 115511213 - 115543188 | F - 33.33% | FALSE | TRUE |
| | 10 115511213 - 115543188 | F - 33.33% | FALSE | TRUE |
| | 10 115511213 - 115543188 | | TRUE | TRUE |
| | 10 115511213 - 115543188 | | FALSE | TRUE |
| | 10 115511213 - 115543188 | | FALSE | TRUE |
| | 10 115511213 - 115543188 | | FALSE | TRUE |
| | 19 15270444 - 15311792 | | TRUE | TRUE |
| | 19 15270444 - 15311792 | | TRUE | TRUE |
| | 19 15270444 - 15311792 | | TRUE | TRUE |
| | 19 15270444 - 15311792 | | TRUE | TRUE |
| | 19 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 19 | 15270444 - 15311792 | | FALSE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | | TRUE | TRUE |
| 19 | 15270444 - 15311792 | | TRUE | TRUE |
| 19 | 15270444 - 15311792 | | FALSE | TRUE |
| 19 | 15270444 - 15311792 | T - 75.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 100.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | T - 75.00% | TRUE | TRUE |
| 19 | 15270444 - 15311792 | | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 7.14% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 7.14% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 14.29% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 7.14% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 7.14% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 14.29% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 14.29% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 7.14% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | F - 7.14% | TRUE | TRUE |
| 15 | 39873127 - 39891667 | | TRUE | TRUE |
| 15 | 39873127 - 39891667 | | TRUE | TRUE |
| 12 | 113594978 - 113623284 | | TRUE | FALSE |
| 12 | 113594978 - 113623284 | T - 66.67% | TRUE | TRUE |
| 12 | 113594978 - 113623284 | | FALSE | TRUE |
| 11 | 33278218 - 33378569 | | TRUE | TRUE |
| 11 | 33278218 - 33378569 | F - 18.18% | TRUE | TRUE |
| 12 | 15066969 - 15092016 | | TRUE | TRUE |
| 12 | 15066969 - 15092016 | F - 20.00% | TRUE | TRUE |
| 12 | 15066969 - 15092016 | F - 20.00% | TRUE | TRUE |
| 12 | 15066969 - 15092016 | T - 60.00% | TRUE | TRUE |
| 12 | 15066969 - 15092016 | T - 60.00% | FALSE | TRUE |
| 12 | 15066969 - 15092016 | | FALSE | TRUE |
| 12 | 15066969 - 15092016 | T - 80.00% | TRUE | TRUE |
| 12 | 15066969 - 15092016 | T - 100.00% | TRUE | TRUE |
| 12 | 15066969 - 15092016 | | FALSE | TRUE |
| 15 | 67358183 - 67487533 | | TRUE | FALSE |
| 15 | 67358183 - 67487533 | | TRUE | TRUE |
| 15 | 67358183 - 67487533 | F - 8.33% | TRUE | TRUE |
| 15 | 67358183 - 67487533 | | FALSE | TRUE |
| 15 | 67358183 - 67487533 | F - 25.00% | TRUE | TRUE |
| 15 | 67358183 - 67487533 | F - 16.67% | FALSE | TRUE |
| 15 | 67358183 - 67487533 | F - 8.33% | FALSE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 87.50% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | F - 12.50% | FALSE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 50.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | F - 25.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 75.00% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 50.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | F - 37.50% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 50.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 75.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | FALSE | TRUE |
| 17 | 40932649 - 40949084 | T - 75.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 62.50% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | F - 37.50% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | FALSE | TRUE |
| 17 | 40932649 - 40949084 | | FALSE | TRUE |
| 17 | 40932649 - 40949084 | | FALSE | TRUE |
| 17 | 40932649 - 40949084 | T - 100.00% | FALSE | TRUE |
| 17 | 40932649 - 40949084 | T - 100.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 100.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | T - 50.00% | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | TRUE | TRUE |
| 17 | 40932649 - 40949084 | | FALSE | TRUE |
| 17 | 40932649 - 40949084 | | FALSE | TRUE |
| 8 | 27348296 - 27403081 | | TRUE | FALSE |
| 8 | 27348296 - 27403081 | | TRUE | FALSE |
| 8 | 27348296 - 27403081 | | TRUE | TRUE |
| 8 | 27348296 - 27403081 | | TRUE | TRUE |
| 8 | 27348296 - 27403081 | | FALSE | TRUE |
| 8 | 27348296 - 27403081 | T - 63.64% | TRUE | TRUE |
| 8 | 27348296 - 27403081 | T - 77.27% | TRUE | TRUE |
| 8 | 27348296 - 27403081 | | FALSE | TRUE |
| 1 | 205271187 - 205290883 | | TRUE | TRUE |
| 1 | 205271187 - 205290883 | | TRUE | TRUE |
| 1 | 205271187 - 205290883 | | FALSE | TRUE |
| 1 | 205271187 - 205290883 | F - 25.00% | FALSE | TRUE |
| 1 | 205271187 - 205290883 | | TRUE | TRUE |
| 1 | 205271187 - 205290883 | T - 75.00% | TRUE | TRUE |
| 1 | 205271187 - 205290883 | | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | | TRUE | FALSE |
| 6_cox_hap2 | 2749781 - 2753168 | F - 10.53% | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | F - 15.79% | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | | TRUE | TRUE |
| 6_cox_hap2 | 2749781 - 2753168 | | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 39.13% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 39.13% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 47.83% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 30.43% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 34.78% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 43.48% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 4.35% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | | TRUE | FALSE |
| 2 | 111143988 - 111230652 | | TRUE | TRUE |
| 2 | 111143988 - 111230652 | F - 4.35% | TRUE | TRUE |
| 2 | 111143988 - 111230652 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | T - 60.00% | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | F - 8.00% | TRUE | TRUE |
| 2 | 197831741 - 198175897 | F - 8.00% | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | F - 12.00% | TRUE | TRUE |
| 2 | 197831741 - 198175897 | F - 20.00% | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | F - 16.00% | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | | TRUE | TRUE |
| 2 | 197831741 - 198175897 | T - 64.00% | TRUE | TRUE |
| 12 | 122277433 - 122326517 | F - 42.86% | TRUE | TRUE |
| 12 | 122277433 - 122326517 | | FALSE | TRUE |
| 12 | 122277433 - 122326517 | F - 28.57% | TRUE | TRUE |
| 12 | 122277433 - 122326517 | T - 85.71% | TRUE | TRUE |
| 12 | 122277433 - 122326517 | | TRUE | TRUE |
| 12 | 122277433 - 122326517 | | FALSE | TRUE |
| 12 | 122277433 - 122326517 | F - 14.29% | FALSE | TRUE |
| 12 | 122277433 - 122326517 | T - 85.71% | FALSE | TRUE |
| 12 | 122277433 - 122326517 | F - 28.57% | FALSE | TRUE |
| 12 | 122277433 - 122326517 | T - 85.71% | TRUE | TRUE |
| 12 | 122277433 - 122326517 | | FALSE | TRUE |
| 12 | 122277433 - 122326517 | | FALSE | TRUE |
| 14 | 93170152 - 93215047 | T - 50.00% | TRUE | FALSE |
| 14 | 93170152 - 93215047 | | TRUE | TRUE |
| 1 | 244214561 - 244220778 | | TRUE | FALSE |
| 1 | 244214561 - 244220778 | T - 83.33% | TRUE | TRUE |
| 1 | 244214561 - 244220778 | | TRUE | TRUE |
| 1 | 244214561 - 244220778 | | FALSE | TRUE |
| 1 | 244214561 - 244220778 | F - 16.67% | TRUE | TRUE |
| 1 | 244214561 - 244220778 | T - 66.67% | TRUE | TRUE |
| 1 | 156219015 - 156252620 | | TRUE | FALSE |
| 1 | 156219015 - 156252620 | | TRUE | TRUE |
| 1 | 156219015 - 156252620 | | FALSE | TRUE |
| 1 | 156219015 - 156252620 | | FALSE | TRUE |
| 1 | 156219015 - 156252620 | F - 33.33% | FALSE | TRUE |
| 7 | 855528 - 914557 | | TRUE | FALSE |
| 7 | 855528 - 914557 | F - 4.44% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 17.78% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 15.56% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 20.00% | TRUE | TRUE |
| 7 | 855528 - 914557 | | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | FALSE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | | FALSE | TRUE |
| 7 | 855528 - 914557 | F - 22.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 11.11% | FALSE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 13.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 855528 - 914557 | | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | | FALSE | TRUE |
| 7 | 855528 - 914557 | F - 6.67% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 4.44% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 22.22% | TRUE | TRUE |
| 7 | 855528 - 914557 | F - 2.22% | TRUE | TRUE |
| 3 | 133651540 - 133771028 | | TRUE | TRUE |
| 3 | 133651540 - 133771028 | T - 66.67% | TRUE | TRUE |
| 3 | 133651540 - 133771028 | | TRUE | TRUE |
| 3 | 133651540 - 133771028 | | TRUE | FALSE |
| 3 | 133651540 - 133771028 | T - 50.00% | TRUE | TRUE |
| 3 | 133651540 - 133771028 | F - 25.00% | TRUE | TRUE |
| 3 | 133651540 - 133771028 | | TRUE | TRUE |
| 3 | 133651540 - 133771028 | | FALSE | TRUE |
| 3 | 133651540 - 133771028 | F - 33.33% | TRUE | TRUE |
| 3 | 133651540 - 133771028 | F - 8.33% | FALSE | TRUE |
| 3 | 133651540 - 133771028 | F - 33.33% | TRUE | TRUE |
| 3 | 133651540 - 133771028 | F - 16.67% | FALSE | TRUE |
| 3 | 133651540 - 133771028 | F - 8.33% | FALSE | TRUE |
| 3 | 133651540 - 133771028 | | FALSE | TRUE |
| 3 | 133651540 - 133771028 | | FALSE | TRUE |
| 3 | 133651540 - 133771028 | | FALSE | TRUE |
| 11 | 92085262 - 92629636 | | TRUE | FALSE |
| 11 | 92085262 - 92629636 | | TRUE | FALSE |
| 11 | 92085262 - 92629636 | | TRUE | TRUE |
| 11 | 92085262 - 92629636 | T - 50.00% | TRUE | TRUE |
| 11 | 92085262 - 92629636 | T - 70.00% | TRUE | TRUE |
| 11 | 92085262 - 92629636 | | TRUE | FALSE |
| 11 | 92085262 - 92629636 | T - 50.00% | FALSE | TRUE |
| 2 | 40339286 - 40838193 | | TRUE | FALSE |
| 2 | 40339286 - 40838193 | F - 3.85% | TRUE | TRUE |
| 2 | 40339286 - 40838193 | F - 7.69% | TRUE | TRUE |
| 2 | 40339286 - 40838193 | F - 11.54% | FALSE | TRUE |
| 2 | 40339286 - 40838193 | F - 7.69% | TRUE | TRUE |
| 2 | 40339286 - 40838193 | F - 38.46% | FALSE | TRUE |
| 2 | 40339286 - 40838193 | F - 7.69% | TRUE | TRUE |
| 2 | 40339286 - 40838193 | F - 3.85% | TRUE | TRUE |
| 2 | 40339286 - 40838193 | | TRUE | TRUE |
| 3 | 150320662 - 150348234 | | TRUE | FALSE |
| 3 | 150320662 - 150348234 | F - 7.14% | TRUE | TRUE |
| 3 | 150320662 - 150348234 | | FALSE | TRUE |
| 17 | 7761064 - 7780399 | | TRUE | FALSE |
| 17 | 7761064 - 7780399 | T - 80.00% | TRUE | TRUE |
| 2 | 8818975 - 8824583 | | FALSE | TRUE |
| 2 | 8818975 - 8824583 | F - 16.67% | TRUE | TRUE |
| 2 | 8818975 - 8824583 | T - 50.00% | TRUE | TRUE |
| 2 | 8818975 - 8824583 | F - 16.67% | FALSE | TRUE |
| 2 | 8818975 - 8824583 | F - 16.67% | FALSE | TRUE |
| 2 | 47055003 - 47086146 | | TRUE | TRUE |
| 2 | 47055003 - 47086146 | F - 25.00% | TRUE | TRUE |
| 2 | 47055003 - 47086146 | | FALSE | TRUE |
| 2 | 47055003 - 47086146 | T - 50.00% | FALSE | TRUE |
| 2 | 47055003 - 47086146 | F - 25.00% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | FALSE |
| 11 | 16798844 - 17035990 | T - 69.23% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | FALSE |
| 11 | 16798844 - 17035990 | T - 69.23% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | FALSE |
| 11 | 16798844 - 17035990 | T - 69.23% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | FALSE |
| 11 | 16798844 - 17035990 | F - 15.38% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | T - 69.23% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | T - 84.62% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | T - 84.62% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | F - 7.69% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | F - 7.69% | TRUE | TRUE |
| 11 | 16798844 - 17035990 | F - 15.38% | FALSE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | F - 46.15% | FALSE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 11 | 16798844 - 17035990 | | TRUE | TRUE |
| 1 | 162601163 - 162750247 | F - 20.00% | TRUE | TRUE |
| 1 | 162601163 - 162750247 | | TRUE | FALSE |
| 1 | 162601163 - 162750247 | F - 10.00% | FALSE | TRUE |
| 3 | 29224445 - 30051886 | F - 4.55% | TRUE | TRUE |
| 3 | 29224445 - 30051886 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | T - 61.11% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 22.22% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 5.56% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | T - 55.56% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 44.44% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 33.33% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 38.89% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 1 | 53708041 - 53793821 | F - 5.56% | FALSE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 11.11% | FALSE | TRUE |
| 1 | 53708041 - 53793821 | T - 66.67% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | T - 61.11% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 1 | 53708041 - 53793821 | | TRUE | TRUE |
| 1 | 53708041 - 53793821 | T - 83.33% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 1 | 53708041 - 53793821 | T - 72.22% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | F - 27.78% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | T - 61.11% | TRUE | TRUE |
| 1 | 53708041 - 53793821 | | FALSE | TRUE |
| 4 | 74962754 - 74965010 | F - 40.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 4 | 74962754 - 74965010 | T - 100.00% | TRUE | TRUE |
| 4 | 74962754 - 74965010 | F - 20.00% | TRUE | TRUE |
| 4 | 74962754 - 74965010 | F - 20.00% | TRUE | TRUE |
| 4 | 74962754 - 74965010 | T - 60.00% | TRUE | TRUE |
| 4 | 74962754 - 74965010 | F - 40.00% | FALSE | TRUE |
| 4 | 74962754 - 74965010 | | FALSE | TRUE |
| 4 | 74962754 - 74965010 | F - 20.00% | TRUE | TRUE |
| 4 | 74962754 - 74965010 | T - 80.00% | FALSE | TRUE |
| 4 | 74962754 - 74965010 | | TRUE | TRUE |
| 4 | 100010008 - 100222513 | | TRUE | FALSE |
| 4 | 100010008 - 100222513 | | TRUE | FALSE |
| 4 | 100010008 - 100222513 | F - 37.50% | TRUE | TRUE |
| 4 | 100010008 - 100222513 | | TRUE | FALSE |
| 4 | 100010008 - 100222513 | F - 12.50% | TRUE | TRUE |
| 4 | 100010008 - 100222513 | F - 37.50% | TRUE | TRUE |
| 4 | 100010008 - 100222513 | F - 25.00% | FALSE | TRUE |
| 10 | 90639491 - 90734910 | | TRUE | FALSE |
| 10 | 90639491 - 90734910 | | TRUE | TRUE |
| 10 | 90639491 - 90734910 | | TRUE | TRUE |
| 10 | 90639491 - 90734910 | F - 11.11% | FALSE | TRUE |
| 10 | 90639491 - 90734910 | F - 11.11% | TRUE | TRUE |
| 10 | 90639491 - 90734910 | F - 22.22% | TRUE | TRUE |
| 10 | 90639491 - 90734910 | F - 22.22% | TRUE | TRUE |
| 10 | 90639491 - 90734910 | F - 11.11% | FALSE | TRUE |
| 10 | 90639491 - 90734910 | | TRUE | TRUE |
| 10 | 90639491 - 90734910 | T - 55.56% | FALSE | TRUE |
| 10 | 90639491 - 90734910 | | FALSE | TRUE |
| 10 | 90639491 - 90734910 | | TRUE | TRUE |
| 18 | 67671043 - 67872962 | | TRUE | TRUE |
| 18 | 67671043 - 67872962 | | TRUE | FALSE |
| 18 | 67671043 - 67872962 | | TRUE | FALSE |
| 18 | 67671043 - 67872962 | | TRUE | FALSE |
| 18 | 67671043 - 67872962 | | TRUE | FALSE |
| 18 | 67671043 - 67872962 | | TRUE | TRUE |
| 18 | 67671043 - 67872962 | T - 66.67% | TRUE | TRUE |
| 18 | 67671043 - 67872962 | T - 77.78% | TRUE | TRUE |
| 18 | 67671043 - 67872962 | | FALSE | TRUE |
| 18 | 67671043 - 67872962 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | FALSE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | F - 10.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 70.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | F - 10.00% | FALSE | TRUE |
| 5 | 127593601 - 127994878 | F - 20.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 60.00% | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | F - 10.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 50.00% | FALSE | TRUE |
| 5 | 127593601 - 127994878 | T - 80.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | F - 30.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 5 | 127593601 - 127994878 | F - 30.00% | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 60.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 80.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 50.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | T - 80.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | F - 30.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | F - 30.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 60.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 60.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 50.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | TRUE | TRUE |
| 5 | 127593601 - 127994878 | T - 50.00% | TRUE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 5 | 127593601 - 127994878 | | FALSE | TRUE |
| 9 | 86451613 - 86536342 | | TRUE | TRUE |
| 9 | 86451613 - 86536342 | | TRUE | TRUE |
| 9 | 86451613 - 86536342 | T - 77.78% | TRUE | FALSE |
| 9 | 86451613 - 86536342 | T - 77.78% | TRUE | TRUE |
| 9 | 86451613 - 86536342 | | TRUE | TRUE |
| 9 | 86451613 - 86536342 | | FALSE | TRUE |
| 9 | 86451613 - 86536342 | | FALSE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | | TRUE | TRUE |
| 10 | 77029577 - 77133258 | | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 18.18% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 18.18% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | T - 63.64% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | FALSE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | TRUE | TRUE |
| 10 | 77029577 - 77133258 | | TRUE | TRUE |
| 10 | 77029577 - 77133258 | F - 9.09% | FALSE | TRUE |
| 10 | 77029577 - 77133258 | | FALSE | TRUE |
| 10 | 77029577 - 77133258 | | FALSE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | FALSE |
| 1 | 6521211 - 6580121 | | TRUE | FALSE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 28.57% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 3.57% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 6521211 - 6580121 | F - 5.36% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 1.79% | TRUE | FALSE |
| 1 | 6521211 - 6580121 | F - 44.64% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | FALSE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 44.64% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 37.50% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 8.93% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 28.57% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 44.64% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 42.86% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 48.21% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 44.64% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 44.64% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 42.86% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 46.43% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 46.43% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 7.14% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | F - 41.07% | TRUE | TRUE |
| 1 | 6521211 - 6580121 | | TRUE | TRUE |
| 1 | 101185196 - 101204601 | | TRUE | TRUE |
| 1 | 101185196 - 101204601 | F - 37.50% | TRUE | TRUE |
| 1 | 101185196 - 101204601 | | FALSE | TRUE |
| 1 | 101185196 - 101204601 | | TRUE | TRUE |
| 1 | 101185196 - 101204601 | T - 100.00% | FALSE | TRUE |
| 1 | 101185196 - 101204601 | | FALSE | TRUE |
| 1 | 101185196 - 101204601 | | FALSE | TRUE |
| 1 | 179851177 - 179890583 | | TRUE | TRUE |
| 1 | 179851177 - 179890583 | F - 10.00% | TRUE | TRUE |
| 1 | 179851177 - 179890583 | F - 10.00% | FALSE | TRUE |
| 1 | 179851177 - 179890583 | T - 100.00% | TRUE | TRUE |
| 1 | 179851177 - 179890583 | | TRUE | TRUE |
| X | 109917084 - 110039286 | F - 30.77% | TRUE | TRUE |
| X | 109917084 - 110039286 | F - 46.15% | TRUE | TRUE |
| X | 109917084 - 110039286 | | TRUE | TRUE |
| X | 109917084 - 110039286 | F - 30.77% | TRUE | TRUE |
| X | 109917084 - 110039286 | | TRUE | TRUE |
| X | 109917084 - 110039286 | | TRUE | TRUE |
| X | 109917084 - 110039286 | | TRUE | TRUE |
| X | 109917084 - 110039286 | | TRUE | TRUE |
| 11 | 18621334 - 18631802 | | TRUE | FALSE |
| 11 | 18621334 - 18631802 | T - 75.00% | TRUE | TRUE |
| 11 | 18621334 - 18631802 | T - 75.00% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 18621334 - 18631802 | T - 75.00% | FALSE | TRUE |
| 17 | 25783670 - 25953461 | | TRUE | TRUE |
| 17 | 25783670 - 25953461 | | TRUE | TRUE |
| 17 | 25783670 - 25953461 | | TRUE | FALSE |
| 17 | 25783670 - 25953461 | | TRUE | TRUE |
| 17 | 25783670 - 25953461 | F - 7.69% | FALSE | TRUE |
| 17 | 25783670 - 25953461 | | TRUE | TRUE |
| 17 | 25783670 - 25953461 | F - 38.46% | TRUE | TRUE |
| 17 | 25783670 - 25953461 | | TRUE | TRUE |
| 17 | 25783670 - 25953461 | | FALSE | TRUE |
| 8 | 69242957 - 69731258 | | TRUE | TRUE |
| 8 | 69242957 - 69731258 | | TRUE | FALSE |
| 8 | 69242957 - 69731258 | T - 64.29% | TRUE | TRUE |
| 8 | 69242957 - 69731258 | | TRUE | FALSE |
| 8 | 69242957 - 69731258 | | TRUE | FALSE |
| 8 | 69242957 - 69731258 | T - 64.29% | TRUE | TRUE |
| 8 | 69242957 - 69731258 | T - 85.71% | TRUE | TRUE |
| 8 | 69242957 - 69731258 | T - 71.43% | TRUE | FALSE |
| 8 | 69242957 - 69731258 | | TRUE | FALSE |
| 8 | 69242957 - 69731258 | T - 64.29% | TRUE | TRUE |
| 8 | 69242957 - 69731258 | | FALSE | TRUE |
| 22 | 23521891 - 23660224 | | TRUE | FALSE |
| 22 | 23521891 - 23660224 | | TRUE | TRUE |
| 22 | 23521891 - 23660224 | | TRUE | TRUE |
| 22 | 23521891 - 23660224 | F - 36.00% | TRUE | TRUE |
| 11 | 126225540 - 126310752 | | TRUE | TRUE |
| 11 | 126225540 - 126310752 | F - 11.11% | TRUE | TRUE |
| 11 | 126225540 - 126310752 | F - 5.56% | TRUE | TRUE |
| 20 | 59827482 - 60515673 | | TRUE | FALSE |
| 20 | 59827482 - 60515673 | T - 87.50% | TRUE | TRUE |
| 20 | 59827482 - 60515673 | | TRUE | TRUE |
| 2 | 37458774 - 37480546 | | TRUE | TRUE |
| 2 | 37458774 - 37480546 | | TRUE | TRUE |
| 2 | 37458774 - 37480546 | | FALSE | TRUE |
| 2 | 37458774 - 37480546 | T - 55.00% | TRUE | FALSE |
| 2 | 37458774 - 37480546 | F - 15.00% | TRUE | TRUE |
| 2 | 37458774 - 37480546 | T - 55.00% | TRUE | TRUE |
| 2 | 37458774 - 37480546 | | TRUE | TRUE |
| 2 | 37458774 - 37480546 | | FALSE | TRUE |
| 13 | 95090830 - 95131936 | F - 11.11% | TRUE | TRUE |
| 13 | 95090830 - 95131936 | | TRUE | TRUE |
| 13 | 95090830 - 95131936 | F - 33.33% | TRUE | TRUE |
| 13 | 95090830 - 95131936 | T - 66.67% | FALSE | TRUE |
| 13 | 95090830 - 95131936 | | TRUE | TRUE |
| 19 | 37034517 - 37096178 | | TRUE | FALSE |
| 19 | 37034517 - 37096178 | | TRUE | TRUE |
| 19 | 37034517 - 37096178 | | TRUE | TRUE |
| 19 | 37034517 - 37096178 | T - 71.43% | TRUE | TRUE |
| 19 | 37034517 - 37096178 | T - 57.14% | TRUE | TRUE |
| 12 | 6308881 - 6347437 | F - 9.09% | TRUE | FALSE |
| 12 | 6308881 - 6347437 | | TRUE | TRUE |
| 12 | 6308881 - 6347437 | F - 18.18% | FALSE | TRUE |
| 12 | 6308881 - 6347437 | | TRUE | TRUE |
| 12 | 6308881 - 6347437 | F - 9.09% | FALSE | TRUE |
| 12 | 6308881 - 6347437 | F - 9.09% | FALSE | TRUE |
| 12 | 6308881 - 6347437 | F - 9.09% | TRUE | TRUE |
| 12 | 6308881 - 6347437 | F - 9.09% | FALSE | TRUE |
| 12 | 6308881 - 6347437 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 6308881 - 6347437 | | FALSE | TRUE |
| 12 | 6308881 - 6347437 | F - 45.45% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | T - 52.63% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 21.05% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | FALSE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | FALSE | TRUE |
| 17 | 18601311 - 18639432 | T - 52.63% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 42.11% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 36.84% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 47.37% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 10.53% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 36.84% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 26.32% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | T - 52.63% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | T - 57.89% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 36.84% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | | TRUE | TRUE |
| 17 | 18601311 - 18639432 | F - 47.37% | TRUE | TRUE |
| 17 | 18601311 - 18639432 | T - 78.95% | TRUE | TRUE |
| 6 | 134308719 - 134373789 | | TRUE | TRUE |
| 6 | 134308719 - 134373789 | T - 100.00% | TRUE | TRUE |
| 6 | 134308719 - 134373789 | T - 66.67% | TRUE | TRUE |
| 11 | 7260009 - 7490276 | | TRUE | FALSE |
| 11 | 7260009 - 7490276 | F - 14.29% | TRUE | TRUE |
| 11 | 7260009 - 7490276 | | TRUE | TRUE |
| 11 | 7260009 - 7490276 | T - 57.14% | TRUE | TRUE |
| 11 | 7260009 - 7490276 | | FALSE | TRUE |
| 5 | 218356 - 256815 | | TRUE | TRUE |
| 5 | 218356 - 256815 | | TRUE | TRUE |
| 5 | 218356 - 256815 | | TRUE | TRUE |
| 5 | 218356 - 256815 | F - 6.90% | TRUE | TRUE |
| 5 | 218356 - 256815 | F - 3.45% | TRUE | TRUE |
| 5 | 218356 - 256815 | | TRUE | TRUE |
| 5 | 218356 - 256815 | F - 10.34% | TRUE | TRUE |
| 5 | 218356 - 256815 | | FALSE | TRUE |
| 5 | 218356 - 256815 | | TRUE | TRUE |
| 8 | 136469700 - 136668965 | | TRUE | FALSE |
| 8 | 136469700 - 136668965 | | TRUE | FALSE |
| 8 | 136469700 - 136668965 | | TRUE | FALSE |
| 8 | 136469700 - 136668965 | F - 23.53% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | F - 11.76% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | T - 58.82% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | F - 29.41% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | F - 5.88% | FALSE | TRUE |
| 8 | 136469700 - 136668965 | F - 41.18% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | F - 29.41% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | | FALSE | TRUE |
| 8 | 136469700 - 136668965 | F - 5.88% | FALSE | TRUE |
| 8 | 136469700 - 136668965 | T - 58.82% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | F - 5.88% | FALSE | TRUE |
| 8 | 136469700 - 136668965 | F - 5.88% | FALSE | TRUE |
| 8 | 136469700 - 136668965 | F - 5.88% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 8 | 136469700 - 136668965 | | FALSE | TRUE |
| 8 | 136469700 - 136668965 | F - 5.88% | TRUE | TRUE |
| 8 | 136469700 - 136668965 | | TRUE | TRUE |
| 12 | 49208215 - 49222726 | | TRUE | FALSE |
| 12 | 49208215 - 49222726 | F - 25.00% | TRUE | TRUE |
| 12 | 49208215 - 49222726 | | FALSE | TRUE |
| 9 | 117085303 - 117088759 | T - 83.33% | TRUE | TRUE |
| 9 | 117085303 - 117088759 | T - 100.00% | TRUE | FALSE |
| 9 | 117085303 - 117088759 | T - 83.33% | TRUE | TRUE |
| 9 | 117085303 - 117088759 | | TRUE | TRUE |
| 9 | 117085303 - 117088759 | F - 16.67% | TRUE | TRUE |
| 9 | 117085303 - 117088759 | F - 16.67% | FALSE | TRUE |
| 9 | 117085303 - 117088759 | T - 66.67% | TRUE | TRUE |
| 1 | 70671365 - 70718735 | | TRUE | TRUE |
| 1 | 70671365 - 70718735 | | TRUE | TRUE |
| 1 | 70671365 - 70718735 | | TRUE | FALSE |
| 1 | 70671365 - 70718735 | F - 3.57% | TRUE | TRUE |
| 1 | 70671365 - 70718735 | | TRUE | TRUE |
| 1 | 70671365 - 70718735 | | TRUE | TRUE |
| 1 | 70671365 - 70718735 | | FALSE | TRUE |
| 1 | 166882441 - 166944719 | | TRUE | FALSE |
| 1 | 166882441 - 166944719 | T - 88.89% | TRUE | FALSE |
| 1 | 166882441 - 166944719 | | TRUE | TRUE |
| 9 | 117546915 - 117568408 | T - 50.00% | FALSE | TRUE |
| 9 | 117546915 - 117568408 | T - 87.50% | FALSE | TRUE |
| 9 | 117546915 - 117568408 | T - 75.00% | TRUE | TRUE |
| 9 | 117546915 - 117568408 | F - 12.50% | FALSE | TRUE |
| 9 | 117546915 - 117568408 | F - 12.50% | TRUE | TRUE |
| 9 | 117546915 - 117568408 | T - 62.50% | FALSE | TRUE |
| 9 | 117546915 - 117568408 | T - 87.50% | TRUE | TRUE |
| 9 | 117546915 - 117568408 | | FALSE | TRUE |
| 9 | 117546915 - 117568408 | T - 75.00% | TRUE | TRUE |
| 9 | 117546915 - 117568408 | | FALSE | TRUE |
| 9 | 117546915 - 117568408 | | FALSE | TRUE |
| 20 | 33459949 - 33515769 | | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | TRUE | FALSE |
| 20 | 33459949 - 33515769 | | TRUE | FALSE |
| 20 | 33459949 - 33515769 | | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | FALSE | TRUE |
| 20 | 33459949 - 33515769 | F - 5.71% | TRUE | TRUE |
| 20 | 33459949 - 33515769 | F - 34.29% | TRUE | TRUE |
| 20 | 33459949 - 33515769 | T - 51.43% | TRUE | TRUE |
| 20 | 33459949 - 33515769 | F - 45.71% | TRUE | TRUE |
| 20 | 33459949 - 33515769 | F - 2.86% | FALSE | TRUE |
| 20 | 33459949 - 33515769 | F - 48.57% | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | TRUE | TRUE |
| 20 | 33459949 - 33515769 | | FALSE | TRUE |
| 1 | 17066768 - 17299474 | | TRUE | TRUE |
| 1 | 17066768 - 17299474 | F - 15.00% | TRUE | TRUE |
| 1 | 17066768 - 17299474 | | TRUE | TRUE |
| 1 | 17066768 - 17299474 | F - 20.00% | TRUE | TRUE |
| 1 | 17066768 - 17299474 | | TRUE | TRUE |
| 1 | 17066768 - 17299474 | | FALSE | TRUE |
| 1 | 17066768 - 17299474 | T - 55.00% | TRUE | TRUE |
| 1 | 17066768 - 17299474 | | TRUE | TRUE |

| | | | | |
|---|---------------------|------------|-------|-------|
| 4 | 52709166 - 52783003 | | TRUE | FALSE |
| 4 | 52709166 - 52783003 | F - 6.90% | TRUE | TRUE |
| 4 | 52709166 - 52783003 | | TRUE | FALSE |
| 4 | 52709166 - 52783003 | | TRUE | TRUE |
| 4 | 52709166 - 52783003 | T - 68.97% | TRUE | TRUE |
| 4 | 52709166 - 52783003 | F - 3.45% | TRUE | TRUE |
| 4 | 52709166 - 52783003 | T - 51.72% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 4.05% | TRUE | FALSE |
| 6 | 30844198 - 30867933 | F - 39.19% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | T - 63.51% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 4.05% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | FALSE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 2.70% | TRUE | FALSE |
| 6 | 30844198 - 30867933 | F - 8.11% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | FALSE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 5.41% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 4.05% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | FALSE | TRUE |
| 6 | 30844198 - 30867933 | | FALSE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | FALSE | TRUE |
| 6 | 30844198 - 30867933 | F - 2.70% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | FALSE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 40.54% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 37.84% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | T - 62.16% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 2.70% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 6 | 30844198 - 30867933 | F - 2.70% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 2.70% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 4.05% | FALSE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 2.70% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | | FALSE | TRUE |
| 6 | 30844198 - 30867933 | F - 1.35% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 4.05% | TRUE | TRUE |
| 6 | 30844198 - 30867933 | F - 5.41% | FALSE | TRUE |
| 6 | 30844198 - 30867933 | T - 52.70% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | TRUE | FALSE |
| 9 | 129986544 - 130155939 | F - 38.71% | TRUE | FALSE |
| 9 | 129986544 - 130155939 | F - 3.23% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 16.13% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 16.13% | TRUE | FALSE |
| 9 | 129986544 - 130155939 | | TRUE | FALSE |
| 9 | 129986544 - 130155939 | F - 3.23% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 38.71% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 6.45% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 32.26% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 38.71% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 6.45% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 38.71% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 9.68% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 6.45% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 38.71% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 9.68% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 25.81% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 19.35% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 9.68% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 3.23% | FALSE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | T - 58.06% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 9 | 129986544 - 130155939 | F - 32.26% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 38.71% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 22.58% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | FALSE | TRUE |
| 9 | 129986544 - 130155939 | F - 41.94% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 35.48% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | F - 32.26% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | T - 54.84% | TRUE | TRUE |
| 9 | 129986544 - 130155939 | | TRUE | TRUE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | TRUE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | F - 20.83% | TRUE | FALSE |
| 1 | 225083964 - 225586996 | F - 12.50% | TRUE | TRUE |
| 1 | 225083964 - 225586996 | F - 16.67% | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | F - 29.17% | TRUE | TRUE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | TRUE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | FALSE |
| 1 | 225083964 - 225586996 | F - 16.67% | TRUE | FALSE |
| 1 | 225083964 - 225586996 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | FALSE |
| 8 | 42032236 - 42065242 | | TRUE | FALSE |
| 8 | 42032236 - 42065242 | T - 73.91% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | T - 65.22% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | T - 69.57% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | T - 69.57% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | T - 78.26% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | T - 65.22% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | FALSE |
| 8 | 42032236 - 42065242 | T - 65.22% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | TRUE | FALSE |
| 8 | 42032236 - 42065242 | T - 60.87% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 30.43% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | T - 60.87% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | FALSE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | TRUE | TRUE |
| 8 | 42032236 - 42065242 | F - 4.35% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 8 | 42032236 - 42065242 | F - 4.35% | FALSE | TRUE |
| 8 | 42032236 - 42065242 | | FALSE | TRUE |
| 17 | 19551459 - 19580909 | F - 7.69% | TRUE | TRUE |
| 17 | 19551459 - 19580909 | T - 53.85% | TRUE | TRUE |
| 17 | 19551459 - 19580909 | T - 53.85% | TRUE | TRUE |
| 17 | 19551459 - 19580909 | F - 15.38% | TRUE | TRUE |
| 17 | 19551459 - 19580909 | T - 92.31% | FALSE | TRUE |
| 17 | 19551459 - 19580909 | T - 84.62% | TRUE | TRUE |
| 17 | 19551459 - 19580909 | F - 30.77% | TRUE | TRUE |
| 17 | 19551459 - 19580909 | | TRUE | TRUE |
| 17 | 19551459 - 19580909 | | TRUE | TRUE |
| 6_qbl_hap6 | 2529777 - 2533154 | | TRUE | FALSE |
| 6_qbl_hap6 | 2529777 - 2533154 | F - 9.52% | TRUE | TRUE |
| 6_qbl_hap6 | 2529777 - 2533154 | | TRUE | TRUE |
| 6_qbl_hap6 | 2529777 - 2533154 | | TRUE | TRUE |
| 6_qbl_hap6 | 2529777 - 2533154 | F - 14.29% | TRUE | TRUE |
| 6_qbl_hap6 | 2529777 - 2533154 | F - 9.52% | TRUE | TRUE |
| 6_qbl_hap6 | 2529777 - 2533154 | | TRUE | TRUE |
| 6_ssto_hap7 | 2570005 - 2573397 | | TRUE | FALSE |
| 6_ssto_hap7 | 2570005 - 2573397 | F - 10.00% | TRUE | TRUE |
| 6_ssto_hap7 | 2570005 - 2573397 | | TRUE | TRUE |
| 6_ssto_hap7 | 2570005 - 2573397 | F - 15.00% | TRUE | TRUE |
| 6_ssto_hap7 | 2570005 - 2573397 | F - 10.00% | TRUE | TRUE |
| 6_ssto_hap7 | 2570005 - 2573397 | | TRUE | TRUE |
| 10 | 104629210 - 104661656 | | TRUE | TRUE |
| 10 | 104629210 - 104661656 | T - 50.00% | TRUE | TRUE |
| 10 | 104629210 - 104661656 | T - 50.00% | TRUE | TRUE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | F - 29.41% | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | TRUE | FALSE |
| 16 | 70841281 - 71264625 | | FALSE | TRUE |
| 16 | 70841281 - 71264625 | | FALSE | TRUE |
| 16 | 70841281 - 71264625 | | FALSE | TRUE |
| 17 | 39182278 - 39183480 | | TRUE | TRUE |
| 17 | 39182278 - 39183480 | T - 100.00% | TRUE | TRUE |
| 17 | 39182278 - 39183480 | T - 83.33% | TRUE | TRUE |
| 17 | 39182278 - 39183480 | F - 33.33% | TRUE | TRUE |
| 17 | 39182278 - 39183480 | T - 83.33% | FALSE | TRUE |
| 17 | 39182278 - 39183480 | T - 83.33% | FALSE | TRUE |
| 17 | 39182278 - 39183480 | T - 50.00% | FALSE | TRUE |
| 13 | 24144509 - 24250244 | | TRUE | FALSE |
| 13 | 24144509 - 24250244 | T - 50.00% | TRUE | TRUE |
| 13 | 24144509 - 24250244 | F - 20.00% | TRUE | TRUE |
| 13 | 24144509 - 24250244 | | TRUE | TRUE |
| 13 | 24144509 - 24250244 | F - 10.00% | FALSE | TRUE |
| 3 | 180707558 - 181508734 | F - 42.86% | TRUE | FALSE |
| 3 | 180707558 - 181508734 | | TRUE | TRUE |
| 3 | 180707558 - 181508734 | | TRUE | FALSE |
| 3 | 180707558 - 181508734 | F - 38.10% | TRUE | TRUE |
| 2 | 170550964 - 170558218 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 170550964 - 170558218 | | TRUE | TRUE |
| 2 | 170550964 - 170558218 | T - 66.67% | TRUE | TRUE |
| 2 | 170550964 - 170558218 | T - 66.67% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | F - 11.11% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | F - 22.22% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | F - 33.33% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | F - 11.11% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | F - 33.33% | FALSE | TRUE |
| 22 | 39473010 - 39483748 | F - 11.11% | FALSE | TRUE |
| 22 | 39473010 - 39483748 | F - 11.11% | FALSE | TRUE |
| 22 | 39473010 - 39483748 | F - 44.44% | FALSE | TRUE |
| 22 | 39473010 - 39483748 | F - 33.33% | FALSE | TRUE |
| 22 | 39473010 - 39483748 | | FALSE | TRUE |
| 22 | 39473010 - 39483748 | F - 22.22% | FALSE | TRUE |
| 22 | 39473010 - 39483748 | F - 33.33% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | T - 88.89% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | | TRUE | TRUE |
| 22 | 39473010 - 39483748 | F - 33.33% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | T - 77.78% | TRUE | TRUE |
| 22 | 39473010 - 39483748 | | TRUE | TRUE |
| 15 | 81601394 - 81616524 | F - 42.86% | TRUE | TRUE |
| 15 | 81601394 - 81616524 | F - 42.86% | FALSE | TRUE |
| 15 | 81601394 - 81616524 | F - 28.57% | TRUE | TRUE |
| 15 | 81601394 - 81616524 | F - 28.57% | TRUE | TRUE |
| 15 | 81601394 - 81616524 | F - 28.57% | TRUE | TRUE |
| 15 | 81601394 - 81616524 | T - 85.71% | TRUE | TRUE |
| 15 | 81601394 - 81616524 | F - 28.57% | TRUE | TRUE |
| 15 | 81601394 - 81616524 | F - 14.29% | FALSE | TRUE |
| 15 | 81601394 - 81616524 | | TRUE | TRUE |
| 21 | 36160098 - 37357047 | F - 3.03% | TRUE | TRUE |
| 21 | 36160098 - 37357047 | F - 36.36% | TRUE | TRUE |
| 21 | 36160098 - 37357047 | | TRUE | TRUE |
| 21 | 36160098 - 37357047 | | TRUE | TRUE |
| 21 | 36160098 - 37357047 | | TRUE | TRUE |
| 21 | 36160098 - 37357047 | T - 51.52% | TRUE | TRUE |
| 21 | 36160098 - 37357047 | F - 27.27% | TRUE | TRUE |
| 21 | 36160098 - 37357047 | | TRUE | TRUE |
| 21 | 36160098 - 37357047 | | TRUE | FALSE |
| 21 | 36160098 - 37357047 | | TRUE | TRUE |
| 2 | 12856998 - 12882860 | T - 71.43% | TRUE | TRUE |
| 2 | 12856998 - 12882860 | | FALSE | TRUE |
| 2 | 12856998 - 12882860 | | TRUE | TRUE |
| 2 | 12856998 - 12882860 | F - 28.57% | TRUE | TRUE |
| 2 | 12856998 - 12882860 | F - 28.57% | TRUE | TRUE |
| 2 | 95813075 - 95831158 | | TRUE | FALSE |
| 2 | 95813075 - 95831158 | F - 22.22% | TRUE | TRUE |
| 2 | 95813075 - 95831158 | F - 11.11% | FALSE | TRUE |
| 18 | 21269562 - 21535030 | | TRUE | FALSE |
| 18 | 21269562 - 21535030 | | TRUE | TRUE |
| 18 | 21269562 - 21535030 | | TRUE | FALSE |
| 18 | 21269562 - 21535030 | | TRUE | FALSE |
| 18 | 21269562 - 21535030 | | TRUE | TRUE |
| 18 | 21269562 - 21535030 | | TRUE | TRUE |
| 18 | 21269562 - 21535030 | | TRUE | FALSE |
| 18 | 21269562 - 21535030 | | TRUE | FALSE |
| 18 | 21269562 - 21535030 | | TRUE | TRUE |
| 18 | 21269562 - 21535030 | | FALSE | TRUE |
| 18 | 21269562 - 21535030 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 18 | 21269562 - 21535030 | T - 50.00% | FALSE | TRUE |
| 18 | 21269562 - 21535030 | T - 66.67% | TRUE | TRUE |
| 18 | 21269562 - 21535030 | | FALSE | TRUE |
| 5 | 81574515 - 81682796 | F - 11.11% | TRUE | FALSE |
| 5 | 81574515 - 81682796 | F - 22.22% | TRUE | TRUE |
| 5 | 81574515 - 81682796 | | TRUE | FALSE |
| 5 | 81574515 - 81682796 | F - 11.11% | TRUE | TRUE |
| 5 | 81574515 - 81682796 | | FALSE | TRUE |
| 5 | 81574515 - 81682796 | | TRUE | TRUE |
| 5 | 81574515 - 81682796 | F - 22.22% | TRUE | TRUE |
| 5 | 81574515 - 81682796 | | FALSE | TRUE |
| 5 | 81574515 - 81682796 | F - 11.11% | TRUE | TRUE |
| 5 | 81574515 - 81682796 | F - 11.11% | TRUE | TRUE |
| 5 | 81574515 - 81682796 | F - 44.44% | TRUE | TRUE |
| 5 | 81574515 - 81682796 | | FALSE | TRUE |
| 2 | 191273081 - 191373931 | | TRUE | FALSE |
| 2 | 191273081 - 191373931 | T - 50.00% | FALSE | TRUE |
| 2 | 191273081 - 191373931 | F - 7.14% | TRUE | TRUE |
| 2 | 191273081 - 191373931 | F - 21.43% | TRUE | TRUE |
| 2 | 191273081 - 191373931 | F - 7.14% | TRUE | TRUE |
| 2 | 191273081 - 191373931 | F - 14.29% | TRUE | TRUE |
| 2 | 191273081 - 191373931 | F - 28.57% | TRUE | TRUE |
| 2 | 191273081 - 191373931 | | FALSE | TRUE |
| 2 | 191273081 - 191373931 | | TRUE | TRUE |
| 6 | 116440085 - 116479910 | | TRUE | FALSE |
| 6 | 116440085 - 116479910 | | TRUE | FALSE |
| 6 | 116440085 - 116479910 | F - 33.33% | TRUE | FALSE |
| 6 | 116440085 - 116479910 | T - 50.00% | TRUE | TRUE |
| 6 | 116440085 - 116479910 | | TRUE | FALSE |
| 6 | 116440085 - 116479910 | T - 83.33% | TRUE | TRUE |
| 6 | 116440085 - 116479910 | F - 16.67% | TRUE | FALSE |
| 3 | 127407909 - 127558019 | | TRUE | FALSE |
| 3 | 127407909 - 127558019 | | FALSE | TRUE |
| 3 | 127407909 - 127558019 | F - 4.55% | TRUE | TRUE |
| 3 | 127407909 - 127558019 | F - 4.55% | TRUE | TRUE |
| 3 | 127407909 - 127558019 | | TRUE | TRUE |
| 3 | 127407909 - 127558019 | F - 9.09% | TRUE | TRUE |
| 3 | 127407909 - 127558019 | F - 22.73% | FALSE | TRUE |
| 3 | 127407909 - 127558019 | F - 4.55% | FALSE | TRUE |
| 3 | 127407909 - 127558019 | F - 22.73% | TRUE | TRUE |
| 3 | 127407909 - 127558019 | | TRUE | TRUE |
| X | 117031776 - 117251303 | F - 21.05% | TRUE | FALSE |
| X | 117031776 - 117251303 | F - 10.53% | FALSE | TRUE |
| X | 117031776 - 117251303 | F - 21.05% | FALSE | TRUE |
| X | 117031776 - 117251303 | F - 5.26% | FALSE | TRUE |
| X | 117031776 - 117251303 | | TRUE | TRUE |
| X | 117031776 - 117251303 | | TRUE | TRUE |
| X | 117031776 - 117251303 | F - 21.05% | FALSE | TRUE |
| X | 117031776 - 117251303 | T - 89.47% | FALSE | TRUE |
| X | 117031776 - 117251303 | F - 10.53% | FALSE | TRUE |
| X | 117031776 - 117251303 | | FALSE | TRUE |
| X | 117031776 - 117251303 | T - 89.47% | TRUE | TRUE |
| X | 117031776 - 117251303 | | FALSE | TRUE |
| 2 | 113493930 - 113522254 | | TRUE | TRUE |
| 2 | 113493930 - 113522254 | | TRUE | FALSE |
| 2 | 113493930 - 113522254 | T - 83.33% | TRUE | TRUE |
| 2 | 113493930 - 113522254 | | FALSE | TRUE |
| 11 | 69924408 - 70035652 | | TRUE | FALSE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 11 | 69924408 - 70035652 | | TRUE | FALSE |
| 11 | 69924408 - 70035652 | | TRUE | FALSE |
| 11 | 69924408 - 70035652 | | TRUE | FALSE |
| 11 | 69924408 - 70035652 | | TRUE | FALSE |
| 11 | 69924408 - 70035652 | T - 78.57% | TRUE | FALSE |
| 11 | 69924408 - 70035652 | T - 92.86% | TRUE | FALSE |
| 11 | 69924408 - 70035652 | | TRUE | FALSE |
| 11 | 69924408 - 70035652 | F - 7.14% | TRUE | TRUE |
| 11 | 69924408 - 70035652 | F - 28.57% | TRUE | TRUE |
| 11 | 69924408 - 70035652 | | FALSE | TRUE |
| 11 | 69924408 - 70035652 | | FALSE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | FALSE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | FALSE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | FALSE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | FALSE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 100.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 60.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | TRUE | TRUE |
| 11 | 13983914 - 14289679 | T - 80.00% | TRUE | TRUE |
| 11 | 13983914 - 14289679 | | FALSE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | | TRUE | FALSE |
| 6_dbb_hap3 | 2532134 - 2535511 | F - 9.52% | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | F - 14.29% | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | F - 9.52% | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | | TRUE | TRUE |
| 6_dbb_hap3 | 2532134 - 2535511 | | TRUE | TRUE |
| 3 | 20202085 - 20227784 | | TRUE | TRUE |
| 3 | 20202085 - 20227784 | | TRUE | FALSE |
| 3 | 20202085 - 20227784 | F - 25.71% | TRUE | TRUE |
| 3 | 20202085 - 20227784 | | TRUE | TRUE |
| 3 | 20202085 - 20227784 | | TRUE | TRUE |
| 3 | 20202085 - 20227784 | | TRUE | TRUE |
| 3 | 20202085 - 20227784 | T - 88.57% | FALSE | TRUE |
| 1 | 113933371 - 114228545 | | TRUE | FALSE |
| 1 | 113933371 - 114228545 | | TRUE | FALSE |
| 1 | 113933371 - 114228545 | F - 7.14% | TRUE | TRUE |
| 1 | 113933371 - 114228545 | | TRUE | TRUE |
| 1 | 113933371 - 114228545 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 113933371 - 114228545 | | TRUE | TRUE |
| 2 | 53759810 - 54014747 | | TRUE | FALSE |
| 2 | 53759810 - 54014747 | F - 4.76% | TRUE | FALSE |
| 2 | 53759810 - 54014747 | F - 9.52% | TRUE | TRUE |
| 2 | 53759810 - 54014747 | | TRUE | TRUE |
| 3 | 74311719 - 74570343 | | TRUE | TRUE |
| 3 | 74311719 - 74570343 | | TRUE | TRUE |
| 3 | 74311719 - 74570343 | T - 75.00% | TRUE | TRUE |
| 3 | 74311719 - 74570343 | T - 75.00% | FALSE | TRUE |
| 3 | 74311719 - 74570343 | T - 100.00% | TRUE | TRUE |
| 3 | 74311719 - 74570343 | | FALSE | TRUE |
| 3 | 74311719 - 74570343 | | FALSE | TRUE |
| 3 | 74311719 - 74570343 | | FALSE | TRUE |
| 3 | 74311719 - 74570343 | T - 100.00% | TRUE | TRUE |
| 3 | 74311719 - 74570343 | | FALSE | TRUE |
| 3 | 74311719 - 74570343 | | FALSE | TRUE |
| 8 | 18384811 - 18942240 | | TRUE | TRUE |
| 8 | 18384811 - 18942240 | F - 4.00% | TRUE | TRUE |
| 8 | 18384811 - 18942240 | F - 8.00% | TRUE | TRUE |
| 8 | 18384811 - 18942240 | F - 16.00% | TRUE | TRUE |
| 8 | 18384811 - 18942240 | F - 4.00% | TRUE | TRUE |
| 8 | 18384811 - 18942240 | | TRUE | TRUE |
| 8 | 18384811 - 18942240 | | FALSE | TRUE |
| 8 | 124332090 - 124428590 | | TRUE | TRUE |
| 8 | 124332090 - 124428590 | | TRUE | TRUE |
| 8 | 124332090 - 124428590 | | TRUE | FALSE |
| 8 | 124332090 - 124428590 | | TRUE | TRUE |
| 8 | 124332090 - 124428590 | | TRUE | TRUE |
| 8 | 124332090 - 124428590 | T - 72.73% | TRUE | TRUE |
| 8 | 124332090 - 124428590 | | TRUE | TRUE |
| 8 | 124332090 - 124428590 | F - 9.09% | FALSE | TRUE |
| 8 | 124332090 - 124428590 | F - 18.18% | TRUE | TRUE |
| 8 | 124332090 - 124428590 | | FALSE | TRUE |
| 17 | 72427052 - 72446720 | | TRUE | FALSE |
| 17 | 72427052 - 72446720 | F - 7.69% | TRUE | TRUE |
| 5 | 133934233 - 133984961 | | TRUE | FALSE |
| 5 | 133934233 - 133984961 | F - 13.33% | TRUE | TRUE |
| 5 | 133934233 - 133984961 | F - 20.00% | TRUE | TRUE |
| 5 | 133934233 - 133984961 | F - 6.67% | FALSE | TRUE |
| 5 | 133934233 - 133984961 | F - 13.33% | TRUE | TRUE |
| 5 | 133934233 - 133984961 | F - 20.00% | TRUE | TRUE |
| 19 | 4324040 - 4342783 | | TRUE | FALSE |
| 19 | 4324040 - 4342783 | T - 90.00% | TRUE | TRUE |
| 19 | 4324040 - 4342783 | T - 100.00% | FALSE | TRUE |
| 19 | 4324040 - 4342783 | | FALSE | TRUE |
| 14 | 90863327 - 90874619 | | TRUE | FALSE |
| 14 | 90863327 - 90874619 | F - 45.45% | FALSE | TRUE |
| 21 | 35445524 - 35732332 | | TRUE | FALSE |
| 21 | 35445524 - 35732332 | F - 6.25% | FALSE | TRUE |
| 21 | 35445524 - 35732332 | | FALSE | TRUE |
| 21 | 35445524 - 35732332 | | FALSE | TRUE |
| 21 | 35445524 - 35732332 | F - 6.25% | TRUE | TRUE |
| 21 | 35445524 - 35732332 | | TRUE | TRUE |
| 21 | 35445524 - 35732332 | F - 12.50% | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 9 | 127704888 - 127905838 | T - 75.00% | TRUE | TRUE |
| 9 | 127704888 - 127905838 | F - 8.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 9 | 127704888 - 127905838 | T - 66.67% | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 9 | 127704888 - 127905838 | F - 8.33% | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 9 | 127704888 - 127905838 | | TRUE | TRUE |
| 12 | 5671817 - 6055398 | | TRUE | FALSE |
| 12 | 5671817 - 6055398 | | TRUE | FALSE |
| 12 | 5671817 - 6055398 | | TRUE | FALSE |
| 12 | 5671817 - 6055398 | T - 71.43% | TRUE | FALSE |
| 12 | 5671817 - 6055398 | T - 57.14% | TRUE | FALSE |
| 12 | 5671817 - 6055398 | T - 57.14% | TRUE | FALSE |
| 12 | 5671817 - 6055398 | T - 57.14% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | | TRUE | TRUE |
| 12 | 5671817 - 6055398 | F - 14.29% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | F - 28.57% | FALSE | TRUE |
| 12 | 5671817 - 6055398 | T - 57.14% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | T - 71.43% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | T - 71.43% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | | FALSE | TRUE |
| 12 | 5671817 - 6055398 | T - 57.14% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | T - 71.43% | TRUE | TRUE |
| 12 | 5671817 - 6055398 | | TRUE | TRUE |
| 22 | 39966758 - 40085742 | | TRUE | TRUE |
| 22 | 39966758 - 40085742 | | TRUE | FALSE |
| 22 | 39966758 - 40085742 | | TRUE | FALSE |
| 22 | 39966758 - 40085742 | | TRUE | FALSE |
| 22 | 39966758 - 40085742 | | TRUE | FALSE |
| 22 | 39966758 - 40085742 | | TRUE | FALSE |
| 22 | 39966758 - 40085742 | T - 90.91% | TRUE | TRUE |
| 22 | 39966758 - 40085742 | | TRUE | TRUE |
| 22 | 39966758 - 40085742 | | TRUE | TRUE |
| 22 | 39966758 - 40085742 | | TRUE | TRUE |
| 22 | 39966758 - 40085742 | T - 90.91% | TRUE | TRUE |
| 22 | 39966758 - 40085742 | | TRUE | TRUE |
| 14 | 50159823 - 50219870 | T - 60.00% | TRUE | FALSE |
| 14 | 50159823 - 50219870 | | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | TRUE | FALSE |
| 2 | 238536219 - 238690290 | | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | TRUE | FALSE |
| 2 | 238536219 - 238690290 | | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | TRUE | FALSE |
| 2 | 238536219 - 238690290 | F - 43.48% | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | TRUE | TRUE |
| 2 | 238536219 - 238690290 | F - 4.35% | FALSE | TRUE |
| 2 | 238536219 - 238690290 | F - 8.70% | TRUE | TRUE |
| 2 | 238536219 - 238690290 | | FALSE | TRUE |
| 5 | 175487692 - 175559261 | | TRUE | FALSE |
| 5 | 175487692 - 175559261 | | TRUE | FALSE |
| 5 | 175487692 - 175559261 | | TRUE | TRUE |
| 5 | 175487692 - 175559261 | | TRUE | TRUE |
| 5 | 175487692 - 175559261 | F - 32.14% | TRUE | TRUE |
| 5 | 175487692 - 175559261 | F - 7.14% | FALSE | TRUE |
| 8 | 66626569 - 66754557 | | TRUE | FALSE |
| 8 | 66626569 - 66754557 | | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 8 | 66626569 - 66754557 | | TRUE | TRUE |
| 8 | 66626569 - 66754557 | F - 8.33% | TRUE | TRUE |
| 8 | 66626569 - 66754557 | | TRUE | TRUE |
| 8 | 66626569 - 66754557 | | FALSE | TRUE |
| 8 | 66626569 - 66754557 | T - 75.00% | FALSE | TRUE |
| 8 | 66626569 - 66754557 | F - 8.33% | TRUE | TRUE |
| 12 | 96051583 - 96184930 | T - 50.00% | TRUE | TRUE |
| 12 | 96051583 - 96184930 | F - 12.50% | TRUE | TRUE |
| 12 | 96051583 - 96184930 | | TRUE | TRUE |
| 12 | 96051583 - 96184930 | | TRUE | TRUE |
| 12 | 96051583 - 96184930 | | FALSE | TRUE |
| 12 | 96051583 - 96184930 | | TRUE | TRUE |
| 12 | 96051583 - 96184930 | F - 37.50% | TRUE | TRUE |
| 12 | 96051583 - 96184930 | | FALSE | TRUE |
| 12 | 96051583 - 96184930 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 12.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 12.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 48.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 48.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 28.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 16.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | T - 60.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 4.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 4.00% | FALSE | TRUE |
| 1 | 66999066 - 67213982 | F - 4.00% | FALSE | TRUE |
| 1 | 66999066 - 67213982 | | FALSE | TRUE |
| 1 | 66999066 - 67213982 | | FALSE | TRUE |
| 1 | 66999066 - 67213982 | | FALSE | TRUE |
| 1 | 66999066 - 67213982 | F - 12.00% | FALSE | TRUE |
| 1 | 66999066 - 67213982 | F - 4.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | FALSE | TRUE |
| 1 | 66999066 - 67213982 | T - 60.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 8.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | T - 60.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | T - 52.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | FALSE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | F - 4.00% | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 1 | 66999066 - 67213982 | | FALSE | TRUE |
| 1 | 66999066 - 67213982 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | T - 59.09% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | T - 50.00% | TRUE | FALSE |
| 7 | 30791751 - 30965131 | F - 27.27% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | FALSE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | T - 59.09% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 22.73% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 36.36% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|------|
| 7 | 30791751 - 30965131 | F - 36.36% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 36.36% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 4.55% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 9.09% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | FALSE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 22.73% | FALSE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 36.36% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 4.55% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 4.55% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 27.27% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 27.27% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 22.73% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 9.09% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | FALSE | TRUE |
| 7 | 30791751 - 30965131 | F - 27.27% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 18.18% | TRUE | TRUE |
| 7 | 30791751 - 30965131 | F - 9.09% | FALSE | TRUE |
| 7 | 30791751 - 30965131 | | FALSE | TRUE |
| 7 | 30791751 - 30965131 | | FALSE | TRUE |
| Y | 22917954 - 22942918 | T - 100.00% | TRUE | TRUE |
| Y | 22917954 - 22942918 | | TRUE | TRUE |
| Y | 22917954 - 22942918 | T - 100.00% | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | F - 31.03% | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | TRUE | TRUE |
| 11 | 35160417 - 35253949 | T - 51.72% | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | FALSE | TRUE |
| 11 | 35160417 - 35253949 | | FALSE | TRUE |
| 11 | 35160417 - 35253949 | T - 58.62% | TRUE | TRUE |
| 11 | 35160417 - 35253949 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 8 | 59717977 - 60031767 | T - 66.67% | TRUE | TRUE |
| 8 | 59717977 - 60031767 | | TRUE | TRUE |
| 8 | 59717977 - 60031767 | T - 100.00% | TRUE | TRUE |
| 8 | 59717977 - 60031767 | | FALSE | TRUE |
| 5 | 177433406 - 177482560 | | TRUE | FALSE |
| 5 | 177433406 - 177482560 | | TRUE | FALSE |
| 5 | 177433406 - 177482560 | F - 5.26% | FALSE | TRUE |
| 5 | 177433406 - 177482560 | | TRUE | TRUE |
| 4 | 153701089 - 153839615 | | TRUE | FALSE |
| 4 | 153701089 - 153839615 | | TRUE | FALSE |
| 4 | 153701089 - 153839615 | | TRUE | TRUE |
| 4 | 153701089 - 153839615 | F - 10.00% | TRUE | TRUE |
| 4 | 153701089 - 153839615 | | TRUE | TRUE |
| 4 | 153701089 - 153839615 | F - 10.00% | TRUE | TRUE |
| 4 | 153701089 - 153839615 | F - 40.00% | TRUE | TRUE |
| 17 | 1665253 - 1680859 | | TRUE | FALSE |
| 17 | 1665253 - 1680859 | T - 100.00% | TRUE | TRUE |
| 17 | 1665253 - 1680859 | | TRUE | TRUE |
| 17 | 1665253 - 1680859 | | TRUE | FALSE |
| 17 | 1665253 - 1680859 | T - 100.00% | TRUE | TRUE |
| 17 | 1665253 - 1680859 | | TRUE | TRUE |
| 17 | 1665253 - 1680859 | T - 100.00% | TRUE | TRUE |
| 17 | 1665253 - 1680859 | T - 50.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 80.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 70.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 60.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 80.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | FALSE |
| 18 | 33877702 - 34360018 | T - 60.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 60.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 70.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 60.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 60.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 60.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 80.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | F - 10.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | F - 10.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 70.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | F - 10.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 70.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | T - 80.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | F - 10.00% | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | F - 10.00% | FALSE | TRUE |
| 18 | 33877702 - 34360018 | | TRUE | TRUE |
| 18 | 33877702 - 34360018 | | FALSE | TRUE |
| 18 | 33877702 - 34360018 | | FALSE | TRUE |
| 12 | 23682440 - 24715524 | | TRUE | FALSE |
| 12 | 23682440 - 24715524 | | TRUE | TRUE |
| 12 | 23682440 - 24715524 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 23682440 - 24715524 | | TRUE | TRUE |
| 12 | 23682440 - 24715524 | | TRUE | TRUE |
| 12 | 23682440 - 24715524 | | TRUE | TRUE |
| 12 | 23682440 - 24715524 | F - 7.69% | TRUE | FALSE |
| 12 | 23682440 - 24715524 | | TRUE | FALSE |
| 12 | 23682440 - 24715524 | F - 15.38% | TRUE | TRUE |
| 12 | 23682440 - 24715524 | F - 23.08% | TRUE | TRUE |
| 12 | 23682440 - 24715524 | F - 23.08% | TRUE | TRUE |
| 1 | 183441506 - 183567381 | | TRUE | FALSE |
| 1 | 183441506 - 183567381 | | TRUE | TRUE |
| 1 | 183441506 - 183567381 | | TRUE | TRUE |
| 1 | 183441506 - 183567381 | T - 60.87% | TRUE | TRUE |
| 13 | 36742345 - 36788752 | | TRUE | FALSE |
| 13 | 36742345 - 36788752 | T - 100.00% | TRUE | FALSE |
| 5 | 96096514 - 96149848 | | TRUE | TRUE |
| 5 | 96096514 - 96149848 | F - 13.33% | TRUE | TRUE |
| 5 | 96096514 - 96149848 | F - 6.67% | FALSE | TRUE |
| 5 | 96096514 - 96149848 | F - 6.67% | FALSE | TRUE |
| 5 | 96096514 - 96149848 | F - 20.00% | TRUE | TRUE |
| 5 | 96096514 - 96149848 | F - 6.67% | TRUE | TRUE |
| 5 | 96096514 - 96149848 | F - 6.67% | TRUE | TRUE |
| 5 | 96096514 - 96149848 | F - 6.67% | FALSE | TRUE |
| 5 | 96096514 - 96149848 | F - 20.00% | FALSE | TRUE |
| 5 | 96096514 - 96149848 | T - 53.33% | TRUE | TRUE |
| 5 | 96096514 - 96149848 | | TRUE | TRUE |
| 5 | 96096514 - 96149848 | | FALSE | TRUE |
| 5 | 96096514 - 96149848 | | TRUE | TRUE |
| 5 | 96096514 - 96149848 | | FALSE | TRUE |
| 5 | 96096514 - 96149848 | | TRUE | TRUE |
| 14 | 105190523 - 105213647 | | TRUE | TRUE |
| 14 | 105190523 - 105213647 | F - 12.50% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | F - 37.50% | FALSE | TRUE |
| 14 | 105190523 - 105213647 | F - 25.00% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | F - 12.50% | FALSE | TRUE |
| 14 | 105190523 - 105213647 | | TRUE | TRUE |
| 14 | 105190523 - 105213647 | F - 12.50% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | F - 25.00% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | F - 12.50% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | T - 62.50% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | | FALSE | TRUE |
| 14 | 105190523 - 105213647 | T - 75.00% | TRUE | TRUE |
| 14 | 105190523 - 105213647 | | FALSE | TRUE |
| 14 | 105190523 - 105213647 | | FALSE | TRUE |
| 18 | 42747973 - 43263072 | | TRUE | FALSE |
| 18 | 42747973 - 43263072 | | TRUE | TRUE |
| 18 | 42747973 - 43263072 | T - 83.33% | TRUE | TRUE |
| 18 | 42747973 - 43263072 | T - 100.00% | TRUE | TRUE |
| 18 | 42747973 - 43263072 | T - 100.00% | TRUE | TRUE |
| 18 | 42747973 - 43263072 | F - 33.33% | TRUE | TRUE |
| 18 | 42747973 - 43263072 | | TRUE | TRUE |
| 18 | 42747973 - 43263072 | | FALSE | TRUE |
| 18 | 42747973 - 43263072 | T - 66.67% | TRUE | TRUE |
| 18 | 42747973 - 43263072 | F - 33.33% | TRUE | TRUE |
| 19 | 38924340 - 39078204 | | TRUE | FALSE |
| 19 | 38924340 - 39078204 | | TRUE | FALSE |
| 19 | 38924340 - 39078204 | | TRUE | FALSE |
| 19 | 38924340 - 39078204 | T - 66.67% | TRUE | TRUE |
| 19 | 38924340 - 39078204 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 20 | 26035250 - 26073683 | | TRUE | FALSE |
| 20 | 26035250 - 26073683 | | TRUE | TRUE |
| 20 | 26035250 - 26073683 | | TRUE | FALSE |
| 20 | 26035250 - 26073683 | | TRUE | FALSE |
| 20 | 26035250 - 26073683 | F - 25.00% | TRUE | FALSE |
| 20 | 26035250 - 26073683 | | FALSE | TRUE |
| 20 | 26035250 - 26073683 | | FALSE | TRUE |
| 20 | 26035250 - 26073683 | T - 75.00% | TRUE | TRUE |
| 20 | 26035250 - 26073683 | F - 12.50% | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | FALSE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | FALSE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | FALSE |
| 8 | 133879203 - 134147147 | F - 23.33% | TRUE | TRUE |
| 8 | 133879203 - 134147147 | F - 33.33% | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | | TRUE | TRUE |
| 8 | 133879203 - 134147147 | F - 30.00% | TRUE | TRUE |
| 8 | 133879203 - 134147147 | F - 30.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | FALSE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | FALSE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | FALSE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 19 | 10070237 - 10121147 | T - 100.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | FALSE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | FALSE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | FALSE | TRUE |
| 19 | 10070237 - 10121147 | | FALSE | TRUE |
| 19 | 10070237 - 10121147 | | FALSE | TRUE |
| 19 | 10070237 - 10121147 | | FALSE | TRUE |
| 19 | 10070237 - 10121147 | T - 50.00% | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 19 | 10070237 - 10121147 | | FALSE | TRUE |
| 19 | 10070237 - 10121147 | | TRUE | TRUE |
| 17 | 79008947 - 79091232 | | TRUE | FALSE |
| 17 | 79008947 - 79091232 | F - 20.00% | TRUE | TRUE |
| 17 | 79008947 - 79091232 | F - 40.00% | TRUE | TRUE |
| 17 | 79008947 - 79091232 | | TRUE | TRUE |
| 17 | 79008947 - 79091232 | | TRUE | TRUE |
| 1 | 151170425 - 151222012 | | TRUE | TRUE |
| 1 | 151170425 - 151222012 | | TRUE | TRUE |
| 1 | 151170425 - 151222012 | | TRUE | TRUE |
| 1 | 151170425 - 151222012 | | TRUE | FALSE |
| 1 | 151170425 - 151222012 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 151170425 - 151222012 | F - 4.17% | TRUE | TRUE |
| 4 | 114821440 - 114900883 | | TRUE | FALSE |
| 4 | 114821440 - 114900883 | F - 30.00% | TRUE | TRUE |
| 4 | 114821440 - 114900883 | | FALSE | TRUE |
| 4 | 114821440 - 114900883 | T - 50.00% | TRUE | TRUE |
| 4 | 114821440 - 114900883 | F - 20.00% | FALSE | TRUE |
| 4 | 114821440 - 114900883 | | TRUE | TRUE |
| 1 | 155232659 - 155248282 | F - 7.14% | TRUE | TRUE |
| 1 | 155232659 - 155248282 | F - 7.14% | TRUE | TRUE |
| 1 | 155232659 - 155248282 | F - 7.14% | TRUE | TRUE |
| 1 | 155232659 - 155248282 | | TRUE | TRUE |
| 1 | 155232659 - 155248282 | F - 7.14% | TRUE | TRUE |
| 1 | 155232659 - 155248282 | F - 14.29% | TRUE | TRUE |
| 1 | 155232659 - 155248282 | F - 7.14% | TRUE | TRUE |
| 1 | 155232659 - 155248282 | | TRUE | TRUE |
| X | 5758678 - 6146904 | | TRUE | TRUE |
| X | 5758678 - 6146904 | | TRUE | TRUE |
| X | 5758678 - 6146904 | F - 13.33% | TRUE | TRUE |
| X | 5758678 - 6146904 | F - 33.33% | TRUE | TRUE |
| X | 5758678 - 6146904 | F - 13.33% | TRUE | TRUE |
| X | 5758678 - 6146904 | F - 6.67% | FALSE | TRUE |
| X | 5758678 - 6146904 | | FALSE | TRUE |
| X | 5758678 - 6146904 | | TRUE | TRUE |
| X | 5758678 - 6146904 | | TRUE | TRUE |
| X | 5758678 - 6146904 | F - 13.33% | FALSE | TRUE |
| X | 5758678 - 6146904 | T - 73.33% | FALSE | TRUE |
| X | 5758678 - 6146904 | T - 93.33% | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | TRUE | FALSE |
| 8 | 103264501 - 103425069 | | TRUE | TRUE |
| 8 | 103264501 - 103425069 | F - 5.56% | TRUE | TRUE |
| 8 | 103264501 - 103425069 | F - 5.56% | TRUE | TRUE |
| 8 | 103264501 - 103425069 | F - 11.11% | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | TRUE | TRUE |
| 8 | 103264501 - 103425069 | F - 5.56% | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | TRUE | TRUE |
| 8 | 103264501 - 103425069 | | FALSE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | FALSE |
| 20 | 45523263 - 45817492 | T - 69.23% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | T - 61.54% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | F - 38.46% | TRUE | FALSE |
| 20 | 45523263 - 45817492 | | TRUE | FALSE |
| 20 | 45523263 - 45817492 | T - 53.85% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | T - 69.23% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | F - 46.15% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | F - 46.15% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 20 | 45523263 - 45817492 | T - 53.85% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 20 | 45523263 - 45817492 | F - 7.69% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | F - 30.77% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | F - 15.38% | FALSE | TRUE |
| 20 | 45523263 - 45817492 | F - 15.38% | TRUE | TRUE |
| 20 | 45523263 - 45817492 | | TRUE | TRUE |
| 4 | 55095264 - 55164414 | | TRUE | TRUE |
| 4 | 55095264 - 55164414 | | TRUE | TRUE |
| 4 | 55095264 - 55164414 | | TRUE | TRUE |
| 4 | 55095264 - 55164414 | | TRUE | TRUE |
| 4 | 55095264 - 55164414 | F - 12.50% | TRUE | TRUE |
| 4 | 55095264 - 55164414 | | FALSE | TRUE |
| 4 | 55095264 - 55164414 | F - 6.25% | FALSE | TRUE |
| 4 | 55095264 - 55164414 | F - 6.25% | TRUE | TRUE |
| 4 | 55095264 - 55164414 | F - 6.25% | TRUE | TRUE |
| 4 | 55095264 - 55164414 | | TRUE | TRUE |
| 15 | 89787180 - 89860492 | | TRUE | TRUE |
| 15 | 89787180 - 89860492 | | TRUE | TRUE |
| 15 | 89787180 - 89860492 | F - 36.36% | TRUE | TRUE |
| 15 | 89787180 - 89860492 | | FALSE | TRUE |
| 1 | 173833038 - 173838020 | | TRUE | FALSE |
| 1 | 173833038 - 173838020 | | TRUE | FALSE |
| 1 | 173833038 - 173838020 | F - 9.09% | TRUE | TRUE |
| 1 | 173833038 - 173838020 | F - 11.36% | TRUE | TRUE |
| 1 | 173833038 - 173838020 | | FALSE | TRUE |
| 1 | 173833038 - 173838020 | | FALSE | TRUE |
| 7 | 28338940 - 28865511 | F - 5.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 15.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 5.00% | FALSE | TRUE |
| 7 | 28338940 - 28865511 | F - 10.00% | FALSE | TRUE |
| 7 | 28338940 - 28865511 | F - 5.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 30.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 10.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 5.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | T - 50.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | T - 50.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 20.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 5.00% | FALSE | TRUE |
| 7 | 28338940 - 28865511 | F - 35.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 5.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 40.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | F - 35.00% | TRUE | TRUE |
| 7 | 28338940 - 28865511 | | FALSE | TRUE |
| 10 | 74766975 - 74856732 | | TRUE | TRUE |
| 10 | 74766975 - 74856732 | F - 13.33% | TRUE | TRUE |
| 10 | 74766975 - 74856732 | F - 6.67% | FALSE | TRUE |
| 10 | 74766975 - 74856732 | | TRUE | TRUE |
| 10 | 74766975 - 74856732 | | FALSE | TRUE |
| 10 | 74766975 - 74856732 | | FALSE | TRUE |
| 10 | 74766975 - 74856732 | | FALSE | TRUE |
| 10 | 74766975 - 74856732 | T - 73.33% | TRUE | TRUE |
| 10 | 74766975 - 74856732 | | TRUE | TRUE |
| 10 | 74766975 - 74856732 | T - 80.00% | TRUE | TRUE |
| 20 | 48429250 - 48508779 | | TRUE | FALSE |
| 20 | 48429250 - 48508779 | F - 46.67% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | F - 8.70% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | | TRUE | TRUE |
| 22 | 36536371 - 36562225 | F - 13.04% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 22 | 36536371 - 36562225 | F - 30.43% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | | TRUE | TRUE |
| 22 | 36536371 - 36562225 | F - 39.13% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | F - 4.35% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | | TRUE | TRUE |
| 22 | 36536371 - 36562225 | T - 52.17% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | F - 13.04% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | T - 56.52% | TRUE | TRUE |
| 22 | 36536371 - 36562225 | F - 21.74% | FALSE | TRUE |
| 22 | 36536371 - 36562225 | T - 73.91% | FALSE | TRUE |
| 22 | 36536371 - 36562225 | T - 78.26% | TRUE | TRUE |
| X | 48830134 - 48858675 | | TRUE | TRUE |
| X | 48830134 - 48858675 | | TRUE | TRUE |
| X | 48830134 - 48858675 | T - 71.43% | TRUE | TRUE |
| X | 48830134 - 48858675 | T - 50.00% | FALSE | TRUE |
| X | 48830134 - 48858675 | | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 15.63% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 6.25% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 12.50% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 3.13% | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 12.50% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 18.75% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 18.75% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 3.13% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 18.75% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 9.38% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 6.25% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 18.75% | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 6.25% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 12.50% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | F - 3.13% | FALSE | TRUE |
| 13 | 24553839 - 24896673 | | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 15.63% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 3.13% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 12.50% | FALSE | TRUE |
| 13 | 24553839 - 24896673 | F - 12.50% | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | TRUE | TRUE |
| 13 | 24553839 - 24896673 | | FALSE | TRUE |
| 13 | 24553839 - 24896673 | | FALSE | TRUE |
| 3 | 112929850 - 113006305 | | TRUE | FALSE |
| 3 | 112929850 - 113006305 | | TRUE | FALSE |
| 3 | 112929850 - 113006305 | | TRUE | TRUE |
| 3 | 112929850 - 113006305 | | TRUE | TRUE |
| 3 | 112929850 - 113006305 | | FALSE | TRUE |
| 3 | 112929850 - 113006305 | F - 4.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | F - 4.00% | FALSE | TRUE |
| 3 | 112929850 - 113006305 | F - 8.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | | TRUE | TRUE |
| 3 | 112929850 - 113006305 | | FALSE | TRUE |
| 3 | 112929850 - 113006305 | F - 4.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | | TRUE | TRUE |
| 3 | 112929850 - 113006305 | F - 4.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | F - 16.00% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 3 | 112929850 - 113006305 | F - 36.00% | FALSE | TRUE |
| 3 | 112929850 - 113006305 | F - 4.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | F - 4.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | F - 20.00% | TRUE | TRUE |
| 3 | 112929850 - 113006305 | F - 20.00% | FALSE | TRUE |
| 3 | 112929850 - 113006305 | F - 16.00% | TRUE | TRUE |
| 4 | 101944566 - 102268637 | | TRUE | TRUE |
| 4 | 101944566 - 102268637 | F - 5.88% | TRUE | TRUE |
| 4 | 101944566 - 102268637 | | TRUE | TRUE |
| 4 | 101944566 - 102268637 | | TRUE | TRUE |
| 8 | 19759228 - 19824770 | F - 9.09% | TRUE | FALSE |
| 8 | 19759228 - 19824770 | | TRUE | TRUE |
| 8 | 19759228 - 19824770 | | TRUE | TRUE |
| 8 | 19759228 - 19824770 | | TRUE | TRUE |
| 8 | 19759228 - 19824770 | T - 90.91% | TRUE | TRUE |
| 8 | 19759228 - 19824770 | F - 9.09% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | T - 54.55% | TRUE | TRUE |
| 8 | 19759228 - 19824770 | T - 81.82% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | F - 9.09% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | | FALSE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | | FALSE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | T - 81.82% | TRUE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | TRUE | TRUE |
| 8 | 19759228 - 19824770 | T - 54.55% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | TRUE | TRUE |
| 8 | 19759228 - 19824770 | | TRUE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | FALSE | TRUE |
| 8 | 19759228 - 19824770 | F - 45.45% | TRUE | TRUE |
| 8 | 19759228 - 19824770 | | FALSE | TRUE |
| 8 | 19759228 - 19824770 | | FALSE | TRUE |
| 2 | 178977151 - 179001531 | F - 14.29% | TRUE | FALSE |
| 2 | 178977151 - 179001531 | | TRUE | TRUE |
| 2 | 178977151 - 179001531 | | TRUE | TRUE |
| 2 | 178977151 - 179001531 | | TRUE | TRUE |
| 2 | 178977151 - 179001531 | | TRUE | TRUE |
| 2 | 178977151 - 179001531 | | TRUE | FALSE |
| 2 | 178977151 - 179001531 | | TRUE | TRUE |
| 2 | 178977151 - 179001531 | | FALSE | TRUE |
| 2 | 178977151 - 179001531 | F - 14.29% | FALSE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | FALSE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 37.50% | TRUE | FALSE |
| 5 | 10971952 - 11904155 | F - 8.33% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 4.17% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 29.17% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 12.50% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 33.33% | FALSE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 4.17% | FALSE | TRUE |
| 5 | 10971952 - 11904155 | T - 75.00% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 45.83% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 8.33% | FALSE | TRUE |
| 5 | 10971952 - 11904155 | T - 70.83% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 33.33% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | TRUE | TRUE |
| 5 | 10971952 - 11904155 | T - 58.33% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 20.83% | FALSE | TRUE |
| 5 | 10971952 - 11904155 | F - 4.17% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | F - 37.50% | TRUE | TRUE |
| 5 | 10971952 - 11904155 | | FALSE | TRUE |
| 5 | 10971952 - 11904155 | | FALSE | TRUE |
| 5 | 10971952 - 11904155 | T - 62.50% | FALSE | TRUE |
| 5 | 133541305 - 133706738 | | TRUE | FALSE |
| 5 | 133541305 - 133706738 | | TRUE | TRUE |
| 5 | 133541305 - 133706738 | F - 41.67% | TRUE | FALSE |
| 5 | 133541305 - 133706738 | | TRUE | TRUE |
| 5 | 133541305 - 133706738 | | TRUE | TRUE |
| 5 | 133541305 - 133706738 | | FALSE | TRUE |
| 5 | 133541305 - 133706738 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 5.41% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 5.41% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 5.41% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 10.81% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 5.41% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 8.11% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 13.51% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 16.22% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 18.92% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 18.92% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 5.41% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 5.41% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 13.51% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 43.24% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 10.81% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 10.81% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 2.70% | FALSE | TRUE |
| 4 | 2794750 - 2842825 | F - 40.54% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 4 | 2794750 - 2842825 | F - 43.24% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | F - 40.54% | TRUE | TRUE |
| 4 | 2794750 - 2842825 | | FALSE | TRUE |
| 4 | 2794750 - 2842825 | | FALSE | TRUE |
| 10 | 120967101 - 121215131 | | TRUE | TRUE |
| 10 | 120967101 - 121215131 | F - 10.00% | TRUE | TRUE |
| 10 | 120967101 - 121215131 | F - 20.00% | TRUE | TRUE |
| 10 | 120967101 - 121215131 | | TRUE | TRUE |
| 10 | 120967101 - 121215131 | F - 30.00% | FALSE | TRUE |
| 10 | 120967101 - 121215131 | | TRUE | TRUE |
| 10 | 120967101 - 121215131 | | TRUE | TRUE |
| 10 | 120967101 - 121215131 | F - 10.00% | TRUE | TRUE |
| 10 | 120967101 - 121215131 | | FALSE | TRUE |
| 10 | 120967101 - 121215131 | T - 60.00% | TRUE | TRUE |
| 10 | 120967101 - 121215131 | | TRUE | TRUE |
| 10 | 120967101 - 121215131 | F - 10.00% | FALSE | TRUE |
| 10 | 120967101 - 121215131 | F - 40.00% | TRUE | TRUE |
| 10 | 120967101 - 121215131 | | TRUE | TRUE |
| 10 | 120967101 - 121215131 | T - 70.00% | FALSE | TRUE |
| 10 | 120967101 - 121215131 | T - 70.00% | TRUE | TRUE |
| 2 | 228189867 - 228222550 | | TRUE | TRUE |
| 2 | 228189867 - 228222550 | T - 64.52% | TRUE | TRUE |
| 2 | 228189867 - 228222550 | F - 3.23% | TRUE | TRUE |
| 4 | 15606007 - 15683302 | F - 9.52% | TRUE | TRUE |
| 4 | 15606007 - 15683302 | | TRUE | FALSE |
| 4 | 15606007 - 15683302 | | TRUE | TRUE |
| 4 | 15606007 - 15683302 | | TRUE | TRUE |
| 4 | 15606007 - 15683302 | | TRUE | FALSE |
| 4 | 15606007 - 15683302 | | TRUE | TRUE |
| 8 | 38243821 - 38267045 | | TRUE | FALSE |
| 8 | 38243821 - 38267045 | F - 5.56% | FALSE | TRUE |
| 8 | 38243821 - 38267045 | F - 5.56% | FALSE | TRUE |
| 8 | 38243821 - 38267045 | F - 11.11% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | F - 5.56% | FALSE | TRUE |
| 8 | 38243821 - 38267045 | T - 55.56% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | T - 77.78% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | T - 72.22% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | F - 33.33% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | F - 16.67% | FALSE | TRUE |
| 8 | 38243821 - 38267045 | | FALSE | TRUE |
| 8 | 38243821 - 38267045 | F - 16.67% | FALSE | TRUE |
| 8 | 38243821 - 38267045 | | TRUE | TRUE |
| 8 | 38243821 - 38267045 | T - 77.78% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | T - 72.22% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | T - 66.67% | TRUE | TRUE |
| 8 | 38243821 - 38267045 | | FALSE | TRUE |
| 18 | 8706513 - 8832776 | | TRUE | FALSE |
| 18 | 8706513 - 8832776 | F - 5.00% | TRUE | TRUE |
| 18 | 8706513 - 8832776 | F - 20.00% | FALSE | TRUE |
| 18 | 8706513 - 8832776 | F - 20.00% | TRUE | TRUE |
| 1 | 150480487 - 150486265 | F - 6.67% | TRUE | TRUE |
| 1 | 150480487 - 150486265 | F - 46.67% | TRUE | TRUE |
| 1 | 150480487 - 150486265 | F - 33.33% | TRUE | FALSE |
| 1 | 150480487 - 150486265 | F - 13.33% | TRUE | TRUE |
| 1 | 150480487 - 150486265 | | FALSE | TRUE |
| 1 | 150480487 - 150486265 | F - 46.67% | TRUE | TRUE |
| 1 | 150480487 - 150486265 | | TRUE | TRUE |
| 1 | 150480487 - 150486265 | F - 13.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 150480487 - 150486265 | | FALSE | TRUE |
| 1 | 150480487 - 150486265 | F - 26.67% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | | TRUE | TRUE |
| 17 | 75277492 - 75496678 | | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 4.17% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 4.17% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 20.83% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 16.67% | FALSE | TRUE |
| 17 | 75277492 - 75496678 | F - 8.33% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 8.33% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 4.17% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 8.33% | FALSE | TRUE |
| 17 | 75277492 - 75496678 | F - 8.33% | FALSE | TRUE |
| 17 | 75277492 - 75496678 | | FALSE | TRUE |
| 17 | 75277492 - 75496678 | F - 8.33% | FALSE | TRUE |
| 17 | 75277492 - 75496678 | F - 8.33% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | | TRUE | TRUE |
| 17 | 75277492 - 75496678 | F - 12.50% | TRUE | TRUE |
| 17 | 75277492 - 75496678 | | TRUE | TRUE |
| 2 | 240831867 - 240964819 | | TRUE | TRUE |
| 2 | 240831867 - 240964819 | F - 25.00% | FALSE | TRUE |
| 2 | 240831867 - 240964819 | | TRUE | FALSE |
| 2 | 240831867 - 240964819 | | TRUE | TRUE |
| 11 | 10471868 - 10529126 | | TRUE | TRUE |
| 11 | 10471868 - 10529126 | | TRUE | TRUE |
| 11 | 10471868 - 10529126 | F - 28.57% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | F - 14.29% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | | FALSE | TRUE |
| 11 | 10471868 - 10529126 | F - 35.71% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | T - 92.86% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | F - 28.57% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | | TRUE | TRUE |
| 11 | 10471868 - 10529126 | F - 28.57% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | | TRUE | TRUE |
| 11 | 10471868 - 10529126 | F - 7.14% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | | TRUE | TRUE |
| 11 | 10471868 - 10529126 | F - 7.14% | FALSE | TRUE |
| 11 | 10471868 - 10529126 | F - 7.14% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | T - 92.86% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | T - 85.71% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | T - 71.43% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | T - 85.71% | TRUE | TRUE |
| 11 | 10471868 - 10529126 | T - 85.71% | FALSE | TRUE |
| 11 | 10471868 - 10529126 | | FALSE | TRUE |
| 11 | 10471868 - 10529126 | | FALSE | TRUE |
| 11 | 10471868 - 10529126 | | FALSE | TRUE |
| X | 74493894 - 74524732 | T - 63.64% | TRUE | FALSE |
| X | 74493894 - 74524732 | | FALSE | TRUE |
| X | 45707327 - 45710920 | | TRUE | TRUE |
| X | 45707327 - 45710920 | F - 33.33% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | | TRUE | FALSE |
| 1 | 245318287 - 245866428 | | TRUE | FALSE |
| 1 | 245318287 - 245866428 | | TRUE | FALSE |
| 1 | 245318287 - 245866428 | | TRUE | FALSE |
| 1 | 245318287 - 245866428 | F - 25.00% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | | TRUE | TRUE |
| 1 | 245318287 - 245866428 | T - 62.50% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 245318287 - 245866428 | F - 12.50% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | F - 12.50% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | F - 12.50% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | | FALSE | TRUE |
| 1 | 245318287 - 245866428 | | TRUE | TRUE |
| 1 | 245318287 - 245866428 | F - 25.00% | TRUE | TRUE |
| 1 | 245318287 - 245866428 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 23.81% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | FALSE |
| 5 | 35617946 - 35814713 | | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 19.05% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 19.05% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 33.33% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 19.05% | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 9.52% | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 38.10% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 33.33% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 33.33% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 23.81% | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 42.86% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 23.81% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 23.81% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | FALSE | TRUE |
| 5 | 35617946 - 35814713 | F - 23.81% | TRUE | TRUE |
| 5 | 35617946 - 35814713 | | TRUE | TRUE |
| 5 | 35617946 - 35814713 | F - 4.76% | TRUE | TRUE |
| 4 | 103715540 - 103790053 | | TRUE | TRUE |
| 4 | 103715540 - 103790053 | | TRUE | TRUE |
| 4 | 103715540 - 103790053 | F - 4.55% | TRUE | TRUE |
| 7 | 102178365 - 102220258 | | TRUE | TRUE |
| 7 | 102178365 - 102220258 | | TRUE | FALSE |
| 7 | 102178365 - 102220258 | F - 7.69% | TRUE | TRUE |
| 7 | 102178365 - 102220258 | | TRUE | TRUE |
| 7 | 102178365 - 102220258 | F - 23.33% | TRUE | TRUE |
| 2 | 44001178 - 44037149 | | TRUE | FALSE |
| 2 | 44001178 - 44037149 | F - 44.44% | TRUE | TRUE |
| 2 | 27667238 - 27712656 | | TRUE | TRUE |
| 2 | 27667238 - 27712656 | | TRUE | TRUE |
| 2 | 27667238 - 27712656 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 27667238 - 27712656 | F - 4.00% | TRUE | TRUE |
| 2 | 27667238 - 27712656 | | TRUE | TRUE |
| 2 | 27667238 - 27712656 | F - 4.00% | FALSE | TRUE |
| 2 | 27667238 - 27712656 | | FALSE | TRUE |
| 2 | 27667238 - 27712656 | | TRUE | TRUE |
| 2 | 27667238 - 27712656 | | FALSE | TRUE |
| 2 | 27667238 - 27712656 | | FALSE | TRUE |
| 2 | 27667238 - 27712656 | | FALSE | TRUE |
| 2 | 27667238 - 27712656 | | FALSE | TRUE |
| 2 | 27667238 - 27712656 | | FALSE | TRUE |
| 17 | 70117161 - 70122561 | | TRUE | TRUE |
| 17 | 70117161 - 70122561 | T - 60.00% | TRUE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | F - 25.00% | FALSE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 19 | 5158506 - 5340814 | T - 75.00% | FALSE | TRUE |
| 19 | 5158506 - 5340814 | | TRUE | TRUE |
| 7 | 128430811 - 128462187 | | TRUE | TRUE |
| 7 | 128430811 - 128462187 | | TRUE | TRUE |
| 7 | 128430811 - 128462187 | T - 72.73% | FALSE | TRUE |
| 7 | 128430811 - 128462187 | | FALSE | TRUE |
| 11 | 72975550 - 73009664 | | TRUE | TRUE |
| 11 | 72975550 - 73009664 | | TRUE | TRUE |
| 11 | 72975550 - 73009664 | F - 11.11% | FALSE | TRUE |
| 11 | 72975550 - 73009664 | F - 5.56% | FALSE | TRUE |
| 11 | 72975550 - 73009664 | F - 38.89% | FALSE | TRUE |
| 11 | 72975550 - 73009664 | T - 66.67% | TRUE | TRUE |
| 11 | 72975550 - 73009664 | T - 94.44% | TRUE | TRUE |
| 11 | 72975550 - 73009664 | | FALSE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | FALSE |
| 6 | 72596406 - 73112845 | | TRUE | FALSE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | FALSE |
| 6 | 72596406 - 73112845 | F - 4.44% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 6 | 72596406 - 73112845 | F - 8.89% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | F - 6.67% | TRUE | FALSE |
| 6 | 72596406 - 73112845 | T - 53.33% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | F - 6.67% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | T - 64.44% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | F - 4.44% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | F - 4.44% | TRUE | TRUE |
| 6 | 72596406 - 73112845 | | TRUE | TRUE |
| 1 | 26856249 - 26901521 | | TRUE | TRUE |
| 1 | 26856249 - 26901521 | F - 10.53% | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | TRUE | TRUE |
| 1 | 26856249 - 26901521 | F - 21.05% | TRUE | TRUE |
| 1 | 26856249 - 26901521 | T - 78.95% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 26856249 - 26901521 | T - 78.95% | FALSE | TRUE |
| 1 | 26856249 - 26901521 | T - 63.16% | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | FALSE | TRUE |
| 1 | 26856249 - 26901521 | | FALSE | TRUE |
| 12 | 69201956 - 69239214 | | TRUE | TRUE |
| 12 | 69201956 - 69239214 | T - 75.00% | TRUE | TRUE |
| 12 | 69201956 - 69239214 | | FALSE | TRUE |
| 12 | 69201956 - 69239214 | F - 1.92% | TRUE | TRUE |
| 2 | 88856259 - 88927094 | | TRUE | TRUE |
| 2 | 88856259 - 88927094 | F - 10.00% | TRUE | FALSE |
| 2 | 88856259 - 88927094 | T - 50.00% | TRUE | FALSE |
| 2 | 88856259 - 88927094 | T - 50.00% | TRUE | TRUE |
| 2 | 88856259 - 88927094 | T - 50.00% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 17.65% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 29.41% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | | FALSE | TRUE |
| 12 | 7965108 - 8043744 | | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 11.76% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | | FALSE | TRUE |
| 12 | 7965108 - 8043744 | F - 29.41% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 17.65% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | | FALSE | TRUE |
| 12 | 7965108 - 8043744 | | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 11.76% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 23.53% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | T - 82.35% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | F - 29.41% | TRUE | TRUE |
| 12 | 7965108 - 8043744 | | FALSE | TRUE |
| 4 | 182795591 - 183066402 | | TRUE | FALSE |
| 4 | 182795591 - 183066402 | F - 33.33% | TRUE | TRUE |
| 4 | 182795591 - 183066402 | | TRUE | FALSE |
| 4 | 182795591 - 183066402 | F - 22.22% | TRUE | TRUE |
| 4 | 182795591 - 183066402 | F - 11.11% | TRUE | TRUE |
| 4 | 182795591 - 183066402 | F - 11.11% | TRUE | TRUE |
| 4 | 182795591 - 183066402 | | TRUE | TRUE |
| 4 | 182795591 - 183066402 | F - 11.11% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | | TRUE | TRUE |
| 8 | 120177273 - 120257914 | F - 11.11% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | | TRUE | TRUE |
| 8 | 120177273 - 120257914 | F - 44.44% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | | TRUE | TRUE |
| 8 | 120177273 - 120257914 | F - 11.11% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | T - 55.56% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | T - 66.67% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | F - 11.11% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | F - 11.11% | FALSE | TRUE |
| 8 | 120177273 - 120257914 | T - 55.56% | TRUE | TRUE |
| 8 | 120177273 - 120257914 | | FALSE | TRUE |
| 10 | 18834264 - 18940551 | | TRUE | FALSE |
| 10 | 18834264 - 18940551 | F - 25.00% | TRUE | TRUE |
| 10 | 18834264 - 18940551 | | TRUE | TRUE |
| 2 | 192109911 - 192290115 | | TRUE | TRUE |
| 2 | 192109911 - 192290115 | | TRUE | FALSE |
| 2 | 192109911 - 192290115 | F - 9.09% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 192109911 - 192290115 | F - 4.55% | TRUE | TRUE |
| 2 | 192109911 - 192290115 | F - 4.55% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | T - 75.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | T - 75.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | T - 75.00% | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | T - 100.00% | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | FALSE |
| 2 | 21224301 - 21266945 | T - 100.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | TRUE |
| 2 | 21224301 - 21266945 | T - 100.00% | TRUE | FALSE |
| 2 | 21224301 - 21266945 | | TRUE | TRUE |
| 2 | 21224301 - 21266945 | T - 100.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | T - 100.00% | TRUE | FALSE |
| 2 | 21224301 - 21266945 | F - 25.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | T - 75.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | | TRUE | TRUE |
| 2 | 21224301 - 21266945 | T - 50.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | T - 100.00% | TRUE | TRUE |
| 2 | 21224301 - 21266945 | F - 25.00% | TRUE | FALSE |
| 15 | 29412455 - 29862927 | T - 50.00% | TRUE | FALSE |
| 15 | 29412455 - 29862927 | T - 75.00% | TRUE | FALSE |
| 15 | 29412455 - 29862927 | | FALSE | TRUE |
| 1 | 86194916 - 86622626 | | TRUE | FALSE |
| 1 | 86194916 - 86622626 | T - 66.67% | TRUE | FALSE |
| 1 | 86194916 - 86622626 | | TRUE | FALSE |
| 1 | 86194916 - 86622626 | | TRUE | TRUE |
| 1 | 86194916 - 86622626 | T - 73.33% | TRUE | TRUE |
| 1 | 86194916 - 86622626 | T - 80.00% | TRUE | TRUE |
| 1 | 86194916 - 86622626 | | TRUE | TRUE |
| 1 | 86194916 - 86622626 | T - 73.33% | FALSE | TRUE |
| 1 | 86194916 - 86622626 | | TRUE | TRUE |
| 1 | 86194916 - 86622626 | | TRUE | TRUE |
| 1 | 86194916 - 86622626 | T - 73.33% | TRUE | TRUE |
| 1 | 86194916 - 86622626 | | FALSE | TRUE |
| X | 51927919 - 51935364 | | TRUE | FALSE |
| X | 51927919 - 51935364 | | TRUE | FALSE |
| X | 51927919 - 51935364 | F - 4.76% | TRUE | TRUE |
| X | 51927919 - 51935364 | | TRUE | TRUE |
| X | 51927919 - 51935364 | F - 33.33% | TRUE | TRUE |
| X | 51927919 - 51935364 | | TRUE | TRUE |
| X | 51927919 - 51935364 | | TRUE | TRUE |
| X | 51927919 - 51935364 | F - 4.76% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | F - 18.75% | TRUE | FALSE |
| 3 | 58490863 - 58523046 | F - 6.25% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | | TRUE | TRUE |
| 3 | 58490863 - 58523046 | F - 12.50% | FALSE | TRUE |
| 3 | 58490863 - 58523046 | T - 50.00% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 3 | 58490863 - 58523046 | F - 6.25% | FALSE | TRUE |
| 3 | 58490863 - 58523046 | | FALSE | TRUE |
| 3 | 58490863 - 58523046 | T - 50.00% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | | TRUE | TRUE |
| 3 | 58490863 - 58523046 | | FALSE | TRUE |
| 3 | 58490863 - 58523046 | F - 43.75% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | T - 50.00% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | F - 25.00% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | T - 50.00% | TRUE | TRUE |
| 3 | 58490863 - 58523046 | | FALSE | TRUE |
| 10 | 45454855 - 45490172 | | TRUE | TRUE |
| 10 | 45454855 - 45490172 | | TRUE | TRUE |
| 10 | 45454855 - 45490172 | F - 4.55% | FALSE | TRUE |
| 10 | 45454855 - 45490172 | F - 4.55% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | F - 4.55% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | F - 4.55% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | | FALSE | TRUE |
| 10 | 45454855 - 45490172 | F - 4.55% | FALSE | TRUE |
| 10 | 45454855 - 45490172 | | FALSE | TRUE |
| 10 | 45454855 - 45490172 | F - 4.55% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | | TRUE | TRUE |
| 10 | 45454855 - 45490172 | | TRUE | TRUE |
| 10 | 45454855 - 45490172 | T - 72.73% | FALSE | TRUE |
| 10 | 45454855 - 45490172 | | TRUE | TRUE |
| 10 | 45454855 - 45490172 | F - 9.09% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | T - 72.73% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | | TRUE | TRUE |
| 10 | 45454855 - 45490172 | T - 59.09% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | T - 77.27% | TRUE | TRUE |
| 10 | 45454855 - 45490172 | | FALSE | TRUE |
| 21 | 34931848 - 34961267 | | TRUE | TRUE |
| 21 | 34931848 - 34961267 | | TRUE | TRUE |
| 21 | 34931848 - 34961267 | F - 5.88% | TRUE | TRUE |
| Y | 21729235 - 21752309 | F - 40.00% | TRUE | FALSE |
| Y | 21729235 - 21752309 | T - 60.00% | TRUE | FALSE |
| Y | 21729235 - 21752309 | T - 100.00% | TRUE | TRUE |
| Y | 21729235 - 21752309 | T - 80.00% | TRUE | TRUE |
| Y | 21729235 - 21752309 | | TRUE | FALSE |
| Y | 21729235 - 21752309 | F - 30.00% | TRUE | TRUE |
| Y | 21729235 - 21752309 | T - 50.00% | TRUE | FALSE |
| Y | 21729235 - 21752309 | F - 40.00% | TRUE | TRUE |
| Y | 21729235 - 21752309 | F - 20.00% | TRUE | TRUE |
| Y | 21729235 - 21752309 | | TRUE | TRUE |
| Y | 21729235 - 21752309 | F - 20.00% | TRUE | FALSE |
| Y | 21729235 - 21752309 | T - 80.00% | TRUE | TRUE |
| 11 | 1411129 - 1483915 | | TRUE | FALSE |
| 11 | 1411129 - 1483915 | | TRUE | FALSE |
| 11 | 1411129 - 1483915 | | TRUE | TRUE |
| 11 | 1411129 - 1483915 | | TRUE | FALSE |
| 11 | 1411129 - 1483915 | T - 61.11% | TRUE | TRUE |
| 11 | 1411129 - 1483915 | | TRUE | TRUE |
| 11 | 1411129 - 1483915 | | FALSE | TRUE |
| 2 | 25455496 - 25565459 | | TRUE | TRUE |
| 2 | 25455496 - 25565459 | | TRUE | TRUE |
| 2 | 25455496 - 25565459 | F - 4.55% | TRUE | TRUE |
| 2 | 25455496 - 25565459 | | TRUE | TRUE |
| 2 | 25455496 - 25565459 | | TRUE | TRUE |
| 2 | 25455496 - 25565459 | T - 59.09% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 70674412 - 70781325 | | TRUE | FALSE |
| 2 | 70674412 - 70781325 | F - 40.00% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | | TRUE | TRUE |
| 2 | 70674412 - 70781325 | T - 53.33% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | F - 26.67% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | F - 6.67% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | | TRUE | TRUE |
| 2 | 70674412 - 70781325 | T - 86.67% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | F - 6.67% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | T - 93.33% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | F - 20.00% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | | FALSE | TRUE |
| 2 | 70674412 - 70781325 | | FALSE | TRUE |
| 2 | 70674412 - 70781325 | F - 33.33% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | F - 26.67% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | T - 93.33% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | T - 60.00% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | F - 26.67% | FALSE | TRUE |
| 2 | 70674412 - 70781325 | F - 40.00% | TRUE | TRUE |
| 2 | 70674412 - 70781325 | | FALSE | TRUE |
| 5 | 141337893 - 141369856 | | TRUE | TRUE |
| 5 | 141337893 - 141369856 | | TRUE | TRUE |
| 5 | 141337893 - 141369856 | | TRUE | FALSE |
| 5 | 141337893 - 141369856 | T - 51.85% | TRUE | TRUE |
| 6 | 108616098 - 108847999 | | TRUE | FALSE |
| 6 | 108616098 - 108847999 | | TRUE | FALSE |
| 6 | 108616098 - 108847999 | F - 11.11% | TRUE | TRUE |
| 12 | 21950324 - 22094336 | | TRUE | FALSE |
| 12 | 21950324 - 22094336 | T - 62.50% | TRUE | TRUE |
| 12 | 21950324 - 22094336 | | TRUE | FALSE |
| 12 | 21950324 - 22094336 | | TRUE | FALSE |
| 12 | 21950324 - 22094336 | | TRUE | FALSE |
| 12 | 21950324 - 22094336 | T - 62.50% | TRUE | TRUE |
| 12 | 21950324 - 22094336 | | FALSE | TRUE |
| 12 | 21950324 - 22094336 | | FALSE | TRUE |
| 12 | 21950324 - 22094336 | | TRUE | TRUE |
| 12 | 21950324 - 22094336 | | FALSE | TRUE |
| 12 | 21950324 - 22094336 | | FALSE | TRUE |
| 12 | 21950324 - 22094336 | | TRUE | TRUE |
| 16 | 29882480 - 29910585 | | TRUE | FALSE |
| 16 | 29882480 - 29910585 | | TRUE | FALSE |
| 16 | 29882480 - 29910585 | | TRUE | TRUE |
| 16 | 29882480 - 29910585 | | TRUE | TRUE |
| 16 | 29882480 - 29910585 | T - 72.73% | TRUE | TRUE |
| 16 | 29882480 - 29910585 | | TRUE | FALSE |
| 16 | 29882480 - 29910585 | T - 100.00% | TRUE | TRUE |
| 16 | 29882480 - 29910585 | | TRUE | FALSE |
| 16 | 29882480 - 29910585 | T - 100.00% | TRUE | TRUE |
| 16 | 29882480 - 29910585 | | TRUE | FALSE |
| 16 | 29882480 - 29910585 | T - 90.91% | FALSE | TRUE |
| 16 | 29882480 - 29910585 | | FALSE | TRUE |
| 2 | 173420101 - 173489823 | F - 37.50% | FALSE | TRUE |
| 2 | 173420101 - 173489823 | F - 12.50% | TRUE | TRUE |
| 2 | 173420101 - 173489823 | F - 6.25% | FALSE | TRUE |
| 2 | 173420101 - 173489823 | | FALSE | TRUE |
| 2 | 173420101 - 173489823 | F - 18.75% | FALSE | TRUE |
| 2 | 173420101 - 173489823 | F - 31.25% | TRUE | TRUE |
| 2 | 173420101 - 173489823 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 2 | 173420101 - 173489823 | | TRUE | TRUE |
| 2 | 173420101 - 173489823 | F - 6.25% | TRUE | TRUE |
| 2 | 173420101 - 173489823 | | FALSE | TRUE |
| 2 | 173420101 - 173489823 | T - 50.00% | TRUE | TRUE |
| 2 | 173420101 - 173489823 | F - 12.50% | TRUE | TRUE |
| 2 | 173420101 - 173489823 | | FALSE | TRUE |
| 2 | 173420101 - 173489823 | | FALSE | TRUE |
| 2 | 173420101 - 173489823 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | TRUE | FALSE |
| 6 | 152442819 - 152958534 | F - 1.75% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 1.75% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 1.75% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 8.77% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 1.75% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 1.75% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 1.75% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 3.51% | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | F - 24.56% | FALSE | TRUE |
| 6 | 152442819 - 152958534 | F - 28.07% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 28.07% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 22.81% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | F - 28.07% | FALSE | TRUE |
| 6 | 152442819 - 152958534 | F - 24.56% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 6 | 152442819 - 152958534 | F - 28.07% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | F - 28.07% | TRUE | TRUE |
| 6 | 152442819 - 152958534 | | FALSE | TRUE |
| 7 | 120628731 - 120937498 | | TRUE | TRUE |
| 7 | 120628731 - 120937498 | | TRUE | TRUE |
| 7 | 120628731 - 120937498 | | TRUE | TRUE |
| 7 | 120628731 - 120937498 | F - 6.67% | TRUE | TRUE |
| 7 | 120628731 - 120937498 | F - 6.67% | TRUE | TRUE |
| 7 | 120628731 - 120937498 | F - 33.33% | TRUE | TRUE |
| 7 | 120628731 - 120937498 | F - 13.33% | TRUE | TRUE |
| 7 | 120628731 - 120937498 | | FALSE | TRUE |
| 7 | 120628731 - 120937498 | F - 6.67% | FALSE | TRUE |
| 7 | 120628731 - 120937498 | | FALSE | TRUE |
| 7 | 120628731 - 120937498 | | FALSE | TRUE |
| 2 | 201717732 - 201729467 | | TRUE | TRUE |
| 2 | 201717732 - 201729467 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 2 | 201717732 - 201729467 | | TRUE | TRUE |
| | 2 | 201717732 - 201729467 | | TRUE | TRUE |
| | 2 | 201717732 - 201729467 | F - 14.29% | TRUE | TRUE |
| | 2 | 201717732 - 201729467 | F - 14.29% | TRUE | TRUE |
| | 2 | 201717732 - 201729467 | F - 19.05% | TRUE | TRUE |
| | 2 | 201717732 - 201729467 | F - 19.05% | TRUE | TRUE |
| | 2 | 201717732 - 201729467 | F - 14.29% | TRUE | TRUE |
| | 7 | 134127107 - 134144036 | | TRUE | FALSE |
| | 7 | 134127107 - 134144036 | F - 5.56% | TRUE | TRUE |
| | 7 | 134127107 - 134144036 | F - 5.56% | TRUE | TRUE |
| | 7 | 134127107 - 134144036 | F - 16.67% | TRUE | TRUE |
| | 7 | 134127107 - 134144036 | F - 5.56% | TRUE | TRUE |
| | 7 | 134127107 - 134144036 | F - 5.56% | TRUE | TRUE |
| | 7 | 134127107 - 134144036 | F - 5.56% | TRUE | TRUE |
| Y | | 21034387 - 21239302 | F - 40.00% | TRUE | TRUE |
| Y | | 21034387 - 21239302 | | TRUE | FALSE |
| Y | | 21034387 - 21239302 | | TRUE | FALSE |
| Y | | 21034387 - 21239302 | F - 20.00% | TRUE | TRUE |
| Y | | 21034387 - 21239302 | F - 40.00% | TRUE | FALSE |
| Y | | 21034387 - 21239302 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | F - 33.33% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | F - 22.22% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | T - 66.67% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | T - 55.56% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | F - 11.11% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | T - 66.67% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | T - 66.67% | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 10 | 121485559 - 121588662 | | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 13.04% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 8.70% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 8.70% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | T - 69.57% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | | FALSE | TRUE |
| | 3 | 53258723 - 53290130 | F - 13.04% | FALSE | TRUE |
| | 3 | 53258723 - 53290130 | | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | F - 4.35% | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | | TRUE | TRUE |
| | 3 | 53258723 - 53290130 | | FALSE | TRUE |
| X | | 51804923 - 51812368 | | TRUE | FALSE |
| X | | 51804923 - 51812368 | | TRUE | FALSE |
| X | | 51804923 - 51812368 | F - 29.17% | TRUE | TRUE |
| X | | 51804923 - 51812368 | F - 4.17% | TRUE | TRUE |
| X | | 51804923 - 51812368 | | TRUE | TRUE |

| | | | | |
|---|-------------------------|------------|-------|-------|
| X | 51804923 - 51812368 | F - 12.50% | TRUE | TRUE |
| X | 51804923 - 51812368 | | TRUE | TRUE |
| X | 51804923 - 51812368 | | TRUE | TRUE |
| X | 51804923 - 51812368 | F - 8.33% | TRUE | TRUE |
| X | 148678216 - 148713568 | | TRUE | FALSE |
| X | 148678216 - 148713568 | | TRUE | TRUE |
| X | 148678216 - 148713568 | | TRUE | TRUE |
| X | 148678216 - 148713568 | T - 56.25% | TRUE | TRUE |
| | 1 145289772 - 145370303 | | TRUE | FALSE |
| | 1 145289772 - 145370303 | F - 4.55% | TRUE | TRUE |
| | 1 145289772 - 145370303 | | TRUE | FALSE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 24.14% | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | FALSE |
| | 10 23983675 - 24836772 | F - 37.93% | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | FALSE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 44.83% | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 6.90% | FALSE | TRUE |
| | 10 23983675 - 24836772 | F - 3.45% | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 24.14% | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 34.48% | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 6.90% | TRUE | TRUE |
| | 10 23983675 - 24836772 | | TRUE | TRUE |
| | 10 23983675 - 24836772 | F - 6.90% | TRUE | TRUE |
| | 1 22004791 - 22110099 | | TRUE | TRUE |
| | 1 22004791 - 22110099 | | TRUE | FALSE |
| | 1 22004791 - 22110099 | F - 4.76% | TRUE | TRUE |
| | 1 22004791 - 22110099 | | TRUE | TRUE |
| | 1 22004791 - 22110099 | T - 66.67% | TRUE | TRUE |
| | 1 22004791 - 22110099 | | TRUE | TRUE |
| | 1 22004791 - 22110099 | | FALSE | TRUE |
| | 1 22004791 - 22110099 | | TRUE | TRUE |
| | 4 140637546 - 141075338 | | TRUE | FALSE |
| | 4 140637546 - 141075338 | T - 66.67% | TRUE | TRUE |
| | 4 140637546 - 141075338 | | TRUE | TRUE |
| | 4 140637546 - 141075338 | | TRUE | TRUE |
| | 4 140637546 - 141075338 | | TRUE | TRUE |
| | 17 19581628 - 19622292 | | TRUE | TRUE |
| | 17 19581628 - 19622292 | | TRUE | FALSE |
| | 17 19581628 - 19622292 | F - 6.25% | TRUE | TRUE |
| | 17 19581628 - 19622292 | F - 12.50% | TRUE | TRUE |
| | 17 19581628 - 19622292 | F - 12.50% | TRUE | TRUE |
| | 17 19581628 - 19622292 | F - 25.00% | FALSE | TRUE |
| | 17 19581628 - 19622292 | F - 6.25% | TRUE | TRUE |
| | 17 19581628 - 19622292 | | TRUE | TRUE |
| | 17 19581628 - 19622292 | | FALSE | TRUE |
| | 17 19581628 - 19622292 | | TRUE | TRUE |
| | 17 19581628 - 19622292 | F - 6.25% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | T - 75.00% | FALSE | TRUE |
| 17 | 19581628 - 19622292 | T - 87.50% | TRUE | TRUE |
| 17 | 19581628 - 19622292 | F - 6.25% | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | F - 6.25% | TRUE | TRUE |
| 17 | 19581628 - 19622292 | F - 43.75% | FALSE | TRUE |
| 17 | 19581628 - 19622292 | F - 25.00% | TRUE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | F - 6.25% | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | TRUE | TRUE |
| 17 | 19581628 - 19622292 | F - 6.25% | TRUE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | T - 93.75% | TRUE | TRUE |
| 17 | 19581628 - 19622292 | T - 68.75% | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | TRUE | TRUE |
| 17 | 19581628 - 19622292 | T - 100.00% | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 17 | 19581628 - 19622292 | | FALSE | TRUE |
| 6_mann_hap4 | 2583421 - 2586798 | | TRUE | FALSE |
| 6_mann_hap4 | 2583421 - 2586798 | F - 9.52% | TRUE | TRUE |
| 6_mann_hap4 | 2583421 - 2586798 | | TRUE | TRUE |
| 6_mann_hap4 | 2583421 - 2586798 | | TRUE | TRUE |
| 6_mann_hap4 | 2583421 - 2586798 | | TRUE | TRUE |
| 6_mann_hap4 | 2583421 - 2586798 | | FALSE | TRUE |
| 1 | 153746830 - 153752633 | | TRUE | TRUE |
| 1 | 153746830 - 153752633 | F - 7.69% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 100.00% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 6 | 117609463 - 117747018 | F - 33.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | F - 16.67% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | T - 66.67% | TRUE | FALSE |
| 6 | 117609463 - 117747018 | T - 83.33% | TRUE | TRUE |
| 6 | 117609463 - 117747018 | | TRUE | TRUE |
| 7 | 128379346 - 128413477 | F - 27.27% | TRUE | TRUE |
| 7 | 128379346 - 128413477 | | TRUE | TRUE |
| 22 | 31556138 - 31603005 | | TRUE | TRUE |
| 22 | 31556138 - 31603005 | F - 35.00% | TRUE | TRUE |
| 22 | 31556138 - 31603005 | | TRUE | TRUE |
| 6 | 26383324 - 26395102 | | TRUE | FALSE |
| 6 | 26383324 - 26395102 | F - 38.46% | TRUE | TRUE |
| 2 | 110841447 - 110874143 | F - 20.00% | TRUE | TRUE |
| 2 | 110841447 - 110874143 | | FALSE | TRUE |
| 2 | 110841447 - 110874143 | T - 80.00% | TRUE | TRUE |
| 2 | 110841447 - 110874143 | T - 60.00% | TRUE | TRUE |
| 2 | 110841447 - 110874143 | F - 40.00% | FALSE | TRUE |
| 2 | 110841447 - 110874143 | T - 100.00% | TRUE | TRUE |
| 2 | 110841447 - 110874143 | | TRUE | TRUE |
| 5 | 77656339 - 77776562 | | TRUE | TRUE |
| 5 | 77656339 - 77776562 | | TRUE | FALSE |
| 5 | 77656339 - 77776562 | T - 72.22% | TRUE | FALSE |
| 5 | 77656339 - 77776562 | F - 33.33% | TRUE | TRUE |
| 5 | 77656339 - 77776562 | | TRUE | TRUE |
| 5 | 77656339 - 77776562 | T - 50.00% | TRUE | TRUE |
| 5 | 77656339 - 77776562 | T - 77.78% | TRUE | TRUE |
| 5 | 77656339 - 77776562 | F - 5.56% | FALSE | TRUE |
| 5 | 77656339 - 77776562 | T - 55.56% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | | TRUE | FALSE |
| 6_apd_hap1 | 4319165 - 4335362 | | TRUE | FALSE |
| 6_apd_hap1 | 4319165 - 4335362 | F - 7.69% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | F - 15.38% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | F - 46.15% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | T - 84.62% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | F - 46.15% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | F - 7.69% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | T - 92.31% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | F - 38.46% | TRUE | TRUE |
| 6_apd_hap1 | 4319165 - 4335362 | | FALSE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | | TRUE | FALSE |
| 6_dbb_hap3 | 4313685 - 4329894 | | TRUE | FALSE |
| 6_dbb_hap3 | 4313685 - 4329894 | F - 15.38% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | F - 7.69% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | F - 46.15% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | T - 84.62% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | F - 46.15% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | F - 7.69% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 6_dbb_hap3 | 4313685 - 4329894 | T - 92.31% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | F - 38.46% | TRUE | TRUE |
| 6_dbb_hap3 | 4313685 - 4329894 | | FALSE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | | TRUE | FALSE |
| 6_mann_hap4 | 4489886 - 4506101 | | TRUE | FALSE |
| 6_mann_hap4 | 4489886 - 4506101 | F - 46.15% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | F - 15.38% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | F - 7.69% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | F - 46.15% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | T - 84.62% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | F - 7.69% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | T - 92.31% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | F - 38.46% | TRUE | TRUE |
| 6_mann_hap4 | 4489886 - 4506101 | | FALSE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | | TRUE | FALSE |
| 6_mcf_hap5 | 4369219 - 4385416 | | TRUE | FALSE |
| 6_mcf_hap5 | 4369219 - 4385416 | F - 7.69% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | F - 15.38% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | F - 46.15% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | T - 84.62% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | F - 46.15% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | F - 7.69% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | T - 92.31% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | F - 38.46% | TRUE | TRUE |
| 6_mcf_hap5 | 4369219 - 4385416 | | FALSE | TRUE |
| 6_mcf_hap5 | 2617063 - 2620440 | | TRUE | FALSE |
| 6_mcf_hap5 | 2617063 - 2620440 | | TRUE | TRUE |
| 6_mcf_hap5 | 2617063 - 2620440 | | TRUE | TRUE |
| 6_mcf_hap5 | 2617063 - 2620440 | F - 9.52% | TRUE | TRUE |
| 6_mcf_hap5 | 2617063 - 2620440 | | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | | TRUE | FALSE |
| 6_qbl_hap6 | 4264797 - 4281012 | | TRUE | FALSE |
| 6_qbl_hap6 | 4264797 - 4281012 | F - 46.15% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | F - 15.38% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | F - 7.69% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | F - 46.15% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | T - 84.62% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | F - 7.69% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | T - 92.31% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | F - 38.46% | TRUE | TRUE |
| 6_qbl_hap6 | 4264797 - 4281012 | | FALSE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | | TRUE | FALSE |
| 6_ssto_hap7 | 4512850 - 4529059 | | TRUE | FALSE |
| 6_ssto_hap7 | 4512850 - 4529059 | F - 15.38% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | F - 7.69% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | F - 46.15% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | T - 84.62% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | F - 46.15% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | F - 7.69% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | T - 92.31% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | F - 38.46% | TRUE | TRUE |
| 6_ssto_hap7 | 4512850 - 4529059 | | FALSE | TRUE |
| 7 | 156432975 - 156469824 | | TRUE | TRUE |
| 7 | 156432975 - 156469824 | F - 8.70% | TRUE | TRUE |
| 7 | 156432975 - 156469824 | F - 4.35% | TRUE | TRUE |
| 7 | 156432975 - 156469824 | F - 4.35% | FALSE | TRUE |
| X | 114345183 - 114468635 | | TRUE | FALSE |
| X | 114345183 - 114468635 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| X | 114345183 - 114468635 | T - 100.00% | TRUE | TRUE |
| X | 114345183 - 114468635 | | TRUE | TRUE |
| X | 114345183 - 114468635 | | FALSE | TRUE |
| X | 114345183 - 114468635 | | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | TRUE | FALSE |
| 7 | 18126572 - 19036993 | F - 10.42% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | F - 2.08% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | TRUE | TRUE |
| 7 | 18126572 - 19036993 | F - 4.17% | TRUE | FALSE |
| 7 | 18126572 - 19036993 | F - 8.33% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | F - 10.42% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | FALSE | TRUE |
| 7 | 18126572 - 19036993 | F - 18.75% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | F - 25.00% | FALSE | TRUE |
| 7 | 18126572 - 19036993 | F - 14.58% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | F - 25.00% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | FALSE | TRUE |
| 7 | 18126572 - 19036993 | F - 25.00% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | F - 12.50% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | FALSE | TRUE |
| 7 | 18126572 - 19036993 | T - 64.58% | FALSE | TRUE |
| 7 | 18126572 - 19036993 | F - 10.42% | TRUE | TRUE |
| 7 | 18126572 - 19036993 | | FALSE | TRUE |
| 3 | 113682984 - 113775460 | | TRUE | FALSE |
| 3 | 113682984 - 113775460 | | TRUE | TRUE |
| 3 | 113682984 - 113775460 | F - 45.45% | TRUE | TRUE |
| 3 | 113682984 - 113775460 | F - 18.18% | TRUE | FALSE |
| 3 | 113682984 - 113775460 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | FALSE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | T - 100.00% | TRUE | TRUE |
| 10 | 100007443 - 100028007 | T - 100.00% | TRUE | TRUE |
| 10 | 100007443 - 100028007 | | TRUE | TRUE |
| 10 | 100007443 - 100028007 | T - 100.00% | TRUE | TRUE |
| 11 | 123986069 - 124018428 | | FALSE | TRUE |
| 11 | 123986069 - 124018428 | | TRUE | TRUE |
| 11 | 123986069 - 124018428 | | TRUE | TRUE |
| 11 | 123986069 - 124018428 | T - 100.00% | FALSE | TRUE |
| 11 | 123986069 - 124018428 | F - 35.71% | TRUE | TRUE |
| 11 | 123986069 - 124018428 | | TRUE | TRUE |
| 11 | 123986069 - 124018428 | F - 7.14% | FALSE | TRUE |
| 11 | 123986069 - 124018428 | | TRUE | TRUE |
| 11 | 123986069 - 124018428 | T - 50.00% | TRUE | TRUE |
| 11 | 123986069 - 124018428 | | FALSE | TRUE |
| 11 | 123986069 - 124018428 | | TRUE | TRUE |
| 2 | 223289236 - 223425667 | | TRUE | FALSE |
| 2 | 223289236 - 223425667 | | TRUE | TRUE |
| 2 | 223289236 - 223425667 | T - 100.00% | TRUE | TRUE |
| X | 83313354 - 83442943 | | TRUE | FALSE |
| X | 83313354 - 83442943 | | FALSE | TRUE |

| | | | | |
|---|--------------------------|------------|-------|-------|
| X | 83313354 - 83442943 | | TRUE | TRUE |
| X | 83313354 - 83442943 | F - 33.33% | FALSE | TRUE |
| X | 83313354 - 83442943 | T - 77.78% | TRUE | TRUE |
| X | 83313354 - 83442943 | F - 22.22% | FALSE | TRUE |
| X | 83313354 - 83442943 | F - 33.33% | FALSE | TRUE |
| X | 83313354 - 83442943 | | TRUE | TRUE |
| X | 83313354 - 83442943 | F - 11.11% | TRUE | TRUE |
| X | 83313354 - 83442943 | | FALSE | TRUE |
| X | 83313354 - 83442943 | F - 11.11% | FALSE | TRUE |
| X | 83313354 - 83442943 | T - 77.78% | FALSE | TRUE |
| X | 83313354 - 83442943 | | FALSE | TRUE |
| X | 83313354 - 83442943 | T - 66.67% | FALSE | TRUE |
| | 2 36923833 - 37041937 | | TRUE | TRUE |
| | 2 36923833 - 37041937 | T - 66.67% | TRUE | TRUE |
| | 2 36923833 - 37041937 | T - 80.00% | TRUE | TRUE |
| | 2 36923833 - 37041937 | T - 66.67% | TRUE | TRUE |
| | 2 36923833 - 37041937 | T - 86.67% | TRUE | TRUE |
| | 2 36923833 - 37041937 | | FALSE | TRUE |
| | 2 36923833 - 37041937 | T - 73.33% | FALSE | TRUE |
| | 2 36923833 - 37041937 | T - 93.33% | FALSE | TRUE |
| | 22 43924624 - 44208217 | | TRUE | TRUE |
| | 22 43924624 - 44208217 | | TRUE | TRUE |
| | 22 43924624 - 44208217 | | TRUE | FALSE |
| | 22 43924624 - 44208217 | F - 5.26% | TRUE | FALSE |
| | 22 43924624 - 44208217 | F - 36.84% | TRUE | FALSE |
| | 22 43924624 - 44208217 | | TRUE | FALSE |
| | 22 43924624 - 44208217 | F - 47.37% | TRUE | TRUE |
| | 22 43924624 - 44208217 | | TRUE | TRUE |
| | 22 43924624 - 44208217 | | TRUE | TRUE |
| | 22 43924624 - 44208217 | F - 5.26% | TRUE | TRUE |
| | 22 43924624 - 44208217 | F - 10.53% | TRUE | TRUE |
| | 22 43924624 - 44208217 | F - 42.11% | TRUE | TRUE |
| | 10 103113820 - 103317078 | | TRUE | TRUE |
| | 10 103113820 - 103317078 | F - 7.69% | TRUE | TRUE |
| | 10 103113820 - 103317078 | F - 46.15% | TRUE | TRUE |
| | 10 103113820 - 103317078 | | TRUE | TRUE |
| | 10 103113820 - 103317078 | | TRUE | TRUE |
| | 1 61330931 - 61928465 | | TRUE | FALSE |
| | 1 61330931 - 61928465 | | TRUE | TRUE |
| | 1 61330931 - 61928465 | | TRUE | TRUE |
| | 1 61330931 - 61928465 | | TRUE | TRUE |
| | 1 61330931 - 61928465 | T - 76.19% | FALSE | TRUE |
| | 1 61330931 - 61928465 | F - 9.52% | FALSE | TRUE |
| | 6 33130458 - 33160276 | | TRUE | FALSE |
| | 6 33130458 - 33160276 | | TRUE | TRUE |
| | 6 33130458 - 33160276 | | TRUE | TRUE |
| | 6 33130458 - 33160276 | | TRUE | TRUE |
| | 6 33130458 - 33160276 | | TRUE | FALSE |
| | 6 33130458 - 33160276 | | TRUE | FALSE |
| | 6 33130458 - 33160276 | T - 60.00% | FALSE | TRUE |
| | 6 33130458 - 33160276 | | FALSE | TRUE |
| | 6 33130458 - 33160276 | T - 60.00% | TRUE | TRUE |
| | 6 33130458 - 33160276 | | TRUE | TRUE |
| | 6 33130458 - 33160276 | | FALSE | TRUE |
| | 6 33130458 - 33160276 | | FALSE | TRUE |
| | 6 33130458 - 33160276 | | FALSE | TRUE |
| | 18 57098171 - 57364644 | F - 16.67% | FALSE | TRUE |
| | 18 57098171 - 57364644 | F - 33.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 18 | 57098171 - 57364644 | F - 33.33% | FALSE | TRUE |
| 18 | 57098171 - 57364644 | | TRUE | TRUE |
| 18 | 57098171 - 57364644 | T - 66.67% | FALSE | TRUE |
| 18 | 57098171 - 57364644 | T - 66.67% | FALSE | TRUE |
| 18 | 57098171 - 57364644 | T - 50.00% | TRUE | TRUE |
| 18 | 57098171 - 57364644 | | TRUE | TRUE |
| 8 | 56792372 - 56925006 | | TRUE | FALSE |
| 8 | 56792372 - 56925006 | T - 55.56% | TRUE | TRUE |
| 8 | 56792372 - 56925006 | T - 66.67% | TRUE | TRUE |
| 8 | 56792372 - 56925006 | | FALSE | TRUE |
| 8 | 56792372 - 56925006 | F - 44.44% | TRUE | TRUE |
| 8 | 56792372 - 56925006 | T - 55.56% | TRUE | TRUE |
| 8 | 56792372 - 56925006 | F - 11.11% | TRUE | TRUE |
| 8 | 56792372 - 56925006 | | TRUE | TRUE |
| X | 123094062 - 123556514 | | TRUE | FALSE |
| X | 123094062 - 123556514 | F - 11.54% | TRUE | TRUE |
| X | 123094062 - 123556514 | | TRUE | TRUE |
| X | 123094062 - 123556514 | F - 30.77% | TRUE | TRUE |
| X | 123094062 - 123556514 | | TRUE | TRUE |
| X | 123094062 - 123556514 | | FALSE | TRUE |
| X | 123094062 - 123556514 | | FALSE | TRUE |
| 10 | 69556427 - 69597937 | | TRUE | FALSE |
| 10 | 69556427 - 69597937 | | TRUE | FALSE |
| 10 | 69556427 - 69597937 | | TRUE | FALSE |
| 10 | 69556427 - 69597937 | F - 37.50% | TRUE | TRUE |
| 10 | 69556427 - 69597937 | | TRUE | TRUE |
| 10 | 69556427 - 69597937 | F - 37.50% | TRUE | TRUE |
| 10 | 69556427 - 69597937 | T - 50.00% | FALSE | TRUE |
| 10 | 69556427 - 69597937 | F - 12.50% | TRUE | TRUE |
| 10 | 69556427 - 69597937 | F - 25.00% | FALSE | TRUE |
| 21 | 47401651 - 47424964 | | TRUE | TRUE |
| 21 | 47401651 - 47424964 | F - 9.09% | TRUE | TRUE |
| 21 | 47401651 - 47424964 | F - 9.09% | TRUE | TRUE |
| 21 | 47401651 - 47424964 | F - 9.09% | TRUE | TRUE |
| 21 | 47401651 - 47424964 | F - 9.09% | TRUE | TRUE |
| 21 | 43159529 - 43187266 | | TRUE | FALSE |
| 21 | 43159529 - 43187266 | F - 14.29% | TRUE | TRUE |
| 21 | 43159529 - 43187266 | T - 100.00% | TRUE | TRUE |
| 21 | 43159529 - 43187266 | | FALSE | TRUE |
| 21 | 43159529 - 43187266 | | FALSE | TRUE |
| 21 | 43159529 - 43187266 | F - 14.29% | TRUE | TRUE |
| 21 | 43159529 - 43187266 | T - 100.00% | TRUE | TRUE |
| 21 | 43159529 - 43187266 | | FALSE | TRUE |
| 21 | 43159529 - 43187266 | T - 100.00% | TRUE | TRUE |
| 21 | 43159529 - 43187266 | | FALSE | TRUE |
| X | 68048821 - 68066029 | | TRUE | TRUE |
| X | 68048821 - 68066029 | T - 80.00% | TRUE | TRUE |
| X | 68048821 - 68066029 | | TRUE | TRUE |
| X | 68048821 - 68066029 | | TRUE | TRUE |
| X | 68048821 - 68066029 | T - 60.00% | TRUE | FALSE |
| X | 68048821 - 68066029 | | TRUE | TRUE |
| X | 68048821 - 68066029 | | FALSE | TRUE |
| 16 | 47115431 - 47177936 | T - 60.00% | TRUE | TRUE |
| 16 | 47115431 - 47177936 | T - 80.00% | TRUE | TRUE |
| 16 | 47115431 - 47177936 | | FALSE | TRUE |
| 16 | 47115431 - 47177936 | | TRUE | TRUE |
| 19 | 43757434 - 43773682 | | TRUE | TRUE |
| 19 | 43757434 - 43773682 | F - 16.67% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 19 | 43757434 - 43773682 | | FALSE | TRUE |
| 19 | 43757434 - 43773682 | | TRUE | TRUE |
| 19 | 43757434 - 43773682 | | FALSE | TRUE |
| 19 | 43757434 - 43773682 | T - 66.67% | TRUE | TRUE |
| 19 | 43757434 - 43773682 | T - 91.67% | TRUE | TRUE |
| 19 | 43757434 - 43773682 | T - 66.67% | TRUE | TRUE |
| 19 | 43757434 - 43773682 | T - 58.33% | TRUE | TRUE |
| 19 | 43757434 - 43773682 | T - 91.67% | TRUE | TRUE |
| 19 | 43757434 - 43773682 | | TRUE | TRUE |
| 19 | 43757434 - 43773682 | | FALSE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | F - 7.69% | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | F - 46.15% | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | F - 23.08% | FALSE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | F - 38.46% | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | | TRUE | TRUE |
| 6_mann_hap4 | 2713997 - 2730446 | | FALSE | TRUE |
| 11 | 110447766 - 110583912 | | TRUE | FALSE |
| 11 | 110447766 - 110583912 | F - 18.18% | FALSE | TRUE |
| 11 | 110447766 - 110583912 | F - 27.27% | FALSE | TRUE |
| 11 | 110447766 - 110583912 | F - 9.09% | TRUE | TRUE |
| 1 | 79085607 - 79111830 | | TRUE | FALSE |
| 1 | 79085607 - 79111830 | | TRUE | TRUE |
| 1 | 79085607 - 79111830 | F - 6.67% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 5.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 5.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 5.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 5.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 10.00% | FALSE | TRUE |
| 6 | 167342992 - 167370679 | | FALSE | TRUE |
| 6 | 167342992 - 167370679 | F - 5.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 10.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 10.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | T - 70.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | | FALSE | TRUE |
| 6 | 167342992 - 167370679 | T - 65.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 15.00% | FALSE | TRUE |
| 6 | 167342992 - 167370679 | | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 5.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | F - 15.00% | TRUE | TRUE |
| 6 | 167342992 - 167370679 | | FALSE | TRUE |
| 6 | 167342992 - 167370679 | | TRUE | TRUE |
| 6 | 167342992 - 167370679 | | TRUE | TRUE |
| 6 | 167342992 - 167370679 | | FALSE | TRUE |
| 1 | 84330711 - 84464833 | | TRUE | TRUE |
| 1 | 84330711 - 84464833 | F - 13.04% | TRUE | FALSE |
| 1 | 84330711 - 84464833 | | TRUE | TRUE |
| 1 | 84330711 - 84464833 | F - 43.48% | FALSE | TRUE |
| 1 | 84330711 - 84464833 | T - 56.52% | TRUE | TRUE |
| 1 | 84330711 - 84464833 | F - 17.39% | FALSE | TRUE |
| 1 | 84330711 - 84464833 | F - 13.04% | FALSE | TRUE |
| 1 | 84330711 - 84464833 | F - 13.04% | TRUE | TRUE |
| 1 | 84330711 - 84464833 | T - 60.87% | TRUE | TRUE |
| 1 | 84330711 - 84464833 | F - 8.70% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 1 | 84330711 - 84464833 | F - 13.04% | FALSE | TRUE |
| 1 | 84330711 - 84464833 | F - 4.35% | TRUE | TRUE |
| 1 | 84330711 - 84464833 | | TRUE | TRUE |
| 1 | 84330711 - 84464833 | | FALSE | TRUE |
| 2 | 113969099 - 114024587 | | TRUE | FALSE |
| 2 | 113969099 - 114024587 | F - 5.56% | TRUE | TRUE |
| 2 | 113969099 - 114024587 | | FALSE | TRUE |
| 2 | 113969099 - 114024587 | F - 44.44% | TRUE | TRUE |
| 2 | 113969099 - 114024587 | | TRUE | TRUE |
| 2 | 113969099 - 114024587 | F - 5.56% | TRUE | TRUE |
| 2 | 113969099 - 114024587 | F - 5.56% | TRUE | TRUE |
| 2 | 113969099 - 114024587 | F - 16.67% | TRUE | TRUE |
| 2 | 113969099 - 114024587 | | TRUE | TRUE |
| 2 | 113969099 - 114024587 | | TRUE | TRUE |
| 2 | 113969099 - 114024587 | | FALSE | TRUE |
| 6 | 37321748 - 37362514 | F - 33.33% | TRUE | TRUE |
| 6 | 37321748 - 37362514 | | TRUE | TRUE |
| 6 | 37321748 - 37362514 | | TRUE | TRUE |
| 19 | 52839498 - 52871031 | | TRUE | FALSE |
| 19 | 52839498 - 52871031 | T - 100.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | T - 90.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 90.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | F - 40.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 75.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | F - 40.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 95.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | T - 85.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | F - 40.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | | TRUE | TRUE |
| 6 | 133561736 - 133853258 | T - 85.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 75.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | F - 5.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 60.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 55.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | T - 65.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | F - 45.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | | TRUE | TRUE |
| 6 | 133561736 - 133853258 | T - 70.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | T - 70.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | F - 40.00% | TRUE | FALSE |
| 6 | 133561736 - 133853258 | F - 5.00% | TRUE | TRUE |
| 6 | 133561736 - 133853258 | | TRUE | TRUE |
| 6 | 133561736 - 133853258 | | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | FALSE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | FALSE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | FALSE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | T - 77.78% | FALSE | TRUE |

| | | | | |
|-------------|-------------------------|------------|-------|-------|
| 6_mann_hap4 | 4587774 - 4617591 | F - 44.44% | FALSE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | FALSE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | F - 44.44% | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | TRUE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | FALSE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | FALSE | TRUE |
| 6_mann_hap4 | 4587774 - 4617591 | | FALSE | TRUE |
| | 2 157291802 - 157470247 | | TRUE | TRUE |
| | 2 157291802 - 157470247 | | FALSE | TRUE |
| | 2 157291802 - 157470247 | F - 15.00% | TRUE | TRUE |
| | 2 157291802 - 157470247 | F - 40.00% | TRUE | FALSE |
| | 2 157291802 - 157470247 | F - 15.00% | TRUE | TRUE |
| | 2 157291802 - 157470247 | F - 15.00% | TRUE | TRUE |
| | 2 157291802 - 157470247 | F - 5.00% | FALSE | TRUE |
| | 2 157291802 - 157470247 | | TRUE | TRUE |
| | 2 157291802 - 157470247 | | FALSE | TRUE |
| | 2 157291802 - 157470247 | | TRUE | TRUE |
| | 7 95034174 - 95064510 | T - 65.22% | TRUE | FALSE |
| | 7 95034174 - 95064510 | | TRUE | TRUE |
| | 7 95034174 - 95064510 | F - 4.35% | TRUE | TRUE |
| | 7 95034174 - 95064510 | | TRUE | TRUE |
| | 7 95034174 - 95064510 | F - 4.35% | TRUE | TRUE |
| | 7 95034174 - 95064510 | T - 60.87% | TRUE | TRUE |
| | 7 95034174 - 95064510 | | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | FALSE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | FALSE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | FALSE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | F - 44.44% | FALSE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | FALSE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | F - 44.44% | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | TRUE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | FALSE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | FALSE | TRUE |
| 6_ssto_hap7 | 4610625 - 4637414 | | FALSE | TRUE |
| | 7 87563458 - 87832204 | T - 81.82% | TRUE | TRUE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | T - 77.27% | TRUE | FALSE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | F - 27.27% | TRUE | FALSE |
| | 7 87563458 - 87832204 | T - 81.82% | TRUE | TRUE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | T - 68.18% | TRUE | TRUE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | | TRUE | TRUE |
| | 7 87563458 - 87832204 | T - 77.27% | TRUE | TRUE |
| | 7 87563458 - 87832204 | F - 40.91% | TRUE | FALSE |
| | 7 87563458 - 87832204 | | TRUE | TRUE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | | TRUE | FALSE |
| | 7 87563458 - 87832204 | T - 68.18% | TRUE | FALSE |
| | 7 87563458 - 87832204 | F - 13.64% | TRUE | TRUE |
| | 7 87563458 - 87832204 | T - 59.09% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 7 | 87563458 - 87832204 | | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | FALSE |
| 7 | 87563458 - 87832204 | T - 59.09% | TRUE | FALSE |
| 7 | 87563458 - 87832204 | | TRUE | FALSE |
| 7 | 87563458 - 87832204 | T - 59.09% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | TRUE |
| 7 | 87563458 - 87832204 | T - 68.18% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | FALSE |
| 7 | 87563458 - 87832204 | T - 77.27% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | FALSE |
| 7 | 87563458 - 87832204 | | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | FALSE |
| 7 | 87563458 - 87832204 | F - 4.55% | TRUE | FALSE |
| 7 | 87563458 - 87832204 | | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | TRUE |
| 7 | 87563458 - 87832204 | F - 4.55% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | F - 22.73% | TRUE | FALSE |
| 7 | 87563458 - 87832204 | T - 68.18% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | F - 4.55% | TRUE | FALSE |
| 7 | 87563458 - 87832204 | T - 63.64% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | F - 9.09% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | F - 36.36% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | FALSE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | FALSE |
| 7 | 87563458 - 87832204 | F - 4.55% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | T - 50.00% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | F - 4.55% | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | TRUE | TRUE |
| 7 | 87563458 - 87832204 | | FALSE | TRUE |
| 22 | 29663998 - 29696515 | | TRUE | TRUE |
| 22 | 29663998 - 29696515 | F - 3.03% | TRUE | TRUE |
| 10 | 5029967 - 5060225 | T - 72.73% | TRUE | TRUE |
| 10 | 5029967 - 5060225 | F - 36.36% | TRUE | TRUE |
| 10 | 5029967 - 5060225 | F - 36.36% | FALSE | TRUE |
| 10 | 5029967 - 5060225 | F - 45.45% | TRUE | TRUE |
| 10 | 5029967 - 5060225 | | TRUE | TRUE |
| 10 | 5029967 - 5060225 | F - 18.18% | TRUE | TRUE |
| 5 | 170846660 - 170884630 | T - 66.67% | TRUE | TRUE |
| 5 | 170846660 - 170884630 | T - 100.00% | TRUE | FALSE |
| 5 | 170846660 - 170884630 | T - 100.00% | TRUE | TRUE |
| 5 | 170846660 - 170884630 | | TRUE | TRUE |
| 5 | 170846660 - 170884630 | T - 66.67% | TRUE | TRUE |
| 5 | 170846660 - 170884630 | T - 100.00% | TRUE | TRUE |
| 12 | 54402832 - 54407570 | | TRUE | TRUE |
| 12 | 54402832 - 54407570 | F - 25.00% | TRUE | TRUE |
| 12 | 54402832 - 54407570 | F - 25.00% | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | FALSE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | FALSE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | FALSE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | F - 44.44% | FALSE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | FALSE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | F - 44.44% | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | TRUE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | FALSE | TRUE |

| | | | | |
|------------|---------------------|------------|-------|-------|
| 6_cox_hap2 | 4574295 - 4604112 | | FALSE | TRUE |
| 6_cox_hap2 | 4574295 - 4604112 | | FALSE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | FALSE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | FALSE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | FALSE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | F - 44.44% | FALSE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | FALSE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | F - 44.44% | TRUE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | TRUE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | FALSE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | FALSE | TRUE |
| 6_dbb_hap3 | 4411765 - 4441583 | | FALSE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | FALSE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | FALSE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | FALSE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | F - 44.44% | FALSE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | FALSE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | F - 44.44% | TRUE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | TRUE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | FALSE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | FALSE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | FALSE | TRUE |
| 6_mcf_hap5 | 4604224 - 4634040 | | FALSE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | FALSE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | FALSE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | FALSE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | F - 44.44% | FALSE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | FALSE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | F - 44.44% | TRUE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | TRUE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | FALSE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | FALSE | TRUE |
| 6_qbl_hap6 | 4362681 - 4392498 | | FALSE | TRUE |
| 3 | 13521224 - 13547924 | | TRUE | FALSE |
| 3 | 13521224 - 13547924 | | TRUE | FALSE |
| 3 | 13521224 - 13547924 | | TRUE | TRUE |
| 3 | 13521224 - 13547924 | | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 8.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 4.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 4.00% | FALSE | TRUE |
| 3 | 13521224 - 13547924 | F - 36.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 8.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 16.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 44.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 40.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | F - 32.00% | TRUE | TRUE |

| | | | | |
|------------|---------------------|-------------|-------|-------|
| 3 | 13521224 - 13547924 | F - 48.00% | TRUE | TRUE |
| 3 | 13521224 - 13547924 | | TRUE | TRUE |
| 3 | 13521224 - 13547924 | | FALSE | TRUE |
| 3 | 13521224 - 13547924 | T - 68.00% | FALSE | TRUE |
| 5 | 57749809 - 57756087 | F - 5.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 10.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 10.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 5.00% | FALSE | TRUE |
| 5 | 57749809 - 57756087 | | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 5.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 5.00% | FALSE | TRUE |
| 5 | 57749809 - 57756087 | F - 15.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 30.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 5.00% | FALSE | TRUE |
| 5 | 57749809 - 57756087 | F - 5.00% | FALSE | TRUE |
| 5 | 57749809 - 57756087 | | FALSE | TRUE |
| 5 | 57749809 - 57756087 | F - 15.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 10.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 40.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 20.00% | TRUE | TRUE |
| 5 | 57749809 - 57756087 | F - 15.00% | FALSE | TRUE |
| 5 | 57749809 - 57756087 | F - 35.00% | TRUE | TRUE |
| 7 | 72983277 - 72993121 | | TRUE | FALSE |
| 7 | 72983277 - 72993121 | F - 3.57% | TRUE | TRUE |
| 7 | 72983277 - 72993121 | | TRUE | TRUE |
| 7 | 72983277 - 72993121 | F - 7.14% | FALSE | TRUE |
| 7 | 72983277 - 72993121 | F - 3.57% | FALSE | TRUE |
| 7 | 72983277 - 72993121 | F - 14.29% | TRUE | TRUE |
| 7 | 72983277 - 72993121 | | TRUE | TRUE |
| 7 | 72983277 - 72993121 | F - 46.43% | TRUE | TRUE |
| 7 | 72983277 - 72993121 | | TRUE | TRUE |
| 14 | 23527773 - 23564823 | F - 5.26% | TRUE | TRUE |
| 14 | 23527773 - 23564823 | | TRUE | TRUE |
| 14 | 23527773 - 23564823 | | TRUE | TRUE |
| 14 | 23527773 - 23564823 | | FALSE | TRUE |
| 16 | 31711911 - 31718758 | | TRUE | TRUE |
| 16 | 31711911 - 31718758 | | TRUE | TRUE |
| 16 | 31711911 - 31718758 | | TRUE | TRUE |
| 16 | 31711911 - 31718758 | F - 16.67% | TRUE | TRUE |
| 16 | 31711911 - 31718758 | F - 16.67% | TRUE | TRUE |
| 16 | 31711911 - 31718758 | T - 66.67% | FALSE | TRUE |
| 6_dbb_hap3 | 1150399 - 1153860 | F - 33.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1150399 - 1153860 | F - 33.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1150399 - 1153860 | | TRUE | TRUE |
| 6_dbb_hap3 | 1150399 - 1153860 | | FALSE | TRUE |
| 6_dbb_hap3 | 1150399 - 1153860 | F - 33.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1150399 - 1153860 | T - 100.00% | TRUE | TRUE |
| 1 | 7975931 - 8003225 | | TRUE | TRUE |
| 1 | 7975931 - 8003225 | F - 20.00% | TRUE | TRUE |
| 1 | 7975931 - 8003225 | | TRUE | TRUE |
| 1 | 7975931 - 8003225 | T - 60.00% | TRUE | TRUE |
| 1 | 7975931 - 8003225 | T - 100.00% | TRUE | TRUE |
| 1 | 7975931 - 8003225 | T - 60.00% | FALSE | TRUE |
| 1 | 7975931 - 8003225 | | FALSE | TRUE |
| 1 | 7975931 - 8003225 | T - 80.00% | TRUE | TRUE |
| 2 | 217730 - 266398 | | TRUE | TRUE |
| 2 | 217730 - 266398 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 217730 - 266398 | F - 5.26% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 7.89% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 7.89% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 5.26% | TRUE | TRUE |
| 2 | 217730 - 266398 | | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 2.63% | TRUE | TRUE |
| 2 | 217730 - 266398 | T - 52.63% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 2.63% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 10.53% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 2.63% | FALSE | TRUE |
| 2 | 217730 - 266398 | | FALSE | TRUE |
| 2 | 217730 - 266398 | | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 2.63% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 2.63% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 2.63% | TRUE | TRUE |
| 2 | 217730 - 266398 | | FALSE | TRUE |
| 2 | 217730 - 266398 | F - 5.26% | TRUE | TRUE |
| 2 | 217730 - 266398 | F - 7.89% | FALSE | TRUE |
| 2 | 217730 - 266398 | T - 73.68% | TRUE | TRUE |
| 2 | 217730 - 266398 | | FALSE | TRUE |
| 2 | 217730 - 266398 | | TRUE | TRUE |
| 14 | 73704205 - 73741348 | | TRUE | FALSE |
| 14 | 73704205 - 73741348 | T - 80.00% | TRUE | TRUE |
| 14 | 73704205 - 73741348 | T - 66.67% | TRUE | TRUE |
| 14 | 73704205 - 73741348 | | TRUE | FALSE |
| 14 | 73704205 - 73741348 | T - 80.00% | TRUE | FALSE |
| 1 | 142618766 - 142729975 | T - 66.67% | TRUE | TRUE |
| 1 | 142618766 - 142729975 | | FALSE | TRUE |
| 1 | 142618766 - 142729975 | | FALSE | TRUE |
| 1 | 142618766 - 142729975 | | TRUE | TRUE |
| 1 | 142618766 - 142729975 | F - 33.33% | TRUE | TRUE |
| 1 | 142618766 - 142729975 | | TRUE | TRUE |
| 1 | 142618766 - 142729975 | F - 16.67% | TRUE | TRUE |
| 1 | 142618766 - 142729975 | F - 16.67% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | | TRUE | TRUE |
| 2 | 173345568 - 173421324 | F - 20.00% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | F - 20.00% | FALSE | TRUE |
| 2 | 173345568 - 173421324 | F - 20.00% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | F - 20.00% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | F - 40.00% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | T - 80.00% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | F - 20.00% | FALSE | TRUE |
| 2 | 173345568 - 173421324 | T - 60.00% | TRUE | TRUE |
| 2 | 173345568 - 173421324 | | FALSE | TRUE |
| 10 | 11047259 - 11378672 | | TRUE | FALSE |
| 10 | 11047259 - 11378672 | | TRUE | TRUE |
| 10 | 11047259 - 11378672 | | TRUE | TRUE |
| 10 | 11047259 - 11378672 | F - 23.08% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | T - 92.31% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | | TRUE | TRUE |
| 10 | 11047259 - 11378672 | T - 96.15% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | | TRUE | TRUE |
| 10 | 11047259 - 11378672 | F - 34.62% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | F - 15.38% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | | TRUE | TRUE |
| 10 | 11047259 - 11378672 | F - 26.92% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | T - 57.69% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 11047259 - 11378672 | T - 92.31% | TRUE | TRUE |
| 10 | 11047259 - 11378672 | | FALSE | TRUE |
| 15 | 30653443 - 30685864 | | TRUE | TRUE |
| 15 | 30653443 - 30685864 | T - 100.00% | TRUE | TRUE |
| 15 | 30653443 - 30685864 | T - 80.00% | TRUE | TRUE |
| 15 | 30653443 - 30685864 | | TRUE | TRUE |
| 15 | 30653443 - 30685864 | T - 100.00% | TRUE | TRUE |
| 15 | 30653443 - 30685864 | F - 40.00% | TRUE | TRUE |
| 10 | 80703083 - 80828817 | | TRUE | TRUE |
| 10 | 80703083 - 80828817 | | TRUE | FALSE |
| 10 | 80703083 - 80828817 | | TRUE | FALSE |
| 10 | 80703083 - 80828817 | | TRUE | TRUE |
| 10 | 80703083 - 80828817 | | TRUE | TRUE |
| 10 | 80703083 - 80828817 | F - 12.50% | TRUE | TRUE |
| 10 | 80703083 - 80828817 | | TRUE | TRUE |
| 10 | 80703083 - 80828817 | T - 87.50% | TRUE | TRUE |
| 1 | 151336778 - 151345209 | | TRUE | TRUE |
| 1 | 151336778 - 151345209 | F - 28.00% | TRUE | TRUE |
| 1 | 151336778 - 151345209 | F - 4.00% | TRUE | TRUE |
| 1 | 151336778 - 151345209 | F - 4.00% | TRUE | TRUE |
| 1 | 151336778 - 151345209 | F - 28.00% | TRUE | TRUE |
| 1 | 151336778 - 151345209 | | TRUE | TRUE |
| 3 | 40428647 - 40470110 | | TRUE | FALSE |
| 3 | 40428647 - 40470110 | | TRUE | TRUE |
| 3 | 40428647 - 40470110 | T - 100.00% | TRUE | TRUE |
| 3 | 40428647 - 40470110 | | TRUE | FALSE |
| 3 | 40428647 - 40470110 | T - 85.71% | TRUE | TRUE |
| 3 | 40428647 - 40470110 | F - 42.86% | TRUE | TRUE |
| 3 | 40428647 - 40470110 | F - 14.29% | TRUE | TRUE |
| 3 | 40428647 - 40470110 | | TRUE | TRUE |
| 3 | 40428647 - 40470110 | F - 14.29% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | T - 50.00% | TRUE | FALSE |
| 4 | 47596015 - 47840123 | T - 66.67% | TRUE | FALSE |
| 4 | 47596015 - 47840123 | T - 55.56% | TRUE | FALSE |
| 4 | 47596015 - 47840123 | F - 16.67% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | T - 50.00% | TRUE | FALSE |
| 4 | 47596015 - 47840123 | T - 55.56% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | T - 72.22% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | | TRUE | TRUE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | TRUE |
| 4 | 47596015 - 47840123 | T - 50.00% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | F - 11.11% | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | F - 11.11% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | | TRUE | TRUE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | FALSE |
| 4 | 47596015 - 47840123 | | TRUE | TRUE |
| 4 | 47596015 - 47840123 | | TRUE | TRUE |
| 4 | 47596015 - 47840123 | T - 72.22% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | F - 11.11% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | F - 11.11% | TRUE | TRUE |
| 4 | 47596015 - 47840123 | F - 5.56% | TRUE | FALSE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 161475205 - 161493803 | | TRUE | TRUE |
| 1 | 161475205 - 161493803 | T - 55.56% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | F - 16.67% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | T - 61.11% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | F - 5.56% | TRUE | FALSE |
| 1 | 161475205 - 161493803 | F - 5.56% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | | FALSE | TRUE |
| 1 | 161475205 - 161493803 | F - 5.56% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | | TRUE | TRUE |
| 1 | 161475205 - 161493803 | T - 50.00% | FALSE | TRUE |
| 1 | 161475205 - 161493803 | | TRUE | TRUE |
| 1 | 161475205 - 161493803 | T - 61.11% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | T - 77.78% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | | FALSE | TRUE |
| 1 | 161475205 - 161493803 | T - 61.11% | TRUE | TRUE |
| 1 | 161475205 - 161493803 | F - 38.89% | FALSE | TRUE |
| 2 | 63348518 - 64054977 | | TRUE | FALSE |
| 2 | 63348518 - 64054977 | | TRUE | FALSE |
| 2 | 63348518 - 64054977 | | TRUE | TRUE |
| 2 | 63348518 - 64054977 | F - 36.00% | TRUE | TRUE |
| 2 | 63348518 - 64054977 | F - 8.00% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 10.53% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 21.05% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 10.53% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 10.53% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 10.53% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 5.26% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | | TRUE | TRUE |
| 7 | 94023873 - 94060544 | | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 36.84% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 36.84% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 31.58% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 31.58% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 36.84% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 31.58% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 31.58% | TRUE | TRUE |
| 7 | 94023873 - 94060544 | | TRUE | TRUE |
| 7 | 94023873 - 94060544 | F - 15.79% | TRUE | TRUE |
| 2 | 19167729 - 19546509 | | TRUE | FALSE |
| 2 | 19167729 - 19546509 | | TRUE | TRUE |
| 2 | 19167729 - 19546509 | F - 25.00% | TRUE | TRUE |
| 2 | 19167729 - 19546509 | | FALSE | TRUE |
| 2 | 19167729 - 19546509 | T - 75.00% | TRUE | TRUE |
| 2 | 19167729 - 19546509 | F - 25.00% | TRUE | TRUE |
| 2 | 19167729 - 19546509 | | TRUE | TRUE |
| 1 | 14925200 - 15444544 | | TRUE | FALSE |
| 1 | 14925200 - 15444544 | | TRUE | TRUE |
| 1 | 14925200 - 15444544 | F - 13.33% | TRUE | TRUE |
| 1 | 14925200 - 15444544 | F - 13.33% | TRUE | TRUE |
| 1 | 14925200 - 15444544 | F - 33.33% | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 14925200 - 15444544 | | FALSE | TRUE |
| 1 | 14925200 - 15444544 | F - 20.00% | FALSE | TRUE |
| 1 | 14925200 - 15444544 | | TRUE | TRUE |
| 1 | 14925200 - 15444544 | | TRUE | TRUE |
| 1 | 14925200 - 15444544 | F - 13.33% | FALSE | TRUE |
| 1 | 148250245 - 148347506 | | TRUE | FALSE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 1 | 148250245 - 148347506 | F - 2.08% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 1.19% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 9.52% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 1.19% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 10.71% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 1.19% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | FALSE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | FALSE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 3.57% | FALSE | TRUE |
| 4 | 186506598 - 186877870 | F - 9.52% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 11.90% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 13.10% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 2.38% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 5.95% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 20.24% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 1.19% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 5.95% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 8.33% | FALSE | TRUE |
| 4 | 186506598 - 186877870 | F - 1.19% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 8.33% | TRUE | TRUE |
| 4 | 186506598 - 186877870 | F - 7.14% | FALSE | TRUE |
| 4 | 186506598 - 186877870 | F - 1.19% | FALSE | TRUE |
| 4 | 186506598 - 186877870 | | FALSE | TRUE |
| 4 | 186506598 - 186877870 | | FALSE | TRUE |
| 4 | 186506598 - 186877870 | | TRUE | TRUE |
| 6 | 25081295 - 25218698 | | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 26.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 20.00% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 13.33% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 26.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 20.00% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 13.33% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 6 | 25081295 - 25218698 | F - 13.33% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 6.67% | TRUE | TRUE |
| 6 | 25081295 - 25218698 | F - 20.00% | FALSE | TRUE |
| 6 | 25081295 - 25218698 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | FALSE |
| 8 | 68864348 - 69149265 | | TRUE | FALSE |
| 8 | 68864348 - 69149265 | F - 27.27% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | F - 18.18% | TRUE | FALSE |
| 8 | 68864348 - 69149265 | F - 27.27% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | F - 27.27% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | F - 27.27% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | F - 27.27% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | F - 36.36% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | F - 45.45% | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | TRUE | TRUE |
| 8 | 68864348 - 69149265 | | FALSE | TRUE |
| 15 | 74209809 - 74220589 | | TRUE | TRUE |
| 15 | 74209809 - 74220589 | F - 40.00% | TRUE | TRUE |
| 15 | 74209809 - 74220589 | F - 20.00% | TRUE | TRUE |
| 15 | 74209809 - 74220589 | F - 40.00% | TRUE | TRUE |
| 15 | 74209809 - 74220589 | | FALSE | TRUE |
| 21 | 17102344 - 17252377 | | TRUE | TRUE |
| 21 | 17102344 - 17252377 | T - 53.85% | TRUE | TRUE |
| 17 | 78010431 - 78074412 | | TRUE | TRUE |
| 17 | 78010431 - 78074412 | F - 10.00% | TRUE | TRUE |
| 17 | 78010431 - 78074412 | | TRUE | FALSE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 15.38% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 7.69% | TRUE | FALSE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 7.69% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 30.77% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 15.38% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 38.46% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 38.46% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 15.38% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | T - 53.85% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 23.08% | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | | TRUE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | F - 46.15% | FALSE | TRUE |
| 6_qbl_hap6 | 1261702 - 1322419 | | FALSE | TRUE |
| X | 149861435 - 149933576 | | TRUE | TRUE |
| X | 149861435 - 149933576 | F - 19.23% | TRUE | TRUE |
| X | 149861435 - 149933576 | F - 46.15% | TRUE | TRUE |
| X | 149861435 - 149933576 | F - 15.38% | TRUE | TRUE |
| X | 149861435 - 149933576 | F - 46.15% | TRUE | TRUE |
| X | 149861435 - 149933576 | F - 3.85% | TRUE | TRUE |
| X | 149861435 - 149933576 | | TRUE | TRUE |
| X | 149861435 - 149933576 | F - 42.31% | TRUE | TRUE |
| 7 | 69063905 - 70258054 | | TRUE | FALSE |
| 7 | 69063905 - 70258054 | F - 4.17% | TRUE | TRUE |
| 7 | 69063905 - 70258054 | | TRUE | TRUE |
| 22 | 17565844 - 17596584 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 22 | 17565844 - 17596584 | T - 50.00% | TRUE | TRUE |
| 22 | 17565844 - 17596584 | | TRUE | TRUE |
| 22 | 17565844 - 17596584 | T - 66.67% | TRUE | TRUE |
| 22 | 17565844 - 17596584 | T - 100.00% | TRUE | TRUE |
| 5 | 59783540 - 59843484 | | TRUE | TRUE |
| 5 | 59783540 - 59843484 | | TRUE | TRUE |
| 5 | 59783540 - 59843484 | F - 28.57% | FALSE | TRUE |
| 5 | 59783540 - 59843484 | F - 28.57% | TRUE | TRUE |
| 5 | 59783540 - 59843484 | F - 28.57% | FALSE | TRUE |
| 7 | 98475556 - 98610866 | | TRUE | TRUE |
| 7 | 98475556 - 98610866 | F - 12.50% | TRUE | TRUE |
| 7 | 98475556 - 98610866 | F - 37.50% | TRUE | TRUE |
| 7 | 98475556 - 98610866 | | TRUE | TRUE |
| 7 | 98475556 - 98610866 | | TRUE | TRUE |
| 7 | 98475556 - 98610866 | | FALSE | TRUE |
| 11 | 86656717 - 86666440 | | FALSE | TRUE |
| 11 | 86656717 - 86666440 | T - 50.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | | TRUE | FALSE |
| 5 | 152869175 - 153193429 | | TRUE | FALSE |
| 5 | 152869175 - 153193429 | F - 40.00% | TRUE | FALSE |
| 5 | 152869175 - 153193429 | F - 4.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | F - 4.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | | TRUE | TRUE |
| 5 | 152869175 - 153193429 | | TRUE | FALSE |
| 5 | 152869175 - 153193429 | | TRUE | TRUE |
| 5 | 152869175 - 153193429 | F - 4.00% | FALSE | TRUE |
| 5 | 152869175 - 153193429 | F - 44.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | F - 4.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | T - 64.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | | FALSE | TRUE |
| 5 | 152869175 - 153193429 | T - 56.00% | TRUE | TRUE |
| 5 | 152869175 - 153193429 | | FALSE | TRUE |
| 7 | 46009256 - 46019790 | T - 100.00% | TRUE | TRUE |
| 7 | 46009256 - 46019790 | | TRUE | TRUE |
| 2 | 112895962 - 112988430 | | TRUE | TRUE |
| 2 | 112895962 - 112988430 | F - 9.09% | TRUE | TRUE |
| 2 | 112895962 - 112988430 | F - 9.09% | FALSE | TRUE |
| 2 | 112895962 - 112988430 | | FALSE | TRUE |
| 2 | 112895962 - 112988430 | F - 9.09% | TRUE | TRUE |
| 2 | 112895962 - 112988430 | F - 9.09% | TRUE | TRUE |
| 2 | 112895962 - 112988430 | | FALSE | TRUE |
| 2 | 112895962 - 112988430 | F - 36.36% | FALSE | TRUE |
| 2 | 112895962 - 112988430 | F - 9.09% | TRUE | TRUE |
| 2 | 112895962 - 112988430 | | TRUE | TRUE |
| 2 | 112895962 - 112988430 | | FALSE | TRUE |
| 2 | 112895962 - 112988430 | | FALSE | TRUE |
| 2 | 112895962 - 112988430 | T - 63.64% | TRUE | TRUE |
| 2 | 112895962 - 112988430 | T - 54.55% | TRUE | TRUE |
| 3 | 141663270 - 141868386 | | TRUE | FALSE |
| 3 | 141663270 - 141868386 | | FALSE | TRUE |
| 3 | 141663270 - 141868386 | | TRUE | TRUE |
| 3 | 141663270 - 141868386 | F - 11.43% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | TRUE | TRUE |
| 20 | 34146507 - 34195484 | F - 20.00% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | F - 20.00% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | TRUE | TRUE |
| 20 | 34146507 - 34195484 | F - 40.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 20 | 34146507 - 34195484 | F - 40.00% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | F - 20.00% | FALSE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | F - 40.00% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | F - 40.00% | FALSE | TRUE |
| 20 | 34146507 - 34195484 | F - 20.00% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | | TRUE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 20 | 34146507 - 34195484 | T - 60.00% | TRUE | TRUE |
| 20 | 34146507 - 34195484 | F - 40.00% | FALSE | TRUE |
| 20 | 34146507 - 34195484 | | FALSE | TRUE |
| 19 | 53893046 - 53930574 | | TRUE | TRUE |
| 19 | 53893046 - 53930574 | T - 87.50% | TRUE | TRUE |
| 19 | 53893046 - 53930574 | | FALSE | TRUE |
| 1 | 95558073 - 95663163 | F - 12.50% | TRUE | TRUE |
| 1 | 95558073 - 95663163 | F - 12.50% | TRUE | TRUE |
| 1 | 95558073 - 95663163 | | TRUE | TRUE |
| 1 | 95558073 - 95663163 | T - 62.50% | TRUE | TRUE |
| 1 | 95558073 - 95663163 | F - 12.50% | TRUE | TRUE |
| 1 | 95558073 - 95663163 | | FALSE | TRUE |
| 1 | 95558073 - 95663163 | | FALSE | TRUE |
| 1 | 95558073 - 95663163 | T - 50.00% | TRUE | TRUE |
| 7 | 158649269 - 158749438 | | TRUE | TRUE |
| 7 | 158649269 - 158749438 | | TRUE | TRUE |
| 7 | 158649269 - 158749438 | F - 33.33% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | FALSE |
| 7 | 77646374 - 79082890 | | TRUE | FALSE |
| 7 | 77646374 - 79082890 | T - 58.82% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | T - 52.94% | TRUE | FALSE |
| 7 | 77646374 - 79082890 | | TRUE | FALSE |
| 7 | 77646374 - 79082890 | F - 47.06% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 41.18% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | FALSE |
| 7 | 77646374 - 79082890 | F - 5.88% | TRUE | FALSE |
| 7 | 77646374 - 79082890 | F - 47.06% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 17.65% | TRUE | FALSE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | T - 58.82% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 35.29% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 11.76% | TRUE | FALSE |
| 7 | 77646374 - 79082890 | F - 5.88% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 35.29% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | T - 64.71% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 29.41% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | FALSE | TRUE |
| 7 | 77646374 - 79082890 | F - 5.88% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 77646374 - 79082890 | F - 17.65% | TRUE | FALSE |
| 7 | 77646374 - 79082890 | F - 5.88% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | F - 29.41% | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | TRUE | TRUE |
| 7 | 77646374 - 79082890 | | FALSE | TRUE |
| 4 | 89444961 - 89629693 | | TRUE | TRUE |
| 4 | 89444961 - 89629693 | | TRUE | FALSE |
| 4 | 89444961 - 89629693 | F - 5.88% | TRUE | TRUE |
| 1 | 2487078 - 2497061 | | TRUE | FALSE |
| 1 | 2487078 - 2497061 | | TRUE | FALSE |
| 1 | 2487078 - 2497061 | F - 26.09% | TRUE | TRUE |
| 1 | 2487078 - 2497061 | T - 56.52% | TRUE | TRUE |
| 1 | 2487078 - 2497061 | T - 52.17% | FALSE | TRUE |
| 1 | 2487078 - 2497061 | | FALSE | TRUE |
| 1 | 2487078 - 2497061 | | TRUE | TRUE |
| 1 | 2487078 - 2497061 | | FALSE | TRUE |
| 1 | 147228332 - 147245484 | | TRUE | FALSE |
| 1 | 147228332 - 147245484 | T - 66.67% | TRUE | TRUE |
| 1 | 147228332 - 147245484 | F - 33.33% | TRUE | FALSE |
| 1 | 147228332 - 147245484 | T - 66.67% | TRUE | FALSE |
| 1 | 147228332 - 147245484 | T - 50.00% | TRUE | TRUE |
| 1 | 147228332 - 147245484 | F - 16.67% | TRUE | TRUE |
| 1 | 147228332 - 147245484 | F - 16.67% | TRUE | TRUE |
| 2 | 46926091 - 46990268 | F - 33.33% | FALSE | TRUE |
| 2 | 46926091 - 46990268 | | TRUE | TRUE |
| 2 | 46926091 - 46990268 | | TRUE | TRUE |
| 2 | 46926091 - 46990268 | | FALSE | TRUE |
| 2 | 46926091 - 46990268 | F - 16.67% | TRUE | TRUE |
| 17 | 18012020 - 18083116 | | TRUE | FALSE |
| 17 | 18012020 - 18083116 | | TRUE | TRUE |
| 17 | 18012020 - 18083116 | F - 27.78% | TRUE | FALSE |
| 17 | 18012020 - 18083116 | | TRUE | FALSE |
| 17 | 18012020 - 18083116 | | FALSE | TRUE |
| 21 | 44834395 - 44847008 | | TRUE | FALSE |
| 21 | 44834395 - 44847008 | | TRUE | FALSE |
| 21 | 44834395 - 44847008 | T - 100.00% | TRUE | TRUE |
| 21 | 44834395 - 44847008 | T - 75.00% | TRUE | TRUE |
| 21 | 44834395 - 44847008 | | TRUE | TRUE |
| 21 | 44834395 - 44847008 | | TRUE | TRUE |
| 21 | 44834395 - 44847008 | | TRUE | FALSE |
| 21 | 44834395 - 44847008 | | TRUE | TRUE |
| 21 | 44834395 - 44847008 | | TRUE | TRUE |
| 21 | 44834395 - 44847008 | T - 75.00% | TRUE | TRUE |
| 21 | 44834395 - 44847008 | | TRUE | TRUE |
| 19 | 11649579 - 11661138 | | TRUE | TRUE |
| 19 | 11649579 - 11661138 | | TRUE | TRUE |
| 19 | 11649579 - 11661138 | | TRUE | TRUE |
| 19 | 11649579 - 11661138 | T - 100.00% | TRUE | TRUE |
| 19 | 11649579 - 11661138 | T - 71.43% | TRUE | TRUE |
| 19 | 11649579 - 11661138 | T - 71.43% | TRUE | TRUE |
| 19 | 11649579 - 11661138 | | FALSE | TRUE |
| 19 | 11649579 - 11661138 | F - 14.29% | TRUE | TRUE |
| 6 | 160100096 - 160114360 | T - 50.00% | TRUE | TRUE |
| 6 | 160100096 - 160114360 | F - 44.44% | TRUE | TRUE |
| 6 | 160100096 - 160114360 | F - 5.56% | FALSE | TRUE |
| 6 | 160100096 - 160114360 | | TRUE | TRUE |
| 6 | 160100096 - 160114360 | F - 22.22% | FALSE | TRUE |
| 6 | 160100096 - 160114360 | F - 16.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 6 | 160100096 - 160114360 | | FALSE | TRUE |
| 6 | 160100096 - 160114360 | F - 11.11% | TRUE | TRUE |
| 6 | 160100096 - 160114360 | F - 22.22% | TRUE | TRUE |
| 8 | 22402499 - 22433301 | | TRUE | TRUE |
| 8 | 22402499 - 22433301 | | TRUE | TRUE |
| 8 | 22402499 - 22433301 | F - 3.45% | TRUE | TRUE |
| 8 | 22402499 - 22433301 | F - 34.48% | TRUE | TRUE |
| 8 | 22402499 - 22433301 | F - 27.59% | TRUE | TRUE |
| 8 | 22402499 - 22433301 | F - 37.93% | TRUE | TRUE |
| 8 | 22402499 - 22433301 | F - 20.69% | TRUE | TRUE |
| 8 | 22402499 - 22433301 | F - 10.34% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | FALSE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | FALSE |
| 14 | 64319683 - 64693167 | F - 9.09% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 6.06% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 39.39% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 39.39% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | FALSE | TRUE |
| 14 | 64319683 - 64693167 | F - 48.48% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 6.06% | FALSE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 3.03% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 30.30% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | FALSE | TRUE |
| 14 | 64319683 - 64693167 | F - 9.09% | FALSE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 33.33% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 24.24% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 39.39% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | T - 72.73% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 18.18% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 42.42% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 14 | 64319683 - 64693167 | F - 48.48% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 33.33% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 39.39% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | TRUE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 14 | 64319683 - 64693167 | F - 42.42% | TRUE | TRUE |
| 14 | 64319683 - 64693167 | F - 42.42% | FALSE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 14 | 64319683 - 64693167 | | FALSE | TRUE |
| 1 | 156711899 - 156736717 | | TRUE | TRUE |
| 1 | 156711899 - 156736717 | F - 15.79% | TRUE | TRUE |
| 1 | 156711899 - 156736717 | | FALSE | TRUE |
| 6 | 33032346 - 33048555 | | TRUE | FALSE |
| 6 | 33032346 - 33048555 | | TRUE | FALSE |
| 6 | 33032346 - 33048555 | F - 14.29% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | F - 7.14% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | T - 50.00% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | T - 85.71% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | T - 50.00% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | | TRUE | TRUE |
| 6 | 33032346 - 33048555 | | TRUE | TRUE |
| 6 | 33032346 - 33048555 | F - 35.71% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | F - 35.71% | TRUE | TRUE |
| 6 | 33032346 - 33048555 | | FALSE | TRUE |
| 10 | 38090447 - 38147034 | | TRUE | FALSE |
| 10 | 38090447 - 38147034 | F - 38.46% | TRUE | TRUE |
| 10 | 38090447 - 38147034 | F - 23.08% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | | TRUE | FALSE |
| 6_cox_hap2 | 4476526 - 4492734 | | TRUE | FALSE |
| 6_cox_hap2 | 4476526 - 4492734 | F - 14.29% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | F - 7.14% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | T - 50.00% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | T - 85.71% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | T - 50.00% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | F - 42.86% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | F - 42.86% | TRUE | TRUE |
| 6_cox_hap2 | 4476526 - 4492734 | | FALSE | TRUE |
| X | 154289897 - 154376212 | | TRUE | TRUE |
| X | 154289897 - 154376212 | | TRUE | TRUE |
| X | 154289897 - 154376212 | | TRUE | TRUE |
| X | 154289897 - 154376212 | T - 60.00% | TRUE | TRUE |
| 6 | 134273308 - 134308638 | | TRUE | TRUE |
| 6 | 134273308 - 134308638 | | TRUE | FALSE |
| 6 | 134273308 - 134308638 | F - 9.09% | TRUE | FALSE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | FALSE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 29.41% | TRUE | FALSE |
| 10 | 32735041 - 33171802 | F - 29.41% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | FALSE |
| 10 | 32735041 - 33171802 | F - 20.59% | TRUE | FALSE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 14.71% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 14.71% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 17.65% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 29.41% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 2.94% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 2.94% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 32.35% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | T - 52.94% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 2.94% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 32.35% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 32.35% | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 17.65% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 14.71% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 32.35% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | FALSE | TRUE |
| 10 | 32735041 - 33171802 | F - 44.12% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 2.94% | FALSE | TRUE |
| 10 | 32735041 - 33171802 | | TRUE | TRUE |
| 10 | 32735041 - 33171802 | T - 52.94% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 38.24% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | F - 35.29% | TRUE | TRUE |
| 10 | 32735041 - 33171802 | | FALSE | TRUE |
| 17 | 47865917 - 47906458 | | TRUE | TRUE |
| 17 | 47865917 - 47906458 | | TRUE | TRUE |
| 17 | 47865917 - 47906458 | F - 3.33% | TRUE | TRUE |
| 17 | 47865917 - 47906458 | | TRUE | TRUE |
| 17 | 47865917 - 47906458 | | TRUE | TRUE |
| 17 | 47865917 - 47906458 | | TRUE | TRUE |
| 17 | 47865917 - 47906458 | | TRUE | TRUE |
| 20 | 10618332 - 10654694 | | FALSE | TRUE |
| 20 | 10618332 - 10654694 | F - 12.50% | TRUE | TRUE |
| 20 | 10618332 - 10654694 | T - 62.50% | TRUE | TRUE |
| 20 | 10618332 - 10654694 | F - 12.50% | TRUE | TRUE |
| 20 | 10618332 - 10654694 | | FALSE | TRUE |
| 20 | 10618332 - 10654694 | F - 25.00% | FALSE | TRUE |
| 20 | 10618332 - 10654694 | F - 37.50% | TRUE | TRUE |
| 20 | 10618332 - 10654694 | | FALSE | TRUE |
| 20 | 10618332 - 10654694 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 20 | 10618332 - 10654694 | | TRUE | TRUE |
| 5 | 179224597 - 179233952 | | TRUE | TRUE |
| 5 | 179224597 - 179233952 | | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 7.14% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 10.71% | FALSE | TRUE |
| 5 | 179224597 - 179233952 | F - 17.86% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 39.29% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 3.57% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 14.29% | FALSE | TRUE |
| 5 | 179224597 - 179233952 | | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 3.57% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 3.57% | FALSE | TRUE |
| 5 | 179224597 - 179233952 | F - 3.57% | FALSE | TRUE |
| 5 | 179224597 - 179233952 | F - 3.57% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 14.29% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 10.71% | TRUE | TRUE |
| 5 | 179224597 - 179233952 | F - 10.71% | FALSE | TRUE |
| 7 | 20370325 - 20455382 | | TRUE | TRUE |
| 7 | 20370325 - 20455382 | | FALSE | TRUE |
| 7 | 20370325 - 20455382 | T - 75.00% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | F - 37.50% | FALSE | TRUE |
| 7 | 20370325 - 20455382 | F - 25.00% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | F - 12.50% | FALSE | TRUE |
| 7 | 20370325 - 20455382 | | TRUE | TRUE |
| 7 | 20370325 - 20455382 | F - 12.50% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | | TRUE | TRUE |
| 7 | 20370325 - 20455382 | F - 12.50% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | T - 50.00% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | F - 12.50% | FALSE | TRUE |
| 7 | 20370325 - 20455382 | T - 50.00% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | | FALSE | TRUE |
| 7 | 20370325 - 20455382 | | FALSE | TRUE |
| 7 | 20370325 - 20455382 | F - 37.50% | FALSE | TRUE |
| 7 | 20370325 - 20455382 | T - 87.50% | TRUE | TRUE |
| 7 | 20370325 - 20455382 | | TRUE | TRUE |
| 7 | 20370325 - 20455382 | | FALSE | TRUE |
| 7 | 20370325 - 20455382 | | FALSE | TRUE |
| 7 | 20370325 - 20455382 | | FALSE | TRUE |
| 12 | 112597992 - 112819896 | | TRUE | TRUE |
| 12 | 112597992 - 112819896 | | TRUE | TRUE |
| 12 | 112597992 - 112819896 | | TRUE | TRUE |
| 12 | 112597992 - 112819896 | | TRUE | TRUE |
| 12 | 112597992 - 112819896 | F - 8.33% | TRUE | FALSE |
| 12 | 112597992 - 112819896 | | FALSE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | F - 9.68% | TRUE | TRUE |
| 20 | 34679426 - 34820721 | F - 35.48% | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | F - 3.23% | TRUE | TRUE |
| 20 | 34679426 - 34820721 | F - 9.68% | FALSE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 20 | 34679426 - 34820721 | F - 3.23% | TRUE | TRUE |
| 20 | 34679426 - 34820721 | | TRUE | TRUE |
| 20 | 34679426 - 34820721 | F - 12.90% | FALSE | TRUE |
| 9 | 91933412 - 91974561 | | TRUE | TRUE |
| 9 | 91933412 - 91974561 | | TRUE | TRUE |
| 9 | 91933412 - 91974561 | F - 11.11% | TRUE | TRUE |
| 9 | 91933412 - 91974561 | F - 5.56% | TRUE | TRUE |
| 9 | 91933412 - 91974561 | | TRUE | TRUE |
| 9 | 91933412 - 91974561 | | TRUE | TRUE |
| 6 | 130686879 - 130764509 | | TRUE | FALSE |
| 6 | 130686879 - 130764509 | | TRUE | FALSE |
| 6 | 130686879 - 130764509 | T - 77.78% | TRUE | TRUE |
| 6 | 130686879 - 130764509 | F - 22.22% | TRUE | TRUE |
| 6 | 130686879 - 130764509 | F - 33.33% | TRUE | TRUE |
| 6 | 130686879 - 130764509 | F - 44.44% | TRUE | TRUE |
| 6 | 138188351 - 138204449 | F - 7.69% | TRUE | TRUE |
| 6 | 138188351 - 138204449 | F - 15.38% | FALSE | TRUE |
| 6 | 138188351 - 138204449 | | TRUE | TRUE |
| 6 | 138188351 - 138204449 | | TRUE | TRUE |
| 6 | 138188351 - 138204449 | F - 15.38% | TRUE | TRUE |
| 6 | 138188351 - 138204449 | | FALSE | TRUE |
| 6 | 138188351 - 138204449 | | FALSE | TRUE |
| 6 | 138188351 - 138204449 | F - 7.69% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | F - 15.38% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | F - 23.08% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | T - 69.23% | FALSE | TRUE |
| 7 | 1121844 - 1133451 | T - 53.85% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | F - 15.38% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | T - 69.23% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | | TRUE | TRUE |
| 7 | 1121844 - 1133451 | | FALSE | TRUE |
| 7 | 1121844 - 1133451 | | TRUE | TRUE |
| 7 | 1121844 - 1133451 | F - 30.77% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | T - 76.92% | TRUE | TRUE |
| 7 | 1121844 - 1133451 | | FALSE | TRUE |
| X | 48659784 - 48683392 | F - 3.85% | TRUE | FALSE |
| X | 48659784 - 48683392 | | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 3.85% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 3.85% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 36.54% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 1.92% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 1.92% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 3.85% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 11.54% | TRUE | TRUE |
| X | 48659784 - 48683392 | F - 46.15% | TRUE | TRUE |
| X | 48659784 - 48683392 | | TRUE | TRUE |
| X | 48659784 - 48683392 | T - 61.54% | FALSE | TRUE |
| 1 | 46640745 - 46651634 | | TRUE | TRUE |
| 1 | 46640745 - 46651634 | | TRUE | TRUE |
| 1 | 46640745 - 46651634 | | TRUE | TRUE |
| 1 | 46640745 - 46651634 | F - 46.15% | TRUE | TRUE |
| 1 | 46640745 - 46651634 | | TRUE | TRUE |
| 1 | 46640745 - 46651634 | T - 53.85% | TRUE | TRUE |
| 1 | 46640745 - 46651634 | T - 69.23% | TRUE | TRUE |
| 1 | 240177648 - 240655529 | | TRUE | FALSE |
| 1 | 240177648 - 240655529 | | TRUE | TRUE |
| 1 | 240177648 - 240655529 | F - 7.14% | TRUE | TRUE |
| 1 | 240177648 - 240655529 | F - 7.14% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 240177648 - 240655529 | | TRUE | TRUE |
| 1 | 240177648 - 240655529 | F - 14.29% | TRUE | TRUE |
| 1 | 240177648 - 240655529 | F - 21.43% | TRUE | TRUE |
| 1 | 240177648 - 240655529 | F - 28.57% | TRUE | TRUE |
| 1 | 240177648 - 240655529 | | TRUE | TRUE |
| 1 | 240177648 - 240655529 | | TRUE | TRUE |
| 1 | 240177648 - 240655529 | | TRUE | TRUE |
| 1 | 240177648 - 240655529 | T - 57.14% | FALSE | TRUE |
| 1 | 240177648 - 240655529 | | FALSE | TRUE |
| 1 | 240177648 - 240655529 | | FALSE | TRUE |
| 1 | 240177648 - 240655529 | T - 50.00% | TRUE | TRUE |
| 1 | 240177648 - 240655529 | F - 42.86% | FALSE | TRUE |
| 1 | 240177648 - 240655529 | | TRUE | TRUE |
| 1 | 240177648 - 240655529 | | FALSE | TRUE |
| 3 | 193853931 - 193856521 | T - 66.67% | TRUE | TRUE |
| 3 | 193853931 - 193856521 | F - 33.33% | FALSE | TRUE |
| 3 | 193853931 - 193856521 | F - 33.33% | TRUE | TRUE |
| 3 | 193853931 - 193856521 | | FALSE | TRUE |
| 3 | 193853931 - 193856521 | T - 100.00% | TRUE | TRUE |
| 3 | 193853931 - 193856521 | | TRUE | TRUE |
| 3 | 193853931 - 193856521 | | TRUE | TRUE |
| 2 | 217362912 - 217443903 | | TRUE | FALSE |
| 2 | 217362912 - 217443903 | F - 17.65% | TRUE | TRUE |
| 2 | 217362912 - 217443903 | | TRUE | TRUE |
| 2 | 217362912 - 217443903 | F - 11.76% | TRUE | TRUE |
| 2 | 217362912 - 217443903 | | FALSE | TRUE |
| 2 | 196998290 - 197041227 | | TRUE | TRUE |
| 2 | 196998290 - 197041227 | F - 14.29% | TRUE | TRUE |
| 2 | 196998290 - 197041227 | F - 28.57% | TRUE | TRUE |
| 2 | 196998290 - 197041227 | F - 42.86% | TRUE | TRUE |
| 2 | 196998290 - 197041227 | F - 14.29% | TRUE | TRUE |
| 2 | 196998290 - 197041227 | T - 57.14% | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | T - 73.68% | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | F - 15.79% | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | T - 57.89% | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 16 | 16043434 - 16236931 | | TRUE | TRUE |
| 9 | 36036430 - 36124452 | | TRUE | FALSE |
| 9 | 36036430 - 36124452 | F - 22.22% | TRUE | TRUE |
| 9 | 36036430 - 36124452 | | FALSE | TRUE |
| 9 | 36036430 - 36124452 | | FALSE | TRUE |
| 9 | 470291 - 746105 | | TRUE | TRUE |
| 9 | 470291 - 746105 | | FALSE | TRUE |
| 9 | 470291 - 746105 | | TRUE | TRUE |
| 9 | 470291 - 746105 | F - 8.70% | TRUE | TRUE |
| 9 | 470291 - 746105 | | TRUE | TRUE |
| 9 | 470291 - 746105 | | TRUE | TRUE |
| 9 | 470291 - 746105 | F - 43.48% | TRUE | TRUE |
| 9 | 470291 - 746105 | | TRUE | TRUE |
| 9 | 470291 - 746105 | F - 8.70% | TRUE | TRUE |
| 9 | 470291 - 746105 | | FALSE | TRUE |
| 9 | 470291 - 746105 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 20 | 17206752 - 17465223 | F - 27.27% | TRUE | TRUE |
| 20 | 17206752 - 17465223 | F - 27.27% | TRUE | TRUE |
| 20 | 17206752 - 17465223 | F - 9.09% | FALSE | TRUE |
| 20 | 17206752 - 17465223 | | FALSE | TRUE |
| 20 | 17206752 - 17465223 | | FALSE | TRUE |
| 20 | 17206752 - 17465223 | | TRUE | TRUE |
| 1 | 146714291 - 146767447 | | TRUE | FALSE |
| 1 | 146714291 - 146767447 | | TRUE | TRUE |
| 1 | 146714291 - 146767447 | | TRUE | TRUE |
| 1 | 146714291 - 146767447 | F - 3.70% | TRUE | TRUE |
| 1 | 146714291 - 146767447 | T - 85.19% | TRUE | TRUE |
| 1 | 146714291 - 146767447 | | TRUE | TRUE |
| 1 | 146714291 - 146767447 | | TRUE | TRUE |
| 1 | 146714291 - 146767447 | | FALSE | TRUE |
| 1 | 146714291 - 146767447 | | TRUE | TRUE |
| 2 | 56400669 - 56412905 | T - 66.67% | TRUE | TRUE |
| 2 | 56400669 - 56412905 | F - 33.33% | TRUE | TRUE |
| 2 | 56400669 - 56412905 | | TRUE | TRUE |
| 2 | 56400669 - 56412905 | T - 100.00% | FALSE | TRUE |
| 2 | 175424300 - 175547644 | | TRUE | FALSE |
| 2 | 175424300 - 175547644 | | TRUE | TRUE |
| 2 | 175424300 - 175547644 | | TRUE | FALSE |
| 2 | 175424300 - 175547644 | | TRUE | TRUE |
| 2 | 175424300 - 175547644 | | TRUE | TRUE |
| 2 | 175424300 - 175547644 | F - 12.00% | TRUE | TRUE |
| 2 | 175424300 - 175547644 | F - 20.00% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 13.33% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 6.67% | FALSE | TRUE |
| 2 | 224839765 - 224904036 | | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 13.33% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 6.67% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 6.67% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 26.67% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 20.00% | FALSE | TRUE |
| 2 | 224839765 - 224904036 | F - 13.33% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 13.33% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | | TRUE | TRUE |
| 2 | 224839765 - 224904036 | | TRUE | TRUE |
| 2 | 224839765 - 224904036 | F - 13.33% | TRUE | TRUE |
| 2 | 224839765 - 224904036 | | TRUE | TRUE |
| 2 | 224839765 - 224904036 | | TRUE | TRUE |
| 7 | 136912088 - 137028611 | F - 25.00% | TRUE | TRUE |
| 7 | 136912088 - 137028611 | F - 25.00% | FALSE | TRUE |
| 7 | 136912088 - 137028611 | T - 100.00% | TRUE | TRUE |
| 7 | 136912088 - 137028611 | T - 100.00% | TRUE | TRUE |
| 7 | 136912088 - 137028611 | T - 100.00% | TRUE | TRUE |
| 7 | 136912088 - 137028611 | | TRUE | TRUE |
| 7 | 136912088 - 137028611 | | TRUE | TRUE |
| 4 | 7760440 - 7941653 | | TRUE | TRUE |
| 4 | 7760440 - 7941653 | | TRUE | TRUE |
| 4 | 7760440 - 7941653 | | FALSE | TRUE |
| 4 | 7760440 - 7941653 | T - 63.64% | TRUE | TRUE |
| 4 | 7760440 - 7941653 | F - 9.09% | FALSE | TRUE |
| 4 | 7760440 - 7941653 | | FALSE | TRUE |
| 11 | 2397419 - 2418649 | | TRUE | FALSE |
| 11 | 2397419 - 2418649 | F - 12.50% | TRUE | TRUE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | F - 24.24% | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | F - 27.27% | TRUE | TRUE |
| 2 | 152341850 - 152591001 | F - 9.09% | TRUE | FALSE |
| 2 | 152341850 - 152591001 | F - 24.24% | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | FALSE |
| 2 | 152341850 - 152591001 | | TRUE | TRUE |
| 2 | 152341850 - 152591001 | F - 27.27% | FALSE | TRUE |
| 13 | 51928213 - 52028400 | | TRUE | TRUE |
| 13 | 51928213 - 52028400 | F - 3.45% | TRUE | FALSE |
| 13 | 51928213 - 52028400 | | TRUE | TRUE |
| 6 | 84833960 - 84937353 | | TRUE | FALSE |
| 6 | 84833960 - 84937353 | | TRUE | FALSE |
| 6 | 84833960 - 84937353 | | TRUE | TRUE |
| 6 | 84833960 - 84937353 | | TRUE | FALSE |
| 6 | 84833960 - 84937353 | | TRUE | TRUE |
| 6 | 84833960 - 84937353 | | TRUE | FALSE |
| 6 | 84833960 - 84937353 | T - 54.55% | TRUE | TRUE |
| 6 | 84833960 - 84937353 | | FALSE | TRUE |
| 13 | 32974860 - 33002315 | | TRUE | TRUE |
| 13 | 32974860 - 33002315 | F - 46.15% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | | FALSE | TRUE |
| 13 | 32974860 - 33002315 | | TRUE | TRUE |
| 13 | 32974860 - 33002315 | F - 7.69% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | F - 7.69% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | F - 15.38% | FALSE | TRUE |
| 13 | 32974860 - 33002315 | F - 7.69% | FALSE | TRUE |
| 13 | 32974860 - 33002315 | F - 7.69% | FALSE | TRUE |
| 13 | 32974860 - 33002315 | T - 53.85% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | F - 7.69% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | F - 15.38% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | | TRUE | TRUE |
| 13 | 32974860 - 33002315 | T - 92.31% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | T - 69.23% | TRUE | TRUE |
| 13 | 32974860 - 33002315 | | FALSE | TRUE |
| 13 | 32974860 - 33002315 | | FALSE | TRUE |
| 13 | 32974860 - 33002315 | | TRUE | TRUE |
| 14 | 96671016 - 96710666 | F - 12.50% | TRUE | TRUE |
| 14 | 96671016 - 96710666 | T - 75.00% | TRUE | TRUE |
| 14 | 96671016 - 96710666 | F - 25.00% | TRUE | TRUE |
| 14 | 96671016 - 96710666 | T - 50.00% | FALSE | TRUE |
| 14 | 96671016 - 96710666 | T - 87.50% | TRUE | TRUE |
| 14 | 96671016 - 96710666 | T - 75.00% | TRUE | TRUE |
| 14 | 96671016 - 96710666 | | FALSE | TRUE |
| 20 | 44441215 - 44445596 | | TRUE | TRUE |
| 20 | 44441215 - 44445596 | T - 93.75% | TRUE | TRUE |
| 20 | 44441215 - 44445596 | F - 6.25% | TRUE | TRUE |
| 20 | 44441215 - 44445596 | F - 18.75% | TRUE | TRUE |
| 20 | 44441215 - 44445596 | T - 100.00% | TRUE | TRUE |
| 20 | 44441215 - 44445596 | F - 12.50% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 20 | 44441215 - 44445596 | T - 81.25% | TRUE | TRUE |
| 20 | 44441215 - 44445596 | | TRUE | TRUE |
| 20 | 44441215 - 44445596 | T - 100.00% | TRUE | TRUE |
| 17 | 40811266 - 40819024 | | TRUE | TRUE |
| 17 | 40811266 - 40819024 | F - 33.33% | TRUE | TRUE |
| 17 | 40811266 - 40819024 | T - 83.33% | TRUE | TRUE |
| 17 | 40811266 - 40819024 | | TRUE | TRUE |
| 17 | 40811266 - 40819024 | | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | TRUE | FALSE |
| 3 | 114056941 - 114866127 | | TRUE | FALSE |
| 3 | 114056941 - 114866127 | | TRUE | TRUE |
| 3 | 114056941 - 114866127 | F - 6.90% | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | FALSE | TRUE |
| 3 | 114056941 - 114866127 | | FALSE | TRUE |
| 3 | 114056941 - 114866127 | F - 10.34% | FALSE | TRUE |
| 3 | 114056941 - 114866127 | F - 20.69% | TRUE | TRUE |
| 3 | 114056941 - 114866127 | F - 6.90% | TRUE | TRUE |
| 3 | 114056941 - 114866127 | F - 3.45% | TRUE | TRUE |
| 3 | 114056941 - 114866127 | | TRUE | TRUE |
| 2 | 242576628 - 242613272 | F - 2.50% | TRUE | TRUE |
| 2 | 242576628 - 242613272 | F - 2.50% | FALSE | TRUE |
| 2 | 242576628 - 242613272 | | FALSE | TRUE |
| 3 | 49027319 - 49044587 | | TRUE | TRUE |
| 3 | 49027319 - 49044587 | | TRUE | TRUE |
| 3 | 49027319 - 49044587 | | TRUE | TRUE |
| 3 | 49027319 - 49044587 | F - 20.00% | TRUE | TRUE |
| 3 | 49027319 - 49044587 | F - 46.67% | FALSE | TRUE |
| 3 | 49027319 - 49044587 | T - 53.33% | TRUE | TRUE |
| 3 | 49027319 - 49044587 | F - 13.33% | TRUE | TRUE |
| 6 | 132453055 - 132490514 | F - 16.67% | TRUE | FALSE |
| 6 | 132453055 - 132490514 | | TRUE | FALSE |
| 6 | 132453055 - 132490514 | | TRUE | TRUE |
| 6 | 132453055 - 132490514 | F - 16.67% | TRUE | TRUE |
| 6 | 132453055 - 132490514 | F - 33.33% | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | FALSE |
| 13 | 21140585 - 21265576 | | TRUE | FALSE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | F - 11.11% | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | FALSE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | T - 66.67% | TRUE | TRUE |
| 13 | 21140585 - 21265576 | F - 38.89% | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | FALSE | TRUE |
| 13 | 21140585 - 21265576 | | TRUE | TRUE |
| 13 | 21140585 - 21265576 | T - 66.67% | TRUE | TRUE |
| 13 | 21140585 - 21265576 | | FALSE | TRUE |
| 13 | 21140585 - 21265576 | | FALSE | TRUE |
| 13 | 21140585 - 21265576 | | FALSE | TRUE |
| 15 | 25068794 - 25244225 | F - 8.70% | TRUE | TRUE |
| 15 | 25068794 - 25244225 | | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 15 | 25068794 - 25244225 | | TRUE | TRUE |
| 15 | 25068794 - 25244225 | | FALSE | TRUE |
| 4 | 89647106 - 90032549 | F - 15.63% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | FALSE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | FALSE |
| 4 | 89647106 - 90032549 | F - 25.00% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 12.50% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 25.00% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 6.25% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 6.25% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 18.75% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 21.88% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 18.75% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 18.75% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 3.13% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 18.75% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 3.13% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 6.25% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 3.13% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 3.13% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 3.13% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | F - 3.13% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | T - 56.25% | FALSE | TRUE |
| 4 | 89647106 - 90032549 | | FALSE | TRUE |
| 4 | 89647106 - 90032549 | F - 40.63% | TRUE | TRUE |
| 4 | 89647106 - 90032549 | | TRUE | TRUE |
| 17 | 74138534 - 74236390 | | TRUE | TRUE |
| 17 | 74138534 - 74236390 | | TRUE | TRUE |
| 17 | 74138534 - 74236390 | T - 80.00% | TRUE | TRUE |
| 17 | 74138534 - 74236390 | | TRUE | FALSE |
| 17 | 74138534 - 74236390 | | FALSE | TRUE |
| 17 | 74138534 - 74236390 | | FALSE | TRUE |
| 1 | 33722146 - 33766320 | | TRUE | FALSE |
| 1 | 33722146 - 33766320 | | FALSE | TRUE |
| 1 | 33722146 - 33766320 | F - 12.50% | TRUE | TRUE |
| 1 | 74663896 - 75010116 | | TRUE | FALSE |
| 1 | 74663896 - 75010116 | | TRUE | TRUE |
| 1 | 74663896 - 75010116 | | TRUE | FALSE |
| 1 | 74663896 - 75010116 | | TRUE | TRUE |
| 1 | 74663896 - 75010116 | | TRUE | FALSE |
| 1 | 74663896 - 75010116 | | TRUE | FALSE |
| 1 | 74663896 - 75010116 | F - 37.93% | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 37.93% | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 41.38% | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 24.14% | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 37.93% | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 24.14% | TRUE | FALSE |
| 1 | 74663896 - 75010116 | | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 17.24% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 1 | 74663896 - 75010116 | | TRUE | TRUE |
| 1 | 74663896 - 75010116 | F - 13.79% | TRUE | FALSE |
| 1 | 19665267 - 19812066 | | TRUE | FALSE |
| 1 | 19665267 - 19812066 | F - 17.65% | TRUE | FALSE |
| 1 | 19665267 - 19812066 | F - 17.65% | TRUE | TRUE |
| 1 | 19665267 - 19812066 | | FALSE | TRUE |
| 1 | 19665267 - 19812066 | | FALSE | TRUE |
| 1 | 19665267 - 19812066 | | TRUE | TRUE |
| 1 | 19665267 - 19812066 | | TRUE | TRUE |
| 6_apd_hap1 | 1097261 - 1100722 | F - 33.33% | TRUE | TRUE |
| 6_apd_hap1 | 1097261 - 1100722 | | FALSE | TRUE |
| 6_apd_hap1 | 1097261 - 1100722 | T - 66.67% | TRUE | TRUE |
| 6_apd_hap1 | 1097261 - 1100722 | | TRUE | TRUE |
| 6_apd_hap1 | 1097261 - 1100722 | T - 66.67% | TRUE | TRUE |
| 3 | 38738293 - 38835501 | | TRUE | FALSE |
| 3 | 38738293 - 38835501 | T - 50.00% | TRUE | FALSE |
| 1 | 53527724 - 53551174 | T - 61.54% | TRUE | FALSE |
| 1 | 53527724 - 53551174 | | TRUE | TRUE |
| 1 | 53527724 - 53551174 | T - 61.54% | TRUE | TRUE |
| 1 | 53527724 - 53551174 | | TRUE | TRUE |
| 1 | 53527724 - 53551174 | | TRUE | TRUE |
| 1 | 53527724 - 53551174 | | TRUE | TRUE |
| 1 | 53527724 - 53551174 | | FALSE | TRUE |
| 2 | 220114433 - 220142892 | F - 7.14% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | T - 50.00% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | F - 7.14% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | F - 7.14% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | F - 14.29% | FALSE | TRUE |
| 2 | 220114433 - 220142892 | F - 7.14% | FALSE | TRUE |
| 2 | 220114433 - 220142892 | F - 14.29% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | | TRUE | TRUE |
| 2 | 220114433 - 220142892 | F - 42.86% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | | FALSE | TRUE |
| 2 | 220114433 - 220142892 | F - 42.86% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | F - 7.14% | TRUE | TRUE |
| 2 | 220114433 - 220142892 | | TRUE | TRUE |
| 2 | 220114433 - 220142892 | | FALSE | TRUE |
| 2 | 220114433 - 220142892 | F - 7.14% | TRUE | TRUE |
| 3 | 46753605 - 46777921 | | TRUE | FALSE |
| 3 | 46753605 - 46777921 | T - 50.00% | TRUE | FALSE |
| 3 | 46753605 - 46777921 | | FALSE | TRUE |
| 3 | 46753605 - 46777921 | F - 40.00% | FALSE | TRUE |
| 3 | 46753605 - 46777921 | F - 40.00% | FALSE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 25.00% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 8.33% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 8.33% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 25.00% | FALSE | TRUE |
| 1 | 143211528 - 143275032 | F - 16.67% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 16.67% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 8.33% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | F - 16.67% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 1 | 143211528 - 143275032 | F - 8.33% | FALSE | TRUE |
| 1 | 143211528 - 143275032 | F - 8.33% | FALSE | TRUE |
| 1 | 143211528 - 143275032 | F - 8.33% | TRUE | TRUE |
| 1 | 143211528 - 143275032 | | FALSE | TRUE |
| 6 | 146185381 - 146285559 | | TRUE | FALSE |
| 6 | 146185381 - 146285559 | F - 16.67% | TRUE | TRUE |
| 6 | 146185381 - 146285559 | | TRUE | TRUE |
| 6 | 146185381 - 146285559 | | TRUE | TRUE |
| 6 | 146185381 - 146285559 | F - 5.56% | FALSE | TRUE |
| 6 | 146185381 - 146285559 | F - 27.78% | TRUE | TRUE |
| 6 | 146185381 - 146285559 | | TRUE | TRUE |
| 14 | 61110132 - 61124977 | | TRUE | TRUE |
| 14 | 61110132 - 61124977 | F - 14.29% | TRUE | TRUE |
| 14 | 61110132 - 61124977 | F - 28.57% | TRUE | TRUE |
| 14 | 61110132 - 61124977 | F - 28.57% | FALSE | TRUE |
| 17 | 57642886 - 57685713 | | TRUE | TRUE |
| 17 | 57642886 - 57685713 | | TRUE | FALSE |
| 17 | 57642886 - 57685713 | F - 11.11% | FALSE | TRUE |
| 5 | 169805167 - 169816681 | | TRUE | TRUE |
| 5 | 169805167 - 169816681 | | TRUE | FALSE |
| 5 | 169805167 - 169816681 | T - 50.00% | TRUE | TRUE |
| 10 | 102672326 - 102724893 | | TRUE | FALSE |
| 10 | 102672326 - 102724893 | F - 10.00% | TRUE | TRUE |
| 10 | 102672326 - 102724893 | | TRUE | TRUE |
| 10 | 102672326 - 102724893 | F - 40.00% | TRUE | TRUE |
| 10 | 102672326 - 102724893 | | TRUE | TRUE |
| 10 | 102672326 - 102724893 | | TRUE | TRUE |
| 10 | 102672326 - 102724893 | | FALSE | TRUE |
| 10 | 102672326 - 102724893 | | FALSE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | T - 62.50% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 43.75% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 6.25% | FALSE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | FALSE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 40.63% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 3.13% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | F - 6.25% | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | | TRUE | TRUE |
| 6_mann_hap4 | 2196837 - 2216014 | T - 71.88% | FALSE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | T - 62.50% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 43.75% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 6.25% | FALSE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | FALSE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 40.63% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 3.13% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | F - 6.25% | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | | TRUE | TRUE |
| 6_qbl_hap6 | 2141739 - 2160922 | T - 71.88% | FALSE | TRUE |
| 1 | 45959598 - 45965751 | | TRUE | TRUE |
| 1 | 45959598 - 45965751 | | TRUE | TRUE |
| 1 | 45959598 - 45965751 | | FALSE | TRUE |
| 1 | 45959598 - 45965751 | F - 20.00% | TRUE | TRUE |
| 1 | 45959598 - 45965751 | | TRUE | TRUE |
| 1 | 45959598 - 45965751 | T - 100.00% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 9.09% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | FALSE |
| 1 | 104068313 - 104153092 | F - 13.64% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 27.27% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 13.64% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 31.82% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 31.82% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 31.82% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 31.82% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 40.91% | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | | TRUE | TRUE |
| 1 | 104068313 - 104153092 | F - 40.91% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | F - 20.00% | FALSE | TRUE |
| 5 | 63461671 - 63668696 | T - 90.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | F - 10.00% | FALSE | TRUE |
| 5 | 63461671 - 63668696 | T - 90.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | T - 50.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | F - 20.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | T - 70.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | F - 20.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | | FALSE | TRUE |
| 5 | 63461671 - 63668696 | F - 20.00% | TRUE | TRUE |
| 5 | 63461671 - 63668696 | T - 80.00% | TRUE | TRUE |
| 11 | 71883483 - 71889086 | | TRUE | FALSE |
| 11 | 71883483 - 71889086 | T - 100.00% | TRUE | TRUE |
| 11 | 71883483 - 71889086 | T - 100.00% | TRUE | TRUE |
| 11 | 62619460 - 62623386 | F - 27.50% | TRUE | TRUE |
| 11 | 62619460 - 62623386 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 11 | 62619460 - 62623386 | F - 10.00% | TRUE | TRUE |
| 11 | 62619460 - 62623386 | | TRUE | FALSE |
| 11 | 62619460 - 62623386 | F - 12.50% | TRUE | TRUE |
| 11 | 62619460 - 62623386 | F - 15.00% | TRUE | TRUE |
| 11 | 62619460 - 62623386 | F - 7.50% | TRUE | TRUE |
| 11 | 62619460 - 62623386 | F - 2.50% | FALSE | TRUE |
| 2 | 197063977 - 197458416 | | TRUE | TRUE |
| 2 | 197063977 - 197458416 | | TRUE | TRUE |
| 2 | 197063977 - 197458416 | F - 42.86% | TRUE | TRUE |
| 2 | 197063977 - 197458416 | | FALSE | TRUE |
| 2 | 197063977 - 197458416 | | TRUE | TRUE |
| 2 | 197063977 - 197458416 | | FALSE | TRUE |
| 2 | 197063977 - 197458416 | | TRUE | TRUE |
| 4 | 169277886 - 169458937 | | TRUE | FALSE |
| 4 | 169277886 - 169458937 | | TRUE | TRUE |
| 4 | 169277886 - 169458937 | | FALSE | TRUE |
| 4 | 169277886 - 169458937 | F - 35.00% | TRUE | TRUE |
| 4 | 169277886 - 169458937 | | TRUE | TRUE |
| 4 | 169277886 - 169458937 | F - 40.00% | TRUE | TRUE |
| 4 | 169277886 - 169458937 | | TRUE | FALSE |
| 4 | 169277886 - 169458937 | | TRUE | TRUE |
| 4 | 169277886 - 169458937 | F - 40.00% | TRUE | TRUE |
| 4 | 169277886 - 169458937 | F - 10.00% | FALSE | TRUE |
| 10 | 13480484 - 13570974 | | TRUE | FALSE |
| 10 | 13480484 - 13570974 | | TRUE | TRUE |
| 10 | 13480484 - 13570974 | F - 12.50% | TRUE | TRUE |
| 10 | 13480484 - 13570974 | | TRUE | TRUE |
| 10 | 13480484 - 13570974 | F - 6.25% | TRUE | TRUE |
| 10 | 13480484 - 13570974 | | TRUE | TRUE |
| 10 | 13480484 - 13570974 | F - 25.00% | TRUE | TRUE |
| 10 | 13480484 - 13570974 | T - 81.25% | FALSE | TRUE |
| 10 | 13480484 - 13570974 | | TRUE | TRUE |
| 10 | 13480484 - 13570974 | | FALSE | TRUE |
| 10 | 13480484 - 13570974 | F - 25.00% | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | F - 8.33% | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | F - 41.67% | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | F - 41.67% | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | F - 33.33% | FALSE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | F - 33.33% | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | TRUE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | FALSE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | F - 8.33% | FALSE | TRUE |
| 6_qbl_hap6 | 2661007 - 2677562 | | TRUE | TRUE |
| 1 | 85109390 - 85156486 | F - 5.00% | TRUE | FALSE |
| 1 | 85109390 - 85156486 | | TRUE | TRUE |
| 1 | 85109390 - 85156486 | F - 20.00% | TRUE | TRUE |
| 1 | 85109390 - 85156486 | | TRUE | TRUE |
| 1 | 85109390 - 85156486 | F - 30.00% | TRUE | TRUE |
| 1 | 85109390 - 85156486 | F - 5.00% | TRUE | TRUE |
| 1 | 85109390 - 85156486 | | TRUE | TRUE |
| 1 | 85109390 - 85156486 | F - 45.00% | TRUE | TRUE |
| 1 | 85109390 - 85156486 | | TRUE | TRUE |
| 1 | 85109390 - 85156486 | F - 20.00% | FALSE | TRUE |
| 1 | 85109390 - 85156486 | F - 5.00% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 85109390 - 85156486 | F - 25.00% | TRUE | TRUE |
| 1 | 85109390 - 85156486 | | TRUE | TRUE |
| 1 | 85109390 - 85156486 | T - 80.00% | TRUE | TRUE |
| 1 | 85109390 - 85156486 | | TRUE | TRUE |
| 3 | 37094117 - 37225180 | | TRUE | TRUE |
| 3 | 37094117 - 37225180 | | TRUE | FALSE |
| 3 | 37094117 - 37225180 | F - 20.00% | TRUE | TRUE |
| 3 | 37094117 - 37225180 | | TRUE | TRUE |
| 3 | 37094117 - 37225180 | | TRUE | FALSE |
| 3 | 37094117 - 37225180 | F - 16.00% | TRUE | TRUE |
| 3 | 37094117 - 37225180 | F - 8.00% | TRUE | TRUE |
| 3 | 37094117 - 37225180 | F - 12.00% | TRUE | TRUE |
| 3 | 37094117 - 37225180 | F - 16.00% | TRUE | TRUE |
| 3 | 37094117 - 37225180 | | FALSE | TRUE |
| 3 | 37094117 - 37225180 | | TRUE | TRUE |
| 4 | 185308867 - 185395734 | F - 25.00% | TRUE | TRUE |
| 4 | 185308867 - 185395734 | | TRUE | TRUE |
| 4 | 185308867 - 185395734 | F - 8.33% | TRUE | TRUE |
| 4 | 185308867 - 185395734 | | FALSE | TRUE |
| 4 | 185308867 - 185395734 | F - 8.33% | TRUE | TRUE |
| 4 | 185308867 - 185395734 | | TRUE | TRUE |
| 4 | 185308867 - 185395734 | F - 8.33% | TRUE | TRUE |
| 4 | 185308867 - 185395734 | | FALSE | TRUE |
| 4 | 185308867 - 185395734 | F - 8.33% | TRUE | TRUE |
| 4 | 185308867 - 185395734 | T - 83.33% | TRUE | TRUE |
| 10 | 43881065 - 43904696 | F - 47.06% | TRUE | TRUE |
| 10 | 43881065 - 43904696 | | TRUE | TRUE |
| 1 | 110905470 - 110933704 | | TRUE | TRUE |
| 1 | 110905470 - 110933704 | | TRUE | TRUE |
| 1 | 110905470 - 110933704 | F - 5.56% | TRUE | TRUE |
| 10 | 104678071 - 104838344 | | TRUE | TRUE |
| 10 | 104678071 - 104838344 | F - 10.00% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 6.25% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 43.75% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 6.25% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 6.25% | FALSE | TRUE |
| 13 | 49882786 - 50020554 | | FALSE | TRUE |
| 13 | 49882786 - 50020554 | F - 25.00% | FALSE | TRUE |
| 13 | 49882786 - 50020554 | | TRUE | TRUE |
| 13 | 49882786 - 50020554 | | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 43.75% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | | FALSE | TRUE |
| 13 | 49882786 - 50020554 | F - 31.25% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 37.50% | TRUE | TRUE |
| 13 | 49882786 - 50020554 | F - 12.50% | FALSE | TRUE |
| 13 | 49882786 - 50020554 | F - 37.50% | FALSE | TRUE |
| X | 100075348 - 100096485 | | TRUE | FALSE |
| X | 100075348 - 100096485 | F - 11.11% | TRUE | TRUE |
| X | 100075348 - 100096485 | | FALSE | TRUE |
| X | 100075348 - 100096485 | | TRUE | TRUE |
| 4 | 152330368 - 152584784 | F - 25.00% | FALSE | TRUE |
| 4 | 152330368 - 152584784 | F - 12.50% | FALSE | TRUE |
| 4 | 152330368 - 152584784 | | TRUE | TRUE |
| 4 | 152330368 - 152584784 | F - 37.50% | TRUE | TRUE |
| 4 | 152330368 - 152584784 | | TRUE | TRUE |
| 4 | 152330368 - 152584784 | | FALSE | TRUE |
| 4 | 152330368 - 152584784 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 4 | 152330368 - 152584784 | | TRUE | TRUE |
| 4 | 152330368 - 152584784 | T - 62.50% | TRUE | TRUE |
| 4 | 152330368 - 152584784 | | TRUE | TRUE |
| 8 | 80523049 - 80578410 | T - 62.50% | TRUE | FALSE |
| 8 | 80523049 - 80578410 | | TRUE | FALSE |
| 8 | 80523049 - 80578410 | T - 100.00% | TRUE | TRUE |
| 8 | 80523049 - 80578410 | T - 87.50% | TRUE | TRUE |
| 8 | 80523049 - 80578410 | | TRUE | TRUE |
| 8 | 80523049 - 80578410 | | FALSE | TRUE |
| 12 | 75784850 - 75826468 | T - 88.89% | TRUE | TRUE |
| 12 | 75784850 - 75826468 | | TRUE | FALSE |
| 14 | 51324609 - 51411454 | F - 9.09% | TRUE | TRUE |
| 14 | 51324609 - 51411454 | F - 9.09% | TRUE | TRUE |
| 14 | 51324609 - 51411454 | F - 45.45% | TRUE | TRUE |
| 14 | 51324609 - 51411454 | | TRUE | TRUE |
| 14 | 51324609 - 51411454 | | TRUE | TRUE |
| 14 | 51324609 - 51411454 | | TRUE | TRUE |
| 19 | 49133817 - 49140639 | T - 80.00% | TRUE | TRUE |
| 19 | 49133817 - 49140639 | F - 40.00% | FALSE | TRUE |
| 19 | 49133817 - 49140639 | T - 100.00% | TRUE | TRUE |
| 19 | 49133817 - 49140639 | F - 40.00% | FALSE | TRUE |
| 19 | 49133817 - 49140639 | | FALSE | TRUE |
| 1 | 45809555 - 45956872 | T - 69.23% | TRUE | TRUE |
| 1 | 45809555 - 45956872 | T - 76.92% | TRUE | TRUE |
| 1 | 45809555 - 45956872 | F - 23.08% | FALSE | TRUE |
| 1 | 45809555 - 45956872 | | FALSE | TRUE |
| 1 | 45809555 - 45956872 | | FALSE | TRUE |
| 1 | 45809555 - 45956872 | T - 69.23% | TRUE | TRUE |
| 1 | 45809555 - 45956872 | T - 76.92% | TRUE | TRUE |
| 1 | 144811744 - 144830302 | | TRUE | TRUE |
| 1 | 144811744 - 144830302 | | TRUE | TRUE |
| 1 | 144811744 - 144830302 | F - 6.67% | TRUE | TRUE |
| 2 | 144703321 - 145090135 | | TRUE | FALSE |
| 2 | 144703321 - 145090135 | | TRUE | FALSE |
| 2 | 144703321 - 145090135 | F - 9.68% | TRUE | TRUE |
| 2 | 144703321 - 145090135 | | FALSE | TRUE |
| 9 | 4553386 - 4666674 | | TRUE | FALSE |
| 9 | 4553386 - 4666674 | | FALSE | TRUE |
| 9 | 4553386 - 4666674 | | TRUE | TRUE |
| 9 | 4553386 - 4666674 | F - 10.53% | FALSE | TRUE |
| 9 | 127640573 - 127710292 | | TRUE | FALSE |
| 9 | 127640573 - 127710292 | | TRUE | FALSE |
| 9 | 127640573 - 127710292 | | TRUE | TRUE |
| 9 | 127640573 - 127710292 | | TRUE | TRUE |
| 9 | 127640573 - 127710292 | F - 11.11% | TRUE | TRUE |
| X | 30671476 - 30749577 | | TRUE | TRUE |
| X | 30671476 - 30749577 | | TRUE | TRUE |
| X | 30671476 - 30749577 | T - 68.18% | TRUE | TRUE |
| X | 30671476 - 30749577 | | TRUE | TRUE |
| X | 30671476 - 30749577 | | TRUE | TRUE |
| X | 30671476 - 30749577 | | TRUE | TRUE |
| X | 30671476 - 30749577 | F - 4.55% | TRUE | TRUE |
| 19 | 51385352 - 51399654 | T - 100.00% | TRUE | TRUE |
| 19 | 51385352 - 51399654 | T - 50.00% | TRUE | TRUE |
| 19 | 51385352 - 51399654 | T - 50.00% | TRUE | TRUE |
| 19 | 51385352 - 51399654 | T - 50.00% | TRUE | TRUE |
| 19 | 51385352 - 51399654 | | FALSE | TRUE |
| 22 | 41220539 - 41253026 | T - 53.85% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 22 | 41220539 - 41253026 | | TRUE | TRUE |
| 6 | 99321334 - 99395849 | | TRUE | TRUE |
| 6 | 99321334 - 99395849 | | TRUE | TRUE |
| 6 | 99321334 - 99395849 | T - 85.71% | TRUE | TRUE |
| 6 | 99321334 - 99395849 | | TRUE | TRUE |
| 7 | 97920962 - 98030427 | | TRUE | TRUE |
| 7 | 97920962 - 98030427 | F - 11.11% | TRUE | TRUE |
| 7 | 97920962 - 98030427 | | TRUE | FALSE |
| 7 | 97920962 - 98030427 | F - 11.11% | TRUE | TRUE |
| 7 | 97920962 - 98030427 | | TRUE | TRUE |
| 7 | 97920962 - 98030427 | F - 11.11% | TRUE | TRUE |
| 7 | 97920962 - 98030427 | F - 11.11% | TRUE | TRUE |
| 14 | 21152259 - 21168761 | | TRUE | TRUE |
| 14 | 21152259 - 21168761 | | TRUE | TRUE |
| 14 | 21152259 - 21168761 | F - 4.00% | FALSE | TRUE |
| 14 | 21152259 - 21168761 | F - 32.00% | TRUE | TRUE |
| 14 | 21152259 - 21168761 | | TRUE | TRUE |
| 14 | 21152259 - 21168761 | F - 28.00% | TRUE | TRUE |
| 14 | 21152259 - 21168761 | F - 16.00% | TRUE | TRUE |
| 1 | 57110990 - 57181008 | T - 100.00% | TRUE | TRUE |
| 1 | 57110990 - 57181008 | | TRUE | TRUE |
| 1 | 57110990 - 57181008 | | FALSE | TRUE |
| 1 | 31205315 - 31230683 | | TRUE | TRUE |
| 1 | 31205315 - 31230683 | F - 16.67% | FALSE | TRUE |
| 1 | 31205315 - 31230683 | | TRUE | TRUE |
| 1 | 31205315 - 31230683 | T - 83.33% | TRUE | TRUE |
| 1 | 31205315 - 31230683 | T - 83.33% | TRUE | TRUE |
| 1 | 31205315 - 31230683 | F - 16.67% | FALSE | TRUE |
| 1 | 31205315 - 31230683 | | TRUE | TRUE |
| 1 | 31205315 - 31230683 | T - 50.00% | TRUE | TRUE |
| 7 | 27208238 - 27211534 | | TRUE | TRUE |
| 7 | 27208238 - 27211534 | F - 33.33% | TRUE | TRUE |
| 7 | 27208238 - 27211534 | F - 16.67% | TRUE | TRUE |
| 7 | 27208238 - 27211534 | T - 66.67% | FALSE | TRUE |
| 7 | 27208238 - 27211534 | | FALSE | TRUE |
| 7 | 27208238 - 27211534 | F - 33.33% | FALSE | TRUE |
| 7 | 27208238 - 27211534 | | FALSE | TRUE |
| 7 | 36429415 - 36493400 | | TRUE | TRUE |
| 7 | 36429415 - 36493400 | F - 35.29% | FALSE | TRUE |
| 7 | 36429415 - 36493400 | | TRUE | TRUE |
| 7 | 36429415 - 36493400 | F - 5.88% | FALSE | TRUE |
| 7 | 36429415 - 36493400 | | TRUE | TRUE |
| 7 | 36429415 - 36493400 | F - 41.18% | FALSE | TRUE |
| 7 | 36429415 - 36493400 | F - 5.88% | TRUE | TRUE |
| 7 | 36429415 - 36493400 | F - 5.88% | TRUE | TRUE |
| 7 | 36429415 - 36493400 | F - 5.88% | FALSE | TRUE |
| 7 | 36429415 - 36493400 | | TRUE | TRUE |
| 7 | 36429415 - 36493400 | | FALSE | TRUE |
| 7 | 36429415 - 36493400 | F - 47.06% | FALSE | TRUE |
| 7 | 36429415 - 36493400 | F - 35.29% | TRUE | TRUE |
| 7 | 36429415 - 36493400 | T - 52.94% | TRUE | TRUE |
| 7 | 36429415 - 36493400 | | TRUE | TRUE |
| 7 | 36429415 - 36493400 | F - 47.06% | TRUE | TRUE |
| 7 | 36429415 - 36493400 | | FALSE | TRUE |
| 7 | 36429415 - 36493400 | | FALSE | TRUE |
| 7 | 36429415 - 36493400 | F - 41.18% | TRUE | TRUE |
| 8 | 63927638 - 63951730 | | TRUE | TRUE |
| 8 | 63927638 - 63951730 | F - 9.09% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 8 | 63927638 - 63951730 | T - 54.55% | TRUE | TRUE |
| 8 | 63927638 - 63951730 | F - 27.27% | TRUE | TRUE |
| 8 | 63927638 - 63951730 | | TRUE | TRUE |
| 8 | 63927638 - 63951730 | F - 27.27% | TRUE | TRUE |
| 8 | 63927638 - 63951730 | F - 9.09% | FALSE | TRUE |
| 8 | 63927638 - 63951730 | | FALSE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 43.90% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 34.15% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 39.02% | FALSE | TRUE |
| 10 | 123237844 - 123357972 | F - 9.76% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | FALSE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 2.44% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 46.34% | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | | TRUE | TRUE |
| 10 | 123237844 - 123357972 | F - 36.59% | TRUE | TRUE |
| 6_ssto_hap7 | 4367205 - 4430060 | | TRUE | TRUE |
| 6_ssto_hap7 | 4367205 - 4430060 | | TRUE | TRUE |
| 6_ssto_hap7 | 4367205 - 4430060 | F - 6.25% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | FALSE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | F - 3.85% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | F - 3.85% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | FALSE | TRUE |
| 2 | 66660584 - 66799891 | F - 3.85% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | FALSE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | F - 7.69% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | F - 7.69% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | F - 7.69% | TRUE | TRUE |
| 2 | 66660584 - 66799891 | | TRUE | TRUE |
| 2 | 66660584 - 66799891 | T - 69.23% | TRUE | TRUE |
| 4 | 53728457 - 53733002 | | TRUE | FALSE |
| 4 | 53728457 - 53733002 | T - 80.00% | TRUE | TRUE |
| 4 | 53728457 - 53733002 | T - 80.00% | TRUE | TRUE |
| 4 | 53728457 - 53733002 | | TRUE | FALSE |
| 4 | 53728457 - 53733002 | F - 20.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 4.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 40.00% | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 4.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 8.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | FALSE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 12.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | T - 64.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 4.00% | FALSE | TRUE |
| 1 | 62208149 - 62644347 | F - 4.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | T - 68.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | FALSE | TRUE |
| 1 | 62208149 - 62644347 | F - 16.00% | FALSE | TRUE |
| 1 | 62208149 - 62644347 | | FALSE | TRUE |
| 1 | 62208149 - 62644347 | F - 48.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 24.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 4.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 20.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 32.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | F - 48.00% | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | TRUE | TRUE |
| 1 | 62208149 - 62644347 | | FALSE | TRUE |
| 11 | 7535001 - 7678358 | T - 70.59% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | F - 17.65% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | F - 5.88% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | | FALSE | TRUE |
| 11 | 7535001 - 7678358 | F - 17.65% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | T - 88.24% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | F - 17.65% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | T - 76.47% | FALSE | TRUE |
| 11 | 7535001 - 7678358 | F - 11.76% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | T - 64.71% | FALSE | TRUE |
| 11 | 7535001 - 7678358 | F - 5.88% | TRUE | TRUE |
| 11 | 7535001 - 7678358 | | FALSE | TRUE |
| 11 | 7535001 - 7678358 | | TRUE | TRUE |
| 11 | 7535001 - 7678358 | | FALSE | TRUE |
| 11 | 7535001 - 7678358 | | TRUE | TRUE |
| 11 | 7535001 - 7678358 | | TRUE | TRUE |
| 11 | 7535001 - 7678358 | | TRUE | TRUE |
| 11 | 7535001 - 7678358 | | TRUE | TRUE |
| 14 | 94640649 - 94746072 | | TRUE | TRUE |
| 14 | 94640649 - 94746072 | | TRUE | FALSE |
| 14 | 94640649 - 94746072 | | TRUE | FALSE |
| 14 | 94640649 - 94746072 | | TRUE | TRUE |
| 14 | 94640649 - 94746072 | | TRUE | TRUE |
| 14 | 94640649 - 94746072 | | TRUE | TRUE |
| 14 | 94640649 - 94746072 | F - 40.00% | TRUE | TRUE |
| 14 | 94640649 - 94746072 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | F - 3.45% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | F - 48.28% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | T - 51.72% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | F - 37.93% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | F - 3.45% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | F - 13.79% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 29213603 - 29446558 | | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | F - 3.45% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | TRUE | TRUE |
| 1 | 29213603 - 29446558 | F - 3.45% | FALSE | TRUE |
| 1 | 29213603 - 29446558 | F - 10.34% | FALSE | TRUE |
| 1 | 29213603 - 29446558 | F - 44.83% | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | | TRUE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 29213603 - 29446558 | | FALSE | TRUE |
| 1 | 207494817 - 207534311 | F - 33.33% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | F - 4.76% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | F - 4.76% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | T - 76.19% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | F - 42.86% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | T - 57.14% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | T - 80.95% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | F - 9.52% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | | TRUE | TRUE |
| 1 | 207494817 - 207534311 | T - 71.43% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | T - 61.90% | TRUE | TRUE |
| 1 | 207494817 - 207534311 | | TRUE | TRUE |
| 1 | 207494817 - 207534311 | | FALSE | TRUE |
| 1 | 207494817 - 207534311 | F - 4.76% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 2.56% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | | TRUE | FALSE |
| 7 | 134429003 - 134655480 | F - 2.56% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 2.56% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 5.13% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 7.69% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 2.56% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 20.51% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | | FALSE | TRUE |
| 7 | 134429003 - 134655480 | F - 2.56% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | F - 15.38% | TRUE | TRUE |
| 7 | 134429003 - 134655480 | | TRUE | TRUE |
| 1 | 203181955 - 203242769 | | TRUE | FALSE |
| 1 | 203181955 - 203242769 | | TRUE | TRUE |
| 1 | 203181955 - 203242769 | | TRUE | FALSE |
| 1 | 203181955 - 203242769 | T - 81.25% | TRUE | TRUE |
| 1 | 203181955 - 203242769 | T - 75.00% | TRUE | TRUE |
| 1 | 203181955 - 203242769 | F - 18.75% | FALSE | TRUE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | T - 93.33% | TRUE | FALSE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | T - 100.00% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | F - 26.67% | TRUE | FALSE |
| 4 | 6322305 - 6565327 | | TRUE | FALSE |
| 4 | 6322305 - 6565327 | F - 13.33% | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 4 | 6322305 - 6565327 | F - 6.67% | TRUE | FALSE |
| 4 | 6322305 - 6565327 | T - 86.67% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | | TRUE | TRUE |
| 4 | 6322305 - 6565327 | T - 80.00% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | F - 13.33% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | F - 6.67% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | F - 13.33% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | F - 20.00% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | F - 13.33% | FALSE | TRUE |
| 4 | 6322305 - 6565327 | F - 6.67% | FALSE | TRUE |
| 4 | 6322305 - 6565327 | F - 26.67% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | F - 6.67% | TRUE | TRUE |
| 4 | 6322305 - 6565327 | | FALSE | TRUE |
| 1 | 11249398 - 11256038 | | TRUE | FALSE |
| 1 | 11249398 - 11256038 | T - 50.00% | TRUE | TRUE |
| 1 | 11249398 - 11256038 | | TRUE | TRUE |
| 1 | 11249398 - 11256038 | T - 50.00% | TRUE | FALSE |
| 1 | 11249398 - 11256038 | T - 50.00% | TRUE | TRUE |
| 1 | 11249398 - 11256038 | | TRUE | FALSE |
| 3 | 195590235 - 195638816 | | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | TRUE | FALSE |
| 3 | 195590235 - 195638816 | F - 3.13% | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | TRUE | FALSE |
| 3 | 195590235 - 195638816 | | TRUE | TRUE |
| 3 | 195590235 - 195638816 | F - 3.13% | TRUE | TRUE |
| 3 | 195590235 - 195638816 | F - 6.25% | TRUE | TRUE |
| 3 | 195590235 - 195638816 | F - 15.63% | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | TRUE | TRUE |
| 3 | 195590235 - 195638816 | F - 3.13% | TRUE | TRUE |
| 3 | 195590235 - 195638816 | | FALSE | TRUE |
| 3 | 195590235 - 195638816 | | FALSE | TRUE |
| 3 | 195590235 - 195638816 | | FALSE | TRUE |
| 6 | 2988201 - 2991405 | T - 66.67% | TRUE | TRUE |
| 6 | 2988201 - 2991405 | | TRUE | TRUE |
| 6 | 2988201 - 2991405 | F - 33.33% | FALSE | TRUE |
| 6 | 2988201 - 2991405 | T - 100.00% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 8.33% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 33.33% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 25.00% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 8.33% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | | TRUE | TRUE |
| 8 | 21971928 - 21990897 | T - 50.00% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 8.33% | FALSE | TRUE |
| 8 | 21971928 - 21990897 | F - 41.67% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 8.33% | FALSE | TRUE |
| 8 | 21971928 - 21990897 | F - 16.67% | FALSE | TRUE |
| 8 | 21971928 - 21990897 | | FALSE | TRUE |
| 8 | 21971928 - 21990897 | | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 33.33% | FALSE | TRUE |
| 8 | 21971928 - 21990897 | F - 41.67% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | F - 33.33% | TRUE | TRUE |
| 8 | 21971928 - 21990897 | | FALSE | TRUE |
| 8 | 21971928 - 21990897 | | FALSE | TRUE |
| 8 | 21971928 - 21990897 | F - 41.67% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 8 | 21971928 - 21990897 | | TRUE | TRUE |
| 8 | 21971928 - 21990897 | | FALSE | TRUE |
| 8 | 21971928 - 21990897 | | TRUE | TRUE |
| 12 | 8798540 - 8815480 | T - 54.55% | TRUE | TRUE |
| 12 | 8798540 - 8815480 | | TRUE | TRUE |
| 12 | 8798540 - 8815480 | | TRUE | TRUE |
| 12 | 8798540 - 8815480 | | TRUE | FALSE |
| 12 | 8798540 - 8815480 | F - 36.36% | TRUE | TRUE |
| 12 | 8798540 - 8815480 | F - 45.45% | TRUE | TRUE |
| 12 | 8798540 - 8815480 | T - 54.55% | TRUE | TRUE |
| 12 | 8798540 - 8815480 | T - 72.73% | TRUE | TRUE |
| 12 | 8798540 - 8815480 | | TRUE | FALSE |
| 12 | 8798540 - 8815480 | | TRUE | TRUE |
| 12 | 8798540 - 8815480 | | FALSE | TRUE |
| 15 | 74466012 - 74469213 | F - 42.86% | TRUE | TRUE |
| 15 | 74466012 - 74469213 | | TRUE | TRUE |
| 15 | 74466012 - 74469213 | F - 14.29% | FALSE | TRUE |
| 1 | 11072414 - 11085796 | | TRUE | FALSE |
| 1 | 11072414 - 11085796 | | TRUE | TRUE |
| 1 | 11072414 - 11085796 | F - 21.43% | TRUE | TRUE |
| 1 | 11072414 - 11085796 | | TRUE | TRUE |
| 1 | 223282748 - 223316624 | F - 11.11% | TRUE | TRUE |
| 1 | 223282748 - 223316624 | T - 55.56% | TRUE | TRUE |
| 1 | 223282748 - 223316624 | F - 44.44% | TRUE | TRUE |
| 1 | 223282748 - 223316624 | F - 22.22% | TRUE | TRUE |
| 1 | 223282748 - 223316624 | F - 33.33% | TRUE | TRUE |
| 1 | 223282748 - 223316624 | | TRUE | TRUE |
| 1 | 223282748 - 223316624 | | FALSE | TRUE |
| 3 | 195473636 - 195539148 | | TRUE | TRUE |
| 3 | 195473636 - 195539148 | | TRUE | TRUE |
| 3 | 195473636 - 195539148 | T - 81.82% | TRUE | FALSE |
| 3 | 195473636 - 195539148 | | TRUE | TRUE |
| 3 | 195473636 - 195539148 | T - 68.18% | TRUE | TRUE |
| 4 | 72053003 - 72437804 | | TRUE | TRUE |
| 4 | 72053003 - 72437804 | F - 33.33% | TRUE | TRUE |
| 4 | 72053003 - 72437804 | F - 41.67% | TRUE | TRUE |
| 4 | 72053003 - 72437804 | | TRUE | TRUE |
| 4 | 72053003 - 72437804 | F - 33.33% | TRUE | TRUE |
| 4 | 72053003 - 72437804 | | TRUE | TRUE |
| 11 | 82783108 - 82817761 | | TRUE | TRUE |
| 11 | 82783108 - 82817761 | | TRUE | TRUE |
| 11 | 82783108 - 82817761 | | TRUE | TRUE |
| 11 | 82783108 - 82817761 | | TRUE | TRUE |
| 11 | 82783108 - 82817761 | T - 55.56% | FALSE | TRUE |
| 21 | 37757676 - 37789125 | | TRUE | TRUE |
| 21 | 37757676 - 37789125 | F - 40.00% | TRUE | TRUE |
| 21 | 37757676 - 37789125 | | TRUE | TRUE |
| 21 | 37757676 - 37789125 | T - 80.00% | TRUE | TRUE |
| 21 | 37757676 - 37789125 | | FALSE | TRUE |
| 12 | 68726668 - 68845443 | F - 37.50% | TRUE | TRUE |
| 12 | 68726668 - 68845443 | F - 25.00% | TRUE | FALSE |
| 12 | 68726668 - 68845443 | F - 25.00% | TRUE | FALSE |
| 12 | 68726668 - 68845443 | | TRUE | FALSE |
| 12 | 68726668 - 68845443 | F - 25.00% | TRUE | FALSE |
| 12 | 68726668 - 68845443 | F - 25.00% | TRUE | FALSE |
| 12 | 68726668 - 68845443 | F - 12.50% | TRUE | TRUE |
| 12 | 68726668 - 68845443 | | TRUE | FALSE |
| 6_mann_hap4 | 3950416 - 4028663 | | TRUE | FALSE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 6_mann_hap4 | 3950416 - 4028663 | F - 20.00% | TRUE | TRUE |
| 6_mann_hap4 | 3950416 - 4028663 | | TRUE | FALSE |
| 1 | 65613232 - 65697828 | | TRUE | TRUE |
| 1 | 65613232 - 65697828 | | TRUE | FALSE |
| 1 | 65613232 - 65697828 | | TRUE | TRUE |
| 1 | 65613232 - 65697828 | F - 17.65% | TRUE | TRUE |
| 1 | 65613232 - 65697828 | F - 5.88% | TRUE | TRUE |
| 1 | 65613232 - 65697828 | F - 23.53% | TRUE | TRUE |
| 1 | 65613232 - 65697828 | F - 5.88% | FALSE | TRUE |
| 1 | 65613232 - 65697828 | T - 70.59% | FALSE | TRUE |
| 1 | 65613232 - 65697828 | F - 11.76% | TRUE | TRUE |
| 1 | 65613232 - 65697828 | F - 5.88% | TRUE | TRUE |
| 1 | 65613232 - 65697828 | F - 11.76% | TRUE | TRUE |
| 1 | 65613232 - 65697828 | | FALSE | TRUE |
| 7 | 99905325 - 99919819 | | TRUE | TRUE |
| 7 | 99905325 - 99919819 | T - 50.00% | TRUE | FALSE |
| 7 | 99905325 - 99919819 | F - 25.00% | FALSE | TRUE |
| 8 | 139600478 - 139926249 | | TRUE | TRUE |
| 8 | 139600478 - 139926249 | | TRUE | TRUE |
| 8 | 139600478 - 139926249 | | TRUE | FALSE |
| 8 | 139600478 - 139926249 | T - 63.64% | TRUE | TRUE |
| 8 | 139600478 - 139926249 | F - 27.27% | TRUE | TRUE |
| 8 | 139600478 - 139926249 | | FALSE | TRUE |
| 15 | 30375158 - 30385702 | | TRUE | FALSE |
| 15 | 30375158 - 30385702 | F - 20.00% | TRUE | TRUE |
| 15 | 30375158 - 30385702 | | FALSE | TRUE |
| 1 | 149825607 - 149832725 | | TRUE | TRUE |
| 1 | 149825607 - 149832725 | F - 14.29% | FALSE | TRUE |
| 1 | 149825607 - 149832725 | T - 57.14% | TRUE | TRUE |
| 1 | 149825607 - 149832725 | F - 28.57% | TRUE | TRUE |
| 1 | 149825607 - 149832725 | T - 100.00% | TRUE | TRUE |
| 1 | 204391756 - 204463852 | | TRUE | FALSE |
| 1 | 204391756 - 204463852 | | TRUE | TRUE |
| 1 | 204391756 - 204463852 | | TRUE | FALSE |
| 1 | 204391756 - 204463852 | F - 5.88% | FALSE | TRUE |
| 1 | 204391756 - 204463852 | | FALSE | TRUE |
| 4 | 169418217 - 169849608 | | TRUE | TRUE |
| 4 | 169418217 - 169849608 | F - 4.35% | TRUE | TRUE |
| 4 | 169418217 - 169849608 | F - 30.43% | TRUE | TRUE |
| 4 | 169418217 - 169849608 | F - 21.74% | TRUE | TRUE |
| 4 | 169418217 - 169849608 | | TRUE | TRUE |
| 4 | 169418217 - 169849608 | F - 8.70% | TRUE | TRUE |
| 4 | 169418217 - 169849608 | | TRUE | TRUE |
| 5 | 148871760 - 148931007 | | TRUE | FALSE |
| 5 | 148871760 - 148931007 | | TRUE | FALSE |
| 5 | 148871760 - 148931007 | | TRUE | FALSE |
| 5 | 148871760 - 148931007 | | TRUE | TRUE |
| 5 | 148871760 - 148931007 | F - 5.56% | TRUE | TRUE |
| 5 | 148871760 - 148931007 | F - 11.11% | TRUE | TRUE |
| 6 | 26087509 - 26098571 | F - 10.00% | TRUE | TRUE |
| 6 | 26087509 - 26098571 | | TRUE | TRUE |
| 6 | 26087509 - 26098571 | | TRUE | TRUE |
| 6 | 26087509 - 26098571 | T - 53.33% | TRUE | TRUE |
| X | 24167290 - 24234372 | | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 4.17% | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 12.50% | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 8.33% | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 4.17% | FALSE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| X | 24167290 - 24234372 | | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 4.17% | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 4.17% | TRUE | TRUE |
| X | 24167290 - 24234372 | F - 37.50% | TRUE | TRUE |
| X | 24167290 - 24234372 | T - 62.50% | TRUE | TRUE |
| X | 24167290 - 24234372 | T - 58.33% | TRUE | TRUE |
| X | 24167290 - 24234372 | | TRUE | TRUE |
| X | 24167290 - 24234372 | | TRUE | TRUE |
| X | 24167290 - 24234372 | | TRUE | TRUE |
| X | 24167290 - 24234372 | | FALSE | TRUE |
| X | 24167290 - 24234372 | | FALSE | TRUE |
| X | 24167290 - 24234372 | | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | F - 27.27% | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | T - 63.64% | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | T - 54.55% | TRUE | TRUE |
| X | 43625857 - 43741721 | T - 72.73% | TRUE | TRUE |
| X | 43625857 - 43741721 | T - 54.55% | FALSE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| X | 43625857 - 43741721 | | TRUE | TRUE |
| 6_cox_hap2 | 1369125 - 1372586 | F - 33.33% | TRUE | TRUE |
| 6_cox_hap2 | 1369125 - 1372586 | | TRUE | TRUE |
| 6_cox_hap2 | 1369125 - 1372586 | | FALSE | TRUE |
| 6_cox_hap2 | 1369125 - 1372586 | F - 33.33% | TRUE | TRUE |
| 6_cox_hap2 | 1369125 - 1372586 | T - 66.67% | TRUE | TRUE |
| 6_cox_hap2 | 1369125 - 1372586 | | TRUE | TRUE |
| 3 | 170779128 - 171178197 | F - 34.48% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | | TRUE | TRUE |
| 3 | 170779128 - 171178197 | F - 13.79% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | F - 48.28% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | F - 3.45% | FALSE | TRUE |
| 3 | 170779128 - 171178197 | T - 68.97% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | | TRUE | TRUE |
| 3 | 170779128 - 171178197 | T - 79.31% | FALSE | TRUE |
| 3 | 170779128 - 171178197 | T - 65.52% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | T - 51.72% | FALSE | TRUE |
| 3 | 170779128 - 171178197 | | FALSE | TRUE |
| 3 | 170779128 - 171178197 | | FALSE | TRUE |
| 3 | 170779128 - 171178197 | T - 65.52% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | F - 6.90% | FALSE | TRUE |
| 3 | 170779128 - 171178197 | T - 72.41% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | T - 72.41% | TRUE | TRUE |
| 3 | 170779128 - 171178197 | | FALSE | TRUE |
| 3 | 170779128 - 171178197 | | FALSE | TRUE |
| 5 | 150399999 - 150408554 | | TRUE | FALSE |
| 5 | 150399999 - 150408554 | | TRUE | FALSE |
| 5 | 150399999 - 150408554 | | TRUE | TRUE |
| 5 | 150399999 - 150408554 | F - 46.15% | TRUE | TRUE |
| 5 | 150399999 - 150408554 | T - 53.85% | TRUE | TRUE |
| 9 | 131873228 - 131911225 | | TRUE | TRUE |
| 9 | 131873228 - 131911225 | | TRUE | TRUE |
| 9 | 131873228 - 131911225 | | TRUE | TRUE |
| 9 | 131873228 - 131911225 | F - 15.38% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 9 | 131873228 - 131911225 | | FALSE | TRUE |
| 9 | 131873228 - 131911225 | | FALSE | TRUE |
| 9 | 131873228 - 131911225 | F - 12.82% | TRUE | TRUE |
| 22 | 31608225 - 31676066 | | TRUE | TRUE |
| 22 | 31608225 - 31676066 | F - 43.75% | TRUE | TRUE |
| 22 | 31608225 - 31676066 | | TRUE | TRUE |
| 22 | 31608225 - 31676066 | F - 37.50% | TRUE | TRUE |
| 22 | 31608225 - 31676066 | | TRUE | FALSE |
| 22 | 31608225 - 31676066 | | TRUE | TRUE |
| 22 | 31608225 - 31676066 | | TRUE | FALSE |
| 22 | 31608225 - 31676066 | F - 37.50% | TRUE | TRUE |
| 22 | 31608225 - 31676066 | F - 37.50% | TRUE | TRUE |
| 22 | 31608225 - 31676066 | F - 31.25% | TRUE | TRUE |
| 22 | 31608225 - 31676066 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | FALSE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | F - 31.25% | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | F - 6.25% | TRUE | TRUE |
| 3 | 195343316 - 195467994 | F - 6.25% | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | FALSE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | F - 37.50% | TRUE | TRUE |
| 3 | 195343316 - 195467994 | T - 56.25% | TRUE | TRUE |
| 3 | 195343316 - 195467994 | T - 62.50% | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 195343316 - 195467994 | | TRUE | TRUE |
| 3 | 108308337 - 108413693 | | TRUE | FALSE |
| 3 | 108308337 - 108413693 | T - 63.64% | TRUE | TRUE |
| 3 | 108308337 - 108413693 | | TRUE | TRUE |
| 3 | 108308337 - 108413693 | | TRUE | TRUE |
| 3 | 108308337 - 108413693 | | TRUE | TRUE |
| 3 | 108308337 - 108413693 | | TRUE | TRUE |
| 7 | 104654626 - 104754808 | | TRUE | FALSE |
| 7 | 104654626 - 104754808 | | TRUE | TRUE |
| 7 | 104654626 - 104754808 | | TRUE | FALSE |
| 7 | 104654626 - 104754808 | F - 3.13% | TRUE | TRUE |
| 7 | 27202057 - 27219880 | | TRUE | FALSE |
| 7 | 27202057 - 27219880 | F - 21.43% | FALSE | TRUE |
| 7 | 27202057 - 27219880 | F - 28.57% | TRUE | TRUE |
| 7 | 27202057 - 27219880 | | TRUE | TRUE |
| 7 | 27202057 - 27219880 | F - 7.14% | TRUE | TRUE |
| 7 | 27202057 - 27219880 | | FALSE | TRUE |
| 7 | 27202057 - 27219880 | F - 14.29% | TRUE | TRUE |
| 7 | 27202057 - 27219880 | | TRUE | TRUE |
| 7 | 27202057 - 27219880 | | TRUE | TRUE |
| 7 | 27202057 - 27219880 | | TRUE | TRUE |
| 7 | 27202057 - 27219880 | F - 35.71% | FALSE | TRUE |
| 7 | 27202057 - 27219880 | | FALSE | TRUE |
| 7 | 27202057 - 27219880 | F - 21.43% | TRUE | TRUE |
| 7 | 27202057 - 27219880 | F - 28.57% | TRUE | TRUE |
| 8 | 17666450 - 17678377 | | TRUE | FALSE |
| 8 | 17666450 - 17678377 | T - 50.00% | TRUE | TRUE |
| 8 | 17666450 - 17678377 | T - 100.00% | TRUE | TRUE |
| 8 | 17666450 - 17678377 | T - 100.00% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 14 | 70320848 - 70499083 | F - 14.29% | TRUE | TRUE |
| 14 | 70320848 - 70499083 | | TRUE | TRUE |
| 14 | 70320848 - 70499083 | F - 14.29% | TRUE | TRUE |
| 14 | 70320848 - 70499083 | F - 14.29% | TRUE | TRUE |
| 1 | 143354963 - 143467658 | | TRUE | TRUE |
| 1 | 143354963 - 143467658 | | TRUE | TRUE |
| 1 | 143354963 - 143467658 | F - 10.00% | TRUE | TRUE |
| 1 | 143354963 - 143467658 | | TRUE | TRUE |
| 1 | 143354963 - 143467658 | F - 10.00% | TRUE | TRUE |
| 1 | 143354963 - 143467658 | | FALSE | TRUE |
| 1 | 143354963 - 143467658 | F - 20.00% | TRUE | TRUE |
| 1 | 143354963 - 143467658 | F - 20.00% | TRUE | TRUE |
| 1 | 143354963 - 143467658 | F - 10.00% | TRUE | TRUE |
| 3 | 196726331 - 196731615 | | TRUE | TRUE |
| 3 | 196726331 - 196731615 | F - 40.00% | TRUE | TRUE |
| 7 | 105888731 - 105926772 | | TRUE | TRUE |
| 7 | 105888731 - 105926772 | F - 11.11% | TRUE | FALSE |
| 7 | 105888731 - 105926772 | F - 5.56% | FALSE | TRUE |
| 7 | 105888731 - 105926772 | F - 5.56% | FALSE | TRUE |
| 7 | 105888731 - 105926772 | F - 11.11% | TRUE | TRUE |
| 7 | 105888731 - 105926772 | F - 5.56% | FALSE | TRUE |
| 7 | 105888731 - 105926772 | F - 5.56% | FALSE | TRUE |
| 7 | 105888731 - 105926772 | F - 22.22% | TRUE | TRUE |
| 7 | 105888731 - 105926772 | | TRUE | TRUE |
| 10 | 118430703 - 118609716 | | TRUE | TRUE |
| 10 | 118430703 - 118609716 | | TRUE | TRUE |
| 10 | 118430703 - 118609716 | | TRUE | TRUE |
| 10 | 118430703 - 118609716 | F - 25.00% | TRUE | TRUE |
| 10 | 118430703 - 118609716 | F - 37.50% | FALSE | TRUE |
| 1 | 53099016 - 53135355 | | TRUE | FALSE |
| 1 | 53099016 - 53135355 | T - 100.00% | TRUE | TRUE |
| 1 | 53099016 - 53135355 | T - 57.14% | FALSE | TRUE |
| 1 | 53099016 - 53135355 | F - 28.57% | TRUE | TRUE |
| 1 | 53099016 - 53135355 | F - 28.57% | FALSE | TRUE |
| 1 | 53099016 - 53135355 | | FALSE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | FALSE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 40.00% | TRUE | FALSE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 40.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 40.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 30.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 20.00% | TRUE | TRUE |
| 1 | 208195587 - 208417665 | F - 10.00% | FALSE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 1 | 208195587 - 208417665 | | TRUE | TRUE |
| 3 | 194995465 - 195163817 | | TRUE | TRUE |
| 3 | 194995465 - 195163817 | | TRUE | FALSE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 3 | 194995465 - 195163817 | | TRUE | TRUE |
| | 3 | 194995465 - 195163817 | | TRUE | FALSE |
| | 3 | 194995465 - 195163817 | | TRUE | FALSE |
| | 3 | 194995465 - 195163817 | F - 5.88% | TRUE | FALSE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | T - 51.47% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | FALSE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | FALSE |
| X | | 31132808 - 33357726 | | TRUE | FALSE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | T - 52.94% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | FALSE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 2.94% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | FALSE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 14.71% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | FALSE |
| X | | 31132808 - 33357726 | F - 2.94% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 1.47% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 7.35% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 16.18% | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 5.88% | FALSE | TRUE |
| X | | 31132808 - 33357726 | F - 2.94% | FALSE | TRUE |
| X | | 31132808 - 33357726 | F - 1.47% | TRUE | TRUE |
| X | | 31132808 - 33357726 | F - 4.41% | FALSE | TRUE |
| X | | 31132808 - 33357726 | F - 1.47% | TRUE | TRUE |
| X | | 31132808 - 33357726 | | TRUE | TRUE |
| X | | 31132808 - 33357726 | | FALSE | TRUE |
| X | | 31132808 - 33357726 | F - 1.47% | FALSE | TRUE |
| X | | 31132808 - 33357726 | | FALSE | TRUE |
| | 22 | 46692638 - 46726707 | | TRUE | TRUE |
| | 22 | 46692638 - 46726707 | T - 63.64% | FALSE | TRUE |
| | 22 | 46692638 - 46726707 | F - 18.18% | TRUE | TRUE |
| | 22 | 46692638 - 46726707 | | TRUE | TRUE |
| | 1 | 51819935 - 51985000 | F - 14.29% | TRUE | TRUE |
| | 1 | 51819935 - 51985000 | | TRUE | FALSE |
| | 1 | 51819935 - 51985000 | | TRUE | TRUE |
| | 2 | 145121063 - 145282147 | | TRUE | TRUE |
| | 2 | 145121063 - 145282147 | F - 2.22% | TRUE | TRUE |
| | 2 | 145121063 - 145282147 | | TRUE | TRUE |
| | 2 | 145121063 - 145282147 | | TRUE | FALSE |
| | 10 | 80828792 - 81076285 | | TRUE | TRUE |
| | 10 | 80828792 - 81076285 | | FALSE | TRUE |
| | 10 | 80828792 - 81076285 | | FALSE | TRUE |
| | 10 | 80828792 - 81076285 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 10 | 80828792 - 81076285 | | TRUE | TRUE |
| 10 | 80828792 - 81076285 | F - 7.69% | TRUE | TRUE |
| 10 | 80828792 - 81076285 | | FALSE | TRUE |
| 10 | 80828792 - 81076285 | F - 7.69% | TRUE | TRUE |
| 10 | 80828792 - 81076285 | F - 15.38% | TRUE | TRUE |
| 10 | 80828792 - 81076285 | | TRUE | TRUE |
| 12 | 123011795 - 123110947 | | TRUE | FALSE |
| 12 | 123011795 - 123110947 | | TRUE | TRUE |
| 12 | 123011795 - 123110947 | T - 87.50% | TRUE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | TRUE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | TRUE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 12 | 123011795 - 123110947 | | FALSE | TRUE |
| 3 | 149086805 - 149095652 | F - 22.22% | TRUE | TRUE |
| 3 | 149086805 - 149095652 | | TRUE | TRUE |
| 5 | 166711804 - 167691162 | F - 22.22% | TRUE | TRUE |
| 5 | 166711804 - 167691162 | | TRUE | TRUE |
| 5 | 166711804 - 167691162 | F - 22.22% | FALSE | TRUE |
| 5 | 166711804 - 167691162 | F - 5.56% | FALSE | TRUE |
| 5 | 166711804 - 167691162 | | FALSE | TRUE |
| 5 | 166711804 - 167691162 | | TRUE | TRUE |
| 5 | 166711804 - 167691162 | F - 5.56% | TRUE | TRUE |
| 5 | 166711804 - 167691162 | | TRUE | TRUE |
| 5 | 166711804 - 167691162 | | FALSE | TRUE |
| 5 | 166711804 - 167691162 | | TRUE | TRUE |
| 5 | 166711804 - 167691162 | | TRUE | TRUE |
| 5 | 166711804 - 167691162 | T - 66.67% | TRUE | TRUE |
| 5 | 166711804 - 167691162 | F - 5.56% | TRUE | TRUE |
| 5 | 166711804 - 167691162 | | FALSE | TRUE |
| 5 | 166711804 - 167691162 | | TRUE | TRUE |
| 5 | 69776697 - 69881549 | | TRUE | TRUE |
| 5 | 69776697 - 69881549 | F - 33.33% | TRUE | TRUE |
| 6 | 80816344 - 81055987 | | TRUE | TRUE |
| 6 | 80816344 - 81055987 | F - 16.67% | FALSE | TRUE |
| 22 | 33561991 - 34318829 | | TRUE | FALSE |
| 22 | 33561991 - 34318829 | F - 15.38% | TRUE | TRUE |
| 22 | 33561991 - 34318829 | | TRUE | TRUE |
| 22 | 33561991 - 34318829 | F - 7.69% | TRUE | TRUE |
| 22 | 33561991 - 34318829 | F - 3.85% | FALSE | TRUE |
| 22 | 33561991 - 34318829 | F - 26.92% | TRUE | TRUE |
| 22 | 33561991 - 34318829 | T - 61.54% | TRUE | TRUE |
| 22 | 33561991 - 34318829 | | FALSE | TRUE |
| 1 | 235824341 - 236046940 | | TRUE | TRUE |
| 1 | 235824341 - 236046940 | | TRUE | TRUE |
| 1 | 235824341 - 236046940 | | TRUE | FALSE |
| 1 | 235824341 - 236046940 | | TRUE | TRUE |
| 1 | 235824341 - 236046940 | | TRUE | TRUE |
| 1 | 235824341 - 236046940 | | TRUE | TRUE |
| 1 | 235824341 - 236046940 | | TRUE | TRUE |
| 1 | 235824341 - 236046940 | F - 14.29% | TRUE | TRUE |
| 1 | 235824341 - 236046940 | F - 28.57% | TRUE | TRUE |
| 1 | 235824341 - 236046940 | | FALSE | TRUE |
| 1 | 235824341 - 236046940 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 235824341 - 236046940 | | FALSE | TRUE |
| 2 | 220283099 - 220291461 | | TRUE | FALSE |
| 2 | 220283099 - 220291461 | T - 60.00% | TRUE | FALSE |
| 2 | 220283099 - 220291461 | | TRUE | FALSE |
| 2 | 220283099 - 220291461 | F - 20.00% | FALSE | TRUE |
| 2 | 237232794 - 237416185 | | TRUE | FALSE |
| 2 | 237232794 - 237416185 | F - 6.25% | TRUE | TRUE |
| 2 | 237232794 - 237416185 | | TRUE | TRUE |
| 2 | 237232794 - 237416185 | | TRUE | TRUE |
| 5 | 137514408 - 137523404 | F - 30.00% | TRUE | FALSE |
| 5 | 137514408 - 137523404 | | TRUE | TRUE |
| 5 | 137514408 - 137523404 | F - 10.00% | TRUE | TRUE |
| 5 | 137514408 - 137523404 | F - 30.00% | FALSE | TRUE |
| 5 | 137514408 - 137523404 | F - 40.00% | TRUE | TRUE |
| 5 | 137514408 - 137523404 | T - 90.00% | TRUE | TRUE |
| 5 | 137514408 - 137523404 | T - 60.00% | TRUE | TRUE |
| 5 | 137514408 - 137523404 | | FALSE | TRUE |
| 5 | 137514408 - 137523404 | | TRUE | TRUE |
| 13 | 45915480 - 45965872 | | TRUE | TRUE |
| 13 | 45915480 - 45965872 | | TRUE | FALSE |
| 13 | 45915480 - 45965872 | | TRUE | TRUE |
| 13 | 45915480 - 45965872 | F - 12.00% | TRUE | TRUE |
| 13 | 45915480 - 45965872 | | TRUE | TRUE |
| 1 | 169631245 - 169823221 | | TRUE | TRUE |
| 1 | 169631245 - 169823221 | | TRUE | FALSE |
| 1 | 169631245 - 169823221 | T - 60.87% | TRUE | TRUE |
| 1 | 169631245 - 169823221 | T - 91.30% | TRUE | TRUE |
| 1 | 169631245 - 169823221 | | TRUE | TRUE |
| 1 | 169631245 - 169823221 | T - 95.65% | FALSE | TRUE |
| 1 | 169631245 - 169823221 | | FALSE | TRUE |
| 1 | 169631245 - 169823221 | | FALSE | TRUE |
| 1 | 169631245 - 169823221 | | TRUE | TRUE |
| 1 | 169631245 - 169823221 | T - 69.57% | TRUE | TRUE |
| 1 | 169631245 - 169823221 | T - 69.57% | FALSE | TRUE |
| 1 | 169631245 - 169823221 | F - 43.48% | TRUE | TRUE |
| 1 | 169631245 - 169823221 | | FALSE | TRUE |
| 8 | 134467091 - 134584183 | | TRUE | FALSE |
| 8 | 134467091 - 134584183 | F - 5.26% | FALSE | TRUE |
| 8 | 134467091 - 134584183 | | FALSE | TRUE |
| 1 | 111729796 - 111747157 | | TRUE | TRUE |
| 1 | 111729796 - 111747157 | | TRUE | TRUE |
| 1 | 111729796 - 111747157 | F - 10.00% | TRUE | TRUE |
| 8 | 40388109 - 40755352 | | TRUE | TRUE |
| 8 | 40388109 - 40755352 | | TRUE | TRUE |
| 8 | 40388109 - 40755352 | F - 8.33% | FALSE | TRUE |
| 8 | 40388109 - 40755352 | F - 8.33% | TRUE | TRUE |
| 8 | 40388109 - 40755352 | T - 66.67% | TRUE | TRUE |
| 8 | 40388109 - 40755352 | F - 25.00% | FALSE | TRUE |
| 8 | 40388109 - 40755352 | | FALSE | TRUE |
| 8 | 40388109 - 40755352 | F - 41.67% | TRUE | TRUE |
| 8 | 40388109 - 40755352 | | TRUE | TRUE |
| 8 | 40388109 - 40755352 | T - 75.00% | TRUE | TRUE |
| 8 | 40388109 - 40755352 | | FALSE | TRUE |
| 8 | 40388109 - 40755352 | | FALSE | TRUE |
| 11 | 17281887 - 17371521 | | TRUE | TRUE |
| 11 | 17281887 - 17371521 | F - 12.50% | TRUE | TRUE |
| 11 | 17281887 - 17371521 | F - 18.75% | FALSE | TRUE |
| 11 | 17281887 - 17371521 | F - 12.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 11 | 17281887 - 17371521 | F - 6.25% | FALSE | TRUE |
| 11 | 17281887 - 17371521 | F - 6.25% | TRUE | TRUE |
| 11 | 17281887 - 17371521 | | TRUE | TRUE |
| 11 | 17281887 - 17371521 | F - 6.25% | TRUE | TRUE |
| 11 | 17281887 - 17371521 | F - 6.25% | TRUE | TRUE |
| 11 | 17281887 - 17371521 | F - 25.00% | TRUE | TRUE |
| 11 | 17281887 - 17371521 | F - 37.50% | TRUE | TRUE |
| 11 | 17281887 - 17371521 | | TRUE | TRUE |
| 11 | 17281887 - 17371521 | | FALSE | TRUE |
| 11 | 17281887 - 17371521 | F - 12.50% | FALSE | TRUE |
| 2 | 218664512 - 218867718 | F - 16.13% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 3.23% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 3.23% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 9.68% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 12.90% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 6.45% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 9.68% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 6.45% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 3.23% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | FALSE | TRUE |
| 2 | 218664512 - 218867718 | F - 3.23% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | F - 6.45% | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | FALSE | TRUE |
| 2 | 218664512 - 218867718 | F - 3.23% | FALSE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 2 | 218664512 - 218867718 | | TRUE | TRUE |
| 5 | 134906371 - 134914969 | T - 100.00% | TRUE | FALSE |
| 5 | 134906371 - 134914969 | | TRUE | FALSE |
| 5 | 134906371 - 134914969 | T - 60.00% | TRUE | TRUE |
| 5 | 134906371 - 134914969 | T - 100.00% | TRUE | FALSE |
| 5 | 134906371 - 134914969 | | TRUE | FALSE |
| 5 | 134906371 - 134914969 | | TRUE | TRUE |
| 5 | 134906371 - 134914969 | T - 80.00% | TRUE | TRUE |
| 5 | 134906371 - 134914969 | T - 60.00% | TRUE | TRUE |
| 5 | 134906371 - 134914969 | F - 40.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 10.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 2.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 27.50% | TRUE | FALSE |
| 9 | 116207011 - 116360018 | F - 32.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 5.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | FALSE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 20.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 5.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 10.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 20.00% | FALSE | TRUE |
| 9 | 116207011 - 116360018 | F - 7.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 7.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 9 | 116207011 - 116360018 | F - 32.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 15.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 10.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 5.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 5.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 15.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 27.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 5.00% | FALSE | TRUE |
| 9 | 116207011 - 116360018 | F - 27.50% | FALSE | TRUE |
| 9 | 116207011 - 116360018 | F - 5.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | | FALSE | TRUE |
| 9 | 116207011 - 116360018 | | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 20.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 10.00% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 37.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 2.50% | TRUE | TRUE |
| 9 | 116207011 - 116360018 | F - 2.50% | FALSE | TRUE |
| 9 | 116207011 - 116360018 | | FALSE | TRUE |
| 9 | 116207011 - 116360018 | F - 2.50% | FALSE | TRUE |
| 12 | 8071824 - 8088892 | F - 20.00% | TRUE | TRUE |
| 12 | 8071824 - 8088892 | F - 30.00% | TRUE | TRUE |
| 12 | 8071824 - 8088892 | F - 30.00% | TRUE | TRUE |
| 12 | 8071824 - 8088892 | F - 10.00% | FALSE | TRUE |
| 12 | 8071824 - 8088892 | F - 10.00% | FALSE | TRUE |
| 12 | 8071824 - 8088892 | | TRUE | TRUE |
| 12 | 8071824 - 8088892 | F - 10.00% | FALSE | TRUE |
| 12 | 8071824 - 8088892 | F - 40.00% | TRUE | TRUE |
| 12 | 8071824 - 8088892 | F - 40.00% | TRUE | TRUE |
| 12 | 8071824 - 8088892 | | TRUE | TRUE |
| 6 | 29690552 - 29706966 | | TRUE | TRUE |
| 6 | 29690552 - 29706966 | F - 4.17% | TRUE | TRUE |
| 6 | 29690552 - 29706966 | F - 4.17% | TRUE | TRUE |
| 6 | 29690552 - 29706966 | | FALSE | TRUE |
| 6 | 29690552 - 29706966 | | TRUE | TRUE |
| 6 | 29690552 - 29706966 | | TRUE | TRUE |
| 6 | 29690552 - 29706966 | F - 8.33% | FALSE | TRUE |
| 6 | 29690552 - 29706966 | F - 8.33% | TRUE | TRUE |
| 6 | 29690552 - 29706966 | | TRUE | TRUE |
| 6 | 29690552 - 29706966 | | FALSE | TRUE |
| 6 | 29690552 - 29706966 | F - 8.33% | TRUE | TRUE |
| 6 | 29690552 - 29706966 | | TRUE | TRUE |
| 6 | 29690552 - 29706966 | F - 8.33% | FALSE | TRUE |
| 6 | 29690552 - 29706966 | F - 33.33% | TRUE | TRUE |
| 6 | 29690552 - 29706966 | F - 12.50% | FALSE | TRUE |
| 6 | 29690552 - 29706966 | T - 62.50% | FALSE | TRUE |
| 7 | 100770370 - 100782547 | F - 9.09% | TRUE | TRUE |
| 7 | 100770370 - 100782547 | F - 9.09% | TRUE | TRUE |
| 7 | 100770370 - 100782547 | F - 9.09% | TRUE | TRUE |
| 7 | 100770370 - 100782547 | F - 9.09% | TRUE | FALSE |
| 7 | 100770370 - 100782547 | | TRUE | TRUE |
| 8 | 38854388 - 38962779 | | TRUE | FALSE |
| 8 | 38854388 - 38962779 | F - 6.67% | TRUE | TRUE |
| 9 | 141106637 - 141149300 | F - 33.33% | TRUE | FALSE |
| 9 | 141106637 - 141149300 | | TRUE | TRUE |
| 9 | 141106637 - 141149300 | | TRUE | TRUE |
| 9 | 141106637 - 141149300 | T - 66.67% | TRUE | TRUE |
| 9 | 141106637 - 141149300 | T - 66.67% | TRUE | TRUE |
| 11 | 19372271 - 20143147 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 19372271 - 20143147 | F - 8.70% | TRUE | TRUE |
| 11 | 19372271 - 20143147 | | TRUE | FALSE |
| 11 | 19372271 - 20143147 | F - 4.35% | TRUE | TRUE |
| 11 | 19372271 - 20143147 | F - 21.74% | TRUE | TRUE |
| 11 | 19372271 - 20143147 | | TRUE | FALSE |
| 11 | 19372271 - 20143147 | | TRUE | TRUE |
| 11 | 19372271 - 20143147 | F - 17.39% | TRUE | TRUE |
| 11 | 19372271 - 20143147 | | TRUE | TRUE |
| 19 | 14491956 - 14519537 | | TRUE | TRUE |
| 19 | 14491956 - 14519537 | | TRUE | TRUE |
| 19 | 14491956 - 14519537 | | TRUE | FALSE |
| 19 | 14491956 - 14519537 | | TRUE | TRUE |
| 19 | 14491956 - 14519537 | F - 25.00% | TRUE | TRUE |
| 19 | 14491956 - 14519537 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | T - 90.00% | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | T - 60.00% | TRUE | TRUE |
| 1 | 159141377 - 159173103 | T - 90.00% | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | T - 80.00% | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | | TRUE | TRUE |
| 1 | 159141377 - 159173103 | F - 30.00% | TRUE | TRUE |
| 1 | 159141377 - 159173103 | T - 60.00% | TRUE | TRUE |
| 1 | 159141377 - 159173103 | F - 10.00% | FALSE | TRUE |
| 5 | 118604387 - 118730294 | F - 46.15% | TRUE | TRUE |
| 5 | 118604387 - 118730294 | | TRUE | FALSE |
| 5 | 118604387 - 118730294 | | TRUE | TRUE |
| 5 | 118604387 - 118730294 | | FALSE | TRUE |
| 1 | 220701568 - 220837803 | | TRUE | FALSE |
| 1 | 220701568 - 220837803 | T - 72.73% | TRUE | TRUE |
| 1 | 220701568 - 220837803 | T - 63.64% | TRUE | TRUE |
| 2 | 189156396 - 189460653 | | TRUE | TRUE |
| 2 | 189156396 - 189460653 | | TRUE | TRUE |
| 2 | 189156396 - 189460653 | F - 11.54% | TRUE | TRUE |
| 2 | 189156396 - 189460653 | | TRUE | TRUE |
| 2 | 189156396 - 189460653 | F - 7.69% | TRUE | TRUE |
| 2 | 189156396 - 189460653 | F - 3.85% | TRUE | TRUE |
| 2 | 189156396 - 189460653 | F - 3.85% | TRUE | TRUE |
| 2 | 189156396 - 189460653 | | TRUE | TRUE |
| 2 | 189156396 - 189460653 | F - 23.08% | TRUE | TRUE |
| 2 | 189156396 - 189460653 | F - 19.23% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | FALSE |
| 8 | 141667999 - 142012315 | | TRUE | FALSE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | FALSE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 6.76% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 8 | 141667999 - 142012315 | F - 18.92% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 2.70% | TRUE | FALSE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 2.70% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 4.05% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 5.41% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 43.24% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | FALSE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 43.24% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 2.70% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 28.38% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 27.03% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 24.32% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | FALSE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 31.08% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | FALSE | TRUE |
| 8 | 141667999 - 142012315 | F - 40.54% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 27.03% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 1.35% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 40.54% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | T - 52.70% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 31.08% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 4.05% | TRUE | TRUE |
| 8 | 141667999 - 142012315 | | TRUE | TRUE |
| 8 | 141667999 - 142012315 | F - 4.05% | FALSE | TRUE |
| 8 | 141667999 - 142012315 | | FALSE | TRUE |
| 10 | 77191211 - 78318978 | | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 10.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 30.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | | TRUE | FALSE |
| 10 | 77191211 - 78318978 | F - 10.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 40.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 30.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | | TRUE | FALSE |
| 10 | 77191211 - 78318978 | | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 10.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 10.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 10 | 77191211 - 78318978 | | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 20.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | F - 10.00% | TRUE | TRUE |
| 10 | 77191211 - 78318978 | | TRUE | TRUE |
| 10 | 77191211 - 78318978 | | TRUE | TRUE |
| 17 | 55162551 - 55198710 | | TRUE | TRUE |
| 17 | 55162551 - 55198710 | F - 38.46% | TRUE | TRUE |
| 17 | 55162551 - 55198710 | F - 23.08% | TRUE | TRUE |
| 17 | 55162551 - 55198710 | F - 15.38% | TRUE | TRUE |
| 17 | 55162551 - 55198710 | F - 15.38% | FALSE | TRUE |
| 17 | 55162551 - 55198710 | | TRUE | TRUE |
| 17 | 55162551 - 55198710 | F - 23.08% | TRUE | TRUE |
| 17 | 55162551 - 55198710 | | FALSE | TRUE |
| 17 | 55162551 - 55198710 | F - 46.15% | TRUE | TRUE |
| 17 | 55162551 - 55198710 | | FALSE | TRUE |
| 17 | 55162551 - 55198710 | F - 23.08% | FALSE | TRUE |
| 17 | 55162551 - 55198710 | F - 30.77% | TRUE | TRUE |
| 17 | 55162551 - 55198710 | | FALSE | TRUE |
| 17 | 55162551 - 55198710 | | FALSE | TRUE |
| 17 | 61509665 - 61523722 | | TRUE | TRUE |
| 17 | 61509665 - 61523722 | F - 18.75% | TRUE | FALSE |
| 17 | 61509665 - 61523722 | | TRUE | FALSE |
| 22 | 23412540 - 23467224 | | TRUE | FALSE |
| 22 | 23412540 - 23467224 | T - 55.56% | TRUE | TRUE |
| 22 | 23412540 - 23467224 | F - 22.22% | TRUE | TRUE |
| 22 | 23412540 - 23467224 | | TRUE | TRUE |
| 22 | 23412540 - 23467224 | T - 66.67% | TRUE | TRUE |
| 22 | 23412540 - 23467224 | | TRUE | TRUE |
| 22 | 23412540 - 23467224 | T - 77.78% | TRUE | TRUE |
| 1 | 100111431 - 100178513 | | TRUE | FALSE |
| 1 | 100111431 - 100178513 | F - 16.67% | TRUE | TRUE |
| 1 | 100111431 - 100178513 | F - 33.33% | TRUE | TRUE |
| 1 | 100111431 - 100178513 | | TRUE | TRUE |
| 1 | 230193536 - 230417875 | | TRUE | TRUE |
| 1 | 230193536 - 230417875 | F - 15.38% | TRUE | TRUE |
| 1 | 230193536 - 230417875 | | TRUE | TRUE |
| 1 | 230193536 - 230417875 | | TRUE | TRUE |
| 1 | 230193536 - 230417875 | F - 7.69% | TRUE | TRUE |
| 1 | 230193536 - 230417875 | F - 15.38% | TRUE | TRUE |
| 1 | 230193536 - 230417875 | | FALSE | TRUE |
| 1 | 153591263 - 153606873 | | TRUE | FALSE |
| 1 | 153591263 - 153606873 | F - 27.27% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | | TRUE | TRUE |
| 1 | 153591263 - 153606873 | | TRUE | FALSE |
| 1 | 153591263 - 153606873 | F - 22.73% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 4.55% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 9.09% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 22.73% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 27.27% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 4.55% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 18.18% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 9.09% | TRUE | TRUE |
| 1 | 153591263 - 153606873 | | TRUE | TRUE |
| 1 | 153591263 - 153606873 | | TRUE | TRUE |
| 1 | 153591263 - 153606873 | F - 22.73% | TRUE | TRUE |
| 6 | 74104285 - 74127292 | | TRUE | FALSE |
| 6 | 74104285 - 74127292 | T - 71.43% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 6 | 74104285 - 74127292 | | TRUE | FALSE |
| 6 | 74104285 - 74127292 | F - 42.86% | FALSE | TRUE |
| 6 | 74104285 - 74127292 | T - 57.14% | FALSE | TRUE |
| 6 | 74104285 - 74127292 | T - 57.14% | TRUE | TRUE |
| 6 | 74104285 - 74127292 | | TRUE | TRUE |
| 6 | 74104285 - 74127292 | | TRUE | TRUE |
| 6 | 74104285 - 74127292 | F - 42.86% | FALSE | TRUE |
| 6 | 74104285 - 74127292 | F - 14.29% | FALSE | TRUE |
| 6 | 74104285 - 74127292 | T - 85.71% | FALSE | TRUE |
| 6 | 74104285 - 74127292 | F - 42.86% | TRUE | TRUE |
| 6 | 74104285 - 74127292 | | FALSE | TRUE |
| 7 | 766338 - 829190 | | TRUE | TRUE |
| 7 | 766338 - 829190 | | TRUE | TRUE |
| 7 | 766338 - 829190 | | TRUE | TRUE |
| 7 | 766338 - 829190 | | TRUE | TRUE |
| 7 | 766338 - 829190 | F - 6.25% | TRUE | TRUE |
| 7 | 766338 - 829190 | F - 37.50% | TRUE | TRUE |
| 7 | 766338 - 829190 | F - 6.25% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | | TRUE | TRUE |
| 7 | 31790793 - 32338941 | | TRUE | TRUE |
| 7 | 31790793 - 32338941 | F - 10.53% | FALSE | TRUE |
| 7 | 31790793 - 32338941 | F - 10.53% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | F - 5.26% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | F - 31.58% | FALSE | TRUE |
| 7 | 31790793 - 32338941 | F - 5.26% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | F - 15.79% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | F - 5.26% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | | FALSE | TRUE |
| 7 | 31790793 - 32338941 | F - 21.05% | TRUE | TRUE |
| 7 | 31790793 - 32338941 | | TRUE | TRUE |
| 7 | 81575760 - 82073114 | | TRUE | TRUE |
| 7 | 81575760 - 82073114 | | TRUE | TRUE |
| 7 | 81575760 - 82073114 | | TRUE | TRUE |
| 7 | 81575760 - 82073114 | | TRUE | TRUE |
| 7 | 81575760 - 82073114 | | TRUE | TRUE |
| 7 | 81575760 - 82073114 | F - 33.33% | TRUE | TRUE |
| 7 | 81575760 - 82073114 | | FALSE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | FALSE |
| 10 | 125465726 - 125699783 | | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | TRUE |
| 10 | 125465726 - 125699783 | F - 18.18% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | FALSE |
| 10 | 125465726 - 125699783 | F - 18.18% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | F - 18.18% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | T - 54.55% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | TRUE |
| 10 | 125465726 - 125699783 | F - 27.27% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | F - 27.27% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | TRUE |
| 10 | 125465726 - 125699783 | T - 72.73% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | TRUE | TRUE |
| 10 | 125465726 - 125699783 | T - 90.91% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | T - 90.91% | TRUE | TRUE |
| 10 | 125465726 - 125699783 | | FALSE | TRUE |
| 1 | 171810621 - 172387606 | T - 53.33% | TRUE | TRUE |
| 1 | 171810621 - 172387606 | | TRUE | TRUE |
| 1 | 171810621 - 172387606 | T - 53.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 171810621 - 172387606 | T - 53.33% | TRUE | TRUE |
| 1 | 171810621 - 172387606 | | FALSE | TRUE |
| 1 | 171810621 - 172387606 | | FALSE | TRUE |
| 1 | 171810621 - 172387606 | | FALSE | TRUE |
| 9 | 123963761 - 124095121 | | TRUE | TRUE |
| 9 | 123963761 - 124095121 | | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 10.00% | TRUE | FALSE |
| 9 | 123963761 - 124095121 | F - 10.00% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 10.00% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 6.67% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 3.33% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 3.33% | FALSE | TRUE |
| 9 | 123963761 - 124095121 | F - 3.33% | FALSE | TRUE |
| 9 | 123963761 - 124095121 | | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 6.67% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 3.33% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 10.00% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | T - 53.33% | FALSE | TRUE |
| 9 | 123963761 - 124095121 | F - 40.00% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 6.67% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | | TRUE | TRUE |
| 9 | 123963761 - 124095121 | F - 3.33% | TRUE | TRUE |
| 9 | 123963761 - 124095121 | | FALSE | TRUE |
| 9 | 103235395 - 103339918 | T - 100.00% | TRUE | TRUE |
| 9 | 103235395 - 103339918 | | TRUE | TRUE |
| 9 | 103235395 - 103339918 | F - 33.33% | TRUE | TRUE |
| 9 | 103235395 - 103339918 | | TRUE | TRUE |
| 9 | 103235395 - 103339918 | T - 66.67% | TRUE | TRUE |
| 9 | 103235395 - 103339918 | T - 100.00% | FALSE | TRUE |
| 9 | 103235395 - 103339918 | | TRUE | TRUE |
| 9 | 103235395 - 103339918 | | TRUE | TRUE |
| 9 | 103235395 - 103339918 | | TRUE | TRUE |
| 17 | 67240576 - 67323323 | | TRUE | FALSE |
| 17 | 67240576 - 67323323 | | TRUE | FALSE |
| 17 | 67240576 - 67323323 | | TRUE | FALSE |
| 17 | 67240576 - 67323323 | T - 70.00% | FALSE | TRUE |
| 17 | 67240576 - 67323323 | T - 80.00% | FALSE | TRUE |
| 17 | 67240576 - 67323323 | | TRUE | TRUE |
| 17 | 67240576 - 67323323 | T - 80.00% | FALSE | TRUE |
| 17 | 67240576 - 67323323 | F - 20.00% | FALSE | TRUE |
| 20 | 35380194 - 35402230 | | TRUE | TRUE |
| 20 | 35380194 - 35402230 | T - 89.47% | TRUE | TRUE |
| 20 | 35380194 - 35402230 | F - 26.32% | TRUE | TRUE |
| 20 | 35380194 - 35402230 | T - 63.16% | TRUE | TRUE |
| 20 | 35380194 - 35402230 | | FALSE | TRUE |
| 20 | 35380194 - 35402230 | | TRUE | TRUE |
| 9 | 41588833 - 41609544 | | FALSE | TRUE |
| 9 | 41588833 - 41609544 | F - 33.33% | TRUE | TRUE |
| 9 | 41588833 - 41609544 | F - 33.33% | FALSE | TRUE |
| 9 | 41588833 - 41609544 | F - 33.33% | TRUE | TRUE |
| 9 | 41588833 - 41609544 | T - 66.67% | TRUE | TRUE |
| X | 131211021 - 131262050 | | TRUE | FALSE |
| X | 131211021 - 131262050 | T - 85.71% | TRUE | FALSE |
| X | 131211021 - 131262050 | T - 71.43% | TRUE | TRUE |
| X | 131211021 - 131262050 | T - 85.71% | TRUE | TRUE |
| X | 131211021 - 131262050 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| X | 131211021 - 131262050 | | FALSE | TRUE |
| X | 131211021 - 131262050 | | TRUE | TRUE |
| 14 | 69340840 - 69446157 | | TRUE | TRUE |
| 14 | 69340840 - 69446157 | F - 12.50% | TRUE | TRUE |
| 14 | 69340840 - 69446157 | | TRUE | FALSE |
| 14 | 69340840 - 69446157 | | TRUE | TRUE |
| 2 | 239969864 - 240323348 | | TRUE | FALSE |
| 2 | 239969864 - 240323348 | | TRUE | TRUE |
| 2 | 239969864 - 240323348 | | TRUE | FALSE |
| 2 | 239969864 - 240323348 | | FALSE | TRUE |
| 2 | 239969864 - 240323348 | | FALSE | TRUE |
| 2 | 239969864 - 240323348 | T - 52.00% | TRUE | TRUE |
| 2 | 239969864 - 240323348 | F - 4.00% | FALSE | TRUE |
| 2 | 239969864 - 240323348 | | FALSE | TRUE |
| 2 | 239969864 - 240323348 | F - 8.00% | FALSE | TRUE |
| 8 | 26149007 - 26230196 | | TRUE | TRUE |
| 8 | 26149007 - 26230196 | | TRUE | FALSE |
| 8 | 26149007 - 26230196 | | TRUE | TRUE |
| 8 | 26149007 - 26230196 | F - 3.57% | TRUE | TRUE |
| 9 | 112403068 - 112934792 | | TRUE | FALSE |
| 9 | 112403068 - 112934792 | | TRUE | FALSE |
| 9 | 112403068 - 112934792 | F - 18.75% | TRUE | TRUE |
| 9 | 112403068 - 112934792 | | TRUE | TRUE |
| 9 | 112403068 - 112934792 | F - 37.50% | TRUE | TRUE |
| 9 | 112403068 - 112934792 | | TRUE | TRUE |
| 9 | 112403068 - 112934792 | F - 15.63% | FALSE | TRUE |
| 5 | 96211643 - 96255420 | T - 66.67% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | T - 72.22% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | | TRUE | FALSE |
| 5 | 96211643 - 96255420 | | TRUE | FALSE |
| 5 | 96211643 - 96255420 | T - 66.67% | TRUE | FALSE |
| 5 | 96211643 - 96255420 | T - 72.22% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | | TRUE | FALSE |
| 5 | 96211643 - 96255420 | F - 5.56% | TRUE | FALSE |
| 5 | 96211643 - 96255420 | T - 55.56% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | F - 5.56% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | T - 61.11% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | T - 72.22% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | F - 5.56% | FALSE | TRUE |
| 5 | 96211643 - 96255420 | F - 33.33% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | F - 16.67% | TRUE | TRUE |
| 5 | 96211643 - 96255420 | F - 5.56% | FALSE | TRUE |
| 6 | 46517445 - 46620523 | | TRUE | TRUE |
| 6 | 46517445 - 46620523 | | FALSE | TRUE |
| 6 | 46517445 - 46620523 | | FALSE | TRUE |
| 6 | 46517445 - 46620523 | T - 62.50% | TRUE | TRUE |
| 6 | 46517445 - 46620523 | F - 12.50% | FALSE | TRUE |
| 6 | 46517445 - 46620523 | | TRUE | TRUE |
| 7 | 8008423 - 8133902 | F - 7.14% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | | TRUE | FALSE |
| 7 | 8008423 - 8133902 | F - 7.14% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | F - 21.43% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | | TRUE | TRUE |
| 7 | 8008423 - 8133902 | T - 50.00% | FALSE | TRUE |
| 7 | 8008423 - 8133902 | F - 7.14% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | | TRUE | TRUE |
| 7 | 8008423 - 8133902 | | TRUE | TRUE |
| 7 | 8008423 - 8133902 | F - 7.14% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 8008423 - 8133902 | F - 7.14% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | | TRUE | TRUE |
| 7 | 8008423 - 8133902 | F - 35.71% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | F - 7.14% | TRUE | TRUE |
| 7 | 8008423 - 8133902 | | TRUE | TRUE |
| 7 | 8008423 - 8133902 | F - 28.57% | FALSE | TRUE |
| 11 | 88026760 - 88070955 | | TRUE | TRUE |
| 11 | 88026760 - 88070955 | | TRUE | TRUE |
| 11 | 88026760 - 88070955 | | TRUE | TRUE |
| 11 | 88026760 - 88070955 | T - 55.56% | TRUE | TRUE |
| 11 | 88026760 - 88070955 | F - 44.44% | TRUE | TRUE |
| 11 | 88026760 - 88070955 | | TRUE | TRUE |
| 11 | 88026760 - 88070955 | | FALSE | TRUE |
| 11 | 88026760 - 88070955 | F - 33.33% | TRUE | TRUE |
| 11 | 88026760 - 88070955 | | FALSE | TRUE |
| 11 | 126164193 - 126174213 | | TRUE | FALSE |
| 11 | 126164193 - 126174213 | T - 50.00% | TRUE | TRUE |
| 11 | 126164193 - 126174213 | T - 50.00% | TRUE | TRUE |
| 17 | 46671639 - 46682354 | | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 70.00% | TRUE | TRUE |
| 17 | 46671639 - 46682354 | F - 10.00% | TRUE | TRUE |
| 17 | 46671639 - 46682354 | | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 60.00% | FALSE | TRUE |
| 17 | 46671639 - 46682354 | | TRUE | TRUE |
| 17 | 46671639 - 46682354 | | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 90.00% | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 70.00% | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 80.00% | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 60.00% | FALSE | TRUE |
| 17 | 46671639 - 46682354 | F - 10.00% | FALSE | TRUE |
| 17 | 46671639 - 46682354 | | TRUE | TRUE |
| 17 | 46671639 - 46682354 | T - 50.00% | TRUE | TRUE |
| 21 | 40752170 - 40800454 | | TRUE | FALSE |
| 21 | 40752170 - 40800454 | | TRUE | TRUE |
| 21 | 40752170 - 40800454 | | TRUE | TRUE |
| 21 | 40752170 - 40800454 | | TRUE | TRUE |
| 21 | 40752170 - 40800454 | | TRUE | TRUE |
| 21 | 40752170 - 40800454 | F - 26.09% | TRUE | TRUE |
| 21 | 40752170 - 40800454 | F - 21.74% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | | TRUE | TRUE |
| 22 | 39436609 - 39451975 | F - 25.00% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | F - 37.50% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | F - 25.00% | FALSE | TRUE |
| 22 | 39436609 - 39451975 | T - 62.50% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | F - 12.50% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | T - 62.50% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | F - 12.50% | TRUE | TRUE |
| 22 | 39436609 - 39451975 | | TRUE | TRUE |
| 22 | 39436609 - 39451975 | | FALSE | TRUE |
| 1 | 40026485 - 40042521 | | TRUE | FALSE |
| 1 | 40026485 - 40042521 | F - 4.17% | TRUE | TRUE |
| 1 | 40026485 - 40042521 | F - 12.50% | TRUE | TRUE |
| 1 | 40026485 - 40042521 | F - 16.67% | TRUE | TRUE |
| 1 | 40026485 - 40042521 | F - 12.50% | TRUE | TRUE |
| 1 | 40026485 - 40042521 | F - 41.67% | TRUE | TRUE |
| 1 | 115828537 - 115880857 | T - 80.00% | TRUE | FALSE |
| 1 | 115828537 - 115880857 | F - 40.00% | TRUE | TRUE |
| 1 | 115828537 - 115880857 | T - 80.00% | FALSE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 115828537 - 115880857 | | TRUE | TRUE |
| 3 | 117397540 - 117409779 | T - 66.67% | TRUE | TRUE |
| 3 | 117397540 - 117409779 | F - 33.33% | TRUE | TRUE |
| 3 | 117397540 - 117409779 | F - 33.33% | TRUE | TRUE |
| 3 | 117397540 - 117409779 | F - 33.33% | TRUE | TRUE |
| 3 | 117397540 - 117409779 | T - 66.67% | TRUE | TRUE |
| 3 | 117397540 - 117409779 | F - 33.33% | FALSE | TRUE |
| 3 | 117397540 - 117409779 | | TRUE | TRUE |
| 4 | 78432907 - 78532988 | T - 100.00% | TRUE | TRUE |
| 4 | 78432907 - 78532988 | | TRUE | FALSE |
| 4 | 78432907 - 78532988 | T - 100.00% | TRUE | TRUE |
| 4 | 78432907 - 78532988 | | TRUE | FALSE |
| 4 | 78432907 - 78532988 | F - 33.33% | FALSE | TRUE |
| 4 | 47849257 - 47916680 | | TRUE | FALSE |
| 4 | 47849257 - 47916680 | T - 78.57% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | T - 85.71% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | | TRUE | TRUE |
| 4 | 47849257 - 47916680 | T - 92.86% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | | TRUE | FALSE |
| 4 | 47849257 - 47916680 | T - 71.43% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | T - 92.86% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | T - 71.43% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | | TRUE | TRUE |
| 4 | 47849257 - 47916680 | | FALSE | TRUE |
| 4 | 47849257 - 47916680 | F - 14.29% | TRUE | TRUE |
| 4 | 47849257 - 47916680 | | FALSE | TRUE |
| 5 | 131527531 - 131631008 | | TRUE | FALSE |
| 5 | 131527531 - 131631008 | | TRUE | TRUE |
| 5 | 131527531 - 131631008 | | FALSE | TRUE |
| 5 | 131527531 - 131631008 | F - 3.23% | TRUE | TRUE |
| 6 | 70385641 - 70507049 | | TRUE | FALSE |
| 6 | 70385641 - 70507049 | F - 12.50% | TRUE | TRUE |
| 6 | 70385641 - 70507049 | | TRUE | TRUE |
| 6 | 70385641 - 70507049 | T - 50.00% | TRUE | TRUE |
| 7 | 139993493 - 140104233 | | TRUE | FALSE |
| 7 | 139993493 - 140104233 | F - 2.70% | TRUE | TRUE |
| 7 | 139993493 - 140104233 | F - 16.22% | TRUE | TRUE |
| 7 | 139993493 - 140104233 | F - 43.24% | TRUE | TRUE |
| 7 | 139993493 - 140104233 | F - 37.84% | FALSE | TRUE |
| 7 | 139993493 - 140104233 | | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 5.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 5.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 10.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 5.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 5.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | T - 50.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 15.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | T - 55.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 30.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 30.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 35.00% | TRUE | TRUE |
| 1 | 21543740 - 21672034 | F - 35.00% | TRUE | TRUE |
| 2 | 231090444 - 231177930 | F - 4.76% | TRUE | TRUE |
| 2 | 231090444 - 231177930 | F - 38.10% | TRUE | TRUE |
| 2 | 231090444 - 231177930 | | TRUE | FALSE |
| 2 | 231090444 - 231177930 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 2 | 231090444 - 231177930 | | FALSE | TRUE |
| | 3 | 9022275 - 9404987 | | TRUE | TRUE |
| | 3 | 9022275 - 9404987 | | TRUE | FALSE |
| | 3 | 9022275 - 9404987 | | TRUE | TRUE |
| | 3 | 9022275 - 9404987 | F - 9.09% | TRUE | FALSE |
| | 3 | 9022275 - 9404987 | F - 27.27% | TRUE | TRUE |
| | 3 | 9022275 - 9404987 | | TRUE | TRUE |
| | 3 | 9022275 - 9404987 | | TRUE | TRUE |
| | 3 | 9022275 - 9404987 | | TRUE | FALSE |
| | 3 | 9022275 - 9404987 | | TRUE | TRUE |
| | 3 | 9022275 - 9404987 | | TRUE | TRUE |
| | 6 | 46188467 - 46459804 | F - 25.00% | TRUE | TRUE |
| | 6 | 46188467 - 46459804 | F - 12.50% | TRUE | TRUE |
| | 6 | 46188467 - 46459804 | F - 12.50% | TRUE | TRUE |
| | 6 | 46188467 - 46459804 | F - 37.50% | TRUE | TRUE |
| | 6 | 46188467 - 46459804 | F - 25.00% | FALSE | TRUE |
| | 6 | 46188467 - 46459804 | T - 75.00% | TRUE | TRUE |
| | 6 | 46188467 - 46459804 | | TRUE | TRUE |
| | 20 | 251504 - 271419 | | TRUE | FALSE |
| | 20 | 251504 - 271419 | F - 36.36% | TRUE | TRUE |
| | 20 | 251504 - 271419 | | FALSE | TRUE |
| | 20 | 251504 - 271419 | | FALSE | TRUE |
| | 2 | 216582766 - 216584147 | | TRUE | FALSE |
| | 2 | 216582766 - 216584147 | T - 100.00% | TRUE | TRUE |
| | 2 | 216582766 - 216584147 | T - 100.00% | TRUE | TRUE |
| | 4 | 77558776 - 77565521 | T - 100.00% | FALSE | TRUE |
| | 4 | 77558776 - 77565521 | | TRUE | TRUE |
| | 4 | 77558776 - 77565521 | T - 100.00% | TRUE | TRUE |
| | 4 | 77558776 - 77565521 | T - 100.00% | TRUE | TRUE |
| | 8 | 6565878 - 6619021 | T - 66.67% | TRUE | TRUE |
| | 8 | 6565878 - 6619021 | F - 44.44% | TRUE | TRUE |
| | 8 | 6565878 - 6619021 | T - 55.56% | TRUE | TRUE |
| | 8 | 6565878 - 6619021 | | TRUE | TRUE |
| | 8 | 6565878 - 6619021 | | TRUE | TRUE |
| X | | 128779236 - 128788933 | T - 75.00% | TRUE | TRUE |
| X | | 128779236 - 128788933 | | FALSE | TRUE |
| X | | 128779236 - 128788933 | T - 100.00% | TRUE | TRUE |
| X | | 128779236 - 128788933 | T - 50.00% | FALSE | TRUE |
| | 14 | 95648276 - 95786245 | F - 33.33% | TRUE | TRUE |
| | 14 | 95648276 - 95786245 | | TRUE | TRUE |
| | 14 | 95648276 - 95786245 | F - 16.67% | TRUE | TRUE |
| | 14 | 95648276 - 95786245 | | FALSE | TRUE |
| | 14 | 95648276 - 95786245 | F - 33.33% | FALSE | TRUE |
| | 14 | 95648276 - 95786245 | F - 16.67% | FALSE | TRUE |
| | 14 | 95648276 - 95786245 | F - 33.33% | TRUE | TRUE |
| | 14 | 95648276 - 95786245 | F - 16.67% | FALSE | TRUE |
| | 14 | 95648276 - 95786245 | T - 50.00% | TRUE | TRUE |
| | 14 | 95648276 - 95786245 | | TRUE | TRUE |
| | 14 | 95648276 - 95786245 | T - 50.00% | FALSE | TRUE |
| | 14 | 95648276 - 95786245 | T - 83.33% | FALSE | TRUE |
| | 2 | 196440701 - 196602426 | F - 15.38% | TRUE | TRUE |
| | 2 | 196440701 - 196602426 | | FALSE | TRUE |
| | 2 | 196440701 - 196602426 | | TRUE | TRUE |
| | 2 | 196440701 - 196602426 | F - 7.69% | TRUE | TRUE |
| | 2 | 196440701 - 196602426 | | FALSE | TRUE |
| | 2 | 196440701 - 196602426 | | FALSE | TRUE |
| | 2 | 196440701 - 196602426 | F - 7.69% | TRUE | TRUE |
| | 2 | 196440701 - 196602426 | F - 7.69% | FALSE | TRUE |

| | | | | |
|------------|---------------------|------------|-------|-------|
| 7 | 13930853 - 14031050 | | TRUE | FALSE |
| 7 | 13930853 - 14031050 | | TRUE | TRUE |
| 7 | 13930853 - 14031050 | | FALSE | TRUE |
| 7 | 13930853 - 14031050 | | TRUE | TRUE |
| 7 | 13930853 - 14031050 | F - 2.04% | TRUE | TRUE |
| 7 | 13930853 - 14031050 | F - 8.16% | TRUE | TRUE |
| 7 | 13930853 - 14031050 | | TRUE | TRUE |
| 7 | 13930853 - 14031050 | F - 10.20% | TRUE | TRUE |
| 7 | 13930853 - 14031050 | F - 8.16% | TRUE | TRUE |
| 7 | 13930853 - 14031050 | T - 73.47% | TRUE | TRUE |
| 7 | 13930853 - 14031050 | T - 53.06% | TRUE | TRUE |
| 7 | 13930853 - 14031050 | F - 18.37% | FALSE | TRUE |
| 7 | 13930853 - 14031050 | T - 67.35% | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | F - 7.69% | TRUE | TRUE |
| 6 | 31367561 - 31384016 | F - 46.15% | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | F - 30.77% | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | F - 38.46% | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 6 | 31367561 - 31384016 | | FALSE | TRUE |
| 6 | 31367561 - 31384016 | F - 7.69% | FALSE | TRUE |
| 6 | 31367561 - 31384016 | | TRUE | TRUE |
| 10 | 13685706 - 14504143 | | TRUE | FALSE |
| 10 | 13685706 - 14504143 | F - 5.00% | TRUE | FALSE |
| 10 | 13685706 - 14504143 | | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 20.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | | FALSE | TRUE |
| 10 | 13685706 - 14504143 | | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 5.00% | FALSE | TRUE |
| 10 | 13685706 - 14504143 | F - 15.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | | FALSE | TRUE |
| 10 | 13685706 - 14504143 | F - 45.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 30.00% | FALSE | TRUE |
| 10 | 13685706 - 14504143 | F - 5.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 10.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 10.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 5.00% | TRUE | TRUE |
| 10 | 13685706 - 14504143 | | TRUE | TRUE |
| 10 | 13685706 - 14504143 | | TRUE | TRUE |
| 10 | 13685706 - 14504143 | F - 10.00% | FALSE | TRUE |
| 10 | 13685706 - 14504143 | F - 15.00% | FALSE | TRUE |
| 10 | 13685706 - 14504143 | | FALSE | TRUE |
| 10 | 13685706 - 14504143 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | F - 7.69% | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | F - 46.15% | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | F - 30.77% | FALSE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | F - 38.46% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | FALSE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | F - 7.69% | FALSE | TRUE |
| 6_cox_hap2 | 2880257 - 2896716 | | TRUE | TRUE |
| 6_qbl_hap6 | 1150076 - 1153536 | F - 33.33% | TRUE | TRUE |
| 6_qbl_hap6 | 1150076 - 1153536 | | TRUE | TRUE |
| 6_qbl_hap6 | 1150076 - 1153536 | | FALSE | TRUE |
| 6_qbl_hap6 | 1150076 - 1153536 | F - 33.33% | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | F - 7.69% | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | F - 46.15% | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | F - 30.77% | FALSE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | F - 38.46% | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | FALSE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | F - 7.69% | FALSE | TRUE |
| 6_ssto_hap7 | 2701359 - 2717814 | | TRUE | TRUE |
| 5 | 39371776 - 39462402 | | TRUE | FALSE |
| 5 | 39371776 - 39462402 | | TRUE | TRUE |
| 5 | 39371776 - 39462402 | | TRUE | TRUE |
| 5 | 39371776 - 39462402 | | FALSE | TRUE |
| 5 | 39371776 - 39462402 | | TRUE | TRUE |
| 5 | 39371776 - 39462402 | F - 4.76% | TRUE | TRUE |
| 8 | 99413631 - 99955055 | | TRUE | FALSE |
| 8 | 99413631 - 99955055 | | TRUE | FALSE |
| 8 | 99413631 - 99955055 | | TRUE | FALSE |
| 8 | 99413631 - 99955055 | F - 4.17% | TRUE | TRUE |
| 8 | 99413631 - 99955055 | | TRUE | TRUE |
| 9 | 101569980 - 101612363 | | TRUE | TRUE |
| 9 | 101569980 - 101612363 | F - 33.33% | TRUE | TRUE |
| 9 | 101569980 - 101612363 | | TRUE | TRUE |
| 9 | 101569980 - 101612363 | | TRUE | TRUE |
| 14 | 55033815 - 55260033 | | TRUE | FALSE |
| 14 | 55033815 - 55260033 | F - 7.14% | TRUE | TRUE |
| 14 | 55033815 - 55260033 | F - 7.14% | FALSE | TRUE |
| 14 | 55033815 - 55260033 | | TRUE | TRUE |
| 14 | 55033815 - 55260033 | | FALSE | TRUE |
| 14 | 55033815 - 55260033 | F - 7.14% | FALSE | TRUE |
| 14 | 55033815 - 55260033 | | FALSE | TRUE |
| 2 | 188328957 - 188430487 | | TRUE | TRUE |
| 2 | 188328957 - 188430487 | | TRUE | TRUE |
| 2 | 188328957 - 188430487 | | FALSE | TRUE |
| 2 | 188328957 - 188430487 | | TRUE | TRUE |
| 2 | 188328957 - 188430487 | F - 5.88% | FALSE | TRUE |
| 2 | 188328957 - 188430487 | F - 5.88% | TRUE | TRUE |
| 2 | 188328957 - 188430487 | | TRUE | TRUE |
| 2 | 188328957 - 188430487 | F - 5.88% | TRUE | TRUE |
| 5 | 73923234 - 73937249 | F - 25.00% | TRUE | TRUE |
| 5 | 73923234 - 73937249 | F - 12.50% | TRUE | FALSE |
| 5 | 73923234 - 73937249 | | TRUE | TRUE |
| 6 | 148593440 - 148873186 | | TRUE | TRUE |
| 6 | 148593440 - 148873186 | F - 11.11% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 6 | 148593440 - 148873186 | F - 33.33% | TRUE | TRUE |
| | 6 | 148593440 - 148873186 | F - 11.11% | FALSE | TRUE |
| | 6 | 148593440 - 148873186 | F - 22.22% | TRUE | TRUE |
| | 6 | 148593440 - 148873186 | F - 22.22% | TRUE | TRUE |
| X | | 9754496 - 9917483 | F - 30.00% | TRUE | TRUE |
| X | | 9754496 - 9917483 | | TRUE | TRUE |
| X | | 9754496 - 9917483 | F - 30.00% | TRUE | TRUE |
| X | | 9754496 - 9917483 | F - 30.00% | TRUE | TRUE |
| X | | 9754496 - 9917483 | T - 90.00% | TRUE | TRUE |
| X | | 9754496 - 9917483 | | FALSE | TRUE |
| X | | 9754496 - 9917483 | F - 30.00% | FALSE | TRUE |
| X | | 9754496 - 9917483 | | FALSE | TRUE |
| X | | 9754496 - 9917483 | | TRUE | TRUE |
| X | | 9754496 - 9917483 | F - 30.00% | TRUE | TRUE |
| X | | 9754496 - 9917483 | | FALSE | TRUE |
| X | | 9754496 - 9917483 | | FALSE | TRUE |
| X | | 9754496 - 9917483 | T - 60.00% | TRUE | TRUE |
| X | | 9754496 - 9917483 | F - 10.00% | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | T - 90.00% | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | F - 10.00% | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | T - 60.00% | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | T - 50.00% | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | F - 10.00% | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | F - 40.00% | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | T - 70.00% | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | T - 90.00% | TRUE | TRUE |
| | 11 | 126293254 - 126873355 | | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | T - 70.00% | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | | FALSE | TRUE |
| | 11 | 126293254 - 126873355 | | FALSE | TRUE |
| | 15 | 37181409 - 37393504 | | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 14.81% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 3.70% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 7.41% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 22.22% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 14.81% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | T - 77.78% | FALSE | TRUE |
| | 15 | 37181409 - 37393504 | F - 33.33% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 3.70% | FALSE | TRUE |
| | 15 | 37181409 - 37393504 | F - 25.93% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 37.04% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | T - 81.48% | FALSE | TRUE |
| | 15 | 37181409 - 37393504 | | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | F - 11.11% | FALSE | TRUE |
| | 15 | 37181409 - 37393504 | F - 7.41% | TRUE | TRUE |
| | 15 | 37181409 - 37393504 | T - 81.48% | TRUE | TRUE |
| | 17 | 38544768 - 38574408 | | TRUE | TRUE |
| | 17 | 38544768 - 38574408 | | TRUE | TRUE |
| | 17 | 38544768 - 38574408 | | TRUE | TRUE |
| | 17 | 38544768 - 38574408 | F - 14.29% | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 17 | 38544768 - 38574408 | F - 28.57% | TRUE | TRUE |
| 17 | 38544768 - 38574408 | | FALSE | TRUE |
| 17 | 38544768 - 38574408 | F - 14.29% | TRUE | TRUE |
| 17 | 38544768 - 38574408 | | FALSE | TRUE |
| 17 | 38544768 - 38574408 | F - 42.86% | TRUE | TRUE |
| 17 | 38544768 - 38574408 | F - 14.29% | TRUE | TRUE |
| 17 | 38544768 - 38574408 | T - 85.71% | FALSE | TRUE |
| 17 | 38544768 - 38574408 | | FALSE | TRUE |
| 17 | 38544768 - 38574408 | T - 100.00% | FALSE | TRUE |
| 17 | 38544768 - 38574408 | F - 14.29% | FALSE | TRUE |
| 17 | 38544768 - 38574408 | T - 71.43% | FALSE | TRUE |
| 17 | 38544768 - 38574408 | | FALSE | TRUE |
| 17 | 38544768 - 38574408 | | TRUE | TRUE |
| 17 | 38544768 - 38574408 | T - 85.71% | TRUE | TRUE |
| 17 | 38544768 - 38574408 | | FALSE | TRUE |
| 2 | 71162998 - 71192561 | | TRUE | FALSE |
| 2 | 71162998 - 71192561 | | TRUE | FALSE |
| 2 | 71162998 - 71192561 | | TRUE | TRUE |
| 2 | 71162998 - 71192561 | T - 53.33% | TRUE | FALSE |
| 2 | 71162998 - 71192561 | | FALSE | TRUE |
| 11 | 22850968 - 22966939 | | TRUE | FALSE |
| 11 | 22850968 - 22966939 | T - 100.00% | TRUE | FALSE |
| 2 | 134877554 - 135212192 | | TRUE | TRUE |
| 2 | 134877554 - 135212192 | F - 42.86% | TRUE | TRUE |
| 2 | 134877554 - 135212192 | F - 42.86% | TRUE | TRUE |
| 2 | 134877554 - 135212192 | | TRUE | TRUE |
| 2 | 134877554 - 135212192 | | TRUE | TRUE |
| 16 | 75507022 - 75529282 | T - 66.67% | TRUE | FALSE |
| 16 | 75507022 - 75529282 | | TRUE | FALSE |
| 16 | 75507022 - 75529282 | F - 16.67% | TRUE | FALSE |
| 16 | 75507022 - 75529282 | T - 83.33% | TRUE | TRUE |
| 16 | 75507022 - 75529282 | T - 50.00% | TRUE | TRUE |
| 19 | 53115618 - 53193886 | | TRUE | FALSE |
| 19 | 53115618 - 53193886 | | TRUE | TRUE |
| 19 | 53115618 - 53193886 | | TRUE | TRUE |
| 19 | 53115618 - 53193886 | | TRUE | FALSE |
| 19 | 53115618 - 53193886 | | TRUE | TRUE |
| 19 | 53115618 - 53193886 | T - 59.09% | TRUE | TRUE |
| 20 | 33432523 - 33460663 | | TRUE | TRUE |
| 20 | 33432523 - 33460663 | F - 11.11% | TRUE | TRUE |
| 20 | 33432523 - 33460663 | | TRUE | TRUE |
| 20 | 33432523 - 33460663 | | TRUE | TRUE |
| 1 | 144676437 - 145076186 | | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 5.88% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 2.94% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 4.41% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 2.94% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 2.94% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 1.47% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 1.47% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | F - 1.47% | TRUE | TRUE |
| 1 | 144676437 - 145076186 | | TRUE | TRUE |
| 14 | 77940738 - 77965210 | T - 78.57% | TRUE | FALSE |
| 14 | 77940738 - 77965210 | | FALSE | TRUE |
| 8 | 26362196 - 26371608 | | TRUE | TRUE |
| 8 | 26362196 - 26371608 | | TRUE | TRUE |
| 8 | 26362196 - 26371608 | T - 71.43% | TRUE | TRUE |
| 8 | 26362196 - 26371608 | F - 14.29% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 8 | 26362196 - 26371608 | F - 14.29% | TRUE | TRUE |
| | 8 | 26362196 - 26371608 | F - 42.86% | TRUE | TRUE |
| | 8 | 26362196 - 26371608 | F - 28.57% | TRUE | TRUE |
| | 8 | 26362196 - 26371608 | F - 21.43% | TRUE | TRUE |
| | 8 | 26362196 - 26371608 | F - 28.57% | TRUE | TRUE |
| | 8 | 26362196 - 26371608 | F - 35.71% | TRUE | TRUE |
| | 8 | 26362196 - 26371608 | F - 21.43% | TRUE | TRUE |
| | 12 | 22601517 - 22697480 | | TRUE | FALSE |
| | 12 | 22601517 - 22697480 | | TRUE | TRUE |
| | 12 | 22601517 - 22697480 | | TRUE | TRUE |
| | 12 | 22601517 - 22697480 | T - 66.67% | FALSE | TRUE |
| | 12 | 22601517 - 22697480 | | FALSE | TRUE |
| | 19 | 19649074 - 19657468 | | TRUE | FALSE |
| | 19 | 19649074 - 19657468 | | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | T - 100.00% | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | T - 100.00% | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | T - 100.00% | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | T - 100.00% | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | | TRUE | TRUE |
| | 19 | 19649074 - 19657468 | | TRUE | TRUE |
| | 14 | 61447832 - 61550451 | | TRUE | FALSE |
| | 14 | 61447832 - 61550451 | | TRUE | FALSE |
| | 14 | 61447832 - 61550451 | F - 35.71% | TRUE | TRUE |
| | 14 | 61447832 - 61550451 | F - 7.14% | TRUE | TRUE |
| | 14 | 61447832 - 61550451 | | TRUE | TRUE |
| | 14 | 61447832 - 61550451 | | TRUE | TRUE |
| | 14 | 61447832 - 61550451 | | TRUE | TRUE |
| | 14 | 61447832 - 61550451 | | TRUE | TRUE |
| | 5 | 150088002 - 150138671 | | TRUE | TRUE |
| | 5 | 150088002 - 150138671 | | TRUE | TRUE |
| | 5 | 150088002 - 150138671 | | TRUE | TRUE |
| | 5 | 150088002 - 150138671 | F - 10.00% | TRUE | TRUE |
| | 5 | 150088002 - 150138671 | F - 5.00% | FALSE | TRUE |
| | 6 | 71377479 - 71571718 | | TRUE | TRUE |
| | 6 | 71377479 - 71571718 | F - 21.43% | TRUE | TRUE |
| | 1 | 42929001 - 43120335 | | TRUE | TRUE |
| | 1 | 42929001 - 43120335 | F - 15.00% | TRUE | TRUE |
| | 1 | 42929001 - 43120335 | F - 45.00% | TRUE | TRUE |
| | 1 | 42929001 - 43120335 | F - 20.00% | TRUE | TRUE |
| | 1 | 42929001 - 43120335 | F - 40.00% | TRUE | FALSE |
| | 1 | 42929001 - 43120335 | F - 20.00% | TRUE | TRUE |
| | 1 | 42929001 - 43120335 | | FALSE | TRUE |
| | 3 | 36421836 - 36589499 | | TRUE | FALSE |
| | 3 | 36421836 - 36589499 | | TRUE | TRUE |
| | 3 | 36421836 - 36589499 | T - 69.23% | TRUE | TRUE |
| X | | 137713734 - 138304939 | | TRUE | FALSE |
| X | | 137713734 - 138304939 | | TRUE | TRUE |
| X | | 137713734 - 138304939 | T - 94.44% | TRUE | TRUE |
| X | | 137713734 - 138304939 | | FALSE | TRUE |
| X | | 137713734 - 138304939 | | TRUE | TRUE |
| X | | 137713734 - 138304939 | T - 83.33% | TRUE | TRUE |
| X | | 137713734 - 138304939 | F - 5.56% | TRUE | TRUE |
| X | | 137713734 - 138304939 | F - 22.22% | TRUE | TRUE |
| X | | 137713734 - 138304939 | F - 16.67% | TRUE | TRUE |
| X | | 137713734 - 138304939 | | TRUE | TRUE |
| X | | 137713734 - 138304939 | F - 5.56% | TRUE | TRUE |
| X | | 137713734 - 138304939 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| X | 137713734 - 138304939 | | FALSE | TRUE |
| 11 | 7448497 - 7487066 | | TRUE | TRUE |
| 11 | 7448497 - 7487066 | F - 10.00% | TRUE | TRUE |
| 11 | 7448497 - 7487066 | | TRUE | TRUE |
| 11 | 7448497 - 7487066 | F - 10.00% | TRUE | TRUE |
| 11 | 7448497 - 7487066 | F - 10.00% | TRUE | TRUE |
| 11 | 7448497 - 7487066 | | FALSE | TRUE |
| 12 | 70760056 - 70828072 | | TRUE | FALSE |
| 12 | 70760056 - 70828072 | T - 50.00% | TRUE | TRUE |
| 12 | 70760056 - 70828072 | T - 75.00% | TRUE | TRUE |
| 15 | 102193801 - 102264807 | | TRUE | TRUE |
| 15 | 102193801 - 102264807 | | TRUE | FALSE |
| 15 | 102193801 - 102264807 | F - 22.22% | TRUE | TRUE |
| 15 | 102193801 - 102264807 | T - 88.89% | TRUE | TRUE |
| 7 | 43157495 - 43202786 | T - 100.00% | TRUE | TRUE |
| 7 | 43157495 - 43202786 | T - 100.00% | TRUE | TRUE |
| 7 | 43157495 - 43202786 | T - 100.00% | TRUE | FALSE |
| 7 | 43157495 - 43202786 | | TRUE | TRUE |
| 17 | 38175350 - 38210889 | F - 48.57% | TRUE | FALSE |
| 17 | 38175350 - 38210889 | | TRUE | FALSE |
| 17 | 38175350 - 38210889 | | TRUE | TRUE |
| 17 | 38175350 - 38210889 | | TRUE | TRUE |
| 17 | 38175350 - 38210889 | | TRUE | TRUE |
| 17 | 38175350 - 38210889 | | FALSE | TRUE |
| 17 | 38175350 - 38210889 | T - 60.00% | TRUE | TRUE |
| 17 | 38175350 - 38210889 | | TRUE | TRUE |
| 2 | 85581517 - 85618875 | | TRUE | FALSE |
| 2 | 85581517 - 85618875 | | FALSE | TRUE |
| 2 | 85581517 - 85618875 | F - 14.71% | FALSE | TRUE |
| 2 | 85581517 - 85618875 | | TRUE | TRUE |
| 3 | 45596886 - 45727830 | | TRUE | TRUE |
| 3 | 45596886 - 45727830 | F - 14.29% | TRUE | TRUE |
| 3 | 45596886 - 45727830 | F - 14.29% | FALSE | TRUE |
| 3 | 45596886 - 45727830 | T - 57.14% | TRUE | TRUE |
| 3 | 45596886 - 45727830 | | FALSE | TRUE |
| 3 | 45596886 - 45727830 | | TRUE | TRUE |
| 3 | 45596886 - 45727830 | F - 14.29% | TRUE | TRUE |
| 3 | 45596886 - 45727830 | | TRUE | TRUE |
| 3 | 45596886 - 45727830 | F - 14.29% | FALSE | TRUE |
| 3 | 45596886 - 45727830 | | FALSE | TRUE |
| 3 | 45596886 - 45727830 | T - 100.00% | TRUE | TRUE |
| 10 | 63166401 - 63213208 | F - 33.33% | FALSE | TRUE |
| 10 | 63166401 - 63213208 | | FALSE | TRUE |
| 10 | 63166401 - 63213208 | | FALSE | TRUE |
| 10 | 63166401 - 63213208 | T - 55.56% | TRUE | TRUE |
| 10 | 63166401 - 63213208 | | FALSE | TRUE |
| 10 | 63166401 - 63213208 | T - 66.67% | TRUE | TRUE |
| 10 | 63166401 - 63213208 | | FALSE | TRUE |
| 10 | 63166401 - 63213208 | F - 33.33% | FALSE | TRUE |
| 11 | 128328656 - 128457453 | | TRUE | TRUE |
| 11 | 128328656 - 128457453 | | TRUE | TRUE |
| 11 | 128328656 - 128457453 | | TRUE | FALSE |
| 11 | 128328656 - 128457453 | F - 27.27% | FALSE | TRUE |
| 11 | 128328656 - 128457453 | F - 45.45% | TRUE | TRUE |
| 11 | 128328656 - 128457453 | T - 63.64% | TRUE | TRUE |
| 11 | 128328656 - 128457453 | | FALSE | TRUE |
| 15 | 79051545 - 79103805 | | TRUE | FALSE |
| 15 | 79051545 - 79103805 | T - 66.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 15 | 79051545 - 79103805 | | TRUE | TRUE |
| 15 | 79051545 - 79103805 | T - 66.67% | TRUE | TRUE |
| 15 | 79051545 - 79103805 | T - 100.00% | TRUE | TRUE |
| 15 | 79051545 - 79103805 | T - 100.00% | TRUE | TRUE |
| 15 | 79051545 - 79103805 | | TRUE | TRUE |
| 17 | 79679337 - 79688042 | T - 100.00% | TRUE | TRUE |
| 17 | 79679337 - 79688042 | T - 85.71% | TRUE | TRUE |
| 17 | 79679337 - 79688042 | T - 100.00% | FALSE | TRUE |
| 17 | 79679337 - 79688042 | | TRUE | TRUE |
| 21 | 40556102 - 40693485 | F - 40.74% | TRUE | TRUE |
| 21 | 40556102 - 40693485 | F - 37.04% | TRUE | FALSE |
| 21 | 40556102 - 40693485 | | TRUE | TRUE |
| 21 | 40556102 - 40693485 | | TRUE | FALSE |
| 21 | 40556102 - 40693485 | | TRUE | TRUE |
| 21 | 40556102 - 40693485 | | TRUE | TRUE |
| 1 | 114304454 - 114355098 | F - 14.29% | TRUE | FALSE |
| 1 | 114304454 - 114355098 | | TRUE | TRUE |
| 3 | 50126341 - 50156454 | | TRUE | FALSE |
| 3 | 50126341 - 50156454 | F - 8.33% | TRUE | TRUE |
| 3 | 50126341 - 50156454 | | TRUE | TRUE |
| 3 | 50126341 - 50156454 | F - 2.78% | TRUE | FALSE |
| 3 | 50126341 - 50156454 | F - 2.78% | TRUE | TRUE |
| 3 | 50126341 - 50156454 | F - 44.44% | TRUE | TRUE |
| 3 | 50126341 - 50156454 | | TRUE | TRUE |
| 11 | 2016406 - 2022700 | F - 5.56% | TRUE | TRUE |
| 11 | 2016406 - 2022700 | F - 5.56% | TRUE | TRUE |
| 11 | 2016406 - 2022700 | | TRUE | TRUE |
| 11 | 2016406 - 2022700 | F - 5.56% | TRUE | TRUE |
| 11 | 2016406 - 2022700 | | TRUE | TRUE |
| 11 | 2016406 - 2022700 | T - 50.00% | TRUE | TRUE |
| 11 | 2016406 - 2022700 | | TRUE | TRUE |
| 11 | 2016406 - 2022700 | F - 11.11% | TRUE | TRUE |
| 11 | 2016406 - 2022700 | F - 38.89% | TRUE | TRUE |
| 11 | 2016406 - 2022700 | | TRUE | TRUE |
| 12 | 31079362 - 31149537 | | TRUE | FALSE |
| 12 | 31079362 - 31149537 | | TRUE | FALSE |
| 12 | 31079362 - 31149537 | | TRUE | TRUE |
| 12 | 31079362 - 31149537 | | TRUE | FALSE |
| 12 | 31079362 - 31149537 | T - 88.89% | TRUE | TRUE |
| 12 | 31079362 - 31149537 | | TRUE | TRUE |
| 20 | 24986866 - 25039616 | T - 76.47% | TRUE | FALSE |
| 20 | 24986866 - 25039616 | T - 76.47% | TRUE | TRUE |
| 20 | 24986866 - 25039616 | | TRUE | TRUE |
| 20 | 24986866 - 25039616 | T - 76.47% | TRUE | TRUE |
| 20 | 24986866 - 25039616 | T - 64.71% | TRUE | TRUE |
| 20 | 24986866 - 25039616 | | FALSE | TRUE |
| 20 | 24986866 - 25039616 | | TRUE | TRUE |
| 20 | 24986866 - 25039616 | | TRUE | TRUE |
| 20 | 24986866 - 25039616 | | TRUE | TRUE |
| 20 | 24986866 - 25039616 | | TRUE | TRUE |
| 20 | 24986866 - 25039616 | | FALSE | TRUE |
| 5 | 148931510 - 149014531 | | TRUE | TRUE |
| 5 | 148931510 - 149014531 | F - 25.00% | TRUE | FALSE |
| 5 | 148931510 - 149014531 | F - 25.00% | TRUE | TRUE |
| 5 | 148931510 - 149014531 | T - 75.00% | TRUE | TRUE |
| 5 | 148931510 - 149014531 | | TRUE | TRUE |
| 5 | 148931510 - 149014531 | | TRUE | TRUE |
| 5 | 148931510 - 149014531 | | TRUE | TRUE |
| 5 | 148931510 - 149014531 | T - 50.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 148931510 - 149014531 | | FALSE | TRUE |
| 5 | 148931510 - 149014531 | | FALSE | TRUE |
| 5 | 148931510 - 149014531 | T - 75.00% | TRUE | TRUE |
| 5 | 148931510 - 149014531 | T - 50.00% | TRUE | TRUE |
| 5 | 148931510 - 149014531 | | FALSE | TRUE |
| 5 | 44745002 - 44808879 | | TRUE | TRUE |
| 5 | 44745002 - 44808879 | | TRUE | FALSE |
| 5 | 44745002 - 44808879 | | TRUE | FALSE |
| 5 | 44745002 - 44808879 | F - 12.50% | TRUE | FALSE |
| 5 | 44745002 - 44808879 | F - 37.50% | TRUE | TRUE |
| 5 | 44745002 - 44808879 | F - 25.00% | TRUE | TRUE |
| 5 | 44745002 - 44808879 | T - 87.50% | TRUE | FALSE |
| 6 | 42192669 - 42419865 | F - 27.27% | TRUE | TRUE |
| 6 | 42192669 - 42419865 | | TRUE | FALSE |
| 6 | 42192669 - 42419865 | | TRUE | TRUE |
| 6 | 42192669 - 42419865 | F - 27.27% | TRUE | TRUE |
| 6 | 42192669 - 42419865 | T - 90.91% | TRUE | TRUE |
| 9 | 132649466 - 132805473 | | TRUE | FALSE |
| 9 | 132649466 - 132805473 | F - 41.67% | TRUE | TRUE |
| 9 | 132649466 - 132805473 | | TRUE | TRUE |
| 9 | 132649466 - 132805473 | F - 29.17% | TRUE | TRUE |
| 9 | 132649466 - 132805473 | | TRUE | TRUE |
| 9 | 132649466 - 132805473 | | TRUE | TRUE |
| 9 | 132649466 - 132805473 | | FALSE | TRUE |
| 9 | 132649466 - 132805473 | | TRUE | TRUE |
| 9 | 132649466 - 132805473 | | TRUE | TRUE |
| 10 | 99526508 - 99531756 | | TRUE | FALSE |
| 10 | 99526508 - 99531756 | T - 100.00% | TRUE | TRUE |
| 12 | 93963590 - 93977263 | F - 21.43% | TRUE | TRUE |
| 12 | 93963590 - 93977263 | F - 7.14% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | T - 85.71% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | | TRUE | TRUE |
| 12 | 93963590 - 93977263 | F - 14.29% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | F - 28.57% | TRUE | TRUE |
| 12 | 93963590 - 93977263 | T - 85.71% | TRUE | TRUE |
| 12 | 93963590 - 93977263 | F - 14.29% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | F - 7.14% | TRUE | TRUE |
| 12 | 93963590 - 93977263 | T - 78.57% | TRUE | TRUE |
| 12 | 93963590 - 93977263 | | TRUE | TRUE |
| 12 | 93963590 - 93977263 | F - 7.14% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | F - 7.14% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | F - 7.14% | FALSE | TRUE |
| 12 | 93963590 - 93977263 | T - 85.71% | TRUE | TRUE |
| 19 | 45116940 - 45140081 | F - 25.00% | TRUE | TRUE |
| 19 | 45116940 - 45140081 | F - 25.00% | TRUE | TRUE |
| 19 | 45116940 - 45140081 | | TRUE | TRUE |
| 19 | 45116940 - 45140081 | F - 25.00% | FALSE | TRUE |
| 19 | 45116940 - 45140081 | T - 100.00% | TRUE | TRUE |
| 19 | 45116940 - 45140081 | | FALSE | TRUE |
| 19 | 45116940 - 45140081 | T - 50.00% | FALSE | TRUE |
| 19 | 45116940 - 45140081 | | FALSE | TRUE |
| 2 | 31178437 - 31637611 | | TRUE | FALSE |
| 2 | 31178437 - 31637611 | T - 60.00% | TRUE | TRUE |
| 2 | 31178437 - 31637611 | | TRUE | FALSE |
| 2 | 31178437 - 31637611 | | FALSE | TRUE |
| 2 | 107007564 - 107084832 | | TRUE | TRUE |
| 2 | 107007564 - 107084832 | F - 14.29% | TRUE | TRUE |
| 3 | 28390637 - 28579613 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 28390637 - 28579613 | | TRUE | FALSE |
| 3 | 28390637 - 28579613 | F - 10.00% | TRUE | TRUE |
| 5 | 71403061 - 71505397 | | TRUE | FALSE |
| 5 | 71403061 - 71505397 | F - 18.18% | TRUE | TRUE |
| 5 | 71403061 - 71505397 | | TRUE | TRUE |
| 5 | 138282409 - 138629246 | | TRUE | FALSE |
| 5 | 138282409 - 138629246 | | TRUE | FALSE |
| 5 | 138282409 - 138629246 | | TRUE | TRUE |
| 5 | 138282409 - 138629246 | F - 5.00% | TRUE | FALSE |
| 7 | 36363759 - 36429734 | | TRUE | FALSE |
| 7 | 36363759 - 36429734 | F - 8.33% | TRUE | TRUE |
| 7 | 36363759 - 36429734 | F - 16.67% | TRUE | TRUE |
| 7 | 36363759 - 36429734 | F - 4.17% | TRUE | TRUE |
| 7 | 36363759 - 36429734 | F - 25.00% | FALSE | TRUE |
| 7 | 36363759 - 36429734 | T - 50.00% | TRUE | TRUE |
| 7 | 36363759 - 36429734 | F - 41.67% | TRUE | TRUE |
| 1 | 221874764 - 221915518 | | TRUE | FALSE |
| 1 | 221874764 - 221915518 | F - 25.00% | TRUE | TRUE |
| 1 | 221874764 - 221915518 | F - 33.33% | TRUE | FALSE |
| 1 | 221874764 - 221915518 | | TRUE | TRUE |
| 1 | 221874764 - 221915518 | | TRUE | TRUE |
| 5 | 56110900 - 56191979 | T - 66.67% | TRUE | TRUE |
| 5 | 56110900 - 56191979 | T - 66.67% | TRUE | TRUE |
| 5 | 56110900 - 56191979 | | TRUE | TRUE |
| 5 | 56110900 - 56191979 | | FALSE | TRUE |
| 5 | 56110900 - 56191979 | T - 66.67% | FALSE | TRUE |
| 5 | 56110900 - 56191979 | T - 66.67% | TRUE | TRUE |
| 5 | 56110900 - 56191979 | F - 33.33% | TRUE | TRUE |
| 5 | 56110900 - 56191979 | T - 66.67% | TRUE | TRUE |
| 5 | 56110900 - 56191979 | | FALSE | TRUE |
| 5 | 56110900 - 56191979 | | TRUE | TRUE |
| 5 | 56110900 - 56191979 | | TRUE | TRUE |
| 5 | 56110900 - 56191979 | | FALSE | TRUE |
| 11 | 72465774 - 72504750 | F - 11.11% | TRUE | TRUE |
| 11 | 72465774 - 72504750 | T - 66.67% | TRUE | TRUE |
| 11 | 72465774 - 72504750 | | TRUE | TRUE |
| 11 | 72465774 - 72504750 | F - 22.22% | TRUE | TRUE |
| 11 | 72465774 - 72504750 | T - 66.67% | TRUE | TRUE |
| 11 | 72465774 - 72504750 | T - 66.67% | TRUE | TRUE |
| 11 | 72465774 - 72504750 | F - 44.44% | TRUE | TRUE |
| 12 | 54378849 - 54384063 | | TRUE | TRUE |
| 12 | 54378849 - 54384063 | | TRUE | TRUE |
| 12 | 54378849 - 54384063 | | TRUE | TRUE |
| 12 | 54378849 - 54384063 | F - 12.50% | FALSE | TRUE |
| 12 | 54378849 - 54384063 | F - 12.50% | FALSE | TRUE |
| 12 | 54378849 - 54384063 | T - 62.50% | TRUE | TRUE |
| 12 | 54378849 - 54384063 | F - 12.50% | TRUE | TRUE |
| 12 | 54378849 - 54384063 | T - 50.00% | FALSE | TRUE |
| 12 | 54378849 - 54384063 | | FALSE | TRUE |
| 20 | 35806813 - 35870025 | | TRUE | FALSE |
| 20 | 35806813 - 35870025 | F - 5.88% | TRUE | TRUE |
| 20 | 35806813 - 35870025 | | FALSE | TRUE |
| 7 | 12596187 - 12693228 | | TRUE | TRUE |
| 7 | 12596187 - 12693228 | | TRUE | TRUE |
| 7 | 12596187 - 12693228 | | TRUE | TRUE |
| 7 | 12596187 - 12693228 | | TRUE | TRUE |
| 7 | 12596187 - 12693228 | F - 31.25% | TRUE | TRUE |
| 7 | 12596187 - 12693228 | | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 7 | 12596187 - 12693228 | F - 25.00% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | T - 50.00% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | | FALSE | TRUE |
| | 7 | 12596187 - 12693228 | F - 12.50% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | F - 6.25% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | F - 6.25% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | F - 37.50% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | F - 6.25% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | T - 50.00% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | T - 50.00% | TRUE | TRUE |
| | 7 | 12596187 - 12693228 | | FALSE | TRUE |
| X | | 134229015 - 134232733 | | TRUE | FALSE |
| X | | 134229015 - 134232733 | F - 25.00% | TRUE | TRUE |
| X | | 134229015 - 134232733 | T - 50.00% | TRUE | TRUE |
| X | | 134229015 - 134232733 | T - 75.00% | FALSE | TRUE |
| | 13 | 102104966 - 102375456 | F - 8.33% | TRUE | FALSE |
| | 13 | 102104966 - 102375456 | F - 8.33% | TRUE | TRUE |
| | 13 | 102104966 - 102375456 | | FALSE | TRUE |
| | 13 | 102104966 - 102375456 | | TRUE | TRUE |
| | 20 | 13765596 - 13799067 | | TRUE | FALSE |
| | 20 | 13765596 - 13799067 | | TRUE | TRUE |
| | 20 | 13765596 - 13799067 | F - 9.52% | TRUE | TRUE |
| | 20 | 13765596 - 13799067 | | TRUE | TRUE |
| | 3 | 156977531 - 157251408 | | TRUE | FALSE |
| | 3 | 156977531 - 157251408 | F - 35.71% | TRUE | TRUE |
| | 3 | 156977531 - 157251408 | | TRUE | TRUE |
| | 3 | 156977531 - 157251408 | F - 3.57% | FALSE | TRUE |
| | 3 | 156977531 - 157251408 | F - 35.71% | TRUE | TRUE |
| | 3 | 156977531 - 157251408 | F - 35.71% | FALSE | TRUE |
| | 3 | 156977531 - 157251408 | T - 64.29% | TRUE | TRUE |
| | 3 | 156977531 - 157251408 | | FALSE | TRUE |
| | 6 | 86159302 - 86205509 | F - 40.00% | TRUE | TRUE |
| | 6 | 86159302 - 86205509 | F - 20.00% | FALSE | TRUE |
| | 6 | 86159302 - 86205509 | | FALSE | TRUE |
| | 6 | 86159302 - 86205509 | F - 10.00% | FALSE | TRUE |
| | 6 | 86159302 - 86205509 | F - 20.00% | FALSE | TRUE |
| | 8 | 58907068 - 59116838 | | TRUE | TRUE |
| | 8 | 58907068 - 59116838 | F - 10.00% | TRUE | TRUE |
| | 8 | 58907068 - 59116838 | F - 20.00% | TRUE | TRUE |
| | 8 | 58907068 - 59116838 | F - 20.00% | FALSE | TRUE |
| | 8 | 58907068 - 59116838 | F - 10.00% | TRUE | TRUE |
| | 8 | 58907068 - 59116838 | F - 40.00% | TRUE | TRUE |
| | 8 | 58907068 - 59116838 | F - 10.00% | TRUE | TRUE |
| | 8 | 58907068 - 59116838 | F - 20.00% | FALSE | TRUE |
| | 8 | 61591324 - 61780586 | | TRUE | TRUE |
| | 8 | 61591324 - 61780586 | T - 55.56% | TRUE | TRUE |
| | 8 | 61591324 - 61780586 | | TRUE | TRUE |
| | 8 | 48685669 - 48872743 | T - 87.50% | TRUE | TRUE |
| | 8 | 48685669 - 48872743 | | TRUE | FALSE |
| | 8 | 48685669 - 48872743 | | FALSE | TRUE |
| | 8 | 48685669 - 48872743 | | TRUE | TRUE |
| | 8 | 48685669 - 48872743 | | TRUE | TRUE |
| | 8 | 48685669 - 48872743 | | TRUE | TRUE |
| | 8 | 48685669 - 48872743 | | FALSE | TRUE |
| | 8 | 48685669 - 48872743 | | FALSE | TRUE |
| | 8 | 48685669 - 48872743 | | FALSE | TRUE |
| | 12 | 76653685 - 76698911 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 76653685 - 76698911 | T - 100.00% | TRUE | TRUE |
| 12 | 76653685 - 76698911 | T - 100.00% | TRUE | TRUE |
| 16 | 69984626 - 69998141 | | TRUE | FALSE |
| 16 | 69984626 - 69998141 | | TRUE | TRUE |
| 16 | 69984626 - 69998141 | T - 90.00% | TRUE | TRUE |
| 16 | 69984626 - 69998141 | F - 30.00% | TRUE | TRUE |
| 19 | 18307594 - 18314874 | F - 16.67% | TRUE | FALSE |
| 19 | 18307594 - 18314874 | | FALSE | TRUE |
| 19 | 18307594 - 18314874 | F - 16.67% | TRUE | TRUE |
| 19 | 18307594 - 18314874 | | TRUE | TRUE |
| 19 | 18307594 - 18314874 | | TRUE | TRUE |
| 19 | 18307594 - 18314874 | T - 100.00% | TRUE | TRUE |
| 19 | 18307594 - 18314874 | T - 50.00% | TRUE | TRUE |
| 19 | 18307594 - 18314874 | T - 50.00% | FALSE | TRUE |
| 19 | 18307594 - 18314874 | | FALSE | TRUE |
| 2 | 74785010 - 74875465 | | TRUE | FALSE |
| 2 | 74785010 - 74875465 | T - 71.43% | TRUE | TRUE |
| 2 | 74785010 - 74875465 | | TRUE | TRUE |
| 2 | 74785010 - 74875465 | | FALSE | TRUE |
| 2 | 74785010 - 74875465 | T - 71.43% | TRUE | TRUE |
| 2 | 74785010 - 74875465 | T - 71.43% | TRUE | TRUE |
| 2 | 74785010 - 74875465 | | FALSE | TRUE |
| 3 | 186500994 - 186507689 | | TRUE | TRUE |
| 3 | 186500994 - 186507689 | F - 8.70% | TRUE | FALSE |
| 3 | 186500994 - 186507689 | F - 4.35% | TRUE | TRUE |
| 3 | 186500994 - 186507689 | F - 4.35% | TRUE | TRUE |
| 3 | 186500994 - 186507689 | F - 4.35% | TRUE | TRUE |
| 3 | 186500994 - 186507689 | F - 8.70% | TRUE | TRUE |
| 3 | 186500994 - 186507689 | F - 13.04% | TRUE | TRUE |
| 4 | 38614322 - 38666504 | | TRUE | TRUE |
| 4 | 38614322 - 38666504 | | TRUE | TRUE |
| 4 | 38614322 - 38666504 | F - 16.67% | FALSE | TRUE |
| 4 | 38614322 - 38666504 | F - 16.67% | FALSE | TRUE |
| 15 | 34432875 - 34502297 | | TRUE | TRUE |
| 15 | 34432875 - 34502297 | | TRUE | TRUE |
| 15 | 34432875 - 34502297 | F - 14.29% | TRUE | TRUE |
| 18 | 29027732 - 29058665 | | TRUE | FALSE |
| 18 | 29027732 - 29058665 | T - 66.67% | TRUE | FALSE |
| 20 | 35729629 - 35807991 | | TRUE | FALSE |
| 20 | 35729629 - 35807991 | | TRUE | TRUE |
| 20 | 35729629 - 35807991 | | TRUE | FALSE |
| 20 | 35729629 - 35807991 | | TRUE | TRUE |
| 20 | 35729629 - 35807991 | | TRUE | FALSE |
| 20 | 35729629 - 35807991 | T - 55.56% | TRUE | TRUE |
| 20 | 35729629 - 35807991 | F - 5.56% | TRUE | TRUE |
| 20 | 35729629 - 35807991 | | TRUE | TRUE |
| 20 | 35729629 - 35807991 | | FALSE | TRUE |
| 20 | 35729629 - 35807991 | | TRUE | TRUE |
| 2 | 103332299 - 103353347 | | TRUE | FALSE |
| 2 | 103332299 - 103353347 | | TRUE | TRUE |
| 2 | 103332299 - 103353347 | T - 83.33% | TRUE | TRUE |
| 2 | 103332299 - 103353347 | | TRUE | FALSE |
| 2 | 103332299 - 103353347 | | FALSE | TRUE |
| 10 | 7601232 - 7708961 | | TRUE | TRUE |
| 10 | 7601232 - 7708961 | F - 14.29% | TRUE | TRUE |
| 10 | 7601232 - 7708961 | | TRUE | TRUE |
| 10 | 7601232 - 7708961 | F - 35.71% | TRUE | TRUE |
| 10 | 7601232 - 7708961 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 7601232 - 7708961 | F - 7.14% | FALSE | TRUE |
| 10 | 7601232 - 7708961 | T - 78.57% | TRUE | TRUE |
| 10 | 7601232 - 7708961 | T - 50.00% | TRUE | TRUE |
| 10 | 7601232 - 7708961 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | F - 40.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | F - 20.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | F - 30.00% | FALSE | TRUE |
| 15 | 90728152 - 90772911 | | FALSE | TRUE |
| 15 | 90728152 - 90772911 | | FALSE | TRUE |
| 15 | 90728152 - 90772911 | T - 70.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | FALSE | TRUE |
| 15 | 90728152 - 90772911 | T - 80.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | T - 80.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | T - 90.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | FALSE | TRUE |
| 15 | 90728152 - 90772911 | T - 80.00% | TRUE | TRUE |
| 15 | 90728152 - 90772911 | | FALSE | TRUE |
| 15 | 90728152 - 90772911 | F - 10.00% | FALSE | TRUE |
| 2 | 220462582 - 220481173 | | TRUE | TRUE |
| 2 | 220462582 - 220481173 | F - 35.00% | FALSE | TRUE |
| 2 | 220462582 - 220481173 | | TRUE | TRUE |
| 2 | 220462582 - 220481173 | | FALSE | TRUE |
| 3 | 186507669 - 186524847 | | TRUE | FALSE |
| 3 | 186507669 - 186524847 | F - 36.84% | TRUE | FALSE |
| 11 | 65659490 - 65667997 | F - 37.50% | TRUE | TRUE |
| 11 | 65659490 - 65667997 | T - 100.00% | TRUE | TRUE |
| 11 | 65659490 - 65667997 | T - 75.00% | TRUE | TRUE |
| 11 | 65659490 - 65667997 | | TRUE | TRUE |
| 11 | 65659490 - 65667997 | F - 12.50% | FALSE | TRUE |
| 14 | 65171154 - 65213610 | | TRUE | FALSE |
| 14 | 65171154 - 65213610 | | TRUE | TRUE |
| 14 | 65171154 - 65213610 | | TRUE | TRUE |
| 14 | 65171154 - 65213610 | F - 25.00% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | F - 25.00% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | F - 6.25% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | F - 43.75% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | F - 6.25% | FALSE | TRUE |
| 14 | 65171154 - 65213610 | F - 12.50% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | | TRUE | TRUE |
| 14 | 65171154 - 65213610 | F - 43.75% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | | FALSE | TRUE |
| 14 | 65171154 - 65213610 | T - 50.00% | TRUE | TRUE |
| 14 | 65171154 - 65213610 | | FALSE | TRUE |
| 14 | 65171154 - 65213610 | | TRUE | TRUE |
| 2 | 166713985 - 166810353 | F - 40.00% | TRUE | TRUE |
| 2 | 166713985 - 166810353 | | TRUE | FALSE |
| 2 | 166713985 - 166810353 | | TRUE | FALSE |
| 2 | 166713985 - 166810353 | | TRUE | TRUE |
| 15 | 28878269 - 28887567 | T - 50.00% | TRUE | TRUE |
| 15 | 28878269 - 28887567 | | TRUE | TRUE |
| 1 | 52838501 - 52870143 | | TRUE | TRUE |
| 1 | 52838501 - 52870143 | T - 83.33% | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|-------------|-------|-------|
| | 3 | 160150233 - 160203561 | | TRUE | FALSE |
| | 3 | 160150233 - 160203561 | F - 9.09% | TRUE | TRUE |
| | 3 | 160150233 - 160203561 | F - 9.09% | FALSE | TRUE |
| | 3 | 160150233 - 160203561 | | TRUE | TRUE |
| | 5 | 52285156 - 52390609 | | TRUE | FALSE |
| | 5 | 52285156 - 52390609 | T - 100.00% | TRUE | TRUE |
| | 5 | 52285156 - 52390609 | | TRUE | FALSE |
| | 5 | 52285156 - 52390609 | T - 58.33% | TRUE | TRUE |
| | 5 | 52285156 - 52390609 | | FALSE | TRUE |
| | 6 | 45295894 - 45518819 | | TRUE | TRUE |
| | 6 | 45295894 - 45518819 | F - 11.76% | TRUE | TRUE |
| | 6 | 45295894 - 45518819 | F - 17.65% | TRUE | TRUE |
| | 6 | 45295894 - 45518819 | F - 5.88% | TRUE | TRUE |
| | 6 | 45295894 - 45518819 | F - 5.88% | TRUE | FALSE |
| | 6 | 45295894 - 45518819 | | TRUE | TRUE |
| X | | 101854096 - 101905073 | | TRUE | FALSE |
| X | | 101854096 - 101905073 | F - 21.74% | TRUE | TRUE |
| | 12 | 50451331 - 50477394 | | TRUE | TRUE |
| | 12 | 50451331 - 50477394 | | TRUE | FALSE |
| | 12 | 50451331 - 50477394 | F - 25.00% | TRUE | TRUE |
| | 12 | 50451331 - 50477394 | F - 25.00% | TRUE | TRUE |
| | 12 | 50451331 - 50477394 | | TRUE | TRUE |
| | 12 | 50451331 - 50477394 | F - 12.50% | FALSE | TRUE |
| | 12 | 54624724 - 54673955 | | TRUE | FALSE |
| | 12 | 54624724 - 54673955 | F - 22.22% | TRUE | TRUE |
| | 12 | 54624724 - 54673955 | | TRUE | TRUE |
| | 12 | 54624724 - 54673955 | | TRUE | TRUE |
| | 12 | 54624724 - 54673955 | | FALSE | TRUE |
| | 21 | 34961647 - 35016232 | | TRUE | TRUE |
| | 21 | 34961647 - 35016232 | T - 60.61% | TRUE | TRUE |
| | 21 | 34961647 - 35016232 | | TRUE | TRUE |
| | 21 | 34961647 - 35016232 | F - 27.27% | FALSE | TRUE |
| 6_qbl_hap6 | | 2378345 - 2403713 | | TRUE | FALSE |
| 6_qbl_hap6 | | 2378345 - 2403713 | | TRUE | FALSE |
| 6_qbl_hap6 | | 2378345 - 2403713 | | TRUE | TRUE |
| 6_qbl_hap6 | | 2378345 - 2403713 | T - 66.67% | TRUE | TRUE |
| 6_qbl_hap6 | | 2378345 - 2403713 | F - 11.11% | FALSE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | F - 4.35% | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | | FALSE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 8412457 - 8877702 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | T - 60.00% | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | FALSE | TRUE |
| | 1 | 25688740 - 25756683 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | T - 75.00% | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | T - 95.00% | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | T - 80.00% | TRUE | TRUE |
| | 1 | 25688740 - 25756683 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 25688740 - 25756683 | T - 90.00% | FALSE | TRUE |
| 2 | 24300303 - 24308731 | | TRUE | FALSE |
| 2 | 24300303 - 24308731 | F - 45.45% | TRUE | TRUE |
| 2 | 24300303 - 24308731 | T - 63.64% | TRUE | TRUE |
| 2 | 24300303 - 24308731 | F - 27.27% | TRUE | TRUE |
| 2 | 24300303 - 24308731 | F - 45.45% | TRUE | TRUE |
| 2 | 24300303 - 24308731 | F - 36.36% | FALSE | TRUE |
| 2 | 24300303 - 24308731 | F - 36.36% | FALSE | TRUE |
| 3 | 48555117 - 48598605 | | TRUE | FALSE |
| 3 | 48555117 - 48598605 | | FALSE | TRUE |
| 3 | 48555117 - 48598605 | F - 4.55% | TRUE | TRUE |
| 3 | 48555117 - 48598605 | | TRUE | TRUE |
| 3 | 48555117 - 48598605 | | TRUE | TRUE |
| 3 | 48555117 - 48598605 | | TRUE | TRUE |
| 3 | 48555117 - 48598605 | | FALSE | TRUE |
| 3 | 48555117 - 48598605 | T - 95.45% | FALSE | TRUE |
| 5 | 134362615 - 134370503 | F - 10.00% | TRUE | TRUE |
| 5 | 134362615 - 134370503 | | TRUE | TRUE |
| 5 | 134362615 - 134370503 | | TRUE | TRUE |
| 5 | 134362615 - 134370503 | T - 80.00% | TRUE | TRUE |
| 5 | 134362615 - 134370503 | F - 40.00% | TRUE | TRUE |
| 5 | 134362615 - 134370503 | F - 10.00% | TRUE | TRUE |
| 5 | 134362615 - 134370503 | F - 10.00% | TRUE | TRUE |
| 5 | 134362615 - 134370503 | | TRUE | TRUE |
| 5 | 134362615 - 134370503 | F - 30.00% | TRUE | TRUE |
| 5 | 134362615 - 134370503 | | TRUE | TRUE |
| 5 | 158584417 - 158637061 | | TRUE | FALSE |
| 5 | 158584417 - 158637061 | F - 10.00% | TRUE | TRUE |
| 5 | 158584417 - 158637061 | | TRUE | TRUE |
| 5 | 158584417 - 158637061 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 6.98% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 23.26% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 27.91% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 20.93% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | FALSE | TRUE |
| 14 | 21484922 - 21539031 | F - 2.33% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 86.05% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | FALSE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 2.33% | FALSE | TRUE |
| 14 | 21484922 - 21539031 | F - 11.63% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 93.02% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 88.37% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 30.23% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 34.88% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 4.65% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 4.65% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | F - 44.19% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | FALSE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | FALSE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 97.67% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 90.70% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 100.00% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 14 | 21484922 - 21539031 | T - 100.00% | TRUE | TRUE |
| 14 | 21484922 - 21539031 | | FALSE | TRUE |
| 14 | 21484922 - 21539031 | | TRUE | TRUE |
| 15 | 30427254 - 30439395 | | TRUE | FALSE |
| 15 | 30427254 - 30439395 | F - 20.00% | TRUE | TRUE |
| 17 | 7482805 - 7485431 | T - 50.00% | TRUE | TRUE |
| 17 | 7482805 - 7485431 | | TRUE | TRUE |
| 22 | 39516172 - 39548679 | | TRUE | TRUE |
| 22 | 39516172 - 39548679 | | TRUE | TRUE |
| 22 | 39516172 - 39548679 | F - 18.18% | TRUE | TRUE |
| 22 | 39516172 - 39548679 | | TRUE | TRUE |
| 22 | 39516172 - 39548679 | T - 63.64% | TRUE | TRUE |
| 22 | 39516172 - 39548679 | F - 9.09% | TRUE | TRUE |
| 22 | 39516172 - 39548679 | F - 9.09% | TRUE | TRUE |
| 22 | 39516172 - 39548679 | F - 18.18% | TRUE | TRUE |
| 2 | 11674242 - 11782914 | F - 38.46% | TRUE | TRUE |
| 2 | 11674242 - 11782914 | | TRUE | TRUE |
| 2 | 11674242 - 11782914 | | FALSE | TRUE |
| 2 | 11674242 - 11782914 | | FALSE | TRUE |
| 6 | 127759551 - 127840500 | F - 8.70% | TRUE | TRUE |
| 6 | 127759551 - 127840500 | | TRUE | FALSE |
| 6 | 127759551 - 127840500 | F - 8.70% | TRUE | TRUE |
| 6 | 127759551 - 127840500 | F - 13.04% | TRUE | TRUE |
| 6 | 127759551 - 127840500 | F - 30.43% | TRUE | TRUE |
| 12 | 6976283 - 6980112 | F - 10.53% | TRUE | TRUE |
| 12 | 6976283 - 6980112 | F - 5.26% | TRUE | TRUE |
| 12 | 6976283 - 6980112 | | TRUE | TRUE |
| 12 | 6976283 - 6980112 | F - 5.26% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | F - 18.18% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | F - 22.73% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | F - 36.36% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | T - 63.64% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | F - 4.55% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | T - 68.18% | FALSE | TRUE |
| 3 | 75955846 - 77699115 | T - 63.64% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | FALSE | TRUE |
| 3 | 75955846 - 77699115 | F - 4.55% | FALSE | TRUE |
| 3 | 75955846 - 77699115 | | TRUE | TRUE |
| 3 | 75955846 - 77699115 | T - 59.09% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | T - 63.64% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | FALSE | TRUE |
| 3 | 75955846 - 77699115 | T - 68.18% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 75955846 - 77699115 | T - 59.09% | TRUE | TRUE |
| 3 | 75955846 - 77699115 | | FALSE | TRUE |
| 9 | 26947037 - 27062931 | | TRUE | FALSE |
| 9 | 26947037 - 27062931 | | TRUE | TRUE |
| 9 | 26947037 - 27062931 | | FALSE | TRUE |
| 9 | 26947037 - 27062931 | | TRUE | TRUE |
| 9 | 26947037 - 27062931 | | TRUE | FALSE |
| 9 | 26947037 - 27062931 | T - 81.25% | TRUE | TRUE |
| 9 | 26947037 - 27062931 | | FALSE | TRUE |
| 9 | 26947037 - 27062931 | T - 62.50% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | | TRUE | TRUE |
| 9 | 139869546 - 139876194 | | TRUE | TRUE |
| 9 | 139869546 - 139876194 | T - 50.00% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | F - 7.14% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | T - 71.43% | TRUE | FALSE |
| 9 | 139869546 - 139876194 | F - 7.14% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | F - 14.29% | TRUE | FALSE |
| 9 | 139869546 - 139876194 | F - 14.29% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | F - 14.29% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | F - 7.14% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | | TRUE | TRUE |
| 9 | 139869546 - 139876194 | F - 7.14% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | F - 7.14% | FALSE | TRUE |
| 9 | 139869546 - 139876194 | F - 7.14% | TRUE | TRUE |
| 9 | 139869546 - 139876194 | | FALSE | TRUE |
| 19 | 11200038 - 11244505 | | TRUE | TRUE |
| 19 | 11200038 - 11244505 | | FALSE | TRUE |
| 19 | 11200038 - 11244505 | | TRUE | TRUE |
| 19 | 11200038 - 11244505 | | FALSE | TRUE |
| 19 | 11200038 - 11244505 | F - 44.44% | TRUE | TRUE |
| 19 | 11200038 - 11244505 | T - 88.89% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | TRUE | FALSE |
| 22 | 36649056 - 36663577 | T - 92.59% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | T - 74.07% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | TRUE | TRUE |
| 22 | 36649056 - 36663577 | F - 3.70% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | F - 3.70% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | FALSE | TRUE |
| 22 | 36649056 - 36663577 | F - 14.81% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | F - 25.93% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | FALSE | TRUE |
| 22 | 36649056 - 36663577 | | FALSE | TRUE |
| 22 | 36649056 - 36663577 | T - 51.85% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | F - 25.93% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | F - 3.70% | FALSE | TRUE |
| 22 | 36649056 - 36663577 | F - 40.74% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | T - 59.26% | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | FALSE | TRUE |
| 22 | 36649056 - 36663577 | | TRUE | TRUE |
| 22 | 36649056 - 36663577 | | FALSE | TRUE |
| 22 | 31884674 - 32014572 | | TRUE | TRUE |
| 22 | 31884674 - 32014572 | | TRUE | FALSE |
| 22 | 31884674 - 32014572 | | TRUE | TRUE |
| 22 | 31884674 - 32014572 | | TRUE | TRUE |
| 22 | 31884674 - 32014572 | F - 45.24% | TRUE | TRUE |
| 4 | 8183799 - 8243530 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 4 | 8183799 - 8243530 | | TRUE | TRUE |
| 4 | 8183799 - 8243530 | F - 15.63% | TRUE | TRUE |
| 4 | 8183799 - 8243530 | F - 37.50% | TRUE | TRUE |
| 4 | 8183799 - 8243530 | | FALSE | TRUE |
| 4 | 8183799 - 8243530 | F - 40.63% | FALSE | TRUE |
| 4 | 8183799 - 8243530 | | FALSE | TRUE |
| 4 | 8183799 - 8243530 | | FALSE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 5.56% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 11.11% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 22.22% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 5.56% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 11.11% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 11.11% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | FALSE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | F - 5.56% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | TRUE | TRUE |
| 4 | 164445450 - 165305202 | T - 61.11% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | FALSE | TRUE |
| 4 | 164445450 - 165305202 | F - 22.22% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | T - 50.00% | TRUE | TRUE |
| 4 | 164445450 - 165305202 | | FALSE | TRUE |
| 4 | 164445450 - 165305202 | F - 16.67% | TRUE | TRUE |
| 2 | 201735630 - 201754026 | | TRUE | TRUE |
| 2 | 201735630 - 201754026 | F - 4.76% | TRUE | TRUE |
| 3 | 41288090 - 42003922 | | TRUE | FALSE |
| 3 | 41288090 - 42003922 | F - 35.29% | TRUE | TRUE |
| 3 | 41288090 - 42003922 | F - 35.29% | TRUE | TRUE |
| 3 | 41288090 - 42003922 | | TRUE | TRUE |
| 3 | 41288090 - 42003922 | | TRUE | TRUE |
| 3 | 41288090 - 42003922 | T - 52.94% | TRUE | TRUE |
| 3 | 41288090 - 42003922 | | FALSE | TRUE |
| 3 | 41288090 - 42003922 | | FALSE | TRUE |
| 3 | 41288090 - 42003922 | F - 11.76% | FALSE | TRUE |
| 3 | 41288090 - 42003922 | | FALSE | TRUE |
| 3 | 41288090 - 42003922 | | FALSE | TRUE |
| X | 71130938 - 71363424 | T - 100.00% | TRUE | FALSE |
| X | 71130938 - 71363424 | | TRUE | FALSE |
| X | 71130938 - 71363424 | F - 25.00% | TRUE | TRUE |
| X | 71130938 - 71363424 | | TRUE | TRUE |
| 10 | 104221149 - 104239484 | | TRUE | TRUE |
| 10 | 104221149 - 104239484 | F - 5.56% | TRUE | FALSE |
| 10 | 104221149 - 104239484 | | TRUE | TRUE |
| 10 | 104221149 - 104239484 | | FALSE | TRUE |
| 10 | 104221149 - 104239484 | | TRUE | TRUE |
| 10 | 104221149 - 104239484 | | TRUE | TRUE |
| 10 | 104221149 - 104239484 | F - 5.56% | TRUE | TRUE |
| 10 | 104221149 - 104239484 | F - 22.22% | TRUE | TRUE |
| 10 | 104221149 - 104239484 | F - 16.67% | TRUE | TRUE |
| 10 | 104221149 - 104239484 | F - 16.67% | TRUE | TRUE |
| 10 | 104221149 - 104239484 | F - 38.89% | TRUE | TRUE |
| 13 | 43597339 - 43683306 | | TRUE | TRUE |
| 13 | 43597339 - 43683306 | T - 60.00% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 15 | 74471807 - 74502046 | | TRUE | TRUE |
| 15 | 74471807 - 74502046 | | TRUE | TRUE |
| 15 | 74471807 - 74502046 | | TRUE | TRUE |
| 15 | 74471807 - 74502046 | T - 90.91% | TRUE | FALSE |
| 16 | 74442529 - 74455649 | | TRUE | FALSE |
| 16 | 74442529 - 74455649 | | TRUE | TRUE |
| 16 | 74442529 - 74455649 | F - 11.11% | TRUE | TRUE |
| 16 | 74442529 - 74455649 | F - 11.11% | TRUE | TRUE |
| 20 | 25275379 - 25371619 | | TRUE | TRUE |
| 20 | 25275379 - 25371619 | | TRUE | TRUE |
| 20 | 25275379 - 25371619 | | TRUE | TRUE |
| 20 | 25275379 - 25371619 | T - 75.00% | TRUE | TRUE |
| 20 | 25275379 - 25371619 | F - 33.33% | TRUE | TRUE |
| 20 | 25275379 - 25371619 | T - 50.00% | TRUE | TRUE |
| 20 | 25275379 - 25371619 | F - 8.33% | TRUE | TRUE |
| 20 | 25275379 - 25371619 | | TRUE | TRUE |
| 20 | 25275379 - 25371619 | F - 8.33% | FALSE | TRUE |
| 20 | 25275379 - 25371619 | T - 58.33% | TRUE | TRUE |
| 20 | 25275379 - 25371619 | | TRUE | TRUE |
| 20 | 25275379 - 25371619 | | TRUE | TRUE |
| 1 | 52811395 - 52831877 | | TRUE | TRUE |
| 1 | 52811395 - 52831877 | F - 5.26% | TRUE | TRUE |
| 1 | 52811395 - 52831877 | F - 5.26% | TRUE | TRUE |
| 1 | 52811395 - 52831877 | | TRUE | TRUE |
| 1 | 52811395 - 52831877 | F - 10.53% | TRUE | TRUE |
| 1 | 52811395 - 52831877 | | TRUE | TRUE |
| 1 | 52811395 - 52831877 | | FALSE | TRUE |
| 7 | 75528518 - 75616173 | | TRUE | TRUE |
| 7 | 75528518 - 75616173 | | TRUE | TRUE |
| 7 | 75528518 - 75616173 | F - 6.06% | TRUE | TRUE |
| 7 | 75528518 - 75616173 | F - 3.03% | TRUE | TRUE |
| 19 | 49141272 - 49149451 | | TRUE | TRUE |
| 19 | 49141272 - 49149451 | T - 100.00% | TRUE | TRUE |
| 19 | 49141272 - 49149451 | | FALSE | TRUE |
| 2 | 25042038 - 25142708 | F - 5.56% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 5.56% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 11.11% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 5.56% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 5.56% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 11.11% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 5.56% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 11.11% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 5.56% | FALSE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 2 | 25042038 - 25142708 | T - 50.00% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | T - 50.00% | TRUE | TRUE |
| 2 | 25042038 - 25142708 | F - 38.89% | FALSE | TRUE |
| 2 | 25042038 - 25142708 | | FALSE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 2 | 25042038 - 25142708 | | FALSE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 2 | 25042038 - 25142708 | | TRUE | TRUE |
| 6 | 31926581 - 31937532 | | TRUE | TRUE |
| 6 | 31926581 - 31937532 | F - 9.52% | TRUE | TRUE |
| 6 | 31926581 - 31937532 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 73097355 - 73119491 | | TRUE | TRUE |
| 7 | 73097355 - 73119491 | T - 51.85% | TRUE | FALSE |
| 7 | 73097355 - 73119491 | | TRUE | FALSE |
| 7 | 73097355 - 73119491 | | FALSE | TRUE |
| 9 | 117096433 - 117160783 | F - 4.17% | TRUE | FALSE |
| 9 | 117096433 - 117160783 | | TRUE | TRUE |
| 9 | 117096433 - 117160783 | F - 8.33% | TRUE | TRUE |
| 9 | 117096433 - 117160783 | | TRUE | TRUE |
| 16 | 68118654 - 68263162 | | TRUE | TRUE |
| 16 | 68118654 - 68263162 | F - 10.71% | TRUE | TRUE |
| 16 | 68118654 - 68263162 | F - 10.71% | TRUE | TRUE |
| 16 | 68118654 - 68263162 | F - 21.43% | TRUE | TRUE |
| 17 | 49039535 - 49198226 | | TRUE | TRUE |
| 17 | 49039535 - 49198226 | F - 15.63% | TRUE | TRUE |
| 17 | 49039535 - 49198226 | F - 18.75% | TRUE | TRUE |
| 17 | 49039535 - 49198226 | | TRUE | FALSE |
| 17 | 49039535 - 49198226 | | TRUE | TRUE |
| 19 | 39078281 - 39108643 | | TRUE | FALSE |
| 19 | 39078281 - 39108643 | T - 66.67% | TRUE | FALSE |
| 1 | 21766621 - 21811498 | | TRUE | FALSE |
| 1 | 21766621 - 21811498 | F - 4.55% | TRUE | TRUE |
| 1 | 21766621 - 21811498 | | TRUE | TRUE |
| 1 | 21766621 - 21811498 | | TRUE | TRUE |
| 2 | 238767536 - 238820756 | | TRUE | TRUE |
| 2 | 238767536 - 238820756 | T - 100.00% | TRUE | TRUE |
| 2 | 238767536 - 238820756 | T - 50.00% | TRUE | TRUE |
| 2 | 238767536 - 238820756 | | TRUE | TRUE |
| 2 | 238767536 - 238820756 | T - 50.00% | TRUE | TRUE |
| 2 | 238767536 - 238820756 | T - 83.33% | TRUE | TRUE |
| 2 | 238767536 - 238820756 | | TRUE | TRUE |
| 2 | 61414590 - 61697904 | | TRUE | TRUE |
| 2 | 61414590 - 61697904 | F - 21.43% | TRUE | TRUE |
| 2 | 61414590 - 61697904 | | TRUE | TRUE |
| 3 | 106555658 - 106959488 | | TRUE | FALSE |
| 3 | 106555658 - 106959488 | F - 33.33% | TRUE | TRUE |
| 3 | 106555658 - 106959488 | | TRUE | TRUE |
| 3 | 106555658 - 106959488 | | TRUE | TRUE |
| 3 | 106555658 - 106959488 | | TRUE | TRUE |
| 3 | 9849770 - 9896822 | | TRUE | FALSE |
| 3 | 9849770 - 9896822 | | TRUE | TRUE |
| 3 | 9849770 - 9896822 | | TRUE | TRUE |
| 3 | 9849770 - 9896822 | | TRUE | TRUE |
| 3 | 9849770 - 9896822 | F - 48.84% | TRUE | TRUE |
| 5 | 9035138 - 9546233 | | TRUE | FALSE |
| 5 | 9035138 - 9546233 | | TRUE | TRUE |
| 5 | 9035138 - 9546233 | | TRUE | TRUE |
| 5 | 9035138 - 9546233 | T - 83.33% | TRUE | TRUE |
| 5 | 9035138 - 9546233 | T - 100.00% | TRUE | TRUE |
| 5 | 9035138 - 9546233 | F - 16.67% | TRUE | TRUE |
| 5 | 9035138 - 9546233 | | TRUE | TRUE |
| 5 | 9035138 - 9546233 | | TRUE | TRUE |
| 5 | 9035138 - 9546233 | F - 16.67% | TRUE | TRUE |
| 8 | 145202919 - 145316843 | | TRUE | FALSE |
| 8 | 145202919 - 145316843 | | TRUE | TRUE |
| 8 | 145202919 - 145316843 | F - 43.75% | TRUE | TRUE |
| 8 | 145202919 - 145316843 | | FALSE | TRUE |
| 8 | 145202919 - 145316843 | | FALSE | TRUE |
| 10 | 27484143 - 27531068 | | TRUE | FALSE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 10 | 27484143 - 27531068 | F - 11.11% | TRUE | TRUE |
| 10 | 27484143 - 27531068 | F - 38.89% | TRUE | TRUE |
| 10 | 27484143 - 27531068 | F - 27.78% | TRUE | TRUE |
| 10 | 27484143 - 27531068 | | FALSE | TRUE |
| 10 | 27484143 - 27531068 | | TRUE | TRUE |
| 22 | 35776354 - 35790207 | F - 16.67% | TRUE | TRUE |
| 22 | 35776354 - 35790207 | F - 33.33% | TRUE | TRUE |
| 22 | 35776354 - 35790207 | F - 16.67% | FALSE | TRUE |
| 22 | 35776354 - 35790207 | F - 16.67% | TRUE | TRUE |
| 22 | 35776354 - 35790207 | | FALSE | TRUE |
| 22 | 35776354 - 35790207 | | TRUE | TRUE |
| 3 | 195754054 - 195809060 | | TRUE | TRUE |
| 3 | 195754054 - 195809060 | F - 4.55% | TRUE | TRUE |
| 3 | 195754054 - 195809060 | | TRUE | TRUE |
| 3 | 195754054 - 195809060 | | FALSE | TRUE |
| 3 | 195754054 - 195809060 | F - 4.55% | TRUE | TRUE |
| 3 | 195754054 - 195809060 | F - 9.09% | TRUE | TRUE |
| 3 | 195754054 - 195809060 | T - 54.55% | TRUE | TRUE |
| 3 | 195754054 - 195809060 | | FALSE | TRUE |
| 3 | 195754054 - 195809060 | | TRUE | TRUE |
| 5 | 69140557 - 70291803 | | TRUE | TRUE |
| 5 | 69140557 - 70291803 | F - 7.14% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 6.25% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 12.50% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 18.75% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 43.75% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 6.25% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | T - 56.25% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 25.00% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | F - 37.50% | FALSE | TRUE |
| 9 | 137967089 - 138013030 | F - 12.50% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | T - 68.75% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | T - 62.50% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | | TRUE | TRUE |
| 9 | 137967089 - 138013030 | | TRUE | TRUE |
| 9 | 137967089 - 138013030 | | TRUE | TRUE |
| 9 | 137967089 - 138013030 | | FALSE | TRUE |
| 9 | 137967089 - 138013030 | F - 31.25% | TRUE | TRUE |
| 9 | 137967089 - 138013030 | | FALSE | TRUE |
| 6_cox_hap2 | 2597231 - 2622591 | | TRUE | FALSE |
| 6_cox_hap2 | 2597231 - 2622591 | | TRUE | FALSE |
| 6_cox_hap2 | 2597231 - 2622591 | | TRUE | TRUE |
| 6_cox_hap2 | 2597231 - 2622591 | T - 62.50% | TRUE | TRUE |
| 3 | 177339170 - 177346075 | | TRUE | TRUE |
| 3 | 177339170 - 177346075 | T - 100.00% | TRUE | TRUE |
| 9 | 21967751 - 21995300 | F - 46.67% | TRUE | TRUE |
| 9 | 21967751 - 21995300 | | TRUE | TRUE |
| 1 | 41157242 - 41237277 | | TRUE | TRUE |
| 1 | 41157242 - 41237277 | | TRUE | FALSE |
| 1 | 41157242 - 41237277 | F - 6.25% | TRUE | TRUE |
| 1 | 41157242 - 41237277 | | FALSE | TRUE |
| 1 | 41157242 - 41237277 | | FALSE | TRUE |
| 1 | 41157242 - 41237277 | | TRUE | TRUE |
| 1 | 155023422 - 155035252 | | TRUE | FALSE |
| 1 | 155023422 - 155035252 | | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 2.63% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 155023422 - 155035252 | T - 73.68% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 2.63% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 13.16% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 10.53% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 7.89% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 5.26% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 5.26% | TRUE | TRUE |
| 1 | 155023422 - 155035252 | F - 2.63% | TRUE | TRUE |
| 2 | 32582096 - 32843966 | | TRUE | TRUE |
| 2 | 32582096 - 32843966 | F - 7.69% | TRUE | TRUE |
| 2 | 32582096 - 32843966 | | TRUE | TRUE |
| 2 | 32582096 - 32843966 | | FALSE | TRUE |
| Y | 21752639 - 21768160 | F - 25.00% | TRUE | FALSE |
| Y | 21752639 - 21768160 | T - 50.00% | TRUE | FALSE |
| Y | 21752639 - 21768160 | T - 50.00% | TRUE | FALSE |
| Y | 21752639 - 21768160 | F - 25.00% | TRUE | TRUE |
| Y | 21752639 - 21768160 | | TRUE | FALSE |
| Y | 21752639 - 21768160 | T - 50.00% | TRUE | TRUE |
| Y | 21752639 - 21768160 | T - 50.00% | TRUE | TRUE |
| Y | 21752639 - 21768160 | T - 75.00% | TRUE | FALSE |
| Y | 21752639 - 21768160 | T - 50.00% | TRUE | TRUE |
| 10 | 70320117 - 70454239 | | TRUE | TRUE |
| 10 | 70320117 - 70454239 | F - 40.00% | TRUE | TRUE |
| 10 | 70320117 - 70454239 | | FALSE | TRUE |
| 10 | 70320117 - 70454239 | | TRUE | TRUE |
| 10 | 70320117 - 70454239 | | TRUE | TRUE |
| 10 | 18940195 - 18948196 | | TRUE | TRUE |
| 10 | 18940195 - 18948196 | T - 75.00% | TRUE | TRUE |
| 11 | 637293 - 640706 | | TRUE | TRUE |
| 11 | 637293 - 640706 | T - 100.00% | TRUE | TRUE |
| 11 | 637293 - 640706 | | TRUE | TRUE |
| 11 | 637293 - 640706 | | TRUE | TRUE |
| 11 | 637293 - 640706 | F - 33.33% | TRUE | TRUE |
| 12 | 31433518 - 31479306 | | TRUE | TRUE |
| 12 | 31433518 - 31479306 | | TRUE | TRUE |
| 12 | 31433518 - 31479306 | F - 29.41% | TRUE | TRUE |
| 12 | 31433518 - 31479306 | F - 5.88% | FALSE | TRUE |
| 18 | 657604 - 673578 | | TRUE | TRUE |
| 18 | 657604 - 673578 | F - 11.11% | TRUE | TRUE |
| 18 | 657604 - 673578 | T - 66.67% | TRUE | TRUE |
| 18 | 657604 - 673578 | | TRUE | TRUE |
| 18 | 657604 - 673578 | T - 100.00% | TRUE | TRUE |
| 18 | 657604 - 673578 | T - 77.78% | TRUE | TRUE |
| 18 | 657604 - 673578 | | TRUE | TRUE |
| 18 | 657604 - 673578 | | FALSE | TRUE |
| 18 | 657604 - 673578 | | FALSE | TRUE |
| 19 | 35739559 - 35758867 | | TRUE | TRUE |
| 19 | 35739559 - 35758867 | T - 100.00% | FALSE | TRUE |
| 20 | 17594323 - 17662940 | | TRUE | TRUE |
| 20 | 17594323 - 17662940 | F - 5.88% | TRUE | TRUE |
| 20 | 17594323 - 17662940 | | TRUE | TRUE |
| 1 | 207925383 - 207968861 | | TRUE | FALSE |
| 1 | 207925383 - 207968861 | | TRUE | TRUE |
| 1 | 207925383 - 207968861 | | TRUE | TRUE |
| 1 | 207925383 - 207968861 | F - 10.34% | TRUE | TRUE |
| 1 | 207925383 - 207968861 | F - 3.45% | FALSE | TRUE |
| 1 | 38076951 - 38100595 | | TRUE | FALSE |
| 1 | 38076951 - 38100595 | F - 20.00% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 12 | 50794592 - 50873788 | | TRUE | TRUE |
| 12 | 50794592 - 50873788 | F - 13.04% | TRUE | TRUE |
| 12 | 50794592 - 50873788 | F - 4.35% | TRUE | TRUE |
| 12 | 50794592 - 50873788 | | TRUE | TRUE |
| 12 | 50794592 - 50873788 | | TRUE | TRUE |
| 19 | 36545783 - 36596012 | | TRUE | TRUE |
| 19 | 36545783 - 36596012 | F - 42.86% | TRUE | TRUE |
| 19 | 36545783 - 36596012 | | FALSE | TRUE |
| 1 | 156785448 - 156851642 | | TRUE | FALSE |
| 1 | 156785448 - 156851642 | | TRUE | FALSE |
| 1 | 156785448 - 156851642 | T - 92.86% | TRUE | TRUE |
| 2 | 120770581 - 120936697 | | TRUE | TRUE |
| 2 | 120770581 - 120936697 | | TRUE | TRUE |
| 2 | 120770581 - 120936697 | F - 17.65% | TRUE | TRUE |
| 2 | 120770581 - 120936697 | | TRUE | TRUE |
| 2 | 120770581 - 120936697 | | FALSE | TRUE |
| 2 | 120770581 - 120936697 | F - 41.18% | TRUE | TRUE |
| 2 | 120770581 - 120936697 | F - 5.88% | TRUE | TRUE |
| 2 | 120770581 - 120936697 | F - 5.88% | FALSE | TRUE |
| 2 | 120770581 - 120936697 | F - 11.76% | TRUE | TRUE |
| 2 | 120770581 - 120936697 | T - 64.71% | FALSE | TRUE |
| 2 | 120770581 - 120936697 | | FALSE | TRUE |
| 2 | 120770581 - 120936697 | | TRUE | TRUE |
| 2 | 114462588 - 114514400 | | TRUE | FALSE |
| 2 | 114462588 - 114514400 | F - 26.67% | TRUE | TRUE |
| 4 | 114372188 - 114683083 | F - 20.83% | TRUE | TRUE |
| 4 | 114372188 - 114683083 | F - 33.33% | TRUE | TRUE |
| 4 | 114372188 - 114683083 | | FALSE | TRUE |
| 4 | 114372188 - 114683083 | | TRUE | TRUE |
| 5 | 180217541 - 180242652 | | TRUE | FALSE |
| 5 | 180217541 - 180242652 | | TRUE | FALSE |
| 5 | 180217541 - 180242652 | F - 2.94% | TRUE | TRUE |
| 6 | 31082527 - 31107869 | | TRUE | FALSE |
| 6 | 31082527 - 31107869 | | TRUE | FALSE |
| 6 | 31082527 - 31107869 | | TRUE | TRUE |
| 6 | 31082527 - 31107869 | T - 72.73% | TRUE | TRUE |
| 19 | 39292311 - 39303740 | | TRUE | FALSE |
| 19 | 39292311 - 39303740 | T - 100.00% | TRUE | TRUE |
| 22 | 51195514 - 51239737 | | TRUE | TRUE |
| 22 | 51195514 - 51239737 | | TRUE | TRUE |
| 22 | 51195514 - 51239737 | | TRUE | TRUE |
| 22 | 51195514 - 51239737 | F - 14.29% | TRUE | TRUE |
| 22 | 51195514 - 51239737 | F - 14.29% | TRUE | TRUE |
| 6_dbb_hap3 | 2379699 - 2405007 | | TRUE | FALSE |
| 6_dbb_hap3 | 2379699 - 2405007 | | TRUE | FALSE |
| 6_dbb_hap3 | 2379699 - 2405007 | | TRUE | TRUE |
| 6_dbb_hap3 | 2379699 - 2405007 | T - 66.67% | TRUE | TRUE |
| 4 | 183065140 - 183724177 | | TRUE | TRUE |
| 4 | 183065140 - 183724177 | | TRUE | TRUE |
| 4 | 183065140 - 183724177 | F - 45.45% | TRUE | TRUE |
| 4 | 183065140 - 183724177 | T - 63.64% | TRUE | TRUE |
| 5 | 142149949 - 142608576 | | TRUE | FALSE |
| 5 | 142149949 - 142608576 | F - 48.00% | TRUE | FALSE |
| 5 | 142149949 - 142608576 | | TRUE | TRUE |
| 5 | 142149949 - 142608576 | | TRUE | TRUE |
| 5 | 142149949 - 142608576 | | FALSE | TRUE |
| 11 | 7872298 - 7927502 | T - 100.00% | TRUE | FALSE |
| 11 | 7872298 - 7927502 | T - 100.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 11 | 7872298 - 7927502 | | FALSE | TRUE |
| 5 | 135364584 - 135399507 | F - 4.35% | TRUE | FALSE |
| 5 | 135364584 - 135399507 | | TRUE | FALSE |
| 5 | 135364584 - 135399507 | F - 13.04% | TRUE | TRUE |
| 5 | 135364584 - 135399507 | | TRUE | TRUE |
| 5 | 135364584 - 135399507 | | TRUE | TRUE |
| 5 | 135364584 - 135399507 | | TRUE | TRUE |
| 5 | 34017963 - 34043937 | | TRUE | TRUE |
| 5 | 34017963 - 34043937 | | TRUE | FALSE |
| 5 | 34017963 - 34043937 | T - 84.62% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | | TRUE | TRUE |
| 5 | 34017963 - 34043937 | T - 69.23% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | T - 61.54% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | F - 7.69% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | F - 7.69% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | F - 46.15% | TRUE | FALSE |
| 5 | 34017963 - 34043937 | F - 15.38% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | T - 61.54% | TRUE | FALSE |
| 5 | 34017963 - 34043937 | F - 30.77% | TRUE | TRUE |
| 5 | 34017963 - 34043937 | F - 15.38% | FALSE | TRUE |
| 5 | 34017963 - 34043937 | F - 7.69% | FALSE | TRUE |
| 5 | 34017963 - 34043937 | F - 23.08% | TRUE | TRUE |
| 18 | 21108363 - 21166581 | T - 50.00% | TRUE | TRUE |
| 18 | 21108363 - 21166581 | | TRUE | TRUE |
| 18 | 59711458 - 59854289 | | TRUE | TRUE |
| 18 | 59711458 - 59854289 | T - 75.00% | TRUE | TRUE |
| 18 | 59711458 - 59854289 | | TRUE | TRUE |
| 18 | 59711458 - 59854289 | T - 100.00% | TRUE | TRUE |
| 18 | 59711458 - 59854289 | | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 5.26% | TRUE | FALSE |
| 21 | 46683843 - 46707813 | T - 52.63% | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 15.79% | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 10.53% | TRUE | FALSE |
| 21 | 46683843 - 46707813 | | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 36.84% | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 5.26% | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 10.53% | TRUE | TRUE |
| 21 | 46683843 - 46707813 | F - 10.53% | TRUE | TRUE |
| 4 | 102332443 - 102995969 | T - 83.33% | TRUE | TRUE |
| 4 | 102332443 - 102995969 | T - 75.00% | TRUE | TRUE |
| 4 | 102332443 - 102995969 | | TRUE | TRUE |
| 4 | 102332443 - 102995969 | | TRUE | TRUE |
| 6 | 168227602 - 168372703 | | TRUE | FALSE |
| 6 | 168227602 - 168372703 | | TRUE | TRUE |
| 6 | 168227602 - 168372703 | F - 6.06% | TRUE | TRUE |
| 6 | 168227602 - 168372703 | | TRUE | TRUE |
| 6 | 168227602 - 168372703 | | TRUE | TRUE |
| 6 | 168227602 - 168372703 | | TRUE | TRUE |
| 7 | 121713598 - 121784344 | | TRUE | TRUE |
| 7 | 121713598 - 121784344 | | TRUE | TRUE |
| 7 | 121713598 - 121784344 | | TRUE | TRUE |
| 7 | 121713598 - 121784344 | T - 84.62% | TRUE | TRUE |
| 11 | 121899037 - 122238681 | | TRUE | TRUE |
| 11 | 121899037 - 122238681 | | TRUE | TRUE |
| 11 | 121899037 - 122238681 | F - 12.50% | TRUE | TRUE |
| 11 | 121899037 - 122238681 | F - 12.50% | TRUE | TRUE |
| 11 | 121899037 - 122238681 | F - 12.50% | TRUE | TRUE |
| 11 | 121899037 - 122238681 | F - 25.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 121899037 - 122238681 | F - 25.00% | TRUE | TRUE |
| 11 | 121899037 - 122238681 | | TRUE | TRUE |
| 11 | 121899037 - 122238681 | | TRUE | TRUE |
| 11 | 121899037 - 122238681 | | FALSE | TRUE |
| 11 | 121899037 - 122238681 | | TRUE | TRUE |
| 11 | 121899037 - 122238681 | F - 25.00% | TRUE | TRUE |
| 11 | 121899037 - 122238681 | F - 37.50% | TRUE | TRUE |
| 13 | 36875775 - 36944317 | | TRUE | TRUE |
| 13 | 36875775 - 36944317 | F - 4.76% | TRUE | TRUE |
| 13 | 36875775 - 36944317 | F - 4.76% | FALSE | TRUE |
| 13 | 114110134 - 114145267 | | TRUE | TRUE |
| 13 | 114110134 - 114145267 | | TRUE | TRUE |
| 13 | 114110134 - 114145267 | | TRUE | FALSE |
| 13 | 114110134 - 114145267 | F - 25.00% | TRUE | TRUE |
| 14 | 101402828 - 101426536 | F - 13.33% | TRUE | FALSE |
| 14 | 101402828 - 101426536 | F - 6.67% | TRUE | TRUE |
| 14 | 101402828 - 101426536 | F - 6.67% | TRUE | TRUE |
| 14 | 101402828 - 101426536 | | FALSE | TRUE |
| 14 | 101402828 - 101426536 | | TRUE | FALSE |
| 14 | 101402828 - 101426536 | | TRUE | TRUE |
| 14 | 101402828 - 101426536 | | TRUE | TRUE |
| 14 | 101402828 - 101426536 | | TRUE | TRUE |
| 14 | 101402828 - 101426536 | | TRUE | TRUE |
| 14 | 101402828 - 101426536 | | FALSE | TRUE |
| 15 | 45315302 - 45367287 | F - 11.11% | TRUE | FALSE |
| 15 | 45315302 - 45367287 | | TRUE | TRUE |
| 15 | 45315302 - 45367287 | | TRUE | TRUE |
| 15 | 45315302 - 45367287 | | FALSE | TRUE |
| 1 | 44870866 - 45117396 | F - 22.58% | TRUE | TRUE |
| 1 | 44870866 - 45117396 | F - 25.81% | TRUE | TRUE |
| 1 | 44870866 - 45117396 | | TRUE | FALSE |
| 1 | 44870866 - 45117396 | F - 25.81% | TRUE | TRUE |
| 1 | 44870866 - 45117396 | F - 16.13% | TRUE | TRUE |
| 1 | 44870866 - 45117396 | | FALSE | TRUE |
| 5 | 892758 - 919472 | | TRUE | TRUE |
| 5 | 892758 - 919472 | F - 36.36% | TRUE | FALSE |
| 5 | 892758 - 919472 | T - 63.64% | TRUE | TRUE |
| 5 | 892758 - 919472 | | TRUE | TRUE |
| 5 | 892758 - 919472 | T - 54.55% | TRUE | TRUE |
| 5 | 892758 - 919472 | | TRUE | TRUE |
| 5 | 892758 - 919472 | | FALSE | TRUE |
| 5 | 892758 - 919472 | F - 36.36% | FALSE | TRUE |
| 5 | 892758 - 919472 | F - 9.09% | FALSE | TRUE |
| 5 | 892758 - 919472 | | FALSE | TRUE |
| 5 | 78907943 - 78982471 | | TRUE | FALSE |
| 5 | 78907943 - 78982471 | F - 34.78% | TRUE | TRUE |
| 5 | 78907943 - 78982471 | | TRUE | TRUE |
| 5 | 78907943 - 78982471 | | TRUE | TRUE |
| 5 | 78907943 - 78982471 | | TRUE | TRUE |
| 8 | 38585704 - 38710546 | F - 12.24% | TRUE | FALSE |
| 8 | 38585704 - 38710546 | | TRUE | TRUE |
| 8 | 38585704 - 38710546 | F - 2.04% | TRUE | TRUE |
| 8 | 38585704 - 38710546 | | TRUE | TRUE |
| 10 | 75257296 - 75385711 | | TRUE | TRUE |
| 10 | 75257296 - 75385711 | | FALSE | TRUE |
| 10 | 75257296 - 75385711 | F - 3.45% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | F - 3.45% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | | TRUE | TRUE |
| 10 | 75257296 - 75385711 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 10 | 75257296 - 75385711 | F - 37.93% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | F - 3.45% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | F - 3.45% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | | FALSE | TRUE |
| 10 | 75257296 - 75385711 | | FALSE | TRUE |
| 10 | 75257296 - 75385711 | F - 17.24% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | F - 48.28% | TRUE | TRUE |
| 10 | 75257296 - 75385711 | | FALSE | TRUE |
| 14 | 88490894 - 88563276 | F - 22.22% | TRUE | TRUE |
| 14 | 88490894 - 88563276 | | TRUE | TRUE |
| 14 | 88490894 - 88563276 | F - 33.33% | TRUE | TRUE |
| 14 | 88490894 - 88563276 | F - 33.33% | TRUE | TRUE |
| 15 | 92396925 - 92715665 | | TRUE | FALSE |
| 15 | 92396925 - 92715665 | F - 25.00% | TRUE | TRUE |
| 15 | 92396925 - 92715665 | F - 12.50% | TRUE | TRUE |
| 2 | 72403113 - 73053177 | | TRUE | TRUE |
| 2 | 72403113 - 73053177 | F - 8.33% | TRUE | TRUE |
| 2 | 72403113 - 73053177 | F - 8.33% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | FALSE |
| 3 | 129274018 - 129325661 | F - 4.55% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 4.55% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 27.27% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 4.55% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | FALSE | TRUE |
| 3 | 129274018 - 129325661 | F - 36.36% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 4.55% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 27.27% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 27.27% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 22.73% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 31.82% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 22.73% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 31.82% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 31.82% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 18.18% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 27.27% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 31.82% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | FALSE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 4.55% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 22.73% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | FALSE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 22.73% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | F - 13.64% | TRUE | TRUE |
| 3 | 129274018 - 129325661 | | TRUE | TRUE |
| 5 | 31639517 - 32111038 | | TRUE | FALSE |
| 5 | 31639517 - 32111038 | | TRUE | FALSE |
| 5 | 31639517 - 32111038 | | TRUE | FALSE |
| 5 | 31639517 - 32111038 | T - 63.16% | TRUE | TRUE |
| 5 | 31639517 - 32111038 | F - 47.37% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 31639517 - 32111038 | | TRUE | TRUE |
| 5 | 31639517 - 32111038 | | FALSE | TRUE |
| 5 | 31639517 - 32111038 | F - 36.84% | FALSE | TRUE |
| 5 | 31639517 - 32111038 | | TRUE | TRUE |
| 5 | 31639517 - 32111038 | | TRUE | TRUE |
| 5 | 31639517 - 32111038 | | FALSE | TRUE |
| 6 | 133090507 - 133119747 | | TRUE | TRUE |
| 6 | 133090507 - 133119747 | T - 77.78% | TRUE | TRUE |
| 11 | 8633584 - 8693413 | | TRUE | FALSE |
| 11 | 8633584 - 8693413 | | TRUE | FALSE |
| 11 | 8633584 - 8693413 | F - 40.00% | TRUE | TRUE |
| 11 | 8633584 - 8693413 | | FALSE | TRUE |
| 11 | 14899555 - 14913798 | F - 44.44% | TRUE | TRUE |
| 11 | 14899555 - 14913798 | F - 33.33% | TRUE | TRUE |
| 11 | 14899555 - 14913798 | | FALSE | TRUE |
| 11 | 14899555 - 14913798 | | FALSE | TRUE |
| 16 | 30064411 - 30081741 | F - 17.65% | TRUE | FALSE |
| 16 | 30064411 - 30081741 | | TRUE | TRUE |
| 16 | 30064411 - 30081741 | F - 35.29% | TRUE | TRUE |
| 16 | 30064411 - 30081741 | | TRUE | TRUE |
| 16 | 30064411 - 30081741 | F - 35.29% | TRUE | TRUE |
| 16 | 30064411 - 30081741 | | TRUE | TRUE |
| 16 | 30064411 - 30081741 | F - 11.76% | TRUE | TRUE |
| 16 | 30064411 - 30081741 | | TRUE | TRUE |
| 16 | 30064411 - 30081741 | | TRUE | TRUE |
| 16 | 30064411 - 30081741 | F - 11.76% | TRUE | TRUE |
| 16 | 30064411 - 30081741 | F - 17.65% | TRUE | TRUE |
| 16 | 56225251 - 56391356 | | TRUE | TRUE |
| 16 | 56225251 - 56391356 | | TRUE | TRUE |
| 16 | 56225251 - 56391356 | T - 60.00% | TRUE | TRUE |
| 16 | 56225251 - 56391356 | T - 60.00% | TRUE | TRUE |
| 16 | 56225251 - 56391356 | | FALSE | TRUE |
| 16 | 56225251 - 56391356 | | FALSE | TRUE |
| 1 | 55532032 - 55681039 | F - 22.22% | TRUE | TRUE |
| 1 | 55532032 - 55681039 | | TRUE | TRUE |
| 1 | 55532032 - 55681039 | | TRUE | TRUE |
| 1 | 55532032 - 55681039 | | TRUE | TRUE |
| 1 | 55532032 - 55681039 | | FALSE | TRUE |
| 7 | 150497491 - 150502208 | | TRUE | TRUE |
| 7 | 150497491 - 150502208 | | TRUE | TRUE |
| 7 | 150497491 - 150502208 | F - 46.15% | TRUE | TRUE |
| 8 | 143783670 - 143808391 | T - 100.00% | TRUE | TRUE |
| 8 | 143783670 - 143808391 | | TRUE | TRUE |
| 9 | 40760700 - 40836415 | | TRUE | TRUE |
| 9 | 40760700 - 40836415 | T - 60.00% | TRUE | TRUE |
| 9 | 40760700 - 40836415 | T - 60.00% | TRUE | TRUE |
| 11 | 20385231 - 20405329 | | TRUE | TRUE |
| 11 | 20385231 - 20405329 | F - 31.25% | FALSE | TRUE |
| 11 | 20385231 - 20405329 | F - 25.00% | FALSE | TRUE |
| 17 | 37844393 - 37884915 | | TRUE | FALSE |
| 17 | 37844393 - 37884915 | F - 20.00% | TRUE | TRUE |
| 17 | 37844393 - 37884915 | | TRUE | TRUE |
| 17 | 34083269 - 34122640 | | TRUE | TRUE |
| 17 | 34083269 - 34122640 | T - 100.00% | TRUE | TRUE |
| 17 | 34083269 - 34122640 | | TRUE | FALSE |
| 17 | 34083269 - 34122640 | | TRUE | TRUE |
| 17 | 34083269 - 34122640 | F - 12.50% | TRUE | TRUE |
| 19 | 52196593 - 52208443 | | TRUE | FALSE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 19 | 52196593 - 52208443 | T - 50.00% | TRUE | TRUE |
| 6_mann_hap4 | 2430884 - 2456237 | | TRUE | FALSE |
| 6_mann_hap4 | 2430884 - 2456237 | | TRUE | FALSE |
| 6_mann_hap4 | 2430884 - 2456237 | | TRUE | TRUE |
| 6_mann_hap4 | 2430884 - 2456237 | T - 66.67% | TRUE | TRUE |
| 6_mcf_hap5 | 2464452 - 2489814 | | TRUE | FALSE |
| 6_mcf_hap5 | 2464452 - 2489814 | | TRUE | FALSE |
| 6_mcf_hap5 | 2464452 - 2489814 | | TRUE | TRUE |
| 6_mcf_hap5 | 2464452 - 2489814 | T - 66.67% | TRUE | TRUE |
| 1 | 35525387 - 35581460 | | TRUE | FALSE |
| 1 | 35525387 - 35581460 | F - 6.25% | TRUE | TRUE |
| 1 | 35525387 - 35581460 | | TRUE | FALSE |
| 1 | 35525387 - 35581460 | F - 12.50% | TRUE | TRUE |
| 1 | 35525387 - 35581460 | | TRUE | TRUE |
| 6 | 29759100 - 29765588 | T - 66.67% | TRUE | TRUE |
| 6 | 29759100 - 29765588 | F - 33.33% | TRUE | TRUE |
| 6 | 29759100 - 29765588 | | TRUE | TRUE |
| 6 | 29759100 - 29765588 | | FALSE | TRUE |
| 6 | 29759100 - 29765588 | F - 33.33% | FALSE | TRUE |
| 6 | 29968788 - 30029417 | F - 15.38% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 15.38% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 15.38% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 7.69% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 7.69% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | T - 53.85% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 30.77% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 7.69% | FALSE | TRUE |
| 6 | 29968788 - 30029417 | | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 38.46% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 23.08% | FALSE | TRUE |
| 6 | 29968788 - 30029417 | F - 38.46% | TRUE | TRUE |
| 6 | 29968788 - 30029417 | F - 46.15% | FALSE | TRUE |
| 6 | 29968788 - 30029417 | F - 7.69% | FALSE | TRUE |
| 6 | 29968788 - 30029417 | | FALSE | TRUE |
| 9 | 131217434 - 131263571 | F - 3.92% | TRUE | TRUE |
| 9 | 131217434 - 131263571 | | TRUE | FALSE |
| 9 | 131217434 - 131263571 | | TRUE | TRUE |
| 9 | 131217434 - 131263571 | | TRUE | TRUE |
| 9 | 131217434 - 131263571 | | TRUE | TRUE |
| 9 | 131217434 - 131263571 | F - 3.92% | FALSE | TRUE |
| 9 | 131217434 - 131263571 | F - 31.37% | TRUE | TRUE |
| 9 | 131217434 - 131263571 | | TRUE | TRUE |
| 9 | 131217434 - 131263571 | | TRUE | TRUE |
| 11 | 74303575 - 74354102 | | TRUE | FALSE |
| 11 | 74303575 - 74354102 | | TRUE | FALSE |
| 11 | 74303575 - 74354102 | F - 28.57% | TRUE | TRUE |
| 12 | 58937907 - 59206842 | | TRUE | TRUE |
| 12 | 58937907 - 59206842 | T - 100.00% | TRUE | TRUE |
| 12 | 93936239 - 93965544 | T - 50.00% | TRUE | TRUE |
| 12 | 93936239 - 93965544 | T - 50.00% | FALSE | TRUE |
| 12 | 93936239 - 93965544 | | TRUE | TRUE |
| 12 | 93936239 - 93965544 | | TRUE | TRUE |
| 12 | 93936239 - 93965544 | T - 100.00% | TRUE | TRUE |
| 20 | 62375019 - 62462597 | | TRUE | TRUE |
| 20 | 62375019 - 62462597 | F - 25.00% | TRUE | TRUE |
| 1 | 162794248 - 162838605 | | TRUE | TRUE |
| 1 | 162794248 - 162838605 | T - 66.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 162794248 - 162838605 | T - 83.33% | TRUE | TRUE |
| 4 | 1160720 - 1202750 | F - 36.67% | TRUE | TRUE |
| 4 | 1160720 - 1202750 | | TRUE | TRUE |
| 4 | 1160720 - 1202750 | F - 30.00% | TRUE | TRUE |
| 4 | 1160720 - 1202750 | | TRUE | TRUE |
| 4 | 1160720 - 1202750 | | TRUE | TRUE |
| 4 | 1160720 - 1202750 | F - 20.00% | TRUE | TRUE |
| 4 | 1160720 - 1202750 | | TRUE | TRUE |
| 4 | 1160720 - 1202750 | | FALSE | TRUE |
| 4 | 1160720 - 1202750 | | FALSE | TRUE |
| 4 | 1160720 - 1202750 | | FALSE | TRUE |
| 8 | 182137 - 197342 | | TRUE | TRUE |
| 8 | 182137 - 197342 | | TRUE | FALSE |
| 8 | 182137 - 197342 | F - 33.33% | TRUE | TRUE |
| 8 | 182137 - 197342 | F - 5.56% | TRUE | TRUE |
| 8 | 182137 - 197342 | F - 38.89% | TRUE | TRUE |
| 8 | 182137 - 197342 | T - 72.22% | TRUE | TRUE |
| 14 | 32798479 - 33302268 | | TRUE | FALSE |
| 14 | 32798479 - 33302268 | T - 70.00% | TRUE | TRUE |
| 14 | 32798479 - 33302268 | | FALSE | TRUE |
| 16 | 1413206 - 1464705 | | TRUE | FALSE |
| 16 | 1413206 - 1464705 | | TRUE | TRUE |
| 16 | 1413206 - 1464705 | F - 4.55% | TRUE | TRUE |
| 16 | 1413206 - 1464705 | | TRUE | TRUE |
| 16 | 1413206 - 1464705 | | TRUE | TRUE |
| 16 | 1413206 - 1464705 | | TRUE | TRUE |
| 16 | 1413206 - 1464705 | | FALSE | TRUE |
| 17 | 18086392 - 18113268 | | TRUE | TRUE |
| 17 | 18086392 - 18113268 | T - 71.43% | TRUE | TRUE |
| 17 | 18086392 - 18113268 | | TRUE | TRUE |
| 17 | 18086392 - 18113268 | F - 14.29% | TRUE | TRUE |
| 17 | 18086392 - 18113268 | F - 42.86% | TRUE | TRUE |
| 17 | 18086392 - 18113268 | F - 28.57% | TRUE | TRUE |
| 20 | 2815960 - 2821836 | F - 21.43% | TRUE | FALSE |
| 20 | 2815960 - 2821836 | | FALSE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | FALSE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | F - 2.13% | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | F - 4.26% | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 5 | 140710204 - 140892548 | | TRUE | TRUE |
| 8 | 104310661 - 104345094 | | TRUE | FALSE |
| 8 | 104310661 - 104345094 | F - 21.43% | TRUE | TRUE |
| 8 | 74857354 - 74884522 | | TRUE | FALSE |
| 8 | 74857354 - 74884522 | T - 59.09% | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | TRUE | FALSE |
| 16 | 58497549 - 58547523 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 16 | 58497549 - 58547523 | | TRUE | TRUE |
| 16 | 58497549 - 58547523 | F - 12.50% | TRUE | FALSE |
| 16 | 58497549 - 58547523 | F - 12.50% | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | TRUE | TRUE |
| 16 | 58497549 - 58547523 | F - 6.25% | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | FALSE | TRUE |
| 16 | 58497549 - 58547523 | T - 93.75% | TRUE | TRUE |
| 16 | 58497549 - 58547523 | F - 18.75% | TRUE | TRUE |
| 16 | 58497549 - 58547523 | F - 6.25% | FALSE | TRUE |
| 16 | 58497549 - 58547523 | F - 6.25% | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | TRUE | TRUE |
| 16 | 58497549 - 58547523 | | FALSE | TRUE |
| 19 | 35447258 - 35454953 | | TRUE | TRUE |
| 19 | 35447258 - 35454953 | T - 66.67% | TRUE | TRUE |
| 19 | 49340354 - 49371884 | | TRUE | TRUE |
| 19 | 49340354 - 49371884 | T - 100.00% | TRUE | TRUE |
| 19 | 49340354 - 49371884 | | FALSE | TRUE |
| 19 | 49340354 - 49371884 | | FALSE | TRUE |
| 1 | 63906441 - 64059392 | | TRUE | FALSE |
| 1 | 63906441 - 64059392 | F - 4.76% | TRUE | TRUE |
| 1 | 63906441 - 64059392 | | TRUE | TRUE |
| 1 | 63906441 - 64059392 | | TRUE | TRUE |
| 1 | 63906441 - 64059392 | | FALSE | TRUE |
| 1 | 63906441 - 64059392 | | FALSE | TRUE |
| 8 | 21777180 - 21864096 | | TRUE | TRUE |
| 8 | 21777180 - 21864096 | F - 13.33% | TRUE | TRUE |
| 8 | 21777180 - 21864096 | F - 6.67% | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | TRUE | FALSE |
| 11 | 102980160 - 103350591 | | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | TRUE | FALSE |
| 11 | 102980160 - 103350591 | | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | TRUE | TRUE |
| 11 | 102980160 - 103350591 | T - 66.67% | TRUE | TRUE |
| 11 | 102980160 - 103350591 | | FALSE | TRUE |
| 11 | 102980160 - 103350591 | | FALSE | TRUE |
| 15 | 59279854 - 59389618 | F - 35.71% | TRUE | TRUE |
| 15 | 59279854 - 59389618 | T - 78.57% | TRUE | TRUE |
| 15 | 59279854 - 59389618 | | TRUE | TRUE |
| 15 | 59279854 - 59389618 | | FALSE | TRUE |
| 15 | 60771377 - 60922836 | | TRUE | TRUE |
| 15 | 60771377 - 60922836 | T - 50.00% | TRUE | TRUE |
| 15 | 60771377 - 60922836 | F - 12.50% | FALSE | TRUE |
| 17 | 29630788 - 29641130 | | TRUE | FALSE |
| 17 | 29630788 - 29641130 | | TRUE | TRUE |
| 17 | 29630788 - 29641130 | T - 100.00% | TRUE | TRUE |
| 11 | 30406040 - 30608537 | | TRUE | TRUE |
| 11 | 30406040 - 30608537 | | TRUE | TRUE |
| 11 | 30406040 - 30608537 | | TRUE | TRUE |
| 11 | 30406040 - 30608537 | F - 12.50% | TRUE | FALSE |
| 12 | 44122410 - 44152620 | T - 90.00% | TRUE | FALSE |
| 12 | 44122410 - 44152620 | | FALSE | TRUE |
| 15 | 56657625 - 56738195 | | TRUE | TRUE |
| 15 | 56657625 - 56738195 | T - 87.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 15 | 70946893 - 71055932 | F - 38.46% | TRUE | TRUE |
| 15 | 70946893 - 71055932 | | TRUE | TRUE |
| 15 | 70946893 - 71055932 | T - 53.85% | TRUE | TRUE |
| 15 | 70946893 - 71055932 | | TRUE | TRUE |
| 15 | 70946893 - 71055932 | | TRUE | TRUE |
| 1 | 24958207 - 24999772 | F - 7.14% | TRUE | TRUE |
| 1 | 24958207 - 24999772 | | TRUE | TRUE |
| 1 | 24958207 - 24999772 | F - 7.14% | TRUE | TRUE |
| 1 | 24958207 - 24999772 | | TRUE | TRUE |
| 1 | 24958207 - 24999772 | | TRUE | TRUE |
| 1 | 24958207 - 24999772 | F - 10.71% | TRUE | TRUE |
| 4 | 6694796 - 6698897 | | TRUE | FALSE |
| 4 | 6694796 - 6698897 | T - 100.00% | TRUE | TRUE |
| 4 | 6694796 - 6698897 | | TRUE | TRUE |
| 4 | 6694796 - 6698897 | F - 25.00% | FALSE | TRUE |
| 4 | 26165077 - 26436752 | F - 2.50% | TRUE | TRUE |
| 4 | 26165077 - 26436752 | | TRUE | FALSE |
| 4 | 26165077 - 26436752 | | TRUE | FALSE |
| 8 | 104383743 - 104395232 | | TRUE | TRUE |
| 8 | 104383743 - 104395232 | T - 55.56% | TRUE | TRUE |
| 8 | 104383743 - 104395232 | | TRUE | TRUE |
| 8 | 104383743 - 104395232 | T - 55.56% | TRUE | TRUE |
| 8 | 104383743 - 104395232 | F - 22.22% | TRUE | TRUE |
| 8 | 104383743 - 104395232 | F - 22.22% | TRUE | TRUE |
| 10 | 43069631 - 43134018 | | TRUE | TRUE |
| 10 | 43069631 - 43134018 | F - 30.77% | TRUE | FALSE |
| 13 | 40918094 - 41055143 | | TRUE | FALSE |
| 13 | 40918094 - 41055143 | T - 50.00% | TRUE | TRUE |
| 15 | 60780483 - 61521518 | | TRUE | TRUE |
| 15 | 60780483 - 61521518 | F - 33.33% | TRUE | TRUE |
| 15 | 60780483 - 61521518 | | TRUE | TRUE |
| 15 | 60780483 - 61521518 | F - 25.00% | TRUE | TRUE |
| 15 | 60780483 - 61521518 | F - 16.67% | TRUE | TRUE |
| 15 | 60780483 - 61521518 | F - 16.67% | TRUE | TRUE |
| 15 | 60780483 - 61521518 | F - 16.67% | TRUE | TRUE |
| 16 | 56598961 - 56602869 | | TRUE | TRUE |
| 16 | 56598961 - 56602869 | T - 100.00% | TRUE | TRUE |
| 19 | 2819872 - 2836733 | T - 66.67% | TRUE | FALSE |
| 19 | 2819872 - 2836733 | | TRUE | TRUE |
| 19 | 2819872 - 2836733 | | TRUE | TRUE |
| 1 | 38032413 - 38061586 | F - 6.67% | TRUE | FALSE |
| 1 | 38032413 - 38061586 | | TRUE | TRUE |
| 1 | 38032413 - 38061586 | | TRUE | TRUE |
| 1 | 38032413 - 38061586 | | TRUE | TRUE |
| 1 | 212113741 - 212209002 | | TRUE | TRUE |
| 1 | 212113741 - 212209002 | | TRUE | TRUE |
| 1 | 212113741 - 212209002 | F - 6.25% | TRUE | TRUE |
| 1 | 212113741 - 212209002 | | TRUE | TRUE |
| 8 | 95907995 - 96128683 | | TRUE | TRUE |
| 8 | 95907995 - 96128683 | | TRUE | FALSE |
| 8 | 95907995 - 96128683 | F - 4.35% | TRUE | FALSE |
| 8 | 95907995 - 96128683 | | TRUE | TRUE |
| 8 | 95907995 - 96128683 | | TRUE | FALSE |
| 8 | 95907995 - 96128683 | | TRUE | TRUE |
| 8 | 95907995 - 96128683 | F - 26.09% | TRUE | TRUE |
| 8 | 95907995 - 96128683 | | TRUE | TRUE |
| 8 | 95907995 - 96128683 | | TRUE | TRUE |
| 8 | 95907995 - 96128683 | F - 30.43% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 94833232 - 94837647 | | TRUE | FALSE |
| 10 | 94833232 - 94837647 | T - 100.00% | TRUE | FALSE |
| 10 | 94833232 - 94837647 | T - 100.00% | TRUE | TRUE |
| 10 | 94833232 - 94837647 | | TRUE | FALSE |
| 10 | 94833232 - 94837647 | | TRUE | TRUE |
| 10 | 94833232 - 94837647 | T - 75.00% | TRUE | TRUE |
| 10 | 94833232 - 94837647 | F - 25.00% | TRUE | TRUE |
| 10 | 94833232 - 94837647 | T - 50.00% | TRUE | TRUE |
| 10 | 94833232 - 94837647 | | TRUE | TRUE |
| 12 | 99128462 - 100378432 | | TRUE | TRUE |
| 12 | 99128462 - 100378432 | | TRUE | TRUE |
| 12 | 99128462 - 100378432 | | TRUE | TRUE |
| 12 | 99128462 - 100378432 | T - 93.94% | TRUE | TRUE |
| 12 | 99128462 - 100378432 | | TRUE | FALSE |
| 12 | 99128462 - 100378432 | F - 21.21% | TRUE | TRUE |
| 12 | 99128462 - 100378432 | F - 15.15% | TRUE | TRUE |
| 12 | 99128462 - 100378432 | | TRUE | TRUE |
| 12 | 99128462 - 100378432 | F - 27.27% | FALSE | TRUE |
| 12 | 99128462 - 100378432 | F - 12.12% | TRUE | TRUE |
| 12 | 99128462 - 100378432 | F - 24.24% | TRUE | TRUE |
| 12 | 99128462 - 100378432 | F - 24.24% | TRUE | TRUE |
| 12 | 99128462 - 100378432 | | FALSE | TRUE |
| 12 | 99128462 - 100378432 | F - 24.24% | FALSE | TRUE |
| 12 | 99128462 - 100378432 | | FALSE | TRUE |
| 12 | 99128462 - 100378432 | | FALSE | TRUE |
| 2 | 43864412 - 43995126 | F - 8.33% | TRUE | TRUE |
| 2 | 43864412 - 43995126 | F - 16.67% | TRUE | TRUE |
| 2 | 43864412 - 43995126 | T - 58.33% | TRUE | TRUE |
| 2 | 43864412 - 43995126 | F - 8.33% | FALSE | TRUE |
| 2 | 43864412 - 43995126 | | FALSE | TRUE |
| 2 | 43864412 - 43995126 | F - 8.33% | TRUE | TRUE |
| 2 | 43864412 - 43995126 | | TRUE | TRUE |
| 2 | 43864412 - 43995126 | T - 66.67% | TRUE | TRUE |
| 2 | 43864412 - 43995126 | F - 25.00% | TRUE | TRUE |
| 2 | 43864412 - 43995126 | | TRUE | TRUE |
| 2 | 43864412 - 43995126 | | TRUE | TRUE |
| 2 | 43864412 - 43995126 | | FALSE | TRUE |
| 2 | 43864412 - 43995126 | | TRUE | TRUE |
| 2 | 228029281 - 228179508 | | TRUE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | TRUE | TRUE |
| 2 | 228029281 - 228179508 | | TRUE | TRUE |
| 2 | 228029281 - 228179508 | | TRUE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | TRUE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | TRUE | TRUE |
| 2 | 228029281 - 228179508 | | TRUE | TRUE |
| 2 | 228029281 - 228179508 | | TRUE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | TRUE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | FALSE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | TRUE | TRUE |
| 2 | 228029281 - 228179508 | F - 41.67% | FALSE | TRUE |
| 2 | 153508107 - 153574511 | F - 5.00% | TRUE | TRUE |
| 2 | 153508107 - 153574511 | | TRUE | TRUE |
| 2 | 153508107 - 153574511 | | TRUE | TRUE |
| 3 | 57994127 - 58157982 | F - 17.39% | TRUE | TRUE |
| 3 | 57994127 - 58157982 | F - 8.70% | TRUE | TRUE |
| 3 | 57994127 - 58157982 | | TRUE | TRUE |
| 3 | 57994127 - 58157982 | F - 13.04% | TRUE | TRUE |
| 3 | 57994127 - 58157982 | F - 4.35% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 87564699 - 87732502 | | TRUE | FALSE |
| 5 | 87564699 - 87732502 | | TRUE | TRUE |
| 5 | 87564699 - 87732502 | | TRUE | TRUE |
| 5 | 87564699 - 87732502 | F - 6.25% | TRUE | TRUE |
| 5 | 87564699 - 87732502 | | TRUE | TRUE |
| 5 | 87564699 - 87732502 | | FALSE | TRUE |
| 6 | 119255950 - 119352706 | | TRUE | TRUE |
| 6 | 119255950 - 119352706 | T - 100.00% | TRUE | TRUE |
| 7 | 101928405 - 101962178 | | TRUE | TRUE |
| 7 | 101928405 - 101962178 | | FALSE | TRUE |
| 7 | 101928405 - 101962178 | T - 83.33% | FALSE | TRUE |
| 15 | 40380091 - 40401093 | | TRUE | TRUE |
| 15 | 40380091 - 40401093 | T - 50.00% | TRUE | TRUE |
| 15 | 40380091 - 40401093 | T - 55.00% | TRUE | TRUE |
| 2 | 202152994 - 202222121 | | TRUE | TRUE |
| 2 | 202152994 - 202222121 | T - 76.92% | TRUE | TRUE |
| 5 | 79703832 - 79775498 | | TRUE | TRUE |
| 5 | 79703832 - 79775498 | | TRUE | TRUE |
| 5 | 79703832 - 79775498 | T - 60.00% | TRUE | FALSE |
| 5 | 79703832 - 79775498 | | TRUE | TRUE |
| 5 | 79703832 - 79775498 | F - 10.00% | TRUE | TRUE |
| 5 | 79703832 - 79775498 | | FALSE | TRUE |
| 10 | 29698331 - 29776785 | | TRUE | TRUE |
| 10 | 29698331 - 29776785 | F - 6.67% | TRUE | TRUE |
| 10 | 29698331 - 29776785 | F - 13.33% | TRUE | TRUE |
| 10 | 29698331 - 29776785 | F - 6.67% | TRUE | TRUE |
| 10 | 29698331 - 29776785 | | TRUE | TRUE |
| 15 | 101844133 - 102030187 | T - 75.00% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | | TRUE | TRUE |
| 15 | 101844133 - 102030187 | | TRUE | TRUE |
| 15 | 101844133 - 102030187 | T - 87.50% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | F - 16.67% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | TRUE | TRUE |
| 15 | 101844133 - 102030187 | F - 8.33% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | F - 4.17% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | | TRUE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | T - 87.50% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | T - 95.83% | FALSE | TRUE |
| 15 | 101844133 - 102030187 | T - 95.83% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | | TRUE | TRUE |
| 15 | 101844133 - 102030187 | T - 95.83% | FALSE | TRUE |
| 15 | 101844133 - 102030187 | T - 83.33% | TRUE | TRUE |
| 15 | 101844133 - 102030187 | T - 50.00% | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | F - 37.50% | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 15 | 101844133 - 102030187 | | FALSE | TRUE |
| 22 | 41074754 - 41078818 | | TRUE | TRUE |
| 22 | 41074754 - 41078818 | | TRUE | TRUE |
| 22 | 41074754 - 41078818 | T - 85.71% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 22 | 41074754 - 41078818 | T - 57.14% | TRUE | TRUE |
| 22 | 41074754 - 41078818 | | FALSE | TRUE |
| 22 | 41074754 - 41078818 | T - 85.71% | TRUE | TRUE |
| 22 | 41074754 - 41078818 | T - 100.00% | TRUE | TRUE |
| 1 | 955503 - 991499 | | TRUE | FALSE |
| 1 | 955503 - 991499 | F - 8.33% | TRUE | FALSE |
| 1 | 955503 - 991499 | F - 25.00% | TRUE | TRUE |
| 1 | 955503 - 991499 | | TRUE | TRUE |
| 1 | 955503 - 991499 | | TRUE | TRUE |
| 1 | 955503 - 991499 | F - 25.00% | TRUE | TRUE |
| 1 | 955503 - 991499 | | TRUE | TRUE |
| 1 | 955503 - 991499 | | TRUE | TRUE |
| 1 | 955503 - 991499 | | FALSE | TRUE |
| 1 | 955503 - 991499 | | TRUE | TRUE |
| 1 | 11994262 - 12035599 | | TRUE | FALSE |
| 1 | 11994262 - 12035599 | F - 6.67% | TRUE | TRUE |
| 2 | 152266397 - 152364527 | | TRUE | TRUE |
| 2 | 152266397 - 152364527 | | TRUE | FALSE |
| 2 | 152266397 - 152364527 | F - 9.09% | TRUE | TRUE |
| 2 | 152266397 - 152364527 | F - 18.18% | TRUE | TRUE |
| 2 | 152266397 - 152364527 | | TRUE | TRUE |
| 2 | 152266397 - 152364527 | | TRUE | TRUE |
| 3 | 69788586 - 70017488 | | TRUE | TRUE |
| 3 | 69788586 - 70017488 | | TRUE | TRUE |
| 3 | 69788586 - 70017488 | F - 7.14% | TRUE | TRUE |
| 3 | 69788586 - 70017488 | | TRUE | TRUE |
| 3 | 69788586 - 70017488 | F - 7.14% | TRUE | FALSE |
| 3 | 69788586 - 70017488 | | TRUE | TRUE |
| 3 | 69788586 - 70017488 | F - 3.57% | TRUE | FALSE |
| 3 | 69788586 - 70017488 | | TRUE | TRUE |
| 3 | 69788586 - 70017488 | F - 42.86% | TRUE | TRUE |
| 3 | 184097861 - 184108524 | | TRUE | FALSE |
| 3 | 184097861 - 184108524 | F - 4.17% | TRUE | TRUE |
| 3 | 184097861 - 184108524 | | FALSE | TRUE |
| 4 | 2470456 - 2517586 | | TRUE | TRUE |
| 4 | 2470456 - 2517586 | F - 7.69% | TRUE | TRUE |
| 4 | 2470456 - 2517586 | | TRUE | TRUE |
| 4 | 2470456 - 2517586 | | FALSE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 76.92% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 6 | 129204286 - 129837714 | T - 92.31% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 76.92% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 76.92% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 76.92% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | F - 7.69% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 84.62% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | F - 7.69% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | F - 15.38% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 69.23% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 61.54% | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | FALSE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | T - 53.85% | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | TRUE | TRUE |
| 6 | 129204286 - 129837714 | | FALSE | TRUE |
| 10 | 64571756 - 64679660 | T - 100.00% | TRUE | FALSE |
| 10 | 64571756 - 64679660 | | TRUE | FALSE |
| 10 | 64571756 - 64679660 | T - 100.00% | TRUE | TRUE |
| 10 | 64571756 - 64679660 | T - 54.55% | TRUE | TRUE |
| 10 | 64571756 - 64679660 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 64571756 - 64679660 | T - 81.82% | TRUE | FALSE |
| 10 | 64571756 - 64679660 | T - 81.82% | TRUE | TRUE |
| 10 | 64571756 - 64679660 | F - 9.09% | TRUE | TRUE |
| 10 | 64571756 - 64679660 | T - 81.82% | TRUE | FALSE |
| 10 | 64571756 - 64679660 | | TRUE | TRUE |
| 10 | 64571756 - 64679660 | F - 9.09% | TRUE | TRUE |
| 10 | 64571756 - 64679660 | F - 9.09% | TRUE | TRUE |
| 10 | 64571756 - 64679660 | | TRUE | TRUE |
| 13 | 52741844 - 52908412 | | TRUE | FALSE |
| 13 | 52741844 - 52908412 | F - 30.00% | TRUE | FALSE |
| 13 | 52741844 - 52908412 | | TRUE | TRUE |
| 13 | 52741844 - 52908412 | | TRUE | TRUE |
| 13 | 52741844 - 52908412 | | TRUE | FALSE |
| 13 | 52741844 - 52908412 | F - 10.00% | TRUE | TRUE |
| 13 | 52741844 - 52908412 | | TRUE | TRUE |
| 13 | 52741844 - 52908412 | F - 30.00% | TRUE | TRUE |
| 17 | 48172101 - 48189516 | | TRUE | TRUE |
| 17 | 48172101 - 48189516 | F - 18.18% | TRUE | TRUE |
| 17 | 48172101 - 48189516 | F - 4.55% | FALSE | TRUE |
| 17 | 48172101 - 48189516 | F - 4.55% | FALSE | TRUE |
| 17 | 48172101 - 48189516 | F - 9.09% | TRUE | TRUE |
| 17 | 48172101 - 48189516 | F - 4.55% | TRUE | TRUE |
| 17 | 48172101 - 48189516 | F - 9.09% | TRUE | TRUE |
| 17 | 48172101 - 48189516 | F - 9.09% | FALSE | TRUE |
| 17 | 80416060 - 80446143 | | TRUE | TRUE |
| 17 | 80416060 - 80446143 | F - 13.33% | TRUE | TRUE |
| 17 | 80416060 - 80446143 | | TRUE | TRUE |
| 17 | 80416060 - 80446143 | T - 86.67% | TRUE | TRUE |
| 17 | 20771746 - 20833046 | F - 25.00% | TRUE | TRUE |
| 17 | 20771746 - 20833046 | T - 50.00% | TRUE | TRUE |
| 17 | 20771746 - 20833046 | | TRUE | TRUE |
| 17 | 20771746 - 20833046 | | FALSE | TRUE |
| 17 | 20771746 - 20833046 | T - 75.00% | TRUE | TRUE |
| 17 | 20771746 - 20833046 | | TRUE | TRUE |
| 17 | 20771746 - 20833046 | | TRUE | TRUE |
| 19 | 9964394 - 10047070 | | TRUE | TRUE |
| 19 | 9964394 - 10047070 | T - 100.00% | TRUE | TRUE |
| 19 | 9964394 - 10047070 | | TRUE | TRUE |
| 20 | 30326904 - 30389608 | | TRUE | TRUE |
| 20 | 30326904 - 30389608 | | TRUE | TRUE |
| 20 | 30326904 - 30389608 | F - 33.33% | TRUE | TRUE |
| 20 | 30326904 - 30389608 | T - 66.67% | FALSE | TRUE |
| 20 | 30326904 - 30389608 | T - 100.00% | TRUE | TRUE |
| 20 | 30326904 - 30389608 | | TRUE | TRUE |
| 20 | 30326904 - 30389608 | | TRUE | TRUE |
| 20 | 30326904 - 30389608 | | TRUE | TRUE |
| 1 | 27681670 - 27693383 | | TRUE | TRUE |
| 1 | 27681670 - 27693383 | F - 8.33% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | | TRUE | TRUE |
| 2 | 162848751 - 162931052 | | TRUE | FALSE |
| 2 | 162848751 - 162931052 | F - 40.00% | TRUE | FALSE |
| 2 | 162848751 - 162931052 | T - 53.33% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | F - 26.67% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | | TRUE | TRUE |
| 2 | 162848751 - 162931052 | | TRUE | FALSE |
| 2 | 162848751 - 162931052 | | TRUE | TRUE |
| 2 | 162848751 - 162931052 | F - 20.00% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | T - 66.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 162848751 - 162931052 | F - 6.67% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | F - 26.67% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | | FALSE | TRUE |
| 2 | 162848751 - 162931052 | F - 6.67% | TRUE | TRUE |
| 2 | 162848751 - 162931052 | F - 6.67% | FALSE | TRUE |
| 8 | 106330920 - 106816767 | | TRUE | TRUE |
| 8 | 106330920 - 106816767 | | TRUE | FALSE |
| 8 | 106330920 - 106816767 | | TRUE | TRUE |
| 8 | 106330920 - 106816767 | F - 25.00% | FALSE | TRUE |
| 8 | 106330920 - 106816767 | | TRUE | TRUE |
| 8 | 106330920 - 106816767 | F - 8.33% | TRUE | TRUE |
| 8 | 106330920 - 106816767 | F - 8.33% | TRUE | TRUE |
| 8 | 106330920 - 106816767 | F - 8.33% | TRUE | TRUE |
| 8 | 106330920 - 106816767 | T - 58.33% | TRUE | TRUE |
| 8 | 106330920 - 106816767 | F - 8.33% | FALSE | TRUE |
| 9 | 102584137 - 102629173 | F - 16.67% | TRUE | FALSE |
| 9 | 102584137 - 102629173 | F - 16.67% | TRUE | FALSE |
| 9 | 102584137 - 102629173 | T - 66.67% | TRUE | TRUE |
| 9 | 102584137 - 102629173 | | TRUE | TRUE |
| 9 | 102584137 - 102629173 | | TRUE | TRUE |
| 9 | 102584137 - 102629173 | | TRUE | TRUE |
| 12 | 26488285 - 26986131 | | TRUE | FALSE |
| 12 | 26488285 - 26986131 | | TRUE | TRUE |
| 12 | 26488285 - 26986131 | | TRUE | TRUE |
| 12 | 26488285 - 26986131 | | TRUE | TRUE |
| 12 | 26488285 - 26986131 | | TRUE | TRUE |
| 12 | 26488285 - 26986131 | | FALSE | TRUE |
| 12 | 26488285 - 26986131 | F - 11.11% | TRUE | TRUE |
| 18 | 21742008 - 21977833 | | TRUE | TRUE |
| 18 | 21742008 - 21977833 | F - 10.00% | TRUE | TRUE |
| 18 | 21742008 - 21977833 | | TRUE | TRUE |
| 18 | 21742008 - 21977833 | F - 20.00% | FALSE | TRUE |
| 18 | 21742008 - 21977833 | T - 50.00% | TRUE | TRUE |
| 18 | 21742008 - 21977833 | | TRUE | FALSE |
| 18 | 21742008 - 21977833 | T - 50.00% | TRUE | TRUE |
| 18 | 21742008 - 21977833 | T - 70.00% | FALSE | TRUE |
| 18 | 21742008 - 21977833 | | FALSE | TRUE |
| 19 | 52494586 - 52511483 | | TRUE | TRUE |
| 19 | 52494586 - 52511483 | T - 84.62% | TRUE | TRUE |
| 1 | 217804666 - 218045038 | | TRUE | TRUE |
| 1 | 217804666 - 218045038 | T - 57.14% | TRUE | TRUE |
| 1 | 217804666 - 218045038 | | TRUE | FALSE |
| 1 | 217804666 - 218045038 | F - 14.29% | TRUE | TRUE |
| 1 | 217804666 - 218045038 | F - 14.29% | TRUE | TRUE |
| 1 | 217804666 - 218045038 | | FALSE | TRUE |
| 1 | 217804666 - 218045038 | | TRUE | TRUE |
| 1 | 217804666 - 218045038 | T - 57.14% | TRUE | TRUE |
| 1 | 217804666 - 218045038 | | TRUE | TRUE |
| 1 | 217804666 - 218045038 | | FALSE | TRUE |
| 4 | 39455744 - 39851922 | F - 4.35% | TRUE | TRUE |
| 4 | 39455744 - 39851922 | | TRUE | TRUE |
| 4 | 39455744 - 39851922 | | TRUE | TRUE |
| 4 | 39455744 - 39851922 | | TRUE | TRUE |
| 4 | 39455744 - 39851922 | F - 4.35% | TRUE | TRUE |
| 5 | 80708840 - 81047616 | | TRUE | FALSE |
| 5 | 80708840 - 81047616 | F - 3.70% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 4.55% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 4.55% | TRUE | FALSE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 4.55% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 4.55% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 31.82% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 45.45% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 45.45% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 31.82% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 31.82% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 4.55% | TRUE | TRUE |
| 6 | 43149913 - 43192325 | | TRUE | TRUE |
| 6 | 43149913 - 43192325 | F - 31.82% | TRUE | TRUE |
| 8 | 6264113 - 6501144 | | TRUE | FALSE |
| 8 | 6264113 - 6501144 | | TRUE | FALSE |
| 8 | 6264113 - 6501144 | F - 45.45% | TRUE | TRUE |
| 8 | 6264113 - 6501144 | | TRUE | TRUE |
| 8 | 6264113 - 6501144 | F - 9.09% | TRUE | TRUE |
| 8 | 6264113 - 6501144 | F - 9.09% | FALSE | TRUE |
| 8 | 48173167 - 48678652 | | TRUE | FALSE |
| 8 | 48173167 - 48678652 | | TRUE | TRUE |
| 8 | 48173167 - 48678652 | | TRUE | FALSE |
| 8 | 48173167 - 48678652 | | TRUE | TRUE |
| 8 | 48173167 - 48678652 | | TRUE | TRUE |
| 8 | 48173167 - 48678652 | F - 2.27% | TRUE | TRUE |
| 8 | 48173167 - 48678652 | F - 20.45% | FALSE | TRUE |
| 8 | 48173167 - 48678652 | | TRUE | TRUE |
| 8 | 48173167 - 48678652 | F - 29.55% | TRUE | TRUE |
| 8 | 48173167 - 48678652 | F - 34.09% | TRUE | TRUE |
| 8 | 144989321 - 145050913 | | TRUE | TRUE |
| 8 | 144989321 - 145050913 | | TRUE | TRUE |
| 8 | 144989321 - 145050913 | | TRUE | TRUE |
| 8 | 144989321 - 145050913 | F - 9.09% | TRUE | TRUE |
| 15 | 42705021 - 42783336 | F - 44.44% | TRUE | TRUE |
| 15 | 42705021 - 42783336 | | TRUE | FALSE |
| 16 | 70207722 - 70220798 | | TRUE | FALSE |
| 16 | 70207722 - 70220798 | | TRUE | TRUE |
| 16 | 70207722 - 70220798 | F - 14.29% | TRUE | TRUE |
| 16 | 70207722 - 70220798 | F - 14.29% | TRUE | TRUE |
| 19 | 1383526 - 1395588 | | TRUE | TRUE |
| 19 | 1383526 - 1395588 | | TRUE | TRUE |
| 19 | 1383526 - 1395588 | F - 11.76% | TRUE | TRUE |
| 6_mcf_hap5 | 1150036 - 1153497 | F - 33.33% | TRUE | TRUE |
| 6_mcf_hap5 | 1150036 - 1153497 | T - 66.67% | TRUE | TRUE |
| 6_mcf_hap5 | 1150036 - 1153497 | T - 66.67% | TRUE | TRUE |
| 6_mcf_hap5 | 1150036 - 1153497 | | TRUE | TRUE |
| 1 | 10458649 - 10480233 | | TRUE | TRUE |
| 1 | 10458649 - 10480233 | F - 5.88% | TRUE | FALSE |
| 1 | 10458649 - 10480233 | F - 5.88% | TRUE | FALSE |
| 1 | 185087218 - 185126230 | | TRUE | TRUE |
| 1 | 185087218 - 185126230 | F - 25.00% | TRUE | TRUE |
| 1 | 185087218 - 185126230 | | TRUE | TRUE |
| 1 | 16370247 - 16383803 | T - 62.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 16370247 - 16383803 | | TRUE | FALSE |
| 1 | 16370247 - 16383803 | | FALSE | TRUE |
| 2 | 11817721 - 11967535 | | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 29.63% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | FALSE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 7.41% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | FALSE | TRUE |
| 2 | 11817721 - 11967535 | F - 22.22% | FALSE | TRUE |
| 2 | 11817721 - 11967535 | F - 33.33% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 7.41% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | | FALSE | TRUE |
| 2 | 11817721 - 11967535 | | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 7.41% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 11.11% | FALSE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 48.15% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 3.70% | FALSE | TRUE |
| 2 | 11817721 - 11967535 | F - 7.41% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | F - 44.44% | TRUE | TRUE |
| 2 | 11817721 - 11967535 | | FALSE | TRUE |
| 2 | 11817721 - 11967535 | | TRUE | TRUE |
| 2 | 11817721 - 11967535 | | FALSE | TRUE |
| 2 | 11817721 - 11967535 | | TRUE | TRUE |
| 2 | 11817721 - 11967535 | | FALSE | TRUE |
| 4 | 2965335 - 3042474 | | TRUE | FALSE |
| 4 | 2965335 - 3042474 | F - 5.88% | TRUE | TRUE |
| 15 | 83517729 - 83621480 | | TRUE | TRUE |
| 15 | 83517729 - 83621480 | | TRUE | TRUE |
| 15 | 83517729 - 83621480 | | TRUE | TRUE |
| 15 | 83517729 - 83621480 | | TRUE | TRUE |
| 15 | 83517729 - 83621480 | T - 100.00% | TRUE | TRUE |
| 15 | 83517729 - 83621480 | | TRUE | TRUE |
| 15 | 83517729 - 83621480 | | TRUE | TRUE |
| 15 | 83517729 - 83621480 | T - 71.43% | TRUE | TRUE |
| 15 | 83517729 - 83621480 | F - 42.86% | TRUE | TRUE |
| 15 | 83517729 - 83621480 | T - 100.00% | TRUE | TRUE |
| 1 | 149804221 - 149811339 | | TRUE | TRUE |
| 1 | 149804221 - 149811339 | F - 28.57% | TRUE | TRUE |
| 1 | 149804221 - 149811339 | F - 14.29% | FALSE | TRUE |
| 1 | 19398604 - 19536770 | F - 5.88% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 8.82% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 26.47% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 8.82% | FALSE | TRUE |
| 1 | 19398604 - 19536770 | F - 2.94% | TRUE | TRUE |
| 1 | 19398604 - 19536770 | F - 5.88% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 1 | 19398604 - 19536770 | F - 5.88% | TRUE | TRUE |
| | 1 | 19398604 - 19536770 | | TRUE | TRUE |
| | 1 | 19398604 - 19536770 | F - 5.88% | TRUE | TRUE |
| | 3 | 136560568 - 136580896 | | TRUE | TRUE |
| | 3 | 136560568 - 136580896 | F - 33.33% | TRUE | TRUE |
| | 5 | 1392905 - 1445545 | | TRUE | FALSE |
| | 5 | 1392905 - 1445545 | T - 71.43% | TRUE | FALSE |
| | 5 | 1392905 - 1445545 | | FALSE | TRUE |
| | 7 | 107383247 - 107402083 | | TRUE | FALSE |
| | 7 | 107383247 - 107402083 | F - 25.00% | TRUE | TRUE |
| | 7 | 107383247 - 107402083 | | TRUE | TRUE |
| X | | 23801275 - 23804343 | | TRUE | TRUE |
| X | | 23801275 - 23804343 | | TRUE | TRUE |
| X | | 23801275 - 23804343 | F - 6.25% | TRUE | TRUE |
| X | | 23801275 - 23804343 | F - 12.50% | TRUE | TRUE |
| X | | 133930443 - 133988641 | | TRUE | TRUE |
| X | | 133930443 - 133988641 | | TRUE | TRUE |
| X | | 133930443 - 133988641 | F - 36.36% | TRUE | FALSE |
| X | | 133930443 - 133988641 | F - 40.91% | TRUE | TRUE |
| X | | 133930443 - 133988641 | | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | T - 64.29% | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | F - 7.14% | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | F - 14.29% | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | | FALSE | TRUE |
| | 13 | 32605437 - 32870794 | F - 7.14% | FALSE | TRUE |
| | 13 | 32605437 - 32870794 | | TRUE | TRUE |
| | 13 | 32605437 - 32870794 | | FALSE | TRUE |
| | 13 | 32605437 - 32870794 | | FALSE | TRUE |
| | 13 | 32605437 - 32870794 | | FALSE | TRUE |
| | 13 | 32605437 - 32870794 | | FALSE | TRUE |
| | 16 | 2039946 - 2044276 | | TRUE | FALSE |
| | 16 | 2039946 - 2044276 | T - 100.00% | FALSE | TRUE |
| | 2 | 211342406 - 211543831 | | TRUE | TRUE |
| | 2 | 211342406 - 211543831 | T - 50.00% | TRUE | TRUE |
| | 2 | 211342406 - 211543831 | | TRUE | TRUE |
| | 2 | 211342406 - 211543831 | | TRUE | TRUE |
| | 2 | 211342406 - 211543831 | F - 27.78% | TRUE | TRUE |
| | 2 | 211342406 - 211543831 | | TRUE | TRUE |
| | 2 | 211342406 - 211543831 | | FALSE | TRUE |
| | 4 | 419224 - 493442 | F - 10.53% | TRUE | TRUE |
| | 4 | 419224 - 493442 | | TRUE | TRUE |
| | 4 | 419224 - 493442 | T - 52.63% | TRUE | FALSE |
| | 4 | 419224 - 493442 | F - 21.05% | TRUE | TRUE |
| | 8 | 67474410 - 67525529 | F - 9.09% | TRUE | TRUE |
| | 8 | 67474410 - 67525529 | F - 9.09% | FALSE | TRUE |
| | 8 | 67474410 - 67525529 | F - 9.09% | FALSE | TRUE |
| | 8 | 67474410 - 67525529 | T - 90.91% | TRUE | TRUE |
| | 8 | 67474410 - 67525529 | T - 54.55% | FALSE | TRUE |
| | 8 | 67474410 - 67525529 | | TRUE | TRUE |
| | 8 | 67474410 - 67525529 | | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | F - 14.29% | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | | TRUE | TRUE |
| | 16 | 53088945 - 53361414 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 49193195 - 49244275 | | TRUE | TRUE |
| 1 | 49193195 - 49244275 | T - 81.82% | TRUE | FALSE |
| 1 | 49193195 - 49244275 | T - 72.73% | TRUE | TRUE |
| 1 | 49193195 - 49244275 | T - 54.55% | TRUE | TRUE |
| 1 | 49193195 - 49244275 | | FALSE | TRUE |
| 1 | 49193195 - 49244275 | T - 63.64% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 40.00% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 26.67% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 13.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 6.67% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 6.67% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 6.67% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 6.67% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 6.67% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 26.67% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | T - 53.33% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 26.67% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 33.33% | TRUE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 26.67% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 1 | 94458391 - 94586705 | F - 40.00% | FALSE | TRUE |
| 1 | 94458391 - 94586705 | | FALSE | TRUE |
| 7 | 47314752 - 47622156 | | TRUE | TRUE |
| 7 | 47314752 - 47622156 | | TRUE | TRUE |
| 7 | 47314752 - 47622156 | F - 4.55% | TRUE | TRUE |
| 7 | 47314752 - 47622156 | | TRUE | TRUE |
| 7 | 47314752 - 47622156 | | FALSE | TRUE |
| 11 | 134201768 - 134248235 | | TRUE | TRUE |
| 11 | 134201768 - 134248235 | | TRUE | TRUE |
| 11 | 134201768 - 134248235 | | TRUE | TRUE |
| 11 | 134201768 - 134248235 | F - 14.29% | TRUE | TRUE |
| 11 | 134201768 - 134248235 | | FALSE | TRUE |
| 14 | 74318534 - 74353530 | | TRUE | FALSE |
| 14 | 74318534 - 74353530 | F - 10.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 14 | 74318534 - 74353530 | F - 10.00% | TRUE | TRUE |
| 15 | 75890424 - 75918719 | F - 37.50% | TRUE | TRUE |
| 15 | 75890424 - 75918719 | F - 12.50% | TRUE | TRUE |
| 15 | 75890424 - 75918719 | F - 25.00% | TRUE | TRUE |
| 15 | 75890424 - 75918719 | | TRUE | TRUE |
| 15 | 75890424 - 75918719 | F - 25.00% | TRUE | TRUE |
| 15 | 75890424 - 75918719 | | TRUE | TRUE |
| 19 | 6729925 - 6737633 | | TRUE | TRUE |
| 19 | 6729925 - 6737633 | F - 14.29% | TRUE | TRUE |
| 20 | 25388321 - 25433264 | | TRUE | FALSE |
| 20 | 25388321 - 25433264 | T - 75.00% | TRUE | TRUE |
| 20 | 25388321 - 25433264 | F - 12.50% | TRUE | TRUE |
| 4 | 56262090 - 56292342 | | TRUE | FALSE |
| 4 | 56262090 - 56292342 | | TRUE | TRUE |
| 4 | 56262090 - 56292342 | | TRUE | TRUE |
| 4 | 56262090 - 56292342 | F - 18.75% | TRUE | TRUE |
| 4 | 56262090 - 56292342 | F - 6.25% | TRUE | TRUE |
| 4 | 56262090 - 56292342 | F - 6.25% | TRUE | TRUE |
| 7 | 127292202 - 127732661 | | TRUE | FALSE |
| 7 | 127292202 - 127732661 | F - 4.76% | TRUE | TRUE |
| 7 | 127292202 - 127732661 | | TRUE | TRUE |
| 7 | 127292202 - 127732661 | | TRUE | TRUE |
| 15 | 43699407 - 43802926 | | TRUE | FALSE |
| 15 | 43699407 - 43802926 | F - 5.26% | TRUE | TRUE |
| 15 | 43699407 - 43802926 | | TRUE | TRUE |
| 15 | 43699407 - 43802926 | | FALSE | TRUE |
| 15 | 43699407 - 43802926 | | FALSE | TRUE |
| 15 | 43699407 - 43802926 | | FALSE | TRUE |
| 15 | 43699407 - 43802926 | T - 57.89% | FALSE | TRUE |
| 15 | 43699407 - 43802926 | F - 5.26% | FALSE | TRUE |
| 19 | 46112658 - 46148775 | | TRUE | FALSE |
| 19 | 46112658 - 46148775 | | TRUE | TRUE |
| 19 | 46112658 - 46148775 | F - 46.67% | TRUE | TRUE |
| 19 | 46112658 - 46148775 | | TRUE | TRUE |
| 21 | 46340950 - 46349595 | | TRUE | TRUE |
| 21 | 46340950 - 46349595 | T - 62.50% | TRUE | FALSE |
| 1 | 110162126 - 110174677 | F - 4.17% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | | FALSE | TRUE |
| 1 | 110162126 - 110174677 | | TRUE | TRUE |
| 1 | 110162126 - 110174677 | | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 12.50% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 4.17% | FALSE | TRUE |
| 1 | 110162126 - 110174677 | | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 4.17% | FALSE | TRUE |
| 1 | 110162126 - 110174677 | F - 12.50% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 25.00% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 4.17% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 8.33% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | F - 29.17% | TRUE | TRUE |
| 1 | 110162126 - 110174677 | | TRUE | TRUE |
| 6 | 112429134 - 112576141 | | TRUE | TRUE |
| 6 | 112429134 - 112576141 | F - 3.13% | TRUE | TRUE |
| 6 | 112429134 - 112576141 | T - 56.25% | TRUE | TRUE |
| 6 | 112429134 - 112576141 | F - 3.13% | TRUE | TRUE |
| 6 | 112429134 - 112576141 | F - 6.25% | TRUE | TRUE |
| 6 | 112429134 - 112576141 | F - 12.50% | TRUE | TRUE |
| 6 | 112429134 - 112576141 | F - 37.50% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 6 | 112429134 - 112576141 | F - 25.00% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 28.13% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 6.25% | FALSE | TRUE |
| | 6 | 112429134 - 112576141 | F - 25.00% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 46.88% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 3.13% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 25.00% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 25.00% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 34.38% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 37.50% | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | F - 9.38% | FALSE | TRUE |
| | 6 | 112429134 - 112576141 | F - 3.13% | FALSE | TRUE |
| | 6 | 112429134 - 112576141 | | TRUE | TRUE |
| | 6 | 112429134 - 112576141 | | FALSE | TRUE |
| | 7 | 30028216 - 30065276 | | TRUE | TRUE |
| | 7 | 30028216 - 30065276 | | TRUE | TRUE |
| | 7 | 30028216 - 30065276 | T - 50.00% | TRUE | TRUE |
| X | | 70586114 - 70752224 | | TRUE | TRUE |
| X | | 70586114 - 70752224 | | TRUE | TRUE |
| X | | 70586114 - 70752224 | F - 24.24% | TRUE | TRUE |
| X | | 70586114 - 70752224 | | TRUE | TRUE |
| X | | 70586114 - 70752224 | | TRUE | TRUE |
| X | | 70586114 - 70752224 | F - 18.18% | TRUE | TRUE |
| X | | 70586114 - 70752224 | | TRUE | TRUE |
| X | | 70586114 - 70752224 | F - 12.12% | TRUE | TRUE |
| X | | 70586114 - 70752224 | | TRUE | FALSE |
| | 11 | 64532076 - 64546316 | | TRUE | TRUE |
| | 11 | 64532076 - 64546316 | F - 2.86% | TRUE | FALSE |
| | 11 | 64532076 - 64546316 | | FALSE | TRUE |
| | 15 | 28356186 - 28567298 | | TRUE | TRUE |
| | 15 | 28356186 - 28567298 | | TRUE | TRUE |
| | 15 | 28356186 - 28567298 | | TRUE | TRUE |
| | 15 | 28356186 - 28567298 | F - 40.00% | TRUE | TRUE |
| | 15 | 28356186 - 28567298 | | FALSE | TRUE |
| | 15 | 28356186 - 28567298 | | TRUE | TRUE |
| | 15 | 28356186 - 28567298 | | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | | TRUE | FALSE |
| | 19 | 50706885 - 50813802 | | TRUE | TRUE |
| | 19 | 50706885 - 50813802 | | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | | TRUE | TRUE |
| | 19 | 50706885 - 50813802 | | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | | TRUE | TRUE |
| | 19 | 50706885 - 50813802 | | TRUE | TRUE |
| | 19 | 50706885 - 50813802 | | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | T - 81.82% | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | | FALSE | TRUE |
| | 19 | 50706885 - 50813802 | | FALSE | TRUE |
| | 3 | 119316689 - 119348658 | | TRUE | TRUE |
| | 3 | 119316689 - 119348658 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 3 | 119316689 - 119348658 | F - 9.09% | FALSE | TRUE |
| 9 | 111934254 - 112083244 | | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 100.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | F - 33.33% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | F - 16.67% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 100.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 83.33% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | | FALSE | TRUE |
| 9 | 111934254 - 112083244 | F - 33.33% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | FALSE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 50.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 100.00% | FALSE | TRUE |
| 9 | 111934254 - 112083244 | T - 100.00% | FALSE | TRUE |
| 9 | 111934254 - 112083244 | T - 100.00% | TRUE | TRUE |
| 9 | 111934254 - 112083244 | T - 100.00% | TRUE | TRUE |
| 10 | 14880163 - 14913740 | | TRUE | TRUE |
| 10 | 14880163 - 14913740 | | TRUE | FALSE |
| 10 | 14880163 - 14913740 | | TRUE | FALSE |
| 10 | 14880163 - 14913740 | F - 13.33% | TRUE | FALSE |
| 10 | 14880163 - 14913740 | F - 20.00% | FALSE | TRUE |
| 12 | 2966847 - 2986321 | | TRUE | FALSE |
| 12 | 2966847 - 2986321 | | TRUE | FALSE |
| 12 | 2966847 - 2986321 | | TRUE | TRUE |
| 12 | 2966847 - 2986321 | | TRUE | TRUE |
| 12 | 2966847 - 2986321 | | TRUE | TRUE |
| 12 | 2966847 - 2986321 | | TRUE | TRUE |
| 12 | 2966847 - 2986321 | T - 81.82% | FALSE | TRUE |
| 2 | 191511472 - 191557492 | F - 29.41% | TRUE | TRUE |
| 2 | 191511472 - 191557492 | | TRUE | FALSE |
| X | 134382867 - 134478012 | | TRUE | TRUE |
| X | 134382867 - 134478012 | F - 11.11% | TRUE | TRUE |
| X | 134382867 - 134478012 | | TRUE | TRUE |
| X | 134382867 - 134478012 | F - 22.22% | TRUE | TRUE |
| X | 134382867 - 134478012 | T - 66.67% | TRUE | TRUE |
| X | 134382867 - 134478012 | | TRUE | TRUE |
| X | 134382867 - 134478012 | | FALSE | TRUE |
| X | 134382867 - 134478012 | | TRUE | TRUE |
| X | 15756393 - 15805748 | | FALSE | TRUE |
| X | 15756393 - 15805748 | | TRUE | TRUE |
| X | 15756393 - 15805748 | | TRUE | TRUE |
| X | 15756393 - 15805748 | F - 18.18% | TRUE | TRUE |
| X | 15756393 - 15805748 | F - 9.09% | TRUE | TRUE |
| X | 15756393 - 15805748 | | TRUE | TRUE |
| X | 15756393 - 15805748 | F - 9.09% | FALSE | TRUE |
| X | 15756393 - 15805748 | F - 45.45% | TRUE | TRUE |
| X | 15756393 - 15805748 | | TRUE | TRUE |
| X | 15756393 - 15805748 | | TRUE | TRUE |
| X | 15756393 - 15805748 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| X | 15756393 - 15805748 | | FALSE | TRUE |
| X | 15756393 - 15805748 | F - 45.45% | TRUE | TRUE |
| 11 | 107992243 - 108018891 | | TRUE | TRUE |
| 11 | 107992243 - 108018891 | T - 66.67% | TRUE | TRUE |
| 13 | 39612443 - 39625205 | | TRUE | FALSE |
| 13 | 39612443 - 39625205 | | FALSE | TRUE |
| 13 | 39612443 - 39625205 | F - 9.09% | TRUE | TRUE |
| 15 | 69706585 - 69740764 | | TRUE | FALSE |
| 15 | 69706585 - 69740764 | F - 6.67% | TRUE | TRUE |
| 15 | 69706585 - 69740764 | | TRUE | TRUE |
| 15 | 69706585 - 69740764 | | TRUE | TRUE |
| 15 | 69706585 - 69740764 | T - 60.00% | TRUE | TRUE |
| 15 | 69706585 - 69740764 | T - 66.67% | TRUE | TRUE |
| 15 | 69706585 - 69740764 | F - 13.33% | TRUE | TRUE |
| 3 | 122103023 - 122131181 | F - 14.29% | TRUE | TRUE |
| 3 | 122103023 - 122131181 | T - 85.71% | TRUE | TRUE |
| 3 | 122103023 - 122131181 | | FALSE | TRUE |
| 3 | 122103023 - 122131181 | | FALSE | TRUE |
| 3 | 122103023 - 122131181 | | TRUE | TRUE |
| 3 | 122103023 - 122131181 | T - 71.43% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | F - 23.08% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | F - 30.77% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | F - 7.69% | FALSE | TRUE |
| 3 | 50648951 - 50686728 | F - 7.69% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | F - 7.69% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | F - 30.77% | FALSE | TRUE |
| 3 | 50648951 - 50686728 | F - 7.69% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | F - 46.15% | TRUE | TRUE |
| 3 | 50648951 - 50686728 | | FALSE | TRUE |
| 8 | 7812535 - 7866277 | | TRUE | FALSE |
| 8 | 7812535 - 7866277 | T - 100.00% | TRUE | TRUE |
| 8 | 7812535 - 7866277 | T - 50.00% | TRUE | TRUE |
| 8 | 7812535 - 7866277 | | FALSE | TRUE |
| 8 | 7812535 - 7866277 | T - 50.00% | TRUE | TRUE |
| X | 3734598 - 3761935 | | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 7.69% | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 46.15% | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 38.46% | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 30.77% | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 7.69% | TRUE | TRUE |
| X | 3734598 - 3761935 | | TRUE | TRUE |
| X | 3734598 - 3761935 | | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 46.15% | TRUE | TRUE |
| X | 3734598 - 3761935 | F - 38.46% | TRUE | TRUE |
| X | 3734598 - 3761935 | | FALSE | TRUE |
| 11 | 78147007 - 78285909 | T - 50.00% | TRUE | TRUE |
| 11 | 78147007 - 78285909 | | TRUE | TRUE |
| 11 | 78147007 - 78285909 | F - 25.00% | TRUE | TRUE |
| 11 | 78147007 - 78285909 | | TRUE | TRUE |
| 1 | 43990858 - 44089343 | | TRUE | TRUE |
| 1 | 43990858 - 44089343 | | TRUE | TRUE |
| 1 | 43990858 - 44089343 | F - 16.00% | FALSE | TRUE |
| 1 | 43990858 - 44089343 | | TRUE | TRUE |
| 1 | 43990858 - 44089343 | | TRUE | TRUE |
| 1 | 43990858 - 44089343 | F - 4.00% | TRUE | TRUE |
| 1 | 43990858 - 44089343 | F - 8.00% | TRUE | TRUE |
| 1 | 43990858 - 44089343 | F - 20.00% | TRUE | TRUE |
| 1 | 43990858 - 44089343 | F - 48.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 43990858 - 44089343 | | FALSE | TRUE |
| 1 | 155882834 - 155904191 | | TRUE | TRUE |
| 1 | 155882834 - 155904191 | F - 6.25% | TRUE | TRUE |
| 1 | 155882834 - 155904191 | F - 6.25% | TRUE | TRUE |
| 3 | 197879237 - 197955678 | F - 25.00% | TRUE | FALSE |
| 3 | 197879237 - 197955678 | F - 25.00% | TRUE | TRUE |
| 3 | 197879237 - 197955678 | F - 25.00% | TRUE | TRUE |
| 3 | 197879237 - 197955678 | | TRUE | TRUE |
| 3 | 197879237 - 197955678 | F - 25.00% | TRUE | TRUE |
| 3 | 197879237 - 197955678 | | TRUE | TRUE |
| 3 | 197879237 - 197955678 | F - 25.00% | TRUE | TRUE |
| 6 | 143072604 - 143266338 | | TRUE | TRUE |
| 6 | 143072604 - 143266338 | F - 33.33% | TRUE | TRUE |
| 7 | 99156029 - 99174076 | | TRUE | FALSE |
| 7 | 99156029 - 99174076 | | TRUE | FALSE |
| 7 | 99156029 - 99174076 | F - 14.29% | FALSE | TRUE |
| 8 | 19674651 - 19709594 | | TRUE | FALSE |
| 8 | 19674651 - 19709594 | | TRUE | TRUE |
| 8 | 19674651 - 19709594 | | TRUE | TRUE |
| 8 | 19674651 - 19709594 | F - 35.00% | TRUE | TRUE |
| 8 | 19674651 - 19709594 | F - 5.00% | TRUE | TRUE |
| 10 | 90694831 - 90751147 | F - 7.14% | TRUE | TRUE |
| 10 | 90694831 - 90751147 | | TRUE | TRUE |
| 10 | 90694831 - 90751147 | | TRUE | TRUE |
| 10 | 90694831 - 90751147 | F - 7.14% | TRUE | TRUE |
| 10 | 90694831 - 90751147 | | TRUE | TRUE |
| 10 | 90694831 - 90751147 | | TRUE | TRUE |
| 10 | 90694831 - 90751147 | F - 21.43% | TRUE | TRUE |
| 10 | 90694831 - 90751147 | F - 28.57% | TRUE | TRUE |
| 10 | 90694831 - 90751147 | | TRUE | TRUE |
| 10 | 90694831 - 90751147 | F - 21.43% | TRUE | TRUE |
| 11 | 2920951 - 2946476 | F - 5.88% | TRUE | TRUE |
| 11 | 2920951 - 2946476 | F - 5.88% | TRUE | TRUE |
| 11 | 2920951 - 2946476 | | TRUE | FALSE |
| 11 | 2920951 - 2946476 | F - 5.88% | TRUE | TRUE |
| 11 | 2920951 - 2946476 | F - 5.88% | FALSE | TRUE |
| 11 | 2920951 - 2946476 | F - 11.76% | TRUE | TRUE |
| 11 | 2920951 - 2946476 | F - 11.76% | TRUE | TRUE |
| 11 | 2920951 - 2946476 | | TRUE | TRUE |
| 11 | 2920951 - 2946476 | | TRUE | TRUE |
| 11 | 2920951 - 2946476 | F - 5.88% | FALSE | TRUE |
| 11 | 2920951 - 2946476 | F - 11.76% | FALSE | TRUE |
| 11 | 2920951 - 2946476 | F - 5.88% | FALSE | TRUE |
| 11 | 2920951 - 2946476 | F - 5.88% | FALSE | TRUE |
| 11 | 2920951 - 2946476 | | TRUE | TRUE |
| 12 | 21590538 - 21624182 | | TRUE | TRUE |
| 12 | 21590538 - 21624182 | T - 100.00% | TRUE | TRUE |
| 16 | 33204980 - 33208179 | T - 100.00% | TRUE | TRUE |
| 16 | 33204980 - 33208179 | | TRUE | TRUE |
| 16 | 33204980 - 33208179 | | TRUE | TRUE |
| 16 | 33204980 - 33208179 | T - 50.00% | TRUE | TRUE |
| 16 | 33204980 - 33208179 | F - 10.00% | TRUE | TRUE |
| 16 | 33204980 - 33208179 | F - 40.00% | FALSE | TRUE |
| 20 | 43538703 - 43587799 | | TRUE | FALSE |
| 20 | 43538703 - 43587799 | F - 4.17% | TRUE | TRUE |
| 22 | 20850200 - 20941919 | | TRUE | TRUE |
| 22 | 20850200 - 20941919 | F - 8.16% | TRUE | TRUE |
| 22 | 20850200 - 20941919 | F - 2.04% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 22 | 20850200 - 20941919 | | TRUE | TRUE |
| 22 | 20850200 - 20941919 | | FALSE | TRUE |
| 1 | 151104161 - 151119140 | | TRUE | TRUE |
| 1 | 151104161 - 151119140 | | TRUE | TRUE |
| 1 | 151104161 - 151119140 | | TRUE | TRUE |
| 1 | 151104161 - 151119140 | | TRUE | TRUE |
| 1 | 151104161 - 151119140 | T - 64.29% | TRUE | TRUE |
| 1 | 151104161 - 151119140 | T - 78.57% | FALSE | TRUE |
| 1 | 151104161 - 151119140 | | FALSE | TRUE |
| 1 | 151104161 - 151119140 | | FALSE | TRUE |
| 1 | 151104161 - 151119140 | | FALSE | TRUE |
| 1 | 155183616 - 155197325 | | TRUE | FALSE |
| 1 | 155183616 - 155197325 | | TRUE | TRUE |
| 1 | 155183616 - 155197325 | | TRUE | FALSE |
| 1 | 155183616 - 155197325 | F - 18.18% | TRUE | TRUE |
| 1 | 155183616 - 155197325 | | FALSE | TRUE |
| 1 | 155183616 - 155197325 | | FALSE | TRUE |
| 10 | 98353069 - 98480279 | | TRUE | TRUE |
| 10 | 98353069 - 98480279 | | TRUE | TRUE |
| 10 | 98353069 - 98480279 | T - 60.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | | TRUE | FALSE |
| 10 | 98353069 - 98480279 | T - 50.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | T - 50.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | | TRUE | FALSE |
| 10 | 98353069 - 98480279 | | TRUE | TRUE |
| 10 | 98353069 - 98480279 | T - 50.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | T - 50.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | | TRUE | FALSE |
| 10 | 98353069 - 98480279 | T - 80.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | F - 20.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | | TRUE | TRUE |
| 10 | 98353069 - 98480279 | T - 60.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | F - 10.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | F - 20.00% | TRUE | TRUE |
| 10 | 98353069 - 98480279 | F - 10.00% | TRUE | TRUE |
| 2 | 70834750 - 70995375 | T - 85.71% | TRUE | FALSE |
| 2 | 70834750 - 70995375 | | TRUE | TRUE |
| 2 | 70834750 - 70995375 | | FALSE | TRUE |
| 2 | 70834750 - 70995375 | F - 35.71% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | | TRUE | FALSE |
| 6 | 31982539 - 32003195 | F - 3.57% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | | FALSE | TRUE |
| 6 | 31982539 - 32003195 | | TRUE | TRUE |
| 6 | 31982539 - 32003195 | | TRUE | TRUE |
| 6 | 31982539 - 32003195 | F - 3.57% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | F - 3.57% | FALSE | TRUE |
| 6 | 31982539 - 32003195 | | TRUE | TRUE |
| 6 | 31982539 - 32003195 | F - 42.86% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | | TRUE | TRUE |
| 6 | 31982539 - 32003195 | F - 3.57% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | F - 3.57% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | F - 3.57% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | T - 53.57% | TRUE | TRUE |
| 6 | 31982539 - 32003195 | | FALSE | TRUE |
| 6 | 31982539 - 32003195 | | FALSE | TRUE |
| 6 | 31982539 - 32003195 | | TRUE | TRUE |
| 6 | 31982539 - 32003195 | | FALSE | TRUE |
| 6 | 31982539 - 32003195 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 8 | 137543041 - 137997178 | F - 42.86% | TRUE | FALSE |
| 8 | 137543041 - 137997178 | F - 42.86% | TRUE | FALSE |
| 8 | 137543041 - 137997178 | | FALSE | TRUE |
| 17 | 29421945 - 29709134 | F - 33.33% | TRUE | TRUE |
| 17 | 29421945 - 29709134 | | TRUE | TRUE |
| 17 | 29421945 - 29709134 | | TRUE | TRUE |
| 17 | 29421945 - 29709134 | F - 4.17% | TRUE | TRUE |
| 17 | 29421945 - 29709134 | F - 4.17% | TRUE | TRUE |
| 17 | 29421945 - 29709134 | F - 12.50% | TRUE | FALSE |
| 17 | 29421945 - 29709134 | | TRUE | TRUE |
| 17 | 29421945 - 29709134 | | TRUE | TRUE |
| 17 | 29421945 - 29709134 | | TRUE | TRUE |
| 17 | 29421945 - 29709134 | F - 25.00% | TRUE | TRUE |
| 17 | 411908 - 618096 | | TRUE | FALSE |
| 17 | 411908 - 618096 | T - 91.67% | TRUE | TRUE |
| 17 | 411908 - 618096 | | FALSE | TRUE |
| 17 | 411908 - 618096 | T - 50.00% | TRUE | TRUE |
| 17 | 411908 - 618096 | | FALSE | TRUE |
| 3 | 158362067 - 158410364 | T - 60.00% | TRUE | TRUE |
| 3 | 158362067 - 158410364 | | TRUE | TRUE |
| 3 | 158362067 - 158410364 | | TRUE | TRUE |
| 3 | 158362067 - 158410364 | | TRUE | TRUE |
| 4 | 667369 - 675822 | F - 8.33% | TRUE | FALSE |
| 4 | 667369 - 675822 | F - 16.67% | TRUE | FALSE |
| 4 | 667369 - 675822 | T - 50.00% | TRUE | TRUE |
| 4 | 667369 - 675822 | F - 33.33% | TRUE | TRUE |
| 4 | 667369 - 675822 | F - 33.33% | FALSE | TRUE |
| 4 | 667369 - 675822 | F - 8.33% | TRUE | TRUE |
| 4 | 667369 - 675822 | | TRUE | TRUE |
| 4 | 667369 - 675822 | T - 83.33% | FALSE | TRUE |
| 5 | 10441636 - 10472141 | | TRUE | FALSE |
| 5 | 10441636 - 10472141 | T - 62.50% | FALSE | TRUE |
| 5 | 10441636 - 10472141 | | FALSE | TRUE |
| 5 | 74807581 - 74896969 | F - 26.67% | TRUE | FALSE |
| 5 | 74807581 - 74896969 | | TRUE | FALSE |
| 5 | 74807581 - 74896969 | | TRUE | TRUE |
| 5 | 74807581 - 74896969 | F - 3.33% | TRUE | TRUE |
| 5 | 74807581 - 74896969 | | TRUE | TRUE |
| 6 | 75794042 - 75915767 | | TRUE | TRUE |
| 6 | 75794042 - 75915767 | F - 5.88% | TRUE | TRUE |
| 6 | 75794042 - 75915767 | F - 5.88% | TRUE | TRUE |
| 6 | 75794042 - 75915767 | | TRUE | TRUE |
| 6 | 75794042 - 75915767 | F - 5.88% | TRUE | TRUE |
| 10 | 101542463 - 101611949 | | TRUE | FALSE |
| 10 | 101542463 - 101611949 | | TRUE | TRUE |
| 10 | 101542463 - 101611949 | | FALSE | TRUE |
| 10 | 101542463 - 101611949 | T - 60.00% | TRUE | TRUE |
| 10 | 101542463 - 101611949 | | FALSE | TRUE |
| 10 | 118615739 - 118886097 | | TRUE | FALSE |
| 10 | 118615739 - 118886097 | | TRUE | TRUE |
| 10 | 118615739 - 118886097 | F - 6.67% | TRUE | TRUE |
| 10 | 118615739 - 118886097 | | TRUE | TRUE |
| 10 | 118615739 - 118886097 | T - 80.00% | TRUE | TRUE |
| 10 | 118615739 - 118886097 | | TRUE | TRUE |
| 11 | 24518516 - 25104186 | | TRUE | FALSE |
| 11 | 24518516 - 25104186 | | TRUE | FALSE |
| 11 | 24518516 - 25104186 | | TRUE | TRUE |
| 11 | 24518516 - 25104186 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 11 | 24518516 - 25104186 | T - 85.71% | TRUE | FALSE |
| 11 | 24518516 - 25104186 | | TRUE | TRUE |
| 11 | 24518516 - 25104186 | T - 57.14% | TRUE | TRUE |
| 11 | 24518516 - 25104186 | T - 100.00% | TRUE | TRUE |
| 11 | 24518516 - 25104186 | T - 85.71% | TRUE | TRUE |
| 14 | 45366498 - 45376460 | | TRUE | TRUE |
| 14 | 45366498 - 45376460 | T - 100.00% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | T - 93.33% | FALSE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | FALSE | TRUE |
| 19 | 13317256 - 13617274 | T - 73.33% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | T - 93.33% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | T - 93.33% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | FALSE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | T - 80.00% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | T - 80.00% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | FALSE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | T - 80.00% | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | FALSE | TRUE |
| 19 | 13317256 - 13617274 | | FALSE | TRUE |
| 19 | 13317256 - 13617274 | | TRUE | TRUE |
| 19 | 13317256 - 13617274 | | FALSE | TRUE |
| 21 | 40177231 - 40196879 | F - 22.22% | TRUE | TRUE |
| 21 | 40177231 - 40196879 | | FALSE | TRUE |
| 21 | 40177231 - 40196879 | | TRUE | TRUE |
| 21 | 40177231 - 40196879 | | FALSE | TRUE |
| 21 | 40177231 - 40196879 | F - 11.11% | TRUE | TRUE |
| 5 | 145826873 - 145891524 | F - 11.11% | TRUE | TRUE |
| 5 | 145826873 - 145891524 | | TRUE | TRUE |
| 5 | 40711678 - 40756077 | | TRUE | TRUE |
| 5 | 40711678 - 40756077 | T - 60.00% | TRUE | TRUE |
| 5 | 40711678 - 40756077 | | TRUE | TRUE |
| 7 | 47834889 - 47872414 | F - 16.67% | TRUE | TRUE |
| 7 | 47834889 - 47872414 | T - 83.33% | TRUE | TRUE |
| 7 | 47834889 - 47872414 | | TRUE | TRUE |
| 8 | 38964509 - 39142436 | | TRUE | TRUE |
| 8 | 38964509 - 39142436 | T - 59.09% | TRUE | TRUE |
| 8 | 38964509 - 39142436 | | TRUE | FALSE |
| 8 | 38964509 - 39142436 | | TRUE | FALSE |
| 8 | 38964509 - 39142436 | | TRUE | FALSE |
| 8 | 38964509 - 39142436 | T - 72.73% | TRUE | TRUE |
| 8 | 38964509 - 39142436 | | FALSE | TRUE |
| 8 | 38964509 - 39142436 | | FALSE | TRUE |
| 8 | 38964509 - 39142436 | | TRUE | TRUE |
| 8 | 38964509 - 39142436 | | TRUE | TRUE |
| 10 | 88730498 - 88769960 | F - 25.00% | TRUE | TRUE |
| 10 | 88730498 - 88769960 | T - 50.00% | TRUE | TRUE |
| 10 | 88730498 - 88769960 | F - 25.00% | TRUE | TRUE |
| 10 | 88730498 - 88769960 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 88730498 - 88769960 | T - 100.00% | TRUE | TRUE |
| 10 | 88730498 - 88769960 | | TRUE | TRUE |
| 10 | 88730498 - 88769960 | | TRUE | TRUE |
| 10 | 88730498 - 88769960 | | TRUE | TRUE |
| 10 | 88730498 - 88769960 | T - 75.00% | TRUE | TRUE |
| 10 | 88730498 - 88769960 | T - 100.00% | TRUE | TRUE |
| 10 | 88730498 - 88769960 | T - 100.00% | FALSE | TRUE |
| 10 | 88730498 - 88769960 | | TRUE | TRUE |
| 10 | 88730498 - 88769960 | | FALSE | TRUE |
| 10 | 88730498 - 88769960 | T - 100.00% | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 12 | 104606488 - 104744062 | F - 3.57% | TRUE | FALSE |
| 12 | 104606488 - 104744062 | F - 10.71% | TRUE | TRUE |
| 12 | 104606488 - 104744062 | F - 17.86% | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 12 | 104606488 - 104744062 | | TRUE | TRUE |
| 15 | 30297646 - 30338051 | T - 100.00% | TRUE | TRUE |
| 15 | 30297646 - 30338051 | T - 100.00% | TRUE | TRUE |
| 15 | 30297646 - 30338051 | | TRUE | TRUE |
| 22 | 46449585 - 46501903 | | TRUE | TRUE |
| 22 | 46449585 - 46501903 | F - 33.33% | TRUE | TRUE |
| 22 | 46449585 - 46501903 | F - 16.67% | TRUE | TRUE |
| 22 | 46449585 - 46501903 | F - 33.33% | TRUE | TRUE |
| 22 | 46449585 - 46501903 | T - 66.67% | TRUE | TRUE |
| 3 | 122628040 - 122747452 | | TRUE | FALSE |
| 3 | 122628040 - 122747452 | T - 70.83% | FALSE | TRUE |
| 3 | 122628040 - 122747452 | | FALSE | TRUE |
| 1 | 155204239 - 155214653 | | TRUE | TRUE |
| 1 | 155204239 - 155214653 | | TRUE | FALSE |
| 1 | 155204239 - 155214653 | | TRUE | TRUE |
| 1 | 155204239 - 155214653 | F - 3.85% | TRUE | TRUE |
| 1 | 155204239 - 155214653 | F - 46.15% | TRUE | TRUE |
| 1 | 155204239 - 155214653 | | FALSE | TRUE |
| 2 | 68694691 - 68858004 | | TRUE | FALSE |
| 2 | 68694691 - 68858004 | | TRUE | TRUE |
| 2 | 68694691 - 68858004 | | TRUE | TRUE |
| 2 | 68694691 - 68858004 | F - 22.22% | TRUE | FALSE |
| 3 | 3742498 - 4508966 | | TRUE | TRUE |
| 3 | 3742498 - 4508966 | F - 5.56% | TRUE | FALSE |
| 3 | 3742498 - 4508966 | F - 16.67% | TRUE | TRUE |
| 3 | 3742498 - 4508966 | F - 5.56% | FALSE | TRUE |
| 3 | 3742498 - 4508966 | | TRUE | TRUE |
| 3 | 3742498 - 4508966 | T - 83.33% | TRUE | TRUE |
| 3 | 3742498 - 4508966 | F - 5.56% | TRUE | TRUE |
| 3 | 3742498 - 4508966 | | FALSE | TRUE |
| 6 | 71276620 - 71299272 | T - 100.00% | TRUE | TRUE |
| 6 | 71276620 - 71299272 | | TRUE | TRUE |
| 6 | 31949801 - 31970458 | | TRUE | FALSE |
| 6 | 31949801 - 31970458 | F - 3.57% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | | FALSE | TRUE |
| 6 | 31949801 - 31970458 | | TRUE | TRUE |
| 6 | 31949801 - 31970458 | | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 3.57% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 3.57% | FALSE | TRUE |
| 6 | 31949801 - 31970458 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 6 | 31949801 - 31970458 | F - 39.29% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 35.71% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 3.57% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 3.57% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 3.57% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | F - 3.57% | TRUE | TRUE |
| 6 | 31949801 - 31970458 | | FALSE | TRUE |
| 6 | 31949801 - 31970458 | | FALSE | TRUE |
| 6 | 31949801 - 31970458 | | TRUE | TRUE |
| 6 | 31949801 - 31970458 | | FALSE | TRUE |
| 6 | 31949801 - 31970458 | | FALSE | TRUE |
| 7 | 99933688 - 99965454 | T - 50.00% | TRUE | TRUE |
| 7 | 99933688 - 99965454 | | TRUE | TRUE |
| 7 | 99933688 - 99965454 | | FALSE | TRUE |
| 10 | 126085872 - 126107545 | | TRUE | TRUE |
| 10 | 126085872 - 126107545 | F - 8.33% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 9.52% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 4.76% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 4.76% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 4.76% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 9.52% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 4.76% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 4.76% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | F - 9.52% | TRUE | TRUE |
| 3 | 49158547 - 49170599 | | TRUE | TRUE |
| 6 | 151977826 - 152450754 | | TRUE | TRUE |
| 6 | 151977826 - 152450754 | | TRUE | TRUE |
| 6 | 151977826 - 152450754 | | TRUE | TRUE |
| 6 | 151977826 - 152450754 | F - 2.63% | TRUE | TRUE |
| 6 | 151977826 - 152450754 | T - 65.79% | TRUE | TRUE |
| 6 | 151977826 - 152450754 | | TRUE | TRUE |
| 6 | 151977826 - 152450754 | | FALSE | TRUE |
| 6 | 151977826 - 152450754 | | FALSE | TRUE |
| 6 | 32808494 - 32812712 | T - 88.89% | TRUE | TRUE |
| 6 | 32808494 - 32812712 | | TRUE | TRUE |
| 6 | 32808494 - 32812712 | T - 88.89% | FALSE | TRUE |
| 11 | 118894824 - 118901616 | | TRUE | FALSE |
| 11 | 118894824 - 118901616 | F - 4.76% | TRUE | TRUE |
| 11 | 118894824 - 118901616 | F - 33.33% | TRUE | TRUE |
| 11 | 118894824 - 118901616 | | TRUE | TRUE |
| 11 | 118894824 - 118901616 | | FALSE | TRUE |
| 15 | 67835021 - 68116181 | | TRUE | FALSE |
| 15 | 67835021 - 68116181 | T - 80.00% | TRUE | TRUE |
| 15 | 67835021 - 68116181 | F - 6.67% | TRUE | TRUE |
| 15 | 67835021 - 68116181 | T - 73.33% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 4.35% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 8.70% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 8.70% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 30.43% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 21.74% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 13.04% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 4.35% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 26.09% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | F - 13.04% | FALSE | TRUE |
| 21 | 45719925 - 45747261 | F - 13.04% | FALSE | TRUE |
| 21 | 45719925 - 45747261 | F - 8.70% | TRUE | TRUE |
| 21 | 45719925 - 45747261 | | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 6_apd_hap1 | 4095498 - 4099716 | T - 88.89% | TRUE | TRUE |
| 6_apd_hap1 | 4095498 - 4099716 | | TRUE | TRUE |
| 6_apd_hap1 | 4095498 - 4099716 | T - 88.89% | FALSE | TRUE |
| 6_cox_hap2 | 4253021 - 4257240 | T - 88.89% | TRUE | TRUE |
| 6_cox_hap2 | 4253021 - 4257240 | | TRUE | TRUE |
| 6_cox_hap2 | 4253021 - 4257240 | T - 88.89% | FALSE | TRUE |
| 6_dbb_hap3 | 4089872 - 4094090 | T - 90.91% | TRUE | TRUE |
| 6_dbb_hap3 | 4089872 - 4094090 | | TRUE | TRUE |
| 6_dbb_hap3 | 4089872 - 4094090 | T - 90.91% | FALSE | TRUE |
| 6_mann_hap4 | 4265690 - 4269908 | T - 88.89% | TRUE | TRUE |
| 6_mann_hap4 | 4265690 - 4269908 | | TRUE | TRUE |
| 6_mann_hap4 | 4265690 - 4269908 | T - 88.89% | FALSE | TRUE |
| 6_mcf_hap5 | 4145371 - 4149579 | T - 88.89% | TRUE | TRUE |
| 6_mcf_hap5 | 4145371 - 4149579 | | TRUE | TRUE |
| 6_mcf_hap5 | 4145371 - 4149579 | T - 88.89% | FALSE | TRUE |
| 6_qbl_hap6 | 4040601 - 4044819 | T - 88.89% | TRUE | TRUE |
| 6_qbl_hap6 | 4040601 - 4044819 | | TRUE | TRUE |
| 6_qbl_hap6 | 4040601 - 4044819 | T - 88.89% | FALSE | TRUE |
| 3 | 39850405 - 40301812 | | TRUE | TRUE |
| 3 | 39850405 - 40301812 | | TRUE | TRUE |
| 3 | 39850405 - 40301812 | T - 86.67% | TRUE | TRUE |
| 3 | 39850405 - 40301812 | | TRUE | TRUE |
| 3 | 39850405 - 40301812 | F - 20.00% | FALSE | TRUE |
| 3 | 39850405 - 40301812 | F - 6.67% | FALSE | TRUE |
| 3 | 39850405 - 40301812 | F - 6.67% | FALSE | TRUE |
| 3 | 39850405 - 40301812 | T - 60.00% | FALSE | TRUE |
| 3 | 39850405 - 40301812 | F - 20.00% | TRUE | TRUE |
| 3 | 39850405 - 40301812 | T - 86.67% | TRUE | TRUE |
| 3 | 39850405 - 40301812 | | TRUE | TRUE |
| 3 | 39850405 - 40301812 | T - 86.67% | TRUE | TRUE |
| 3 | 39850405 - 40301812 | | FALSE | TRUE |
| 3 | 39850405 - 40301812 | | TRUE | TRUE |
| 3 | 39850405 - 40301812 | | FALSE | TRUE |
| 10 | 122216466 - 122349367 | | TRUE | FALSE |
| 10 | 122216466 - 122349367 | | TRUE | FALSE |
| 10 | 122216466 - 122349367 | T - 75.00% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | T - 66.67% | TRUE | FALSE |
| 10 | 122216466 - 122349367 | T - 75.00% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | T - 50.00% | TRUE | FALSE |
| 10 | 122216466 - 122349367 | | TRUE | FALSE |
| 10 | 122216466 - 122349367 | | TRUE | TRUE |
| 10 | 122216466 - 122349367 | F - 16.67% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | F - 16.67% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | | TRUE | FALSE |
| 10 | 122216466 - 122349367 | F - 8.33% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | | TRUE | TRUE |
| 10 | 122216466 - 122349367 | F - 41.67% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | | TRUE | TRUE |
| 10 | 122216466 - 122349367 | | TRUE | TRUE |
| 10 | 122216466 - 122349367 | T - 66.67% | TRUE | TRUE |
| 10 | 122216466 - 122349367 | F - 8.33% | TRUE | TRUE |
| 20 | 20370196 - 20693266 | | TRUE | FALSE |
| 20 | 20370196 - 20693266 | | TRUE | TRUE |
| 20 | 20370196 - 20693266 | F - 7.69% | TRUE | TRUE |
| 20 | 20370196 - 20693266 | | TRUE | TRUE |
| 20 | 20370196 - 20693266 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 41.18% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 41.18% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 35.29% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | FALSE |
| 22 | 43192508 - 43411184 | F - 38.24% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 26.47% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 32.35% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 32.35% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 23.53% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 41.18% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 44.12% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 38.24% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 2.94% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 38.24% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | F - 32.35% | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | TRUE | TRUE |
| 22 | 43192508 - 43411184 | | FALSE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 45.16% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | T - 64.52% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | FALSE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 41.94% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 6.45% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | T - 61.29% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 6.45% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | F - 3.23% | TRUE | TRUE |
| 6_dbb_hap3 | 2142855 - 2162051 | T - 70.97% | FALSE | TRUE |
| 1 | 111956936 - 111970399 | F - 45.45% | TRUE | FALSE |
| 1 | 111956936 - 111970399 | | TRUE | FALSE |
| 1 | 111956936 - 111970399 | | TRUE | TRUE |
| 2 | 139259350 - 139331818 | | TRUE | TRUE |
| 2 | 139259350 - 139331818 | F - 12.50% | TRUE | TRUE |
| 2 | 179296141 - 179316239 | | TRUE | FALSE |
| 2 | 179296141 - 179316239 | F - 22.22% | TRUE | TRUE |
| 3 | 46899357 - 46923659 | | TRUE | TRUE |
| 3 | 46899357 - 46923659 | T - 80.00% | TRUE | TRUE |
| 3 | 46899357 - 46923659 | | TRUE | TRUE |
| 3 | 46899357 - 46923659 | T - 80.00% | TRUE | TRUE |
| 3 | 46899357 - 46923659 | | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 3 | 46899357 - 46923659 | F - 40.00% | TRUE | TRUE |
| 3 | 46899357 - 46923659 | | TRUE | TRUE |
| 10 | 5991038 - 6020150 | | TRUE | TRUE |
| 10 | 5991038 - 6020150 | | TRUE | TRUE |
| 10 | 5991038 - 6020150 | | TRUE | TRUE |
| 10 | 5991038 - 6020150 | F - 3.70% | TRUE | TRUE |
| 10 | 5991038 - 6020150 | T - 74.07% | FALSE | TRUE |
| 16 | 693262 - 818865 | | TRUE | TRUE |
| 16 | 693262 - 818865 | | TRUE | TRUE |
| 16 | 693262 - 818865 | | TRUE | TRUE |
| 16 | 693262 - 818865 | F - 10.00% | TRUE | TRUE |
| 16 | 693262 - 818865 | | TRUE | TRUE |
| 16 | 693262 - 818865 | | TRUE | TRUE |
| 16 | 693262 - 818865 | T - 90.00% | TRUE | TRUE |
| 16 | 693262 - 818865 | F - 10.00% | TRUE | TRUE |
| 16 | 693262 - 818865 | | TRUE | TRUE |
| 16 | 693262 - 818865 | T - 90.00% | TRUE | TRUE |
| 16 | 693262 - 818865 | | FALSE | TRUE |
| 16 | 693262 - 818865 | | FALSE | TRUE |
| 16 | 693262 - 818865 | T - 100.00% | TRUE | TRUE |
| 16 | 693262 - 818865 | | FALSE | TRUE |
| 20 | 36531499 - 36573752 | | TRUE | FALSE |
| 20 | 36531499 - 36573752 | T - 100.00% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | FALSE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | F - 17.65% | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 29.41% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 11.76% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | F - 29.41% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 23.53% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 17.65% | FALSE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 17.65% | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 23.53% | FALSE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | F - 29.41% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | F - 11.76% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | F - 11.76% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | F - 29.41% | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | TRUE | TRUE |
| 20 | 60883011 - 60942368 | | FALSE | TRUE |
| 22 | 50713408 - 50746056 | F - 15.79% | TRUE | TRUE |
| 22 | 50713408 - 50746056 | F - 10.53% | TRUE | TRUE |
| 22 | 50713408 - 50746056 | F - 5.26% | TRUE | TRUE |
| 22 | 50713408 - 50746056 | | TRUE | TRUE |
| 22 | 50713408 - 50746056 | | TRUE | TRUE |
| 22 | 50713408 - 50746056 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 106685094 - 106802256 | | TRUE | TRUE |
| 7 | 106685094 - 106802256 | F - 14.29% | TRUE | TRUE |
| 7 | 106685094 - 106802256 | T - 71.43% | TRUE | TRUE |
| 7 | 106685094 - 106802256 | | FALSE | TRUE |
| 7 | 106685094 - 106802256 | T - 85.71% | FALSE | TRUE |
| 9 | 118916071 - 119164601 | | TRUE | TRUE |
| 9 | 118916071 - 119164601 | F - 11.11% | TRUE | TRUE |
| 9 | 95607874 - 95640304 | F - 11.11% | TRUE | TRUE |
| 9 | 95607874 - 95640304 | | FALSE | TRUE |
| 12 | 112123857 - 112194911 | | TRUE | TRUE |
| 12 | 112123857 - 112194911 | F - 10.34% | TRUE | FALSE |
| 12 | 112123857 - 112194911 | F - 41.38% | FALSE | TRUE |
| 12 | 112123857 - 112194911 | F - 10.34% | FALSE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | FALSE |
| 13 | 46916137 - 47012325 | | TRUE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | FALSE |
| 13 | 46916137 - 47012325 | F - 8.00% | TRUE | FALSE |
| 13 | 46916137 - 47012325 | F - 4.00% | TRUE | TRUE |
| 13 | 46916137 - 47012325 | F - 4.00% | TRUE | TRUE |
| 13 | 46916137 - 47012325 | F - 8.00% | TRUE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | TRUE |
| 13 | 46916137 - 47012325 | F - 8.00% | TRUE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | TRUE |
| 13 | 46916137 - 47012325 | F - 16.00% | FALSE | TRUE |
| 13 | 46916137 - 47012325 | | TRUE | TRUE |
| 13 | 46916137 - 47012325 | | FALSE | TRUE |
| 19 | 36500022 - 36505145 | | TRUE | FALSE |
| 19 | 36500022 - 36505145 | | TRUE | TRUE |
| 19 | 36500022 - 36505145 | | TRUE | TRUE |
| 19 | 36500022 - 36505145 | | TRUE | TRUE |
| 19 | 36500022 - 36505145 | F - 29.17% | TRUE | FALSE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | T - 66.67% | TRUE | TRUE |
| 1 | 227084589 - 227175246 | F - 3.70% | TRUE | TRUE |
| 1 | 227084589 - 227175246 | F - 3.70% | TRUE | FALSE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | F - 11.11% | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | F - 3.70% | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | F - 14.81% | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | TRUE | TRUE |
| 1 | 227084589 - 227175246 | | FALSE | TRUE |
| 3 | 53528683 - 53846492 | | TRUE | FALSE |
| 3 | 53528683 - 53846492 | | TRUE | FALSE |
| 3 | 53528683 - 53846492 | | TRUE | TRUE |
| 3 | 53528683 - 53846492 | | TRUE | TRUE |
| 3 | 53528683 - 53846492 | | TRUE | TRUE |
| 3 | 53528683 - 53846492 | | TRUE | TRUE |
| 3 | 53528683 - 53846492 | | TRUE | FALSE |
| 3 | 53528683 - 53846492 | T - 60.00% | TRUE | FALSE |
| 3 | 53528683 - 53846492 | T - 60.00% | TRUE | FALSE |
| 3 | 53528683 - 53846492 | | TRUE | TRUE |
| 3 | 53528683 - 53846492 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 53528683 - 53846492 | | FALSE | TRUE |
| 3 | 129366635 - 129612419 | | TRUE | FALSE |
| 3 | 129366635 - 129612419 | F - 10.53% | TRUE | TRUE |
| 3 | 129366635 - 129612419 | | TRUE | FALSE |
| 3 | 129366635 - 129612419 | F - 5.26% | TRUE | TRUE |
| 3 | 129366635 - 129612419 | | FALSE | TRUE |
| 3 | 129366635 - 129612419 | | TRUE | TRUE |
| 5 | 1456595 - 1524092 | | TRUE | TRUE |
| 5 | 1456595 - 1524092 | T - 50.00% | TRUE | TRUE |
| 5 | 1456595 - 1524092 | | TRUE | TRUE |
| 5 | 1456595 - 1524092 | | TRUE | TRUE |
| 5 | 1456595 - 1524092 | F - 25.00% | TRUE | TRUE |
| 5 | 1456595 - 1524092 | F - 37.50% | FALSE | TRUE |
| 5 | 1456595 - 1524092 | F - 12.50% | TRUE | TRUE |
| 5 | 1456595 - 1524092 | F - 12.50% | TRUE | TRUE |
| 5 | 1456595 - 1524092 | | TRUE | TRUE |
| 5 | 1456595 - 1524092 | F - 37.50% | TRUE | TRUE |
| 5 | 1456595 - 1524092 | F - 12.50% | TRUE | TRUE |
| 5 | 1456595 - 1524092 | | TRUE | TRUE |
| 7 | 102815462 - 102920913 | | TRUE | FALSE |
| 7 | 102815462 - 102920913 | | TRUE | FALSE |
| 7 | 102815462 - 102920913 | | TRUE | TRUE |
| 7 | 102815462 - 102920913 | | TRUE | FALSE |
| 7 | 102815462 - 102920913 | T - 57.14% | TRUE | TRUE |
| 7 | 102815462 - 102920913 | | FALSE | TRUE |
| 7 | 102815462 - 102920913 | T - 71.43% | TRUE | TRUE |
| 7 | 102815462 - 102920913 | | FALSE | TRUE |
| 9 | 100000708 - 100139577 | | TRUE | TRUE |
| 9 | 100000708 - 100139577 | F - 42.86% | TRUE | TRUE |
| 9 | 100000708 - 100139577 | | TRUE | TRUE |
| 9 | 100000708 - 100139577 | T - 57.14% | TRUE | TRUE |
| 9 | 100000708 - 100139577 | | TRUE | TRUE |
| 9 | 100000708 - 100139577 | | TRUE | TRUE |
| 9 | 100000708 - 100139577 | | FALSE | TRUE |
| 9 | 100000708 - 100139577 | | TRUE | TRUE |
| 9 | 100831557 - 100881494 | | TRUE | FALSE |
| 9 | 100831557 - 100881494 | | TRUE | TRUE |
| 9 | 100831557 - 100881494 | F - 20.00% | TRUE | TRUE |
| 9 | 100831557 - 100881494 | F - 40.00% | TRUE | TRUE |
| 9 | 100831557 - 100881494 | T - 60.00% | TRUE | TRUE |
| 9 | 100831557 - 100881494 | | TRUE | TRUE |
| 9 | 100831557 - 100881494 | | FALSE | TRUE |
| Y | 2803112 - 2850547 | | TRUE | FALSE |
| Y | 2803112 - 2850547 | | FALSE | TRUE |
| Y | 2803112 - 2850547 | F - 23.08% | TRUE | TRUE |
| Y | 2803112 - 2850547 | F - 30.77% | TRUE | TRUE |
| Y | 2803112 - 2850547 | | TRUE | TRUE |
| Y | 2803112 - 2850547 | T - 84.62% | TRUE | TRUE |
| Y | 2803112 - 2850547 | T - 76.92% | TRUE | TRUE |
| Y | 2803112 - 2850547 | | TRUE | TRUE |
| Y | 2803112 - 2850547 | | TRUE | TRUE |
| Y | 2803112 - 2850547 | | TRUE | TRUE |
| Y | 2803112 - 2850547 | | TRUE | TRUE |
| 12 | 40148823 - 40499891 | | TRUE | TRUE |
| 12 | 40148823 - 40499891 | F - 12.50% | TRUE | TRUE |
| 12 | 40148823 - 40499891 | | TRUE | TRUE |
| 14 | 88304164 - 88460009 | | TRUE | TRUE |
| 14 | 88304164 - 88460009 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 14 | 88304164 - 88460009 | | TRUE | TRUE |
| 14 | 88304164 - 88460009 | F - 7.14% | FALSE | TRUE |
| 14 | 88304164 - 88460009 | | TRUE | TRUE |
| 17 | 4636828 - 4643223 | T - 50.00% | TRUE | TRUE |
| 17 | 4636828 - 4643223 | | TRUE | TRUE |
| 17 | 4636828 - 4643223 | T - 100.00% | FALSE | TRUE |
| 17 | 4636828 - 4643223 | T - 75.00% | TRUE | TRUE |
| 17 | 4636828 - 4643223 | | TRUE | TRUE |
| 17 | 4636828 - 4643223 | T - 100.00% | TRUE | TRUE |
| 1 | 53361582 - 53392851 | | TRUE | FALSE |
| 1 | 53361582 - 53392851 | | TRUE | FALSE |
| 1 | 53361582 - 53392851 | | TRUE | TRUE |
| 1 | 53361582 - 53392851 | F - 17.14% | FALSE | TRUE |
| 2 | 231032009 - 231090444 | F - 8.70% | TRUE | TRUE |
| 2 | 231032009 - 231090444 | | TRUE | TRUE |
| 4 | 169784921 - 169931468 | | TRUE | TRUE |
| 4 | 169784921 - 169931468 | F - 8.33% | TRUE | TRUE |
| 4 | 169784921 - 169931468 | | TRUE | TRUE |
| 4 | 169784921 - 169931468 | T - 83.33% | TRUE | TRUE |
| 7 | 99690351 - 99699563 | F - 11.11% | TRUE | TRUE |
| 7 | 99690351 - 99699563 | F - 27.78% | TRUE | TRUE |
| 7 | 99690351 - 99699563 | | TRUE | TRUE |
| 7 | 99690351 - 99699563 | | TRUE | TRUE |
| 7 | 99690351 - 99699563 | | TRUE | TRUE |
| 14 | 69254372 - 69262960 | F - 12.50% | TRUE | TRUE |
| 14 | 69254372 - 69262960 | | TRUE | TRUE |
| 14 | 69254372 - 69262960 | F - 12.50% | TRUE | TRUE |
| 14 | 69254372 - 69262960 | | TRUE | TRUE |
| 14 | 69254372 - 69262960 | F - 37.50% | TRUE | TRUE |
| 14 | 69254372 - 69262960 | | TRUE | TRUE |
| 14 | 69254372 - 69262960 | T - 50.00% | TRUE | TRUE |
| 14 | 69254372 - 69262960 | | TRUE | TRUE |
| 17 | 9548580 - 9633003 | | TRUE | FALSE |
| 17 | 9548580 - 9633003 | | TRUE | FALSE |
| 17 | 9548580 - 9633003 | T - 77.78% | TRUE | TRUE |
| 1 | 28052490 - 28089633 | | TRUE | FALSE |
| 1 | 28052490 - 28089633 | F - 13.33% | TRUE | TRUE |
| X | 74588262 - 74743337 | | TRUE | TRUE |
| X | 74588262 - 74743337 | | TRUE | FALSE |
| X | 74588262 - 74743337 | T - 66.67% | TRUE | TRUE |
| 15 | 49115932 - 49255641 | F - 42.86% | TRUE | TRUE |
| 15 | 49115932 - 49255641 | T - 71.43% | TRUE | TRUE |
| 15 | 49115932 - 49255641 | | TRUE | TRUE |
| 2 | 67350489 - 67442451 | | TRUE | FALSE |
| 2 | 67350489 - 67442451 | T - 66.67% | TRUE | TRUE |
| 3 | 52529354 - 52558511 | | TRUE | FALSE |
| 3 | 52529354 - 52558511 | | TRUE | FALSE |
| 3 | 52529354 - 52558511 | | TRUE | TRUE |
| 3 | 52529354 - 52558511 | F - 28.57% | TRUE | TRUE |
| 3 | 52529354 - 52558511 | F - 21.43% | TRUE | FALSE |
| 3 | 8792094 - 8811314 | F - 33.33% | TRUE | TRUE |
| 3 | 8792094 - 8811314 | T - 50.00% | TRUE | TRUE |
| 3 | 8792094 - 8811314 | F - 16.67% | TRUE | TRUE |
| 3 | 8792094 - 8811314 | | TRUE | TRUE |
| 5 | 141971743 - 142077635 | | TRUE | TRUE |
| 5 | 141971743 - 142077635 | | TRUE | TRUE |
| 5 | 141971743 - 142077635 | F - 4.76% | TRUE | TRUE |
| 5 | 141971743 - 142077635 | F - 4.76% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 141971743 - 142077635 | F - 9.52% | TRUE | TRUE |
| 5 | 141971743 - 142077635 | F - 9.52% | TRUE | TRUE |
| 5 | 141971743 - 142077635 | F - 4.76% | TRUE | TRUE |
| 5 | 141971743 - 142077635 | | FALSE | TRUE |
| 6 | 79644136 - 79788011 | | TRUE | TRUE |
| 6 | 79644136 - 79788011 | | TRUE | FALSE |
| 6 | 79644136 - 79788011 | T - 100.00% | TRUE | TRUE |
| 6 | 79644136 - 79788011 | | TRUE | TRUE |
| 6 | 79644136 - 79788011 | | TRUE | TRUE |
| 6 | 79644136 - 79788011 | | TRUE | FALSE |
| 6 | 79644136 - 79788011 | F - 25.00% | TRUE | TRUE |
| 6 | 79644136 - 79788011 | T - 50.00% | TRUE | TRUE |
| 6 | 79644136 - 79788011 | T - 50.00% | TRUE | TRUE |
| 6 | 79644136 - 79788011 | | FALSE | TRUE |
| 6 | 79644136 - 79788011 | | TRUE | TRUE |
| 12 | 7096260 - 7178336 | | TRUE | FALSE |
| 12 | 7096260 - 7178336 | | TRUE | TRUE |
| 12 | 7096260 - 7178336 | F - 4.17% | TRUE | TRUE |
| 12 | 46312914 - 46385903 | | TRUE | FALSE |
| 12 | 46312914 - 46385903 | | TRUE | FALSE |
| 12 | 46312914 - 46385903 | | TRUE | TRUE |
| 12 | 46312914 - 46385903 | | TRUE | TRUE |
| 12 | 46312914 - 46385903 | | TRUE | TRUE |
| 12 | 46312914 - 46385903 | F - 12.50% | TRUE | TRUE |
| 12 | 46312914 - 46385903 | | TRUE | TRUE |
| 2 | 10262455 - 10271546 | F - 20.00% | TRUE | TRUE |
| 2 | 10262455 - 10271546 | T - 73.33% | TRUE | TRUE |
| 2 | 10262455 - 10271546 | | TRUE | TRUE |
| 2 | 10262455 - 10271546 | F - 6.67% | TRUE | TRUE |
| 2 | 10262455 - 10271546 | | FALSE | TRUE |
| 2 | 10262455 - 10271546 | | FALSE | TRUE |
| 2 | 172543919 - 172604930 | | TRUE | FALSE |
| 2 | 172543919 - 172604930 | F - 5.00% | TRUE | TRUE |
| 2 | 136664247 - 136743670 | F - 6.25% | TRUE | TRUE |
| 2 | 136664247 - 136743670 | T - 56.25% | TRUE | TRUE |
| 2 | 136664247 - 136743670 | | FALSE | TRUE |
| 2 | 136664247 - 136743670 | F - 18.75% | TRUE | TRUE |
| 2 | 136664247 - 136743670 | F - 6.25% | TRUE | TRUE |
| 6 | 158402888 - 158520208 | F - 27.78% | TRUE | FALSE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | F - 5.56% | TRUE | TRUE |
| 6 | 158402888 - 158520208 | T - 55.56% | TRUE | TRUE |
| 6 | 158402888 - 158520208 | F - 11.11% | TRUE | TRUE |
| 6 | 158402888 - 158520208 | T - 55.56% | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 6 | 158402888 - 158520208 | | TRUE | TRUE |
| 7 | 139476850 - 139720125 | | TRUE | TRUE |
| 7 | 139476850 - 139720125 | | TRUE | FALSE |
| 7 | 139476850 - 139720125 | | TRUE | TRUE |
| 7 | 139476850 - 139720125 | F - 3.03% | TRUE | TRUE |
| 7 | 139476850 - 139720125 | | FALSE | TRUE |
| 7 | 139476850 - 139720125 | T - 72.73% | FALSE | TRUE |
| 7 | 139476850 - 139720125 | | FALSE | TRUE |
| 10 | 122610687 - 122669038 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 10 | 122610687 - 122669038 | F - 9.09% | TRUE | TRUE |
| 11 | 58294344 - 58345693 | | TRUE | TRUE |
| 11 | 58294344 - 58345693 | F - 25.00% | TRUE | TRUE |
| 11 | 58294344 - 58345693 | F - 37.50% | TRUE | TRUE |
| 11 | 58294344 - 58345693 | F - 12.50% | TRUE | TRUE |
| 11 | 58294344 - 58345693 | | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 5.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 5.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | | TRUE | TRUE |
| 13 | 113344643 - 113541482 | | FALSE | TRUE |
| 13 | 113344643 - 113541482 | F - 5.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 40.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 5.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 20.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 40.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 15.00% | TRUE | TRUE |
| 13 | 113344643 - 113541482 | | TRUE | TRUE |
| 13 | 113344643 - 113541482 | | TRUE | TRUE |
| 13 | 113344643 - 113541482 | F - 5.00% | TRUE | TRUE |
| 14 | 103589779 - 103603776 | F - 30.00% | TRUE | TRUE |
| 14 | 103589779 - 103603776 | F - 10.00% | TRUE | TRUE |
| 14 | 103589779 - 103603776 | F - 10.00% | FALSE | TRUE |
| 14 | 103589779 - 103603776 | T - 50.00% | FALSE | TRUE |
| 14 | 103589779 - 103603776 | F - 40.00% | TRUE | TRUE |
| 14 | 103589779 - 103603776 | | TRUE | TRUE |
| 14 | 103589779 - 103603776 | | TRUE | TRUE |
| 14 | 103589779 - 103603776 | F - 30.00% | TRUE | TRUE |
| 14 | 103589779 - 103603776 | | TRUE | TRUE |
| 14 | 103589779 - 103603776 | | TRUE | TRUE |
| 14 | 103589779 - 103603776 | | TRUE | TRUE |
| 1 | 210501596 - 210849638 | | TRUE | TRUE |
| 1 | 210501596 - 210849638 | T - 88.89% | TRUE | TRUE |
| 1 | 210501596 - 210849638 | | TRUE | TRUE |
| 1 | 210501596 - 210849638 | F - 5.56% | FALSE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | FALSE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | FALSE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | FALSE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 83.33% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 72.22% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 8.33% | TRUE | FALSE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 36.11% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 72.22% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 86.11% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 83.33% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 80.56% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 71680753 - 71913898 | F - 2.78% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 36.11% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 72.22% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 2.78% | FALSE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 2.78% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 2.78% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | T - 91.67% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 2.78% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 8.33% | TRUE | TRUE |
| 2 | 71680753 - 71913898 | F - 2.78% | FALSE | TRUE |
| 2 | 71680753 - 71913898 | | FALSE | TRUE |
| 8 | 15274724 - 15624158 | | TRUE | TRUE |
| 8 | 15274724 - 15624158 | T - 55.56% | TRUE | TRUE |
| 8 | 15274724 - 15624158 | | TRUE | FALSE |
| 8 | 15274724 - 15624158 | F - 11.11% | FALSE | TRUE |
| 8 | 15274724 - 15624158 | F - 5.56% | TRUE | TRUE |
| 8 | 15274724 - 15624158 | F - 11.11% | TRUE | TRUE |
| 8 | 15274724 - 15624158 | | TRUE | TRUE |
| 9 | 95883771 - 95896570 | F - 11.11% | TRUE | TRUE |
| 9 | 95883771 - 95896570 | F - 22.22% | TRUE | TRUE |
| 9 | 95883771 - 95896570 | F - 11.11% | FALSE | TRUE |
| 9 | 95883771 - 95896570 | | TRUE | TRUE |
| 9 | 95883771 - 95896570 | | TRUE | TRUE |
| 9 | 95883771 - 95896570 | | FALSE | TRUE |
| 9 | 95883771 - 95896570 | | FALSE | TRUE |
| 19 | 58768639 - 58790174 | | TRUE | TRUE |
| 19 | 58768639 - 58790174 | T - 100.00% | TRUE | TRUE |
| 19 | 58768639 - 58790174 | | TRUE | TRUE |
| 1 | 47649261 - 47656716 | | TRUE | TRUE |
| 1 | 47649261 - 47656716 | | FALSE | TRUE |
| 1 | 47649261 - 47656716 | F - 16.67% | TRUE | TRUE |
| 1 | 225589204 - 225616627 | | TRUE | TRUE |
| 1 | 225589204 - 225616627 | | TRUE | TRUE |
| 1 | 225589204 - 225616627 | | TRUE | TRUE |
| 1 | 225589204 - 225616627 | | TRUE | TRUE |
| 1 | 225589204 - 225616627 | F - 20.00% | TRUE | FALSE |
| 1 | 225589204 - 225616627 | F - 20.00% | TRUE | TRUE |
| 1 | 225589204 - 225616627 | F - 10.00% | TRUE | TRUE |
| 1 | 225589204 - 225616627 | F - 10.00% | TRUE | TRUE |
| 1 | 225589204 - 225616627 | F - 10.00% | TRUE | TRUE |
| 1 | 225589204 - 225616627 | | FALSE | TRUE |
| 1 | 180244515 - 180472089 | | TRUE | TRUE |
| 1 | 180244515 - 180472089 | F - 40.00% | TRUE | TRUE |
| 1 | 180244515 - 180472089 | T - 60.00% | TRUE | TRUE |
| 1 | 180244515 - 180472089 | T - 100.00% | TRUE | TRUE |
| 2 | 171627623 - 171634658 | T - 100.00% | TRUE | TRUE |
| 2 | 171627623 - 171634658 | | TRUE | TRUE |
| 2 | 171627623 - 171634658 | T - 100.00% | TRUE | TRUE |
| 2 | 171627623 - 171634658 | T - 100.00% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 3 | 49946302 - 49967606 | | TRUE | TRUE |
| | 3 | 49946302 - 49967606 | F - 6.67% | FALSE | TRUE |
| | 3 | 133317019 - 133380737 | | TRUE | TRUE |
| | 3 | 133317019 - 133380737 | F - 46.15% | TRUE | TRUE |
| | 5 | 123972608 - 124084500 | | TRUE | FALSE |
| | 5 | 123972608 - 124084500 | F - 11.76% | FALSE | TRUE |
| | 11 | 65365226 - 65381720 | | TRUE | TRUE |
| | 11 | 65365226 - 65381720 | F - 10.00% | TRUE | TRUE |
| | 12 | 13197218 - 13236383 | F - 14.29% | TRUE | FALSE |
| | 12 | 13197218 - 13236383 | F - 42.86% | TRUE | TRUE |
| | 12 | 13197218 - 13236383 | | FALSE | TRUE |
| | 12 | 13197218 - 13236383 | | FALSE | TRUE |
| | 1 | 100810033 - 100985833 | | TRUE | FALSE |
| | 1 | 100810033 - 100985833 | F - 11.11% | TRUE | TRUE |
| | 1 | 100810033 - 100985833 | F - 5.56% | FALSE | TRUE |
| | 1 | 100810033 - 100985833 | F - 5.56% | FALSE | TRUE |
| | 2 | 101436613 - 101613291 | | TRUE | FALSE |
| | 2 | 101436613 - 101613291 | | TRUE | FALSE |
| | 2 | 101436613 - 101613291 | F - 5.56% | TRUE | TRUE |
| | 2 | 128994290 - 129076171 | F - 14.29% | TRUE | TRUE |
| | 2 | 128994290 - 129076171 | T - 71.43% | TRUE | TRUE |
| | 2 | 128994290 - 129076171 | | TRUE | TRUE |
| | 2 | 128994290 - 129076171 | F - 14.29% | TRUE | TRUE |
| | 2 | 128994290 - 129076171 | F - 14.29% | FALSE | TRUE |
| | 3 | 44771088 - 44778575 | | TRUE | FALSE |
| | 3 | 44771088 - 44778575 | F - 12.50% | TRUE | TRUE |
| | 3 | 44771088 - 44778575 | F - 37.50% | FALSE | TRUE |
| | 7 | 73613982 - 73644164 | | TRUE | TRUE |
| | 7 | 73613982 - 73644164 | T - 82.35% | TRUE | FALSE |
| | 7 | 73613982 - 73644164 | T - 76.47% | TRUE | TRUE |
| | 7 | 73613982 - 73644164 | | FALSE | TRUE |
| | 7 | 102553344 - 102585556 | | TRUE | TRUE |
| | 7 | 102553344 - 102585556 | | TRUE | FALSE |
| | 7 | 102553344 - 102585556 | F - 25.00% | FALSE | TRUE |
| | 7 | 102553344 - 102585556 | F - 12.50% | FALSE | TRUE |
| X | | 48911101 - 48927510 | | TRUE | TRUE |
| X | | 48911101 - 48927510 | F - 15.38% | TRUE | TRUE |
| | 10 | 72014713 - 72043450 | T - 100.00% | TRUE | TRUE |
| | 10 | 72014713 - 72043450 | | TRUE | TRUE |
| | 12 | 40590546 - 40763087 | | TRUE | FALSE |
| | 12 | 40590546 - 40763087 | | TRUE | TRUE |
| | 12 | 40590546 - 40763087 | | TRUE | TRUE |
| | 12 | 40590546 - 40763087 | | TRUE | TRUE |
| | 12 | 40590546 - 40763087 | T - 58.33% | TRUE | TRUE |
| | 12 | 40590546 - 40763087 | | FALSE | TRUE |
| | 12 | 40590546 - 40763087 | | FALSE | TRUE |
| | 17 | 13927802 - 13928991 | | TRUE | TRUE |
| | 17 | 13927802 - 13928991 | | TRUE | TRUE |
| | 17 | 13927802 - 13928991 | T - 100.00% | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | T - 60.00% | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | F - 5.00% | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | F - 25.00% | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | F - 10.00% | FALSE | TRUE |
| | 20 | 4100589 - 4168394 | | FALSE | TRUE |
| | 20 | 4100589 - 4168394 | F - 5.00% | TRUE | TRUE |
| | 20 | 4100589 - 4168394 | T - 50.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 20 | 4100589 - 4168394 | F - 45.00% | FALSE | TRUE |
| 20 | 4100589 - 4168394 | F - 5.00% | TRUE | TRUE |
| 20 | 4100589 - 4168394 | T - 55.00% | TRUE | TRUE |
| 20 | 4100589 - 4168394 | | FALSE | TRUE |
| 22 | 42095503 - 42195460 | | TRUE | FALSE |
| 22 | 42095503 - 42195460 | | TRUE | FALSE |
| 22 | 42095503 - 42195460 | F - 25.00% | TRUE | TRUE |
| 22 | 42095503 - 42195460 | T - 65.63% | TRUE | TRUE |
| 22 | 42095503 - 42195460 | | FALSE | TRUE |
| 22 | 39214456 - 39240017 | F - 33.33% | TRUE | TRUE |
| 22 | 39214456 - 39240017 | | TRUE | TRUE |
| 22 | 39214456 - 39240017 | T - 66.67% | FALSE | TRUE |
| 2 | 219536749 - 219567440 | | TRUE | TRUE |
| 2 | 219536749 - 219567440 | | TRUE | TRUE |
| 2 | 219536749 - 219567440 | | TRUE | TRUE |
| 2 | 219536749 - 219567440 | F - 36.36% | TRUE | TRUE |
| 2 | 219536749 - 219567440 | | FALSE | TRUE |
| 2 | 39024871 - 39103075 | | TRUE | TRUE |
| 2 | 39024871 - 39103075 | | TRUE | FALSE |
| 2 | 39024871 - 39103075 | | TRUE | TRUE |
| 2 | 39024871 - 39103075 | | TRUE | FALSE |
| 2 | 39024871 - 39103075 | | TRUE | TRUE |
| 2 | 39024871 - 39103075 | F - 16.67% | FALSE | TRUE |
| 2 | 39024871 - 39103075 | | TRUE | TRUE |
| 2 | 230631930 - 230787955 | | TRUE | FALSE |
| 2 | 230631930 - 230787955 | F - 4.00% | TRUE | TRUE |
| 2 | 230631930 - 230787955 | F - 4.00% | TRUE | TRUE |
| 2 | 230631930 - 230787955 | | FALSE | TRUE |
| 3 | 48488114 - 48509044 | T - 51.72% | TRUE | TRUE |
| 3 | 48488114 - 48509044 | | TRUE | TRUE |
| 3 | 48488114 - 48509044 | F - 27.59% | TRUE | TRUE |
| 3 | 48488114 - 48509044 | | TRUE | FALSE |
| 3 | 48488114 - 48509044 | | TRUE | TRUE |
| 3 | 48488114 - 48509044 | | TRUE | FALSE |
| 3 | 48488114 - 48509044 | F - 44.83% | TRUE | TRUE |
| 3 | 48488114 - 48509044 | | TRUE | TRUE |
| 3 | 48488114 - 48509044 | F - 41.38% | TRUE | TRUE |
| 4 | 81105033 - 81125483 | T - 66.67% | TRUE | TRUE |
| 4 | 81105033 - 81125483 | | TRUE | TRUE |
| 4 | 81105033 - 81125483 | | TRUE | TRUE |
| 4 | 81105033 - 81125483 | | FALSE | TRUE |
| 4 | 81105033 - 81125483 | F - 40.00% | FALSE | TRUE |
| 4 | 81105033 - 81125483 | F - 33.33% | TRUE | TRUE |
| 4 | 81105033 - 81125483 | T - 53.33% | TRUE | TRUE |
| 8 | 80830952 - 80942524 | F - 45.45% | TRUE | FALSE |
| 8 | 80830952 - 80942524 | | TRUE | TRUE |
| 9 | 33441152 - 33447631 | | TRUE | TRUE |
| 9 | 33441152 - 33447631 | | TRUE | TRUE |
| 9 | 33441152 - 33447631 | T - 72.73% | TRUE | TRUE |
| 10 | 4828820 - 4890254 | | TRUE | TRUE |
| 10 | 4828820 - 4890254 | T - 61.11% | TRUE | TRUE |
| 10 | 4828820 - 4890254 | F - 38.89% | TRUE | TRUE |
| 10 | 4828820 - 4890254 | | FALSE | TRUE |
| 10 | 4828820 - 4890254 | | TRUE | TRUE |
| 10 | 4828820 - 4890254 | | FALSE | TRUE |
| 10 | 26726706 - 26856732 | | TRUE | TRUE |
| 10 | 26726706 - 26856732 | | TRUE | TRUE |
| 10 | 26726706 - 26856732 | T - 66.67% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 10 | 26726706 - 26856732 | F - 44.44% | TRUE | TRUE |
| 10 | 26726706 - 26856732 | | TRUE | TRUE |
| 10 | 26726706 - 26856732 | F - 11.11% | TRUE | TRUE |
| 10 | 26726706 - 26856732 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | F - 14.81% | TRUE | TRUE |
| 11 | 6518490 - 6593257 | F - 7.41% | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | F - 29.63% | TRUE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | F - 3.70% | FALSE | TRUE |
| 11 | 6518490 - 6593257 | | TRUE | TRUE |
| 11 | 6518490 - 6593257 | F - 14.81% | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | FALSE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | F - 47.83% | TRUE | TRUE |
| 14 | 92524896 - 92572965 | T - 82.61% | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | T - 67.39% | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | FALSE | TRUE |
| 14 | 92524896 - 92572965 | T - 79.35% | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 14 | 92524896 - 92572965 | | TRUE | TRUE |
| 19 | 46800303 - 46846690 | F - 16.67% | TRUE | FALSE |
| 19 | 46800303 - 46846690 | T - 100.00% | TRUE | FALSE |
| 19 | 46800303 - 46846690 | | TRUE | FALSE |
| 19 | 46800303 - 46846690 | | TRUE | TRUE |
| 19 | 46800303 - 46846690 | | TRUE | TRUE |
| 19 | 46800303 - 46846690 | T - 95.83% | TRUE | TRUE |
| 6_apd_hap1 | 3773805 - 3787550 | | TRUE | FALSE |
| 6_apd_hap1 | 3773805 - 3787550 | T - 87.50% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | | TRUE | FALSE |
| 3 | 125725198 - 125820404 | F - 19.35% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | F - 9.68% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | F - 12.90% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | F - 6.45% | TRUE | FALSE |
| 3 | 125725198 - 125820404 | F - 9.68% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | | TRUE | TRUE |
| 3 | 125725198 - 125820404 | F - 3.23% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | F - 3.23% | TRUE | TRUE |
| 3 | 125725198 - 125820404 | F - 22.58% | FALSE | TRUE |
| 4 | 120415550 - 120550146 | | TRUE | TRUE |
| 4 | 120415550 - 120550146 | | TRUE | TRUE |
| 4 | 120415550 - 120550146 | F - 18.75% | TRUE | TRUE |
| 4 | 120415550 - 120550146 | F - 6.25% | FALSE | TRUE |
| 4 | 120415550 - 120550146 | | TRUE | TRUE |
| 4 | 120415550 - 120550146 | | TRUE | TRUE |
| 6 | 29855383 - 29858856 | F - 33.33% | TRUE | TRUE |
| 6 | 29855383 - 29858856 | F - 33.33% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 6 | 29855383 - 29858856 | T - 66.67% | TRUE | TRUE |
| | 6 | 29855383 - 29858856 | | TRUE | TRUE |
| | 8 | 90945564 - 91015456 | T - 64.71% | TRUE | TRUE |
| | 8 | 90945564 - 91015456 | | FALSE | TRUE |
| | 8 | 90945564 - 91015456 | | TRUE | TRUE |
| | 8 | 90945564 - 91015456 | | FALSE | TRUE |
| | 9 | 107543283 - 107690527 | | TRUE | TRUE |
| | 9 | 107543283 - 107690527 | | TRUE | TRUE |
| | 9 | 107543283 - 107690527 | F - 42.86% | TRUE | TRUE |
| | 9 | 107543283 - 107690527 | F - 42.86% | TRUE | TRUE |
| | 9 | 107543283 - 107690527 | | TRUE | TRUE |
| | 9 | 107543283 - 107690527 | F - 42.86% | TRUE | TRUE |
| | 9 | 107543283 - 107690527 | | FALSE | TRUE |
| X | | 77320685 - 77384793 | F - 14.29% | TRUE | TRUE |
| X | | 77320685 - 77384793 | F - 14.29% | TRUE | TRUE |
| X | | 77320685 - 77384793 | | TRUE | TRUE |
| X | | 77320685 - 77384793 | F - 35.71% | TRUE | TRUE |
| X | | 77320685 - 77384793 | F - 21.43% | TRUE | TRUE |
| X | | 77320685 - 77384793 | F - 35.71% | TRUE | TRUE |
| X | | 77320685 - 77384793 | F - 7.14% | TRUE | TRUE |
| X | | 152082986 - 152142025 | | TRUE | FALSE |
| X | | 152082986 - 152142025 | T - 84.62% | TRUE | TRUE |
| X | | 152082986 - 152142025 | | TRUE | TRUE |
| X | | 152082986 - 152142025 | T - 76.92% | FALSE | TRUE |
| X | | 152082986 - 152142025 | | FALSE | TRUE |
| X | | 152082986 - 152142025 | T - 84.62% | TRUE | TRUE |
| X | | 152082986 - 152142025 | | TRUE | TRUE |
| | 10 | 124768429 - 124817827 | | TRUE | TRUE |
| | 10 | 124768429 - 124817827 | | TRUE | TRUE |
| | 10 | 124768429 - 124817827 | F - 14.29% | TRUE | TRUE |
| | 10 | 124768429 - 124817827 | F - 14.29% | TRUE | TRUE |
| | 10 | 124768429 - 124817827 | | TRUE | TRUE |
| | 12 | 27485787 - 27578746 | | TRUE | FALSE |
| | 12 | 27485787 - 27578746 | T - 100.00% | TRUE | TRUE |
| | 12 | 27485787 - 27578746 | | TRUE | TRUE |
| | 12 | 27485787 - 27578746 | | FALSE | TRUE |
| | 12 | 27485787 - 27578746 | F - 31.25% | FALSE | TRUE |
| | 12 | 27485787 - 27578746 | | FALSE | TRUE |
| | 12 | 14920933 - 14924065 | F - 25.00% | TRUE | TRUE |
| | 12 | 14920933 - 14924065 | T - 75.00% | TRUE | TRUE |
| | 12 | 14920933 - 14924065 | | TRUE | TRUE |
| | 12 | 14920933 - 14924065 | F - 25.00% | TRUE | TRUE |
| | 12 | 91539025 - 91576900 | | TRUE | TRUE |
| | 12 | 91539025 - 91576900 | F - 8.00% | TRUE | TRUE |
| | 12 | 91539025 - 91576900 | F - 4.00% | TRUE | TRUE |
| | 12 | 91539025 - 91576900 | F - 16.00% | TRUE | TRUE |
| | 12 | 91539025 - 91576900 | | FALSE | TRUE |
| | 16 | 74705753 - 74734789 | T - 60.00% | TRUE | TRUE |
| | 16 | 74705753 - 74734789 | | FALSE | TRUE |
| | 16 | 74705753 - 74734789 | F - 40.00% | TRUE | TRUE |
| | 1 | 101455179 - 101491644 | | TRUE | FALSE |
| | 1 | 101455179 - 101491644 | T - 76.00% | TRUE | TRUE |
| | 1 | 101455179 - 101491644 | | FALSE | TRUE |
| | 1 | 101455179 - 101491644 | | FALSE | TRUE |
| | 5 | 178487416 - 178510538 | | TRUE | FALSE |
| | 5 | 178487416 - 178510538 | F - 33.33% | TRUE | TRUE |
| | 5 | 178487416 - 178510538 | | TRUE | FALSE |
| | 5 | 178487416 - 178510538 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 5 | 141689992 - 141706020 | T - 70.00% | TRUE | TRUE |
| 5 | 141689992 - 141706020 | F - 10.00% | TRUE | TRUE |
| 5 | 141689992 - 141706020 | | TRUE | TRUE |
| 5 | 141689992 - 141706020 | | FALSE | TRUE |
| 5 | 141689992 - 141706020 | | FALSE | TRUE |
| 5 | 141689992 - 141706020 | T - 60.00% | TRUE | TRUE |
| 5 | 141689992 - 141706020 | | FALSE | TRUE |
| 5 | 141689992 - 141706020 | T - 70.00% | TRUE | TRUE |
| 5 | 141689992 - 141706020 | T - 50.00% | TRUE | TRUE |
| 5 | 141689992 - 141706020 | F - 30.00% | TRUE | TRUE |
| 11 | 69467844 - 69490184 | | TRUE | FALSE |
| 11 | 69467844 - 69490184 | F - 5.00% | TRUE | TRUE |
| 11 | 69467844 - 69490184 | | FALSE | TRUE |
| 13 | 20248764 - 20357159 | | TRUE | TRUE |
| 13 | 20248764 - 20357159 | F - 27.27% | TRUE | TRUE |
| 13 | 20248764 - 20357159 | T - 54.55% | FALSE | TRUE |
| 14 | 69725994 - 69821190 | | TRUE | FALSE |
| 14 | 69725994 - 69821190 | T - 81.82% | TRUE | FALSE |
| 16 | 20420856 - 20452658 | | TRUE | FALSE |
| 16 | 20420856 - 20452658 | | TRUE | FALSE |
| 16 | 20420856 - 20452658 | T - 75.00% | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | F - 5.00% | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | F - 5.00% | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | | FALSE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | F - 10.00% | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | | FALSE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | F - 5.00% | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | | TRUE | TRUE |
| 6_cox_hap2 | 1206741 - 1223145 | F - 25.00% | TRUE | TRUE |
| 2 | 20760208 - 20850864 | | TRUE | TRUE |
| 2 | 20760208 - 20850864 | | FALSE | TRUE |
| 2 | 20760208 - 20850864 | F - 18.18% | TRUE | TRUE |
| 2 | 215590370 - 215674428 | | TRUE | TRUE |
| 2 | 215590370 - 215674428 | T - 65.00% | TRUE | TRUE |
| 3 | 66429221 - 66551687 | F - 6.25% | TRUE | TRUE |
| 3 | 66429221 - 66551687 | | TRUE | TRUE |
| 3 | 66429221 - 66551687 | F - 6.25% | TRUE | TRUE |
| 3 | 66429221 - 66551687 | | TRUE | TRUE |
| 3 | 66429221 - 66551687 | F - 12.50% | TRUE | TRUE |
| 3 | 66429221 - 66551687 | F - 6.25% | TRUE | TRUE |
| 3 | 66429221 - 66551687 | F - 6.25% | TRUE | TRUE |
| 3 | 66429221 - 66551687 | F - 12.50% | TRUE | TRUE |
| 6 | 134490384 - 134639196 | F - 3.23% | TRUE | TRUE |
| 6 | 134490384 - 134639196 | F - 3.23% | TRUE | TRUE |
| 6 | 134490384 - 134639196 | T - 67.74% | TRUE | FALSE |
| 6 | 134490384 - 134639196 | F - 3.23% | TRUE | TRUE |
| 6 | 134490384 - 134639196 | | TRUE | TRUE |
| 6 | 134490384 - 134639196 | F - 6.45% | TRUE | TRUE |
| 6 | 134490384 - 134639196 | F - 6.45% | TRUE | TRUE |
| 6 | 134490384 - 134639196 | F - 9.68% | FALSE | TRUE |
| 6 | 134490384 - 134639196 | | TRUE | TRUE |
| 6 | 134490384 - 134639196 | | TRUE | TRUE |
| 6 | 134490384 - 134639196 | F - 16.13% | TRUE | TRUE |
| 12 | 53342655 - 53346690 | T - 100.00% | TRUE | TRUE |
| 12 | 53342655 - 53346690 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 53342655 - 53346690 | F - 33.33% | FALSE | TRUE |
| 12 | 53342655 - 53346690 | F - 8.33% | TRUE | TRUE |
| 12 | 113659243 - 113736390 | | TRUE | TRUE |
| 12 | 113659243 - 113736390 | | TRUE | TRUE |
| 12 | 113659243 - 113736390 | T - 84.62% | TRUE | TRUE |
| 12 | 113659243 - 113736390 | T - 53.85% | TRUE | TRUE |
| 12 | 113659243 - 113736390 | | TRUE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | FALSE |
| 13 | 101706130 - 102068843 | F - 20.00% | TRUE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | TRUE |
| 13 | 101706130 - 102068843 | F - 10.00% | FALSE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | FALSE |
| 13 | 101706130 - 102068843 | F - 20.00% | TRUE | TRUE |
| 13 | 101706130 - 102068843 | F - 20.00% | TRUE | TRUE |
| 13 | 101706130 - 102068843 | F - 20.00% | TRUE | TRUE |
| 13 | 101706130 - 102068843 | F - 40.00% | TRUE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | TRUE |
| 13 | 101706130 - 102068843 | | TRUE | FALSE |
| 14 | 50704281 - 50779266 | | TRUE | FALSE |
| 14 | 50704281 - 50779266 | F - 25.00% | TRUE | FALSE |
| 14 | 50704281 - 50779266 | | TRUE | FALSE |
| 14 | 50704281 - 50779266 | | TRUE | TRUE |
| 14 | 50704281 - 50779266 | | FALSE | TRUE |
| 2 | 37571717 - 37600465 | | TRUE | TRUE |
| 2 | 37571717 - 37600465 | | TRUE | FALSE |
| 2 | 37571717 - 37600465 | T - 80.00% | TRUE | TRUE |
| 2 | 37571717 - 37600465 | | TRUE | TRUE |
| 2 | 37571717 - 37600465 | T - 70.00% | TRUE | TRUE |
| 2 | 37571717 - 37600465 | T - 70.00% | TRUE | TRUE |
| 2 | 37571717 - 37600465 | F - 30.00% | TRUE | TRUE |
| 2 | 37571717 - 37600465 | F - 10.00% | TRUE | TRUE |
| 4 | 174252527 - 174256276 | F - 10.00% | TRUE | TRUE |
| 4 | 174252527 - 174256276 | | TRUE | TRUE |
| 4 | 174252527 - 174256276 | F - 10.00% | TRUE | TRUE |
| 4 | 174252527 - 174256276 | F - 10.00% | TRUE | TRUE |
| 4 | 174252527 - 174256276 | T - 50.00% | TRUE | TRUE |
| 4 | 174252527 - 174256276 | | TRUE | TRUE |
| 4 | 174252527 - 174256276 | | TRUE | TRUE |
| 4 | 174252527 - 174256276 | F - 30.00% | FALSE | TRUE |
| 4 | 174252527 - 174256276 | | TRUE | TRUE |
| 4 | 174252527 - 174256276 | F - 30.00% | FALSE | TRUE |
| 5 | 66675206 - 67101066 | | TRUE | TRUE |
| 5 | 66675206 - 67101066 | | TRUE | TRUE |
| 5 | 66675206 - 67101066 | | TRUE | FALSE |
| 5 | 66675206 - 67101066 | F - 14.29% | FALSE | TRUE |
| 5 | 94890778 - 94940806 | | TRUE | TRUE |
| 5 | 94890778 - 94940806 | F - 18.18% | TRUE | TRUE |
| 5 | 94890778 - 94940806 | | TRUE | FALSE |
| 5 | 137774706 - 137782658 | F - 16.67% | TRUE | TRUE |
| 5 | 137774706 - 137782658 | | TRUE | TRUE |
| 5 | 137774706 - 137782658 | | TRUE | TRUE |
| 5 | 137774706 - 137782658 | F - 41.67% | TRUE | TRUE |
| 5 | 137774706 - 137782658 | | TRUE | TRUE |
| 5 | 137774706 - 137782658 | F - 8.33% | TRUE | TRUE |
| 5 | 137774706 - 137782658 | F - 8.33% | TRUE | TRUE |
| 5 | 137774706 - 137782658 | F - 8.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 5 | 137774706 - 137782658 | F - 16.67% | TRUE | TRUE |
| 7 | 117350705 - 117514193 | | TRUE | FALSE |
| 7 | 117350705 - 117514193 | | TRUE | FALSE |
| 7 | 117350705 - 117514193 | | TRUE | TRUE |
| 7 | 117350705 - 117514193 | F - 42.86% | TRUE | TRUE |
| 11 | 32914724 - 33014862 | F - 16.67% | TRUE | TRUE |
| 11 | 32914724 - 33014862 | | TRUE | TRUE |
| 11 | 32914724 - 33014862 | | TRUE | TRUE |
| 13 | 114586610 - 114626485 | T - 75.00% | TRUE | TRUE |
| 13 | 114586610 - 114626485 | | TRUE | TRUE |
| 20 | 25176329 - 25207365 | | TRUE | TRUE |
| 20 | 25176329 - 25207365 | | TRUE | FALSE |
| 20 | 25176329 - 25207365 | | TRUE | TRUE |
| 20 | 25176329 - 25207365 | F - 2.94% | FALSE | TRUE |
| 1 | 212899495 - 212965139 | | TRUE | TRUE |
| 1 | 212899495 - 212965139 | F - 9.09% | TRUE | TRUE |
| 6 | 76458909 - 76629254 | | TRUE | FALSE |
| 6 | 76458909 - 76629254 | T - 50.00% | TRUE | TRUE |
| 6 | 76458909 - 76629254 | | TRUE | TRUE |
| 6 | 76458909 - 76629254 | | TRUE | TRUE |
| 6 | 76458909 - 76629254 | | TRUE | TRUE |
| 8 | 89044237 - 89340254 | T - 87.50% | TRUE | TRUE |
| 8 | 89044237 - 89340254 | | TRUE | TRUE |
| 8 | 89044237 - 89340254 | | TRUE | FALSE |
| 8 | 89044237 - 89340254 | | TRUE | FALSE |
| 8 | 89044237 - 89340254 | T - 87.50% | TRUE | TRUE |
| 15 | 42640301 - 42704515 | | TRUE | TRUE |
| 15 | 42640301 - 42704515 | T - 62.50% | TRUE | TRUE |
| 15 | 42640301 - 42704515 | F - 31.58% | FALSE | TRUE |
| 15 | 42640301 - 42704515 | T - 62.50% | TRUE | TRUE |
| 15 | 42640301 - 42704515 | T - 62.50% | TRUE | TRUE |
| 15 | 42640301 - 42704515 | | FALSE | TRUE |
| 15 | 42640301 - 42704515 | | TRUE | TRUE |
| 15 | 42640301 - 42704515 | | TRUE | TRUE |
| 15 | 42640301 - 42704515 | | TRUE | TRUE |
| 15 | 42640301 - 42704515 | T - 62.50% | TRUE | TRUE |
| 15 | 42640301 - 42704515 | | FALSE | TRUE |
| 15 | 42640301 - 42704515 | | TRUE | TRUE |
| 19 | 37407231 - 37489259 | | TRUE | TRUE |
| 19 | 37407231 - 37489259 | | TRUE | TRUE |
| 19 | 37407231 - 37489259 | F - 22.22% | TRUE | FALSE |
| 19 | 37407231 - 37489259 | | TRUE | TRUE |
| 19 | 37407231 - 37489259 | F - 44.44% | TRUE | TRUE |
| 19 | 37407231 - 37489259 | | FALSE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | FALSE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 4 | 104026963 - 104119566 | F - 40.00% | TRUE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 4 | 104026963 - 104119566 | F - 40.00% | TRUE | TRUE |
| 4 | 104026963 - 104119566 | | TRUE | TRUE |
| 5 | 94799599 - 94890711 | F - 27.78% | TRUE | TRUE |
| 5 | 94799599 - 94890711 | | TRUE | TRUE |
| 5 | 94799599 - 94890711 | F - 5.56% | TRUE | TRUE |
| 5 | 94799599 - 94890711 | | TRUE | TRUE |

| | | | | |
|--------------|-----------------------|-------------|-------|-------|
| 5 | 94799599 - 94890711 | F - 16.67% | TRUE | TRUE |
| 6 | 29624758 - 29640149 | | TRUE | FALSE |
| 6 | 29624758 - 29640149 | F - 41.67% | TRUE | TRUE |
| 7 | 99214569 - 99336131 | | TRUE | TRUE |
| 7 | 99214569 - 99336131 | F - 5.88% | TRUE | TRUE |
| 7 | 150076406 - 150109558 | F - 6.25% | TRUE | TRUE |
| 7 | 150076406 - 150109558 | F - 18.75% | TRUE | TRUE |
| 7 | 150076406 - 150109558 | | TRUE | TRUE |
| 7 | 150076406 - 150109558 | F - 12.50% | TRUE | TRUE |
| 7 | 150076406 - 150109558 | F - 25.00% | TRUE | TRUE |
| 7 | 150076406 - 150109558 | F - 25.00% | TRUE | TRUE |
| 10 | 49514698 - 49647403 | | TRUE | FALSE |
| 10 | 49514698 - 49647403 | | TRUE | TRUE |
| 10 | 49514698 - 49647403 | T - 80.00% | TRUE | TRUE |
| 10 | 49514698 - 49647403 | | TRUE | TRUE |
| 10 | 49514698 - 49647403 | | FALSE | TRUE |
| 10 | 49514698 - 49647403 | | TRUE | TRUE |
| 11 | 8040791 - 8127659 | F - 42.86% | TRUE | FALSE |
| 11 | 8040791 - 8127659 | | TRUE | TRUE |
| 11 | 8040791 - 8127659 | T - 85.71% | TRUE | TRUE |
| 11 | 8040791 - 8127659 | | FALSE | TRUE |
| 11 | 8040791 - 8127659 | T - 100.00% | FALSE | TRUE |
| 11 | 6495913 - 6502709 | | TRUE | FALSE |
| 11 | 6495913 - 6502709 | T - 63.64% | TRUE | FALSE |
| 11 | 82534544 - 82612733 | | TRUE | TRUE |
| 11 | 82534544 - 82612733 | | FALSE | TRUE |
| 11 | 82534544 - 82612733 | F - 42.86% | TRUE | TRUE |
| 17_ctg5_hap1 | 563498 - 760700 | | TRUE | TRUE |
| 17_ctg5_hap1 | 563498 - 760700 | F - 22.22% | TRUE | TRUE |
| 17_ctg5_hap1 | 563498 - 760700 | | TRUE | TRUE |
| 1 | 40157854 - 40229586 | | TRUE | FALSE |
| 1 | 40157854 - 40229586 | | TRUE | TRUE |
| 1 | 40157854 - 40229586 | F - 20.00% | TRUE | TRUE |
| 1 | 40157854 - 40229586 | | TRUE | FALSE |
| 1 | 40157854 - 40229586 | T - 80.00% | FALSE | TRUE |
| 1 | 40157854 - 40229586 | | FALSE | TRUE |
| 2 | 179387554 - 179484944 | | TRUE | TRUE |
| 2 | 179387554 - 179484944 | F - 12.50% | TRUE | TRUE |
| 2 | 179387554 - 179484944 | F - 25.00% | TRUE | TRUE |
| 2 | 179387554 - 179484944 | F - 25.00% | TRUE | TRUE |
| 2 | 179387554 - 179484944 | | TRUE | FALSE |
| 2 | 179387554 - 179484944 | F - 37.50% | TRUE | TRUE |
| 5 | 7396321 - 7830194 | F - 7.14% | TRUE | TRUE |
| 5 | 7396321 - 7830194 | | TRUE | TRUE |
| 5 | 7396321 - 7830194 | F - 7.14% | FALSE | TRUE |
| 5 | 7396321 - 7830194 | F - 42.86% | FALSE | TRUE |
| 5 | 7396321 - 7830194 | | TRUE | TRUE |
| 5 | 7396321 - 7830194 | F - 7.14% | TRUE | TRUE |
| 5 | 7396321 - 7830194 | T - 57.14% | TRUE | TRUE |
| 5 | 7396321 - 7830194 | | TRUE | TRUE |
| 5 | 7396321 - 7830194 | | FALSE | TRUE |
| 5 | 7396321 - 7830194 | | TRUE | TRUE |
| 5 | 7396321 - 7830194 | | TRUE | TRUE |
| 5 | 179261436 - 179285887 | | TRUE | TRUE |
| 5 | 179261436 - 179285887 | | TRUE | TRUE |
| 5 | 179261436 - 179285887 | F - 37.50% | TRUE | TRUE |
| 5 | 179261436 - 179285887 | F - 31.25% | TRUE | TRUE |
| 5 | 179261436 - 179285887 | T - 62.50% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 9 | 136215069 - 136218281 | F - 13.64% | TRUE | TRUE |
| | 9 | 136215069 - 136218281 | F - 4.55% | TRUE | TRUE |
| | 9 | 136215069 - 136218281 | | TRUE | TRUE |
| | 9 | 136215069 - 136218281 | F - 4.55% | TRUE | TRUE |
| | 9 | 136215069 - 136218281 | F - 4.55% | TRUE | TRUE |
| X | | 148855726 - 148858528 | | TRUE | FALSE |
| X | | 148855726 - 148858528 | T - 100.00% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | F - 22.22% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | T - 77.78% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | T - 88.89% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | F - 11.11% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | T - 66.67% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | T - 66.67% | FALSE | TRUE |
| | 10 | 131633496 - 131762538 | T - 66.67% | TRUE | TRUE |
| | 10 | 131633496 - 131762538 | | FALSE | TRUE |
| | 10 | 131633496 - 131762538 | T - 66.67% | FALSE | TRUE |
| | 11 | 818901 - 825573 | | TRUE | TRUE |
| | 11 | 818901 - 825573 | T - 75.00% | TRUE | TRUE |
| | 12 | 108233068 - 108257744 | | TRUE | TRUE |
| | 12 | 108233068 - 108257744 | T - 100.00% | FALSE | TRUE |
| | 12 | 108233068 - 108257744 | T - 100.00% | TRUE | TRUE |
| | 12 | 108233068 - 108257744 | | TRUE | TRUE |
| | 15 | 51739908 - 51915030 | | TRUE | TRUE |
| | 15 | 51739908 - 51915030 | | TRUE | TRUE |
| | 15 | 51739908 - 51915030 | | TRUE | TRUE |
| | 15 | 51739908 - 51915030 | T - 84.62% | TRUE | TRUE |
| | 15 | 51739908 - 51915030 | | FALSE | TRUE |
| | 15 | 51739908 - 51915030 | | TRUE | TRUE |
| | 15 | 51739908 - 51915030 | | FALSE | TRUE |
| | 20 | 60697517 - 60710434 | | TRUE | FALSE |
| | 20 | 60697517 - 60710434 | | TRUE | TRUE |
| | 20 | 60697517 - 60710434 | F - 7.69% | TRUE | TRUE |
| | 20 | 42136320 - 42179593 | | TRUE | TRUE |
| | 20 | 42136320 - 42179593 | F - 6.67% | TRUE | FALSE |
| | 20 | 42136320 - 42179593 | | TRUE | TRUE |
| | 20 | 42136320 - 42179593 | F - 6.67% | FALSE | TRUE |
| | 1 | 224622362 - 224928251 | | TRUE | TRUE |
| | 1 | 224622362 - 224928251 | | TRUE | FALSE |
| | 1 | 224622362 - 224928251 | F - 12.50% | FALSE | TRUE |
| | 4 | 186317175 - 186321782 | T - 88.89% | TRUE | TRUE |
| | 4 | 186317175 - 186321782 | F - 11.11% | TRUE | TRUE |
| | 4 | 186317175 - 186321782 | F - 33.33% | TRUE | TRUE |
| | 4 | 186317175 - 186321782 | F - 22.22% | TRUE | TRUE |
| | 4 | 186317175 - 186321782 | F - 44.44% | TRUE | TRUE |
| | 4 | 186317175 - 186321782 | | TRUE | TRUE |
| | 4 | 186317175 - 186321782 | | FALSE | TRUE |
| | 4 | 36067620 - 36246131 | | TRUE | FALSE |
| | 4 | 36067620 - 36246131 | T - 50.00% | TRUE | TRUE |
| | 4 | 36067620 - 36246131 | | TRUE | FALSE |
| | 4 | 36067620 - 36246131 | | TRUE | FALSE |
| | 4 | 36067620 - 36246131 | T - 50.00% | TRUE | TRUE |
| | 4 | 36067620 - 36246131 | F - 25.00% | TRUE | TRUE |
| | 5 | 10226438 - 10250014 | | TRUE | TRUE |
| | 5 | 10226438 - 10250014 | F - 9.09% | FALSE | TRUE |
| | 7 | 149570057 - 149577787 | | TRUE | FALSE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 7 | 149570057 - 149577787 | T - 81.25% | TRUE | TRUE |
| 7 | 149570057 - 149577787 | F - 6.25% | TRUE | TRUE |
| 7 | 149570057 - 149577787 | | TRUE | TRUE |
| 7 | 112120908 - 112130943 | | TRUE | FALSE |
| 7 | 112120908 - 112130943 | F - 40.00% | TRUE | TRUE |
| 7 | 112120908 - 112130943 | F - 20.00% | FALSE | TRUE |
| 12 | 93164413 - 93323107 | T - 80.00% | TRUE | FALSE |
| 12 | 93164413 - 93323107 | | TRUE | TRUE |
| 15 | 29034980 - 29101720 | | TRUE | FALSE |
| 15 | 29034980 - 29101720 | | TRUE | TRUE |
| 15 | 29034980 - 29101720 | T - 50.00% | TRUE | TRUE |
| 15 | 29034980 - 29101720 | | FALSE | TRUE |
| 17 | 26900133 - 26903952 | | FALSE | TRUE |
| 17 | 26900133 - 26903952 | | FALSE | TRUE |
| 17 | 26900133 - 26903952 | | TRUE | TRUE |
| 17 | 26900133 - 26903952 | T - 75.00% | TRUE | TRUE |
| 17 | 26900133 - 26903952 | F - 12.50% | FALSE | TRUE |
| 17 | 26900133 - 26903952 | T - 62.50% | TRUE | TRUE |
| 17 | 26900133 - 26903952 | | TRUE | TRUE |
| 17 | 26900133 - 26903952 | | TRUE | TRUE |
| 20 | 12989627 - 13147411 | | TRUE | TRUE |
| 20 | 12989627 - 13147411 | | TRUE | TRUE |
| 20 | 12989627 - 13147411 | | TRUE | TRUE |
| 20 | 12989627 - 13147411 | F - 10.00% | TRUE | TRUE |
| 2 | 97258907 - 97308524 | | TRUE | FALSE |
| 2 | 97258907 - 97308524 | | TRUE | FALSE |
| 2 | 97258907 - 97308524 | F - 31.43% | TRUE | TRUE |
| 2 | 97258907 - 97308524 | | TRUE | TRUE |
| 2 | 97258907 - 97308524 | | TRUE | TRUE |
| 2 | 97258907 - 97308524 | F - 14.29% | TRUE | TRUE |
| 2 | 97258907 - 97308524 | | TRUE | TRUE |
| 4 | 106629935 - 106768885 | | TRUE | TRUE |
| 4 | 106629935 - 106768885 | F - 5.56% | TRUE | TRUE |
| 4 | 106629935 - 106768885 | T - 77.78% | TRUE | TRUE |
| 4 | 106629935 - 106768885 | | TRUE | TRUE |
| 4 | 106629935 - 106768885 | T - 50.00% | TRUE | TRUE |
| 4 | 170015361 - 170192256 | F - 25.00% | TRUE | TRUE |
| 4 | 170015361 - 170192256 | F - 37.50% | TRUE | TRUE |
| 4 | 170015361 - 170192256 | F - 12.50% | TRUE | TRUE |
| 4 | 170015361 - 170192256 | F - 12.50% | TRUE | TRUE |
| 4 | 170015361 - 170192256 | | TRUE | TRUE |
| 4 | 170015361 - 170192256 | F - 37.50% | TRUE | TRUE |
| 4 | 170015361 - 170192256 | | FALSE | TRUE |
| 4 | 170015361 - 170192256 | | TRUE | TRUE |
| 8 | 82711816 - 82755101 | F - 6.67% | TRUE | FALSE |
| 8 | 82711816 - 82755101 | | FALSE | TRUE |
| 18 | 3247528 - 3256234 | | TRUE | TRUE |
| 18 | 3247528 - 3256234 | T - 60.00% | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | TRUE | FALSE |
| 6_dbb_hap3 | 3235382 - 3256040 | T - 56.52% | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | FALSE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | F - 4.35% | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | F - 4.35% | FALSE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | F - 4.35% | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | F - 47.83% | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 6_dbb_hap3 | 3235382 - 3256040 | | FALSE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | FALSE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | TRUE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | FALSE | TRUE |
| 6_dbb_hap3 | 3235382 - 3256040 | | FALSE | TRUE |
| 6_mcf_hap5 | 991065 - 994247 | F - 5.88% | TRUE | TRUE |
| 6_mcf_hap5 | 991065 - 994247 | F - 5.88% | TRUE | TRUE |
| 6_mcf_hap5 | 991065 - 994247 | | TRUE | TRUE |
| 6_mcf_hap5 | 991065 - 994247 | F - 11.76% | TRUE | TRUE |
| 6_mcf_hap5 | 991065 - 994247 | | TRUE | TRUE |
| 1 | 114356433 - 114414381 | T - 90.00% | TRUE | TRUE |
| 1 | 114356433 - 114414381 | | FALSE | TRUE |
| 1 | 114356433 - 114414381 | | FALSE | TRUE |
| 2 | 74881355 - 74909186 | | TRUE | TRUE |
| 2 | 74881355 - 74909186 | | TRUE | TRUE |
| 2 | 74881355 - 74909186 | F - 5.56% | TRUE | FALSE |
| 2 | 74881355 - 74909186 | T - 88.89% | FALSE | TRUE |
| 2 | 74881355 - 74909186 | | TRUE | TRUE |
| 2 | 74881355 - 74909186 | | FALSE | TRUE |
| 2 | 74881355 - 74909186 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | FALSE |
| 2 | 112523848 - 112642267 | | TRUE | FALSE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | F - 38.46% | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 2 | 112523848 - 112642267 | | TRUE | TRUE |
| 3 | 108268718 - 108308491 | | TRUE | TRUE |
| 3 | 108268718 - 108308491 | | TRUE | TRUE |
| 3 | 108268718 - 108308491 | F - 45.45% | FALSE | TRUE |
| 3 | 108268718 - 108308491 | | FALSE | TRUE |
| 6 | 170863390 - 170881958 | | TRUE | FALSE |
| 6 | 170863390 - 170881958 | T - 57.14% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | FALSE |
| 9 | 8314246 - 10612723 | | TRUE | FALSE |
| 9 | 8314246 - 10612723 | F - 28.00% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | F - 4.00% | TRUE | FALSE |
| 9 | 8314246 - 10612723 | | TRUE | TRUE |
| 9 | 8314246 - 10612723 | T - 80.00% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | T - 88.00% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | F - 4.00% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | T - 80.00% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | FALSE |
| 9 | 8314246 - 10612723 | | TRUE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | TRUE |
| 9 | 8314246 - 10612723 | F - 12.00% | FALSE | TRUE |
| 9 | 8314246 - 10612723 | | TRUE | FALSE |
| 9 | 8314246 - 10612723 | F - 12.00% | FALSE | TRUE |
| 9 | 8314246 - 10612723 | F - 12.00% | FALSE | TRUE |
| 9 | 8314246 - 10612723 | F - 8.00% | TRUE | TRUE |
| 9 | 8314246 - 10612723 | F - 12.00% | FALSE | TRUE |
| 9 | 8314246 - 10612723 | F - 12.00% | FALSE | TRUE |
| 9 | 8314246 - 10612723 | F - 4.00% | FALSE | TRUE |

| | | | | |
|--------------|-----------------------|------------|-------|-------|
| 9 | 8314246 - 10612723 | | FALSE | TRUE |
| 15 | 100511643 - 100882210 | F - 20.00% | TRUE | FALSE |
| 15 | 100511643 - 100882210 | | TRUE | TRUE |
| 15 | 100511643 - 100882210 | | FALSE | TRUE |
| 16 | 22018959 - 22098855 | | TRUE | FALSE |
| 16 | 22018959 - 22098855 | | TRUE | FALSE |
| 16 | 22018959 - 22098855 | F - 33.33% | TRUE | TRUE |
| 16 | 22018959 - 22098855 | | FALSE | TRUE |
| 16 | 22018959 - 22098855 | F - 16.67% | TRUE | TRUE |
| 16 | 22018959 - 22098855 | F - 33.33% | TRUE | TRUE |
| 16 | 22018959 - 22098855 | | TRUE | TRUE |
| 17_ctg5_hap1 | 1448483 - 1493796 | | TRUE | TRUE |
| 17_ctg5_hap1 | 1448483 - 1493796 | F - 16.67% | TRUE | TRUE |
| 17_ctg5_hap1 | 1448483 - 1493796 | | TRUE | TRUE |
| 17_ctg5_hap1 | 1448483 - 1493796 | | TRUE | TRUE |
| 17_ctg5_hap1 | 1448483 - 1493796 | | TRUE | TRUE |
| 21 | 34804792 - 34853499 | | TRUE | TRUE |
| 21 | 34804792 - 34853499 | F - 23.53% | TRUE | TRUE |
| 21 | 34804792 - 34853499 | T - 52.94% | TRUE | TRUE |
| 21 | 34804792 - 34853499 | F - 35.29% | TRUE | TRUE |
| 21 | 34804792 - 34853499 | F - 5.88% | FALSE | TRUE |
| 1 | 16450832 - 16482582 | | TRUE | TRUE |
| 1 | 16450832 - 16482582 | F - 16.67% | TRUE | TRUE |
| 1 | 240931554 - 241520530 | | TRUE | TRUE |
| 1 | 240931554 - 241520530 | | TRUE | FALSE |
| 1 | 240931554 - 241520530 | | TRUE | TRUE |
| 1 | 240931554 - 241520530 | T - 61.11% | TRUE | TRUE |
| 1 | 240931554 - 241520530 | | TRUE | TRUE |
| 1 | 240931554 - 241520530 | F - 11.11% | FALSE | TRUE |
| 1 | 240931554 - 241520530 | T - 83.33% | FALSE | TRUE |
| 1 | 240931554 - 241520530 | T - 83.33% | TRUE | TRUE |
| 2 | 62900986 - 63273622 | | TRUE | TRUE |
| 2 | 62900986 - 63273622 | F - 44.83% | TRUE | TRUE |
| 2 | 62900986 - 63273622 | | TRUE | TRUE |
| 2 | 62900986 - 63273622 | F - 3.45% | FALSE | TRUE |
| 2 | 62900986 - 63273622 | | TRUE | TRUE |
| 2 | 16730727 - 16847599 | F - 11.11% | TRUE | FALSE |
| 2 | 16730727 - 16847599 | F - 11.11% | TRUE | TRUE |
| 2 | 16730727 - 16847599 | F - 11.11% | TRUE | TRUE |
| 2 | 16730727 - 16847599 | | TRUE | TRUE |
| 2 | 24299396 - 24397519 | F - 42.86% | TRUE | TRUE |
| 2 | 24299396 - 24397519 | | TRUE | TRUE |
| 2 | 24299396 - 24397519 | | TRUE | TRUE |
| 2 | 24299396 - 24397519 | F - 42.86% | TRUE | TRUE |
| 2 | 24299396 - 24397519 | | TRUE | TRUE |
| 2 | 24299396 - 24397519 | | FALSE | TRUE |
| 2 | 24299396 - 24397519 | | TRUE | TRUE |
| 2 | 24299396 - 24397519 | | FALSE | TRUE |
| 6 | 24650205 - 24667261 | | TRUE | TRUE |
| 6 | 24650205 - 24667261 | F - 10.00% | TRUE | TRUE |
| 6 | 24650205 - 24667261 | F - 10.00% | FALSE | TRUE |
| 7 | 102004308 - 102067129 | | TRUE | TRUE |
| 7 | 102004308 - 102067129 | F - 10.53% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | FALSE |
| 7 | 137073563 - 137531838 | F - 6.67% | TRUE | FALSE |
| 7 | 137073563 - 137531838 | T - 53.33% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | TRUE |
| 7 | 137073563 - 137531838 | T - 53.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 137073563 - 137531838 | F - 20.00% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | T - 53.33% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | TRUE |
| 7 | 137073563 - 137531838 | F - 6.67% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | TRUE |
| 7 | 137073563 - 137531838 | T - 53.33% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | TRUE |
| 7 | 137073563 - 137531838 | F - 46.67% | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | TRUE | TRUE |
| 7 | 137073563 - 137531838 | | FALSE | TRUE |
| 7 | 137073563 - 137531838 | F - 40.00% | TRUE | TRUE |
| 8 | 94710789 - 94743755 | | TRUE | TRUE |
| 8 | 94710789 - 94743755 | F - 7.14% | TRUE | FALSE |
| 8 | 94710789 - 94743755 | F - 3.57% | FALSE | TRUE |
| 8 | 94710789 - 94743755 | F - 3.57% | FALSE | TRUE |
| 9 | 97861336 - 98079991 | F - 6.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | F - 6.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | F - 6.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | | TRUE | TRUE |
| 9 | 97861336 - 98079991 | F - 31.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | F - 6.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | F - 31.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | T - 56.25% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | T - 50.00% | TRUE | TRUE |
| 9 | 97861336 - 98079991 | F - 12.50% | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | F - 11.11% | FALSE | TRUE |
| 10 | 100143322 - 100174978 | | FALSE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | TRUE | TRUE |
| 10 | 100143322 - 100174978 | | FALSE | TRUE |
| 10 | 100143322 - 100174978 | F - 11.11% | TRUE | TRUE |
| 10 | 100143322 - 100174978 | F - 11.11% | TRUE | TRUE |
| 10 | 100143322 - 100174978 | F - 11.11% | TRUE | TRUE |
| 10 | 100143322 - 100174978 | F - 22.22% | TRUE | TRUE |
| 11 | 66512207 - 66610987 | | TRUE | FALSE |
| 11 | 66512207 - 66610987 | | TRUE | TRUE |
| 11 | 66512207 - 66610987 | T - 72.73% | TRUE | TRUE |
| 11 | 66512207 - 66610987 | | TRUE | TRUE |
| 11 | 66512207 - 66610987 | F - 27.27% | TRUE | TRUE |
| 11 | 66512207 - 66610987 | T - 81.82% | TRUE | TRUE |
| 13 | 45006279 - 45151283 | | TRUE | TRUE |
| 13 | 45006279 - 45151283 | F - 5.88% | TRUE | TRUE |
| 13 | 45006279 - 45151283 | F - 5.88% | TRUE | TRUE |
| 13 | 45006279 - 45151283 | | TRUE | TRUE |
| 13 | 45006279 - 45151283 | F - 17.65% | FALSE | TRUE |
| 13 | 45006279 - 45151283 | F - 23.53% | TRUE | TRUE |
| 15 | 55831082 - 55881145 | | TRUE | TRUE |
| 15 | 55831082 - 55881145 | T - 50.00% | TRUE | TRUE |
| 15 | 55831082 - 55881145 | F - 16.67% | TRUE | TRUE |
| 15 | 55831082 - 55881145 | F - 16.67% | TRUE | TRUE |
| 17 | 79523913 - 79616376 | | TRUE | FALSE |
| 17 | 79523913 - 79616376 | F - 10.00% | TRUE | TRUE |
| 17 | 79523913 - 79616376 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 20 | 44994688 - 45061704 | F - 9.38% | TRUE | TRUE |
| 20 | 44994688 - 45061704 | | TRUE | FALSE |
| 20 | 44994688 - 45061704 | | TRUE | TRUE |
| 20 | 44994688 - 45061704 | | TRUE | TRUE |
| 20 | 44994688 - 45061704 | | TRUE | TRUE |
| 20 | 44994688 - 45061704 | | TRUE | TRUE |
| 20 | 44994688 - 45061704 | | TRUE | TRUE |
| 1 | 210851657 - 211307457 | | TRUE | TRUE |
| 1 | 210851657 - 211307457 | T - 100.00% | TRUE | TRUE |
| 1 | 210851657 - 211307457 | F - 33.33% | TRUE | TRUE |
| 1 | 210851657 - 211307457 | T - 83.33% | TRUE | TRUE |
| 1 | 210851657 - 211307457 | | TRUE | TRUE |
| 1 | 210851657 - 211307457 | | TRUE | TRUE |
| 1 | 210851657 - 211307457 | T - 50.00% | TRUE | TRUE |
| 6 | 33267471 - 33282164 | | TRUE | FALSE |
| 6 | 33267471 - 33282164 | T - 58.82% | TRUE | TRUE |
| 7 | 64330550 - 64391955 | | TRUE | FALSE |
| 7 | 64330550 - 64391955 | | TRUE | FALSE |
| 7 | 64330550 - 64391955 | F - 21.43% | TRUE | TRUE |
| 7 | 64330550 - 64391955 | F - 14.29% | TRUE | TRUE |
| 9 | 135973107 - 136024721 | F - 22.22% | TRUE | FALSE |
| 9 | 135973107 - 136024721 | | TRUE | TRUE |
| 9 | 135973107 - 136024721 | F - 14.81% | TRUE | TRUE |
| 9 | 135973107 - 136024721 | F - 3.70% | TRUE | TRUE |
| 9 | 135973107 - 136024721 | F - 25.93% | TRUE | TRUE |
| 9 | 135973107 - 136024721 | F - 3.70% | TRUE | TRUE |
| 9 | 135973107 - 136024721 | F - 7.41% | FALSE | TRUE |
| 12 | 6643093 - 6647537 | | TRUE | TRUE |
| 12 | 6643093 - 6647537 | | TRUE | TRUE |
| 12 | 6643093 - 6647537 | F - 4.55% | TRUE | TRUE |
| 12 | 6643093 - 6647537 | T - 86.36% | TRUE | TRUE |
| 12 | 6643093 - 6647537 | F - 18.18% | TRUE | TRUE |
| 16 | 75032915 - 75144892 | T - 57.14% | TRUE | TRUE |
| 16 | 75032915 - 75144892 | | FALSE | TRUE |
| 16 | 75032915 - 75144892 | F - 14.29% | FALSE | TRUE |
| 16 | 75032915 - 75144892 | F - 28.57% | TRUE | TRUE |
| 18 | 43664110 - 43684300 | F - 5.56% | TRUE | TRUE |
| 18 | 43664110 - 43684300 | | TRUE | TRUE |
| 4 | 24519064 - 24586184 | | TRUE | TRUE |
| 4 | 24519064 - 24586184 | F - 33.33% | TRUE | TRUE |
| 4 | 24519064 - 24586184 | F - 6.67% | TRUE | TRUE |
| 4 | 24519064 - 24586184 | | TRUE | FALSE |
| 4 | 109731877 - 110223813 | | TRUE | FALSE |
| 4 | 109731877 - 110223813 | T - 80.95% | TRUE | TRUE |
| 4 | 109731877 - 110223813 | | TRUE | FALSE |
| 4 | 109731877 - 110223813 | | TRUE | TRUE |
| 4 | 109731877 - 110223813 | T - 80.95% | FALSE | TRUE |
| 7 | 116312248 - 116438440 | | TRUE | FALSE |
| 7 | 116312248 - 116438440 | | TRUE | TRUE |
| 7 | 116312248 - 116438440 | F - 11.54% | TRUE | TRUE |
| 9 | 139607022 - 139619170 | | TRUE | TRUE |
| 9 | 139607022 - 139619170 | F - 40.00% | TRUE | TRUE |
| 14 | 23456110 - 23479375 | T - 68.42% | TRUE | FALSE |
| 14 | 23456110 - 23479375 | F - 31.58% | TRUE | TRUE |
| 14 | 23456110 - 23479375 | | TRUE | FALSE |
| 19 | 57285920 - 57352097 | | TRUE | FALSE |
| 19 | 57285920 - 57352097 | T - 95.65% | TRUE | TRUE |
| 19 | 57285920 - 57352097 | | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|-------------|-------|-------|
| | 19 | 57285920 - 57352097 | F - 39.13% | TRUE | TRUE |
| | 19 | 57285920 - 57352097 | | FALSE | TRUE |
| | 19 | 57285920 - 57352097 | T - 100.00% | FALSE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | TRUE | FALSE |
| 6_cox_hap2 | | 3459557 - 3473846 | T - 56.52% | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | FALSE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | F - 4.35% | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | F - 4.35% | FALSE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | F - 47.83% | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | FALSE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | TRUE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | FALSE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | FALSE | TRUE |
| 6_cox_hap2 | | 3459557 - 3473846 | | FALSE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | TRUE | FALSE |
| 6_dbb_hap3 | | 3268122 - 3282411 | T - 56.52% | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | FALSE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | F - 4.35% | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | F - 4.35% | FALSE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | F - 47.83% | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | FALSE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | TRUE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | FALSE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | FALSE | TRUE |
| 6_dbb_hap3 | | 3268122 - 3282411 | | FALSE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | TRUE | FALSE |
| 6_qbl_hap6 | | 3243591 - 3264249 | T - 56.52% | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | FALSE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | F - 4.35% | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | F - 4.35% | FALSE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | F - 47.83% | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | FALSE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | FALSE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | FALSE | TRUE |
| 6_qbl_hap6 | | 3243591 - 3264249 | | FALSE | TRUE |
| 3 | | 113547029 - 113666021 | F - 4.17% | TRUE | TRUE |
| 3 | | 113547029 - 113666021 | F - 8.33% | TRUE | TRUE |
| 3 | | 113547029 - 113666021 | | TRUE | FALSE |
| 3 | | 113547029 - 113666021 | | TRUE | TRUE |
| 3 | | 113547029 - 113666021 | F - 4.17% | FALSE | TRUE |
| 3 | | 113547029 - 113666021 | T - 66.67% | FALSE | TRUE |
| 3 | | 113547029 - 113666021 | T - 58.33% | TRUE | TRUE |
| 4 | | 140222609 - 140341187 | | TRUE | TRUE |
| 4 | | 140222609 - 140341187 | F - 27.27% | TRUE | TRUE |
| 4 | | 140222609 - 140341187 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 69345350 - 69374349 | | TRUE | TRUE |
| 5 | 69345350 - 69374349 | | TRUE | FALSE |
| 5 | 69345350 - 69374349 | F - 37.50% | TRUE | TRUE |
| 5 | 69345350 - 69374349 | | TRUE | TRUE |
| 5 | 1050489 - 1112172 | | TRUE | TRUE |
| 5 | 1050489 - 1112172 | F - 12.50% | FALSE | TRUE |
| 5 | 1050489 - 1112172 | | TRUE | TRUE |
| 5 | 1050489 - 1112172 | F - 12.50% | TRUE | TRUE |
| 5 | 1050489 - 1112172 | | TRUE | TRUE |
| 5 | 1050489 - 1112172 | T - 50.00% | TRUE | TRUE |
| 5 | 1050489 - 1112172 | | FALSE | TRUE |
| 5 | 1050489 - 1112172 | | TRUE | TRUE |
| 5 | 1050489 - 1112172 | | FALSE | TRUE |
| 5 | 16662016 - 16936385 | | TRUE | TRUE |
| 5 | 16662016 - 16936385 | F - 18.18% | TRUE | TRUE |
| 5 | 16662016 - 16936385 | | TRUE | TRUE |
| 5 | 16662016 - 16936385 | F - 4.55% | FALSE | TRUE |
| 5 | 16662016 - 16936385 | F - 4.55% | TRUE | TRUE |
| 5 | 16662016 - 16936385 | F - 4.55% | TRUE | TRUE |
| 5 | 16662016 - 16936385 | F - 45.45% | TRUE | TRUE |
| 7 | 155437145 - 155574179 | F - 23.08% | TRUE | TRUE |
| 7 | 155437145 - 155574179 | F - 7.69% | TRUE | FALSE |
| 7 | 155437145 - 155574179 | F - 7.69% | TRUE | TRUE |
| 7 | 155437145 - 155574179 | F - 7.69% | TRUE | TRUE |
| 7 | 155437145 - 155574179 | | TRUE | TRUE |
| 7 | 155437145 - 155574179 | | TRUE | TRUE |
| 7 | 155437145 - 155574179 | F - 23.08% | TRUE | TRUE |
| 7 | 155437145 - 155574179 | | TRUE | TRUE |
| 7 | 155437145 - 155574179 | F - 38.46% | TRUE | TRUE |
| 7 | 155437145 - 155574179 | F - 7.69% | FALSE | TRUE |
| 7 | 155437145 - 155574179 | | TRUE | TRUE |
| 8 | 74332604 - 74659943 | | TRUE | FALSE |
| 8 | 74332604 - 74659943 | F - 18.52% | TRUE | TRUE |
| 9 | 69204538 - 69272478 | | TRUE | TRUE |
| 9 | 69204538 - 69272478 | | TRUE | FALSE |
| 9 | 69204538 - 69272478 | F - 7.69% | TRUE | TRUE |
| 9 | 69204538 - 69272478 | F - 34.62% | TRUE | TRUE |
| 9 | 69204538 - 69272478 | F - 3.85% | TRUE | TRUE |
| 9 | 69204538 - 69272478 | F - 19.23% | TRUE | TRUE |
| 9 | 69204538 - 69272478 | | TRUE | TRUE |
| 9 | 69204538 - 69272478 | F - 7.69% | TRUE | TRUE |
| 9 | 69204538 - 69272478 | | FALSE | TRUE |
| X | 153051221 - 153059978 | | TRUE | TRUE |
| X | 153051221 - 153059978 | F - 5.00% | TRUE | TRUE |
| 14 | 69658194 - 69710737 | | TRUE | TRUE |
| 14 | 69658194 - 69710737 | F - 34.78% | TRUE | TRUE |
| 14 | 53106634 - 53162432 | T - 100.00% | TRUE | TRUE |
| 14 | 53106634 - 53162432 | T - 75.00% | TRUE | TRUE |
| 14 | 53106634 - 53162432 | T - 100.00% | FALSE | TRUE |
| 14 | 53106634 - 53162432 | | TRUE | TRUE |
| 15 | 32933870 - 32989299 | | TRUE | TRUE |
| 15 | 32933870 - 32989299 | T - 69.23% | TRUE | TRUE |
| 15 | 32933870 - 32989299 | T - 61.54% | FALSE | TRUE |
| 15 | 32933870 - 32989299 | F - 15.38% | FALSE | TRUE |
| 17 | 80693452 - 80709073 | F - 40.00% | TRUE | TRUE |
| 17 | 80693452 - 80709073 | | TRUE | FALSE |
| 17 | 80693452 - 80709073 | F - 40.00% | TRUE | TRUE |
| 17 | 80693452 - 80709073 | F - 20.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 17 | 80693452 - 80709073 | | TRUE | TRUE |
| 17 | 80693452 - 80709073 | F - 20.00% | TRUE | TRUE |
| 17 | 3907739 - 4046314 | F - 12.50% | TRUE | TRUE |
| 17 | 3907739 - 4046314 | | TRUE | TRUE |
| 17 | 3907739 - 4046314 | | TRUE | TRUE |
| 17 | 3907739 - 4046314 | | TRUE | TRUE |
| 17 | 3907739 - 4046314 | | TRUE | TRUE |
| 19 | 17434032 - 17445638 | | TRUE | TRUE |
| 19 | 17434032 - 17445638 | | TRUE | TRUE |
| 19 | 17434032 - 17445638 | | TRUE | TRUE |
| 19 | 17434032 - 17445638 | | TRUE | TRUE |
| 19 | 17434032 - 17445638 | T - 100.00% | TRUE | TRUE |
| 19 | 17434032 - 17445638 | | FALSE | TRUE |
| 3 | 12328867 - 12475855 | | TRUE | FALSE |
| 3 | 12328867 - 12475855 | | TRUE | FALSE |
| 3 | 12328867 - 12475855 | T - 87.50% | TRUE | TRUE |
| 3 | 12328867 - 12475855 | F - 8.33% | TRUE | TRUE |
| 3 | 12328867 - 12475855 | F - 16.67% | TRUE | TRUE |
| 3 | 12328867 - 12475855 | F - 25.00% | FALSE | TRUE |
| 3 | 12328867 - 12475855 | | TRUE | TRUE |
| 3 | 12328867 - 12475855 | F - 16.67% | TRUE | TRUE |
| 3 | 12328867 - 12475855 | F - 20.83% | FALSE | TRUE |
| 3 | 12328867 - 12475855 | F - 29.17% | FALSE | TRUE |
| 3 | 12328867 - 12475855 | F - 8.33% | FALSE | TRUE |
| 3 | 12328867 - 12475855 | | FALSE | TRUE |
| 3 | 122283085 - 122294050 | | TRUE | TRUE |
| 3 | 122283085 - 122294050 | F - 14.29% | TRUE | TRUE |
| 3 | 127391778 - 127399769 | | TRUE | TRUE |
| 3 | 127391778 - 127399769 | F - 18.18% | TRUE | FALSE |
| 3 | 127391778 - 127399769 | | TRUE | TRUE |
| 3 | 127391778 - 127399769 | | TRUE | TRUE |
| 3 | 127391778 - 127399769 | | TRUE | TRUE |
| 3 | 127391778 - 127399769 | | TRUE | TRUE |
| 3 | 127391778 - 127399769 | F - 13.64% | TRUE | TRUE |
| 3 | 127391778 - 127399769 | F - 4.55% | TRUE | TRUE |
| 5 | 43289493 - 43313614 | | TRUE | FALSE |
| 5 | 43289493 - 43313614 | T - 50.00% | TRUE | TRUE |
| 6 | 166322290 - 166401527 | | TRUE | TRUE |
| 6 | 166322290 - 166401527 | F - 20.00% | FALSE | TRUE |
| 8 | 72740402 - 73030628 | | TRUE | FALSE |
| 8 | 72740402 - 73030628 | F - 7.14% | TRUE | TRUE |
| 8 | 72740402 - 73030628 | | TRUE | TRUE |
| 8 | 72740402 - 73030628 | F - 7.14% | TRUE | TRUE |
| 8 | 72740402 - 73030628 | | FALSE | TRUE |
| 8 | 33405273 - 33424643 | T - 50.00% | TRUE | TRUE |
| 8 | 33405273 - 33424643 | | TRUE | TRUE |
| 8 | 33405273 - 33424643 | T - 100.00% | TRUE | TRUE |
| 9 | 15552872 - 16061661 | T - 52.38% | TRUE | TRUE |
| 9 | 15552872 - 16061661 | | TRUE | FALSE |
| 9 | 15552872 - 16061661 | | TRUE | TRUE |
| 9 | 15552872 - 16061661 | | TRUE | TRUE |
| 9 | 15552872 - 16061661 | | FALSE | TRUE |
| 17 | 21187968 - 21218552 | F - 12.50% | TRUE | TRUE |
| 17 | 21187968 - 21218552 | | FALSE | TRUE |
| 17 | 21187968 - 21218552 | | TRUE | TRUE |
| 17 | 21187968 - 21218552 | | TRUE | TRUE |
| 17 | 21187968 - 21218552 | | FALSE | TRUE |
| 17 | 21187968 - 21218552 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 17 | 21187968 - 21218552 | | TRUE | TRUE |
| 17 | 6481645 - 6544247 | | TRUE | TRUE |
| 17 | 6481645 - 6544247 | | TRUE | TRUE |
| 17 | 6481645 - 6544247 | T - 100.00% | TRUE | TRUE |
| 17 | 6481645 - 6544247 | | TRUE | TRUE |
| 19 | 34855645 - 34893318 | F - 12.50% | TRUE | TRUE |
| 19 | 34855645 - 34893318 | F - 12.50% | TRUE | TRUE |
| 19 | 34855645 - 34893318 | | TRUE | TRUE |
| 19 | 34855645 - 34893318 | F - 25.00% | TRUE | TRUE |
| 19 | 34855645 - 34893318 | F - 25.00% | TRUE | TRUE |
| 19 | 34855645 - 34893318 | F - 25.00% | TRUE | TRUE |
| 19 | 34855645 - 34893318 | | TRUE | TRUE |
| 22 | 23980675 - 24059610 | | TRUE | FALSE |
| 22 | 23980675 - 24059610 | | TRUE | TRUE |
| 22 | 23980675 - 24059610 | | TRUE | TRUE |
| 22 | 23980675 - 24059610 | F - 20.00% | TRUE | TRUE |
| 22 | 23980675 - 24059610 | | TRUE | TRUE |
| 22 | 23980675 - 24059610 | | TRUE | TRUE |
| 1 | 231499497 - 231560790 | F - 25.00% | TRUE | TRUE |
| 1 | 231499497 - 231560790 | | TRUE | TRUE |
| 4 | 53179 - 196092 | F - 6.67% | TRUE | TRUE |
| 4 | 53179 - 196092 | | TRUE | TRUE |
| 4 | 53179 - 196092 | F - 13.33% | TRUE | TRUE |
| 4 | 53179 - 196092 | F - 20.00% | TRUE | TRUE |
| 4 | 53179 - 196092 | | FALSE | TRUE |
| 5 | 132028323 - 132073330 | | TRUE | FALSE |
| 5 | 132028323 - 132073330 | F - 46.67% | TRUE | TRUE |
| 5 | 132028323 - 132073330 | | TRUE | TRUE |
| 5 | 132028323 - 132073330 | | FALSE | TRUE |
| 6 | 144606837 - 145174170 | | TRUE | TRUE |
| 6 | 144606837 - 145174170 | F - 27.78% | TRUE | TRUE |
| 6 | 144606837 - 145174170 | F - 5.56% | TRUE | TRUE |
| 6 | 144606837 - 145174170 | | TRUE | TRUE |
| 6 | 144606837 - 145174170 | F - 5.56% | TRUE | TRUE |
| 6 | 144606837 - 145174170 | | TRUE | TRUE |
| 6 | 144606837 - 145174170 | | TRUE | TRUE |
| 6 | 144606837 - 145174170 | F - 11.11% | TRUE | TRUE |
| 6 | 144606837 - 145174170 | | FALSE | TRUE |
| 9 | 131581930 - 131592100 | T - 83.33% | TRUE | TRUE |
| 9 | 131581930 - 131592100 | | TRUE | TRUE |
| 9 | 131581930 - 131592100 | | TRUE | TRUE |
| 11 | 15987995 - 16760190 | | TRUE | FALSE |
| 11 | 15987995 - 16760190 | | TRUE | FALSE |
| 11 | 15987995 - 16760190 | F - 14.29% | TRUE | TRUE |
| 11 | 15987995 - 16760190 | | TRUE | FALSE |
| 11 | 15987995 - 16760190 | F - 7.14% | TRUE | TRUE |
| 11 | 15987995 - 16760190 | | TRUE | TRUE |
| 11 | 15987995 - 16760190 | F - 21.43% | TRUE | TRUE |
| 14 | 95883831 - 95942173 | | TRUE | TRUE |
| 14 | 95883831 - 95942173 | | TRUE | FALSE |
| 14 | 95883831 - 95942173 | | TRUE | TRUE |
| 14 | 95883831 - 95942173 | | TRUE | TRUE |
| 14 | 95883831 - 95942173 | T - 100.00% | TRUE | TRUE |
| 16 | 3692939 - 3713727 | | TRUE | TRUE |
| 16 | 3692939 - 3713727 | | TRUE | TRUE |
| 16 | 3692939 - 3713727 | | FALSE | TRUE |
| 16 | 3692939 - 3713727 | T - 100.00% | TRUE | TRUE |
| 16 | 3692939 - 3713727 | | FALSE | TRUE |

| | | | | | |
|-------------|----|-----------------------|-------------|-------|-------|
| | 16 | 3692939 - 3713727 | | FALSE | TRUE |
| | 19 | 5587010 - 5622938 | | TRUE | FALSE |
| | 19 | 5587010 - 5622938 | | TRUE | TRUE |
| | 19 | 5587010 - 5622938 | T - 77.78% | TRUE | TRUE |
| | 19 | 5587010 - 5622938 | | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 5.00% | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 5.00% | FALSE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | | FALSE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 35.00% | FALSE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 5.00% | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | | FALSE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 10.00% | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 5.00% | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | F - 25.00% | TRUE | TRUE |
| 6_ssto_hap7 | | 1028372 - 1044729 | | TRUE | TRUE |
| | 1 | 153232176 - 153234600 | T - 50.00% | TRUE | FALSE |
| | 1 | 153232176 - 153234600 | | TRUE | TRUE |
| | 1 | 153232176 - 153234600 | T - 100.00% | TRUE | TRUE |
| | 1 | 178694300 - 179065553 | | TRUE | TRUE |
| | 1 | 178694300 - 179065553 | F - 7.69% | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | F - 8.33% | TRUE | FALSE |
| | 1 | 209788218 - 209825820 | | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | F - 8.33% | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | T - 83.33% | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | T - 83.33% | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | F - 25.00% | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | T - 83.33% | TRUE | TRUE |
| | 1 | 209788218 - 209825820 | | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | T - 75.00% | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | F - 33.33% | FALSE | TRUE |
| | 1 | 209788218 - 209825820 | | FALSE | TRUE |
| | 2 | 111395275 - 111435691 | | TRUE | TRUE |
| | 2 | 111395275 - 111435691 | | TRUE | TRUE |
| | 2 | 111395275 - 111435691 | F - 5.56% | TRUE | TRUE |
| | 2 | 111395275 - 111435691 | | TRUE | TRUE |
| | 2 | 111395275 - 111435691 | T - 66.67% | FALSE | TRUE |
| | 2 | 111395275 - 111435691 | | TRUE | TRUE |
| | 2 | 111395275 - 111435691 | T - 72.22% | TRUE | TRUE |
| | 2 | 111395275 - 111435691 | | FALSE | TRUE |
| | 3 | 3841121 - 3889387 | F - 40.00% | TRUE | TRUE |
| | 3 | 3841121 - 3889387 | | TRUE | TRUE |
| | 3 | 3841121 - 3889387 | | TRUE | TRUE |
| | 7 | 65425671 - 65447301 | | TRUE | TRUE |
| | 7 | 65425671 - 65447301 | | TRUE | TRUE |
| | 7 | 65425671 - 65447301 | F - 19.05% | TRUE | TRUE |
| | 7 | 65425671 - 65447301 | F - 4.76% | TRUE | TRUE |
| | 7 | 65425671 - 65447301 | | TRUE | TRUE |
| | 7 | 65425671 - 65447301 | | TRUE | TRUE |
| X | | 79924987 - 80065233 | F - 4.76% | TRUE | TRUE |

| | | | | |
|---|--------------------------|-------------|-------|-------|
| X | 79924987 - 80065233 | F - 4.76% | TRUE | TRUE |
| X | 79924987 - 80065233 | T - 76.19% | FALSE | TRUE |
| X | 79924987 - 80065233 | | TRUE | TRUE |
| X | 79924987 - 80065233 | | TRUE | TRUE |
| X | 79924987 - 80065233 | | FALSE | TRUE |
| X | 15402921 - 15511711 | | TRUE | TRUE |
| X | 15402921 - 15511711 | F - 11.11% | TRUE | TRUE |
| X | 15402921 - 15511711 | F - 11.11% | FALSE | TRUE |
| X | 15402921 - 15511711 | T - 66.67% | FALSE | TRUE |
| X | 15402921 - 15511711 | F - 44.44% | FALSE | TRUE |
| X | 15402921 - 15511711 | | TRUE | TRUE |
| X | 15402921 - 15511711 | | FALSE | TRUE |
| X | 15402921 - 15511711 | | TRUE | TRUE |
| X | 15402921 - 15511711 | | TRUE | TRUE |
| X | 15402921 - 15511711 | | FALSE | TRUE |
| X | 15402921 - 15511711 | T - 77.78% | TRUE | TRUE |
| X | 15402921 - 15511711 | | TRUE | TRUE |
| | 10 103544200 - 103578700 | | TRUE | FALSE |
| | 10 103544200 - 103578700 | | TRUE | FALSE |
| | 10 103544200 - 103578700 | | TRUE | TRUE |
| | 10 103544200 - 103578700 | | TRUE | TRUE |
| | 10 103544200 - 103578700 | T - 55.00% | TRUE | TRUE |
| | 11 68080077 - 68216743 | F - 20.00% | TRUE | TRUE |
| | 11 68080077 - 68216743 | | TRUE | TRUE |
| | 11 68080077 - 68216743 | | TRUE | TRUE |
| | 11 68080077 - 68216743 | | FALSE | TRUE |
| | 11 68080077 - 68216743 | F - 20.00% | TRUE | TRUE |
| | 11 68080077 - 68216743 | | TRUE | TRUE |
| | 11 68080077 - 68216743 | | TRUE | TRUE |
| | 11 68080077 - 68216743 | T - 60.00% | TRUE | TRUE |
| | 11 68080077 - 68216743 | F - 20.00% | TRUE | TRUE |
| | 11 68080077 - 68216743 | T - 80.00% | TRUE | TRUE |
| | 11 68080077 - 68216743 | | TRUE | TRUE |
| | 11 68080077 - 68216743 | | FALSE | TRUE |
| | 15 101419581 - 101456831 | | TRUE | FALSE |
| | 15 101419581 - 101456831 | T - 75.00% | TRUE | TRUE |
| | 15 101419581 - 101456831 | | TRUE | FALSE |
| | 15 101419581 - 101456831 | | TRUE | FALSE |
| | 15 101419581 - 101456831 | T - 62.50% | TRUE | TRUE |
| | 15 101419581 - 101456831 | | TRUE | TRUE |
| | 15 101419581 - 101456831 | T - 100.00% | TRUE | TRUE |
| | 15 101419581 - 101456831 | T - 62.50% | TRUE | TRUE |
| | 15 101419581 - 101456831 | F - 37.50% | TRUE | TRUE |
| | 15 101419581 - 101456831 | F - 12.50% | TRUE | TRUE |
| | 15 101419581 - 101456831 | T - 87.50% | TRUE | TRUE |
| | 15 101419581 - 101456831 | F - 12.50% | TRUE | TRUE |
| | 15 101419581 - 101456831 | | TRUE | TRUE |
| | 15 101419581 - 101456831 | F - 12.50% | FALSE | TRUE |
| | 15 101419581 - 101456831 | | FALSE | TRUE |
| | 15 101419581 - 101456831 | | TRUE | TRUE |
| | 16 27413483 - 27463363 | T - 100.00% | TRUE | FALSE |
| | 16 27413483 - 27463363 | | TRUE | TRUE |
| | 16 27413483 - 27463363 | | TRUE | TRUE |
| | 16 57023410 - 57117436 | | TRUE | FALSE |
| | 16 57023410 - 57117436 | | TRUE | TRUE |
| | 16 57023410 - 57117436 | | TRUE | TRUE |
| | 16 57023410 - 57117436 | T - 64.71% | TRUE | TRUE |
| | 16 57023410 - 57117436 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 16 | 57023410 - 57117436 | T - 52.94% | TRUE | TRUE |
| 16 | 57023410 - 57117436 | | TRUE | FALSE |
| 16 | 57023410 - 57117436 | T - 76.47% | TRUE | TRUE |
| 16 | 57023410 - 57117436 | | TRUE | TRUE |
| 16 | 57023410 - 57117436 | | TRUE | TRUE |
| 16 | 57023410 - 57117436 | | TRUE | TRUE |
| 16 | 57023410 - 57117436 | F - 35.29% | TRUE | TRUE |
| 20 | 33814457 - 33864804 | | TRUE | TRUE |
| 20 | 33814457 - 33864804 | | TRUE | FALSE |
| 20 | 33814457 - 33864804 | T - 100.00% | TRUE | TRUE |
| 20 | 33814457 - 33864804 | | TRUE | TRUE |
| 20 | 33814457 - 33864804 | T - 75.00% | TRUE | TRUE |
| 20 | 33814457 - 33864804 | F - 25.00% | TRUE | TRUE |
| 20 | 46585043 - 46589679 | | TRUE | FALSE |
| 20 | 46585043 - 46589679 | T - 100.00% | TRUE | TRUE |
| 1 | 209859510 - 209908295 | F - 14.29% | TRUE | TRUE |
| 1 | 209859510 - 209908295 | T - 100.00% | TRUE | TRUE |
| 1 | 209859510 - 209908295 | | TRUE | TRUE |
| 1 | 209859510 - 209908295 | | TRUE | TRUE |
| 1 | 24171567 - 24194859 | | TRUE | TRUE |
| 1 | 24171567 - 24194859 | F - 16.67% | TRUE | TRUE |
| 1 | 24171567 - 24194859 | T - 83.33% | TRUE | TRUE |
| 1 | 24171567 - 24194859 | | FALSE | TRUE |
| 1 | 24171567 - 24194859 | T - 83.33% | TRUE | TRUE |
| 1 | 24171567 - 24194859 | T - 100.00% | TRUE | TRUE |
| 1 | 24171567 - 24194859 | T - 100.00% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | F - 6.67% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | F - 6.67% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 66.67% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 60.00% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | F - 46.67% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | F - 46.67% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 60.00% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 53.33% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 66.67% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 60.00% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | T - 53.33% | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | TRUE | TRUE |
| 1 | 103342023 - 103574052 | | FALSE | TRUE |
| 2 | 207308263 - 207485851 | | TRUE | TRUE |
| 2 | 207308263 - 207485851 | F - 27.27% | TRUE | TRUE |
| 2 | 207308263 - 207485851 | | TRUE | FALSE |
| 2 | 207308263 - 207485851 | | TRUE | TRUE |
| 2 | 207308263 - 207485851 | | FALSE | TRUE |
| 6 | 82879700 - 82957471 | | TRUE | FALSE |
| 6 | 82879700 - 82957471 | | TRUE | TRUE |
| 6 | 82879700 - 82957471 | T - 82.35% | TRUE | TRUE |
| 6 | 82879700 - 82957471 | | FALSE | TRUE |

| | | | | |
|------------|---------------------|-------------|-------|-------|
| 6 | 90352218 - 90529442 | | TRUE | TRUE |
| 6 | 90352218 - 90529442 | | TRUE | TRUE |
| 6 | 90352218 - 90529442 | | TRUE | TRUE |
| 6 | 90352218 - 90529442 | | FALSE | TRUE |
| 6 | 90352218 - 90529442 | | FALSE | TRUE |
| 6 | 90352218 - 90529442 | | FALSE | TRUE |
| 6 | 90352218 - 90529442 | | FALSE | TRUE |
| 6 | 90352218 - 90529442 | | FALSE | TRUE |
| 6 | 90352218 - 90529442 | F - 37.50% | FALSE | TRUE |
| 6 | 90352218 - 90529442 | | TRUE | TRUE |
| 6 | 90352218 - 90529442 | | FALSE | TRUE |
| 8 | 16884747 - 16980153 | T - 50.00% | TRUE | TRUE |
| 8 | 16884747 - 16980153 | F - 12.50% | TRUE | TRUE |
| 8 | 16884747 - 16980153 | | FALSE | TRUE |
| 8 | 16884747 - 16980153 | | FALSE | TRUE |
| 12 | 80838126 - 81073968 | | TRUE | FALSE |
| 12 | 80838126 - 81073968 | | TRUE | TRUE |
| 12 | 80838126 - 81073968 | T - 66.67% | TRUE | FALSE |
| 12 | 80838126 - 81073968 | | TRUE | FALSE |
| 12 | 80838126 - 81073968 | | TRUE | TRUE |
| 12 | 80838126 - 81073968 | | FALSE | TRUE |
| 12 | 80838126 - 81073968 | | FALSE | TRUE |
| 12 | 80838126 - 81073968 | | FALSE | TRUE |
| 12 | 80838126 - 81073968 | | FALSE | TRUE |
| 12 | 80838126 - 81073968 | | FALSE | TRUE |
| 16 | 25078258 - 25080275 | | TRUE | TRUE |
| 16 | 25078258 - 25080275 | T - 100.00% | TRUE | TRUE |
| 17 | 43513266 - 43568146 | T - 60.00% | TRUE | TRUE |
| 17 | 43513266 - 43568146 | F - 10.00% | TRUE | TRUE |
| 17 | 43513266 - 43568146 | | TRUE | TRUE |
| 17 | 43513266 - 43568146 | | TRUE | TRUE |
| 17 | 43513266 - 43568146 | F - 40.00% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 43.75% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | T - 62.50% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 6.25% | FALSE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | FALSE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 40.63% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | F - 3.13% | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | | TRUE | TRUE |
| 6_cox_hap2 | 2360850 - 2380033 | T - 71.88% | FALSE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | F - 5.00% | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | | FALSE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | F - 5.00% | FALSE | TRUE |

| | | | | |
|-------------|-------------------------|------------|-------|-------|
| 6_dbb_hap3 | 991434 - 1007847 | F - 10.00% | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | | FALSE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | F - 5.00% | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | F - 25.00% | TRUE | TRUE |
| 6_dbb_hap3 | 991434 - 1007847 | F - 10.00% | FALSE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | F - 5.00% | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | | FALSE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | F - 5.00% | FALSE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | F - 10.00% | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | | FALSE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | F - 5.00% | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | F - 25.00% | TRUE | TRUE |
| 6_mann_hap4 | 991057 - 1007473 | F - 10.00% | FALSE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | F - 5.00% | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | | FALSE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | F - 5.00% | FALSE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | F - 10.00% | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | | FALSE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | F - 5.00% | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | F - 25.00% | TRUE | TRUE |
| 6_qbl_hap6 | 991411 - 1007828 | F - 10.00% | FALSE | TRUE |
| | 1 2252692 - 2323146 | | TRUE | TRUE |
| | 1 2252692 - 2323146 | F - 25.00% | TRUE | FALSE |
| | 1 2252692 - 2323146 | F - 16.67% | TRUE | TRUE |
| | 1 192981496 - 193029237 | F - 4.00% | TRUE | TRUE |
| | 1 192981496 - 193029237 | T - 72.00% | TRUE | TRUE |
| | 1 192981496 - 193029237 | | FALSE | TRUE |
| | 1 192981496 - 193029237 | | FALSE | TRUE |
| | 1 192981496 - 193029237 | | FALSE | TRUE |
| | 3 194075976 - 194090472 | | TRUE | FALSE |
| | 3 194075976 - 194090472 | T - 83.33% | TRUE | TRUE |
| | 3 194075976 - 194090472 | T - 50.00% | TRUE | TRUE |
| | 3 194075976 - 194090472 | T - 66.67% | TRUE | TRUE |
| | 4 124386 - 157779 | | TRUE | FALSE |
| | 4 124386 - 157779 | F - 11.11% | TRUE | TRUE |
| | 4 124386 - 157779 | | TRUE | TRUE |
| | 4 124386 - 157779 | | FALSE | TRUE |
| | 5 70220768 - 70249769 | | TRUE | TRUE |
| | 5 70220768 - 70249769 | | TRUE | FALSE |
| | 5 70220768 - 70249769 | F - 47.62% | TRUE | TRUE |
| | 5 70220768 - 70249769 | | TRUE | TRUE |
| | 6 39760142 - 39872653 | | TRUE | TRUE |
| | 6 39760142 - 39872653 | F - 8.33% | TRUE | TRUE |
| | 7 7196565 - 7288251 | F - 10.00% | TRUE | TRUE |
| | 7 7196565 - 7288251 | | FALSE | TRUE |
| | 7 7196565 - 7288251 | F - 10.00% | TRUE | TRUE |
| | 7 7196565 - 7288251 | F - 10.00% | TRUE | TRUE |
| | 7 7196565 - 7288251 | | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 7 | 143318043 - 143515397 | T - 50.00% | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | F - 10.00% | TRUE | TRUE |
| 7 | 143318043 - 143515397 | F - 5.00% | TRUE | TRUE |
| 7 | 143318043 - 143515397 | F - 30.00% | TRUE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 143318043 - 143515397 | F - 15.00% | FALSE | TRUE |
| 7 | 143318043 - 143515397 | F - 20.00% | TRUE | TRUE |
| 7 | 143318043 - 143515397 | F - 5.00% | TRUE | TRUE |
| 7 | 143318043 - 143515397 | | TRUE | TRUE |
| 7 | 143318043 - 143515397 | | TRUE | TRUE |
| 7 | 143318043 - 143515397 | | FALSE | TRUE |
| 7 | 156473570 - 156685924 | | TRUE | TRUE |
| 7 | 156473570 - 156685924 | F - 3.57% | TRUE | FALSE |
| 7 | 156473570 - 156685924 | | TRUE | TRUE |
| 7 | 156473570 - 156685924 | | TRUE | TRUE |
| 7 | 156473570 - 156685924 | | TRUE | TRUE |
| 7 | 91741463 - 91764117 | | TRUE | FALSE |
| 7 | 91741463 - 91764117 | T - 87.50% | TRUE | TRUE |
| 9 | 128199672 - 128469513 | F - 8.82% | TRUE | TRUE |
| 9 | 128199672 - 128469513 | F - 5.88% | TRUE | TRUE |
| 9 | 128199672 - 128469513 | F - 5.88% | FALSE | TRUE |
| 9 | 128199672 - 128469513 | F - 5.88% | FALSE | TRUE |
| 9 | 128199672 - 128469513 | | FALSE | TRUE |
| 9 | 128199672 - 128469513 | | FALSE | TRUE |
| X | 40486173 - 40506819 | F - 33.33% | TRUE | TRUE |
| X | 40486173 - 40506819 | F - 11.11% | TRUE | TRUE |
| X | 40486173 - 40506819 | F - 33.33% | TRUE | FALSE |
| X | 40486173 - 40506819 | T - 100.00% | TRUE | TRUE |
| X | 40486173 - 40506819 | T - 66.67% | TRUE | TRUE |
| X | 40486173 - 40506819 | | TRUE | TRUE |
| 11 | 68228186 - 68382802 | | TRUE | FALSE |
| 11 | 68228186 - 68382802 | | TRUE | FALSE |
| 11 | 68228186 - 68382802 | | TRUE | FALSE |
| 11 | 68228186 - 68382802 | F - 3.85% | TRUE | TRUE |
| 11 | 68228186 - 68382802 | | TRUE | TRUE |
| 11 | 5640994 - 5687610 | T - 60.00% | TRUE | TRUE |
| 11 | 5640994 - 5687610 | | FALSE | TRUE |
| 14 | 24774302 - 24780655 | F - 10.00% | TRUE | TRUE |
| 14 | 24774302 - 24780655 | | TRUE | TRUE |
| 14 | 24774302 - 24780655 | T - 80.00% | FALSE | TRUE |
| 14 | 24774302 - 24780655 | F - 10.00% | TRUE | TRUE |
| 14 | 24774302 - 24780655 | F - 30.00% | TRUE | TRUE |
| 15 | 36871812 - 37102449 | | TRUE | TRUE |
| 15 | 36871812 - 37102449 | F - 42.86% | TRUE | TRUE |
| 15 | 36871812 - 37102449 | | TRUE | TRUE |
| 15 | 36871812 - 37102449 | | TRUE | TRUE |
| 19 | 45582518 - 45594782 | T - 60.00% | TRUE | TRUE |
| 19 | 45582518 - 45594782 | | TRUE | TRUE |
| 6_mann_hap4 | 4082537 - 4091831 | | TRUE | FALSE |
| 6_mann_hap4 | 4082537 - 4091831 | T - 69.23% | TRUE | TRUE |
| 6_mann_hap4 | 4082537 - 4091831 | F - 7.69% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 6_mcf_hap5 | 3362383 - 3383040 | | TRUE | FALSE |
| 6_mcf_hap5 | 3362383 - 3383040 | T - 56.52% | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | FALSE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | F - 4.35% | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | F - 4.35% | FALSE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | F - 47.83% | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | FALSE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | FALSE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | TRUE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | FALSE | TRUE |
| 6_mcf_hap5 | 3362383 - 3383040 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | TRUE | FALSE |
| 6_ssto_hap7 | 3315249 - 3335906 | T - 56.52% | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | F - 4.35% | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | F - 4.35% | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | F - 47.83% | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | TRUE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3315249 - 3335906 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | TRUE | FALSE |
| 6_ssto_hap7 | 3282511 - 3303168 | T - 56.52% | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | F - 4.35% | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | F - 4.35% | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | F - 47.83% | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | TRUE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 6_ssto_hap7 | 3282511 - 3303168 | | FALSE | TRUE |
| 4 | 120375938 - 120473183 | | TRUE | TRUE |
| 4 | 120375938 - 120473183 | | TRUE | TRUE |
| 4 | 120375938 - 120473183 | | TRUE | TRUE |
| 4 | 120375938 - 120473183 | F - 33.33% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | | TRUE | TRUE |
| 1 | 109792641 - 109818378 | F - 33.33% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | F - 16.67% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | F - 16.67% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | F - 33.33% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | | TRUE | TRUE |
| 1 | 109792641 - 109818378 | F - 33.33% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | | TRUE | TRUE |
| 1 | 109792641 - 109818378 | T - 50.00% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | | TRUE | TRUE |
| 1 | 109792641 - 109818378 | | TRUE | TRUE |
| 1 | 109792641 - 109818378 | T - 50.00% | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 109792641 - 109818378 | F - 33.33% | TRUE | TRUE |
| 1 | 109792641 - 109818378 | F - 33.33% | FALSE | TRUE |
| 1 | 109792641 - 109818378 | | TRUE | TRUE |
| 1 | 109792641 - 109818378 | | FALSE | TRUE |
| 1 | 109792641 - 109818378 | | FALSE | TRUE |
| 1 | 109792641 - 109818378 | | FALSE | TRUE |
| 1 | 151313116 - 151319833 | F - 3.85% | TRUE | FALSE |
| 1 | 151313116 - 151319833 | | TRUE | TRUE |
| 1 | 165693528 - 165796992 | | TRUE | FALSE |
| 1 | 165693528 - 165796992 | | TRUE | FALSE |
| 1 | 165693528 - 165796992 | T - 78.57% | TRUE | TRUE |
| 1 | 165693528 - 165796992 | | FALSE | TRUE |
| 1 | 165693528 - 165796992 | | FALSE | TRUE |
| 2 | 151324707 - 151395525 | F - 7.14% | TRUE | TRUE |
| 2 | 151324707 - 151395525 | F - 7.14% | FALSE | TRUE |
| 2 | 151324707 - 151395525 | F - 42.86% | FALSE | TRUE |
| 2 | 151324707 - 151395525 | F - 7.14% | TRUE | TRUE |
| 2 | 151324707 - 151395525 | F - 42.86% | FALSE | TRUE |
| 2 | 151324707 - 151395525 | | FALSE | TRUE |
| 3 | 112051915 - 112081659 | | TRUE | FALSE |
| 3 | 112051915 - 112081659 | | TRUE | TRUE |
| 3 | 112051915 - 112081659 | T - 83.33% | TRUE | TRUE |
| 3 | 112051915 - 112081659 | | TRUE | TRUE |
| 3 | 112051915 - 112081659 | F - 16.67% | TRUE | TRUE |
| 3 | 112051915 - 112081659 | T - 100.00% | TRUE | TRUE |
| 3 | 112051915 - 112081659 | T - 50.00% | TRUE | TRUE |
| 3 | 112051915 - 112081659 | | FALSE | TRUE |
| 4 | 52886861 - 52904648 | F - 14.29% | TRUE | TRUE |
| 4 | 52886861 - 52904648 | | TRUE | TRUE |
| 4 | 52886861 - 52904648 | | TRUE | TRUE |
| 4 | 52886861 - 52904648 | F - 42.86% | TRUE | TRUE |
| 4 | 52886861 - 52904648 | T - 71.43% | TRUE | TRUE |
| 4 | 52886861 - 52904648 | T - 57.14% | TRUE | TRUE |
| 4 | 52886861 - 52904648 | | TRUE | TRUE |
| 5 | 73935848 - 74018472 | F - 6.25% | TRUE | FALSE |
| 5 | 73935848 - 74018472 | F - 6.25% | TRUE | TRUE |
| 5 | 73935848 - 74018472 | F - 18.75% | TRUE | TRUE |
| 5 | 73935848 - 74018472 | | TRUE | TRUE |
| 6 | 34204577 - 34214008 | F - 11.11% | TRUE | TRUE |
| 6 | 34204577 - 34214008 | | TRUE | TRUE |
| 6 | 34204577 - 34214008 | F - 25.93% | TRUE | TRUE |
| 6 | 34204577 - 34214008 | | TRUE | TRUE |
| 6 | 34204577 - 34214008 | F - 48.15% | FALSE | TRUE |
| 6 | 34204577 - 34214008 | T - 100.00% | TRUE | TRUE |
| 6 | 34204577 - 34214008 | T - 96.30% | TRUE | TRUE |
| 6 | 34204577 - 34214008 | T - 88.89% | TRUE | TRUE |
| 7 | 33134409 - 33149013 | | TRUE | TRUE |
| 7 | 33134409 - 33149013 | T - 60.00% | TRUE | TRUE |
| 7 | 33134409 - 33149013 | T - 60.00% | TRUE | TRUE |
| 7 | 33134409 - 33149013 | T - 60.00% | TRUE | TRUE |
| 7 | 33134409 - 33149013 | | TRUE | TRUE |
| 7 | 33134409 - 33149013 | T - 80.00% | TRUE | TRUE |
| 7 | 150060866 - 150069679 | T - 100.00% | TRUE | FALSE |
| 7 | 150060866 - 150069679 | | TRUE | TRUE |
| 9 | 139638469 - 139642980 | | TRUE | TRUE |
| 9 | 139638469 - 139642980 | F - 28.57% | TRUE | FALSE |
| X | 122318006 - 122624766 | F - 37.50% | TRUE | TRUE |
| X | 122318006 - 122624766 | | TRUE | TRUE |

| | | | | |
|---|-------------------------|-------------|-------|-------|
| X | 122318006 - 122624766 | | TRUE | TRUE |
| X | 122318006 - 122624766 | T - 56.25% | TRUE | TRUE |
| X | 122318006 - 122624766 | | TRUE | TRUE |
| X | 122318006 - 122624766 | F - 6.25% | TRUE | TRUE |
| X | 122318006 - 122624766 | T - 62.50% | TRUE | TRUE |
| X | 38128423 - 38186817 | | TRUE | FALSE |
| X | 38128423 - 38186817 | | TRUE | TRUE |
| X | 38128423 - 38186817 | | TRUE | TRUE |
| X | 38128423 - 38186817 | | FALSE | TRUE |
| X | 38128423 - 38186817 | F - 16.67% | FALSE | TRUE |
| X | 48928818 - 48931733 | | TRUE | TRUE |
| X | 48928818 - 48931733 | F - 20.00% | TRUE | TRUE |
| | 11 47290712 - 47357945 | | TRUE | FALSE |
| | 11 47290712 - 47357945 | F - 6.06% | TRUE | TRUE |
| | 11 47290712 - 47357945 | | FALSE | TRUE |
| | 12 57610578 - 57620232 | F - 20.00% | TRUE | TRUE |
| | 12 57610578 - 57620232 | F - 20.00% | FALSE | TRUE |
| | 12 57610578 - 57620232 | | TRUE | TRUE |
| | 12 57610578 - 57620232 | T - 60.00% | TRUE | TRUE |
| | 12 92534054 - 92539673 | T - 50.00% | TRUE | TRUE |
| | 12 92534054 - 92539673 | F - 25.00% | TRUE | TRUE |
| | 12 92534054 - 92539673 | | TRUE | TRUE |
| | 14 22918107 - 22934912 | F - 30.77% | TRUE | TRUE |
| | 14 22918107 - 22934912 | F - 7.69% | TRUE | TRUE |
| | 14 22918107 - 22934912 | F - 15.38% | TRUE | TRUE |
| | 14 22918107 - 22934912 | | TRUE | TRUE |
| | 14 22918107 - 22934912 | | TRUE | TRUE |
| | 14 22918107 - 22934912 | F - 15.38% | TRUE | TRUE |
| | 15 82944773 - 82976263 | | TRUE | TRUE |
| | 15 82944773 - 82976263 | | TRUE | TRUE |
| | 15 82944773 - 82976263 | T - 76.92% | TRUE | TRUE |
| | 15 82944773 - 82976263 | | FALSE | TRUE |
| | 15 82944773 - 82976263 | | FALSE | TRUE |
| | 17 4613784 - 4624795 | | TRUE | TRUE |
| | 17 4613784 - 4624795 | T - 75.00% | TRUE | TRUE |
| | 17 4613784 - 4624795 | F - 8.33% | TRUE | TRUE |
| | 17 4613784 - 4624795 | T - 100.00% | TRUE | TRUE |
| | 17 4613784 - 4624795 | | FALSE | TRUE |
| | 17 4613784 - 4624795 | | TRUE | TRUE |
| | 17 4613784 - 4624795 | | TRUE | TRUE |
| | 17 4613784 - 4624795 | | TRUE | TRUE |
| | 17 4613784 - 4624795 | T - 100.00% | TRUE | TRUE |
| | 17 4613784 - 4624795 | | TRUE | TRUE |
| | 17 4613784 - 4624795 | | TRUE | TRUE |
| | 17 4613784 - 4624795 | | FALSE | TRUE |
| | 19 50094912 - 50129696 | T - 100.00% | TRUE | FALSE |
| | 19 50094912 - 50129696 | | FALSE | TRUE |
| | 19 41903365 - 41937250 | | TRUE | TRUE |
| | 19 41903365 - 41937250 | | TRUE | TRUE |
| | 19 41903365 - 41937250 | | TRUE | TRUE |
| | 19 41903365 - 41937250 | F - 9.09% | TRUE | TRUE |
| | 20 34203809 - 34208971 | F - 11.11% | TRUE | TRUE |
| | 20 34203809 - 34208971 | F - 44.44% | TRUE | TRUE |
| | 20 34203809 - 34208971 | | TRUE | FALSE |
| | 20 34203809 - 34208971 | T - 66.67% | TRUE | TRUE |
| | 20 34203809 - 34208971 | T - 77.78% | FALSE | TRUE |
| | 1 110276554 - 110284384 | | TRUE | FALSE |
| | 1 110276554 - 110284384 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 110276554 - 110284384 | F - 18.18% | TRUE | TRUE |
| 3 | 135684515 - 135866752 | | TRUE | TRUE |
| 3 | 135684515 - 135866752 | F - 45.45% | TRUE | TRUE |
| 3 | 135684515 - 135866752 | | TRUE | TRUE |
| 4 | 1050037 - 1107352 | | TRUE | TRUE |
| 4 | 1050037 - 1107352 | F - 45.83% | TRUE | TRUE |
| 4 | 1050037 - 1107352 | F - 41.67% | TRUE | TRUE |
| 4 | 1050037 - 1107352 | F - 8.33% | TRUE | TRUE |
| 7 | 110731062 - 110765509 | T - 80.00% | TRUE | TRUE |
| 7 | 110731062 - 110765509 | T - 90.00% | TRUE | TRUE |
| 7 | 110731062 - 110765509 | F - 30.00% | TRUE | FALSE |
| 7 | 110731062 - 110765509 | | TRUE | FALSE |
| 7 | 110731062 - 110765509 | | TRUE | FALSE |
| 7 | 110731062 - 110765509 | T - 60.00% | TRUE | FALSE |
| 7 | 110731062 - 110765509 | T - 50.00% | TRUE | TRUE |
| 7 | 110731062 - 110765509 | T - 50.00% | TRUE | TRUE |
| 7 | 110731062 - 110765509 | T - 70.00% | FALSE | TRUE |
| 7 | 110731062 - 110765509 | T - 80.00% | TRUE | TRUE |
| 9 | 3218297 - 3526004 | | TRUE | TRUE |
| 9 | 3218297 - 3526004 | F - 26.32% | TRUE | TRUE |
| 9 | 3218297 - 3526004 | | TRUE | TRUE |
| 9 | 3218297 - 3526004 | F - 47.37% | TRUE | TRUE |
| 9 | 3218297 - 3526004 | | TRUE | TRUE |
| 9 | 3218297 - 3526004 | | FALSE | TRUE |
| X | 44732423 - 44971847 | | TRUE | FALSE |
| X | 44732423 - 44971847 | | TRUE | TRUE |
| X | 44732423 - 44971847 | T - 70.37% | TRUE | TRUE |
| X | 44732423 - 44971847 | F - 3.70% | TRUE | TRUE |
| X | 44732423 - 44971847 | F - 3.70% | TRUE | TRUE |
| X | 44732423 - 44971847 | T - 62.96% | TRUE | TRUE |
| X | 44732423 - 44971847 | T - 62.96% | TRUE | TRUE |
| X | 44732423 - 44971847 | | TRUE | TRUE |
| X | 44732423 - 44971847 | | TRUE | TRUE |
| 16 | 12995455 - 13334273 | | TRUE | FALSE |
| 16 | 12995455 - 13334273 | T - 50.00% | TRUE | TRUE |
| 17 | 48541853 - 48546327 | | TRUE | FALSE |
| 17 | 48541853 - 48546327 | | TRUE | TRUE |
| 17 | 48541853 - 48546327 | F - 28.57% | TRUE | TRUE |
| 17 | 48541853 - 48546327 | F - 14.29% | TRUE | TRUE |
| 17 | 48541853 - 48546327 | | TRUE | TRUE |
| 17 | 48541853 - 48546327 | | FALSE | TRUE |
| 17 | 76170160 - 76183314 | F - 16.67% | TRUE | TRUE |
| 17 | 76170160 - 76183314 | | FALSE | TRUE |
| 17 | 76170160 - 76183314 | F - 33.33% | TRUE | TRUE |
| 17 | 76170160 - 76183314 | T - 100.00% | TRUE | TRUE |
| 17 | 76170160 - 76183314 | | FALSE | TRUE |
| 17 | 76170160 - 76183314 | T - 100.00% | TRUE | TRUE |
| 17 | 76170160 - 76183314 | T - 100.00% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | FALSE |
| 1 | 202317827 - 202557697 | F - 16.67% | FALSE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 202317827 - 202557697 | T - 50.00% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | F - 45.83% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 202317827 - 202557697 | F - 45.83% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | F - 29.17% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 1 | 202317827 - 202557697 | F - 45.83% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | F - 37.50% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 202317827 - 202557697 | F - 41.67% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 202317827 - 202557697 | F - 4.17% | TRUE | TRUE |
| 1 | 202317827 - 202557697 | | TRUE | TRUE |
| 1 | 19967048 - 19984949 | T - 53.33% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | T - 100.00% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | T - 53.33% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | | TRUE | TRUE |
| 1 | 19967048 - 19984949 | T - 73.33% | TRUE | FALSE |
| 1 | 19967048 - 19984949 | | TRUE | FALSE |
| 1 | 19967048 - 19984949 | F - 13.33% | TRUE | FALSE |
| 1 | 19967048 - 19984949 | T - 66.67% | TRUE | FALSE |
| 1 | 19967048 - 19984949 | | TRUE | FALSE |
| 1 | 19967048 - 19984949 | F - 13.33% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | | TRUE | TRUE |
| 1 | 19967048 - 19984949 | F - 6.67% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | F - 20.00% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | F - 13.33% | TRUE | TRUE |
| 1 | 19967048 - 19984949 | | TRUE | TRUE |
| 1 | 19967048 - 19984949 | | FALSE | TRUE |
| 1 | 19967048 - 19984949 | F - 6.67% | FALSE | TRUE |
| 1 | 19967048 - 19984949 | | FALSE | TRUE |
| 3 | 9439299 - 9520924 | | TRUE | FALSE |
| 3 | 9439299 - 9520924 | F - 2.70% | TRUE | TRUE |
| 3 | 9439299 - 9520924 | | TRUE | FALSE |
| 3 | 9439299 - 9520924 | | FALSE | TRUE |
| 3 | 9439299 - 9520924 | F - 2.70% | TRUE | TRUE |
| 3 | 9439299 - 9520924 | F - 5.41% | FALSE | TRUE |
| 5 | 92919043 - 92930321 | | TRUE | FALSE |
| 5 | 92919043 - 92930321 | F - 11.11% | FALSE | TRUE |
| 5 | 55230923 - 55290821 | | TRUE | TRUE |
| 5 | 55230923 - 55290821 | F - 7.69% | TRUE | TRUE |
| 5 | 55230923 - 55290821 | | FALSE | TRUE |
| 5 | 80499915 - 80597388 | T - 80.00% | TRUE | TRUE |
| 5 | 80499915 - 80597388 | | TRUE | FALSE |
| 5 | 80499915 - 80597388 | F - 20.00% | FALSE | TRUE |
| 5 | 80499915 - 80597388 | | FALSE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | T - 89.80% | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | F - 2.04% | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | FALSE | TRUE |
| 14 | 91526677 - 91691703 | F - 22.45% | TRUE | TRUE |
| 14 | 91526677 - 91691703 | F - 30.61% | TRUE | TRUE |
| 14 | 91526677 - 91691703 | T - 63.27% | TRUE | TRUE |
| 14 | 91526677 - 91691703 | | TRUE | TRUE |
| 14 | 91526677 - 91691703 | F - 16.33% | TRUE | TRUE |
| 14 | 91526677 - 91691703 | T - 81.63% | FALSE | TRUE |
| 14 | 91526677 - 91691703 | | FALSE | TRUE |
| 6_ssto_hap7 | 2950986 - 2956785 | | TRUE | TRUE |

| | | | | |
|-------------|-------------------------|------------|-------|-------|
| 6_ssto_hap7 | 2950986 - 2956785 | T - 57.14% | TRUE | TRUE |
| | 2 97779233 - 97930258 | | TRUE | TRUE |
| | 2 97779233 - 97930258 | F - 40.91% | TRUE | TRUE |
| | 2 97779233 - 97930258 | F - 27.27% | TRUE | TRUE |
| | 2 97779233 - 97930258 | | TRUE | TRUE |
| | 2 97779233 - 97930258 | | TRUE | TRUE |
| | 2 97779233 - 97930258 | | TRUE | TRUE |
| | 2 97779233 - 97930258 | F - 36.36% | TRUE | TRUE |
| | 2 97779233 - 97930258 | | FALSE | TRUE |
| | 2 97779233 - 97930258 | | TRUE | TRUE |
| | 2 10923517 - 10978103 | | TRUE | TRUE |
| | 2 10923517 - 10978103 | | TRUE | TRUE |
| | 2 10923517 - 10978103 | F - 12.50% | TRUE | TRUE |
| | 2 10923517 - 10978103 | | FALSE | TRUE |
| | 2 10923517 - 10978103 | T - 56.25% | TRUE | TRUE |
| | 2 10923517 - 10978103 | F - 6.25% | TRUE | TRUE |
| | 2 10923517 - 10978103 | F - 18.75% | TRUE | TRUE |
| | 2 10923517 - 10978103 | F - 6.25% | FALSE | TRUE |
| | 3 156864297 - 156878549 | | TRUE | FALSE |
| | 3 156864297 - 156878549 | F - 9.09% | TRUE | TRUE |
| | 4 185570767 - 185616117 | | TRUE | TRUE |
| | 4 185570767 - 185616117 | T - 64.71% | TRUE | FALSE |
| | 4 185570767 - 185616117 | | TRUE | TRUE |
| | 6 30655824 - 30659197 | | TRUE | TRUE |
| | 6 30655824 - 30659197 | F - 8.33% | TRUE | TRUE |
| | 6 30655824 - 30659197 | | FALSE | TRUE |
| | 6 30655824 - 30659197 | | FALSE | TRUE |
| | 11 9595228 - 9615004 | F - 44.44% | TRUE | TRUE |
| | 11 9595228 - 9615004 | F - 33.33% | TRUE | TRUE |
| | 11 9595228 - 9615004 | | TRUE | TRUE |
| | 11 9595228 - 9615004 | F - 22.22% | FALSE | TRUE |
| | 11 9595228 - 9615004 | F - 11.11% | TRUE | TRUE |
| | 11 9595228 - 9615004 | | FALSE | TRUE |
| | 11 9595228 - 9615004 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | T - 66.67% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | F - 46.67% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | T - 60.00% | TRUE | TRUE |
| | 12 48366748 - 48398285 | T - 66.67% | TRUE | TRUE |
| | 12 48366748 - 48398285 | T - 53.33% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | F - 46.67% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | | TRUE | TRUE |
| | 12 48366748 - 48398285 | T - 60.00% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | FALSE | TRUE |
| | 12 48366748 - 48398285 | F - 46.67% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | FALSE | TRUE |
| | 12 48366748 - 48398285 | T - 60.00% | FALSE | TRUE |
| | 12 48366748 - 48398285 | | FALSE | TRUE |
| | 12 48366748 - 48398285 | | FALSE | TRUE |
| | 12 48366748 - 48398285 | F - 33.33% | TRUE | TRUE |
| | 12 48366748 - 48398285 | | FALSE | TRUE |
| | 12 48366748 - 48398285 | T - 53.33% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 12 | 48366748 - 48398285 | T - 66.67% | TRUE | TRUE |
| 12 | 48366748 - 48398285 | | TRUE | TRUE |
| 12 | 48366748 - 48398285 | T - 60.00% | TRUE | TRUE |
| 12 | 48366748 - 48398285 | T - 66.67% | TRUE | TRUE |
| 12 | 48366748 - 48398285 | T - 66.67% | TRUE | TRUE |
| 12 | 48366748 - 48398285 | T - 60.00% | TRUE | TRUE |
| 12 | 48366748 - 48398285 | T - 66.67% | TRUE | TRUE |
| 12 | 48366748 - 48398285 | | FALSE | TRUE |
| 16 | 89334029 - 89556969 | F - 18.75% | TRUE | FALSE |
| 16 | 89334029 - 89556969 | | TRUE | TRUE |
| 16 | 89334029 - 89556969 | F - 18.75% | FALSE | TRUE |
| 18 | 11689136 - 11885684 | F - 10.00% | TRUE | TRUE |
| 18 | 11689136 - 11885684 | F - 20.00% | TRUE | FALSE |
| 18 | 11689136 - 11885684 | | TRUE | TRUE |
| 6_apd_hap1 | 1967470 - 1970843 | | TRUE | TRUE |
| 6_apd_hap1 | 1967470 - 1970843 | F - 9.09% | TRUE | TRUE |
| 6_apd_hap1 | 1967470 - 1970843 | | FALSE | TRUE |
| 6_apd_hap1 | 1967470 - 1970843 | | FALSE | TRUE |
| 6_cox_hap2 | 2167897 - 2171270 | | TRUE | TRUE |
| 6_cox_hap2 | 2167897 - 2171270 | F - 9.09% | TRUE | TRUE |
| 6_cox_hap2 | 2167897 - 2171270 | | FALSE | TRUE |
| 6_cox_hap2 | 2167897 - 2171270 | | FALSE | TRUE |
| 6_dbb_hap3 | 1949486 - 1952859 | | TRUE | TRUE |
| 6_dbb_hap3 | 1949486 - 1952859 | F - 9.09% | TRUE | TRUE |
| 6_dbb_hap3 | 1949486 - 1952859 | | FALSE | TRUE |
| 6_dbb_hap3 | 1949486 - 1952859 | | FALSE | TRUE |
| 6_mann_hap4 | 2003920 - 2007293 | | TRUE | TRUE |
| 6_mann_hap4 | 2003920 - 2007293 | F - 9.09% | TRUE | TRUE |
| 6_mann_hap4 | 2003920 - 2007293 | | FALSE | TRUE |
| 6_mann_hap4 | 2003920 - 2007293 | | FALSE | TRUE |
| 6_mcf_hap5 | 2037709 - 2041082 | | TRUE | TRUE |
| 6_mcf_hap5 | 2037709 - 2041082 | F - 9.09% | TRUE | TRUE |
| 6_mcf_hap5 | 2037709 - 2041082 | | FALSE | TRUE |
| 6_mcf_hap5 | 2037709 - 2041082 | | FALSE | TRUE |
| 6_qbl_hap6 | 1948757 - 1952130 | | TRUE | TRUE |
| 6_qbl_hap6 | 1948757 - 1952130 | F - 9.09% | TRUE | TRUE |
| 6_qbl_hap6 | 1948757 - 1952130 | | FALSE | TRUE |
| 6_qbl_hap6 | 1948757 - 1952130 | | FALSE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | | TRUE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | F - 20.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | F - 40.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | | FALSE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | | TRUE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | | TRUE | TRUE |
| 6_ssto_hap7 | 1032128 - 1054576 | | TRUE | TRUE |
| 1 | 201252580 - 201302121 | | TRUE | TRUE |
| 1 | 201252580 - 201302121 | T - 71.43% | FALSE | TRUE |
| 1 | 26607819 - 26644854 | | TRUE | TRUE |
| 1 | 26607819 - 26644854 | | TRUE | TRUE |
| 1 | 26607819 - 26644854 | F - 32.14% | TRUE | FALSE |
| 1 | 26607819 - 26644854 | | TRUE | TRUE |
| 2 | 219128850 - 219134980 | F - 46.15% | TRUE | FALSE |
| 2 | 219128850 - 219134980 | | TRUE | FALSE |
| 6 | 31606805 - 31620482 | | TRUE | TRUE |
| 6 | 31606805 - 31620482 | F - 2.50% | TRUE | TRUE |
| 6 | 31606805 - 31620482 | F - 7.50% | TRUE | TRUE |
| 6 | 31606805 - 31620482 | | TRUE | TRUE |
| 6 | 31606805 - 31620482 | | TRUE | TRUE |

| | | | | |
|------------|---------------------|------------|-------|-------|
| 6 | 31606805 - 31620482 | F - 7.50% | TRUE | TRUE |
| 6 | 31606805 - 31620482 | | TRUE | TRUE |
| 6 | 31606805 - 31620482 | F - 35.00% | TRUE | TRUE |
| 6 | 31606805 - 31620482 | F - 2.50% | TRUE | TRUE |
| 6 | 31606805 - 31620482 | | TRUE | TRUE |
| 6 | 31606805 - 31620482 | F - 2.50% | TRUE | TRUE |
| 7 | 74988429 - 75019819 | | TRUE | TRUE |
| 7 | 74988429 - 75019819 | | TRUE | TRUE |
| 7 | 74988429 - 75019819 | F - 14.29% | TRUE | TRUE |
| 7 | 74988429 - 75019819 | | TRUE | TRUE |
| 7 | 74988429 - 75019819 | | TRUE | TRUE |
| 9 | 47295855 - 47314322 | | TRUE | TRUE |
| 9 | 47295855 - 47314322 | F - 44.44% | TRUE | TRUE |
| 9 | 47295855 - 47314322 | | TRUE | TRUE |
| 9 | 47295855 - 47314322 | F - 33.33% | TRUE | TRUE |
| 9 | 47295855 - 47314322 | | FALSE | TRUE |
| 12 | 72233487 - 72320629 | | TRUE | FALSE |
| 12 | 72233487 - 72320629 | F - 13.04% | TRUE | TRUE |
| 12 | 72233487 - 72320629 | F - 4.35% | TRUE | TRUE |
| 15 | 79102829 - 79190475 | | TRUE | TRUE |
| 15 | 79102829 - 79190475 | F - 11.76% | TRUE | TRUE |
| 16 | 134273 - 188859 | | TRUE | TRUE |
| 16 | 134273 - 188859 | F - 3.33% | FALSE | TRUE |
| 16 | 134273 - 188859 | F - 6.67% | TRUE | TRUE |
| 16 | 134273 - 188859 | | TRUE | TRUE |
| 16 | 134273 - 188859 | F - 3.33% | TRUE | TRUE |
| 16 | 134273 - 188859 | | TRUE | TRUE |
| 16 | 134273 - 188859 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | F - 4.76% | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | FALSE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | F - 9.52% | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 20 | 34042985 - 34099804 | T - 57.14% | TRUE | TRUE |
| 20 | 34042985 - 34099804 | F - 28.57% | TRUE | TRUE |
| 20 | 34042985 - 34099804 | | TRUE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | | TRUE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | F - 20.00% | TRUE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | F - 40.00% | TRUE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | | FALSE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | | TRUE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | | TRUE | TRUE |
| 6_cox_hap2 | 1210563 - 1233001 | | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | F - 2.56% | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | F - 12.82% | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | F - 7.69% | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | F - 33.33% | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | | TRUE | TRUE |
| 6_mcf_hap5 | 2986492 - 3000162 | F - 2.56% | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 6_qbl_hap6 | 2900437 - 2914120 | F - 2.63% | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | F - 10.53% | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | F - 7.89% | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | F - 2.63% | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | F - 31.58% | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | | TRUE | TRUE |
| 6_qbl_hap6 | 2900437 - 2914120 | F - 2.63% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | | TRUE | TRUE |
| 3 | 51976361 - 51982883 | | TRUE | TRUE |
| 3 | 51976361 - 51982883 | F - 8.33% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | F - 8.33% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | F - 25.00% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | T - 50.00% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | F - 16.67% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | T - 83.33% | TRUE | TRUE |
| 3 | 51976361 - 51982883 | | TRUE | TRUE |
| 4 | 38869298 - 38947365 | | TRUE | TRUE |
| 4 | 38869298 - 38947365 | F - 7.69% | TRUE | TRUE |
| 4 | 38869298 - 38947365 | | TRUE | TRUE |
| 4 | 38869298 - 38947365 | | TRUE | TRUE |
| 4 | 85590693 - 85887544 | | TRUE | TRUE |
| 4 | 85590693 - 85887544 | | TRUE | TRUE |
| 4 | 85590693 - 85887544 | F - 16.67% | TRUE | TRUE |
| 4 | 85590693 - 85887544 | | FALSE | TRUE |
| 5 | 159820155 - 159827104 | F - 16.67% | TRUE | TRUE |
| 5 | 159820155 - 159827104 | | TRUE | TRUE |
| 5 | 159820155 - 159827104 | T - 83.33% | FALSE | TRUE |
| 6 | 30710976 - 30712331 | | FALSE | TRUE |
| 6 | 30710976 - 30712331 | F - 33.33% | TRUE | TRUE |
| 7 | 72438647 - 72476448 | | TRUE | TRUE |
| 7 | 72438647 - 72476448 | F - 18.75% | TRUE | TRUE |
| 7 | 72438647 - 72476448 | | TRUE | TRUE |
| 7 | 72438647 - 72476448 | | TRUE | TRUE |
| 10 | 43689983 - 43762367 | T - 57.14% | TRUE | TRUE |
| 10 | 43689983 - 43762367 | F - 14.29% | TRUE | TRUE |
| 10 | 43689983 - 43762367 | | TRUE | TRUE |
| 15 | 43650370 - 43662258 | | TRUE | FALSE |
| 15 | 43650370 - 43662258 | | TRUE | TRUE |
| 15 | 43650370 - 43662258 | T - 66.67% | TRUE | TRUE |
| 16 | 52060264 - 52107847 | | TRUE | FALSE |
| 16 | 52060264 - 52107847 | T - 100.00% | FALSE | TRUE |
| 19 | 52249023 - 52255150 | T - 100.00% | TRUE | TRUE |
| 19 | 52249023 - 52255150 | | TRUE | TRUE |
| 19 | 52249023 - 52255150 | | TRUE | TRUE |
| 21 | 43218385 - 43299591 | | TRUE | TRUE |
| 21 | 43218385 - 43299591 | | TRUE | FALSE |
| 21 | 43218385 - 43299591 | | TRUE | TRUE |
| 21 | 43218385 - 43299591 | T - 54.55% | TRUE | FALSE |
| 21 | 43218385 - 43299591 | | TRUE | TRUE |
| 21 | 43218385 - 43299591 | | TRUE | TRUE |
| 1 | 183155174 - 183214262 | | TRUE | FALSE |
| 1 | 183155174 - 183214262 | | TRUE | FALSE |
| 1 | 183155174 - 183214262 | | TRUE | FALSE |
| 1 | 183155174 - 183214262 | | FALSE | TRUE |
| 1 | 183155174 - 183214262 | | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 1 | 183155174 - 183214262 | | FALSE | TRUE |
| 1 | 183155174 - 183214262 | T - 80.00% | FALSE | TRUE |
| 1 | 183155174 - 183214262 | | FALSE | TRUE |
| 1 | 149900543 - 150227304 | F - 31.58% | TRUE | FALSE |
| 1 | 149900543 - 150227304 | | TRUE | TRUE |
| 1 | 149900543 - 150227304 | | TRUE | TRUE |
| 1 | 149900543 - 150227304 | T - 57.89% | FALSE | TRUE |
| 6 | 31620187 - 31625987 | | TRUE | TRUE |
| 6 | 31620187 - 31625987 | T - 50.00% | TRUE | TRUE |
| 8 | 42010464 - 42029191 | F - 9.09% | TRUE | FALSE |
| 8 | 42010464 - 42029191 | | TRUE | TRUE |
| 8 | 42010464 - 42029191 | F - 18.18% | TRUE | FALSE |
| 8 | 42010464 - 42029191 | F - 4.55% | TRUE | TRUE |
| 8 | 94741584 - 94753245 | | TRUE | TRUE |
| 8 | 94741584 - 94753245 | T - 66.67% | TRUE | TRUE |
| 8 | 94741584 - 94753245 | F - 22.22% | TRUE | TRUE |
| 9 | 46389110 - 46391556 | | TRUE | TRUE |
| 9 | 46389110 - 46391556 | T - 50.00% | TRUE | TRUE |
| 11 | 72525353 - 72554719 | | TRUE | FALSE |
| 11 | 72525353 - 72554719 | | TRUE | TRUE |
| 11 | 72525353 - 72554719 | F - 22.22% | TRUE | TRUE |
| 11 | 72525353 - 72554719 | T - 100.00% | TRUE | TRUE |
| 11 | 72525353 - 72554719 | F - 11.11% | TRUE | TRUE |
| 11 | 72525353 - 72554719 | | FALSE | TRUE |
| 13 | 52706779 - 52733996 | | TRUE | TRUE |
| 13 | 52706779 - 52733996 | | TRUE | TRUE |
| 13 | 52706779 - 52733996 | T - 84.62% | TRUE | TRUE |
| 13 | 52706779 - 52733996 | T - 92.31% | TRUE | TRUE |
| 17 | 26925808 - 26944395 | | TRUE | TRUE |
| 17 | 26925808 - 26944395 | F - 20.00% | TRUE | TRUE |
| 17 | 74306868 - 74380602 | F - 8.33% | TRUE | TRUE |
| 17 | 74306868 - 74380602 | F - 8.33% | FALSE | TRUE |
| 17 | 74306868 - 74380602 | F - 8.33% | TRUE | TRUE |
| 17 | 74306868 - 74380602 | F - 8.33% | TRUE | TRUE |
| 17 | 74306868 - 74380602 | | TRUE | TRUE |
| 17 | 74306868 - 74380602 | F - 8.33% | TRUE | TRUE |
| 17 | 74306868 - 74380602 | | TRUE | TRUE |
| 17 | 74306868 - 74380602 | | TRUE | TRUE |
| 21 | 36041688 - 36090525 | | TRUE | FALSE |
| 21 | 36041688 - 36090525 | T - 100.00% | TRUE | TRUE |
| 21 | 36041688 - 36090525 | | TRUE | TRUE |
| 21 | 36041688 - 36090525 | T - 50.00% | TRUE | TRUE |
| 21 | 36041688 - 36090525 | T - 100.00% | TRUE | TRUE |
| 6_cox_hap2 | 3129806 - 3135605 | | TRUE | TRUE |
| 6_cox_hap2 | 3129806 - 3135605 | T - 57.14% | TRUE | TRUE |
| 6_dbb_hap3 | 2905766 - 2911566 | | TRUE | TRUE |
| 6_dbb_hap3 | 2905766 - 2911566 | T - 57.14% | TRUE | TRUE |
| 6_mann_hap4 | 2963076 - 2968876 | | TRUE | TRUE |
| 6_mann_hap4 | 2963076 - 2968876 | T - 57.14% | TRUE | TRUE |
| 6_mcf_hap5 | 2999867 - 3005667 | | TRUE | TRUE |
| 6_mcf_hap5 | 2999867 - 3005667 | T - 57.14% | TRUE | TRUE |
| 6_qbl_hap6 | 2913825 - 2919624 | | TRUE | TRUE |
| 6_qbl_hap6 | 2913825 - 2919624 | T - 57.14% | TRUE | TRUE |
| 2 | 114188270 - 114253781 | | TRUE | FALSE |
| 2 | 114188270 - 114253781 | | TRUE | TRUE |
| 2 | 114188270 - 114253781 | | TRUE | FALSE |
| 2 | 114188270 - 114253781 | | TRUE | FALSE |
| 2 | 114188270 - 114253781 | F - 4.00% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 2 | 114188270 - 114253781 | F - 16.00% | TRUE | TRUE |
| | 2 | 114188270 - 114253781 | | TRUE | TRUE |
| | 2 | 114188270 - 114253781 | F - 8.00% | TRUE | TRUE |
| | 2 | 114188270 - 114253781 | F - 4.00% | TRUE | TRUE |
| | 2 | 200625259 - 200715896 | T - 100.00% | TRUE | FALSE |
| | 2 | 200625259 - 200715896 | T - 100.00% | TRUE | TRUE |
| | 2 | 200625259 - 200715896 | | TRUE | TRUE |
| | 2 | 200625259 - 200715896 | | FALSE | TRUE |
| | 2 | 200625259 - 200715896 | T - 60.00% | FALSE | TRUE |
| | 3 | 118930579 - 118959950 | | TRUE | TRUE |
| | 3 | 118930579 - 118959950 | | TRUE | FALSE |
| | 3 | 118930579 - 118959950 | | TRUE | TRUE |
| | 3 | 118930579 - 118959950 | | TRUE | TRUE |
| | 3 | 118930579 - 118959950 | F - 7.69% | TRUE | TRUE |
| | 3 | 118930579 - 118959950 | T - 61.54% | TRUE | TRUE |
| | 3 | 185864990 - 186080026 | | TRUE | FALSE |
| | 3 | 185864990 - 186080026 | T - 72.22% | TRUE | TRUE |
| | 3 | 185864990 - 186080026 | | FALSE | TRUE |
| | 3 | 185864990 - 186080026 | | TRUE | TRUE |
| | 5 | 149980642 - 150038792 | | TRUE | TRUE |
| | 5 | 149980642 - 150038792 | F - 16.67% | TRUE | TRUE |
| | 5 | 149980642 - 150038792 | F - 16.67% | TRUE | TRUE |
| | 7 | 128828713 - 128853386 | | TRUE | FALSE |
| | 7 | 128828713 - 128853386 | | TRUE | TRUE |
| | 7 | 128828713 - 128853386 | F - 16.67% | TRUE | FALSE |
| | 7 | 128828713 - 128853386 | | TRUE | TRUE |
| X | | 13752832 - 13787480 | | TRUE | FALSE |
| X | | 13752832 - 13787480 | | TRUE | TRUE |
| X | | 13752832 - 13787480 | T - 68.42% | TRUE | TRUE |
| X | | 13752832 - 13787480 | | TRUE | TRUE |
| X | | 13752832 - 13787480 | | FALSE | TRUE |
| X | | 39909068 - 40036582 | F - 17.65% | TRUE | FALSE |
| X | | 39909068 - 40036582 | F - 11.76% | TRUE | FALSE |
| X | | 39909068 - 40036582 | F - 5.88% | TRUE | TRUE |
| X | | 39909068 - 40036582 | F - 5.88% | TRUE | TRUE |
| X | | 39909068 - 40036582 | | TRUE | TRUE |
| X | | 39909068 - 40036582 | | TRUE | TRUE |
| X | | 39909068 - 40036582 | F - 23.53% | TRUE | TRUE |
| X | | 39909068 - 40036582 | | TRUE | TRUE |
| X | | 80369200 - 80457441 | F - 25.00% | TRUE | FALSE |
| X | | 80369200 - 80457441 | | TRUE | FALSE |
| X | | 80369200 - 80457441 | | TRUE | FALSE |
| X | | 80369200 - 80457441 | T - 50.00% | FALSE | TRUE |
| X | | 80369200 - 80457441 | | FALSE | TRUE |
| X | | 80369200 - 80457441 | | FALSE | TRUE |
| X | | 80369200 - 80457441 | | FALSE | TRUE |
| X | | 119658446 - 119709684 | F - 30.00% | TRUE | TRUE |
| X | | 119658446 - 119709684 | F - 10.00% | TRUE | TRUE |
| X | | 119658446 - 119709684 | F - 10.00% | TRUE | TRUE |
| X | | 119658446 - 119709684 | F - 10.00% | TRUE | TRUE |
| X | | 119658446 - 119709684 | F - 10.00% | TRUE | TRUE |
| X | | 119658446 - 119709684 | T - 70.00% | TRUE | TRUE |
| X | | 119658446 - 119709684 | | TRUE | TRUE |
| | 12 | 52908359 - 52914471 | T - 83.33% | TRUE | TRUE |
| | 12 | 52908359 - 52914471 | T - 100.00% | TRUE | TRUE |
| | 12 | 52908359 - 52914471 | T - 100.00% | TRUE | TRUE |
| | 12 | 52908359 - 52914471 | | TRUE | TRUE |
| | 12 | 52908359 - 52914471 | | FALSE | TRUE |

| | | | | | |
|-------------|----|-----------------------|------------|-------|-------|
| | 12 | 52908359 - 52914471 | | FALSE | TRUE |
| | 12 | 52908359 - 52914471 | | TRUE | TRUE |
| | 17 | 30677128 - 30714780 | F - 6.67% | TRUE | TRUE |
| | 17 | 30677128 - 30714780 | | TRUE | TRUE |
| | 17 | 30677128 - 30714780 | | TRUE | TRUE |
| 6_cox_hap2 | | 3007658 - 3019911 | | TRUE | TRUE |
| 6_cox_hap2 | | 3007658 - 3019911 | F - 9.09% | TRUE | TRUE |
| 6_cox_hap2 | | 3007658 - 3019911 | | TRUE | TRUE |
| 6_cox_hap2 | | 3007658 - 3019911 | F - 6.06% | TRUE | TRUE |
| 6_cox_hap2 | | 3007658 - 3019911 | F - 6.06% | FALSE | TRUE |
| 6_dbb_hap3 | | 2783577 - 2795830 | | TRUE | TRUE |
| 6_dbb_hap3 | | 2783577 - 2795830 | F - 8.82% | TRUE | TRUE |
| 6_dbb_hap3 | | 2783577 - 2795830 | | TRUE | TRUE |
| 6_dbb_hap3 | | 2783577 - 2795830 | F - 5.88% | TRUE | TRUE |
| 6_dbb_hap3 | | 2783577 - 2795830 | F - 5.88% | FALSE | TRUE |
| 6_mann_hap4 | | 2840912 - 2853148 | | TRUE | TRUE |
| 6_mann_hap4 | | 2840912 - 2853148 | F - 5.88% | TRUE | TRUE |
| 6_mann_hap4 | | 2840912 - 2853148 | | TRUE | TRUE |
| 6_mann_hap4 | | 2840912 - 2853148 | F - 2.94% | TRUE | TRUE |
| 6_mann_hap4 | | 2840912 - 2853148 | F - 5.88% | FALSE | TRUE |
| 6_mcf_hap5 | | 2877747 - 2889999 | | TRUE | TRUE |
| 6_mcf_hap5 | | 2877747 - 2889999 | F - 8.82% | TRUE | TRUE |
| 6_mcf_hap5 | | 2877747 - 2889999 | | TRUE | TRUE |
| 6_mcf_hap5 | | 2877747 - 2889999 | F - 5.88% | TRUE | TRUE |
| 6_mcf_hap5 | | 2877747 - 2889999 | F - 5.88% | FALSE | TRUE |
| 6_qbl_hap6 | | 2791677 - 2803927 | | TRUE | TRUE |
| 6_qbl_hap6 | | 2791677 - 2803927 | F - 9.09% | TRUE | TRUE |
| 6_qbl_hap6 | | 2791677 - 2803927 | | TRUE | TRUE |
| 6_qbl_hap6 | | 2791677 - 2803927 | F - 6.06% | TRUE | TRUE |
| 6_qbl_hap6 | | 2791677 - 2803927 | F - 6.06% | FALSE | TRUE |
| | 1 | 85483765 - 85514223 | F - 7.14% | TRUE | TRUE |
| | 1 | 85483765 - 85514223 | T - 57.14% | TRUE | TRUE |
| | 1 | 85483765 - 85514223 | | TRUE | TRUE |
| | 1 | 85483765 - 85514223 | F - 35.71% | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | F - 20.00% | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | T - 60.00% | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | F - 20.00% | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | F - 6.67% | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | T - 53.33% | TRUE | FALSE |
| | 2 | 154728426 - 155310489 | F - 6.67% | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | F - 20.00% | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | F - 13.33% | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | F - 6.67% | TRUE | TRUE |
| | 2 | 154728426 - 155310489 | F - 13.33% | TRUE | TRUE |
| | 2 | 100163716 - 100759201 | | TRUE | TRUE |
| | 2 | 100163716 - 100759201 | | TRUE | FALSE |
| | 2 | 100163716 - 100759201 | F - 28.57% | TRUE | FALSE |
| | 2 | 100163716 - 100759201 | | TRUE | TRUE |
| | 2 | 100163716 - 100759201 | F - 3.57% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 100163716 - 100759201 | F - 3.57% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | T - 57.14% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | F - 7.14% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | T - 75.00% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | F - 39.29% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 2 | 100163716 - 100759201 | F - 32.14% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | F - 17.86% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 2 | 100163716 - 100759201 | T - 53.57% | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 2 | 100163716 - 100759201 | | TRUE | TRUE |
| 3 | 14444076 - 14530857 | | TRUE | TRUE |
| 3 | 14444076 - 14530857 | | TRUE | TRUE |
| 3 | 14444076 - 14530857 | | TRUE | TRUE |
| 3 | 14444076 - 14530857 | F - 5.26% | TRUE | TRUE |
| 3 | 122399465 - 122449687 | F - 6.67% | TRUE | TRUE |
| 3 | 122399465 - 122449687 | | TRUE | TRUE |
| 3 | 122399465 - 122449687 | F - 46.67% | TRUE | TRUE |
| 3 | 122399465 - 122449687 | F - 13.33% | TRUE | TRUE |
| 3 | 122399465 - 122449687 | | TRUE | TRUE |
| 3 | 122399465 - 122449687 | F - 40.00% | TRUE | TRUE |
| 3 | 122399465 - 122449687 | T - 80.00% | TRUE | TRUE |
| 3 | 50384761 - 50388522 | | TRUE | FALSE |
| 3 | 50384761 - 50388522 | F - 9.52% | TRUE | TRUE |
| 3 | 50384761 - 50388522 | F - 9.52% | TRUE | TRUE |
| 8 | 27947190 - 28048673 | F - 33.33% | TRUE | TRUE |
| 8 | 27947190 - 28048673 | | TRUE | TRUE |
| 8 | 27947190 - 28048673 | | FALSE | TRUE |
| 9 | 77675489 - 77703133 | F - 9.09% | TRUE | FALSE |
| 9 | 77675489 - 77703133 | | TRUE | TRUE |
| 9 | 77675489 - 77703133 | F - 9.09% | TRUE | TRUE |
| 9 | 77675489 - 77703133 | F - 9.09% | TRUE | TRUE |
| 9 | 77675489 - 77703133 | | TRUE | TRUE |
| 9 | 77675489 - 77703133 | T - 63.64% | FALSE | TRUE |
| 9 | 77675489 - 77703133 | F - 18.18% | TRUE | TRUE |
| 11 | 15133970 - 15268754 | T - 92.86% | TRUE | TRUE |
| 11 | 15133970 - 15268754 | | TRUE | FALSE |
| 11 | 15133970 - 15268754 | F - 14.29% | TRUE | TRUE |
| 11 | 15133970 - 15268754 | F - 14.29% | TRUE | TRUE |
| 12 | 31824071 - 31882108 | T - 53.85% | TRUE | FALSE |
| 12 | 31824071 - 31882108 | F - 38.46% | TRUE | FALSE |
| 12 | 31824071 - 31882108 | T - 76.92% | TRUE | TRUE |
| 12 | 31824071 - 31882108 | | TRUE | TRUE |
| 12 | 31824071 - 31882108 | T - 61.54% | TRUE | TRUE |
| 12 | 31824071 - 31882108 | F - 15.38% | TRUE | TRUE |
| 12 | 31824071 - 31882108 | | TRUE | TRUE |
| 12 | 32943679 - 33049780 | | TRUE | FALSE |
| 12 | 32943679 - 33049780 | | TRUE | FALSE |
| 12 | 32943679 - 33049780 | | TRUE | FALSE |
| 12 | 32943679 - 33049780 | T - 77.78% | TRUE | TRUE |
| 12 | 32943679 - 33049780 | T - 88.89% | TRUE | FALSE |
| 12 | 32943679 - 33049780 | T - 88.89% | TRUE | TRUE |
| 12 | 32943679 - 33049780 | T - 100.00% | TRUE | TRUE |
| 12 | 32943679 - 33049780 | F - 44.44% | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|------------|-------|-------|
| | 12 | 32943679 - 33049780 | | FALSE | TRUE |
| | 12 | 32943679 - 33049780 | F - 11.11% | FALSE | TRUE |
| | 12 | 32943679 - 33049780 | F - 33.33% | TRUE | TRUE |
| | 12 | 32943679 - 33049780 | | FALSE | TRUE |
| | 17 | 16592851 - 16681195 | F - 5.88% | TRUE | TRUE |
| | 17 | 16592851 - 16681195 | F - 29.41% | TRUE | TRUE |
| | 17 | 16592851 - 16681195 | | TRUE | TRUE |
| | 22 | 25960816 - 26125258 | | TRUE | FALSE |
| | 22 | 25960816 - 26125258 | F - 12.50% | TRUE | TRUE |
| | 22 | 25960816 - 26125258 | | TRUE | TRUE |
| | 22 | 25960816 - 26125258 | | TRUE | TRUE |
| | 22 | 25960816 - 26125258 | | TRUE | FALSE |
| | 22 | 25960816 - 26125258 | T - 50.00% | FALSE | TRUE |
| | 22 | 25960816 - 26125258 | | FALSE | TRUE |
| 6_apd_hap1 | | 2812684 - 2821649 | | TRUE | TRUE |
| 6_apd_hap1 | | 2812684 - 2821649 | F - 7.69% | FALSE | TRUE |
| 6_apd_hap1 | | 2812684 - 2821649 | F - 3.85% | FALSE | TRUE |
| | 1 | 97543299 - 98386615 | | TRUE | FALSE |
| | 1 | 97543299 - 98386615 | F - 44.44% | FALSE | TRUE |
| | 4 | 2936626 - 2963465 | | TRUE | TRUE |
| | 4 | 2936626 - 2963465 | F - 40.00% | TRUE | TRUE |
| | 5 | 140026643 - 140042065 | | TRUE | TRUE |
| | 5 | 140026643 - 140042065 | | TRUE | FALSE |
| | 5 | 140026643 - 140042065 | F - 5.56% | TRUE | TRUE |
| | 5 | 176910395 - 176924607 | | TRUE | TRUE |
| | 5 | 176910395 - 176924607 | F - 3.70% | TRUE | TRUE |
| | 5 | 176910395 - 176924607 | | TRUE | TRUE |
| | 5 | 176910395 - 176924607 | F - 3.70% | TRUE | TRUE |
| | 5 | 176910395 - 176924607 | T - 70.37% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | T - 75.00% | TRUE | FALSE |
| | 7 | 8152814 - 8302317 | | TRUE | FALSE |
| | 7 | 8152814 - 8302317 | | TRUE | FALSE |
| | 7 | 8152814 - 8302317 | T - 78.57% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | T - 78.57% | TRUE | FALSE |
| | 7 | 8152814 - 8302317 | | TRUE | FALSE |
| | 7 | 8152814 - 8302317 | T - 64.29% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | F - 7.14% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | F - 28.57% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | T - 57.14% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | F - 7.14% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | F - 35.71% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | F - 3.57% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | F - 7.14% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | F - 35.71% | TRUE | TRUE |
| | 7 | 8152814 - 8302317 | F - 3.57% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | F - 3.57% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | F - 7.14% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | T - 82.14% | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | | FALSE | TRUE |
| | 7 | 8152814 - 8302317 | | FALSE | TRUE |
| | 8 | 82613566 - 82645138 | | TRUE | TRUE |
| | 8 | 82613566 - 82645138 | | TRUE | TRUE |
| | 8 | 82613566 - 82645138 | F - 11.43% | FALSE | TRUE |
| | 8 | 82613566 - 82645138 | | FALSE | TRUE |
| X | | 135228861 - 135293518 | | TRUE | TRUE |
| X | | 135228861 - 135293518 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| X | 135228861 - 135293518 | F - 13.33% | TRUE | TRUE |
| X | 135228861 - 135293518 | F - 23.33% | TRUE | TRUE |
| X | 135228861 - 135293518 | F - 3.33% | TRUE | TRUE |
| X | 135228861 - 135293518 | | FALSE | TRUE |
| X | 135228861 - 135293518 | F - 3.33% | FALSE | TRUE |
| X | 135228861 - 135293518 | F - 6.67% | FALSE | TRUE |
| 10 | 118609023 - 118671297 | | TRUE | TRUE |
| 10 | 118609023 - 118671297 | | TRUE | TRUE |
| 10 | 118609023 - 118671297 | T - 50.00% | TRUE | TRUE |
| 10 | 118609023 - 118671297 | | TRUE | TRUE |
| 10 | 118609023 - 118671297 | | TRUE | FALSE |
| 10 | 118609023 - 118671297 | T - 66.67% | TRUE | TRUE |
| 13 | 21727734 - 21750741 | T - 60.00% | TRUE | TRUE |
| 13 | 21727734 - 21750741 | T - 90.00% | TRUE | TRUE |
| 13 | 21727734 - 21750741 | | FALSE | TRUE |
| 13 | 21727734 - 21750741 | F - 10.00% | TRUE | TRUE |
| 13 | 21727734 - 21750741 | T - 70.00% | TRUE | TRUE |
| 13 | 21727734 - 21750741 | T - 100.00% | TRUE | TRUE |
| 15 | 59397277 - 59417244 | T - 75.00% | TRUE | TRUE |
| 15 | 59397277 - 59417244 | T - 100.00% | TRUE | TRUE |
| 15 | 59397277 - 59417244 | T - 100.00% | TRUE | TRUE |
| 15 | 59397277 - 59417244 | T - 100.00% | FALSE | TRUE |
| 15 | 59397277 - 59417244 | | FALSE | TRUE |
| 15 | 59397277 - 59417244 | | TRUE | TRUE |
| 17 | 46668619 - 46671323 | | TRUE | TRUE |
| 17 | 46668619 - 46671323 | F - 33.33% | TRUE | TRUE |
| 22 | 44395091 - 44565112 | F - 7.14% | TRUE | FALSE |
| 22 | 44395091 - 44565112 | | TRUE | TRUE |
| 22 | 44395091 - 44565112 | F - 14.29% | TRUE | TRUE |
| 1 | 19542158 - 19578046 | F - 5.00% | TRUE | TRUE |
| 1 | 19542158 - 19578046 | F - 5.00% | TRUE | TRUE |
| 1 | 19542158 - 19578046 | | TRUE | TRUE |
| 1 | 19542158 - 19578046 | F - 5.00% | TRUE | TRUE |
| 1 | 19542158 - 19578046 | F - 5.00% | TRUE | TRUE |
| 1 | 19542158 - 19578046 | F - 5.00% | TRUE | TRUE |
| 1 | 19542158 - 19578046 | | TRUE | TRUE |
| 1 | 19542158 - 19578046 | | TRUE | TRUE |
| 1 | 236712305 - 236767841 | | TRUE | TRUE |
| 1 | 236712305 - 236767841 | | TRUE | TRUE |
| 1 | 236712305 - 236767841 | T - 55.56% | TRUE | TRUE |
| 1 | 236712305 - 236767841 | | TRUE | TRUE |
| 1 | 236712305 - 236767841 | | FALSE | TRUE |
| 2 | 74776147 - 74784681 | F - 8.70% | TRUE | TRUE |
| 2 | 74776147 - 74784681 | F - 4.35% | TRUE | TRUE |
| 2 | 74776147 - 74784681 | F - 13.04% | TRUE | TRUE |
| 2 | 74776147 - 74784681 | | TRUE | TRUE |
| 2 | 74776147 - 74784681 | | TRUE | TRUE |
| 2 | 74776147 - 74784681 | | FALSE | TRUE |
| 2 | 74776147 - 74784681 | | FALSE | TRUE |
| 2 | 157180944 - 157198860 | F - 16.67% | TRUE | TRUE |
| 2 | 157180944 - 157198860 | | TRUE | TRUE |
| 2 | 157180944 - 157198860 | | FALSE | TRUE |
| 2 | 157180944 - 157198860 | F - 5.56% | TRUE | TRUE |
| 2 | 157180944 - 157198860 | T - 83.33% | TRUE | TRUE |
| 2 | 157180944 - 157198860 | T - 77.78% | FALSE | TRUE |
| 2 | 157180944 - 157198860 | T - 77.78% | TRUE | TRUE |
| 2 | 157180944 - 157198860 | T - 61.11% | TRUE | TRUE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | T - 62.50% | TRUE | TRUE |
| 4 | 83405604 - 83483510 | | TRUE | FALSE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | T - 75.00% | TRUE | TRUE |
| 4 | 83405604 - 83483510 | F - 37.50% | TRUE | FALSE |
| 4 | 83405604 - 83483510 | | TRUE | TRUE |
| 4 | 83405604 - 83483510 | T - 75.00% | TRUE | FALSE |
| 4 | 83405604 - 83483510 | F - 25.00% | TRUE | TRUE |
| 4 | 83405604 - 83483510 | F - 12.50% | TRUE | TRUE |
| 4 | 83405604 - 83483510 | F - 12.50% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 3.85% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 3.85% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 3.85% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 3.85% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | | FALSE | TRUE |
| 5 | 179233388 - 179265078 | F - 7.69% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 11.54% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 26.92% | TRUE | TRUE |
| 5 | 179233388 - 179265078 | | TRUE | TRUE |
| 5 | 179233388 - 179265078 | F - 46.15% | TRUE | TRUE |
| 6 | 31321649 - 31324989 | | TRUE | TRUE |
| 6 | 31321649 - 31324989 | F - 11.11% | TRUE | TRUE |
| 6 | 31321649 - 31324989 | | TRUE | TRUE |
| 6 | 31321649 - 31324989 | F - 11.11% | TRUE | TRUE |
| 6 | 31321649 - 31324989 | F - 44.44% | TRUE | TRUE |
| 6 | 31321649 - 31324989 | | TRUE | TRUE |
| 6 | 31321649 - 31324989 | T - 61.11% | TRUE | TRUE |
| 9 | 108210077 - 108314714 | | TRUE | FALSE |
| 9 | 108210077 - 108314714 | T - 82.35% | TRUE | TRUE |
| 9 | 108210077 - 108314714 | | FALSE | TRUE |
| 9 | 108210077 - 108314714 | | TRUE | TRUE |
| 9 | 108210077 - 108314714 | | FALSE | TRUE |
| 9 | 108210077 - 108314714 | | FALSE | TRUE |
| 9 | 33921691 - 34048947 | | TRUE | FALSE |
| 9 | 33921691 - 34048947 | F - 3.57% | TRUE | TRUE |
| 9 | 33921691 - 34048947 | | TRUE | TRUE |
| 9 | 33921691 - 34048947 | F - 3.57% | FALSE | TRUE |
| 10 | 104005255 - 104142656 | F - 12.50% | TRUE | TRUE |
| 10 | 104005255 - 104142656 | | TRUE | TRUE |
| 10 | 104503727 - 104591851 | | TRUE | TRUE |
| 10 | 104503727 - 104591851 | F - 14.29% | TRUE | TRUE |
| 10 | 104503727 - 104591851 | F - 14.29% | TRUE | TRUE |
| 10 | 104503727 - 104591851 | F - 14.29% | TRUE | TRUE |
| 10 | 104503727 - 104591851 | | FALSE | TRUE |
| 10 | 104503727 - 104591851 | F - 14.29% | TRUE | TRUE |
| 10 | 104503727 - 104591851 | | TRUE | TRUE |
| 10 | 7792925 - 7829990 | | TRUE | FALSE |
| 10 | 7792925 - 7829990 | T - 100.00% | TRUE | TRUE |
| 10 | 7792925 - 7829990 | | FALSE | TRUE |
| 10 | 7792925 - 7829990 | | TRUE | TRUE |
| 11 | 47799639 - 47870107 | | TRUE | FALSE |
| 11 | 47799639 - 47870107 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 47799639 - 47870107 | | FALSE | TRUE |
| 11 | 47799639 - 47870107 | | TRUE | TRUE |
| 11 | 47799639 - 47870107 | T - 69.23% | TRUE | TRUE |
| 11 | 47799639 - 47870107 | | FALSE | TRUE |
| 11 | 18259780 - 18270221 | T - 90.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | T - 90.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | T - 80.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | T - 50.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | F - 30.00% | TRUE | FALSE |
| 11 | 18259780 - 18270221 | F - 10.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | F - 10.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | F - 20.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | F - 20.00% | TRUE | FALSE |
| 11 | 18259780 - 18270221 | F - 10.00% | TRUE | TRUE |
| 11 | 18259780 - 18270221 | | TRUE | TRUE |
| 11 | 18259780 - 18270221 | | FALSE | TRUE |
| 20 | 13976015 - 16033842 | | TRUE | TRUE |
| 20 | 13976015 - 16033842 | F - 40.91% | TRUE | TRUE |
| 20 | 13976015 - 16033842 | | TRUE | TRUE |
| 20 | 13976015 - 16033842 | F - 9.09% | TRUE | TRUE |
| 3 | 11597544 - 11766453 | | TRUE | FALSE |
| 3 | 11597544 - 11766453 | | TRUE | TRUE |
| 3 | 11597544 - 11766453 | | TRUE | TRUE |
| 3 | 11597544 - 11766453 | F - 4.00% | TRUE | TRUE |
| 3 | 11597544 - 11766453 | F - 4.00% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | TRUE | TRUE |
| 3 | 57124010 - 57204334 | F - 25.00% | FALSE | TRUE |
| 3 | 57124010 - 57204334 | F - 8.33% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | F - 16.67% | FALSE | TRUE |
| 3 | 57124010 - 57204334 | F - 8.33% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | TRUE | TRUE |
| 3 | 57124010 - 57204334 | F - 16.67% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | T - 83.33% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | TRUE | TRUE |
| 3 | 57124010 - 57204334 | F - 16.67% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | F - 25.00% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | TRUE | TRUE |
| 3 | 57124010 - 57204334 | | FALSE | TRUE |
| 3 | 57124010 - 57204334 | T - 75.00% | TRUE | TRUE |
| 3 | 57124010 - 57204334 | T - 83.33% | TRUE | TRUE |
| 3 | 167401086 - 167452727 | | TRUE | TRUE |
| 3 | 167401086 - 167452727 | | TRUE | TRUE |
| 3 | 167401086 - 167452727 | T - 60.87% | TRUE | TRUE |
| 3 | 167401086 - 167452727 | | FALSE | TRUE |
| 4 | 187508937 - 187647876 | | TRUE | TRUE |
| 4 | 187508937 - 187647876 | | TRUE | TRUE |
| 4 | 187508937 - 187647876 | F - 20.00% | TRUE | TRUE |
| 4 | 187508937 - 187647876 | F - 13.33% | FALSE | TRUE |
| 6 | 64345725 - 64489229 | | TRUE | FALSE |
| 6 | 64345725 - 64489229 | F - 4.76% | TRUE | FALSE |
| 6 | 64345725 - 64489229 | F - 9.52% | TRUE | TRUE |
| 13 | 26706253 - 26796791 | F - 21.43% | TRUE | FALSE |
| 13 | 26706253 - 26796791 | | TRUE | TRUE |
| 19 | 49471382 - 49496610 | F - 6.67% | TRUE | TRUE |
| 19 | 49471382 - 49496610 | F - 6.67% | FALSE | TRUE |
| 19 | 49471382 - 49496610 | F - 6.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 19 | 49471382 - 49496610 | | TRUE | TRUE |
| 19 | 49471382 - 49496610 | | TRUE | TRUE |
| 19 | 49471382 - 49496610 | | FALSE | TRUE |
| 21 | 35552978 - 35562220 | | TRUE | TRUE |
| 21 | 35552978 - 35562220 | | TRUE | TRUE |
| 21 | 35552978 - 35562220 | | TRUE | TRUE |
| 21 | 35552978 - 35562220 | F - 20.00% | TRUE | TRUE |
| 21 | 35552978 - 35562220 | | TRUE | TRUE |
| 1 | 148555979 - 148596267 | | TRUE | FALSE |
| 1 | 148555979 - 148596267 | F - 40.00% | TRUE | TRUE |
| 1 | 148555979 - 148596267 | | TRUE | TRUE |
| 4 | 108968701 - 109090112 | | TRUE | FALSE |
| 4 | 108968701 - 109090112 | F - 13.79% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 13.79% | TRUE | FALSE |
| 4 | 108968701 - 109090112 | F - 3.45% | TRUE | FALSE |
| 4 | 108968701 - 109090112 | T - 51.72% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 10.34% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 6.90% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 6.90% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 10.34% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 13.79% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 6.90% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 3.45% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 3.45% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 10.34% | FALSE | TRUE |
| 4 | 108968701 - 109090112 | | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 3.45% | TRUE | TRUE |
| 4 | 108968701 - 109090112 | F - 3.45% | FALSE | TRUE |
| 4 | 108968701 - 109090112 | | FALSE | TRUE |
| 6 | 29909037 - 29913661 | F - 4.55% | TRUE | TRUE |
| 6 | 29909037 - 29913661 | F - 4.55% | FALSE | TRUE |
| 6 | 29909037 - 29913661 | F - 4.55% | TRUE | TRUE |
| 6 | 29909037 - 29913661 | F - 4.55% | TRUE | TRUE |
| 6 | 29909037 - 29913661 | F - 4.55% | FALSE | TRUE |
| 6 | 29909037 - 29913661 | F - 27.27% | TRUE | TRUE |
| 6 | 29909037 - 29913661 | F - 31.82% | FALSE | TRUE |
| 6 | 29909037 - 29913661 | F - 18.18% | FALSE | TRUE |
| 6 | 29909037 - 29913661 | | FALSE | TRUE |
| 6 | 29909037 - 29913661 | F - 9.09% | FALSE | TRUE |
| 6 | 29909037 - 29913661 | | FALSE | TRUE |
| 6 | 29909037 - 29913661 | | FALSE | TRUE |
| 6 | 29909037 - 29913661 | T - 86.36% | TRUE | TRUE |
| 6 | 99880184 - 99969604 | | TRUE | TRUE |
| 6 | 99880184 - 99969604 | F - 4.35% | TRUE | TRUE |
| 6 | 99880184 - 99969604 | | FALSE | TRUE |
| 7 | 141404138 - 141438146 | T - 71.43% | TRUE | TRUE |
| 7 | 141404138 - 141438146 | F - 28.57% | TRUE | TRUE |
| 7 | 141404138 - 141438146 | | FALSE | TRUE |
| 7 | 141404138 - 141438146 | F - 35.71% | FALSE | TRUE |
| 8 | 26371547 - 26515694 | | TRUE | TRUE |
| 8 | 26371547 - 26515694 | F - 31.25% | TRUE | TRUE |
| 8 | 26371547 - 26515694 | F - 6.25% | TRUE | TRUE |
| 8 | 26371547 - 26515694 | F - 6.25% | FALSE | TRUE |
| 8 | 26371547 - 26515694 | F - 6.25% | FALSE | TRUE |
| 8 | 26371547 - 26515694 | F - 12.50% | TRUE | TRUE |

| | | | | | |
|-------------|----|-----------------------|------------|-------|-------|
| | 8 | 26371547 - 26515694 | | FALSE | TRUE |
| | 8 | 26371547 - 26515694 | F - 12.50% | TRUE | TRUE |
| | 8 | 26371547 - 26515694 | F - 6.25% | TRUE | TRUE |
| | 8 | 26371547 - 26515694 | | FALSE | TRUE |
| | 8 | 26371547 - 26515694 | F - 6.25% | FALSE | TRUE |
| | 8 | 26371547 - 26515694 | | FALSE | TRUE |
| | 8 | 26371547 - 26515694 | | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | F - 42.86% | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | F - 28.57% | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | F - 14.29% | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | F - 14.29% | TRUE | TRUE |
| | 8 | 143845752 - 143859640 | F - 7.14% | TRUE | TRUE |
| X | | 3522384 - 3631675 | F - 14.29% | TRUE | TRUE |
| X | | 3522384 - 3631675 | | TRUE | TRUE |
| X | | 3522384 - 3631675 | F - 42.86% | TRUE | TRUE |
| X | | 3522384 - 3631675 | F - 28.57% | TRUE | TRUE |
| X | | 3522384 - 3631675 | F - 42.86% | TRUE | TRUE |
| X | | 3522384 - 3631675 | | FALSE | TRUE |
| | 12 | 88442790 - 88535993 | | TRUE | FALSE |
| | 12 | 88442790 - 88535993 | | TRUE | FALSE |
| | 12 | 88442790 - 88535993 | | TRUE | TRUE |
| | 12 | 88442790 - 88535993 | F - 33.33% | TRUE | TRUE |
| | 12 | 88442790 - 88535993 | | FALSE | TRUE |
| | 12 | 88442790 - 88535993 | | FALSE | TRUE |
| | 12 | 88442790 - 88535993 | | FALSE | TRUE |
| | 15 | 55903739 - 56035288 | T - 50.00% | TRUE | TRUE |
| | 15 | 55903739 - 56035288 | | TRUE | TRUE |
| | 15 | 55903739 - 56035288 | | FALSE | TRUE |
| | 21 | 9907189 - 9968593 | | TRUE | TRUE |
| | 21 | 9907189 - 9968593 | | TRUE | TRUE |
| | 21 | 9907189 - 9968593 | | TRUE | TRUE |
| | 21 | 9907189 - 9968593 | F - 25.00% | TRUE | TRUE |
| 6_mcf_hap5 | | 2701429 - 2704815 | | TRUE | TRUE |
| 6_mcf_hap5 | | 2701429 - 2704815 | | TRUE | TRUE |
| 6_mcf_hap5 | | 2701429 - 2704815 | F - 11.76% | TRUE | TRUE |
| 6_mcf_hap5 | | 2701429 - 2704815 | | TRUE | TRUE |
| 6_mcf_hap5 | | 2701429 - 2704815 | T - 52.94% | TRUE | TRUE |
| 6_mcf_hap5 | | 2701429 - 2704815 | F - 5.88% | TRUE | TRUE |
| 6_ssto_hap7 | | 4239267 - 4243485 | T - 87.50% | TRUE | TRUE |
| 6_ssto_hap7 | | 4239267 - 4243485 | | TRUE | TRUE |
| 6_ssto_hap7 | | 4239267 - 4243485 | T - 87.50% | FALSE | TRUE |
| 6_ssto_hap7 | | 2828801 - 2841057 | | TRUE | TRUE |
| 6_ssto_hap7 | | 2828801 - 2841057 | F - 8.82% | TRUE | TRUE |
| 6_ssto_hap7 | | 2828801 - 2841057 | F - 5.88% | TRUE | TRUE |
| 6_ssto_hap7 | | 2828801 - 2841057 | F - 5.88% | FALSE | TRUE |
| 6_ssto_hap7 | | 2828801 - 2841057 | F - 2.94% | FALSE | TRUE |
| | 1 | 224572845 - 224624735 | | TRUE | TRUE |
| | 1 | 224572845 - 224624735 | F - 5.56% | TRUE | TRUE |
| | 1 | 55107427 - 55175939 | | TRUE | FALSE |
| | 1 | 55107427 - 55175939 | T - 63.33% | TRUE | TRUE |
| | 1 | 55107427 - 55175939 | F - 40.00% | TRUE | TRUE |
| | 2 | 61704984 - 61765761 | | TRUE | TRUE |
| | 2 | 61704984 - 61765761 | F - 9.38% | TRUE | TRUE |
| | 2 | 61704984 - 61765761 | F - 28.13% | TRUE | TRUE |
| | 2 | 61704984 - 61765761 | F - 9.38% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 2 | 61704984 - 61765761 | F - 15.63% | FALSE | TRUE |
| | 2 | 61704984 - 61765761 | F - 6.25% | TRUE | TRUE |
| | 2 | 61704984 - 61765761 | F - 9.38% | FALSE | TRUE |
| | 2 | 61704984 - 61765761 | F - 15.63% | TRUE | TRUE |
| | 6 | 170151721 - 170181680 | | TRUE | TRUE |
| | 6 | 170151721 - 170181680 | T - 100.00% | TRUE | TRUE |
| | 6 | 170151721 - 170181680 | | FALSE | TRUE |
| | 6 | 170151721 - 170181680 | T - 63.64% | TRUE | TRUE |
| | 7 | 86781677 - 86825648 | | TRUE | TRUE |
| | 7 | 86781677 - 86825648 | F - 18.92% | TRUE | TRUE |
| | 7 | 86781677 - 86825648 | F - 10.81% | FALSE | TRUE |
| | 7 | 86781677 - 86825648 | T - 78.38% | FALSE | TRUE |
| | 7 | 142231573 - 142232120 | | TRUE | TRUE |
| | 7 | 142231573 - 142232120 | T - 66.67% | TRUE | TRUE |
| | 8 | 2584858 - 2680004 | | TRUE | FALSE |
| | 8 | 2584858 - 2680004 | T - 100.00% | TRUE | TRUE |
| X | | 10124985 - 10205700 | | TRUE | TRUE |
| X | | 10124985 - 10205700 | | TRUE | TRUE |
| X | | 10124985 - 10205700 | F - 37.50% | TRUE | TRUE |
| X | | 10124985 - 10205700 | | TRUE | TRUE |
| X | | 10124985 - 10205700 | | TRUE | TRUE |
| X | | 154006959 - 154049282 | F - 4.00% | TRUE | TRUE |
| X | | 154006959 - 154049282 | | TRUE | TRUE |
| X | | 154006959 - 154049282 | | TRUE | TRUE |
| X | | 154006959 - 154049282 | F - 12.00% | TRUE | TRUE |
| X | | 154006959 - 154049282 | | FALSE | TRUE |
| | 12 | 122355768 - 122441833 | | TRUE | TRUE |
| | 12 | 122355768 - 122441833 | T - 85.71% | TRUE | TRUE |
| | 12 | 122355768 - 122441833 | | TRUE | TRUE |
| | 12 | 122355768 - 122441833 | | TRUE | TRUE |
| | 13 | 24304328 - 24463587 | | TRUE | TRUE |
| | 13 | 24304328 - 24463587 | | TRUE | TRUE |
| | 13 | 24304328 - 24463587 | | TRUE | TRUE |
| | 13 | 24304328 - 24463587 | | TRUE | TRUE |
| | 13 | 24304328 - 24463587 | F - 42.86% | TRUE | TRUE |
| | 18 | 10454543 - 10488698 | | TRUE | TRUE |
| | 18 | 10454543 - 10488698 | T - 100.00% | TRUE | TRUE |
| | 18 | 10454543 - 10488698 | T - 100.00% | TRUE | TRUE |
| | 18 | 10454543 - 10488698 | T - 100.00% | TRUE | TRUE |
| | 18 | 10454543 - 10488698 | T - 66.67% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 28.57% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 35.71% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 28.57% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 14.29% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 21.43% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 21.43% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 35.71% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 35.71% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 7.14% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 21.43% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 28.57% | TRUE | TRUE |
| | 1 | 35641979 - 35658749 | F - 28.57% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 35641979 - 35658749 | | TRUE | TRUE |
| 1 | 35641979 - 35658749 | | FALSE | TRUE |
| 2 | 220094479 - 220101391 | F - 2.94% | TRUE | TRUE |
| 2 | 220094479 - 220101391 | | TRUE | TRUE |
| 2 | 220094479 - 220101391 | | TRUE | TRUE |
| 2 | 220094479 - 220101391 | F - 5.88% | FALSE | TRUE |
| 2 | 220094479 - 220101391 | F - 8.82% | FALSE | TRUE |
| 2 | 220094479 - 220101391 | F - 2.94% | TRUE | TRUE |
| 2 | 38522022 - 38604432 | | TRUE | FALSE |
| 2 | 38522022 - 38604432 | | TRUE | TRUE |
| 2 | 38522022 - 38604432 | | TRUE | TRUE |
| 2 | 38522022 - 38604432 | | TRUE | FALSE |
| 2 | 38522022 - 38604432 | F - 46.15% | TRUE | TRUE |
| 2 | 38522022 - 38604432 | | TRUE | TRUE |
| 2 | 110879888 - 110962643 | | TRUE | FALSE |
| 2 | 110879888 - 110962643 | | TRUE | TRUE |
| 2 | 110879888 - 110962643 | | TRUE | TRUE |
| 2 | 110879888 - 110962643 | | TRUE | TRUE |
| 2 | 110879888 - 110962643 | | FALSE | TRUE |
| 2 | 110879888 - 110962643 | F - 15.00% | FALSE | TRUE |
| 2 | 110879888 - 110962643 | | TRUE | TRUE |
| 3 | 185000729 - 185206885 | | TRUE | TRUE |
| 3 | 185000729 - 185206885 | | TRUE | TRUE |
| 3 | 185000729 - 185206885 | | TRUE | TRUE |
| 3 | 185000729 - 185206885 | F - 4.76% | TRUE | FALSE |
| 3 | 185000729 - 185206885 | F - 4.76% | TRUE | TRUE |
| 3 | 185000729 - 185206885 | | TRUE | TRUE |
| 5 | 83236373 - 83680611 | F - 12.50% | TRUE | TRUE |
| 5 | 83236373 - 83680611 | | TRUE | TRUE |
| 6 | 150920999 - 151164799 | T - 77.78% | TRUE | FALSE |
| 6 | 150920999 - 151164799 | | TRUE | FALSE |
| 6 | 150920999 - 151164799 | | TRUE | FALSE |
| 6 | 150920999 - 151164799 | | TRUE | TRUE |
| 6 | 150920999 - 151164799 | T - 88.89% | TRUE | TRUE |
| 6 | 150920999 - 151164799 | | FALSE | TRUE |
| 6 | 150920999 - 151164799 | T - 88.89% | FALSE | TRUE |
| 7 | 89874488 - 89940377 | | TRUE | FALSE |
| 7 | 89874488 - 89940377 | | TRUE | FALSE |
| 7 | 89874488 - 89940377 | F - 38.10% | TRUE | TRUE |
| 7 | 89874488 - 89940377 | | TRUE | TRUE |
| 7 | 89874488 - 89940377 | | TRUE | TRUE |
| 7 | 89874488 - 89940377 | | TRUE | TRUE |
| 7 | 89874488 - 89940377 | F - 4.76% | FALSE | TRUE |
| 9 | 114758832 - 115112545 | | TRUE | TRUE |
| 9 | 114758832 - 115112545 | F - 29.41% | TRUE | TRUE |
| 15 | 72114632 - 72410440 | | TRUE | TRUE |
| 15 | 72114632 - 72410440 | | TRUE | FALSE |
| 15 | 72114632 - 72410440 | | TRUE | TRUE |
| 15 | 72114632 - 72410440 | | TRUE | FALSE |
| 15 | 72114632 - 72410440 | T - 84.62% | TRUE | TRUE |
| 15 | 72114632 - 72410440 | | FALSE | TRUE |
| 17 | 40761358 - 40767256 | | TRUE | TRUE |
| 17 | 40761358 - 40767256 | T - 66.67% | TRUE | TRUE |
| 17 | 18441115 - 18528930 | | TRUE | FALSE |
| 17 | 18441115 - 18528930 | F - 27.27% | TRUE | TRUE |
| 17 | 18441115 - 18528930 | F - 27.27% | TRUE | TRUE |
| 17 | 18441115 - 18528930 | | TRUE | TRUE |
| 17 | 18441115 - 18528930 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 17 | 18441115 - 18528930 | F - 27.27% | TRUE | TRUE |
| 17 | 18441115 - 18528930 | | TRUE | TRUE |
| 17 | 18441115 - 18528930 | | TRUE | TRUE |
| 22 | 25747385 - 25801344 | T - 84.62% | TRUE | TRUE |
| 22 | 25747385 - 25801344 | F - 15.38% | TRUE | TRUE |
| 22 | 25747385 - 25801344 | F - 15.38% | TRUE | FALSE |
| 22 | 25747385 - 25801344 | F - 23.08% | FALSE | TRUE |
| 22 | 25747385 - 25801344 | | TRUE | TRUE |
| 22 | 25747385 - 25801344 | F - 7.69% | TRUE | TRUE |
| 22 | 25747385 - 25801344 | | TRUE | TRUE |
| 22 | 25747385 - 25801344 | F - 15.38% | TRUE | TRUE |
| 22 | 25747385 - 25801344 | | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | F - 2.70% | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | F - 8.11% | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | F - 8.11% | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | F - 2.70% | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | F - 29.73% | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | | TRUE | TRUE |
| 6_cox_hap2 | 3116416 - 3130101 | F - 2.70% | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | F - 2.70% | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | F - 8.11% | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | F - 8.11% | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | F - 29.73% | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | | TRUE | TRUE |
| 6_dbb_hap3 | 2892376 - 2906061 | F - 2.70% | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | F - 2.70% | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | F - 8.11% | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | F - 8.11% | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | F - 29.73% | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | | TRUE | TRUE |
| 6_mann_hap4 | 2949688 - 2963371 | F - 2.70% | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | F - 2.70% | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | F - 8.11% | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | F - 8.11% | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | F - 2.70% | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | F - 29.73% | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | | TRUE | TRUE |
| 6_ssto_hap7 | 2937602 - 2951281 | F - 2.70% | TRUE | TRUE |
| 1 | 174128548 - 174964445 | | TRUE | FALSE |
| 1 | 174128548 - 174964445 | F - 35.29% | TRUE | TRUE |
| 1 | 174128548 - 174964445 | | TRUE | TRUE |
| 1 | 174128548 - 174964445 | F - 2.94% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 174128548 - 174964445 | | TRUE | TRUE |
| 1 | 174128548 - 174964445 | F - 11.76% | FALSE | TRUE |
| 1 | 47140831 - 47184736 | T - 50.00% | TRUE | TRUE |
| 1 | 47140831 - 47184736 | | TRUE | TRUE |
| 2 | 70189395 - 70315686 | | TRUE | TRUE |
| 2 | 70189395 - 70315686 | | TRUE | TRUE |
| 2 | 70189395 - 70315686 | | TRUE | TRUE |
| 2 | 70189395 - 70315686 | F - 46.67% | TRUE | TRUE |
| 2 | 70189395 - 70315686 | | TRUE | FALSE |
| 2 | 70189395 - 70315686 | | FALSE | TRUE |
| 2 | 70189395 - 70315686 | | FALSE | TRUE |
| 2 | 70189395 - 70315686 | F - 6.67% | TRUE | TRUE |
| 2 | 70189395 - 70315686 | | TRUE | TRUE |
| 2 | 70189395 - 70315686 | | FALSE | TRUE |
| 3 | 32726637 - 32815367 | | TRUE | TRUE |
| 3 | 32726637 - 32815367 | | TRUE | TRUE |
| 3 | 32726637 - 32815367 | T - 62.07% | TRUE | TRUE |
| 3 | 32726637 - 32815367 | F - 3.45% | FALSE | TRUE |
| 5 | 138609441 - 138667366 | | TRUE | TRUE |
| 5 | 138609441 - 138667366 | | TRUE | FALSE |
| 5 | 138609441 - 138667366 | | TRUE | FALSE |
| 5 | 138609441 - 138667366 | | TRUE | TRUE |
| 5 | 138609441 - 138667366 | F - 4.84% | TRUE | TRUE |
| 5 | 138609441 - 138667366 | | TRUE | TRUE |
| 5 | 138609441 - 138667366 | F - 1.61% | TRUE | TRUE |
| 6 | 2832566 - 2842240 | F - 22.22% | TRUE | TRUE |
| 6 | 2832566 - 2842240 | F - 11.11% | FALSE | TRUE |
| 6 | 2832566 - 2842240 | | FALSE | TRUE |
| 6 | 31497996 - 31510252 | | TRUE | TRUE |
| 6 | 31497996 - 31510252 | F - 7.89% | TRUE | TRUE |
| 6 | 31497996 - 31510252 | | TRUE | TRUE |
| 6 | 31497996 - 31510252 | F - 5.26% | TRUE | TRUE |
| 6 | 31497996 - 31510252 | F - 15.79% | TRUE | TRUE |
| 6 | 31497996 - 31510252 | F - 18.42% | FALSE | TRUE |
| 6 | 31497996 - 31510252 | F - 2.63% | FALSE | TRUE |
| 6 | 31497996 - 31510252 | F - 5.26% | FALSE | TRUE |
| 7 | 131808091 - 132333447 | | TRUE | TRUE |
| 7 | 131808091 - 132333447 | | TRUE | TRUE |
| 7 | 131808091 - 132333447 | F - 25.00% | TRUE | TRUE |
| 7 | 131808091 - 132333447 | | TRUE | TRUE |
| 9 | 84198598 - 84304220 | | TRUE | TRUE |
| 9 | 84198598 - 84304220 | T - 50.00% | TRUE | TRUE |
| 9 | 84198598 - 84304220 | | TRUE | TRUE |
| 9 | 84198598 - 84304220 | | FALSE | TRUE |
| X | 6966961 - 7066231 | | TRUE | TRUE |
| X | 6966961 - 7066231 | F - 9.09% | TRUE | TRUE |
| X | 6966961 - 7066231 | | TRUE | TRUE |
| X | 6966961 - 7066231 | T - 54.55% | TRUE | TRUE |
| X | 6966961 - 7066231 | | TRUE | TRUE |
| X | 6966961 - 7066231 | | TRUE | TRUE |
| X | 6966961 - 7066231 | T - 72.73% | TRUE | TRUE |
| X | 53559057 - 53713673 | | TRUE | TRUE |
| X | 53559057 - 53713673 | | TRUE | FALSE |
| X | 53559057 - 53713673 | | TRUE | TRUE |
| X | 53559057 - 53713673 | F - 5.00% | TRUE | TRUE |
| X | 53559057 - 53713673 | | FALSE | TRUE |
| X | 53559057 - 53713673 | F - 25.00% | TRUE | TRUE |
| 12 | 95470525 - 95611240 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 95470525 - 95611240 | | TRUE | TRUE |
| 12 | 95470525 - 95611240 | T - 83.33% | TRUE | FALSE |
| 12 | 95470525 - 95611240 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | F - 9.09% | TRUE | TRUE |
| 15 | 72491370 - 72524163 | F - 31.82% | TRUE | TRUE |
| 15 | 72491370 - 72524163 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | | TRUE | TRUE |
| 15 | 72491370 - 72524163 | F - 18.18% | TRUE | TRUE |
| 15 | 72491370 - 72524163 | F - 40.91% | TRUE | TRUE |
| 17 | 74372742 - 74383941 | | TRUE | TRUE |
| 17 | 74372742 - 74383941 | F - 9.09% | TRUE | TRUE |
| 1 | 161284047 - 161334535 | | TRUE | TRUE |
| 1 | 161284047 - 161334535 | F - 5.88% | TRUE | FALSE |
| 1 | 161284047 - 161334535 | | TRUE | TRUE |
| 1 | 161284047 - 161334535 | | FALSE | TRUE |
| 1 | 161284047 - 161334535 | | FALSE | TRUE |
| 1 | 180123968 - 180173165 | F - 33.33% | TRUE | FALSE |
| 1 | 180123968 - 180173165 | | TRUE | TRUE |
| 1 | 180123968 - 180173165 | | FALSE | TRUE |
| 2 | 170335688 - 170363165 | | TRUE | TRUE |
| 2 | 170335688 - 170363165 | | TRUE | TRUE |
| 2 | 170335688 - 170363165 | F - 11.11% | FALSE | TRUE |
| 2 | 170335688 - 170363165 | | FALSE | TRUE |
| 2 | 170335688 - 170363165 | F - 44.44% | FALSE | TRUE |
| 2 | 170335688 - 170363165 | | TRUE | TRUE |
| 2 | 231191894 - 231268447 | F - 38.46% | TRUE | TRUE |
| 2 | 231191894 - 231268447 | | TRUE | TRUE |
| 2 | 231191894 - 231268447 | F - 7.69% | TRUE | TRUE |
| 2 | 231191894 - 231268447 | | FALSE | TRUE |
| 3 | 9944296 - 9958086 | F - 4.76% | TRUE | TRUE |
| 3 | 9944296 - 9958086 | T - 61.90% | TRUE | TRUE |
| 3 | 9944296 - 9958086 | | FALSE | TRUE |
| 3 | 9944296 - 9958086 | | FALSE | TRUE |
| 3 | 9944296 - 9958086 | T - 71.43% | FALSE | TRUE |
| 3 | 9944296 - 9958086 | T - 80.95% | FALSE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | T - 52.94% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | F - 47.06% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | T - 58.82% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | FALSE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | T - 58.82% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | F - 11.76% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | | TRUE | TRUE |
| 3 | 64501331 - 64673676 | F - 11.76% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | T - 52.94% | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 64501331 - 64673676 | F - 5.88% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | F - 11.76% | TRUE | TRUE |
| 3 | 64501331 - 64673676 | F - 17.65% | FALSE | TRUE |
| 4 | 106815932 - 106925184 | | TRUE | FALSE |
| 4 | 106815932 - 106925184 | T - 63.64% | TRUE | FALSE |
| 4 | 106815932 - 106925184 | | FALSE | TRUE |
| 4 | 106815932 - 106925184 | T - 54.55% | TRUE | TRUE |
| 4 | 106815932 - 106925184 | F - 40.91% | FALSE | TRUE |
| 4 | 106815932 - 106925184 | | TRUE | TRUE |
| 5 | 87485450 - 87565293 | F - 9.52% | TRUE | TRUE |
| 5 | 87485450 - 87565293 | | TRUE | TRUE |
| 5 | 87485450 - 87565293 | | TRUE | FALSE |
| 5 | 87485450 - 87565293 | | TRUE | TRUE |
| 5 | 87485450 - 87565293 | | TRUE | TRUE |
| 5 | 149781200 - 149792499 | F - 6.25% | TRUE | TRUE |
| 5 | 149781200 - 149792499 | F - 6.25% | TRUE | TRUE |
| 5 | 149781200 - 149792499 | F - 6.25% | TRUE | TRUE |
| 5 | 149781200 - 149792499 | F - 6.25% | TRUE | TRUE |
| 5 | 149781200 - 149792499 | T - 87.50% | FALSE | TRUE |
| 5 | 149781200 - 149792499 | | FALSE | TRUE |
| 5 | 149781200 - 149792499 | F - 31.25% | TRUE | TRUE |
| 5 | 149781200 - 149792499 | | FALSE | TRUE |
| 5 | 149781200 - 149792499 | T - 50.00% | FALSE | TRUE |
| 5 | 149781200 - 149792499 | T - 93.75% | TRUE | TRUE |
| 5 | 149781200 - 149792499 | | FALSE | TRUE |
| 6 | 90074335 - 90121995 | | TRUE | TRUE |
| 6 | 90074335 - 90121995 | T - 50.00% | TRUE | TRUE |
| 6 | 90074335 - 90121995 | F - 16.67% | TRUE | TRUE |
| 6 | 90074335 - 90121995 | | FALSE | TRUE |
| 7 | 137559725 - 137686847 | | FALSE | TRUE |
| 7 | 137559725 - 137686847 | | FALSE | TRUE |
| 7 | 137559725 - 137686847 | | TRUE | TRUE |
| 7 | 137559725 - 137686847 | F - 7.69% | TRUE | TRUE |
| 7 | 137559725 - 137686847 | | FALSE | TRUE |
| 7 | 137559725 - 137686847 | F - 7.69% | TRUE | TRUE |
| 8 | 56608983 - 56685966 | F - 18.18% | TRUE | TRUE |
| 8 | 56608983 - 56685966 | F - 9.09% | TRUE | TRUE |
| 8 | 56608983 - 56685966 | T - 59.09% | TRUE | TRUE |
| 8 | 56608983 - 56685966 | F - 4.55% | TRUE | TRUE |
| 8 | 56608983 - 56685966 | | FALSE | TRUE |
| 8 | 56608983 - 56685966 | | TRUE | TRUE |
| 9 | 134000948 - 134110057 | | TRUE | FALSE |
| 9 | 134000948 - 134110057 | | TRUE | TRUE |
| 9 | 134000948 - 134110057 | | TRUE | TRUE |
| 9 | 134000948 - 134110057 | F - 20.69% | TRUE | TRUE |
| 9 | 134000948 - 134110057 | | TRUE | TRUE |
| 9 | 134000948 - 134110057 | | TRUE | TRUE |
| 9 | 134000948 - 134110057 | | TRUE | TRUE |
| 12 | 104324112 - 104341704 | F - 12.50% | TRUE | TRUE |
| 12 | 104324112 - 104341704 | | FALSE | TRUE |
| 12 | 104324112 - 104341704 | | TRUE | TRUE |
| 12 | 104324112 - 104341704 | | TRUE | TRUE |
| 14 | 54863673 - 54886936 | | TRUE | FALSE |
| 14 | 54863673 - 54886936 | | TRUE | TRUE |
| 14 | 54863673 - 54886936 | T - 73.33% | TRUE | TRUE |
| 14 | 54863673 - 54886936 | | TRUE | TRUE |
| 17 | 44107282 - 44302740 | | TRUE | TRUE |
| 17 | 44107282 - 44302740 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 17 | 44107282 - 44302740 | F - 11.11% | TRUE | TRUE |
| 17 | 44107282 - 44302740 | | TRUE | TRUE |
| 21 | 38591910 - 38640262 | | TRUE | TRUE |
| 21 | 38591910 - 38640262 | | TRUE | FALSE |
| 21 | 38591910 - 38640262 | F - 8.70% | TRUE | TRUE |
| 21 | 38591910 - 38640262 | F - 4.35% | TRUE | TRUE |
| 2 | 241418839 - 241508626 | | TRUE | FALSE |
| 2 | 241418839 - 241508626 | | TRUE | TRUE |
| 2 | 241418839 - 241508626 | | TRUE | FALSE |
| 2 | 241418839 - 241508626 | F - 36.11% | TRUE | FALSE |
| 2 | 241418839 - 241508626 | | TRUE | TRUE |
| 2 | 241418839 - 241508626 | F - 41.67% | TRUE | TRUE |
| 2 | 241418839 - 241508626 | F - 2.78% | TRUE | TRUE |
| 2 | 241418839 - 241508626 | | FALSE | TRUE |
| 2 | 241418839 - 241508626 | | FALSE | TRUE |
| 4 | 77968311 - 77997158 | | TRUE | TRUE |
| 4 | 77968311 - 77997158 | F - 7.14% | TRUE | TRUE |
| 4 | 77968311 - 77997158 | F - 7.14% | TRUE | TRUE |
| 8 | 17780349 - 17887457 | F - 2.78% | TRUE | FALSE |
| 8 | 17780349 - 17887457 | F - 2.78% | TRUE | TRUE |
| 8 | 17780349 - 17887457 | F - 33.33% | TRUE | TRUE |
| 8 | 17780349 - 17887457 | F - 30.56% | TRUE | TRUE |
| 8 | 17780349 - 17887457 | | TRUE | TRUE |
| 9 | 130374486 - 130457460 | F - 45.45% | TRUE | TRUE |
| 9 | 130374486 - 130457460 | | TRUE | TRUE |
| 9 | 130374486 - 130457460 | | TRUE | TRUE |
| 9 | 130374486 - 130457460 | | TRUE | TRUE |
| 9 | 130374486 - 130457460 | F - 18.18% | TRUE | TRUE |
| 16 | 86508131 - 86542466 | F - 40.00% | TRUE | TRUE |
| 16 | 86508131 - 86542466 | T - 80.00% | TRUE | TRUE |
| 16 | 86508131 - 86542466 | T - 60.00% | TRUE | TRUE |
| 16 | 86508131 - 86542466 | | FALSE | TRUE |
| 16 | 86508131 - 86542466 | | FALSE | TRUE |
| 16 | 86508131 - 86542466 | F - 40.00% | TRUE | TRUE |
| 16 | 86508131 - 86542466 | F - 40.00% | FALSE | TRUE |
| 16 | 86508131 - 86542466 | | TRUE | TRUE |
| 17 | 18231187 - 18266856 | | TRUE | TRUE |
| 17 | 18231187 - 18266856 | | TRUE | TRUE |
| 17 | 18231187 - 18266856 | | TRUE | TRUE |
| 17 | 18231187 - 18266856 | F - 6.25% | TRUE | TRUE |
| 17 | 18231187 - 18266856 | T - 68.75% | TRUE | TRUE |
| 19 | 36936021 - 36980804 | F - 15.79% | TRUE | TRUE |
| 19 | 36936021 - 36980804 | | TRUE | TRUE |
| 19 | 36936021 - 36980804 | T - 73.68% | TRUE | TRUE |
| 19 | 36936021 - 36980804 | F - 5.26% | TRUE | TRUE |
| 19 | 36936021 - 36980804 | F - 47.37% | FALSE | TRUE |
| 20 | 2462463 - 2505348 | F - 22.22% | TRUE | TRUE |
| 20 | 2462463 - 2505348 | | TRUE | TRUE |
| 22 | 24110413 - 24126503 | F - 46.67% | TRUE | TRUE |
| 22 | 24110413 - 24126503 | F - 46.67% | TRUE | TRUE |
| 22 | 24110413 - 24126503 | | TRUE | FALSE |
| 1 | 44679125 - 44686353 | | TRUE | FALSE |
| 1 | 44679125 - 44686353 | F - 23.08% | TRUE | TRUE |
| 1 | 178818670 - 178840215 | | TRUE | TRUE |
| 1 | 178818670 - 178840215 | | TRUE | TRUE |
| 1 | 178818670 - 178840215 | T - 57.14% | TRUE | FALSE |
| 1 | 178818670 - 178840215 | F - 28.57% | TRUE | FALSE |
| 1 | 178818670 - 178840215 | T - 71.43% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 178818670 - 178840215 | | TRUE | FALSE |
| 1 | 178818670 - 178840215 | F - 28.57% | TRUE | FALSE |
| 1 | 178818670 - 178840215 | F - 42.86% | TRUE | FALSE |
| 2 | 219940039 - 220025587 | | TRUE | FALSE |
| 2 | 219940039 - 220025587 | T - 61.54% | FALSE | TRUE |
| 7 | 112063023 - 112117258 | F - 11.54% | TRUE | TRUE |
| 7 | 112063023 - 112117258 | | TRUE | TRUE |
| 7 | 112063023 - 112117258 | F - 3.85% | TRUE | TRUE |
| 7 | 112063023 - 112117258 | F - 46.15% | TRUE | TRUE |
| 7 | 112063023 - 112117258 | | TRUE | FALSE |
| 7 | 112063023 - 112117258 | F - 3.85% | TRUE | TRUE |
| 7 | 112063023 - 112117258 | F - 15.38% | TRUE | TRUE |
| 7 | 112063023 - 112117258 | F - 11.54% | TRUE | TRUE |
| 7 | 112063023 - 112117258 | | FALSE | TRUE |
| 13 | 31032879 - 31191734 | | TRUE | FALSE |
| 13 | 31032879 - 31191734 | F - 10.00% | TRUE | TRUE |
| 13 | 31032879 - 31191734 | | TRUE | FALSE |
| 13 | 31032879 - 31191734 | | TRUE | TRUE |
| 14 | 104200088 - 104313927 | | TRUE | TRUE |
| 14 | 104200088 - 104313927 | | TRUE | TRUE |
| 14 | 104200088 - 104313927 | F - 12.50% | TRUE | TRUE |
| 14 | 104200088 - 104313927 | T - 50.00% | TRUE | TRUE |
| 14 | 104200088 - 104313927 | | TRUE | TRUE |
| 14 | 104200088 - 104313927 | | TRUE | TRUE |
| 14 | 104200088 - 104313927 | | TRUE | TRUE |
| 15 | 20588368 - 20711433 | | TRUE | TRUE |
| 15 | 20588368 - 20711433 | | TRUE | TRUE |
| 15 | 20588368 - 20711433 | F - 28.57% | FALSE | TRUE |
| 15 | 20588368 - 20711433 | | FALSE | TRUE |
| 15 | 20588368 - 20711433 | | TRUE | TRUE |
| 15 | 20588368 - 20711433 | T - 57.14% | FALSE | TRUE |
| 15 | 63900817 - 64126147 | T - 57.14% | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | FALSE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | F - 28.57% | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | TRUE | TRUE |
| 15 | 63900817 - 64126147 | | FALSE | TRUE |
| 16 | 31212807 - 31214313 | T - 83.33% | TRUE | TRUE |
| 16 | 31212807 - 31214313 | F - 33.33% | TRUE | TRUE |
| 16 | 31212807 - 31214313 | | TRUE | TRUE |
| 16 | 31212807 - 31214313 | T - 66.67% | TRUE | TRUE |
| 16 | 31212807 - 31214313 | | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 20.00% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 26.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 26.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 26.67% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 20.00% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 17 | 48260650 - 48279000 | | TRUE | TRUE |
| 17 | 48260650 - 48279000 | | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 20.00% | TRUE | TRUE |
| 17 | 48260650 - 48279000 | | TRUE | TRUE |
| 17 | 48260650 - 48279000 | F - 6.67% | TRUE | TRUE |
| 19 | 19174803 - 19223704 | F - 33.33% | TRUE | TRUE |
| 19 | 19174803 - 19223704 | | TRUE | TRUE |
| 19 | 19174803 - 19223704 | T - 66.67% | TRUE | TRUE |
| 19 | 19174803 - 19223704 | | TRUE | TRUE |
| 20 | 57414773 - 57486250 | | TRUE | FALSE |
| 20 | 57414773 - 57486250 | | TRUE | TRUE |
| 20 | 57414773 - 57486250 | F - 1.37% | TRUE | TRUE |
| 6_dbb_hap3 | 995262 - 1017704 | | TRUE | TRUE |
| 6_dbb_hap3 | 995262 - 1017704 | F - 20.00% | TRUE | TRUE |
| 6_dbb_hap3 | 995262 - 1017704 | F - 40.00% | TRUE | TRUE |
| 6_dbb_hap3 | 995262 - 1017704 | | FALSE | TRUE |
| 6_dbb_hap3 | 995262 - 1017704 | | TRUE | TRUE |
| 6_mann_hap4 | 994885 - 1017334 | | TRUE | TRUE |
| 6_mann_hap4 | 994885 - 1017334 | F - 20.00% | TRUE | TRUE |
| 6_mann_hap4 | 994885 - 1017334 | F - 40.00% | TRUE | TRUE |
| 6_mann_hap4 | 994885 - 1017334 | | FALSE | TRUE |
| 6_mann_hap4 | 994885 - 1017334 | | TRUE | TRUE |
| 6_mann_hap4 | 3478807 - 3488712 | F - 23.53% | TRUE | TRUE |
| 6_mann_hap4 | 3478807 - 3488712 | | TRUE | FALSE |
| 6_mann_hap4 | 3478807 - 3488712 | F - 5.88% | TRUE | FALSE |
| 6_mann_hap4 | 3478807 - 3488712 | | TRUE | TRUE |
| 6_qbl_hap6 | 995239 - 1017689 | | TRUE | TRUE |
| 6_qbl_hap6 | 995239 - 1017689 | F - 20.00% | TRUE | TRUE |
| 6_qbl_hap6 | 995239 - 1017689 | F - 40.00% | TRUE | TRUE |
| 6_qbl_hap6 | 995239 - 1017689 | | FALSE | TRUE |
| 6_qbl_hap6 | 995239 - 1017689 | | TRUE | TRUE |
| 1 | 171283347 - 171311223 | | TRUE | TRUE |
| 1 | 171283347 - 171311223 | | TRUE | TRUE |
| 1 | 171283347 - 171311223 | | TRUE | TRUE |
| 1 | 171283347 - 171311223 | F - 16.67% | TRUE | TRUE |
| 2 | 42721709 - 42984087 | F - 28.00% | TRUE | FALSE |
| 2 | 42721709 - 42984087 | | TRUE | FALSE |
| 2 | 42721709 - 42984087 | | TRUE | TRUE |
| 2 | 42721709 - 42984087 | F - 32.00% | TRUE | TRUE |
| 2 | 42721709 - 42984087 | | TRUE | TRUE |
| 2 | 42721709 - 42984087 | F - 8.00% | TRUE | TRUE |
| 6 | 37598455 - 37667082 | | TRUE | FALSE |
| 6 | 37598455 - 37667082 | F - 20.00% | TRUE | TRUE |
| 6 | 37598455 - 37667082 | | TRUE | TRUE |
| 6 | 37598455 - 37667082 | F - 6.67% | TRUE | FALSE |
| 6 | 37598455 - 37667082 | F - 6.67% | TRUE | TRUE |
| 7 | 25174316 - 25219975 | | TRUE | TRUE |
| 7 | 25174316 - 25219975 | T - 75.00% | TRUE | TRUE |
| 7 | 25174316 - 25219975 | T - 50.00% | TRUE | TRUE |
| 8 | 22844930 - 22877712 | F - 45.45% | TRUE | TRUE |
| 8 | 22844930 - 22877712 | | TRUE | TRUE |
| 8 | 22844930 - 22877712 | | TRUE | TRUE |
| 12 | 71518865 - 71835678 | | TRUE | FALSE |
| 12 | 71518865 - 71835678 | T - 77.78% | TRUE | TRUE |
| 12 | 71518865 - 71835678 | T - 88.89% | TRUE | TRUE |
| 12 | 71518865 - 71835678 | F - 22.22% | FALSE | TRUE |
| 12 | 71518865 - 71835678 | F - 22.22% | TRUE | TRUE |
| 12 | 71518865 - 71835678 | F - 11.11% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 16 | 20911557 - 20936328 | | TRUE | TRUE |
| 16 | 20911557 - 20936328 | F - 45.45% | TRUE | TRUE |
| 16 | 20911557 - 20936328 | | TRUE | TRUE |
| 16 | 20911557 - 20936328 | F - 36.36% | TRUE | TRUE |
| 16 | 20911557 - 20936328 | | TRUE | TRUE |
| 16 | 20911557 - 20936328 | F - 18.18% | FALSE | TRUE |
| 19 | 45312338 - 45324678 | | TRUE | TRUE |
| 19 | 45312338 - 45324678 | T - 100.00% | TRUE | TRUE |
| 19 | 45312338 - 45324678 | T - 75.00% | TRUE | TRUE |
| 19 | 45312338 - 45324678 | | TRUE | TRUE |
| 19 | 45312338 - 45324678 | | FALSE | TRUE |
| 19 | 45312338 - 45324678 | T - 100.00% | TRUE | TRUE |
| 19 | 45312338 - 45324678 | | FALSE | TRUE |
| 19 | 45312338 - 45324678 | | FALSE | TRUE |
| 20 | 50003494 - 50179339 | T - 85.71% | TRUE | TRUE |
| 20 | 50003494 - 50179339 | | TRUE | TRUE |
| 20 | 50003494 - 50179339 | | TRUE | FALSE |
| 20 | 50003494 - 50179339 | T - 92.86% | TRUE | TRUE |
| 20 | 50003494 - 50179339 | T - 57.14% | TRUE | TRUE |
| 20 | 50003494 - 50179339 | | TRUE | TRUE |
| 20 | 50003494 - 50179339 | | TRUE | TRUE |
| 20 | 50003494 - 50179339 | T - 92.86% | TRUE | TRUE |
| 20 | 50003494 - 50179339 | | TRUE | FALSE |
| 20 | 50003494 - 50179339 | F - 42.86% | FALSE | TRUE |
| 17 | 34136486 - 34174238 | | TRUE | TRUE |
| 17 | 34136486 - 34174238 | | TRUE | FALSE |
| 17 | 34136486 - 34174238 | F - 28.57% | TRUE | TRUE |
| 1 | 206680879 - 206762616 | | TRUE | TRUE |
| 1 | 206680879 - 206762616 | T - 78.57% | FALSE | TRUE |
| 1 | 206238872 - 206306131 | | TRUE | TRUE |
| 1 | 206238872 - 206306131 | | TRUE | TRUE |
| 1 | 206238872 - 206306131 | | TRUE | FALSE |
| 1 | 206238872 - 206306131 | F - 12.50% | TRUE | TRUE |
| 1 | 206238872 - 206306131 | F - 25.00% | TRUE | FALSE |
| 1 | 206238872 - 206306131 | T - 50.00% | TRUE | TRUE |
| 1 | 206238872 - 206306131 | F - 25.00% | FALSE | TRUE |
| 2 | 242088991 - 242123067 | | TRUE | FALSE |
| 2 | 242088991 - 242123067 | F - 3.85% | TRUE | FALSE |
| 2 | 242088991 - 242123067 | F - 3.85% | TRUE | TRUE |
| 2 | 201773696 - 201828424 | | TRUE | TRUE |
| 2 | 201773696 - 201828424 | F - 10.00% | TRUE | TRUE |
| 2 | 201773696 - 201828424 | | TRUE | TRUE |
| 2 | 201773696 - 201828424 | F - 10.00% | TRUE | TRUE |
| 2 | 201773696 - 201828424 | | TRUE | TRUE |
| 2 | 201773696 - 201828424 | | FALSE | TRUE |
| 2 | 201773696 - 201828424 | | TRUE | TRUE |
| 2 | 27008865 - 27023935 | T - 72.73% | TRUE | TRUE |
| 2 | 27008865 - 27023935 | | TRUE | TRUE |
| 2 | 27008865 - 27023935 | T - 100.00% | FALSE | TRUE |
| 3 | 57611181 - 57678816 | | TRUE | TRUE |
| 3 | 57611181 - 57678816 | F - 12.50% | TRUE | TRUE |
| 3 | 81538850 - 81811312 | T - 50.00% | TRUE | TRUE |
| 3 | 81538850 - 81811312 | F - 8.33% | TRUE | TRUE |
| 3 | 81538850 - 81811312 | F - 33.33% | FALSE | TRUE |
| 3 | 81538850 - 81811312 | T - 50.00% | TRUE | TRUE |
| 3 | 81538850 - 81811312 | | FALSE | TRUE |
| 5 | 36248536 - 36302216 | T - 100.00% | TRUE | FALSE |
| 5 | 36248536 - 36302216 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 36248536 - 36302216 | | TRUE | TRUE |
| 5 | 36248536 - 36302216 | T - 71.43% | TRUE | TRUE |
| 5 | 36248536 - 36302216 | F - 14.29% | TRUE | FALSE |
| 5 | 36248536 - 36302216 | | TRUE | FALSE |
| 5 | 36248536 - 36302216 | T - 71.43% | TRUE | TRUE |
| 5 | 36248536 - 36302216 | | TRUE | FALSE |
| 5 | 36248536 - 36302216 | | TRUE | FALSE |
| 5 | 36248536 - 36302216 | F - 14.29% | TRUE | FALSE |
| 5 | 36248536 - 36302216 | | TRUE | TRUE |
| 7 | 143336432 - 143533810 | F - 11.11% | TRUE | TRUE |
| 7 | 143336432 - 143533810 | | FALSE | TRUE |
| 7 | 143336432 - 143533810 | F - 11.11% | TRUE | TRUE |
| 7 | 143336432 - 143533810 | F - 11.11% | TRUE | TRUE |
| 7 | 143336432 - 143533810 | F - 44.44% | FALSE | TRUE |
| 7 | 143336432 - 143533810 | | FALSE | TRUE |
| 7 | 143336432 - 143533810 | | FALSE | TRUE |
| 7 | 143336432 - 143533810 | | FALSE | TRUE |
| 7 | 143336432 - 143533810 | F - 11.11% | TRUE | TRUE |
| 7 | 143336432 - 143533810 | | TRUE | TRUE |
| 9 | 35609530 - 35646854 | F - 25.00% | TRUE | TRUE |
| 9 | 35609530 - 35646854 | F - 31.25% | TRUE | TRUE |
| 9 | 35609530 - 35646854 | | TRUE | TRUE |
| 9 | 35609530 - 35646854 | | TRUE | TRUE |
| 9 | 35609530 - 35646854 | F - 6.25% | TRUE | TRUE |
| 9 | 35609530 - 35646854 | F - 37.50% | TRUE | TRUE |
| 9 | 35609530 - 35646854 | F - 18.75% | TRUE | TRUE |
| 9 | 35609530 - 35646854 | | FALSE | TRUE |
| 9 | 114803061 - 114937688 | | TRUE | TRUE |
| 9 | 114803061 - 114937688 | | TRUE | TRUE |
| 9 | 114803061 - 114937688 | T - 81.82% | TRUE | TRUE |
| 9 | 114803061 - 114937688 | T - 81.82% | TRUE | TRUE |
| 9 | 114803061 - 114937688 | T - 54.55% | TRUE | TRUE |
| 9 | 114803061 - 114937688 | | FALSE | TRUE |
| 9 | 114803061 - 114937688 | T - 72.73% | TRUE | TRUE |
| 9 | 114803061 - 114937688 | | FALSE | TRUE |
| 10 | 31607424 - 31821599 | F - 13.51% | TRUE | TRUE |
| 10 | 31607424 - 31821599 | F - 2.70% | TRUE | TRUE |
| 10 | 31607424 - 31821599 | | TRUE | TRUE |
| 10 | 31607424 - 31821599 | | TRUE | TRUE |
| 10 | 102889257 - 102897546 | | TRUE | FALSE |
| 10 | 102889257 - 102897546 | T - 62.50% | FALSE | TRUE |
| 10 | 79729008 - 79789303 | | TRUE | TRUE |
| 10 | 79729008 - 79789303 | | TRUE | FALSE |
| 10 | 79729008 - 79789303 | | TRUE | FALSE |
| 10 | 79729008 - 79789303 | | TRUE | TRUE |
| 10 | 79729008 - 79789303 | F - 44.44% | TRUE | TRUE |
| 10 | 79729008 - 79789303 | | TRUE | TRUE |
| 10 | 79729008 - 79789303 | | TRUE | TRUE |
| 10 | 79729008 - 79789303 | | FALSE | TRUE |
| 10 | 126305649 - 126480296 | | TRUE | TRUE |
| 10 | 126305649 - 126480296 | | TRUE | TRUE |
| 10 | 126305649 - 126480296 | F - 28.57% | TRUE | TRUE |
| 15 | 66187634 - 66546085 | | TRUE | FALSE |
| 15 | 66187634 - 66546085 | | TRUE | FALSE |
| 15 | 66187634 - 66546085 | F - 5.56% | FALSE | TRUE |
| 15 | 66187634 - 66546085 | | FALSE | TRUE |
| 1 | 46899499 - 46911374 | T - 100.00% | TRUE | TRUE |
| 1 | 46899499 - 46911374 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 1 | 46899499 - 46911374 | | FALSE | TRUE |
| 2 | 71503691 - 71662199 | | TRUE | TRUE |
| 2 | 71503691 - 71662199 | | TRUE | TRUE |
| 2 | 71503691 - 71662199 | | TRUE | FALSE |
| 2 | 71503691 - 71662199 | | TRUE | TRUE |
| 2 | 71503691 - 71662199 | F - 4.17% | TRUE | TRUE |
| 2 | 71503691 - 71662199 | | FALSE | TRUE |
| 2 | 71503691 - 71662199 | | FALSE | TRUE |
| 2 | 71503691 - 71662199 | | TRUE | TRUE |
| 2 | 71503691 - 71662199 | F - 43.75% | FALSE | TRUE |
| 2 | 99235569 - 99347589 | F - 23.08% | TRUE | TRUE |
| 2 | 99235569 - 99347589 | | TRUE | TRUE |
| 2 | 99235569 - 99347589 | F - 30.77% | FALSE | TRUE |
| 2 | 99235569 - 99347589 | T - 53.85% | TRUE | TRUE |
| 2 | 99235569 - 99347589 | | TRUE | TRUE |
| 2 | 99235569 - 99347589 | F - 15.38% | TRUE | TRUE |
| 4 | 619363 - 664681 | | TRUE | TRUE |
| 4 | 619363 - 664681 | F - 44.44% | FALSE | TRUE |
| 5 | 170288874 - 170727019 | F - 37.14% | TRUE | TRUE |
| 5 | 170288874 - 170727019 | | TRUE | TRUE |
| 5 | 170288874 - 170727019 | | TRUE | FALSE |
| 5 | 170288874 - 170727019 | F - 5.71% | TRUE | FALSE |
| 5 | 170288874 - 170727019 | | TRUE | TRUE |
| 5 | 170288874 - 170727019 | F - 2.86% | FALSE | TRUE |
| 5 | 170288874 - 170727019 | F - 2.86% | FALSE | TRUE |
| 5 | 170288874 - 170727019 | F - 2.86% | FALSE | TRUE |
| 5 | 170288874 - 170727019 | | TRUE | TRUE |
| 5 | 170288874 - 170727019 | | TRUE | TRUE |
| 7 | 92861653 - 92988338 | T - 60.71% | TRUE | TRUE |
| 7 | 92861653 - 92988338 | | TRUE | TRUE |
| 7 | 92861653 - 92988338 | F - 42.86% | TRUE | TRUE |
| 7 | 92861653 - 92988338 | | TRUE | FALSE |
| 7 | 92861653 - 92988338 | | TRUE | TRUE |
| 7 | 150773679 - 150777953 | F - 11.54% | TRUE | TRUE |
| 7 | 150773679 - 150777953 | | TRUE | TRUE |
| 11 | 790475 - 798269 | | TRUE | FALSE |
| 11 | 790475 - 798269 | T - 100.00% | TRUE | TRUE |
| 11 | 790475 - 798269 | | TRUE | TRUE |
| 13 | 108859792 - 108870716 | | TRUE | FALSE |
| 13 | 108859792 - 108870716 | | TRUE | TRUE |
| 13 | 108859792 - 108870716 | F - 20.00% | FALSE | TRUE |
| 6_qbl_hap6 | 2615165 - 2618505 | | TRUE | TRUE |
| 6_qbl_hap6 | 2615165 - 2618505 | F - 13.33% | TRUE | TRUE |
| 6_qbl_hap6 | 2615165 - 2618505 | F - 6.67% | TRUE | TRUE |
| 6_qbl_hap6 | 2615165 - 2618505 | | TRUE | TRUE |
| 6_qbl_hap6 | 2615165 - 2618505 | T - 60.00% | TRUE | TRUE |
| 6_qbl_hap6 | 2615165 - 2618505 | T - 60.00% | TRUE | TRUE |
| 2 | 61108656 - 61150645 | | TRUE | TRUE |
| 2 | 61108656 - 61150645 | T - 100.00% | TRUE | TRUE |
| 2 | 61108656 - 61150645 | | TRUE | TRUE |
| 2 | 231280657 - 231410317 | | TRUE | TRUE |
| 2 | 231280657 - 231410317 | F - 25.81% | TRUE | TRUE |
| 2 | 231280657 - 231410317 | F - 3.23% | TRUE | TRUE |
| 2 | 231280657 - 231410317 | F - 12.90% | TRUE | TRUE |
| 2 | 231280657 - 231410317 | F - 22.58% | TRUE | TRUE |
| 2 | 234684370 - 234742069 | | TRUE | FALSE |
| 2 | 234684370 - 234742069 | | TRUE | TRUE |
| 2 | 234684370 - 234742069 | F - 28.57% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 3 | 40566369 - 40616176 | F - 7.69% | TRUE | FALSE |
| 3 | 40566369 - 40616176 | | TRUE | FALSE |
| 3 | 40566369 - 40616176 | T - 76.92% | TRUE | TRUE |
| 3 | 47021173 - 47051194 | | TRUE | TRUE |
| 3 | 47021173 - 47051194 | F - 20.00% | TRUE | FALSE |
| 3 | 47021173 - 47051194 | | TRUE | TRUE |
| 3 | 47021173 - 47051194 | F - 35.00% | TRUE | TRUE |
| 3 | 47021173 - 47051194 | | FALSE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | FALSE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | T - 50.00% | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | F - 40.00% | TRUE | TRUE |
| 4 | 169137442 - 169239958 | F - 40.00% | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 4 | 169137442 - 169239958 | | TRUE | TRUE |
| 5 | 5140443 - 5320417 | | TRUE | FALSE |
| 5 | 5140443 - 5320417 | T - 87.50% | TRUE | TRUE |
| 5 | 5140443 - 5320417 | | TRUE | FALSE |
| 5 | 5140443 - 5320417 | | TRUE | TRUE |
| 5 | 5140443 - 5320417 | | TRUE | TRUE |
| 5 | 5140443 - 5320417 | T - 62.50% | TRUE | TRUE |
| 5 | 5140443 - 5320417 | F - 25.00% | TRUE | TRUE |
| 5 | 5140443 - 5320417 | | TRUE | TRUE |
| 5 | 156693089 - 156822606 | | TRUE | TRUE |
| 5 | 156693089 - 156822606 | F - 2.38% | TRUE | TRUE |
| 5 | 156693089 - 156822606 | F - 2.38% | TRUE | TRUE |
| 5 | 156693089 - 156822606 | | TRUE | TRUE |
| 5 | 156693089 - 156822606 | | TRUE | FALSE |
| 5 | 156693089 - 156822606 | | FALSE | TRUE |
| 5 | 156693089 - 156822606 | T - 69.05% | TRUE | TRUE |
| 5 | 156693089 - 156822606 | F - 2.38% | TRUE | FALSE |
| 5 | 156693089 - 156822606 | T - 57.14% | FALSE | TRUE |
| 5 | 156693089 - 156822606 | T - 61.90% | FALSE | TRUE |
| 5 | 156693089 - 156822606 | | FALSE | TRUE |
| 5 | 156693089 - 156822606 | | FALSE | TRUE |
| 5 | 156693089 - 156822606 | T - 59.52% | FALSE | TRUE |
| 5 | 156693089 - 156822606 | T - 61.90% | FALSE | TRUE |
| 6 | 96969471 - 97003152 | | TRUE | FALSE |
| 6 | 96969471 - 97003152 | F - 16.67% | TRUE | TRUE |
| 6 | 107077441 - 107116292 | | TRUE | FALSE |
| 6 | 107077441 - 107116292 | | TRUE | TRUE |
| 6 | 107077441 - 107116292 | F - 28.57% | FALSE | TRUE |
| 10 | 70090931 - 70102953 | F - 5.26% | TRUE | FALSE |
| 10 | 70090931 - 70102953 | F - 5.26% | TRUE | TRUE |
| 10 | 70090931 - 70102953 | | TRUE | TRUE |
| 14 | 32030591 - 32330430 | F - 12.50% | TRUE | TRUE |
| 14 | 32030591 - 32330430 | | TRUE | TRUE |
| 14 | 32030591 - 32330430 | T - 75.00% | TRUE | TRUE |
| 16 | 79627735 - 79634622 | | TRUE | TRUE |
| 16 | 79627735 - 79634622 | | TRUE | TRUE |
| 16 | 79627735 - 79634622 | T - 60.00% | FALSE | TRUE |
| 6_mann_hap4 | 1603265 - 1642995 | | TRUE | TRUE |
| 6_mann_hap4 | 1603265 - 1642995 | F - 40.00% | TRUE | TRUE |
| 2 | 220143989 - 220151622 | | TRUE | TRUE |

| | | | | |
|----------------|-----------------------|------------|-------|-------|
| 2 | 220143989 - 220151622 | | TRUE | TRUE |
| 2 | 220143989 - 220151622 | F - 4.00% | TRUE | TRUE |
| 2 | 220143989 - 220151622 | | TRUE | TRUE |
| 2 | 220143989 - 220151622 | F - 12.00% | TRUE | TRUE |
| 3 | 50606583 - 50622421 | | TRUE | TRUE |
| 3 | 50606583 - 50622421 | | TRUE | TRUE |
| 3 | 50606583 - 50622421 | | TRUE | TRUE |
| 3 | 50606583 - 50622421 | F - 10.00% | FALSE | TRUE |
| 3 | 50606583 - 50622421 | F - 30.00% | TRUE | TRUE |
| 3 | 50606583 - 50622421 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | TRUE | TRUE |
| 3 | 54156574 - 55108584 | | TRUE | FALSE |
| 3 | 54156574 - 55108584 | F - 5.88% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | | TRUE | TRUE |
| 3 | 54156574 - 55108584 | F - 23.53% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | | TRUE | TRUE |
| 3 | 54156574 - 55108584 | T - 52.94% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | | TRUE | TRUE |
| 3 | 54156574 - 55108584 | F - 5.88% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | | TRUE | TRUE |
| 3 | 54156574 - 55108584 | T - 58.82% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | F - 35.29% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | T - 64.71% | TRUE | TRUE |
| 3 | 54156574 - 55108584 | F - 5.88% | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 54156574 - 55108584 | | FALSE | TRUE |
| 3 | 24158645 - 24536773 | F - 8.00% | TRUE | FALSE |
| 3 | 24158645 - 24536773 | | TRUE | TRUE |
| 3 | 24158645 - 24536773 | F - 44.00% | TRUE | TRUE |
| 3 | 24158645 - 24536773 | F - 4.00% | TRUE | TRUE |
| 3 | 24158645 - 24536773 | F - 36.00% | FALSE | TRUE |
| 3 | 24158645 - 24536773 | | TRUE | TRUE |
| 3 | 24158645 - 24536773 | | TRUE | TRUE |
| 3 | 24158645 - 24536773 | F - 12.00% | TRUE | TRUE |
| 3 | 24158645 - 24536773 | F - 8.00% | TRUE | TRUE |
| 5 | 94982458 - 94993786 | | TRUE | FALSE |
| 5 | 94982458 - 94993786 | T - 84.62% | TRUE | TRUE |
| 1_gl000192_ran | 222732 - 407510 | | TRUE | FALSE |
| 1_gl000192_ran | 222732 - 407510 | | TRUE | FALSE |
| 1_gl000192_ran | 222732 - 407510 | | TRUE | TRUE |
| 1_gl000192_ran | 222732 - 407510 | T - 50.00% | TRUE | TRUE |
| 1_gl000192_ran | 222732 - 407510 | | FALSE | TRUE |
| 14 | 61176246 - 61191066 | F - 16.67% | FALSE | TRUE |
| 14 | 61176246 - 61191066 | | TRUE | TRUE |
| 14 | 61176246 - 61191066 | F - 33.33% | TRUE | TRUE |
| 14 | 61176246 - 61191066 | F - 16.67% | TRUE | TRUE |
| 16 | 15489611 - 15503543 | | TRUE | FALSE |
| 16 | 15489611 - 15503543 | T - 50.00% | TRUE | TRUE |
| 20 | 48697661 - 48732496 | | TRUE | TRUE |
| 20 | 48697661 - 48732496 | F - 38.46% | TRUE | TRUE |
| 20 | 48697661 - 48732496 | F - 3.85% | TRUE | TRUE |
| 20 | 48697661 - 48732496 | F - 7.69% | TRUE | TRUE |
| 20 | 48697661 - 48732496 | | FALSE | TRUE |
| 2 | 182818968 - 182996125 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 182818968 - 182996125 | F - 43.75% | TRUE | TRUE |
| 1 | 33546705 - 33586131 | | TRUE | FALSE |
| 1 | 33546705 - 33586131 | F - 19.35% | TRUE | TRUE |
| 1 | 33546705 - 33586131 | T - 77.42% | TRUE | TRUE |
| 2 | 220101328 - 220110200 | | TRUE | TRUE |
| 2 | 220101328 - 220110200 | F - 5.88% | TRUE | TRUE |
| 2 | 220101328 - 220110200 | | TRUE | TRUE |
| 2 | 220101328 - 220110200 | F - 11.76% | FALSE | TRUE |
| 2 | 220101328 - 220110200 | F - 5.88% | TRUE | TRUE |
| 2 | 220101328 - 220110200 | | TRUE | TRUE |
| 2 | 220101328 - 220110200 | T - 70.59% | FALSE | TRUE |
| 2 | 220101328 - 220110200 | | FALSE | TRUE |
| 2 | 220101328 - 220110200 | F - 23.53% | FALSE | TRUE |
| 2 | 220101328 - 220110200 | F - 11.76% | FALSE | TRUE |
| 2 | 220101328 - 220110200 | | TRUE | TRUE |
| 2 | 232318242 - 232348352 | | TRUE | FALSE |
| 2 | 232318242 - 232348352 | F - 14.29% | TRUE | TRUE |
| 2 | 232318242 - 232348352 | | TRUE | TRUE |
| 4 | 17812525 - 17846487 | T - 66.67% | TRUE | TRUE |
| 4 | 17812525 - 17846487 | | TRUE | FALSE |
| 4 | 17812525 - 17846487 | | FALSE | TRUE |
| 4 | 17812525 - 17846487 | | TRUE | TRUE |
| 4 | 17812525 - 17846487 | T - 66.67% | FALSE | TRUE |
| 6 | 35541362 - 35696397 | | TRUE | FALSE |
| 6 | 35541362 - 35696397 | T - 83.33% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | T - 83.33% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | | TRUE | FALSE |
| 6 | 35541362 - 35696397 | T - 75.00% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | F - 16.67% | TRUE | FALSE |
| 6 | 35541362 - 35696397 | | TRUE | FALSE |
| 6 | 35541362 - 35696397 | | TRUE | FALSE |
| 6 | 35541362 - 35696397 | T - 66.67% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | | TRUE | TRUE |
| 6 | 35541362 - 35696397 | | TRUE | TRUE |
| 6 | 35541362 - 35696397 | T - 50.00% | TRUE | FALSE |
| 6 | 35541362 - 35696397 | F - 33.33% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | F - 33.33% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | T - 50.00% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | T - 50.00% | TRUE | TRUE |
| 6 | 35541362 - 35696397 | | TRUE | TRUE |
| 7 | 56032270 - 56067875 | F - 21.43% | TRUE | TRUE |
| 7 | 56032270 - 56067875 | | TRUE | TRUE |
| 10 | 28966271 - 28971868 | F - 20.00% | TRUE | TRUE |
| 10 | 28966271 - 28971868 | | TRUE | TRUE |
| 10 | 71561644 - 71724031 | | TRUE | FALSE |
| 10 | 71561644 - 71724031 | | TRUE | TRUE |
| 10 | 71561644 - 71724031 | F - 4.65% | TRUE | TRUE |
| 10 | 71561644 - 71724031 | | FALSE | TRUE |
| 10 | 71561644 - 71724031 | | FALSE | TRUE |
| 10 | 75196186 - 75255782 | | TRUE | FALSE |
| 10 | 75196186 - 75255782 | T - 82.35% | TRUE | TRUE |
| 10 | 75196186 - 75255782 | | TRUE | TRUE |
| 10 | 75196186 - 75255782 | F - 5.88% | TRUE | TRUE |
| 10 | 75196186 - 75255782 | F - 11.76% | TRUE | TRUE |
| 10 | 75196186 - 75255782 | | TRUE | TRUE |
| 12 | 13080660 - 13137579 | | TRUE | FALSE |
| 12 | 13080660 - 13137579 | | TRUE | TRUE |
| 12 | 13080660 - 13137579 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 13080660 - 13137579 | F - 33.33% | TRUE | TRUE |
| 12 | 52626898 - 52662180 | | TRUE | TRUE |
| 12 | 52626898 - 52662180 | F - 16.67% | TRUE | TRUE |
| 12 | 52626898 - 52662180 | T - 50.00% | TRUE | TRUE |
| 12 | 52626898 - 52662180 | F - 16.67% | TRUE | TRUE |
| 12 | 52626898 - 52662180 | | TRUE | TRUE |
| 12 | 52626898 - 52662180 | | FALSE | TRUE |
| 17 | 36508005 - 36561846 | | TRUE | TRUE |
| 17 | 36508005 - 36561846 | T - 60.00% | TRUE | TRUE |
| 17 | 36508005 - 36561846 | T - 80.00% | TRUE | TRUE |
| 17 | 36508005 - 36561846 | T - 80.00% | TRUE | TRUE |
| 19 | 58258164 - 58269527 | | TRUE | TRUE |
| 19 | 58258164 - 58269527 | | TRUE | TRUE |
| 19 | 58258164 - 58269527 | F - 14.29% | TRUE | TRUE |
| 19 | 58258164 - 58269527 | | FALSE | TRUE |
| 19 | 58258164 - 58269527 | F - 14.29% | TRUE | TRUE |
| 19 | 58258164 - 58269527 | F - 42.86% | TRUE | TRUE |
| 19 | 58258164 - 58269527 | F - 28.57% | TRUE | TRUE |
| 1 | 200311672 - 200343482 | T - 50.00% | TRUE | TRUE |
| 1 | 200311672 - 200343482 | T - 100.00% | TRUE | TRUE |
| 1 | 200311672 - 200343482 | | TRUE | FALSE |
| 1 | 200311672 - 200343482 | T - 50.00% | TRUE | TRUE |
| 1 | 249144203 - 249153315 | | TRUE | TRUE |
| 1 | 249144203 - 249153315 | F - 13.33% | TRUE | TRUE |
| 5 | 137022410 - 137223540 | T - 69.23% | TRUE | FALSE |
| 5 | 137022410 - 137223540 | | TRUE | FALSE |
| 5 | 137022410 - 137223540 | T - 69.23% | TRUE | TRUE |
| 5 | 137022410 - 137223540 | F - 46.15% | TRUE | TRUE |
| 5 | 137022410 - 137223540 | T - 69.23% | FALSE | TRUE |
| 5 | 137022410 - 137223540 | F - 7.69% | FALSE | TRUE |
| 5 | 137022410 - 137223540 | F - 30.77% | TRUE | TRUE |
| 5 | 137022410 - 137223540 | T - 76.92% | FALSE | TRUE |
| 5 | 137022410 - 137223540 | T - 69.23% | FALSE | TRUE |
| 5 | 141013251 - 141061800 | F - 7.69% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | F - 15.38% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | T - 61.54% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | T - 53.85% | FALSE | TRUE |
| 5 | 141013251 - 141061800 | F - 15.38% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | F - 46.15% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | T - 61.54% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | TRUE | TRUE |
| 5 | 141013251 - 141061800 | T - 61.54% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | T - 61.54% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | T - 53.85% | TRUE | TRUE |
| 5 | 141013251 - 141061800 | | FALSE | TRUE |
| 5 | 141013251 - 141061800 | | FALSE | TRUE |
| 5 | 141013251 - 141061800 | T - 61.54% | FALSE | TRUE |
| 5 | 176728199 - 176730745 | F - 30.77% | TRUE | TRUE |
| 5 | 176728199 - 176730745 | | FALSE | TRUE |
| 6 | 159590429 - 159693141 | T - 87.50% | TRUE | TRUE |
| 6 | 159590429 - 159693141 | T - 87.50% | TRUE | TRUE |
| 6 | 159590429 - 159693141 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 1581871 - 1600457 | T - 60.00% | TRUE | TRUE |
| 7 | 1581871 - 1600457 | T - 66.67% | TRUE | TRUE |
| 7 | 1581871 - 1600457 | | TRUE | TRUE |
| 7 | 1581871 - 1600457 | F - 20.00% | TRUE | TRUE |
| 7 | 1581871 - 1600457 | | TRUE | TRUE |
| 7 | 6010556 - 6048756 | | TRUE | TRUE |
| 7 | 6010556 - 6048756 | F - 5.88% | TRUE | TRUE |
| X | 119392505 - 119445411 | F - 33.33% | TRUE | FALSE |
| X | 119392505 - 119445411 | | TRUE | TRUE |
| X | 119392505 - 119445411 | | TRUE | TRUE |
| X | 119392505 - 119445411 | | TRUE | TRUE |
| X | 119392505 - 119445411 | | FALSE | TRUE |
| X | 119392505 - 119445411 | T - 77.78% | FALSE | TRUE |
| 13 | 66876966 - 67804577 | T - 92.86% | TRUE | TRUE |
| 13 | 66876966 - 67804577 | T - 57.14% | TRUE | TRUE |
| 13 | 66876966 - 67804577 | | TRUE | TRUE |
| 13 | 66876966 - 67804577 | F - 14.29% | TRUE | TRUE |
| 13 | 66876966 - 67804577 | T - 78.57% | TRUE | FALSE |
| 13 | 66876966 - 67804577 | | TRUE | TRUE |
| 13 | 66876966 - 67804577 | | TRUE | FALSE |
| 13 | 66876966 - 67804577 | | TRUE | FALSE |
| 13 | 66876966 - 67804577 | T - 71.43% | TRUE | FALSE |
| 13 | 66876966 - 67804577 | T - 71.43% | TRUE | TRUE |
| 13 | 66876966 - 67804577 | | TRUE | TRUE |
| 13 | 66876966 - 67804577 | | TRUE | TRUE |
| 13 | 66876966 - 67804577 | F - 7.14% | TRUE | FALSE |
| 13 | 66876966 - 67804577 | | TRUE | TRUE |
| 13 | 66876966 - 67804577 | F - 42.86% | TRUE | FALSE |
| 13 | 66876966 - 67804577 | T - 50.00% | TRUE | TRUE |
| 13 | 66876966 - 67804577 | | TRUE | TRUE |
| 13 | 113831891 - 113863029 | | TRUE | TRUE |
| 13 | 113831891 - 113863029 | F - 3.33% | TRUE | TRUE |
| 13 | 113831891 - 113863029 | F - 3.33% | TRUE | TRUE |
| 13 | 113831891 - 113863029 | T - 80.00% | TRUE | TRUE |
| 14 | 64915824 - 64971931 | | TRUE | TRUE |
| 14 | 64915824 - 64971931 | | TRUE | TRUE |
| 14 | 64915824 - 64971931 | T - 83.33% | TRUE | TRUE |
| 14 | 64915824 - 64971931 | | FALSE | TRUE |
| 16 | 84853537 - 84943116 | | TRUE | TRUE |
| 16 | 84853537 - 84943116 | | TRUE | TRUE |
| 16 | 84853537 - 84943116 | | TRUE | TRUE |
| 16 | 84853537 - 84943116 | T - 100.00% | TRUE | TRUE |
| 16 | 84853537 - 84943116 | F - 12.50% | TRUE | TRUE |
| 16 | 84853537 - 84943116 | F - 12.50% | TRUE | TRUE |
| 16 | 84853537 - 84943116 | F - 12.50% | TRUE | TRUE |
| 17 | 8377523 - 8534079 | | TRUE | TRUE |
| 17 | 8377523 - 8534079 | | FALSE | TRUE |
| 17 | 8377523 - 8534079 | | TRUE | TRUE |
| 17 | 8377523 - 8534079 | T - 55.56% | TRUE | TRUE |
| 17 | 8377523 - 8534079 | T - 55.56% | TRUE | TRUE |
| 17 | 8377523 - 8534079 | | TRUE | TRUE |
| 17 | 74561461 - 74582145 | | TRUE | FALSE |
| 17 | 74561461 - 74582145 | | TRUE | TRUE |
| 17 | 74561461 - 74582145 | T - 100.00% | TRUE | TRUE |
| 17 | 74561461 - 74582145 | T - 100.00% | TRUE | TRUE |
| 17 | 74561461 - 74582145 | T - 100.00% | FALSE | TRUE |
| 17 | 74561461 - 74582145 | | TRUE | TRUE |
| 17 | 74561461 - 74582145 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 19 | 8274197 - 8327305 | | TRUE | TRUE |
| 19 | 8274197 - 8327305 | F - 11.11% | FALSE | TRUE |
| 19 | 8274197 - 8327305 | T - 88.89% | TRUE | TRUE |
| 19 | 8274197 - 8327305 | | TRUE | TRUE |
| 19 | 8274197 - 8327305 | F - 11.11% | TRUE | TRUE |
| 19 | 8274197 - 8327305 | F - 11.11% | TRUE | TRUE |
| 19 | 8274197 - 8327305 | T - 66.67% | TRUE | TRUE |
| 19 | 8274197 - 8327305 | T - 88.89% | TRUE | TRUE |
| 19 | 8274197 - 8327305 | | TRUE | TRUE |
| 19 | 8274197 - 8327305 | T - 66.67% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | | TRUE | FALSE |
| 1 | 245133007 - 245290466 | | TRUE | TRUE |
| 1 | 245133007 - 245290466 | | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 14.29% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | | FALSE | TRUE |
| 1 | 245133007 - 245290466 | F - 4.76% | FALSE | TRUE |
| 1 | 245133007 - 245290466 | F - 4.76% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 4.76% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 14.29% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 38.10% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 23.81% | FALSE | TRUE |
| 1 | 245133007 - 245290466 | | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 28.57% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 19.05% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | | TRUE | TRUE |
| 1 | 245133007 - 245290466 | F - 4.76% | TRUE | TRUE |
| 1 | 245133007 - 245290466 | | FALSE | TRUE |
| 2 | 86667770 - 86719839 | F - 5.00% | TRUE | TRUE |
| 2 | 86667770 - 86719839 | | TRUE | TRUE |
| 2 | 86667770 - 86719839 | F - 10.00% | TRUE | TRUE |
| 2 | 86667770 - 86719839 | F - 5.00% | TRUE | TRUE |
| 2 | 86667770 - 86719839 | | TRUE | TRUE |
| 2 | 86667770 - 86719839 | | TRUE | TRUE |
| 2 | 86667770 - 86719839 | F - 25.00% | TRUE | TRUE |
| 2 | 86667770 - 86719839 | F - 45.00% | TRUE | TRUE |
| 2 | 86667770 - 86719839 | | FALSE | TRUE |
| 2 | 86667770 - 86719839 | | FALSE | TRUE |
| 4 | 175204828 - 175254531 | | TRUE | TRUE |
| 4 | 175204828 - 175254531 | T - 50.00% | TRUE | FALSE |
| 4 | 175204828 - 175254531 | | TRUE | TRUE |
| 6 | 112375275 - 112392171 | | TRUE | TRUE |
| 6 | 112375275 - 112392171 | F - 13.33% | TRUE | TRUE |
| 6 | 112375275 - 112392171 | | TRUE | TRUE |
| 6 | 112375275 - 112392171 | F - 40.00% | TRUE | TRUE |
| 6 | 112375275 - 112392171 | | TRUE | TRUE |
| 7 | 44646121 - 44748669 | | TRUE | TRUE |
| 7 | 44646121 - 44748669 | | TRUE | TRUE |
| 7 | 44646121 - 44748669 | F - 29.41% | FALSE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | T - 60.78% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 90.20% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | T - 58.82% | TRUE | TRUE |

| | | | | |
|---|---------------------|------------|-------|-------|
| 7 | 73442119 - 73484237 | F - 41.18% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 78.43% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | T - 64.71% | TRUE | FALSE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | T - 80.39% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 58.82% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | FALSE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 27.45% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 66.67% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 3.92% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | T - 90.20% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | FALSE |
| 7 | 73442119 - 73484237 | T - 70.59% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 66.67% | TRUE | FALSE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 68.63% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 74.51% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 3.92% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | FALSE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | T - 66.67% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | FALSE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 5.88% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | F - 1.96% | TRUE | TRUE |
| 7 | 73442119 - 73484237 | | TRUE | TRUE |
| 7 | 83587659 - 84122040 | | TRUE | FALSE |
| 7 | 83587659 - 84122040 | F - 11.11% | TRUE | TRUE |
| 7 | 83587659 - 84122040 | | TRUE | TRUE |
| 7 | 83587659 - 84122040 | F - 11.11% | TRUE | TRUE |
| 7 | 83587659 - 84122040 | F - 33.33% | TRUE | TRUE |
| 7 | 83587659 - 84122040 | F - 22.22% | FALSE | TRUE |
| 7 | 83587659 - 84122040 | | FALSE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 9 | 112137746 - 112260593 | F - 11.76% | TRUE | FALSE |
| 9 | 112137746 - 112260593 | F - 11.76% | TRUE | FALSE |
| 9 | 112137746 - 112260593 | | TRUE | TRUE |
| 9 | 112137746 - 112260593 | | TRUE | TRUE |
| 9 | 131857073 - 131873468 | | TRUE | TRUE |
| 9 | 131857073 - 131873468 | | TRUE | TRUE |
| 9 | 131857073 - 131873468 | | TRUE | TRUE |
| 9 | 131857073 - 131873468 | F - 6.67% | TRUE | FALSE |
| 9 | 131857073 - 131873468 | | TRUE | TRUE |
| 9 | 131857073 - 131873468 | F - 6.67% | TRUE | TRUE |
| 9 | 131857073 - 131873468 | F - 6.67% | TRUE | TRUE |
| 11 | 67070919 - 67080078 | | TRUE | TRUE |
| 11 | 67070919 - 67080078 | | TRUE | TRUE |
| 11 | 67070919 - 67080078 | | TRUE | TRUE |
| 11 | 67070919 - 67080078 | T - 87.50% | TRUE | TRUE |
| 15 | 59930261 - 59949740 | | TRUE | TRUE |
| 15 | 59930261 - 59949740 | T - 88.89% | TRUE | TRUE |
| 16 | 4896666 - 4932363 | | TRUE | TRUE |
| 16 | 4896666 - 4932363 | F - 28.57% | TRUE | TRUE |
| 19 | 54296855 - 54327648 | T - 72.22% | TRUE | FALSE |
| 19 | 54296855 - 54327648 | | FALSE | TRUE |
| 19 | 54296855 - 54327648 | | FALSE | TRUE |
| 20 | 627259 - 656825 | F - 33.33% | TRUE | TRUE |
| 20 | 627259 - 656825 | | TRUE | TRUE |
| 20 | 627259 - 656825 | F - 44.44% | FALSE | TRUE |
| 22 | 24979718 - 25024972 | F - 7.69% | TRUE | TRUE |
| 22 | 24979718 - 25024972 | | TRUE | TRUE |
| 22 | 24979718 - 25024972 | | TRUE | TRUE |
| 22 | 24979718 - 25024972 | F - 41.03% | TRUE | TRUE |
| 22 | 24979718 - 25024972 | T - 56.41% | TRUE | TRUE |
| 22 | 24979718 - 25024972 | | TRUE | TRUE |
| 22 | 24979718 - 25024972 | | FALSE | TRUE |
| 22 | 24979718 - 25024972 | | TRUE | TRUE |
| 22 | 24979718 - 25024972 | T - 66.67% | FALSE | TRUE |
| 22 | 24979718 - 25024972 | | FALSE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | F - 4.55% | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | F - 4.55% | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | F - 9.09% | FALSE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | T - 50.00% | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | F - 4.55% | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | FALSE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | F - 4.55% | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | | TRUE | TRUE |
| 6_mcf_hap5 | 2230709 - 2241824 | T - 77.27% | FALSE | TRUE |
| 2 | 85538794 - 85555548 | F - 6.67% | TRUE | TRUE |
| 2 | 85538794 - 85555548 | | TRUE | TRUE |
| 2 | 85538794 - 85555548 | | TRUE | TRUE |
| 2 | 85538794 - 85555548 | T - 66.67% | TRUE | TRUE |
| 2 | 85538794 - 85555548 | T - 53.33% | TRUE | TRUE |
| 3 | 99357319 - 99518070 | | TRUE | TRUE |
| 3 | 99357319 - 99518070 | F - 7.69% | TRUE | TRUE |
| 3 | 99357319 - 99518070 | F - 15.38% | TRUE | TRUE |

| | | | | |
|---|---------------------|-------------|-------|-------|
| 4 | 95679119 - 96079601 | | TRUE | TRUE |
| 4 | 95679119 - 96079601 | T - 100.00% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | T - 100.00% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | F - 36.36% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | F - 36.36% | TRUE | FALSE |
| 4 | 95679119 - 96079601 | | TRUE | FALSE |
| 4 | 95679119 - 96079601 | F - 9.09% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | F - 9.09% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | T - 54.55% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | F - 9.09% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | F - 9.09% | FALSE | TRUE |
| 4 | 95679119 - 96079601 | F - 18.18% | TRUE | TRUE |
| 4 | 95679119 - 96079601 | F - 27.27% | FALSE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | FALSE |
| 8 | 27168999 - 27316908 | | TRUE | FALSE |
| 8 | 27168999 - 27316908 | T - 53.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | FALSE |
| 8 | 27168999 - 27316908 | T - 57.14% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 57.14% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 7.14% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 50.00% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 46.43% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 10.71% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 60.71% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 60.71% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 60.71% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 53.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 53.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | T - 50.00% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | FALSE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 7.14% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 7.14% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 21.43% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 3.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 7.14% | FALSE | TRUE |
| 8 | 27168999 - 27316908 | F - 21.43% | FALSE | TRUE |
| 8 | 27168999 - 27316908 | F - 14.29% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 25.00% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | FALSE | TRUE |
| 8 | 27168999 - 27316908 | | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 8 | 27168999 - 27316908 | | FALSE | TRUE |
| 8 | 27168999 - 27316908 | F - 28.57% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | F - 21.43% | TRUE | TRUE |
| 8 | 27168999 - 27316908 | | FALSE | TRUE |
| 8 | 101698044 - 101735037 | | TRUE | TRUE |
| 8 | 101698044 - 101735037 | F - 32.26% | TRUE | TRUE |
| 10 | 134000404 - 134019280 | | TRUE | TRUE |
| 10 | 134000404 - 134019280 | | TRUE | TRUE |
| 10 | 134000404 - 134019280 | | FALSE | TRUE |
| 10 | 134000404 - 134019280 | | FALSE | TRUE |
| 10 | 134000404 - 134019280 | F - 33.33% | FALSE | TRUE |
| 10 | 134000404 - 134019280 | F - 44.44% | TRUE | TRUE |
| 10 | 134000404 - 134019280 | | FALSE | TRUE |
| 10 | 134000404 - 134019280 | T - 66.67% | TRUE | TRUE |
| 10 | 134000404 - 134019280 | | FALSE | TRUE |
| 10 | 88809959 - 88854776 | | TRUE | TRUE |
| 10 | 88809959 - 88854776 | F - 7.14% | TRUE | TRUE |
| 10 | 88809959 - 88854776 | | TRUE | TRUE |
| 11 | 67776048 - 67796743 | | TRUE | TRUE |
| 11 | 67776048 - 67796743 | F - 5.56% | TRUE | TRUE |
| 12 | 53551447 - 53575135 | | TRUE | FALSE |
| 12 | 53551447 - 53575135 | F - 15.15% | TRUE | TRUE |
| 12 | 53551447 - 53575135 | | TRUE | TRUE |
| 13 | 32889611 - 32973809 | | TRUE | TRUE |
| 13 | 32889611 - 32973809 | F - 33.33% | FALSE | TRUE |
| 14 | 106053225 - 106733639 | F - 13.95% | TRUE | TRUE |
| 14 | 106053225 - 106733639 | | TRUE | TRUE |
| 14 | 106053225 - 106733639 | | TRUE | FALSE |
| 14 | 106053225 - 106733639 | | TRUE | FALSE |
| 14 | 106053225 - 106733639 | | TRUE | FALSE |
| 14 | 106053225 - 106733639 | F - 13.95% | TRUE | TRUE |
| 14 | 106053225 - 106733639 | F - 13.95% | FALSE | TRUE |
| 14 | 106053225 - 106733639 | | FALSE | TRUE |
| 17 | 38249037 - 38256978 | T - 50.00% | TRUE | TRUE |
| 17 | 38249037 - 38256978 | | FALSE | TRUE |
| 17 | 38249037 - 38256978 | | FALSE | TRUE |
| 18 | 66340925 - 66382362 | T - 55.56% | TRUE | TRUE |
| 18 | 66340925 - 66382362 | | FALSE | TRUE |
| 18 | 66340925 - 66382362 | | FALSE | TRUE |
| 18 | 66340925 - 66382362 | T - 100.00% | TRUE | TRUE |
| 22 | 43599229 - 43739394 | | TRUE | TRUE |
| 22 | 43599229 - 43739394 | F - 40.00% | TRUE | TRUE |
| 22 | 43599229 - 43739394 | | TRUE | TRUE |
| 6_mann_hap4 | 1201421 - 1206062 | F - 6.25% | TRUE | TRUE |
| 6_mann_hap4 | 1201421 - 1206062 | F - 6.25% | TRUE | TRUE |
| 6_mann_hap4 | 1201421 - 1206062 | | TRUE | TRUE |
| 6_mann_hap4 | 1201421 - 1206062 | F - 12.50% | TRUE | TRUE |
| 6_mann_hap4 | 1201421 - 1206062 | | FALSE | TRUE |
| 2 | 224822121 - 224832431 | T - 50.00% | TRUE | TRUE |
| 2 | 224822121 - 224832431 | | TRUE | TRUE |
| 2 | 224822121 - 224832431 | | TRUE | TRUE |
| 2 | 39963200 - 40006416 | T - 63.64% | TRUE | TRUE |
| 2 | 39963200 - 40006416 | F - 9.09% | FALSE | TRUE |
| 2 | 39963200 - 40006416 | | FALSE | TRUE |
| 2 | 191369068 - 191399468 | | TRUE | TRUE |
| 2 | 191369068 - 191399468 | | TRUE | TRUE |
| 2 | 191369068 - 191399468 | T - 75.00% | TRUE | TRUE |
| 2 | 191369068 - 191399468 | F - 37.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 191369068 - 191399468 | | TRUE | TRUE |
| 4 | 144257915 - 144395721 | | FALSE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 16.67% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 22.22% | TRUE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | FALSE | TRUE |
| 4 | 144257915 - 144395721 | F - 5.56% | FALSE | TRUE |
| 4 | 144257915 - 144395721 | | TRUE | TRUE |
| 4 | 76831808 - 76862204 | | TRUE | FALSE |
| 4 | 76831808 - 76862204 | F - 12.50% | TRUE | TRUE |
| 4 | 76831808 - 76862204 | F - 6.25% | FALSE | TRUE |
| 4 | 76831808 - 76862204 | F - 18.75% | TRUE | TRUE |
| 4 | 76831808 - 76862204 | F - 12.50% | FALSE | TRUE |
| 4 | 76831808 - 76862204 | | FALSE | TRUE |
| 5 | 98105322 - 98109173 | | TRUE | FALSE |
| 5 | 98105322 - 98109173 | T - 71.43% | TRUE | TRUE |
| 5 | 98105322 - 98109173 | F - 28.57% | FALSE | TRUE |
| 9 | 37753802 - 37778969 | | TRUE | FALSE |
| 9 | 37753802 - 37778969 | F - 20.00% | FALSE | TRUE |
| 11 | 64556290 - 64570713 | | TRUE | TRUE |
| 11 | 64556290 - 64570713 | | TRUE | TRUE |
| 11 | 64556290 - 64570713 | | TRUE | FALSE |
| 11 | 64556290 - 64570713 | F - 46.67% | FALSE | TRUE |
| 11 | 119209652 - 119217383 | F - 44.44% | TRUE | TRUE |
| 11 | 119209652 - 119217383 | | TRUE | FALSE |
| 11 | 119209652 - 119217383 | F - 33.33% | TRUE | TRUE |
| 15 | 73344051 - 73597547 | | TRUE | TRUE |
| 15 | 73344051 - 73597547 | | TRUE | TRUE |
| 15 | 73344051 - 73597547 | F - 8.33% | TRUE | TRUE |
| 15 | 73344051 - 73597547 | | TRUE | TRUE |
| 15 | 73344051 - 73597547 | F - 8.33% | TRUE | TRUE |
| 15 | 73344051 - 73597547 | T - 58.33% | TRUE | TRUE |
| 22 | 18111621 - 18213388 | | TRUE | TRUE |
| 22 | 18111621 - 18213388 | | FALSE | TRUE |
| 22 | 18111621 - 18213388 | F - 4.35% | TRUE | TRUE |
| 22 | 18111621 - 18213388 | F - 4.35% | TRUE | TRUE |
| 1 | 7844380 - 7905237 | F - 9.09% | TRUE | TRUE |
| 1 | 7844380 - 7905237 | F - 9.09% | TRUE | TRUE |
| 1 | 7844380 - 7905237 | | TRUE | TRUE |
| 1 | 7844380 - 7905237 | T - 72.73% | TRUE | TRUE |
| 1 | 7844380 - 7905237 | T - 63.64% | TRUE | TRUE |
| 1 | 7844380 - 7905237 | | TRUE | TRUE |
| 1 | 7844380 - 7905237 | | TRUE | TRUE |
| 1 | 29063133 - 29096287 | | TRUE | TRUE |
| 1 | 29063133 - 29096287 | | TRUE | TRUE |
| 1 | 29063133 - 29096287 | F - 6.25% | TRUE | TRUE |
| 1 | 151843343 - 151882361 | | TRUE | FALSE |
| 1 | 151843343 - 151882361 | | TRUE | TRUE |
| 1 | 151843343 - 151882361 | F - 12.50% | TRUE | TRUE |
| 1 | 151843343 - 151882361 | | TRUE | TRUE |
| 1 | 151843343 - 151882361 | F - 12.50% | TRUE | TRUE |
| 2 | 25166505 - 25194963 | F - 18.18% | FALSE | TRUE |
| 2 | 25166505 - 25194963 | | TRUE | TRUE |

| | | | | | |
|---|----|---------------------|-------------|-------|-------|
| | 2 | 25166505 - 25194963 | F - 36.36% | TRUE | TRUE |
| | 2 | 25166505 - 25194963 | F - 45.45% | TRUE | TRUE |
| | 2 | 37064841 - 37193615 | | TRUE | FALSE |
| | 2 | 37064841 - 37193615 | | TRUE | FALSE |
| | 2 | 37064841 - 37193615 | T - 100.00% | TRUE | TRUE |
| | 2 | 37064841 - 37193615 | | TRUE | TRUE |
| | 3 | 33537737 - 33759848 | F - 15.38% | TRUE | FALSE |
| | 3 | 33537737 - 33759848 | | FALSE | TRUE |
| | 3 | 33537737 - 33759848 | | FALSE | TRUE |
| | 5 | 271736 - 438406 | | TRUE | TRUE |
| | 5 | 271736 - 438406 | | TRUE | TRUE |
| | 5 | 271736 - 438406 | F - 2.50% | TRUE | FALSE |
| | 5 | 271736 - 438406 | F - 5.00% | TRUE | TRUE |
| | 5 | 271736 - 438406 | F - 5.00% | FALSE | TRUE |
| | 5 | 271736 - 438406 | | TRUE | TRUE |
| | 5 | 271736 - 438406 | F - 2.50% | TRUE | TRUE |
| | 5 | 271736 - 438406 | | TRUE | TRUE |
| | 5 | 271736 - 438406 | F - 32.50% | FALSE | TRUE |
| | 5 | 271736 - 438406 | F - 32.50% | TRUE | TRUE |
| | 5 | 271736 - 438406 | | FALSE | TRUE |
| | 5 | 271736 - 438406 | F - 40.00% | TRUE | TRUE |
| | 5 | 271736 - 438406 | | FALSE | TRUE |
| | 6 | 3269196 - 3457256 | | TRUE | TRUE |
| | 6 | 3269196 - 3457256 | | TRUE | TRUE |
| | 6 | 3269196 - 3457256 | | TRUE | TRUE |
| | 6 | 3269196 - 3457256 | | TRUE | TRUE |
| | 6 | 3269196 - 3457256 | T - 78.95% | TRUE | TRUE |
| | 6 | 3269196 - 3457256 | | FALSE | TRUE |
| | 6 | 3269196 - 3457256 | | FALSE | TRUE |
| | 6 | 3269196 - 3457256 | T - 78.95% | TRUE | TRUE |
| X | | 24712036 - 25015103 | | TRUE | FALSE |
| X | | 24712036 - 25015103 | | TRUE | FALSE |
| X | | 24712036 - 25015103 | | TRUE | TRUE |
| X | | 24712036 - 25015103 | | TRUE | TRUE |
| X | | 24712036 - 25015103 | | TRUE | TRUE |
| X | | 24712036 - 25015103 | | FALSE | TRUE |
| X | | 24712036 - 25015103 | | TRUE | TRUE |
| X | | 24712036 - 25015103 | F - 42.86% | FALSE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | FALSE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | FALSE |
| | 10 | 97071528 - 97321171 | F - 37.50% | FALSE | TRUE |
| | 10 | 97071528 - 97321171 | F - 2.50% | FALSE | TRUE |
| | 10 | 97071528 - 97321171 | F - 2.50% | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | F - 2.50% | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | | FALSE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 10 | 97071528 - 97321171 | T - 75.00% | FALSE | TRUE |
| | 10 | 97071528 - 97321171 | | TRUE | TRUE |
| | 12 | 22199108 - 22218602 | F - 25.00% | TRUE | TRUE |
| | 12 | 22199108 - 22218602 | | FALSE | TRUE |
| | 12 | 54388679 - 54397121 | | FALSE | TRUE |
| | 12 | 54388679 - 54397121 | | TRUE | TRUE |
| | 12 | 54388679 - 54397121 | F - 20.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 17 | 17714653 - 17740325 | | TRUE | TRUE |
| 17 | 17714653 - 17740325 | | TRUE | TRUE |
| 17 | 17714653 - 17740325 | T - 51.61% | TRUE | TRUE |
| 17 | 17714653 - 17740325 | | FALSE | TRUE |
| 17 | 17714653 - 17740325 | T - 70.97% | TRUE | TRUE |
| 17 | 17714653 - 17740325 | T - 54.84% | TRUE | TRUE |
| 17 | 17714653 - 17740325 | | FALSE | TRUE |
| 17 | 17714653 - 17740325 | | TRUE | TRUE |
| 17 | 17714653 - 17740325 | | TRUE | TRUE |
| 17 | 17714653 - 17740325 | T - 64.52% | FALSE | TRUE |
| 20 | 5095599 - 5107272 | | TRUE | FALSE |
| 20 | 5095599 - 5107272 | F - 28.57% | TRUE | TRUE |
| 1 | 205566695 - 205649630 | | TRUE | TRUE |
| 1 | 205566695 - 205649630 | | TRUE | TRUE |
| 1 | 205566695 - 205649630 | F - 37.50% | TRUE | TRUE |
| 1 | 205566695 - 205649630 | F - 25.00% | TRUE | TRUE |
| 1 | 205566695 - 205649630 | | TRUE | TRUE |
| 2 | 239067623 - 239077541 | | TRUE | TRUE |
| 2 | 239067623 - 239077541 | F - 27.27% | TRUE | TRUE |
| 2 | 239067623 - 239077541 | T - 72.73% | TRUE | TRUE |
| 2 | 239067623 - 239077541 | | TRUE | TRUE |
| 2 | 239067623 - 239077541 | F - 9.09% | TRUE | TRUE |
| 3 | 48509197 - 48542259 | | FALSE | TRUE |
| 3 | 48509197 - 48542259 | F - 25.93% | TRUE | TRUE |
| 3 | 48509197 - 48542259 | | TRUE | TRUE |
| 5 | 64444563 - 64777747 | | TRUE | TRUE |
| 5 | 64444563 - 64777747 | | TRUE | TRUE |
| 5 | 64444563 - 64777747 | | TRUE | TRUE |
| 5 | 64444563 - 64777747 | | FALSE | TRUE |
| 5 | 64444563 - 64777747 | F - 7.14% | FALSE | TRUE |
| 5 | 64444563 - 64777747 | | TRUE | TRUE |
| 5 | 64444563 - 64777747 | | TRUE | TRUE |
| 6 | 114254192 - 114332472 | | TRUE | TRUE |
| 6 | 114254192 - 114332472 | F - 19.05% | TRUE | TRUE |
| 6 | 114254192 - 114332472 | | TRUE | TRUE |
| 6 | 114254192 - 114332472 | F - 4.76% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | T - 50.00% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | FALSE |
| 8 | 21547915 - 21669869 | T - 64.29% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | F - 7.14% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | T - 64.29% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | T - 50.00% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | T - 57.14% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | F - 7.14% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | T - 57.14% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | | FALSE | TRUE |
| 8 | 21547915 - 21669869 | F - 7.14% | FALSE | TRUE |
| 8 | 21547915 - 21669869 | | TRUE | TRUE |
| 8 | 21547915 - 21669869 | F - 7.14% | FALSE | TRUE |

| | | | | |
|------------|---------------------|------------|-------|-------|
| 8 | 21547915 - 21669869 | F - 7.14% | TRUE | TRUE |
| 8 | 21547915 - 21669869 | F - 7.14% | TRUE | TRUE |
| 9 | 36572859 - 36677679 | | TRUE | TRUE |
| 9 | 36572859 - 36677679 | F - 8.70% | TRUE | TRUE |
| 9 | 36572859 - 36677679 | | TRUE | FALSE |
| 9 | 36572859 - 36677679 | | TRUE | FALSE |
| 9 | 36572859 - 36677679 | T - 78.26% | TRUE | TRUE |
| 9 | 36572859 - 36677679 | | TRUE | TRUE |
| 9 | 36572859 - 36677679 | | TRUE | TRUE |
| 6_cox_hap2 | 3606664 - 3616569 | F - 23.53% | TRUE | TRUE |
| 6_cox_hap2 | 3606664 - 3616569 | | TRUE | FALSE |
| 6_cox_hap2 | 3606664 - 3616569 | F - 5.88% | TRUE | FALSE |
| 6_cox_hap2 | 3606664 - 3616569 | | TRUE | TRUE |
| 6_mcf_hap5 | 3515812 - 3525717 | F - 23.53% | TRUE | TRUE |
| 6_mcf_hap5 | 3515812 - 3525717 | | TRUE | FALSE |
| 6_mcf_hap5 | 3515812 - 3525717 | F - 5.88% | TRUE | FALSE |
| 6_mcf_hap5 | 3515812 - 3525717 | | TRUE | TRUE |
| 6_qbl_hap6 | 3397003 - 3406908 | F - 23.53% | TRUE | TRUE |
| 6_qbl_hap6 | 3397003 - 3406908 | | TRUE | FALSE |
| 6_qbl_hap6 | 3397003 - 3406908 | F - 5.88% | TRUE | FALSE |
| 6_qbl_hap6 | 3397003 - 3406908 | | TRUE | TRUE |
| 1 | 17300997 - 17308081 | | TRUE | TRUE |
| 1 | 17300997 - 17308081 | | TRUE | TRUE |
| 1 | 17300997 - 17308081 | T - 90.91% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | T - 72.73% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | F - 9.09% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | F - 9.09% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | F - 9.09% | TRUE | FALSE |
| 1 | 17300997 - 17308081 | F - 27.27% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | T - 54.55% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | F - 36.36% | TRUE | TRUE |
| 1 | 17300997 - 17308081 | F - 9.09% | TRUE | TRUE |
| 2 | 24425733 - 24583583 | F - 5.00% | TRUE | TRUE |
| 2 | 24425733 - 24583583 | | TRUE | TRUE |
| 2 | 24425733 - 24583583 | F - 5.00% | TRUE | TRUE |
| 2 | 24425733 - 24583583 | | TRUE | TRUE |
| 2 | 24425733 - 24583583 | | TRUE | TRUE |
| 2 | 24425733 - 24583583 | | TRUE | TRUE |
| 2 | 24425733 - 24583583 | T - 50.00% | TRUE | TRUE |
| 2 | 24425733 - 24583583 | | TRUE | TRUE |
| 2 | 24425733 - 24583583 | | TRUE | TRUE |
| 3 | 50304990 - 50314977 | | TRUE | TRUE |
| 3 | 50304990 - 50314977 | | TRUE | TRUE |
| 3 | 50304990 - 50314977 | | TRUE | TRUE |
| 3 | 50304990 - 50314977 | F - 3.45% | TRUE | TRUE |
| 3 | 50304990 - 50314977 | T - 65.52% | TRUE | TRUE |
| 3 | 50304990 - 50314977 | | FALSE | TRUE |
| 3 | 50304990 - 50314977 | T - 65.52% | TRUE | TRUE |
| 3 | 50304990 - 50314977 | T - 51.72% | TRUE | TRUE |
| 3 | 50304990 - 50314977 | | TRUE | TRUE |
| 3 | 50304990 - 50314977 | T - 82.76% | TRUE | TRUE |
| 3 | 50304990 - 50314977 | | FALSE | TRUE |
| 3 | 52443510 - 52457657 | T - 62.50% | TRUE | FALSE |
| 3 | 52443510 - 52457657 | F - 12.50% | TRUE | FALSE |
| 3 | 52443510 - 52457657 | | TRUE | TRUE |
| 3 | 52443510 - 52457657 | F - 6.25% | TRUE | TRUE |
| 3 | 52443510 - 52457657 | T - 56.25% | TRUE | TRUE |
| 3 | 9799026 - 9811676 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 3 | 9799026 - 9811676 | F - 12.50% | FALSE | TRUE |
| | 3 | 9799026 - 9811676 | T - 62.50% | TRUE | TRUE |
| | 3 | 9799026 - 9811676 | T - 87.50% | TRUE | TRUE |
| | 3 | 9799026 - 9811676 | | TRUE | TRUE |
| | 3 | 62247494 - 62355005 | | TRUE | TRUE |
| | 3 | 62247494 - 62355005 | T - 69.23% | TRUE | TRUE |
| | 3 | 62247494 - 62355005 | | TRUE | TRUE |
| | 3 | 62247494 - 62355005 | F - 7.69% | TRUE | TRUE |
| | 3 | 62247494 - 62355005 | | TRUE | TRUE |
| | 4 | 926175 - 952444 | | TRUE | FALSE |
| | 4 | 926175 - 952444 | T - 80.00% | TRUE | TRUE |
| | 6 | 155411423 - 155582018 | | TRUE | TRUE |
| | 6 | 155411423 - 155582018 | F - 16.67% | TRUE | TRUE |
| | 6 | 155411423 - 155582018 | | TRUE | TRUE |
| | 6 | 155411423 - 155582018 | | TRUE | TRUE |
| | 6 | 155411423 - 155582018 | | TRUE | TRUE |
| | 7 | 44084232 - 44101315 | | TRUE | TRUE |
| | 7 | 44084232 - 44101315 | F - 48.48% | TRUE | TRUE |
| | 7 | 44084232 - 44101315 | | TRUE | TRUE |
| X | | 101975616 - 102008468 | | TRUE | TRUE |
| X | | 101975616 - 102008468 | | TRUE | TRUE |
| X | | 101975616 - 102008468 | T - 64.71% | TRUE | TRUE |
| X | | 152953554 - 152962048 | | TRUE | TRUE |
| X | | 152953554 - 152962048 | F - 16.67% | TRUE | TRUE |
| X | | 152953554 - 152962048 | F - 5.56% | FALSE | TRUE |
| X | | 152953554 - 152962048 | | FALSE | TRUE |
| X | | 152953554 - 152962048 | F - 11.11% | TRUE | TRUE |
| X | | 152953554 - 152962048 | F - 5.56% | TRUE | TRUE |
| X | | 152953554 - 152962048 | F - 22.22% | TRUE | TRUE |
| | 10 | 15144583 - 15210695 | F - 15.38% | TRUE | FALSE |
| | 10 | 15144583 - 15210695 | | TRUE | FALSE |
| | 10 | 15144583 - 15210695 | F - 7.69% | TRUE | TRUE |
| | 10 | 15144583 - 15210695 | F - 15.38% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | F - 9.09% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | F - 36.36% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | T - 81.82% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | T - 72.73% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | T - 72.73% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | T - 72.73% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | T - 72.73% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | T - 81.82% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 12 | 120123595 - 120315095 | T - 72.73% | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | TRUE | TRUE |
| | 12 | 120123595 - 120315095 | | FALSE | TRUE |
| | 13 | 35516424 - 36247159 | F - 45.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | T - 50.00% | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | F - 25.00% | TRUE | TRUE |
| 13 | 35516424 - 36247159 | F - 5.00% | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | TRUE | TRUE |
| 13 | 35516424 - 36247159 | | FALSE | TRUE |
| 17 | 48241575 - 48253293 | | TRUE | TRUE |
| 17 | 48241575 - 48253293 | F - 5.88% | TRUE | TRUE |
| 17 | 48241575 - 48253293 | | TRUE | TRUE |
| 17 | 48241575 - 48253293 | | FALSE | TRUE |
| 17 | 48241575 - 48253293 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | F - 23.08% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | F - 23.08% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | F - 7.69% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | T - 92.31% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | F - 23.08% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | F - 30.77% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | T - 53.85% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | TRUE | TRUE |
| 1 | 202995626 - 203047864 | T - 76.92% | FALSE | TRUE |
| 1 | 202995626 - 203047864 | T - 92.31% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | T - 76.92% | FALSE | TRUE |
| 1 | 202995626 - 203047864 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | T - 92.31% | TRUE | TRUE |
| 1 | 202995626 - 203047864 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | | FALSE | TRUE |
| 1 | 202995626 - 203047864 | F - 15.38% | TRUE | TRUE |
| 2 | 29320560 - 29412509 | F - 21.74% | TRUE | FALSE |
| 2 | 29320560 - 29412509 | | FALSE | TRUE |
| 4 | 56719782 - 56771244 | F - 7.69% | TRUE | TRUE |
| 4 | 56719782 - 56771244 | | TRUE | FALSE |
| 4 | 56719782 - 56771244 | | TRUE | TRUE |
| 4 | 56719782 - 56771244 | | TRUE | TRUE |
| 5 | 96496571 - 96519005 | F - 10.00% | TRUE | TRUE |
| 5 | 96496571 - 96519005 | | TRUE | TRUE |
| 5 | 115779251 - 115910630 | | TRUE | FALSE |
| 5 | 115779251 - 115910630 | | TRUE | FALSE |
| 5 | 115779251 - 115910630 | | TRUE | FALSE |
| 5 | 115779251 - 115910630 | | TRUE | FALSE |
| 5 | 115779251 - 115910630 | | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 5 | 115779251 - 115910630 | F - 4.55% | TRUE | TRUE |
| | 5 | 158122923 - 158526788 | F - 5.88% | TRUE | FALSE |
| | 5 | 158122923 - 158526788 | T - 88.24% | TRUE | TRUE |
| | 5 | 158122923 - 158526788 | | TRUE | TRUE |
| | 5 | 158122923 - 158526788 | | TRUE | TRUE |
| | 6 | 70924764 - 71012786 | | TRUE | TRUE |
| | 6 | 70924764 - 71012786 | | TRUE | FALSE |
| | 6 | 70924764 - 71012786 | | TRUE | FALSE |
| | 6 | 70924764 - 71012786 | | TRUE | TRUE |
| | 6 | 70924764 - 71012786 | T - 73.33% | TRUE | TRUE |
| | 8 | 7213039 - 7243080 | T - 50.00% | TRUE | TRUE |
| | 8 | 7213039 - 7243080 | T - 100.00% | TRUE | TRUE |
| | 8 | 7213039 - 7243080 | | TRUE | TRUE |
| | 9 | 34398182 - 34458568 | | TRUE | TRUE |
| | 9 | 34398182 - 34458568 | | TRUE | TRUE |
| | 9 | 34398182 - 34458568 | | TRUE | TRUE |
| | 9 | 34398182 - 34458568 | T - 64.71% | TRUE | TRUE |
| X | | 69664705 - 69725339 | F - 40.00% | TRUE | TRUE |
| X | | 69664705 - 69725339 | | TRUE | TRUE |
| X | | 69664705 - 69725339 | | TRUE | TRUE |
| X | | 69664705 - 69725339 | | TRUE | TRUE |
| X | | 69664705 - 69725339 | F - 40.00% | TRUE | TRUE |
| X | | 69664705 - 69725339 | F - 20.00% | TRUE | TRUE |
| X | | 69664705 - 69725339 | F - 40.00% | TRUE | TRUE |
| X | | 69664705 - 69725339 | | TRUE | TRUE |
| X | | 69664705 - 69725339 | | FALSE | TRUE |
| | 11 | 118401756 - 118417995 | | TRUE | FALSE |
| | 11 | 118401756 - 118417995 | F - 4.76% | TRUE | TRUE |
| | 11 | 118401756 - 118417995 | T - 61.90% | TRUE | TRUE |
| | 11 | 118401756 - 118417995 | T - 50.00% | TRUE | TRUE |
| | 11 | 118401756 - 118417995 | F - 9.52% | TRUE | TRUE |
| | 11 | 118401756 - 118417995 | T - 66.67% | TRUE | TRUE |
| | 11 | 118401756 - 118417995 | T - 80.95% | TRUE | TRUE |
| | 11 | 118401756 - 118417995 | F - 4.76% | FALSE | TRUE |
| | 11 | 118401756 - 118417995 | | FALSE | TRUE |
| | 12 | 53200327 - 53208335 | T - 100.00% | TRUE | TRUE |
| | 12 | 53200327 - 53208335 | | TRUE | TRUE |
| | 13 | 99445741 - 99738879 | | TRUE | TRUE |
| | 13 | 99445741 - 99738879 | F - 2.22% | TRUE | TRUE |
| | 13 | 99445741 - 99738879 | | FALSE | TRUE |
| | 13 | 99445741 - 99738879 | | TRUE | TRUE |
| | 13 | 99445741 - 99738879 | | FALSE | TRUE |
| | 13 | 99445741 - 99738879 | | FALSE | TRUE |
| | 13 | 103418340 - 103426161 | | TRUE | TRUE |
| | 13 | 103418340 - 103426161 | F - 40.00% | TRUE | TRUE |
| | 13 | 103418340 - 103426161 | | TRUE | TRUE |
| | 13 | 103418340 - 103426161 | | TRUE | TRUE |
| | 15 | 66839806 - 66858317 | | TRUE | TRUE |
| | 15 | 66839806 - 66858317 | | TRUE | TRUE |
| | 15 | 66839806 - 66858317 | | TRUE | TRUE |
| | 15 | 66839806 - 66858317 | T - 66.67% | FALSE | TRUE |
| | 15 | 66839806 - 66858317 | | TRUE | TRUE |
| | 15 | 66839806 - 66858317 | | FALSE | TRUE |
| | 16 | 284545 - 319942 | | TRUE | FALSE |
| | 16 | 284545 - 319942 | | TRUE | TRUE |
| | 16 | 284545 - 319942 | F - 8.33% | TRUE | TRUE |
| | 16 | 284545 - 319942 | | TRUE | TRUE |
| | 16 | 284545 - 319942 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 16 | 284545 - 319942 | | TRUE | TRUE |
| 16 | 284545 - 319942 | F - 4.17% | TRUE | TRUE |
| 16 | 284545 - 319942 | | FALSE | TRUE |
| 1 | 214776532 - 214837931 | F - 14.29% | TRUE | TRUE |
| 1 | 214776532 - 214837931 | | FALSE | TRUE |
| 1 | 214776532 - 214837931 | F - 28.57% | FALSE | TRUE |
| 1 | 214776532 - 214837931 | T - 57.14% | FALSE | TRUE |
| 1 | 214776532 - 214837931 | | TRUE | TRUE |
| 1 | 214776532 - 214837931 | F - 42.86% | TRUE | TRUE |
| 2 | 166326157 - 166545917 | T - 50.00% | TRUE | FALSE |
| 2 | 166326157 - 166545917 | | TRUE | FALSE |
| 2 | 166326157 - 166545917 | | TRUE | TRUE |
| 2 | 148687966 - 148779173 | F - 29.03% | TRUE | TRUE |
| 2 | 148687966 - 148779173 | | TRUE | TRUE |
| 2 | 148687966 - 148779173 | F - 3.23% | TRUE | TRUE |
| 2 | 148687966 - 148779173 | | TRUE | TRUE |
| 2 | 148687966 - 148779173 | | TRUE | TRUE |
| 2 | 148687966 - 148779173 | T - 61.29% | TRUE | TRUE |
| 2 | 148687966 - 148779173 | | TRUE | TRUE |
| 3 | 49460379 - 49466759 | F - 7.14% | TRUE | TRUE |
| 3 | 49460379 - 49466759 | | TRUE | TRUE |
| 3 | 49460379 - 49466759 | F - 35.71% | TRUE | TRUE |
| 3 | 49460379 - 49466759 | | TRUE | TRUE |
| 3 | 49460379 - 49466759 | F - 28.57% | TRUE | TRUE |
| 3 | 49460379 - 49466759 | F - 14.29% | TRUE | TRUE |
| 3 | 49460379 - 49466759 | F - 21.43% | TRUE | TRUE |
| 5 | 54921673 - 55069022 | | TRUE | FALSE |
| 5 | 54921673 - 55069022 | F - 17.14% | TRUE | TRUE |
| 5 | 54921673 - 55069022 | | TRUE | TRUE |
| 5 | 54921673 - 55069022 | F - 2.86% | FALSE | TRUE |
| 5 | 54921673 - 55069022 | | TRUE | TRUE |
| 7 | 21467652 - 21554440 | F - 11.11% | TRUE | TRUE |
| 7 | 21467652 - 21554440 | | TRUE | TRUE |
| 7 | 21467652 - 21554440 | T - 88.89% | TRUE | TRUE |
| 7 | 21467652 - 21554440 | | TRUE | TRUE |
| 7 | 21467652 - 21554440 | | TRUE | TRUE |
| 7 | 21467652 - 21554440 | F - 11.11% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | TRUE | TRUE |
| 7 | 40174575 - 40900366 | T - 52.94% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | F - 5.88% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | TRUE | TRUE |
| 7 | 40174575 - 40900366 | F - 23.53% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | F - 5.88% | TRUE | FALSE |
| 7 | 40174575 - 40900366 | F - 5.88% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | FALSE | TRUE |
| 7 | 40174575 - 40900366 | | TRUE | TRUE |
| 7 | 40174575 - 40900366 | F - 5.88% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | F - 5.88% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | T - 76.47% | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | FALSE | TRUE |
| 7 | 40174575 - 40900366 | | TRUE | TRUE |
| 7 | 40174575 - 40900366 | | FALSE | TRUE |
| 7 | 40174575 - 40900366 | | FALSE | TRUE |
| 7 | 114562209 - 114659970 | | TRUE | FALSE |
| 7 | 114562209 - 114659970 | F - 44.44% | TRUE | TRUE |
| 7 | 114562209 - 114659970 | F - 11.11% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 7 | 111366164 - 111846466 | | TRUE | FALSE |
| | 7 | 111366164 - 111846466 | | TRUE | TRUE |
| | 7 | 111366164 - 111846466 | | TRUE | TRUE |
| | 7 | 111366164 - 111846466 | F - 37.50% | TRUE | TRUE |
| | 7 | 111366164 - 111846466 | F - 3.13% | TRUE | TRUE |
| | 7 | 111366164 - 111846466 | | FALSE | TRUE |
| | 7 | 111366164 - 111846466 | | FALSE | TRUE |
| | 9 | 72042449 - 72287275 | | TRUE | TRUE |
| | 9 | 72042449 - 72287275 | F - 40.00% | TRUE | TRUE |
| | 9 | 72042449 - 72287275 | | FALSE | TRUE |
| Y | | 23200175 - 23206610 | | TRUE | TRUE |
| Y | | 23200175 - 23206610 | T - 100.00% | TRUE | TRUE |
| | 10 | 64926981 - 65225722 | | TRUE | TRUE |
| | 10 | 64926981 - 65225722 | | TRUE | TRUE |
| | 10 | 64926981 - 65225722 | F - 4.55% | TRUE | TRUE |
| | 10 | 64926981 - 65225722 | | TRUE | TRUE |
| | 10 | 64926981 - 65225722 | | FALSE | TRUE |
| | 10 | 64926981 - 65225722 | | FALSE | TRUE |
| | 10 | 75434033 - 75490272 | F - 25.00% | TRUE | TRUE |
| | 10 | 75434033 - 75490272 | | TRUE | TRUE |
| | 10 | 75434033 - 75490272 | | TRUE | TRUE |
| | 13 | 52342129 - 52378293 | | TRUE | FALSE |
| | 13 | 52342129 - 52378293 | F - 27.27% | TRUE | TRUE |
| | 16 | 57220209 - 57274386 | | TRUE | TRUE |
| | 16 | 57220209 - 57274386 | F - 33.33% | TRUE | TRUE |
| | 16 | 21413455 - 21458484 | | TRUE | TRUE |
| | 16 | 21413455 - 21458484 | | TRUE | TRUE |
| | 16 | 21413455 - 21458484 | F - 11.11% | TRUE | TRUE |
| | 17 | 2699732 - 2941035 | | TRUE | FALSE |
| | 17 | 2699732 - 2941035 | T - 75.00% | TRUE | TRUE |
| | 17 | 2699732 - 2941035 | | FALSE | TRUE |
| | 17 | 2699732 - 2941035 | | FALSE | TRUE |
| | 17 | 2699732 - 2941035 | | FALSE | TRUE |
| | 17 | 2699732 - 2941035 | | FALSE | TRUE |
| | 17 | 2699732 - 2941035 | | FALSE | TRUE |
| | 17 | 2699732 - 2941035 | | TRUE | TRUE |
| | 17 | 2699732 - 2941035 | T - 100.00% | TRUE | TRUE |
| | 17 | 2699732 - 2941035 | | FALSE | TRUE |
| | 17 | 7120444 - 7128587 | F - 7.69% | TRUE | TRUE |
| | 17 | 7120444 - 7128587 | | TRUE | TRUE |
| | 17 | 48503519 - 48552206 | F - 3.13% | TRUE | TRUE |
| | 17 | 48503519 - 48552206 | | TRUE | TRUE |
| | 17 | 48503519 - 48552206 | F - 12.50% | TRUE | FALSE |
| | 17 | 48503519 - 48552206 | F - 37.50% | TRUE | TRUE |
| | 17 | 48503519 - 48552206 | F - 12.50% | TRUE | TRUE |
| | 17 | 48503519 - 48552206 | F - 3.13% | TRUE | TRUE |
| | 17 | 48503519 - 48552206 | F - 3.13% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | F - 16.67% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | F - 8.33% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | F - 33.33% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | F - 25.00% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | F - 16.67% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | F - 16.67% | TRUE | TRUE |
| | 19 | 45250962 - 45263301 | | TRUE | TRUE |
| | 6 | 143857982 - 144152322 | | TRUE | FALSE |
| | 6 | 143857982 - 144152322 | F - 12.50% | TRUE | TRUE |
| | 1 | 35899091 - 36023551 | | TRUE | TRUE |
| | 1 | 35899091 - 36023551 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 35899091 - 36023551 | F - 3.70% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | F - 29.63% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | | TRUE | TRUE |
| 1 | 35899091 - 36023551 | F - 14.81% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | F - 3.70% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | F - 3.70% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | F - 11.11% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | F - 3.70% | TRUE | TRUE |
| 1 | 35899091 - 36023551 | | FALSE | TRUE |
| 1 | 35899091 - 36023551 | | TRUE | TRUE |
| 1 | 35899091 - 36023551 | | TRUE | TRUE |
| 1 | 146214651 - 146253110 | F - 25.00% | TRUE | TRUE |
| 1 | 146214651 - 146253110 | | TRUE | TRUE |
| 3 | 186838736 - 186898696 | T - 80.00% | TRUE | TRUE |
| 3 | 186838736 - 186898696 | | TRUE | TRUE |
| 4 | 57204451 - 57253666 | | TRUE | TRUE |
| 4 | 57204451 - 57253666 | F - 5.56% | TRUE | TRUE |
| 4 | 57204451 - 57253666 | | FALSE | TRUE |
| 5 | 159828648 - 159848718 | F - 7.69% | TRUE | FALSE |
| 5 | 159828648 - 159848718 | | FALSE | TRUE |
| 8 | 26240414 - 26363152 | F - 14.29% | TRUE | TRUE |
| 8 | 26240414 - 26363152 | F - 21.43% | TRUE | TRUE |
| 8 | 26240414 - 26363152 | | TRUE | TRUE |
| 8 | 26240414 - 26363152 | | TRUE | TRUE |
| 8 | 26240414 - 26363152 | F - 35.71% | TRUE | TRUE |
| 8 | 26240414 - 26363152 | T - 64.29% | TRUE | TRUE |
| 8 | 37594097 - 37616619 | | TRUE | TRUE |
| 8 | 37594097 - 37616619 | | TRUE | TRUE |
| 8 | 37594097 - 37616619 | | TRUE | TRUE |
| 8 | 37594097 - 37616619 | | TRUE | TRUE |
| 8 | 37594097 - 37616619 | F - 5.88% | FALSE | TRUE |
| 8 | 37594097 - 37616619 | F - 23.53% | TRUE | TRUE |
| 8 | 99129521 - 99172069 | | TRUE | TRUE |
| 8 | 99129521 - 99172069 | F - 37.50% | TRUE | FALSE |
| 12 | 39045987 - 39301232 | | TRUE | TRUE |
| 12 | 39045987 - 39301232 | | TRUE | FALSE |
| 12 | 39045987 - 39301232 | | TRUE | TRUE |
| 12 | 39045987 - 39301232 | T - 87.50% | TRUE | TRUE |
| 12 | 39045987 - 39301232 | | FALSE | TRUE |
| 12 | 109176466 - 109251366 | F - 16.67% | TRUE | TRUE |
| 12 | 109176466 - 109251366 | | TRUE | TRUE |
| 12 | 109176466 - 109251366 | F - 41.67% | TRUE | TRUE |
| 17 | 57936841 - 57970306 | | TRUE | TRUE |
| 17 | 57936841 - 57970306 | T - 73.33% | TRUE | TRUE |
| 17 | 57936841 - 57970306 | | TRUE | TRUE |
| 17 | 57936841 - 57970306 | T - 73.33% | FALSE | TRUE |
| 17 | 48620419 - 48633213 | | TRUE | TRUE |
| 17 | 48620419 - 48633213 | | TRUE | TRUE |
| 17 | 48620419 - 48633213 | F - 2.70% | TRUE | TRUE |
| 17 | 48620419 - 48633213 | F - 2.70% | TRUE | TRUE |
| 17 | 48620419 - 48633213 | | TRUE | TRUE |
| 17 | 48620419 - 48633213 | F - 8.11% | TRUE | TRUE |
| 17 | 48620419 - 48633213 | F - 10.81% | TRUE | TRUE |
| 17 | 48620419 - 48633213 | F - 2.70% | TRUE | TRUE |
| 17 | 48620419 - 48633213 | F - 2.70% | FALSE | TRUE |
| 17 | 48620419 - 48633213 | | TRUE | TRUE |
| 17 | 48620419 - 48633213 | T - 67.57% | FALSE | TRUE |
| 17 | 48620419 - 48633213 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 6_apd_hap1 | 3450724 - 3460629 | F - 23.53% | TRUE | TRUE |
| 6_apd_hap1 | 3450724 - 3460629 | | TRUE | FALSE |
| 6_apd_hap1 | 3450724 - 3460629 | F - 5.88% | TRUE | FALSE |
| 6_apd_hap1 | 3450724 - 3460629 | | TRUE | TRUE |
| 6_cox_hap2 | 3479583 - 3547813 | | TRUE | TRUE |
| 6_cox_hap2 | 3479583 - 3547813 | | TRUE | TRUE |
| 6_cox_hap2 | 3479583 - 3547813 | F - 28.57% | FALSE | TRUE |
| 6_dbb_hap3 | 3288148 - 3356325 | | TRUE | TRUE |
| 6_dbb_hap3 | 3288148 - 3356325 | | TRUE | TRUE |
| 6_dbb_hap3 | 3288148 - 3356325 | T - 66.67% | FALSE | TRUE |
| 6_dbb_hap3 | 3288148 - 3356325 | F - 33.33% | FALSE | TRUE |
| 6_ssto_hap7 | 3483711 - 3493616 | F - 23.53% | TRUE | TRUE |
| 6_ssto_hap7 | 3483711 - 3493616 | | TRUE | FALSE |
| 6_ssto_hap7 | 3483711 - 3493616 | F - 5.88% | TRUE | FALSE |
| 6_ssto_hap7 | 3483711 - 3493616 | | TRUE | TRUE |
| 1 | 67995313 - 67998012 | | TRUE | TRUE |
| 1 | 67995313 - 67998012 | T - 100.00% | TRUE | TRUE |
| 2 | 175296375 - 175351822 | T - 66.67% | TRUE | TRUE |
| 2 | 175296375 - 175351822 | | TRUE | TRUE |
| 2 | 175296375 - 175351822 | T - 66.67% | TRUE | TRUE |
| 2 | 175296375 - 175351822 | | TRUE | TRUE |
| 3 | 105085557 - 105295757 | F - 10.53% | TRUE | TRUE |
| 3 | 105085557 - 105295757 | | TRUE | TRUE |
| 3 | 139108657 - 139302161 | F - 28.57% | TRUE | TRUE |
| 3 | 139108657 - 139302161 | | FALSE | TRUE |
| 3 | 15083967 - 15106842 | | TRUE | TRUE |
| 3 | 15083967 - 15106842 | | TRUE | TRUE |
| 3 | 15083967 - 15106842 | T - 81.82% | TRUE | TRUE |
| 3 | 15083967 - 15106842 | F - 45.45% | TRUE | TRUE |
| 3 | 48334754 - 48343175 | | TRUE | TRUE |
| 3 | 48334754 - 48343175 | | TRUE | TRUE |
| 3 | 48334754 - 48343175 | F - 3.85% | TRUE | TRUE |
| 3 | 48334754 - 48343175 | | TRUE | TRUE |
| 3 | 52579368 - 52719933 | | TRUE | TRUE |
| 3 | 52579368 - 52719933 | | TRUE | TRUE |
| 3 | 52579368 - 52719933 | | TRUE | TRUE |
| 3 | 52579368 - 52719933 | | TRUE | FALSE |
| 3 | 52579368 - 52719933 | F - 40.00% | TRUE | FALSE |
| 3 | 52579368 - 52719933 | | TRUE | TRUE |
| 6 | 109169619 - 109295352 | | TRUE | TRUE |
| 6 | 109169619 - 109295352 | | TRUE | TRUE |
| 6 | 109169619 - 109295352 | | FALSE | TRUE |
| 6 | 109169619 - 109295352 | T - 87.50% | FALSE | TRUE |
| 10 | 90973326 - 91174382 | | TRUE | FALSE |
| 10 | 90973326 - 91174382 | | TRUE | FALSE |
| 10 | 90973326 - 91174382 | | TRUE | TRUE |
| 10 | 90973326 - 91174382 | F - 8.70% | TRUE | TRUE |
| 10 | 90973326 - 91174382 | T - 60.87% | FALSE | TRUE |
| 10 | 90973326 - 91174382 | | TRUE | TRUE |
| 10 | 90973326 - 91174382 | | FALSE | TRUE |
| 11 | 104896235 - 104972158 | F - 11.43% | TRUE | TRUE |
| 11 | 104896235 - 104972158 | | TRUE | TRUE |
| 11 | 104896235 - 104972158 | F - 14.29% | TRUE | TRUE |
| 11 | 104896235 - 104972158 | | FALSE | TRUE |
| 12 | 6980099 - 6998522 | F - 37.50% | TRUE | TRUE |
| 12 | 6980099 - 6998522 | | FALSE | TRUE |
| 15 | 28982729 - 29024285 | | TRUE | TRUE |
| 15 | 28982729 - 29024285 | F - 12.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 16 | 57653650 - 57698944 | F - 17.65% | TRUE | TRUE |
| 16 | 57653650 - 57698944 | F - 11.76% | TRUE | TRUE |
| 16 | 57653650 - 57698944 | F - 41.18% | TRUE | TRUE |
| 16 | 57653650 - 57698944 | | TRUE | TRUE |
| 16 | 57653650 - 57698944 | | TRUE | TRUE |
| 16 | 57653650 - 57698944 | | TRUE | TRUE |
| 16 | 57653650 - 57698944 | F - 11.76% | TRUE | TRUE |
| 16 | 57653650 - 57698944 | | TRUE | TRUE |
| 16 | 57653650 - 57698944 | F - 11.76% | FALSE | TRUE |
| 16 | 57653650 - 57698944 | F - 5.88% | TRUE | TRUE |
| 16 | 57653650 - 57698944 | T - 82.35% | FALSE | TRUE |
| 16 | 57653650 - 57698944 | | TRUE | TRUE |
| 17 | 6588032 - 6616740 | | TRUE | FALSE |
| 17 | 6588032 - 6616740 | T - 90.91% | TRUE | TRUE |
| 17 | 6588032 - 6616740 | T - 100.00% | TRUE | TRUE |
| 17 | 6588032 - 6616740 | T - 90.91% | TRUE | TRUE |
| 17 | 6588032 - 6616740 | F - 9.09% | TRUE | TRUE |
| 17 | 6588032 - 6616740 | | TRUE | TRUE |
| 19 | 36359138 - 36370699 | | TRUE | TRUE |
| 19 | 36359138 - 36370699 | F - 42.86% | TRUE | TRUE |
| 19 | 36359138 - 36370699 | F - 14.29% | TRUE | TRUE |
| 19 | 36359138 - 36370699 | T - 57.14% | TRUE | TRUE |
| 19 | 36359138 - 36370699 | | FALSE | TRUE |
| 19 | 36359138 - 36370699 | | TRUE | TRUE |
| 19 | 36359138 - 36370699 | T - 100.00% | TRUE | TRUE |
| 19 | 36359138 - 36370699 | T - 85.71% | TRUE | TRUE |
| 22 | 39378352 - 39394225 | F - 11.11% | TRUE | TRUE |
| 22 | 39378352 - 39394225 | | TRUE | TRUE |
| 22 | 39378352 - 39394225 | | TRUE | TRUE |
| 22 | 39378352 - 39394225 | F - 22.22% | TRUE | TRUE |
| 22 | 39378352 - 39394225 | | FALSE | TRUE |
| 22 | 39378352 - 39394225 | | FALSE | TRUE |
| 22 | 39378352 - 39394225 | | TRUE | TRUE |
| 22 | 39378352 - 39394225 | | TRUE | TRUE |
| 1 | 162760492 - 162782608 | F - 31.25% | TRUE | FALSE |
| 1 | 162760492 - 162782608 | T - 68.75% | TRUE | TRUE |
| 1 | 162760492 - 162782608 | | TRUE | TRUE |
| 1 | 162760492 - 162782608 | T - 68.75% | TRUE | TRUE |
| 1 | 38326369 - 38412729 | F - 29.41% | TRUE | TRUE |
| 1 | 38326369 - 38412729 | | FALSE | TRUE |
| 1 | 43212006 - 43232755 | | TRUE | TRUE |
| 1 | 43212006 - 43232755 | F - 10.53% | TRUE | TRUE |
| 1 | 43212006 - 43232755 | | TRUE | FALSE |
| 1 | 43212006 - 43232755 | F - 10.53% | TRUE | TRUE |
| 1 | 45468212 - 45477027 | F - 8.33% | TRUE | TRUE |
| 1 | 45468212 - 45477027 | | TRUE | TRUE |
| 1 | 45468212 - 45477027 | F - 16.67% | TRUE | TRUE |
| 1 | 45468212 - 45477027 | F - 8.33% | TRUE | TRUE |
| 1 | 45468212 - 45477027 | F - 8.33% | TRUE | TRUE |
| 1 | 45468212 - 45477027 | | TRUE | TRUE |
| 1 | 45468212 - 45477027 | F - 16.67% | TRUE | TRUE |
| 1 | 45468212 - 45477027 | F - 16.67% | TRUE | TRUE |
| 2 | 27193480 - 27250087 | | TRUE | TRUE |
| 2 | 27193480 - 27250087 | F - 8.33% | TRUE | TRUE |
| 2 | 27193480 - 27250087 | | TRUE | TRUE |
| 2 | 234742062 - 234763212 | | TRUE | TRUE |
| 2 | 234742062 - 234763212 | | TRUE | TRUE |
| 2 | 234742062 - 234763212 | T - 58.33% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 234742062 - 234763212 | T - 75.00% | TRUE | TRUE |
| 2 | 234742062 - 234763212 | | TRUE | TRUE |
| 2 | 234742062 - 234763212 | T - 66.67% | TRUE | TRUE |
| 2 | 234742062 - 234763212 | | FALSE | TRUE |
| 2 | 234742062 - 234763212 | T - 75.00% | TRUE | TRUE |
| 5 | 52083730 - 52255037 | F - 16.67% | TRUE | TRUE |
| 5 | 52083730 - 52255037 | F - 8.33% | TRUE | TRUE |
| 5 | 52083730 - 52255037 | | TRUE | TRUE |
| 5 | 52083730 - 52255037 | | TRUE | TRUE |
| 17 | 16342289 - 16373962 | | TRUE | FALSE |
| 17 | 16342289 - 16373962 | | TRUE | FALSE |
| 17 | 16342289 - 16373962 | F - 14.04% | TRUE | TRUE |
| 17 | 16342289 - 16373962 | | TRUE | TRUE |
| 17 | 16342289 - 16373962 | | FALSE | TRUE |
| 17 | 16342289 - 16373962 | F - 8.77% | FALSE | TRUE |
| 17 | 43325303 - 43345997 | | TRUE | TRUE |
| 17 | 43325303 - 43345997 | T - 66.67% | TRUE | TRUE |
| 17 | 40253422 - 40264751 | | TRUE | TRUE |
| 17 | 40253422 - 40264751 | T - 71.43% | FALSE | TRUE |
| 17 | 40253422 - 40264751 | | FALSE | TRUE |
| 17 | 40253422 - 40264751 | F - 28.57% | TRUE | FALSE |
| 1 | 11869 - 14409 | | TRUE | TRUE |
| 1 | 11869 - 14409 | T - 100.00% | TRUE | TRUE |
| 1 | 11869 - 14409 | T - 80.00% | TRUE | TRUE |
| 1 | 156495197 - 156542396 | | TRUE | TRUE |
| 1 | 156495197 - 156542396 | F - 42.86% | TRUE | TRUE |
| 1 | 156495197 - 156542396 | T - 71.43% | TRUE | TRUE |
| 1 | 156495197 - 156542396 | | FALSE | TRUE |
| 1 | 156495197 - 156542396 | F - 42.86% | TRUE | TRUE |
| 1 | 156495197 - 156542396 | | FALSE | TRUE |
| 1 | 156495197 - 156542396 | | FALSE | TRUE |
| 1 | 156495197 - 156542396 | | FALSE | TRUE |
| 1 | 156495197 - 156542396 | | FALSE | TRUE |
| 1 | 156495197 - 156542396 | | FALSE | TRUE |
| 2 | 160569000 - 160625359 | F - 13.33% | TRUE | TRUE |
| 2 | 160569000 - 160625359 | | FALSE | TRUE |
| 2 | 38789120 - 38830728 | | TRUE | TRUE |
| 2 | 38789120 - 38830728 | | TRUE | TRUE |
| 2 | 38789120 - 38830728 | F - 37.50% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | F - 9.09% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | F - 36.36% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | F - 45.45% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | F - 18.18% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | T - 54.55% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | | TRUE | TRUE |
| 3 | 137780827 - 137834660 | F - 45.45% | TRUE | TRUE |
| 3 | 137780827 - 137834660 | | TRUE | TRUE |
| 4 | 128702976 - 128755226 | T - 62.50% | TRUE | TRUE |
| 4 | 128702976 - 128755226 | F - 12.50% | FALSE | TRUE |
| 4 | 128702976 - 128755226 | F - 12.50% | TRUE | TRUE |
| 4 | 128702976 - 128755226 | F - 12.50% | TRUE | TRUE |
| 4 | 128702976 - 128755226 | T - 50.00% | TRUE | TRUE |
| 4 | 128702976 - 128755226 | | FALSE | TRUE |
| 4 | 128702976 - 128755226 | | FALSE | TRUE |
| 4 | 128702976 - 128755226 | | TRUE | TRUE |
| 4 | 174309299 - 174327531 | | TRUE | TRUE |
| 4 | 174309299 - 174327531 | F - 25.00% | TRUE | TRUE |
| 4 | 140187317 - 140201492 | T - 50.00% | TRUE | TRUE |
| 4 | 140187317 - 140201492 | T - 100.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 4 | 140187317 - 140201492 | | TRUE | TRUE |
| 4 | 140187317 - 140201492 | | FALSE | TRUE |
| 5 | 140566893 - 140571111 | | TRUE | TRUE |
| 5 | 140566893 - 140571111 | T - 100.00% | TRUE | TRUE |
| 5 | 140566893 - 140571111 | T - 50.00% | FALSE | TRUE |
| 5 | 34905366 - 34919094 | | TRUE | TRUE |
| 5 | 34905366 - 34919094 | F - 7.14% | TRUE | TRUE |
| 5 | 115140430 - 115152651 | | TRUE | FALSE |
| 5 | 115140430 - 115152651 | | TRUE | TRUE |
| 5 | 115140430 - 115152651 | T - 100.00% | TRUE | FALSE |
| 5 | 115140430 - 115152651 | F - 16.67% | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | FALSE |
| 9 | 97488951 - 97849500 | F - 25.64% | TRUE | TRUE |
| 9 | 97488951 - 97849500 | F - 2.56% | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | F - 25.64% | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | FALSE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | F - 2.56% | FALSE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | F - 12.82% | FALSE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | TRUE | TRUE |
| 9 | 97488951 - 97849500 | F - 30.77% | TRUE | TRUE |
| 9 | 97488951 - 97849500 | | FALSE | TRUE |
| 9 | 97488951 - 97849500 | F - 2.56% | TRUE | TRUE |
| 9 | 140772241 - 141019076 | | TRUE | FALSE |
| 9 | 140772241 - 141019076 | T - 63.16% | FALSE | TRUE |
| 9 | 140772241 - 141019076 | | TRUE | TRUE |
| 9 | 140772241 - 141019076 | | FALSE | TRUE |
| 9 | 140772241 - 141019076 | | TRUE | TRUE |
| Y | 9293012 - 9344217 | | TRUE | FALSE |
| Y | 9293012 - 9344217 | | TRUE | TRUE |
| Y | 9293012 - 9344217 | F - 16.67% | TRUE | TRUE |
| Y | 9293012 - 9344217 | F - 16.67% | TRUE | TRUE |
| Y | 9293012 - 9344217 | | TRUE | TRUE |
| Y | 9293012 - 9344217 | | FALSE | TRUE |
| Y | 9293012 - 9344217 | F - 33.33% | FALSE | TRUE |
| 11 | 113930315 - 114121398 | F - 11.11% | TRUE | TRUE |
| 11 | 113930315 - 114121398 | T - 88.89% | TRUE | TRUE |
| 11 | 113930315 - 114121398 | | TRUE | TRUE |
| 11 | 113930315 - 114121398 | | TRUE | TRUE |
| 11 | 113930315 - 114121398 | F - 11.11% | TRUE | TRUE |
| 11 | 113930315 - 114121398 | | FALSE | TRUE |
| 11 | 113930315 - 114121398 | F - 22.22% | FALSE | TRUE |
| 11 | 10833621 - 10879620 | | TRUE | FALSE |
| 11 | 10833621 - 10879620 | | TRUE | TRUE |
| 11 | 10833621 - 10879620 | | TRUE | TRUE |
| 11 | 10833621 - 10879620 | T - 50.00% | TRUE | TRUE |
| 11 | 10833621 - 10879620 | F - 40.00% | TRUE | TRUE |
| 12 | 117581146 - 117628336 | | TRUE | TRUE |
| 12 | 117581146 - 117628336 | T - 90.00% | TRUE | TRUE |
| 12 | 117581146 - 117628336 | | TRUE | TRUE |
| 21 | 40817781 - 40887433 | T - 91.67% | TRUE | FALSE |
| 21 | 40817781 - 40887433 | T - 91.67% | FALSE | TRUE |
| 21 | 40817781 - 40887433 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 22 | 35653445 - 35691800 | | TRUE | TRUE |
| 22 | 35653445 - 35691800 | F - 30.77% | TRUE | TRUE |
| 22 | 35653445 - 35691800 | | TRUE | TRUE |
| 22 | 35653445 - 35691800 | | TRUE | TRUE |
| 22 | 35653445 - 35691800 | F - 38.46% | TRUE | TRUE |
| 22 | 35653445 - 35691800 | | TRUE | TRUE |
| 1 | 1634169 - 1655966 | | TRUE | FALSE |
| 1 | 1634169 - 1655966 | F - 12.50% | TRUE | TRUE |
| 1 | 1634169 - 1655966 | | TRUE | TRUE |
| 1 | 1634169 - 1655966 | T - 68.75% | TRUE | TRUE |
| 1 | 1634169 - 1655966 | F - 11.36% | TRUE | TRUE |
| 1 | 1634169 - 1655966 | | TRUE | TRUE |
| 1 | 1634169 - 1655966 | | TRUE | TRUE |
| 3 | 10068098 - 10143614 | | FALSE | TRUE |
| 3 | 10068098 - 10143614 | F - 5.88% | TRUE | TRUE |
| 3 | 10068098 - 10143614 | F - 47.06% | TRUE | TRUE |
| 3 | 10068098 - 10143614 | | FALSE | TRUE |
| 3 | 10068098 - 10143614 | F - 35.29% | TRUE | TRUE |
| 3 | 10068098 - 10143614 | | FALSE | TRUE |
| 3 | 49235861 - 49295537 | F - 45.45% | TRUE | TRUE |
| 3 | 49235861 - 49295537 | F - 9.09% | TRUE | TRUE |
| 3 | 49235861 - 49295537 | | TRUE | TRUE |
| 3 | 49235861 - 49295537 | F - 18.18% | TRUE | TRUE |
| 3 | 49235861 - 49295537 | F - 18.18% | FALSE | TRUE |
| 3 | 49235861 - 49295537 | F - 18.18% | TRUE | TRUE |
| 3 | 49235861 - 49295537 | F - 27.27% | TRUE | TRUE |
| 3 | 49235861 - 49295537 | T - 81.82% | TRUE | TRUE |
| 3 | 49235861 - 49295537 | | FALSE | TRUE |
| 3 | 138327448 - 138352218 | | TRUE | TRUE |
| 3 | 138327448 - 138352218 | F - 46.67% | TRUE | TRUE |
| 3 | 138327448 - 138352218 | F - 13.33% | TRUE | FALSE |
| 3 | 138327448 - 138352218 | F - 13.33% | TRUE | FALSE |
| 3 | 138327448 - 138352218 | T - 60.00% | TRUE | TRUE |
| 3 | 138327448 - 138352218 | F - 13.33% | TRUE | TRUE |
| 3 | 138327448 - 138352218 | | TRUE | TRUE |
| 3 | 138327448 - 138352218 | F - 20.00% | TRUE | TRUE |
| 3 | 138327448 - 138352218 | | FALSE | TRUE |
| 3 | 138327448 - 138352218 | F - 6.67% | TRUE | TRUE |
| 3 | 138327448 - 138352218 | | FALSE | TRUE |
| 3 | 138327448 - 138352218 | | FALSE | TRUE |
| 3 | 138327448 - 138352218 | | TRUE | TRUE |
| 3 | 138327448 - 138352218 | | FALSE | TRUE |
| 3 | 49977440 - 50114685 | | TRUE | FALSE |
| 3 | 49977440 - 50114685 | | TRUE | TRUE |
| 3 | 49977440 - 50114685 | F - 3.70% | TRUE | TRUE |
| 3 | 49977440 - 50114685 | | TRUE | TRUE |
| 3 | 49977440 - 50114685 | | TRUE | TRUE |
| 3 | 49977440 - 50114685 | F - 44.44% | TRUE | TRUE |
| 3 | 49977440 - 50114685 | | TRUE | TRUE |
| 3 | 49977440 - 50114685 | | FALSE | TRUE |
| 3 | 49977440 - 50114685 | | FALSE | TRUE |
| 4 | 156680126 - 156728783 | F - 13.33% | FALSE | TRUE |
| 4 | 156680126 - 156728783 | F - 46.67% | TRUE | TRUE |
| 4 | 156680126 - 156728783 | F - 20.00% | TRUE | TRUE |
| 4 | 156680126 - 156728783 | | TRUE | TRUE |
| 4 | 156680126 - 156728783 | T - 86.67% | FALSE | TRUE |
| 4 | 156680126 - 156728783 | | TRUE | TRUE |
| 4 | 156680126 - 156728783 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 4 | 156680126 - 156728783 | | FALSE | TRUE |
| 4 | 2073645 - 2243891 | F - 30.00% | TRUE | TRUE |
| 4 | 2073645 - 2243891 | | TRUE | TRUE |
| 4 | 2073645 - 2243891 | F - 40.00% | TRUE | TRUE |
| 4 | 129786076 - 130014764 | | TRUE | TRUE |
| 4 | 129786076 - 130014764 | | TRUE | TRUE |
| 4 | 129786076 - 130014764 | F - 6.67% | TRUE | TRUE |
| 4 | 129786076 - 130014764 | | TRUE | FALSE |
| 4 | 129786076 - 130014764 | F - 6.67% | TRUE | TRUE |
| 4 | 129786076 - 130014764 | T - 60.00% | TRUE | TRUE |
| 4 | 129786076 - 130014764 | | TRUE | FALSE |
| 4 | 129786076 - 130014764 | | TRUE | TRUE |
| 4 | 129786076 - 130014764 | T - 66.67% | TRUE | TRUE |
| 5 | 70883115 - 70954531 | F - 43.75% | TRUE | TRUE |
| 5 | 70883115 - 70954531 | | TRUE | TRUE |
| 5 | 70883115 - 70954531 | T - 68.75% | TRUE | TRUE |
| 7 | 72023729 - 72298813 | | TRUE | FALSE |
| 7 | 72023729 - 72298813 | | TRUE | FALSE |
| 7 | 72023729 - 72298813 | | FALSE | TRUE |
| 7 | 72023729 - 72298813 | F - 37.50% | FALSE | TRUE |
| 8 | 103216729 - 103251346 | | TRUE | TRUE |
| 8 | 103216729 - 103251346 | | FALSE | TRUE |
| 8 | 103216729 - 103251346 | T - 66.67% | TRUE | TRUE |
| 8 | 103216729 - 103251346 | F - 28.57% | FALSE | TRUE |
| 9 | 35161989 - 35405335 | | TRUE | TRUE |
| 9 | 35161989 - 35405335 | T - 80.00% | TRUE | TRUE |
| 9 | 35161989 - 35405335 | | TRUE | FALSE |
| 9 | 35161989 - 35405335 | | TRUE | TRUE |
| 9 | 35161989 - 35405335 | | TRUE | TRUE |
| 9 | 35161989 - 35405335 | T - 60.00% | TRUE | TRUE |
| 9 | 35161989 - 35405335 | | TRUE | TRUE |
| 9 | 35161989 - 35405335 | | TRUE | FALSE |
| 9 | 35161989 - 35405335 | T - 50.00% | TRUE | FALSE |
| 9 | 35161989 - 35405335 | T - 80.00% | TRUE | TRUE |
| 9 | 35161989 - 35405335 | T - 80.00% | TRUE | TRUE |
| 9 | 35161989 - 35405335 | | TRUE | TRUE |
| 10 | 103330317 - 103369425 | | TRUE | FALSE |
| 10 | 103330317 - 103369425 | | TRUE | TRUE |
| 10 | 103330317 - 103369425 | | TRUE | TRUE |
| 10 | 103330317 - 103369425 | F - 20.00% | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | FALSE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | F - 15.38% | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | TRUE | TRUE |
| 11 | 108093559 - 108239829 | F - 7.69% | TRUE | TRUE |
| 11 | 108093559 - 108239829 | | FALSE | TRUE |
| 12 | 107168373 - 107283094 | | TRUE | TRUE |
| 12 | 107168373 - 107283094 | | TRUE | TRUE |
| 12 | 107168373 - 107283094 | T - 69.23% | TRUE | TRUE |
| 12 | 107168373 - 107283094 | | TRUE | TRUE |
| 12 | 107168373 - 107283094 | | FALSE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 12 | 54422142 - 54424607 | T - 100.00% | TRUE | TRUE |
| 12 | 54422142 - 54424607 | | TRUE | TRUE |
| 14 | 23299092 - 23304246 | T - 70.00% | TRUE | FALSE |
| 14 | 23299092 - 23304246 | T - 50.00% | TRUE | TRUE |
| 14 | 23299092 - 23304246 | F - 5.00% | FALSE | TRUE |
| 14 | 23299092 - 23304246 | | FALSE | TRUE |
| 20 | 1609798 - 1638425 | | TRUE | TRUE |
| 20 | 1609798 - 1638425 | | TRUE | TRUE |
| 20 | 1609798 - 1638425 | | TRUE | FALSE |
| 20 | 1609798 - 1638425 | T - 100.00% | TRUE | TRUE |
| 20 | 1609798 - 1638425 | | TRUE | TRUE |
| 20 | 1609798 - 1638425 | T - 55.56% | FALSE | TRUE |
| 21 | 35014706 - 35272165 | | TRUE | FALSE |
| 21 | 35014706 - 35272165 | F - 26.56% | TRUE | FALSE |
| 21 | 35014706 - 35272165 | | TRUE | TRUE |
| 21 | 35014706 - 35272165 | F - 26.56% | TRUE | TRUE |
| 21 | 35014706 - 35272165 | F - 3.13% | TRUE | TRUE |
| 22 | 44319619 - 44343448 | | TRUE | FALSE |
| 22 | 44319619 - 44343448 | F - 20.00% | TRUE | TRUE |
| 22 | 44319619 - 44343448 | T - 60.00% | TRUE | TRUE |
| 22 | 44319619 - 44343448 | F - 20.00% | TRUE | TRUE |
| 22 | 44319619 - 44343448 | F - 20.00% | TRUE | TRUE |
| 22 | 44319619 - 44343448 | | TRUE | TRUE |
| 6_qbl_hap6 | 4450268 - 4472060 | F - 5.56% | TRUE | TRUE |
| 6_qbl_hap6 | 4450268 - 4472060 | | TRUE | TRUE |
| 6_qbl_hap6 | 4450268 - 4472060 | | TRUE | TRUE |
| 6_qbl_hap6 | 4450268 - 4472060 | | TRUE | TRUE |
| 6_qbl_hap6 | 4450268 - 4472060 | | FALSE | TRUE |
| 2 | 242014096 - 242041747 | F - 10.34% | TRUE | TRUE |
| 2 | 242014096 - 242041747 | F - 48.28% | TRUE | TRUE |
| 2 | 242014096 - 242041747 | | TRUE | FALSE |
| 2 | 242014096 - 242041747 | F - 44.83% | TRUE | TRUE |
| 3 | 196662273 - 196669468 | F - 10.00% | TRUE | FALSE |
| 3 | 196662273 - 196669468 | | TRUE | TRUE |
| 3 | 196662273 - 196669468 | F - 10.00% | TRUE | FALSE |
| 3 | 196662273 - 196669468 | | FALSE | TRUE |
| 3 | 49044495 - 49053386 | | TRUE | TRUE |
| 3 | 49044495 - 49053386 | | TRUE | TRUE |
| 3 | 49044495 - 49053386 | | TRUE | FALSE |
| 3 | 49044495 - 49053386 | F - 14.81% | TRUE | TRUE |
| 9 | 134691579 - 134696375 | T - 100.00% | TRUE | FALSE |
| 9 | 134691579 - 134696375 | | FALSE | TRUE |
| 12 | 6898638 - 6929976 | F - 7.69% | TRUE | TRUE |
| 12 | 6898638 - 6929976 | | TRUE | TRUE |
| 12 | 6898638 - 6929976 | F - 23.08% | FALSE | TRUE |
| 12 | 6898638 - 6929976 | | TRUE | TRUE |
| 12 | 6898638 - 6929976 | F - 7.69% | TRUE | TRUE |
| 12 | 6898638 - 6929976 | T - 84.62% | TRUE | TRUE |
| 12 | 6898638 - 6929976 | | FALSE | TRUE |
| 12 | 96394606 - 96437298 | F - 10.00% | TRUE | TRUE |
| 12 | 96394606 - 96437298 | | TRUE | TRUE |
| 12 | 96394606 - 96437298 | F - 20.00% | FALSE | TRUE |
| 12 | 96394606 - 96437298 | | TRUE | TRUE |
| 12 | 96394606 - 96437298 | F - 20.00% | FALSE | TRUE |
| 15 | 93160673 - 93353028 | F - 16.67% | TRUE | FALSE |
| 15 | 93160673 - 93353028 | | TRUE | TRUE |
| 15 | 93160673 - 93353028 | | FALSE | TRUE |
| 15 | 93160673 - 93353028 | T - 100.00% | TRUE | TRUE |

| | | | | |
|-------------|---------------------|-------------|-------|-------|
| 16 | 69796209 - 69975644 | F - 7.14% | TRUE | TRUE |
| 16 | 69796209 - 69975644 | F - 7.14% | TRUE | TRUE |
| 16 | 69796209 - 69975644 | F - 14.29% | FALSE | TRUE |
| 16 | 69796209 - 69975644 | | FALSE | TRUE |
| 16 | 69796209 - 69975644 | | TRUE | TRUE |
| 16 | 69796209 - 69975644 | | TRUE | TRUE |
| 16 | 69796209 - 69975644 | T - 92.86% | TRUE | TRUE |
| 17 | 41952725 - 41987068 | | TRUE | TRUE |
| 17 | 41952725 - 41987068 | F - 15.38% | TRUE | TRUE |
| 17 | 41952725 - 41987068 | F - 11.54% | TRUE | TRUE |
| 17 | 41952725 - 41987068 | F - 11.54% | FALSE | TRUE |
| 17 | 41952725 - 41987068 | T - 88.46% | TRUE | TRUE |
| 17 | 41952725 - 41987068 | | FALSE | TRUE |
| 18 | 2571510 - 2616634 | | TRUE | FALSE |
| 18 | 2571510 - 2616634 | T - 100.00% | TRUE | TRUE |
| 18 | 2571510 - 2616634 | T - 100.00% | FALSE | TRUE |
| 18 | 2571510 - 2616634 | T - 100.00% | FALSE | TRUE |
| 18 | 2571510 - 2616634 | | FALSE | TRUE |
| 22 | 31677579 - 31688524 | | TRUE | TRUE |
| 22 | 31677579 - 31688524 | T - 53.33% | TRUE | FALSE |
| 22 | 31677579 - 31688524 | | TRUE | TRUE |
| 6_ssto_hap7 | 3038543 - 3063441 | F - 35.00% | TRUE | TRUE |
| 6_ssto_hap7 | 3038543 - 3063441 | | TRUE | TRUE |
| 6_ssto_hap7 | 3038543 - 3063441 | | TRUE | FALSE |
| 6_ssto_hap7 | 3038543 - 3063441 | | TRUE | TRUE |
| 6_ssto_hap7 | 3038543 - 3063441 | | TRUE | TRUE |
| 6_ssto_hap7 | 3038543 - 3063441 | | FALSE | TRUE |
| 6_ssto_hap7 | 3038543 - 3063441 | | FALSE | TRUE |
| 6_ssto_hap7 | 1186740 - 1190195 | | TRUE | TRUE |
| 6_ssto_hap7 | 1186740 - 1190195 | T - 50.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1186740 - 1190195 | | FALSE | TRUE |
| 6_ssto_hap7 | 1186740 - 1190195 | T - 50.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1186740 - 1190195 | T - 100.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1132296 - 1136468 | F - 7.14% | TRUE | FALSE |
| 6_ssto_hap7 | 1132296 - 1136468 | | TRUE | TRUE |
| 6_ssto_hap7 | 1132296 - 1136468 | T - 57.14% | TRUE | TRUE |
| 2 | 37477645 - 37551951 | | TRUE | FALSE |
| 2 | 37477645 - 37551951 | F - 23.08% | TRUE | TRUE |
| 2 | 37477645 - 37551951 | | TRUE | TRUE |
| 3 | 46871032 - 46875585 | | TRUE | FALSE |
| 3 | 46871032 - 46875585 | F - 33.33% | TRUE | TRUE |
| 3 | 46871032 - 46875585 | F - 33.33% | TRUE | TRUE |
| 8 | 98881068 - 99048946 | | TRUE | TRUE |
| 8 | 98881068 - 99048946 | T - 61.54% | TRUE | TRUE |
| 8 | 98881068 - 99048946 | T - 57.69% | TRUE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | F - 38.46% | TRUE | TRUE |
| 8 | 98881068 - 99048946 | T - 57.69% | TRUE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | T - 53.85% | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 8 | 98881068 - 99048946 | | FALSE | TRUE |
| 9 | 90340434 - 90346384 | F - 35.71% | TRUE | FALSE |
| 9 | 90340434 - 90346384 | F - 7.14% | TRUE | TRUE |
| 9 | 90340434 - 90346384 | | FALSE | TRUE |
| 9 | 90340434 - 90346384 | T - 71.43% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 9 | 90340434 - 90346384 | | TRUE | TRUE |
| | 9 | 90340434 - 90346384 | | FALSE | TRUE |
| X | | 13789062 - 13956831 | | TRUE | TRUE |
| X | | 13789062 - 13956831 | T - 90.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 5.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 5.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 5.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 15.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 15.00% | TRUE | FALSE |
| X | | 13789062 - 13956831 | F - 10.00% | FALSE | TRUE |
| X | | 13789062 - 13956831 | F - 10.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 10.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | | TRUE | TRUE |
| X | | 13789062 - 13956831 | T - 55.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | F - 5.00% | TRUE | TRUE |
| X | | 13789062 - 13956831 | | FALSE | TRUE |
| X | | 13789062 - 13956831 | F - 15.00% | FALSE | TRUE |
| X | | 13789062 - 13956831 | | FALSE | TRUE |
| | 15 | 83657253 - 83680393 | T - 100.00% | TRUE | TRUE |
| | 15 | 83657253 - 83680393 | F - 18.75% | TRUE | FALSE |
| | 15 | 83657253 - 83680393 | F - 6.25% | TRUE | TRUE |
| | 15 | 83657253 - 83680393 | | TRUE | TRUE |
| | 17 | 29718642 - 29865236 | | TRUE | TRUE |
| | 17 | 29718642 - 29865236 | F - 20.00% | TRUE | FALSE |
| | 17 | 29718642 - 29865236 | T - 80.00% | FALSE | TRUE |
| | 20 | 3648612 - 3662893 | T - 64.29% | TRUE | TRUE |
| | 20 | 3648612 - 3662893 | | TRUE | FALSE |
| | 20 | 3648612 - 3662893 | F - 14.29% | FALSE | TRUE |
| | 22 | 40766595 - 40806293 | F - 45.00% | TRUE | TRUE |
| | 22 | 40766595 - 40806293 | | TRUE | TRUE |
| | 1 | 11126675 - 11159943 | F - 11.76% | TRUE | TRUE |
| | 1 | 11126675 - 11159943 | F - 5.88% | TRUE | TRUE |
| | 1 | 11126675 - 11159943 | | FALSE | TRUE |
| | 1 | 11126675 - 11159943 | | TRUE | TRUE |
| | 1 | 20301924 - 20306932 | | TRUE | FALSE |
| | 1 | 20301924 - 20306932 | | TRUE | TRUE |
| | 1 | 20301924 - 20306932 | T - 91.67% | FALSE | TRUE |
| | 1 | 95699711 - 95712781 | | TRUE | FALSE |
| | 1 | 95699711 - 95712781 | T - 68.75% | TRUE | TRUE |
| | 2 | 131369054 - 131415664 | | TRUE | TRUE |
| | 2 | 131369054 - 131415664 | | FALSE | TRUE |
| | 2 | 131369054 - 131415664 | F - 33.33% | TRUE | TRUE |
| | 3 | 123616152 - 123680564 | | TRUE | TRUE |
| | 3 | 123616152 - 123680564 | | TRUE | TRUE |
| | 3 | 123616152 - 123680564 | F - 3.45% | TRUE | TRUE |
| | 3 | 123616152 - 123680564 | F - 6.90% | TRUE | TRUE |
| | 3 | 123616152 - 123680564 | F - 6.90% | TRUE | TRUE |
| | 3 | 123616152 - 123680564 | F - 3.45% | TRUE | TRUE |
| | 4 | 68566996 - 68946670 | F - 36.36% | TRUE | FALSE |
| | 4 | 68566996 - 68946670 | T - 54.55% | TRUE | TRUE |
| | 4 | 68566996 - 68946670 | F - 45.45% | TRUE | TRUE |
| | 4 | 68566996 - 68946670 | | TRUE | TRUE |
| | 4 | 68566996 - 68946670 | | TRUE | TRUE |
| | 5 | 612387 - 667283 | | TRUE | TRUE |
| | 5 | 612387 - 667283 | | TRUE | FALSE |
| | 5 | 612387 - 667283 | | FALSE | TRUE |
| | 5 | 612387 - 667283 | T - 62.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 6 | 73918593 - 74020088 | | TRUE | FALSE |
| 6 | 73918593 - 74020088 | | TRUE | FALSE |
| 6 | 73918593 - 74020088 | | TRUE | FALSE |
| 6 | 73918593 - 74020088 | | TRUE | FALSE |
| 6 | 73918593 - 74020088 | | FALSE | TRUE |
| 6 | 73918593 - 74020088 | F - 33.33% | TRUE | TRUE |
| 7 | 27145809 - 27192217 | | TRUE | TRUE |
| 7 | 27145809 - 27192217 | | FALSE | TRUE |
| 7 | 27145809 - 27192217 | F - 33.33% | TRUE | TRUE |
| 7 | 27145809 - 27192217 | F - 25.00% | TRUE | TRUE |
| 7 | 27145809 - 27192217 | F - 33.33% | TRUE | TRUE |
| 11 | 61520121 - 61555990 | | TRUE | TRUE |
| 11 | 61520121 - 61555990 | | TRUE | TRUE |
| 11 | 61520121 - 61555990 | T - 75.00% | FALSE | TRUE |
| 11 | 61520121 - 61555990 | | TRUE | TRUE |
| 11 | 61520121 - 61555990 | | TRUE | TRUE |
| 12 | 113344582 - 113369991 | | TRUE | FALSE |
| 12 | 113344582 - 113369991 | | TRUE | TRUE |
| 12 | 113344582 - 113369991 | F - 17.65% | TRUE | TRUE |
| 14 | 75408533 - 75422487 | | TRUE | FALSE |
| 14 | 75408533 - 75422487 | | TRUE | TRUE |
| 14 | 75408533 - 75422487 | T - 75.00% | TRUE | TRUE |
| 14 | 75408533 - 75422487 | T - 91.67% | FALSE | TRUE |
| 14 | 75408533 - 75422487 | | FALSE | TRUE |
| 14 | 75408533 - 75422487 | | FALSE | TRUE |
| 1 | 201951500 - 201975275 | | TRUE | TRUE |
| 1 | 201951500 - 201975275 | F - 23.53% | TRUE | TRUE |
| 1 | 201951500 - 201975275 | F - 5.88% | TRUE | TRUE |
| 1 | 201951500 - 201975275 | F - 5.88% | TRUE | TRUE |
| 2 | 46843555 - 46852881 | F - 20.00% | TRUE | TRUE |
| 2 | 46843555 - 46852881 | T - 100.00% | TRUE | TRUE |
| 2 | 46843555 - 46852881 | F - 20.00% | TRUE | TRUE |
| 2 | 46843555 - 46852881 | T - 80.00% | TRUE | TRUE |
| 2 | 46843555 - 46852881 | | TRUE | TRUE |
| 2 | 173940163 - 174132738 | | TRUE | TRUE |
| 2 | 173940163 - 174132738 | F - 26.67% | TRUE | TRUE |
| 2 | 173940163 - 174132738 | | TRUE | TRUE |
| 2 | 64319786 - 64371605 | | TRUE | FALSE |
| 2 | 64319786 - 64371605 | F - 18.18% | FALSE | TRUE |
| 4 | 492989 - 533985 | | TRUE | TRUE |
| 4 | 492989 - 533985 | F - 44.44% | TRUE | TRUE |
| 4 | 492989 - 533985 | | TRUE | TRUE |
| 4 | 492989 - 533985 | | TRUE | TRUE |
| 4 | 492989 - 533985 | | TRUE | TRUE |
| 4 | 492989 - 533985 | F - 44.44% | TRUE | TRUE |
| 4 | 492989 - 533985 | F - 47.22% | TRUE | TRUE |
| 4 | 492989 - 533985 | F - 11.11% | FALSE | TRUE |
| 4 | 77356253 - 77704406 | | TRUE | TRUE |
| 4 | 77356253 - 77704406 | F - 25.00% | TRUE | TRUE |
| 4 | 77356253 - 77704406 | F - 6.25% | TRUE | TRUE |
| 4 | 77356253 - 77704406 | F - 6.25% | TRUE | TRUE |
| 4 | 77356253 - 77704406 | F - 18.75% | TRUE | TRUE |
| 4 | 77356253 - 77704406 | | TRUE | TRUE |
| 5 | 74632154 - 74657929 | | TRUE | TRUE |
| 5 | 74632154 - 74657929 | | FALSE | TRUE |
| 5 | 74632154 - 74657929 | T - 52.38% | TRUE | TRUE |
| 5 | 170814120 - 170838141 | | TRUE | TRUE |
| 5 | 170814120 - 170838141 | F - 3.70% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 6 | 18368779 - 18469105 | F - 25.00% | TRUE | TRUE |
| | 6 | 18368779 - 18469105 | F - 25.00% | TRUE | TRUE |
| | 6 | 18368779 - 18469105 | | TRUE | TRUE |
| | 8 | 60031599 - 60033905 | F - 33.33% | TRUE | TRUE |
| | 8 | 60031599 - 60033905 | T - 66.67% | TRUE | TRUE |
| | 8 | 60031599 - 60033905 | | TRUE | TRUE |
| X | | 16964814 - 17171403 | | TRUE | FALSE |
| X | | 16964814 - 17171403 | T - 50.00% | TRUE | TRUE |
| X | | 16964814 - 17171403 | | TRUE | TRUE |
| X | | 16964814 - 17171403 | F - 20.00% | TRUE | FALSE |
| X | | 16964814 - 17171403 | T - 50.00% | TRUE | FALSE |
| X | | 16964814 - 17171403 | T - 80.00% | TRUE | TRUE |
| X | | 16964814 - 17171403 | F - 10.00% | TRUE | TRUE |
| X | | 16964814 - 17171403 | T - 50.00% | TRUE | TRUE |
| X | | 16964814 - 17171403 | | TRUE | TRUE |
| X | | 16964814 - 17171403 | T - 70.00% | FALSE | TRUE |
| X | | 16964814 - 17171403 | T - 50.00% | FALSE | TRUE |
| X | | 16964814 - 17171403 | T - 80.00% | TRUE | TRUE |
| X | | 16964814 - 17171403 | T - 60.00% | TRUE | TRUE |
| X | | 16964814 - 17171403 | F - 40.00% | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | | TRUE | FALSE |
| | 10 | 99624757 - 99790585 | T - 80.00% | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | T - 80.00% | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | F - 40.00% | TRUE | TRUE |
| | 10 | 99624757 - 99790585 | T - 80.00% | FALSE | TRUE |
| | 10 | 99624757 - 99790585 | | FALSE | TRUE |
| | 11 | 25756317 - 25803305 | T - 66.67% | TRUE | TRUE |
| | 11 | 25756317 - 25803305 | | TRUE | FALSE |
| | 11 | 25756317 - 25803305 | T - 66.67% | TRUE | TRUE |
| | 14 | 105886157 - 105937066 | | TRUE | FALSE |
| | 14 | 105886157 - 105937066 | F - 8.33% | TRUE | TRUE |
| | 14 | 105886157 - 105937066 | F - 4.17% | TRUE | TRUE |
| | 14 | 105886157 - 105937066 | | TRUE | TRUE |
| | 14 | 105886157 - 105937066 | | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | F - 28.57% | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | F - 4.76% | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | F - 9.52% | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | F - 4.76% | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | T - 57.14% | TRUE | TRUE |
| | 17 | 7093209 - 7123369 | | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | T - 53.85% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | T - 92.31% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | F - 7.69% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | F - 15.38% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | F - 7.69% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | F - 15.38% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | F - 23.08% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | F - 7.69% | TRUE | TRUE |

| | | | | | |
|---|----|---------------------|-------------|-------|-------|
| | 17 | 9813926 - 10101868 | F - 15.38% | FALSE | TRUE |
| | 17 | 9813926 - 10101868 | | FALSE | TRUE |
| | 17 | 9813926 - 10101868 | F - 7.69% | FALSE | TRUE |
| | 17 | 9813926 - 10101868 | F - 7.69% | TRUE | TRUE |
| | 17 | 9813926 - 10101868 | | FALSE | TRUE |
| | 18 | 214520 - 268059 | T - 80.00% | TRUE | TRUE |
| | 18 | 214520 - 268059 | | FALSE | TRUE |
| | 18 | 214520 - 268059 | | FALSE | TRUE |
| | 18 | 214520 - 268059 | | TRUE | TRUE |
| | 19 | 57986988 - 58006048 | | TRUE | TRUE |
| | 19 | 57986988 - 58006048 | F - 46.15% | TRUE | TRUE |
| | 19 | 40315990 - 40324841 | | TRUE | TRUE |
| | 19 | 40315990 - 40324841 | | FALSE | TRUE |
| | 19 | 40315990 - 40324841 | | TRUE | TRUE |
| | 19 | 40315990 - 40324841 | T - 66.67% | TRUE | TRUE |
| | 19 | 40315990 - 40324841 | | FALSE | TRUE |
| | 6 | 31783241 - 31785723 | | TRUE | TRUE |
| | 6 | 31783241 - 31785723 | F - 30.00% | TRUE | TRUE |
| | 7 | 23145353 - 23215040 | F - 36.67% | TRUE | TRUE |
| | 7 | 23145353 - 23215040 | F - 10.00% | TRUE | TRUE |
| | 7 | 23145353 - 23215040 | | TRUE | TRUE |
| | 7 | 23145353 - 23215040 | | TRUE | TRUE |
| | 7 | 23145353 - 23215040 | T - 50.00% | FALSE | TRUE |
| | 9 | 4792834 - 4885917 | T - 50.00% | TRUE | TRUE |
| | 9 | 4792834 - 4885917 | | TRUE | FALSE |
| | 9 | 4792834 - 4885917 | | TRUE | TRUE |
| X | | 21958691 - 22025798 | | TRUE | TRUE |
| X | | 21958691 - 22025798 | F - 33.33% | FALSE | TRUE |
| X | | 21958691 - 22025798 | F - 11.11% | TRUE | TRUE |
| X | | 21958691 - 22025798 | | TRUE | TRUE |
| | 10 | 14560556 - 14816896 | | TRUE | FALSE |
| | 10 | 14560556 - 14816896 | T - 58.82% | TRUE | TRUE |
| | 10 | 14560556 - 14816896 | | FALSE | TRUE |
| | 10 | 99218081 - 99258551 | | TRUE | TRUE |
| | 10 | 99218081 - 99258551 | | TRUE | TRUE |
| | 10 | 99218081 - 99258551 | T - 54.84% | FALSE | TRUE |
| | 10 | 99218081 - 99258551 | | TRUE | TRUE |
| | 11 | 64570986 - 64578766 | F - 23.08% | TRUE | FALSE |
| | 11 | 64570986 - 64578766 | | TRUE | TRUE |
| | 17 | 48638429 - 48704835 | | TRUE | FALSE |
| | 17 | 48638429 - 48704835 | | TRUE | TRUE |
| | 17 | 48638429 - 48704835 | | TRUE | FALSE |
| | 17 | 48638429 - 48704835 | T - 97.89% | TRUE | TRUE |
| | 17 | 48638429 - 48704835 | T - 100.00% | TRUE | TRUE |
| | 17 | 48638429 - 48704835 | | FALSE | TRUE |
| | 17 | 48638429 - 48704835 | | FALSE | TRUE |
| | 17 | 48638429 - 48704835 | | FALSE | TRUE |
| | 18 | 32556892 - 32725381 | | TRUE | TRUE |
| | 18 | 32556892 - 32725381 | F - 42.86% | TRUE | TRUE |
| | 18 | 32556892 - 32725381 | F - 14.29% | TRUE | TRUE |
| | 18 | 32556892 - 32725381 | | TRUE | TRUE |
| | 18 | 32556892 - 32725381 | F - 14.29% | FALSE | TRUE |
| | 20 | 18269121 - 18297640 | | TRUE | FALSE |
| | 20 | 18269121 - 18297640 | | TRUE | TRUE |
| | 20 | 18269121 - 18297640 | | FALSE | TRUE |
| | 20 | 18269121 - 18297640 | F - 5.26% | FALSE | TRUE |
| | 22 | 38864067 - 38879452 | | TRUE | TRUE |
| | 22 | 38864067 - 38879452 | F - 14.29% | FALSE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 3652548 - 3663937 | F - 40.00% | TRUE | TRUE |
| 1 | 3652548 - 3663937 | F - 30.00% | TRUE | TRUE |
| 1 | 3652548 - 3663937 | | TRUE | TRUE |
| 1 | 3652548 - 3663937 | | TRUE | TRUE |
| 1 | 3652548 - 3663937 | F - 20.00% | TRUE | TRUE |
| 1 | 35447127 - 35497569 | F - 39.13% | TRUE | TRUE |
| 1 | 35447127 - 35497569 | F - 43.48% | TRUE | TRUE |
| 1 | 35447127 - 35497569 | F - 34.78% | TRUE | TRUE |
| 1 | 35447127 - 35497569 | | FALSE | TRUE |
| 1 | 35447127 - 35497569 | | TRUE | TRUE |
| 1 | 35447127 - 35497569 | | FALSE | TRUE |
| 2 | 220299568 - 220363009 | F - 3.33% | TRUE | TRUE |
| 2 | 220299568 - 220363009 | | TRUE | TRUE |
| 2 | 220299568 - 220363009 | | TRUE | TRUE |
| 2 | 220299568 - 220363009 | | TRUE | TRUE |
| 2 | 220299568 - 220363009 | | FALSE | TRUE |
| 2 | 3579403 - 3584463 | | TRUE | TRUE |
| 2 | 3579403 - 3584463 | F - 20.00% | TRUE | TRUE |
| 2 | 3579403 - 3584463 | F - 20.00% | TRUE | TRUE |
| 2 | 3579403 - 3584463 | F - 40.00% | TRUE | TRUE |
| 3 | 10206549 - 10285427 | | TRUE | TRUE |
| 3 | 10206549 - 10285427 | | TRUE | TRUE |
| 3 | 10206549 - 10285427 | | FALSE | TRUE |
| 3 | 10206549 - 10285427 | T - 100.00% | TRUE | TRUE |
| 3 | 184529931 - 184770402 | F - 5.88% | TRUE | TRUE |
| 3 | 184529931 - 184770402 | | TRUE | FALSE |
| 3 | 184529931 - 184770402 | | TRUE | TRUE |
| 3 | 184529931 - 184770402 | | TRUE | TRUE |
| 3 | 184529931 - 184770402 | F - 29.41% | TRUE | TRUE |
| 3 | 184529931 - 184770402 | | TRUE | TRUE |
| 3 | 190023490 - 190040264 | T - 60.00% | TRUE | TRUE |
| 3 | 190023490 - 190040264 | | TRUE | TRUE |
| 3 | 190023490 - 190040264 | F - 40.00% | TRUE | TRUE |
| 3 | 190023490 - 190040264 | T - 80.00% | TRUE | TRUE |
| 3 | 190023490 - 190040264 | F - 20.00% | TRUE | TRUE |
| 8 | 22462145 - 22479027 | F - 5.88% | TRUE | TRUE |
| 8 | 22462145 - 22479027 | | FALSE | TRUE |
| 8 | 41119476 - 41167016 | F - 20.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | T - 60.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | T - 80.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | T - 100.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | T - 80.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | T - 100.00% | FALSE | TRUE |
| 8 | 41119476 - 41167016 | | FALSE | TRUE |
| 8 | 41119476 - 41167016 | T - 80.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | T - 100.00% | TRUE | TRUE |
| 8 | 41119476 - 41167016 | | FALSE | TRUE |
| 9 | 70432000 - 70500063 | | TRUE | TRUE |
| 9 | 70432000 - 70500063 | | TRUE | TRUE |
| 9 | 70432000 - 70500063 | F - 2.13% | FALSE | TRUE |
| 9 | 70432000 - 70500063 | F - 4.26% | TRUE | TRUE |
| 9 | 70432000 - 70500063 | F - 6.38% | TRUE | TRUE |
| 9 | 70432000 - 70500063 | F - 2.13% | TRUE | TRUE |
| 9 | 70432000 - 70500063 | F - 6.38% | TRUE | TRUE |
| 9 | 70432000 - 70500063 | | TRUE | TRUE |
| 9 | 70432000 - 70500063 | | TRUE | TRUE |
| 9 | 70432000 - 70500063 | | TRUE | TRUE |
| 9 | 70432000 - 70500063 | F - 2.13% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 9 | 70432000 - 70500063 | F - 10.64% | TRUE | TRUE |
| | 9 | 70432000 - 70500063 | | FALSE | TRUE |
| X | | 70338406 - 70362304 | | TRUE | TRUE |
| X | | 70338406 - 70362304 | | TRUE | TRUE |
| X | | 70338406 - 70362304 | F - 5.00% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | T - 58.82% | TRUE | FALSE |
| Y | | 16634488 - 16957530 | F - 5.88% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | F - 17.65% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | T - 76.47% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | T - 76.47% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | F - 11.76% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | | TRUE | FALSE |
| Y | | 16634488 - 16957530 | F - 29.41% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | F - 17.65% | FALSE | TRUE |
| Y | | 16634488 - 16957530 | T - 52.94% | TRUE | FALSE |
| Y | | 16634488 - 16957530 | F - 17.65% | FALSE | TRUE |
| Y | | 16634488 - 16957530 | F - 5.88% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | F - 11.76% | FALSE | TRUE |
| Y | | 16634488 - 16957530 | F - 5.88% | TRUE | FALSE |
| Y | | 16634488 - 16957530 | F - 11.76% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | | TRUE | TRUE |
| Y | | 16634488 - 16957530 | | FALSE | TRUE |
| Y | | 16634488 - 16957530 | F - 11.76% | TRUE | TRUE |
| Y | | 16634488 - 16957530 | | FALSE | TRUE |
| | 10 | 70661034 - 70706603 | F - 11.11% | TRUE | TRUE |
| | 10 | 70661034 - 70706603 | F - 22.22% | TRUE | FALSE |
| | 10 | 70661034 - 70706603 | | TRUE | TRUE |
| | 10 | 70661034 - 70706603 | F - 44.44% | FALSE | TRUE |
| | 10 | 114133776 - 114188138 | F - 6.25% | TRUE | TRUE |
| | 10 | 114133776 - 114188138 | | TRUE | TRUE |
| | 10 | 114133776 - 114188138 | F - 12.50% | TRUE | TRUE |
| | 10 | 114133776 - 114188138 | T - 75.00% | TRUE | TRUE |
| | 10 | 114133776 - 114188138 | T - 62.50% | TRUE | TRUE |
| | 10 | 114133776 - 114188138 | | FALSE | TRUE |
| | 10 | 114710009 - 114927437 | | TRUE | TRUE |
| | 10 | 114710009 - 114927437 | F - 1.89% | TRUE | TRUE |
| | 10 | 114710009 - 114927437 | F - 5.66% | TRUE | TRUE |
| | 10 | 114710009 - 114927437 | | TRUE | TRUE |
| | 10 | 114710009 - 114927437 | | TRUE | TRUE |
| | 11 | 118004092 - 118023630 | T - 50.00% | TRUE | FALSE |
| | 11 | 118004092 - 118023630 | | TRUE | TRUE |
| | 11 | 118004092 - 118023630 | F - 37.50% | TRUE | TRUE |
| | 11 | 118004092 - 118023630 | | FALSE | TRUE |
| | 12 | 57853918 - 57866047 | T - 84.62% | TRUE | TRUE |
| | 12 | 57853918 - 57866047 | | TRUE | TRUE |
| | 12 | 57853918 - 57866047 | | TRUE | TRUE |
| | 12 | 133200345 - 133413387 | | TRUE | TRUE |
| | 12 | 133200345 - 133413387 | F - 25.00% | TRUE | TRUE |
| | 12 | 133200345 - 133413387 | | TRUE | TRUE |
| | 12 | 133200345 - 133413387 | | FALSE | TRUE |
| | 12 | 133200345 - 133413387 | | FALSE | TRUE |
| | 12 | 133200345 - 133413387 | | TRUE | TRUE |
| | 12 | 133200345 - 133413387 | | FALSE | TRUE |
| | 13 | 99852679 - 100038753 | | TRUE | TRUE |
| | 13 | 99852679 - 100038753 | F - 5.00% | TRUE | TRUE |
| | 15 | 22702285 - 22715728 | | TRUE | FALSE |
| | 15 | 22702285 - 22715728 | | TRUE | TRUE |
| | 15 | 22702285 - 22715728 | F - 16.67% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 15 | 22702285 - 22715728 | T - 66.67% | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 40834632 - 40852011 | T - 75.00% | TRUE | TRUE |
| 17 | 40834632 - 40852011 | T - 100.00% | TRUE | TRUE |
| 17 | 40834632 - 40852011 | T - 100.00% | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | FALSE | TRUE |
| 17 | 40834632 - 40852011 | T - 100.00% | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | FALSE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 40834632 - 40852011 | T - 100.00% | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 40834632 - 40852011 | | TRUE | TRUE |
| 17 | 15879874 - 15903031 | | TRUE | FALSE |
| 17 | 15879874 - 15903031 | F - 42.11% | TRUE | FALSE |
| 17 | 15879874 - 15903031 | F - 42.11% | TRUE | TRUE |
| 18 | 670324 - 712676 | | TRUE | TRUE |
| 18 | 670324 - 712676 | | TRUE | TRUE |
| 18 | 670324 - 712676 | T - 75.00% | TRUE | TRUE |
| 18 | 670324 - 712676 | | TRUE | TRUE |
| 19 | 7069471 - 7087979 | | TRUE | FALSE |
| 19 | 7069471 - 7087979 | T - 100.00% | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | F - 9.09% | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | T - 90.91% | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | FALSE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | F - 36.36% | TRUE | TRUE |
| 19 | 1782074 - 1812275 | T - 100.00% | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | T - 100.00% | FALSE | TRUE |
| 19 | 1782074 - 1812275 | | FALSE | TRUE |
| 19 | 1782074 - 1812275 | | TRUE | TRUE |
| 19 | 1782074 - 1812275 | T - 100.00% | TRUE | TRUE |
| 19 | 1782074 - 1812275 | | FALSE | TRUE |
| 20 | 43160426 - 43252888 | T - 53.85% | TRUE | TRUE |
| 20 | 43160426 - 43252888 | F - 7.69% | FALSE | TRUE |
| 20 | 43160426 - 43252888 | F - 7.69% | FALSE | TRUE |
| 20 | 43160426 - 43252888 | F - 7.69% | TRUE | TRUE |
| 20 | 43160426 - 43252888 | | TRUE | TRUE |
| 20 | 43160426 - 43252888 | F - 15.38% | TRUE | TRUE |
| 20 | 43160426 - 43252888 | | TRUE | TRUE |
| 20 | 43160426 - 43252888 | T - 76.92% | TRUE | TRUE |
| 20 | 43160426 - 43252888 | | TRUE | TRUE |
| 21 | 33031935 - 33041244 | | TRUE | TRUE |
| 21 | 33031935 - 33041244 | T - 57.14% | TRUE | TRUE |
| 21 | 33031935 - 33041244 | F - 14.29% | TRUE | TRUE |
| 1 | 24382525 - 24438675 | T - 58.33% | TRUE | TRUE |
| 1 | 24382525 - 24438675 | | TRUE | TRUE |
| 1 | 24382525 - 24438675 | | FALSE | TRUE |
| 1 | 24382525 - 24438675 | | FALSE | TRUE |
| 1 | 24382525 - 24438675 | | FALSE | TRUE |
| 3 | 37027357 - 37034795 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 37027357 - 37034795 | T - 50.00% | TRUE | TRUE |
| 5 | 82767284 - 82878122 | | TRUE | TRUE |
| 5 | 82767284 - 82878122 | | TRUE | TRUE |
| 5 | 82767284 - 82878122 | F - 27.78% | TRUE | TRUE |
| 5 | 82767284 - 82878122 | | TRUE | TRUE |
| 5 | 82767284 - 82878122 | | TRUE | TRUE |
| 5 | 177664617 - 178017556 | | TRUE | FALSE |
| 5 | 177664617 - 178017556 | | TRUE | FALSE |
| 5 | 177664617 - 178017556 | | TRUE | FALSE |
| 5 | 177664617 - 178017556 | | FALSE | TRUE |
| 5 | 177664617 - 178017556 | T - 75.00% | FALSE | TRUE |
| 7 | 22459063 - 22672544 | | TRUE | TRUE |
| 7 | 22459063 - 22672544 | F - 12.50% | TRUE | TRUE |
| 7 | 22459063 - 22672544 | | FALSE | TRUE |
| 9 | 72808914 - 72873790 | | TRUE | TRUE |
| 9 | 72808914 - 72873790 | | TRUE | TRUE |
| 9 | 72808914 - 72873790 | T - 50.00% | TRUE | TRUE |
| 11 | 65029233 - 65066156 | | TRUE | TRUE |
| 11 | 65029233 - 65066156 | | TRUE | TRUE |
| 11 | 65029233 - 65066156 | T - 71.43% | TRUE | TRUE |
| 11 | 9041047 - 9159661 | | TRUE | TRUE |
| 11 | 9041047 - 9159661 | | TRUE | TRUE |
| 11 | 9041047 - 9159661 | F - 7.69% | TRUE | FALSE |
| 11 | 9041047 - 9159661 | F - 7.69% | TRUE | TRUE |
| 11 | 9041047 - 9159661 | T - 53.85% | FALSE | TRUE |
| 11 | 9041047 - 9159661 | | TRUE | TRUE |
| 11 | 9041047 - 9159661 | | FALSE | TRUE |
| 14 | 65453438 - 65529373 | | TRUE | TRUE |
| 14 | 65453438 - 65529373 | F - 10.00% | TRUE | FALSE |
| 14 | 65453438 - 65529373 | | TRUE | TRUE |
| 14 | 65453438 - 65529373 | | FALSE | TRUE |
| 1 | 156863490 - 156886226 | | TRUE | TRUE |
| 1 | 156863490 - 156886226 | | TRUE | TRUE |
| 1 | 156863490 - 156886226 | T - 50.00% | FALSE | TRUE |
| 1 | 156863490 - 156886226 | | FALSE | TRUE |
| 1 | 55181495 - 55208330 | | TRUE | TRUE |
| 1 | 55181495 - 55208330 | | TRUE | TRUE |
| 1 | 55181495 - 55208330 | T - 71.43% | TRUE | TRUE |
| 1 | 55181495 - 55208330 | | TRUE | TRUE |
| 2 | 220074488 - 220083712 | | TRUE | TRUE |
| 2 | 220074488 - 220083712 | | TRUE | TRUE |
| 2 | 220074488 - 220083712 | F - 11.76% | TRUE | TRUE |
| 2 | 220074488 - 220083712 | F - 5.88% | TRUE | TRUE |
| 2 | 220074488 - 220083712 | F - 29.41% | TRUE | TRUE |
| 2 | 220074488 - 220083712 | F - 29.41% | TRUE | TRUE |
| 2 | 220074488 - 220083712 | F - 5.88% | TRUE | TRUE |
| 2 | 220074488 - 220083712 | F - 5.88% | TRUE | TRUE |
| 2 | 220074488 - 220083712 | | TRUE | TRUE |
| 2 | 220074488 - 220083712 | | TRUE | TRUE |
| 5 | 43602791 - 43707507 | | TRUE | TRUE |
| 5 | 43602791 - 43707507 | F - 33.33% | TRUE | TRUE |
| 5 | 43602791 - 43707507 | | TRUE | TRUE |
| 6 | 32008931 - 32077151 | | TRUE | TRUE |
| 6 | 32008931 - 32077151 | T - 57.14% | TRUE | TRUE |
| 6 | 32008931 - 32077151 | | TRUE | TRUE |
| 6 | 32008931 - 32077151 | F - 42.86% | FALSE | TRUE |
| 7 | 77428109 - 77586821 | | TRUE | TRUE |
| 7 | 77428109 - 77586821 | F - 7.69% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 7 | 77428109 - 77586821 | | FALSE | TRUE |
| X | | 119254863 - 119379122 | | TRUE | TRUE |
| X | | 119254863 - 119379122 | F - 40.00% | TRUE | TRUE |
| | 11 | 45907047 - 45928016 | | TRUE | TRUE |
| | 11 | 45907047 - 45928016 | | TRUE | TRUE |
| | 11 | 45907047 - 45928016 | T - 75.00% | FALSE | TRUE |
| | 11 | 45907047 - 45928016 | T - 75.00% | TRUE | TRUE |
| | 11 | 45907047 - 45928016 | F - 37.50% | TRUE | TRUE |
| | 11 | 45907047 - 45928016 | | FALSE | TRUE |
| | 11 | 45907047 - 45928016 | | TRUE | TRUE |
| | 11 | 45907047 - 45928016 | T - 75.00% | TRUE | TRUE |
| | 11 | 8714898 - 8932498 | F - 26.32% | TRUE | TRUE |
| | 11 | 8714898 - 8932498 | | TRUE | TRUE |
| | 11 | 8714898 - 8932498 | | FALSE | TRUE |
| | 11 | 70313961 - 70963623 | | TRUE | FALSE |
| | 11 | 70313961 - 70963623 | | TRUE | FALSE |
| | 11 | 70313961 - 70963623 | | TRUE | TRUE |
| | 11 | 70313961 - 70963623 | | TRUE | TRUE |
| | 11 | 70313961 - 70963623 | F - 33.33% | TRUE | TRUE |
| | 11 | 70313961 - 70963623 | F - 16.67% | TRUE | TRUE |
| | 11 | 70313961 - 70963623 | F - 3.33% | TRUE | TRUE |
| | 13 | 100741269 - 101182691 | | TRUE | FALSE |
| | 13 | 100741269 - 101182691 | T - 75.00% | FALSE | TRUE |
| | 14 | 100150651 - 100193638 | | TRUE | FALSE |
| | 14 | 100150651 - 100193638 | | TRUE | TRUE |
| | 14 | 100150651 - 100193638 | T - 85.71% | FALSE | TRUE |
| | 14 | 75119880 - 75179818 | | TRUE | FALSE |
| | 14 | 75119880 - 75179818 | | TRUE | TRUE |
| | 14 | 75119880 - 75179818 | | TRUE | TRUE |
| | 14 | 75119880 - 75179818 | F - 8.33% | FALSE | TRUE |
| | 14 | 75119880 - 75179818 | | FALSE | TRUE |
| | 15 | 40886218 - 40956540 | | TRUE | TRUE |
| | 15 | 40886218 - 40956540 | F - 44.44% | TRUE | TRUE |
| | 15 | 40886218 - 40956540 | | FALSE | TRUE |
| | 15 | 40886218 - 40956540 | | TRUE | TRUE |
| | 15 | 40886218 - 40956540 | T - 88.89% | FALSE | TRUE |
| | 15 | 40886218 - 40956540 | T - 88.89% | TRUE | TRUE |
| | 15 | 40886218 - 40956540 | | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | | TRUE | FALSE |
| | 17 | 20224477 - 20305504 | | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | T - 66.67% | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | F - 33.33% | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | T - 66.67% | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | T - 66.67% | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | | TRUE | TRUE |
| | 17 | 20224477 - 20305504 | | TRUE | TRUE |
| | 19 | 571310 - 583493 | | TRUE | TRUE |
| | 19 | 571310 - 583493 | | TRUE | TRUE |
| | 19 | 571310 - 583493 | F - 10.00% | FALSE | TRUE |
| | 19 | 10527449 - 10580307 | | TRUE | TRUE |
| | 19 | 10527449 - 10580307 | F - 13.33% | TRUE | TRUE |
| | 1 | 29563028 - 29653325 | | TRUE | TRUE |
| | 1 | 29563028 - 29653325 | | TRUE | TRUE |
| | 1 | 29563028 - 29653325 | T - 56.25% | TRUE | TRUE |
| | 1 | 29563028 - 29653325 | | TRUE | TRUE |
| | 1 | 76251879 - 76261100 | | TRUE | TRUE |
| | 1 | 76251879 - 76261100 | F - 4.35% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 76251879 - 76261100 | F - 4.35% | FALSE | TRUE |
| 1 | 76251879 - 76261100 | F - 8.70% | FALSE | TRUE |
| 2 | 11319887 - 11488456 | | TRUE | FALSE |
| 2 | 11319887 - 11488456 | F - 36.36% | TRUE | FALSE |
| 2 | 11319887 - 11488456 | F - 9.09% | TRUE | TRUE |
| 2 | 152104454 - 152118393 | F - 20.00% | FALSE | TRUE |
| 2 | 152104454 - 152118393 | F - 40.00% | TRUE | TRUE |
| 2 | 152104454 - 152118393 | | FALSE | TRUE |
| 2 | 152104454 - 152118393 | | TRUE | TRUE |
| 3 | 101292939 - 101313281 | F - 7.14% | TRUE | TRUE |
| 3 | 101292939 - 101313281 | | FALSE | TRUE |
| 5 | 141018869 - 141030986 | | TRUE | TRUE |
| 5 | 141018869 - 141030986 | F - 15.38% | TRUE | TRUE |
| 6 | 99720793 - 99797938 | F - 14.29% | TRUE | TRUE |
| 6 | 99720793 - 99797938 | | FALSE | TRUE |
| 6 | 99720793 - 99797938 | F - 28.57% | TRUE | TRUE |
| 6 | 99720793 - 99797938 | F - 14.29% | FALSE | TRUE |
| 6 | 99720793 - 99797938 | F - 42.86% | TRUE | TRUE |
| 6 | 99720793 - 99797938 | | TRUE | TRUE |
| 7 | 44617493 - 44621886 | | TRUE | TRUE |
| 7 | 44617493 - 44621886 | F - 40.00% | TRUE | TRUE |
| 8 | 42195972 - 42229331 | | TRUE | TRUE |
| 8 | 42195972 - 42229331 | | TRUE | TRUE |
| 8 | 42195972 - 42229331 | | TRUE | TRUE |
| 8 | 42195972 - 42229331 | F - 4.76% | TRUE | TRUE |
| 8 | 42195972 - 42229331 | T - 66.67% | FALSE | TRUE |
| 11 | 113185251 - 113254266 | | FALSE | TRUE |
| 11 | 113185251 - 113254266 | | TRUE | TRUE |
| 11 | 113185251 - 113254266 | F - 5.00% | TRUE | TRUE |
| 11 | 113185251 - 113254266 | | TRUE | TRUE |
| 11 | 113185251 - 113254266 | F - 10.00% | TRUE | TRUE |
| 11 | 113185251 - 113254266 | F - 35.00% | TRUE | TRUE |
| 11 | 113185251 - 113254266 | | TRUE | TRUE |
| 11 | 113185251 - 113254266 | F - 5.00% | TRUE | TRUE |
| 11 | 113185251 - 113254266 | F - 25.00% | TRUE | TRUE |
| 11 | 113185251 - 113254266 | | FALSE | TRUE |
| 11 | 113185251 - 113254266 | F - 25.00% | FALSE | TRUE |
| 11 | 117075053 - 117103241 | F - 14.29% | TRUE | TRUE |
| 11 | 117075053 - 117103241 | F - 14.29% | TRUE | TRUE |
| 11 | 117075053 - 117103241 | | TRUE | TRUE |
| 15 | 82647286 - 82708204 | | TRUE | FALSE |
| 15 | 82647286 - 82708204 | T - 66.67% | TRUE | TRUE |
| 15 | 82647286 - 82708204 | | TRUE | TRUE |
| 15 | 82647286 - 82708204 | T - 100.00% | TRUE | TRUE |
| 16 | 50727514 - 50766987 | | TRUE | TRUE |
| 16 | 50727514 - 50766987 | | FALSE | TRUE |
| 16 | 50727514 - 50766987 | | TRUE | TRUE |
| 16 | 50727514 - 50766987 | F - 5.88% | TRUE | TRUE |
| 2 | 190744335 - 191068210 | T - 57.14% | TRUE | FALSE |
| 2 | 190744335 - 191068210 | F - 28.57% | TRUE | FALSE |
| 2 | 190744335 - 191068210 | T - 71.43% | TRUE | TRUE |
| 2 | 190744335 - 191068210 | F - 7.14% | TRUE | FALSE |
| 2 | 190744335 - 191068210 | F - 7.14% | TRUE | TRUE |
| 2 | 190744335 - 191068210 | F - 14.29% | TRUE | TRUE |
| 2 | 190744335 - 191068210 | F - 14.29% | TRUE | TRUE |
| 2 | 190744335 - 191068210 | F - 14.29% | TRUE | TRUE |
| 2 | 190744335 - 191068210 | F - 14.29% | FALSE | TRUE |
| 2 | 190744335 - 191068210 | F - 7.14% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 190744335 - 191068210 | | FALSE | TRUE |
| 2 | 190744335 - 191068210 | F - 7.14% | TRUE | TRUE |
| 2 | 234263153 - 234380750 | F - 5.56% | TRUE | TRUE |
| 2 | 234263153 - 234380750 | | TRUE | TRUE |
| 2 | 234263153 - 234380750 | F - 5.56% | TRUE | FALSE |
| 2 | 234263153 - 234380750 | F - 5.56% | TRUE | TRUE |
| 2 | 234263153 - 234380750 | F - 5.56% | TRUE | TRUE |
| 2 | 234263153 - 234380750 | F - 16.67% | TRUE | TRUE |
| 2 | 234263153 - 234380750 | | TRUE | TRUE |
| 2 | 234263153 - 234380750 | F - 44.44% | TRUE | TRUE |
| 2 | 234263153 - 234380750 | | FALSE | TRUE |
| 2 | 234263153 - 234380750 | | FALSE | TRUE |
| 2 | 222282747 - 222438922 | | TRUE | FALSE |
| 2 | 222282747 - 222438922 | | TRUE | FALSE |
| 2 | 222282747 - 222438922 | | TRUE | TRUE |
| 2 | 222282747 - 222438922 | | TRUE | TRUE |
| 2 | 222282747 - 222438922 | F - 4.76% | TRUE | FALSE |
| 2 | 222282747 - 222438922 | T - 52.38% | TRUE | TRUE |
| 2 | 222282747 - 222438922 | F - 4.76% | FALSE | TRUE |
| 2 | 222282747 - 222438922 | | FALSE | TRUE |
| 2 | 222282747 - 222438922 | | TRUE | TRUE |
| 2 | 222282747 - 222438922 | F - 4.76% | TRUE | TRUE |
| 2 | 222282747 - 222438922 | F - 4.76% | TRUE | TRUE |
| 3 | 107241783 - 107530171 | | TRUE | TRUE |
| 3 | 107241783 - 107530171 | F - 2.94% | TRUE | TRUE |
| 3 | 107241783 - 107530171 | | TRUE | TRUE |
| 3 | 107241783 - 107530171 | F - 2.94% | TRUE | TRUE |
| 3 | 107241783 - 107530171 | F - 5.88% | TRUE | TRUE |
| 3 | 155480401 - 155524140 | | TRUE | TRUE |
| 3 | 155480401 - 155524140 | | TRUE | TRUE |
| 3 | 155480401 - 155524140 | T - 85.71% | TRUE | TRUE |
| 7 | 128577666 - 128590089 | F - 3.33% | TRUE | TRUE |
| 7 | 128577666 - 128590089 | | TRUE | TRUE |
| 7 | 128577666 - 128590089 | T - 96.67% | TRUE | TRUE |
| 7 | 55861237 - 55930482 | | TRUE | FALSE |
| 7 | 55861237 - 55930482 | T - 66.67% | TRUE | TRUE |
| 8 | 17013538 - 17082308 | | TRUE | TRUE |
| 8 | 17013538 - 17082308 | F - 14.29% | TRUE | FALSE |
| 8 | 17013538 - 17082308 | | TRUE | TRUE |
| 9 | 136205160 - 136214986 | | TRUE | TRUE |
| 9 | 136205160 - 136214986 | T - 76.92% | TRUE | TRUE |
| X | 131157245 - 131209971 | | FALSE | TRUE |
| X | 131157245 - 131209971 | F - 30.77% | TRUE | TRUE |
| X | 131157245 - 131209971 | F - 38.46% | TRUE | TRUE |
| X | 131157245 - 131209971 | | TRUE | TRUE |
| X | 131157245 - 131209971 | F - 15.38% | TRUE | TRUE |
| X | 131157245 - 131209971 | | TRUE | TRUE |
| 12 | 8332805 - 8368747 | | FALSE | TRUE |
| 12 | 8332805 - 8368747 | F - 8.33% | TRUE | TRUE |
| 12 | 8332805 - 8368747 | | TRUE | TRUE |
| 12 | 8332805 - 8368747 | F - 33.33% | TRUE | TRUE |
| 12 | 8332805 - 8368747 | F - 8.33% | TRUE | TRUE |
| 12 | 8332805 - 8368747 | F - 16.67% | TRUE | TRUE |
| 12 | 8332805 - 8368747 | F - 25.00% | TRUE | TRUE |
| 12 | 8332805 - 8368747 | T - 50.00% | TRUE | TRUE |
| 12 | 8332805 - 8368747 | T - 75.00% | TRUE | TRUE |
| 15 | 41624892 - 41673248 | | TRUE | TRUE |
| 15 | 41624892 - 41673248 | T - 83.33% | TRUE | TRUE |

| | | | | |
|-------------|---------------------|-------------|-------|-------|
| 15 | 41624892 - 41673248 | T - 83.33% | TRUE | TRUE |
| 15 | 41624892 - 41673248 | | TRUE | TRUE |
| 15 | 41624892 - 41673248 | | FALSE | TRUE |
| 15 | 43524793 - 43559055 | | TRUE | FALSE |
| 15 | 43524793 - 43559055 | | TRUE | TRUE |
| 15 | 43524793 - 43559055 | T - 100.00% | FALSE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | F - 5.26% | TRUE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | F - 5.26% | TRUE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | F - 5.26% | TRUE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | F - 5.26% | FALSE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | F - 36.84% | TRUE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | F - 5.26% | TRUE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | | TRUE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | | FALSE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | | FALSE | TRUE |
| 6_apd_hap1 | 1148926 - 1153548 | T - 84.21% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | F - 16.67% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | F - 33.33% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | F - 16.67% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | F - 8.33% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | F - 8.33% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | | FALSE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | | FALSE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | T - 50.00% | TRUE | TRUE |
| 6_apd_hap1 | 1208639 - 1269654 | | FALSE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | F - 5.26% | TRUE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | F - 5.26% | TRUE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | F - 5.26% | TRUE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | F - 5.26% | FALSE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | F - 36.84% | TRUE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | F - 5.26% | TRUE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | | TRUE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | | FALSE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | | FALSE | TRUE |
| 6_cox_hap2 | 1420791 - 1425413 | T - 84.21% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | F - 16.67% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | F - 33.33% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | F - 16.67% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | F - 8.33% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | F - 8.33% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | | FALSE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | | FALSE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | T - 50.00% | TRUE | TRUE |
| 6_cox_hap2 | 1480505 - 1541523 | | FALSE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | F - 16.67% | TRUE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | F - 33.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | F - 16.67% | TRUE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | F - 8.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | F - 8.33% | TRUE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | | FALSE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | | FALSE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | T - 50.00% | TRUE | TRUE |
| 6_dbb_hap3 | 1262134 - 1323147 | | FALSE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | F - 16.67% | TRUE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | F - 33.33% | TRUE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | F - 16.67% | TRUE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | F - 8.33% | TRUE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | F - 8.33% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 6_mann_hap4 | 1267361 - 1328014 | | FALSE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | T - 50.00% | TRUE | TRUE |
| 6_mann_hap4 | 1267361 - 1328014 | | FALSE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | F - 16.67% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | F - 16.67% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | F - 8.33% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | F - 16.67% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | F - 41.67% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | F - 8.33% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | | FALSE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | T - 50.00% | TRUE | TRUE |
| 6_mcf_hap5 | 1350652 - 1411318 | | FALSE | TRUE |
| 5 | 149737202 - 149779871 | | TRUE | TRUE |
| 5 | 149737202 - 149779871 | | TRUE | TRUE |
| 5 | 149737202 - 149779871 | F - 4.55% | TRUE | TRUE |
| 5 | 149737202 - 149779871 | | TRUE | TRUE |
| 5 | 149737202 - 149779871 | | FALSE | TRUE |
| 5 | 149737202 - 149779871 | | TRUE | TRUE |
| 1 | 203595689 - 203713209 | | TRUE | TRUE |
| 1 | 203595689 - 203713209 | F - 11.11% | TRUE | TRUE |
| 1 | 203595689 - 203713209 | T - 61.11% | TRUE | TRUE |
| 1 | 203595689 - 203713209 | | FALSE | TRUE |
| 1 | 43300352 - 43312093 | F - 25.00% | TRUE | TRUE |
| 1 | 43300352 - 43312093 | | TRUE | TRUE |
| 1 | 43300352 - 43312093 | F - 25.00% | TRUE | TRUE |
| 1 | 43300352 - 43312093 | | TRUE | TRUE |
| 1 | 43300352 - 43312093 | T - 50.00% | TRUE | TRUE |
| 1 | 59348540 - 59362375 | | TRUE | FALSE |
| 1 | 59348540 - 59362375 | T - 50.00% | TRUE | TRUE |
| 2 | 170440850 - 170504696 | | TRUE | TRUE |
| 2 | 170440850 - 170504696 | | TRUE | FALSE |
| 2 | 170440850 - 170504696 | T - 82.35% | TRUE | TRUE |
| 2 | 170440850 - 170504696 | | TRUE | TRUE |
| 2 | 170440850 - 170504696 | | FALSE | TRUE |
| 4 | 129213906 - 129440549 | | TRUE | FALSE |
| 4 | 129213906 - 129440549 | F - 20.00% | TRUE | TRUE |
| 4 | 129213906 - 129440549 | F - 40.00% | TRUE | TRUE |
| 4 | 129213906 - 129440549 | | TRUE | TRUE |
| 4 | 129213906 - 129440549 | F - 20.00% | FALSE | TRUE |
| 4 | 129213906 - 129440549 | F - 40.00% | TRUE | TRUE |
| 4 | 129213906 - 129440549 | F - 20.00% | FALSE | TRUE |
| 4 | 129213906 - 129440549 | F - 40.00% | TRUE | TRUE |
| 4 | 129213906 - 129440549 | F - 20.00% | TRUE | TRUE |
| 4 | 129213906 - 129440549 | F - 20.00% | TRUE | TRUE |
| 4 | 129213906 - 129440549 | | FALSE | TRUE |
| X | 24483338 - 24568583 | F - 33.33% | FALSE | TRUE |
| X | 24483338 - 24568583 | | FALSE | TRUE |
| X | 102585114 - 102587254 | T - 83.33% | TRUE | TRUE |
| X | 102585114 - 102587254 | | FALSE | TRUE |
| 11 | 118097409 - 118123065 | | FALSE | TRUE |
| 11 | 118097409 - 118123065 | T - 70.00% | TRUE | TRUE |
| 12 | 131438452 - 131626008 | | TRUE | TRUE |
| 12 | 131438452 - 131626008 | | FALSE | TRUE |
| 12 | 131438452 - 131626008 | F - 45.45% | FALSE | TRUE |
| 12 | 131438452 - 131626008 | | FALSE | TRUE |
| 12 | 131438452 - 131626008 | | FALSE | TRUE |
| 12 | 131438452 - 131626008 | F - 45.45% | FALSE | TRUE |
| 12 | 131438452 - 131626008 | F - 45.45% | FALSE | TRUE |
| 14 | 35451163 - 35498773 | T - 81.82% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 14 | 35451163 - 35498773 | T - 54.55% | TRUE | TRUE |
| 14 | 35451163 - 35498773 | | TRUE | TRUE |
| 14 | 35451163 - 35498773 | F - 9.09% | TRUE | TRUE |
| 14 | 35451163 - 35498773 | | TRUE | TRUE |
| 14 | 59951161 - 59972081 | | TRUE | TRUE |
| 14 | 59951161 - 59972081 | F - 35.71% | TRUE | FALSE |
| 14 | 59951161 - 59972081 | | TRUE | TRUE |
| 14 | 59951161 - 59972081 | F - 7.14% | FALSE | TRUE |
| 17 | 44910621 - 44964096 | | TRUE | TRUE |
| 17 | 44910621 - 44964096 | F - 40.00% | TRUE | TRUE |
| 17 | 44910621 - 44964096 | F - 20.00% | TRUE | FALSE |
| 17 | 44910621 - 44964096 | T - 100.00% | TRUE | FALSE |
| 18 | 60190658 - 60253962 | | TRUE | TRUE |
| 18 | 60190658 - 60253962 | F - 16.67% | FALSE | TRUE |
| 19 | 4343524 - 4360083 | | TRUE | TRUE |
| 19 | 4343524 - 4360083 | T - 100.00% | TRUE | TRUE |
| 19 | 4343524 - 4360083 | | TRUE | TRUE |
| 21 | 30671192 - 31003071 | F - 8.33% | TRUE | TRUE |
| 21 | 30671192 - 31003071 | F - 16.67% | TRUE | TRUE |
| 21 | 30671192 - 31003071 | | TRUE | TRUE |
| 21 | 30671192 - 31003071 | F - 8.33% | TRUE | TRUE |
| 21 | 30671192 - 31003071 | | TRUE | TRUE |
| 21 | 30671192 - 31003071 | F - 8.33% | TRUE | TRUE |
| 21 | 30671192 - 31003071 | | TRUE | TRUE |
| 21 | 30671192 - 31003071 | F - 25.00% | TRUE | TRUE |
| 21 | 30671192 - 31003071 | | TRUE | TRUE |
| 22 | 42949865 - 42970388 | F - 6.25% | TRUE | TRUE |
| 22 | 42949865 - 42970388 | | TRUE | TRUE |
| 22 | 42949865 - 42970388 | T - 81.25% | TRUE | TRUE |
| 22 | 42949865 - 42970388 | | TRUE | FALSE |
| 22 | 42949865 - 42970388 | F - 6.25% | TRUE | TRUE |
| 22 | 42949865 - 42970388 | T - 62.50% | TRUE | TRUE |
| 22 | 42949865 - 42970388 | F - 43.75% | TRUE | TRUE |
| 22 | 42949865 - 42970388 | T - 56.25% | TRUE | TRUE |
| 22 | 42949865 - 42970388 | | FALSE | TRUE |
| 22 | 42949865 - 42970388 | | TRUE | TRUE |
| 22 | 42949865 - 42970388 | T - 56.25% | FALSE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | F - 8.33% | TRUE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | F - 41.67% | TRUE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | F - 16.67% | TRUE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | F - 8.33% | TRUE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | F - 8.33% | TRUE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | | FALSE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | | FALSE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | T - 50.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1298115 - 1359860 | | FALSE | TRUE |
| 1 | 156433519 - 156470620 | | TRUE | TRUE |
| 1 | 156433519 - 156470620 | | TRUE | TRUE |
| 1 | 156433519 - 156470620 | F - 12.50% | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | F - 7.14% | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 1 | 145524891 - 145543868 | F - 7.14% | FALSE | TRUE |
| 1 | 145524891 - 145543868 | | TRUE | TRUE |
| 2 | 108863651 - 108881807 | T - 100.00% | TRUE | FALSE |
| 2 | 108863651 - 108881807 | | TRUE | FALSE |
| 3 | 25824408 - 25836025 | | TRUE | TRUE |
| 3 | 25824408 - 25836025 | T - 83.33% | TRUE | TRUE |
| 3 | 25824408 - 25836025 | F - 16.67% | TRUE | TRUE |
| 3 | 25824408 - 25836025 | F - 8.33% | FALSE | TRUE |
| 3 | 114970043 - 115004194 | | TRUE | TRUE |
| 3 | 114970043 - 115004194 | T - 100.00% | TRUE | TRUE |
| 3 | 114970043 - 115004194 | | FALSE | TRUE |
| 3 | 114970043 - 115004194 | T - 100.00% | TRUE | TRUE |
| 3 | 114970043 - 115004194 | | FALSE | TRUE |
| 3 | 190231840 - 190375843 | | TRUE | TRUE |
| 3 | 190231840 - 190375843 | | TRUE | TRUE |
| 3 | 190231840 - 190375843 | T - 76.92% | TRUE | TRUE |
| 4 | 71681499 - 71705662 | | TRUE | TRUE |
| 4 | 71681499 - 71705662 | F - 28.57% | TRUE | TRUE |
| 4 | 38792298 - 38807199 | | TRUE | FALSE |
| 4 | 38792298 - 38807199 | T - 53.85% | TRUE | TRUE |
| 5 | 35048861 - 35230823 | | TRUE | FALSE |
| 5 | 35048861 - 35230823 | | TRUE | FALSE |
| 5 | 35048861 - 35230823 | T - 74.07% | TRUE | FALSE |
| 5 | 35048861 - 35230823 | | TRUE | FALSE |
| 5 | 35048861 - 35230823 | F - 33.33% | TRUE | TRUE |
| 5 | 35048861 - 35230823 | F - 40.74% | TRUE | TRUE |
| 5 | 35048861 - 35230823 | F - 22.22% | TRUE | TRUE |
| 5 | 35048861 - 35230823 | F - 3.70% | TRUE | TRUE |
| 5 | 35048861 - 35230823 | F - 11.11% | FALSE | TRUE |
| 5 | 35048861 - 35230823 | | TRUE | TRUE |
| 5 | 137450861 - 137475132 | | TRUE | TRUE |
| 5 | 137450861 - 137475132 | F - 44.44% | TRUE | TRUE |
| 5 | 137450861 - 137475132 | | TRUE | TRUE |
| 5 | 137450861 - 137475132 | | TRUE | TRUE |
| 5 | 137450861 - 137475132 | | TRUE | TRUE |
| 5 | 137450861 - 137475132 | F - 11.11% | FALSE | TRUE |
| 5 | 137450861 - 137475132 | F - 11.11% | FALSE | TRUE |
| 5 | 137450861 - 137475132 | F - 11.11% | TRUE | TRUE |
| 8 | 62413115 - 62627199 | | TRUE | TRUE |
| 8 | 62413115 - 62627199 | | TRUE | TRUE |
| 8 | 62413115 - 62627199 | F - 2.17% | TRUE | TRUE |
| 8 | 62413115 - 62627199 | F - 15.22% | TRUE | TRUE |
| 8 | 62413115 - 62627199 | | TRUE | TRUE |
| 8 | 62413115 - 62627199 | F - 2.17% | TRUE | TRUE |
| 8 | 62413115 - 62627199 | | TRUE | TRUE |
| 8 | 62413115 - 62627199 | | TRUE | TRUE |
| 8 | 12294522 - 12424423 | F - 20.00% | TRUE | TRUE |
| 8 | 12294522 - 12424423 | T - 60.00% | TRUE | TRUE |
| 8 | 12294522 - 12424423 | F - 20.00% | FALSE | TRUE |
| 8 | 12294522 - 12424423 | | FALSE | TRUE |
| 9 | 117781854 - 117880536 | F - 15.00% | TRUE | TRUE |
| 9 | 117781854 - 117880536 | F - 35.00% | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | F - 35.00% | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | F - 45.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | F - 35.00% | TRUE | TRUE |
| 9 | 117781854 - 117880536 | F - 35.00% | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | T - 50.00% | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 117781854 - 117880536 | | TRUE | TRUE |
| 9 | 135600965 - 135754198 | | TRUE | TRUE |
| 9 | 135600965 - 135754198 | | TRUE | TRUE |
| 9 | 135600965 - 135754198 | F - 10.00% | FALSE | TRUE |
| 10 | 89419370 - 89507462 | | TRUE | TRUE |
| 10 | 89419370 - 89507462 | F - 10.00% | TRUE | TRUE |
| 10 | 102820999 - 102827891 | | TRUE | FALSE |
| 10 | 102820999 - 102827891 | T - 66.67% | TRUE | TRUE |
| 15 | 43891596 - 43924561 | F - 22.22% | TRUE | FALSE |
| 15 | 43891596 - 43924561 | | TRUE | FALSE |
| 15 | 43891596 - 43924561 | | TRUE | TRUE |
| 16 | 28616903 - 28634907 | F - 40.00% | TRUE | TRUE |
| 16 | 28616903 - 28634907 | F - 40.00% | TRUE | TRUE |
| 16 | 28616903 - 28634907 | F - 13.33% | TRUE | TRUE |
| 16 | 28616903 - 28634907 | T - 100.00% | TRUE | TRUE |
| 16 | 28616903 - 28634907 | | FALSE | TRUE |
| 16 | 28616903 - 28634907 | | FALSE | TRUE |
| 16 | 28616903 - 28634907 | T - 86.67% | FALSE | TRUE |
| 16 | 28616903 - 28634907 | | FALSE | TRUE |
| 16 | 28616903 - 28634907 | | FALSE | TRUE |
| 20 | 10415951 - 10617477 | | TRUE | TRUE |
| 20 | 10415951 - 10617477 | | TRUE | FALSE |
| 20 | 10415951 - 10617477 | T - 50.00% | TRUE | TRUE |
| 21 | 44949072 - 45079374 | | TRUE | TRUE |
| 21 | 44949072 - 45079374 | T - 80.00% | TRUE | TRUE |
| 21 | 44949072 - 45079374 | T - 100.00% | TRUE | TRUE |
| 21 | 44949072 - 45079374 | | FALSE | TRUE |
| 22 | 31460091 - 31500610 | F - 13.51% | TRUE | TRUE |
| 22 | 31460091 - 31500610 | | TRUE | TRUE |
| 22 | 31460091 - 31500610 | F - 2.70% | TRUE | FALSE |
| 22 | 31460091 - 31500610 | | FALSE | TRUE |
| 22 | 31460091 - 31500610 | | TRUE | TRUE |
| 22 | 31460091 - 31500610 | | TRUE | TRUE |
| 22 | 31460091 - 31500610 | F - 5.41% | TRUE | TRUE |
| 22 | 31460091 - 31500610 | | TRUE | TRUE |
| 22 | 31460091 - 31500610 | | TRUE | TRUE |
| 22 | 31460091 - 31500610 | F - 8.11% | TRUE | TRUE |
| 22 | 31460091 - 31500610 | F - 10.81% | TRUE | TRUE |
| 12 | 26272078 - 26278060 | | TRUE | TRUE |
| 12 | 26272078 - 26278060 | T - 80.00% | TRUE | TRUE |
| 12 | 26272078 - 26278060 | | TRUE | TRUE |
| 1 | 20008706 - 20126758 | | TRUE | TRUE |
| 1 | 20008706 - 20126758 | | FALSE | TRUE |
| 1 | 20008706 - 20126758 | | FALSE | TRUE |
| 1 | 20008706 - 20126758 | | FALSE | TRUE |
| 1 | 20008706 - 20126758 | T - 75.00% | FALSE | TRUE |
| 1 | 20008706 - 20126758 | | FALSE | TRUE |
| 2 | 210636717 - 210864024 | | TRUE | FALSE |
| 2 | 210636717 - 210864024 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 2 | 210636717 - 210864024 | | TRUE | TRUE |
| 2 | 210636717 - 210864024 | F - 33.33% | FALSE | TRUE |
| 2 | 210636717 - 210864024 | | FALSE | TRUE |
| 2 | 210636717 - 210864024 | | FALSE | TRUE |
| 2 | 210636717 - 210864024 | | TRUE | TRUE |
| 3 | 50333829 - 50336899 | | TRUE | TRUE |
| 3 | 50333829 - 50336899 | F - 7.14% | TRUE | TRUE |
| 3 | 50333829 - 50336899 | F - 35.71% | TRUE | TRUE |
| 3 | 50333829 - 50336899 | F - 21.43% | TRUE | TRUE |
| 5 | 78985659 - 79096063 | | TRUE | FALSE |
| 5 | 78985659 - 79096063 | F - 25.00% | TRUE | TRUE |
| 5 | 78985659 - 79096063 | T - 50.00% | TRUE | TRUE |
| 5 | 78985659 - 79096063 | F - 25.00% | FALSE | TRUE |
| 6 | 36095586 - 36107842 | T - 81.82% | TRUE | TRUE |
| 6 | 36095586 - 36107842 | | FALSE | TRUE |
| 7 | 38762563 - 38971994 | F - 47.37% | TRUE | TRUE |
| 7 | 38762563 - 38971994 | F - 5.26% | TRUE | FALSE |
| 7 | 38762563 - 38971994 | F - 36.84% | TRUE | TRUE |
| 7 | 38762563 - 38971994 | F - 5.26% | FALSE | TRUE |
| 7 | 38762563 - 38971994 | F - 5.26% | TRUE | TRUE |
| 7 | 38762563 - 38971994 | | TRUE | TRUE |
| 7 | 38762563 - 38971994 | | TRUE | TRUE |
| 8 | 28747911 - 28922281 | | TRUE | TRUE |
| 8 | 28747911 - 28922281 | | TRUE | FALSE |
| 8 | 28747911 - 28922281 | F - 13.79% | TRUE | TRUE |
| 8 | 28747911 - 28922281 | | TRUE | TRUE |
| 8 | 128806779 - 129113499 | | TRUE | TRUE |
| 8 | 128806779 - 129113499 | | TRUE | TRUE |
| 8 | 128806779 - 129113499 | F - 12.00% | TRUE | TRUE |
| 8 | 128806779 - 129113499 | | TRUE | TRUE |
| 8 | 93895758 - 94029901 | F - 3.03% | TRUE | TRUE |
| 8 | 93895758 - 94029901 | | TRUE | TRUE |
| 8 | 93895758 - 94029901 | F - 6.06% | TRUE | TRUE |
| 8 | 93895758 - 94029901 | | TRUE | TRUE |
| 8 | 93895758 - 94029901 | | FALSE | TRUE |
| 11 | 128555046 - 128683162 | | TRUE | TRUE |
| 11 | 128555046 - 128683162 | | TRUE | TRUE |
| 11 | 128555046 - 128683162 | | TRUE | FALSE |
| 11 | 128555046 - 128683162 | T - 85.71% | TRUE | TRUE |
| 15 | 83023773 - 83084729 | | TRUE | FALSE |
| 15 | 83023773 - 83084729 | T - 66.67% | TRUE | TRUE |
| 15 | 83023773 - 83084729 | | TRUE | TRUE |
| 15 | 83023773 - 83084729 | T - 100.00% | TRUE | TRUE |
| 15 | 45459411 - 45493373 | F - 23.53% | TRUE | TRUE |
| 15 | 45459411 - 45493373 | | TRUE | TRUE |
| 15 | 45459411 - 45493373 | F - 23.53% | TRUE | TRUE |
| 18 | 77155772 - 77289325 | | TRUE | TRUE |
| 18 | 77155772 - 77289325 | T - 52.38% | TRUE | TRUE |
| 18 | 77155772 - 77289325 | F - 38.10% | TRUE | TRUE |
| 19 | 51409608 - 51413994 | | TRUE | TRUE |
| 19 | 51409608 - 51413994 | F - 9.09% | TRUE | TRUE |
| 19 | 51409608 - 51413994 | F - 45.45% | TRUE | TRUE |
| 19 | 51409608 - 51413994 | T - 81.82% | TRUE | TRUE |
| 19 | 51409608 - 51413994 | | TRUE | TRUE |
| 21 | 28208606 - 28217728 | | TRUE | TRUE |
| 21 | 28208606 - 28217728 | F - 16.67% | FALSE | TRUE |
| 1 | 100315640 - 100389579 | | TRUE | TRUE |
| 1 | 100315640 - 100389579 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 1 | 100315640 - 100389579 | T - 93.33% | TRUE | TRUE |
| | 1 | 36881428 - 36916086 | | TRUE | TRUE |
| | 1 | 36881428 - 36916086 | | TRUE | TRUE |
| | 1 | 36881428 - 36916086 | | FALSE | TRUE |
| | 1 | 36881428 - 36916086 | T - 66.67% | FALSE | TRUE |
| | 1 | 36881428 - 36916086 | | FALSE | TRUE |
| | 3 | 52715172 - 52728510 | | TRUE | FALSE |
| | 3 | 52715172 - 52728510 | F - 5.00% | TRUE | TRUE |
| | 3 | 52715172 - 52728510 | | TRUE | TRUE |
| | 4 | 15683285 - 15692071 | F - 8.33% | TRUE | TRUE |
| | 4 | 15683285 - 15692071 | | TRUE | FALSE |
| | 4 | 15683285 - 15692071 | T - 66.67% | TRUE | TRUE |
| | 5 | 65435799 - 65479443 | | TRUE | TRUE |
| | 5 | 65435799 - 65479443 | | TRUE | TRUE |
| | 5 | 65435799 - 65479443 | | TRUE | TRUE |
| | 5 | 65435799 - 65479443 | F - 4.55% | TRUE | TRUE |
| | 5 | 65435799 - 65479443 | F - 9.09% | TRUE | TRUE |
| | 5 | 65435799 - 65479443 | | FALSE | TRUE |
| | 6 | 29694378 - 29716826 | | TRUE | TRUE |
| | 6 | 29694378 - 29716826 | F - 20.00% | TRUE | TRUE |
| | 6 | 29694378 - 29716826 | | FALSE | TRUE |
| | 6 | 29694378 - 29716826 | | TRUE | TRUE |
| | 6 | 75962638 - 75994684 | T - 50.00% | TRUE | TRUE |
| | 6 | 75962638 - 75994684 | F - 12.50% | TRUE | TRUE |
| | 6 | 75962638 - 75994684 | | TRUE | TRUE |
| | 9 | 35681989 - 35691017 | F - 9.09% | TRUE | TRUE |
| | 9 | 35681989 - 35691017 | F - 18.18% | TRUE | TRUE |
| | 9 | 35681989 - 35691017 | | TRUE | TRUE |
| | 9 | 35681989 - 35691017 | F - 9.09% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | FALSE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | T - 71.43% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | T - 74.29% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | FALSE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | T - 71.43% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | F - 5.71% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | T - 74.29% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | T - 71.43% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | T - 65.71% | FALSE | TRUE |
| | 9 | 123151147 - 123342448 | | FALSE | TRUE |
| | 9 | 123151147 - 123342448 | T - 71.43% | TRUE | TRUE |
| | 9 | 123151147 - 123342448 | F - 2.86% | TRUE | TRUE |
| X | | 129040097 - 129063738 | | TRUE | FALSE |
| X | | 129040097 - 129063738 | T - 100.00% | TRUE | TRUE |
| | 10 | 62538089 - 62554610 | | TRUE | FALSE |
| | 10 | 62538089 - 62554610 | T - 56.25% | TRUE | TRUE |
| | 10 | 62538089 - 62554610 | F - 12.50% | TRUE | TRUE |
| | 10 | 62538089 - 62554610 | T - 62.50% | TRUE | TRUE |
| | 11 | 86748886 - 87039876 | T - 81.82% | TRUE | TRUE |
| | 11 | 86748886 - 87039876 | F - 18.18% | TRUE | TRUE |
| | 11 | 86748886 - 87039876 | T - 81.82% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 11 | 86748886 - 87039876 | | TRUE | TRUE |
| 11 | 86748886 - 87039876 | | TRUE | TRUE |
| 11 | 86748886 - 87039876 | | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | T - 90.00% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | T - 66.67% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | TRUE |
| 11 | 89057522 - 89322779 | T - 60.00% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | TRUE |
| 11 | 89057522 - 89322779 | T - 66.67% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | F - 3.33% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | T - 86.67% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | T - 86.67% | TRUE | FALSE |
| 11 | 89057522 - 89322779 | F - 43.33% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | T - 73.33% | TRUE | FALSE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | F - 46.67% | TRUE | FALSE |
| 11 | 89057522 - 89322779 | F - 6.67% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | F - 43.33% | TRUE | FALSE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | F - 6.67% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | F - 3.33% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | | TRUE | TRUE |
| 11 | 89057522 - 89322779 | | TRUE | FALSE |
| 11 | 89057522 - 89322779 | F - 6.67% | TRUE | FALSE |
| 11 | 89057522 - 89322779 | | TRUE | TRUE |
| 11 | 89057522 - 89322779 | T - 56.67% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | F - 3.33% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | F - 10.00% | TRUE | TRUE |
| 11 | 89057522 - 89322779 | F - 10.00% | TRUE | TRUE |
| 14 | 81421333 - 81612646 | F - 18.18% | FALSE | TRUE |
| 14 | 81421333 - 81612646 | | TRUE | TRUE |
| 14 | 81421333 - 81612646 | F - 27.27% | TRUE | TRUE |
| 14 | 81421333 - 81612646 | F - 27.27% | TRUE | TRUE |
| 14 | 81421333 - 81612646 | F - 18.18% | TRUE | TRUE |
| 14 | 81421333 - 81612646 | | TRUE | TRUE |
| 14 | 81421333 - 81612646 | | FALSE | TRUE |
| 21 | 38071433 - 38131815 | T - 70.00% | TRUE | TRUE |
| 21 | 38071433 - 38131815 | F - 10.00% | TRUE | TRUE |
| 21 | 38071433 - 38131815 | T - 60.00% | TRUE | TRUE |
| 21 | 38071433 - 38131815 | | TRUE | TRUE |
| 21 | 38071433 - 38131815 | | FALSE | TRUE |
| X | 19930978 - 19988416 | | TRUE | TRUE |
| X | 19930978 - 19988416 | | FALSE | TRUE |
| X | 19930978 - 19988416 | F - 14.29% | TRUE | TRUE |
| X | 19930978 - 19988416 | | FALSE | TRUE |
| 1 | 231664287 - 232177019 | | TRUE | FALSE |
| 1 | 231664287 - 232177019 | | FALSE | TRUE |
| 1 | 231664287 - 232177019 | F - 1.54% | TRUE | TRUE |
| 1 | 231664287 - 232177019 | | FALSE | TRUE |
| 1 | 231664287 - 232177019 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 230838269 - 230850336 | T - 60.00% | FALSE | TRUE |
| 1 | 230838269 - 230850336 | | FALSE | TRUE |
| 1 | 230838269 - 230850336 | F - 40.00% | TRUE | TRUE |
| 2 | 71295408 - 71306935 | F - 6.90% | TRUE | FALSE |
| 2 | 71295408 - 71306935 | | TRUE | TRUE |
| 2 | 71295408 - 71306935 | | TRUE | TRUE |
| 2 | 71295408 - 71306935 | F - 3.45% | TRUE | TRUE |
| 2 | 219472488 - 219501909 | | TRUE | TRUE |
| 2 | 219472488 - 219501909 | | TRUE | FALSE |
| 2 | 219472488 - 219501909 | | TRUE | TRUE |
| 2 | 219472488 - 219501909 | | TRUE | TRUE |
| 2 | 219472488 - 219501909 | | TRUE | TRUE |
| 2 | 219472488 - 219501909 | F - 36.36% | TRUE | TRUE |
| 2 | 219472488 - 219501909 | | TRUE | TRUE |
| 2 | 219472488 - 219501909 | T - 54.55% | FALSE | TRUE |
| 2 | 219472488 - 219501909 | T - 59.09% | FALSE | TRUE |
| 2 | 219472488 - 219501909 | F - 40.91% | TRUE | TRUE |
| 2 | 56093097 - 56151298 | F - 19.05% | TRUE | TRUE |
| 2 | 56093097 - 56151298 | | FALSE | TRUE |
| 2 | 56093097 - 56151298 | F - 23.81% | TRUE | TRUE |
| 2 | 56093097 - 56151298 | | TRUE | TRUE |
| 2 | 56093097 - 56151298 | F - 4.76% | TRUE | TRUE |
| 2 | 56093097 - 56151298 | | FALSE | TRUE |
| 2 | 56093097 - 56151298 | F - 47.62% | TRUE | TRUE |
| 2 | 56093097 - 56151298 | F - 38.10% | TRUE | TRUE |
| 3 | 189349205 - 189615068 | | TRUE | TRUE |
| 3 | 189349205 - 189615068 | | TRUE | TRUE |
| 3 | 189349205 - 189615068 | T - 92.31% | TRUE | TRUE |
| 3 | 189349205 - 189615068 | T - 92.31% | FALSE | TRUE |
| 3 | 189349205 - 189615068 | | FALSE | TRUE |
| 4 | 186990306 - 187006255 | | TRUE | TRUE |
| 4 | 186990306 - 187006255 | F - 36.36% | FALSE | TRUE |
| 4 | 186990306 - 187006255 | | TRUE | TRUE |
| 4 | 186366336 - 186392913 | F - 7.14% | TRUE | FALSE |
| 4 | 186366336 - 186392913 | F - 7.14% | TRUE | TRUE |
| 4 | 186366336 - 186392913 | | TRUE | TRUE |
| 5 | 68513573 - 68525985 | | TRUE | TRUE |
| 5 | 68513573 - 68525985 | F - 28.57% | TRUE | TRUE |
| 6 | 32135983 - 32145888 | F - 21.05% | TRUE | TRUE |
| 6 | 32135983 - 32145888 | | TRUE | FALSE |
| 6 | 32135983 - 32145888 | F - 5.26% | TRUE | FALSE |
| 6 | 32135983 - 32145888 | F - 15.79% | FALSE | TRUE |
| 6 | 32135983 - 32145888 | | TRUE | TRUE |
| 6 | 110931181 - 111137161 | F - 38.46% | TRUE | TRUE |
| 6 | 110931181 - 111137161 | F - 15.38% | TRUE | TRUE |
| 6 | 110931181 - 111137161 | F - 7.69% | TRUE | TRUE |
| 6 | 110931181 - 111137161 | | TRUE | TRUE |
| 6 | 110931181 - 111137161 | F - 30.77% | TRUE | TRUE |
| 7 | 11013499 - 11209250 | T - 68.42% | TRUE | TRUE |
| 7 | 11013499 - 11209250 | F - 10.53% | TRUE | FALSE |
| 7 | 11013499 - 11209250 | | TRUE | TRUE |
| 8 | 87497059 - 87573726 | | TRUE | TRUE |
| 8 | 87497059 - 87573726 | | TRUE | TRUE |
| 8 | 87497059 - 87573726 | F - 5.88% | FALSE | TRUE |
| 8 | 87497059 - 87573726 | | FALSE | TRUE |
| 8 | 101930804 - 101965623 | | TRUE | TRUE |
| 8 | 101930804 - 101965623 | F - 7.32% | TRUE | TRUE |
| 8 | 101930804 - 101965623 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| X | 8432871 - 8434551 | F - 33.33% | TRUE | TRUE |
| X | 8432871 - 8434551 | | TRUE | FALSE |
| 11 | 77726761 - 77791265 | | TRUE | FALSE |
| 11 | 77726761 - 77791265 | F - 31.58% | TRUE | TRUE |
| 11 | 77726761 - 77791265 | F - 36.84% | TRUE | TRUE |
| 11 | 77726761 - 77791265 | F - 42.11% | TRUE | TRUE |
| 12 | 27849321 - 27863703 | | TRUE | FALSE |
| 12 | 27849321 - 27863703 | F - 33.33% | TRUE | FALSE |
| 12 | 27849321 - 27863703 | F - 33.33% | FALSE | TRUE |
| 12 | 27849321 - 27863703 | F - 33.33% | TRUE | TRUE |
| 12 | 27849321 - 27863703 | | TRUE | TRUE |
| 13 | 103451399 - 103493888 | F - 30.77% | TRUE | FALSE |
| 13 | 103451399 - 103493888 | | TRUE | TRUE |
| 13 | 103451399 - 103493888 | | TRUE | TRUE |
| 13 | 103451399 - 103493888 | F - 7.69% | TRUE | TRUE |
| 13 | 103451399 - 103493888 | | FALSE | TRUE |
| 14 | 24028774 - 24037279 | | TRUE | TRUE |
| 14 | 24028774 - 24037279 | | TRUE | TRUE |
| 14 | 24028774 - 24037279 | T - 58.82% | TRUE | TRUE |
| 14 | 24028774 - 24037279 | T - 76.47% | FALSE | TRUE |
| 14 | 24028774 - 24037279 | T - 76.47% | TRUE | TRUE |
| 14 | 24028774 - 24037279 | | FALSE | TRUE |
| 15 | 33057747 - 33486897 | | TRUE | TRUE |
| 15 | 33057747 - 33486897 | F - 33.33% | TRUE | TRUE |
| 15 | 33057747 - 33486897 | F - 11.11% | TRUE | FALSE |
| 15 | 33057747 - 33486897 | | TRUE | TRUE |
| 15 | 33057747 - 33486897 | F - 11.11% | TRUE | TRUE |
| 15 | 33057747 - 33486897 | | TRUE | TRUE |
| 17 | 43861646 - 43913194 | T - 80.00% | TRUE | FALSE |
| 17 | 43861646 - 43913194 | | FALSE | TRUE |
| 17 | 43861646 - 43913194 | T - 73.33% | TRUE | TRUE |
| 1 | 117452679 - 117532980 | T - 57.14% | TRUE | TRUE |
| 1 | 117452679 - 117532980 | F - 42.86% | TRUE | TRUE |
| 1 | 117452679 - 117532980 | | FALSE | TRUE |
| 1 | 201592411 - 201796102 | F - 4.76% | TRUE | TRUE |
| 1 | 201592411 - 201796102 | F - 33.33% | TRUE | TRUE |
| 1 | 201592411 - 201796102 | F - 9.52% | TRUE | TRUE |
| 1 | 201592411 - 201796102 | | TRUE | TRUE |
| 1 | 201592411 - 201796102 | F - 4.76% | TRUE | TRUE |
| 1 | 201592411 - 201796102 | F - 4.76% | TRUE | TRUE |
| 1 | 201592411 - 201796102 | | TRUE | TRUE |
| 1 | 201592411 - 201796102 | | FALSE | TRUE |
| 1 | 222791428 - 222856105 | | TRUE | FALSE |
| 1 | 222791428 - 222856105 | | TRUE | FALSE |
| 1 | 222791428 - 222856105 | F - 36.84% | TRUE | TRUE |
| 1 | 33065773 - 33116504 | | TRUE | TRUE |
| 1 | 33065773 - 33116504 | F - 5.00% | TRUE | TRUE |
| 1 | 155165379 - 155178969 | F - 23.81% | TRUE | TRUE |
| 1 | 155165379 - 155178969 | | TRUE | TRUE |
| 1 | 155165379 - 155178969 | T - 61.90% | TRUE | TRUE |
| 1 | 155165379 - 155178969 | | TRUE | TRUE |
| 1 | 155165379 - 155178969 | | TRUE | TRUE |
| 1 | 155165379 - 155178969 | F - 4.76% | TRUE | TRUE |
| 1 | 155165379 - 155178969 | | TRUE | TRUE |
| 1 | 155165379 - 155178969 | F - 14.29% | FALSE | TRUE |
| 1 | 155165379 - 155178969 | | FALSE | TRUE |
| 1 | 155165379 - 155178969 | | FALSE | TRUE |
| 2 | 138721590 - 138773934 | | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 2 | 138721590 - 138773934 | | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 41.67% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | | TRUE | FALSE |
| 2 | 138721590 - 138773934 | F - 8.33% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 8.33% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 25.00% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 25.00% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | | FALSE | TRUE |
| 2 | 138721590 - 138773934 | | FALSE | TRUE |
| 2 | 138721590 - 138773934 | | TRUE | TRUE |
| 2 | 138721590 - 138773934 | | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 8.33% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 8.33% | TRUE | TRUE |
| 2 | 138721590 - 138773934 | F - 41.67% | TRUE | TRUE |
| 2 | 55399687 - 55459699 | | TRUE | FALSE |
| 2 | 55399687 - 55459699 | | TRUE | FALSE |
| 2 | 55399687 - 55459699 | F - 42.11% | TRUE | TRUE |
| 2 | 55399687 - 55459699 | | TRUE | TRUE |
| 2 | 55399687 - 55459699 | T - 68.42% | TRUE | TRUE |
| 2 | 55399687 - 55459699 | T - 57.89% | TRUE | TRUE |
| 2 | 220238180 - 220586393 | | TRUE | TRUE |
| 2 | 220238180 - 220586393 | | TRUE | TRUE |
| 2 | 220238180 - 220586393 | | TRUE | TRUE |
| 2 | 220238180 - 220586393 | F - 7.14% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | | TRUE | FALSE |
| 5 | 125695788 - 125832186 | | TRUE | TRUE |
| 5 | 125695788 - 125832186 | F - 3.57% | TRUE | FALSE |
| 5 | 125695788 - 125832186 | F - 7.14% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | F - 14.29% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | | TRUE | TRUE |
| 5 | 125695788 - 125832186 | | TRUE | TRUE |
| 5 | 125695788 - 125832186 | | FALSE | TRUE |
| 5 | 125695788 - 125832186 | F - 7.14% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | F - 7.14% | FALSE | TRUE |
| 5 | 125695788 - 125832186 | F - 3.57% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | F - 3.57% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | F - 3.57% | TRUE | TRUE |
| 5 | 125695788 - 125832186 | | FALSE | TRUE |
| 5 | 125695788 - 125832186 | | FALSE | TRUE |
| 5 | 148786252 - 148812399 | F - 23.53% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | T - 76.47% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | F - 17.65% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | F - 23.53% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | | TRUE | TRUE |
| 5 | 148786252 - 148812399 | T - 82.35% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | T - 64.71% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | F - 35.29% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | F - 5.88% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | | TRUE | TRUE |
| 5 | 148786252 - 148812399 | | TRUE | TRUE |
| 5 | 148786252 - 148812399 | | TRUE | TRUE |
| 5 | 148786252 - 148812399 | F - 23.53% | TRUE | TRUE |
| 5 | 148786252 - 148812399 | | TRUE | TRUE |
| 5 | 148786252 - 148812399 | | TRUE | TRUE |
| 5 | 148786252 - 148812399 | F - 23.53% | FALSE | TRUE |
| 5 | 148786252 - 148812399 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 5 | 148786252 - 148812399 | | FALSE | TRUE |
| 6 | 56322785 - 56819426 | F - 5.77% | TRUE | TRUE |
| 6 | 56322785 - 56819426 | F - 7.69% | TRUE | TRUE |
| 6 | 56322785 - 56819426 | | FALSE | TRUE |
| 6 | 56322785 - 56819426 | | TRUE | TRUE |
| 6 | 56322785 - 56819426 | | FALSE | TRUE |
| 6 | 56322785 - 56819426 | F - 3.85% | TRUE | TRUE |
| 6 | 56322785 - 56819426 | | FALSE | TRUE |
| 9 | 98205262 - 98279339 | | TRUE | TRUE |
| 9 | 98205262 - 98279339 | F - 3.23% | TRUE | TRUE |
| 9 | 98205262 - 98279339 | F - 9.68% | TRUE | TRUE |
| 9 | 98205262 - 98279339 | F - 3.23% | TRUE | TRUE |
| 9 | 98205262 - 98279339 | | TRUE | TRUE |
| 9 | 98205262 - 98279339 | T - 70.97% | TRUE | TRUE |
| 9 | 98205262 - 98279339 | | FALSE | TRUE |
| X | 106956451 - 107020572 | | TRUE | FALSE |
| X | 106956451 - 107020572 | T - 62.50% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 8.33% | TRUE | FALSE |
| X | 106956451 - 107020572 | F - 4.17% | TRUE | TRUE |
| X | 106956451 - 107020572 | | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 4.17% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 8.33% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 12.50% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 4.17% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 8.33% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 4.17% | TRUE | TRUE |
| X | 106956451 - 107020572 | | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 4.17% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 8.33% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 12.50% | TRUE | TRUE |
| X | 106956451 - 107020572 | F - 16.67% | TRUE | TRUE |
| X | 106956451 - 107020572 | T - 62.50% | TRUE | TRUE |
| X | 106956451 - 107020572 | | FALSE | TRUE |
| X | 151121596 - 151143152 | | TRUE | TRUE |
| X | 151121596 - 151143152 | | TRUE | TRUE |
| X | 151121596 - 151143152 | F - 4.35% | TRUE | TRUE |
| X | 151121596 - 151143152 | F - 21.74% | TRUE | TRUE |
| X | 153194695 - 153200676 | | TRUE | FALSE |
| X | 153194695 - 153200676 | | TRUE | TRUE |
| X | 153194695 - 153200676 | F - 4.35% | TRUE | TRUE |
| 11 | 64844924 - 64851623 | | TRUE | FALSE |
| 11 | 64844924 - 64851623 | F - 16.67% | TRUE | FALSE |
| 12 | 48733791 - 48745029 | F - 25.00% | TRUE | TRUE |
| 12 | 48733791 - 48745029 | | TRUE | TRUE |
| 12 | 89813495 - 89920039 | F - 9.09% | TRUE | TRUE |
| 12 | 89813495 - 89920039 | | TRUE | FALSE |
| 12 | 89813495 - 89920039 | F - 27.27% | TRUE | TRUE |
| 14 | 92980118 - 93155339 | | TRUE | FALSE |
| 14 | 92980118 - 93155339 | | TRUE | TRUE |
| 14 | 92980118 - 93155339 | T - 90.00% | TRUE | TRUE |
| 14 | 92980118 - 93155339 | | FALSE | TRUE |
| 14 | 92980118 - 93155339 | | FALSE | TRUE |
| 14 | 92980118 - 93155339 | | TRUE | TRUE |
| 17 | 19140690 - 19240028 | F - 5.00% | TRUE | TRUE |
| 17 | 19140690 - 19240028 | F - 20.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 17 | 19140690 - 19240028 | | FALSE | TRUE |
| 17 | 28903483 - 28992716 | | TRUE | TRUE |
| 17 | 28903483 - 28992716 | F - 22.22% | TRUE | TRUE |
| 17 | 28903483 - 28992716 | | TRUE | TRUE |
| 19 | 35629728 - 35634013 | F - 25.00% | FALSE | TRUE |
| 19 | 35629728 - 35634013 | F - 25.00% | TRUE | TRUE |
| 19 | 35629728 - 35634013 | | TRUE | TRUE |
| 19 | 35629728 - 35634013 | T - 100.00% | TRUE | TRUE |
| 19 | 35629728 - 35634013 | T - 50.00% | TRUE | TRUE |
| 19 | 35629728 - 35634013 | | FALSE | TRUE |
| 20 | 47835832 - 47860614 | T - 50.00% | TRUE | TRUE |
| 20 | 47835832 - 47860614 | | TRUE | TRUE |
| 20 | 5917881 - 5931182 | | TRUE | TRUE |
| 20 | 5917881 - 5931182 | F - 20.00% | FALSE | TRUE |
| 17 | 15635570 - 15649479 | | TRUE | TRUE |
| 17 | 15635570 - 15649479 | | TRUE | TRUE |
| 17 | 15635570 - 15649479 | T - 62.50% | TRUE | TRUE |
| 1 | 244617679 - 244804479 | | TRUE | TRUE |
| 1 | 244617679 - 244804479 | T - 62.50% | TRUE | TRUE |
| 1 | 244617679 - 244804479 | | FALSE | TRUE |
| 1 | 8064464 - 8086393 | | TRUE | TRUE |
| 1 | 8064464 - 8086393 | T - 75.00% | TRUE | TRUE |
| 1 | 8064464 - 8086393 | F - 12.50% | TRUE | TRUE |
| 1 | 8064464 - 8086393 | F - 25.00% | TRUE | TRUE |
| 3 | 12837971 - 12913415 | | TRUE | TRUE |
| 3 | 12837971 - 12913415 | | TRUE | TRUE |
| 3 | 12837971 - 12913415 | F - 12.50% | FALSE | TRUE |
| 3 | 12837971 - 12913415 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | T - 53.85% | FALSE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | FALSE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 13573824 - 13679922 | | TRUE | TRUE |
| 3 | 183353356 - 183402304 | F - 5.26% | TRUE | TRUE |
| 3 | 183353356 - 183402304 | | FALSE | TRUE |
| 3 | 183353356 - 183402304 | | TRUE | TRUE |
| 5 | 43376747 - 43412493 | | TRUE | TRUE |
| 5 | 43376747 - 43412493 | T - 66.67% | TRUE | TRUE |
| 5 | 137273642 - 137387650 | | TRUE | TRUE |
| 5 | 137273642 - 137387650 | | TRUE | TRUE |
| 5 | 137273642 - 137387650 | F - 6.67% | TRUE | TRUE |
| 5 | 137273642 - 137387650 | | TRUE | TRUE |
| 5 | 137273642 - 137387650 | | FALSE | TRUE |
| 5 | 137273642 - 137387650 | | FALSE | TRUE |
| 5 | 138855113 - 138862520 | | TRUE | TRUE |
| 5 | 138855113 - 138862520 | F - 5.56% | TRUE | TRUE |
| 7 | 24612887 - 24729159 | | TRUE | FALSE |
| 7 | 24612887 - 24729159 | | TRUE | TRUE |
| 7 | 24612887 - 24729159 | F - 8.33% | TRUE | TRUE |
| 7 | 24612887 - 24729159 | T - 83.33% | FALSE | TRUE |
| 8 | 124025458 - 124054663 | | TRUE | FALSE |
| 8 | 124025458 - 124054663 | F - 9.09% | FALSE | TRUE |
| 8 | 124025458 - 124054663 | | FALSE | TRUE |
| 9 | 86237872 - 86259045 | T - 77.78% | TRUE | TRUE |
| 9 | 86237872 - 86259045 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 54409681 - 54449814 | | TRUE | TRUE |
| 12 | 54409681 - 54449814 | T - 57.14% | TRUE | TRUE |
| 12 | 54409681 - 54449814 | | TRUE | TRUE |
| 12 | 54409681 - 54449814 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | TRUE | FALSE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | F - 17.39% | TRUE | TRUE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | TRUE | TRUE |
| 14 | 102690837 - 102771537 | F - 4.35% | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | F - 36.96% | TRUE | TRUE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | FALSE | TRUE |
| 14 | 102690837 - 102771537 | | TRUE | TRUE |
| 15 | 85777817 - 86292586 | | TRUE | TRUE |
| 15 | 85777817 - 86292586 | | TRUE | TRUE |
| 15 | 85777817 - 86292586 | | TRUE | TRUE |
| 15 | 85777817 - 86292586 | T - 70.59% | TRUE | TRUE |
| 15 | 85777817 - 86292586 | | TRUE | TRUE |
| 15 | 85777817 - 86292586 | F - 47.06% | TRUE | TRUE |
| 15 | 85777817 - 86292586 | F - 29.41% | TRUE | TRUE |
| 15 | 85777817 - 86292586 | F - 5.88% | TRUE | TRUE |
| 15 | 85777817 - 86292586 | F - 5.88% | TRUE | TRUE |
| 15 | 85777817 - 86292586 | F - 11.76% | TRUE | TRUE |
| 17 | 7788123 - 7816078 | F - 47.06% | TRUE | TRUE |
| 17 | 7788123 - 7816078 | | TRUE | TRUE |
| 22 | 38879443 - 38903665 | | TRUE | TRUE |
| 22 | 38879443 - 38903665 | | TRUE | FALSE |
| 22 | 38879443 - 38903665 | F - 5.56% | TRUE | TRUE |
| 2 | 169690645 - 169769881 | | TRUE | FALSE |
| 2 | 169690645 - 169769881 | | TRUE | FALSE |
| 2 | 169690645 - 169769881 | F - 42.86% | TRUE | TRUE |
| 1 | 24742245 - 24799473 | | TRUE | FALSE |
| 1 | 24742245 - 24799473 | | TRUE | TRUE |
| 1 | 24742245 - 24799473 | F - 15.38% | FALSE | TRUE |
| 1 | 38158090 - 38175391 | F - 11.11% | TRUE | TRUE |
| 1 | 38158090 - 38175391 | | FALSE | TRUE |
| 1 | 204485507 - 204677661 | | TRUE | TRUE |
| 1 | 204485507 - 204677661 | | TRUE | FALSE |
| 1 | 204485507 - 204677661 | | TRUE | TRUE |
| 1 | 204485507 - 204677661 | F - 3.70% | TRUE | TRUE |
| 1 | 204485507 - 204677661 | | TRUE | TRUE |
| 2 | 30670092 - 30867091 | | TRUE | FALSE |
| 2 | 30670092 - 30867091 | | TRUE | FALSE |
| 2 | 30670092 - 30867091 | F - 20.00% | TRUE | TRUE |
| 2 | 88469814 - 88486156 | | TRUE | TRUE |
| 2 | 88469814 - 88486156 | | TRUE | FALSE |
| 2 | 88469814 - 88486156 | | TRUE | TRUE |
| 2 | 88469814 - 88486156 | | FALSE | TRUE |
| 2 | 88469814 - 88486156 | F - 5.00% | TRUE | TRUE |
| 2 | 88469814 - 88486156 | | TRUE | TRUE |
| 2 | 203637873 - 203736708 | | TRUE | TRUE |
| 2 | 203637873 - 203736708 | | FALSE | TRUE |
| 2 | 203637873 - 203736708 | F - 22.22% | TRUE | TRUE |
| 2 | 203637873 - 203736708 | F - 11.11% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 2 | 203637873 - 203736708 | F - 25.93% | TRUE | TRUE |
| | 2 | 203637873 - 203736708 | | TRUE | TRUE |
| | 2 | 203637873 - 203736708 | | TRUE | TRUE |
| | 4 | 86396267 - 86923823 | F - 38.89% | TRUE | TRUE |
| | 4 | 86396267 - 86923823 | | FALSE | TRUE |
| | 4 | 86396267 - 86923823 | | TRUE | TRUE |
| | 4 | 174089904 - 174245118 | F - 9.09% | TRUE | TRUE |
| | 4 | 174089904 - 174245118 | T - 63.64% | TRUE | TRUE |
| | 4 | 174089904 - 174245118 | | FALSE | TRUE |
| | 5 | 127419458 - 127525380 | F - 45.45% | TRUE | TRUE |
| | 5 | 127419458 - 127525380 | | TRUE | TRUE |
| | 5 | 127419458 - 127525380 | F - 9.09% | TRUE | TRUE |
| | 5 | 127419458 - 127525380 | | FALSE | TRUE |
| | 5 | 127419458 - 127525380 | F - 18.18% | FALSE | TRUE |
| | 5 | 127419458 - 127525380 | F - 9.09% | FALSE | TRUE |
| | 5 | 127419458 - 127525380 | | TRUE | TRUE |
| | 5 | 127419458 - 127525380 | | FALSE | TRUE |
| | 7 | 95401818 - 95739634 | T - 75.00% | TRUE | TRUE |
| | 7 | 95401818 - 95739634 | | TRUE | TRUE |
| | 7 | 95401818 - 95739634 | | TRUE | TRUE |
| | 7 | 95401818 - 95739634 | | FALSE | TRUE |
| | 7 | 95401818 - 95739634 | | FALSE | TRUE |
| | 7 | 95401818 - 95739634 | | FALSE | TRUE |
| | 7 | 95401818 - 95739634 | F - 5.00% | TRUE | TRUE |
| | 7 | 95401818 - 95739634 | F - 5.00% | FALSE | TRUE |
| | 7 | 95401818 - 95739634 | | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | F - 35.29% | TRUE | FALSE |
| | 7 | 22157908 - 22396763 | F - 41.18% | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | | TRUE | FALSE |
| | 7 | 22157908 - 22396763 | | FALSE | TRUE |
| | 7 | 22157908 - 22396763 | F - 17.65% | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | F - 23.53% | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | F - 23.53% | FALSE | TRUE |
| | 7 | 22157908 - 22396763 | | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | F - 23.53% | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | F - 23.53% | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | F - 23.53% | TRUE | TRUE |
| | 7 | 22157908 - 22396763 | | FALSE | TRUE |
| | 7 | 22157908 - 22396763 | | FALSE | TRUE |
| | 8 | 95499921 - 95565757 | F - 6.67% | TRUE | FALSE |
| | 8 | 95499921 - 95565757 | | TRUE | TRUE |
| | 9 | 106856541 - 106903700 | F - 29.41% | TRUE | TRUE |
| | 9 | 106856541 - 106903700 | | TRUE | TRUE |
| | 9 | 106856541 - 106903700 | | FALSE | TRUE |
| | 9 | 106856541 - 106903700 | T - 88.24% | TRUE | TRUE |
| | 9 | 106856541 - 106903700 | T - 70.59% | TRUE | TRUE |
| | 9 | 106856541 - 106903700 | | TRUE | TRUE |
| | 9 | 106856541 - 106903700 | | TRUE | TRUE |
| X | | 100264334 - 100307105 | | TRUE | TRUE |
| X | | 100264334 - 100307105 | | TRUE | TRUE |
| X | | 100264334 - 100307105 | T - 94.74% | FALSE | TRUE |
| | 10 | 47658234 - 47701446 | | TRUE | FALSE |
| | 10 | 47658234 - 47701446 | T - 57.14% | FALSE | TRUE |
| | 10 | 114206756 - 114578504 | | TRUE | TRUE |
| | 10 | 114206756 - 114578504 | F - 7.69% | TRUE | TRUE |
| | 10 | 114206756 - 114578504 | | FALSE | TRUE |
| | 10 | 98124363 - 98273683 | T - 87.50% | TRUE | TRUE |
| | 10 | 98124363 - 98273683 | T - 87.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 98124363 - 98273683 | | TRUE | FALSE |
| 10 | 98124363 - 98273683 | | TRUE | TRUE |
| 12 | 15304857 - 15308217 | T - 100.00% | TRUE | TRUE |
| 12 | 15304857 - 15308217 | | TRUE | TRUE |
| 12 | 15260716 - 15374411 | T - 55.56% | TRUE | TRUE |
| 12 | 15260716 - 15374411 | | FALSE | TRUE |
| 12 | 39687030 - 39837192 | | TRUE | FALSE |
| 12 | 39687030 - 39837192 | | TRUE | TRUE |
| 12 | 39687030 - 39837192 | | TRUE | TRUE |
| 12 | 39687030 - 39837192 | T - 88.24% | FALSE | TRUE |
| 12 | 39687030 - 39837192 | | TRUE | TRUE |
| 12 | 39687030 - 39837192 | | FALSE | TRUE |
| 16 | 67022492 - 67043661 | | TRUE | FALSE |
| 16 | 67022492 - 67043661 | | FALSE | TRUE |
| 16 | 67022492 - 67043661 | F - 33.33% | FALSE | TRUE |
| 16 | 31094745 - 31100949 | | TRUE | FALSE |
| 16 | 31094745 - 31100949 | F - 40.00% | FALSE | TRUE |
| 16 | 31094745 - 31100949 | T - 100.00% | TRUE | TRUE |
| 17 | 40351186 - 40428725 | F - 10.00% | TRUE | TRUE |
| 17 | 40351186 - 40428725 | | TRUE | TRUE |
| 17 | 40351186 - 40428725 | F - 10.00% | TRUE | TRUE |
| 17 | 40351186 - 40428725 | F - 20.00% | TRUE | TRUE |
| 17 | 40351186 - 40428725 | | TRUE | TRUE |
| 17 | 48187404 - 48207246 | | TRUE | TRUE |
| 17 | 48187404 - 48207246 | | TRUE | TRUE |
| 17 | 48187404 - 48207246 | | TRUE | TRUE |
| 17 | 48187404 - 48207246 | F - 13.33% | TRUE | TRUE |
| 17 | 48187404 - 48207246 | | FALSE | TRUE |
| 17 | 48187404 - 48207246 | F - 6.67% | FALSE | TRUE |
| 17 | 79910383 - 79919716 | T - 100.00% | TRUE | TRUE |
| 17 | 79910383 - 79919716 | | TRUE | TRUE |
| 20 | 2854066 - 3019320 | F - 40.00% | TRUE | FALSE |
| 20 | 2854066 - 3019320 | | TRUE | TRUE |
| 20 | 2854066 - 3019320 | | TRUE | TRUE |
| 20 | 2854066 - 3019320 | | TRUE | TRUE |
| 2 | 48010221 - 48034092 | | TRUE | TRUE |
| 2 | 48010221 - 48034092 | T - 66.67% | TRUE | TRUE |
| 3 | 130397778 - 130465696 | | TRUE | TRUE |
| 3 | 130397778 - 130465696 | | TRUE | TRUE |
| 3 | 130397778 - 130465696 | F - 45.45% | TRUE | TRUE |
| 3 | 130397778 - 130465696 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | F - 2.27% | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | F - 4.55% | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 4 | 1873123 - 1983934 | | FALSE | TRUE |
| 4 | 1873123 - 1983934 | | FALSE | TRUE |
| 4 | 1873123 - 1983934 | | TRUE | TRUE |
| 5 | 133706870 - 133727799 | | TRUE | FALSE |
| 5 | 133706870 - 133727799 | F - 25.00% | TRUE | TRUE |
| 5 | 74664311 - 74807963 | | TRUE | FALSE |
| 5 | 74664311 - 74807963 | | TRUE | TRUE |
| 5 | 74664311 - 74807963 | F - 45.45% | TRUE | TRUE |
| 7 | 536895 - 559933 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 536895 - 559933 | F - 22.22% | TRUE | TRUE |
| 7 | 536895 - 559933 | F - 44.44% | TRUE | TRUE |
| 7 | 536895 - 559933 | F - 11.11% | TRUE | TRUE |
| 7 | 536895 - 559933 | F - 22.22% | TRUE | TRUE |
| 7 | 536895 - 559933 | F - 11.11% | TRUE | TRUE |
| 7 | 536895 - 559933 | T - 55.56% | TRUE | TRUE |
| 10 | 12171636 - 12211960 | | TRUE | TRUE |
| 10 | 12171636 - 12211960 | | TRUE | TRUE |
| 10 | 12171636 - 12211960 | | TRUE | TRUE |
| 10 | 12171636 - 12211960 | T - 75.00% | TRUE | TRUE |
| 10 | 28339922 - 28591995 | | TRUE | TRUE |
| 10 | 28339922 - 28591995 | | FALSE | TRUE |
| 10 | 28339922 - 28591995 | T - 87.50% | TRUE | TRUE |
| 10 | 93808397 - 94050875 | | TRUE | FALSE |
| 10 | 93808397 - 94050875 | F - 25.00% | TRUE | FALSE |
| 10 | 93808397 - 94050875 | | TRUE | FALSE |
| 10 | 93808397 - 94050875 | | FALSE | TRUE |
| 10 | 93808397 - 94050875 | | FALSE | TRUE |
| 10 | 96796529 - 96829254 | | TRUE | FALSE |
| 10 | 96796529 - 96829254 | T - 92.86% | TRUE | TRUE |
| 10 | 96796529 - 96829254 | T - 100.00% | FALSE | TRUE |
| 10 | 96796529 - 96829254 | | FALSE | TRUE |
| 11 | 46638826 - 46697568 | | TRUE | FALSE |
| 11 | 46638826 - 46697568 | F - 10.00% | TRUE | FALSE |
| 11 | 46638826 - 46697568 | | TRUE | TRUE |
| 11 | 102391239 - 102401484 | | TRUE | TRUE |
| 11 | 102391239 - 102401484 | | TRUE | TRUE |
| 11 | 102391239 - 102401484 | T - 100.00% | TRUE | TRUE |
| 11 | 102391239 - 102401484 | F - 16.67% | TRUE | FALSE |
| 11 | 102391239 - 102401484 | F - 16.67% | TRUE | FALSE |
| 13 | 79188421 - 79234700 | | TRUE | TRUE |
| 13 | 79188421 - 79234700 | T - 75.00% | TRUE | TRUE |
| 13 | 79188421 - 79234700 | | TRUE | TRUE |
| 15 | 52043758 - 52108565 | | TRUE | TRUE |
| 15 | 52043758 - 52108565 | T - 100.00% | TRUE | TRUE |
| 15 | 84867600 - 84898920 | T - 54.55% | TRUE | FALSE |
| 15 | 84867600 - 84898920 | F - 45.45% | TRUE | TRUE |
| 15 | 84867600 - 84898920 | T - 54.55% | TRUE | TRUE |
| 15 | 84867600 - 84898920 | | FALSE | TRUE |
| 15 | 84867600 - 84898920 | | FALSE | TRUE |
| 16 | 57406375 - 57418960 | F - 33.33% | TRUE | TRUE |
| 16 | 57406375 - 57418960 | | TRUE | TRUE |
| 16 | 71762903 - 71842979 | | TRUE | FALSE |
| 16 | 71762903 - 71842979 | F - 12.50% | TRUE | TRUE |
| 17 | 77020251 - 77045870 | F - 10.00% | TRUE | TRUE |
| 17 | 77020251 - 77045870 | F - 20.00% | TRUE | TRUE |
| 17 | 77020251 - 77045870 | | TRUE | TRUE |
| 17 | 77020251 - 77045870 | | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | TRUE | TRUE |
| 18 | 47349156 - 47721451 | F - 42.86% | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | FALSE | TRUE |
| 18 | 47349156 - 47721451 | F - 42.86% | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | TRUE | TRUE |
| 18 | 47349156 - 47721451 | | FALSE | TRUE |
| 1 | 113215763 - 113243368 | T - 57.14% | TRUE | TRUE |
| 1 | 113215763 - 113243368 | F - 3.57% | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 113215763 - 113243368 | F - 3.57% | TRUE | FALSE |
| 1 | 113215763 - 113243368 | | TRUE | TRUE |
| 1 | 113215763 - 113243368 | F - 10.71% | TRUE | TRUE |
| 1 | 113215763 - 113243368 | | TRUE | TRUE |
| 1 | 113215763 - 113243368 | | TRUE | TRUE |
| 1 | 113215763 - 113243368 | T - 60.71% | TRUE | TRUE |
| 1 | 113215763 - 113243368 | | FALSE | TRUE |
| 1 | 28905050 - 28909495 | | TRUE | TRUE |
| 1 | 28905050 - 28909495 | F - 4.76% | TRUE | TRUE |
| 1 | 28905050 - 28909495 | T - 71.43% | TRUE | TRUE |
| 1 | 28905050 - 28909495 | | FALSE | TRUE |
| 1 | 28905050 - 28909495 | | FALSE | TRUE |
| 1 | 47023079 - 47069966 | | TRUE | TRUE |
| 1 | 47023079 - 47069966 | F - 3.33% | TRUE | FALSE |
| 1 | 47023079 - 47069966 | | TRUE | FALSE |
| 1 | 47023079 - 47069966 | F - 3.33% | TRUE | TRUE |
| 1 | 47023079 - 47069966 | | TRUE | TRUE |
| 2 | 27587219 - 27593353 | F - 10.53% | TRUE | TRUE |
| 2 | 27587219 - 27593353 | F - 10.53% | TRUE | TRUE |
| 2 | 27587219 - 27593353 | | TRUE | TRUE |
| 2 | 27587219 - 27593353 | F - 21.05% | TRUE | TRUE |
| 4 | 1795034 - 1810599 | | TRUE | TRUE |
| 4 | 1795034 - 1810599 | T - 64.29% | TRUE | FALSE |
| 6 | 41902671 - 42018095 | | TRUE | TRUE |
| 6 | 41902671 - 42018095 | T - 55.17% | TRUE | TRUE |
| 6 | 41902671 - 42018095 | F - 6.90% | FALSE | TRUE |
| 6 | 41902671 - 42018095 | F - 17.24% | TRUE | TRUE |
| 6 | 41902671 - 42018095 | | FALSE | TRUE |
| 6 | 41902671 - 42018095 | F - 3.45% | FALSE | TRUE |
| 7 | 54610018 - 54641810 | | TRUE | TRUE |
| 7 | 54610018 - 54641810 | | FALSE | TRUE |
| 7 | 54610018 - 54641810 | F - 7.14% | FALSE | TRUE |
| 7 | 54610018 - 54641810 | | FALSE | TRUE |
| 8 | 22004338 - 22014597 | | TRUE | TRUE |
| 8 | 22004338 - 22014597 | | TRUE | FALSE |
| 8 | 22004338 - 22014597 | T - 75.00% | TRUE | TRUE |
| 8 | 81880046 - 82024303 | | FALSE | TRUE |
| 8 | 81880046 - 82024303 | F - 28.57% | TRUE | TRUE |
| 9 | 123837141 - 123939888 | F - 4.35% | TRUE | FALSE |
| 9 | 123837141 - 123939888 | | TRUE | TRUE |
| 9 | 123837141 - 123939888 | | TRUE | FALSE |
| 9 | 123837141 - 123939888 | | TRUE | TRUE |
| 9 | 123837141 - 123939888 | | TRUE | FALSE |
| 9 | 123664671 - 123691451 | | TRUE | TRUE |
| 9 | 123664671 - 123691451 | F - 40.00% | TRUE | TRUE |
| X | 152710178 - 152760978 | | TRUE | TRUE |
| X | 152710178 - 152760978 | F - 5.56% | TRUE | TRUE |
| X | 152710178 - 152760978 | F - 2.78% | TRUE | TRUE |
| X | 152710178 - 152760978 | F - 8.33% | TRUE | TRUE |
| X | 152710178 - 152760978 | | FALSE | TRUE |
| X | 152710178 - 152760978 | F - 2.78% | FALSE | TRUE |
| 10 | 89622870 - 89731687 | | TRUE | FALSE |
| 10 | 89622870 - 89731687 | T - 50.00% | TRUE | TRUE |
| 11 | 85955586 - 85989785 | | TRUE | TRUE |
| 11 | 85955586 - 85989785 | | TRUE | TRUE |
| 11 | 85955586 - 85989785 | T - 71.43% | TRUE | TRUE |
| 12 | 124808957 - 125052010 | F - 5.88% | TRUE | TRUE |
| 12 | 124808957 - 125052010 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 124808957 - 125052010 | | TRUE | TRUE |
| 13 | 31774073 - 31906413 | | TRUE | TRUE |
| 13 | 31774073 - 31906413 | T - 66.67% | TRUE | FALSE |
| 13 | 31774073 - 31906413 | F - 16.67% | FALSE | TRUE |
| 14 | 55595762 - 55612148 | | TRUE | FALSE |
| 14 | 55595762 - 55612148 | F - 10.00% | FALSE | TRUE |
| 14 | 55595762 - 55612148 | | TRUE | TRUE |
| 14 | 51100354 - 51135056 | F - 33.33% | TRUE | TRUE |
| 14 | 51100354 - 51135056 | | TRUE | TRUE |
| 14 | 51100354 - 51135056 | | FALSE | TRUE |
| 14 | 51100354 - 51135056 | T - 83.33% | TRUE | TRUE |
| 14 | 51100354 - 51135056 | | FALSE | TRUE |
| 14 | 51100354 - 51135056 | F - 16.67% | TRUE | TRUE |
| 15 | 81475093 - 81606399 | | TRUE | FALSE |
| 15 | 81475093 - 81606399 | | TRUE | TRUE |
| 15 | 81475093 - 81606399 | | TRUE | TRUE |
| 15 | 81475093 - 81606399 | | TRUE | TRUE |
| 15 | 81475093 - 81606399 | F - 4.00% | TRUE | TRUE |
| 15 | 81475093 - 81606399 | F - 16.00% | TRUE | TRUE |
| 15 | 81475093 - 81606399 | | TRUE | TRUE |
| 15 | 81475093 - 81606399 | | FALSE | TRUE |
| 15 | 81475093 - 81606399 | | FALSE | TRUE |
| 16 | 15737124 - 15820210 | | TRUE | TRUE |
| 16 | 15737124 - 15820210 | F - 41.67% | FALSE | TRUE |
| 16 | 15737124 - 15820210 | F - 8.33% | FALSE | TRUE |
| 3 | 142984064 - 143567373 | | TRUE | TRUE |
| 3 | 142984064 - 143567373 | F - 25.00% | TRUE | TRUE |
| 8 | 17104080 - 17159936 | | TRUE | FALSE |
| 8 | 17104080 - 17159936 | F - 6.25% | TRUE | TRUE |
| 8 | 17104080 - 17159936 | | TRUE | TRUE |
| 1 | 179334855 - 179523870 | | TRUE | TRUE |
| 1 | 179334855 - 179523870 | | TRUE | FALSE |
| 1 | 179334855 - 179523870 | T - 61.90% | TRUE | TRUE |
| 1 | 179334855 - 179523870 | | FALSE | TRUE |
| 1 | 11708418 - 11715842 | F - 9.09% | TRUE | TRUE |
| 1 | 11708418 - 11715842 | F - 27.27% | TRUE | TRUE |
| 1 | 11708418 - 11715842 | F - 27.27% | TRUE | TRUE |
| 1 | 11708418 - 11715842 | F - 18.18% | TRUE | TRUE |
| 1 | 11708418 - 11715842 | | TRUE | TRUE |
| 1 | 11708418 - 11715842 | T - 81.82% | FALSE | TRUE |
| 1 | 11708418 - 11715842 | | TRUE | TRUE |
| 1 | 11708418 - 11715842 | T - 54.55% | TRUE | TRUE |
| 1 | 11708418 - 11715842 | F - 45.45% | TRUE | TRUE |
| 1 | 11708418 - 11715842 | | FALSE | TRUE |
| 1 | 11708418 - 11715842 | | FALSE | TRUE |
| 1 | 11708418 - 11715842 | | FALSE | TRUE |
| 1 | 196194909 - 196577541 | | TRUE | TRUE |
| 1 | 196194909 - 196577541 | | TRUE | FALSE |
| 1 | 196194909 - 196577541 | | TRUE | TRUE |
| 1 | 196194909 - 196577541 | T - 94.12% | TRUE | TRUE |
| 1 | 196194909 - 196577541 | | TRUE | TRUE |
| 1 | 196194909 - 196577541 | | TRUE | TRUE |
| 1 | 196194909 - 196577541 | | FALSE | TRUE |
| 1 | 196194909 - 196577541 | F - 11.76% | TRUE | TRUE |
| 1 | 196194909 - 196577541 | | FALSE | TRUE |
| 1 | 196194909 - 196577541 | | FALSE | TRUE |
| 1 | 196194909 - 196577541 | | FALSE | TRUE |
| 1 | 143347958 - 143379903 | F - 22.22% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 1 | 143347958 - 143379903 | | TRUE | FALSE |
| | 1 | 143347958 - 143379903 | | TRUE | TRUE |
| | 1 | 143347958 - 143379903 | | FALSE | TRUE |
| | 2 | 102123002 - 102511152 | | TRUE | TRUE |
| | 2 | 102123002 - 102511152 | | FALSE | TRUE |
| | 2 | 102123002 - 102511152 | F - 2.86% | FALSE | TRUE |
| | 6 | 31795512 - 31798032 | | TRUE | TRUE |
| | 6 | 31795512 - 31798032 | T - 70.00% | TRUE | TRUE |
| | 6 | 31795512 - 31798032 | | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 21.74% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 17.39% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 8.70% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 13.04% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 17.39% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 26.09% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 8.70% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | FALSE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | FALSE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 17.39% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 13.04% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | FALSE | TRUE |
| | 7 | 143947138 - 144053274 | F - 4.35% | TRUE | TRUE |
| | 7 | 143947138 - 144053274 | | FALSE | TRUE |
| | 7 | 143947138 - 144053274 | | FALSE | TRUE |
| | 8 | 102190106 - 102218421 | | TRUE | TRUE |
| | 8 | 102190106 - 102218421 | F - 25.00% | FALSE | TRUE |
| | 8 | 102190106 - 102218421 | F - 5.00% | TRUE | TRUE |
| | 8 | 102190106 - 102218421 | F - 5.00% | TRUE | TRUE |
| | 8 | 102190106 - 102218421 | | FALSE | TRUE |
| X | | 11136239 - 11683821 | | TRUE | TRUE |
| X | | 11136239 - 11683821 | T - 93.75% | TRUE | TRUE |
| X | | 11136239 - 11683821 | F - 31.25% | TRUE | TRUE |
| X | | 11136239 - 11683821 | | TRUE | TRUE |
| | 10 | 11784356 - 11806069 | F - 12.50% | TRUE | TRUE |
| | 10 | 11784356 - 11806069 | | TRUE | TRUE |
| | 10 | 11784356 - 11806069 | F - 12.50% | TRUE | TRUE |
| | 10 | 11784356 - 11806069 | T - 75.00% | TRUE | TRUE |
| | 10 | 11784356 - 11806069 | T - 100.00% | TRUE | TRUE |
| | 10 | 11784356 - 11806069 | | FALSE | TRUE |
| | 10 | 29746267 - 30025864 | | TRUE | TRUE |
| | 10 | 29746267 - 30025864 | | TRUE | FALSE |
| | 10 | 29746267 - 30025864 | F - 17.39% | TRUE | TRUE |
| | 10 | 29746267 - 30025864 | | FALSE | TRUE |
| | 10 | 29746267 - 30025864 | | TRUE | TRUE |
| | 10 | 29746267 - 30025864 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 29746267 - 30025864 | | TRUE | TRUE |
| 19 | 52800425 - 52829174 | | TRUE | TRUE |
| 19 | 52800425 - 52829174 | | TRUE | FALSE |
| 19 | 52800425 - 52829174 | T - 90.00% | FALSE | TRUE |
| 19 | 14843205 - 14889353 | | TRUE | TRUE |
| 19 | 14843205 - 14889353 | | TRUE | TRUE |
| 19 | 14843205 - 14889353 | | TRUE | TRUE |
| 19 | 14843205 - 14889353 | T - 87.50% | TRUE | TRUE |
| 19 | 14843205 - 14889353 | | TRUE | TRUE |
| 19 | 14843205 - 14889353 | T - 68.75% | FALSE | TRUE |
| 20 | 44462449 - 44471914 | F - 13.64% | TRUE | TRUE |
| 20 | 44462449 - 44471914 | | TRUE | TRUE |
| 20 | 44462449 - 44471914 | T - 50.00% | TRUE | TRUE |
| 20 | 44462449 - 44471914 | | FALSE | TRUE |
| 20 | 44462449 - 44471914 | | TRUE | TRUE |
| 1 | 32757687 - 32799236 | F - 11.76% | TRUE | TRUE |
| 1 | 32757687 - 32799236 | | TRUE | TRUE |
| 1 | 32757687 - 32799236 | F - 23.53% | FALSE | TRUE |
| 2 | 44113363 - 44223144 | F - 20.00% | TRUE | TRUE |
| 2 | 44113363 - 44223144 | | TRUE | TRUE |
| 2 | 44113363 - 44223144 | F - 6.67% | TRUE | TRUE |
| 2 | 44113363 - 44223144 | | TRUE | TRUE |
| 2 | 44113363 - 44223144 | | TRUE | TRUE |
| 4 | 186320694 - 186347139 | | TRUE | TRUE |
| 4 | 186320694 - 186347139 | | TRUE | TRUE |
| 4 | 186320694 - 186347139 | T - 66.67% | TRUE | TRUE |
| 4 | 186320694 - 186347139 | | TRUE | TRUE |
| 5 | 67511548 - 67597649 | F - 20.00% | TRUE | TRUE |
| 5 | 67511548 - 67597649 | F - 28.00% | TRUE | TRUE |
| 5 | 67511548 - 67597649 | | TRUE | TRUE |
| 5 | 67511548 - 67597649 | F - 20.00% | TRUE | TRUE |
| 5 | 67511548 - 67597649 | | TRUE | TRUE |
| 5 | 67511548 - 67597649 | | TRUE | TRUE |
| 5 | 67511548 - 67597649 | F - 20.00% | TRUE | TRUE |
| 5 | 67511548 - 67597649 | F - 28.00% | TRUE | TRUE |
| 5 | 67511548 - 67597649 | | FALSE | TRUE |
| 5 | 67511548 - 67597649 | | FALSE | TRUE |
| 5 | 67511548 - 67597649 | | TRUE | TRUE |
| 5 | 67511548 - 67597649 | F - 12.00% | TRUE | TRUE |
| 9 | 32384601 - 32450834 | | TRUE | TRUE |
| 9 | 32384601 - 32450834 | | TRUE | TRUE |
| 9 | 32384601 - 32450834 | T - 100.00% | TRUE | TRUE |
| 9 | 32384601 - 32450834 | | TRUE | TRUE |
| 9 | 32384601 - 32450834 | T - 100.00% | TRUE | TRUE |
| 10 | 58116989 - 58121036 | F - 20.00% | TRUE | FALSE |
| 10 | 58116989 - 58121036 | | TRUE | FALSE |
| 13 | 20532810 - 20665968 | F - 5.26% | TRUE | TRUE |
| 13 | 20532810 - 20665968 | F - 5.26% | TRUE | TRUE |
| 13 | 20532810 - 20665968 | | TRUE | TRUE |
| 13 | 20532810 - 20665968 | | FALSE | TRUE |
| 15 | 71145578 - 71342436 | | TRUE | TRUE |
| 15 | 71145578 - 71342436 | F - 11.11% | TRUE | TRUE |
| 15 | 71145578 - 71342436 | | TRUE | TRUE |
| 15 | 71145578 - 71342436 | | FALSE | TRUE |
| 15 | 71145578 - 71342436 | | FALSE | TRUE |
| 15 | 71145578 - 71342436 | | TRUE | TRUE |
| 15 | 71145578 - 71342436 | | TRUE | TRUE |
| 16 | 66503747 - 66584315 | | TRUE | FALSE |
| 16 | 66503747 - 66584315 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 16 | 66503747 - 66584315 | T - 92.86% | TRUE | TRUE |
| 19 | 47759731 - 47775213 | | TRUE | TRUE |
| 19 | 47759731 - 47775213 | T - 100.00% | TRUE | TRUE |
| 20 | 46130601 - 46285621 | | TRUE | TRUE |
| 20 | 46130601 - 46285621 | | TRUE | TRUE |
| 20 | 46130601 - 46285621 | | FALSE | TRUE |
| 20 | 46130601 - 46285621 | | FALSE | TRUE |
| 20 | 46130601 - 46285621 | F - 5.88% | TRUE | TRUE |
| 22 | 30770930 - 30817760 | | TRUE | FALSE |
| 22 | 30770930 - 30817760 | T - 53.85% | TRUE | TRUE |
| 22 | 30770930 - 30817760 | | TRUE | TRUE |
| 22 | 30770930 - 30817760 | | TRUE | TRUE |
| 18 | 12991361 - 13125051 | | TRUE | FALSE |
| 18 | 12991361 - 13125051 | T - 72.73% | TRUE | TRUE |
| 18 | 12991361 - 13125051 | | TRUE | TRUE |
| 1 | 115125469 - 115213043 | F - 9.09% | TRUE | TRUE |
| 1 | 115125469 - 115213043 | | FALSE | TRUE |
| 1 | 115125469 - 115213043 | F - 18.18% | TRUE | TRUE |
| 2 | 113914902 - 113960814 | T - 50.00% | TRUE | TRUE |
| 2 | 113914902 - 113960814 | T - 50.00% | TRUE | TRUE |
| 2 | 113914902 - 113960814 | | TRUE | FALSE |
| 3 | 6811688 - 7783218 | | TRUE | TRUE |
| 3 | 6811688 - 7783218 | | TRUE | TRUE |
| 3 | 6811688 - 7783218 | T - 81.48% | FALSE | TRUE |
| 4 | 128544426 - 128637934 | | TRUE | TRUE |
| 4 | 128544426 - 128637934 | | TRUE | FALSE |
| 4 | 128544426 - 128637934 | | TRUE | TRUE |
| 4 | 128544426 - 128637934 | T - 66.67% | TRUE | TRUE |
| 4 | 128544426 - 128637934 | T - 50.00% | TRUE | TRUE |
| 5 | 121647049 - 121799914 | | TRUE | FALSE |
| 5 | 121647049 - 121799914 | T - 89.74% | TRUE | TRUE |
| 5 | 121647049 - 121799914 | T - 79.49% | TRUE | TRUE |
| 5 | 121647049 - 121799914 | | FALSE | TRUE |
| 5 | 52391512 - 52405602 | T - 60.00% | TRUE | TRUE |
| 5 | 52391512 - 52405602 | | TRUE | TRUE |
| 5 | 137150022 - 137225025 | | TRUE | TRUE |
| 5 | 137150022 - 137225025 | T - 50.00% | TRUE | TRUE |
| 6 | 46620652 - 46649356 | | TRUE | TRUE |
| 6 | 46620652 - 46649356 | T - 50.00% | TRUE | TRUE |
| 6 | 46620652 - 46649356 | F - 25.00% | TRUE | TRUE |
| 6 | 46620652 - 46649356 | | TRUE | TRUE |
| 7 | 148799876 - 148823438 | | TRUE | TRUE |
| 7 | 148799876 - 148823438 | F - 33.33% | TRUE | TRUE |
| 7 | 148799876 - 148823438 | F - 33.33% | TRUE | TRUE |
| 7 | 148799876 - 148823438 | F - 16.67% | TRUE | TRUE |
| 7 | 148799876 - 148823438 | T - 66.67% | TRUE | TRUE |
| 10 | 4621443 - 4720346 | | TRUE | FALSE |
| 10 | 4621443 - 4720346 | F - 20.00% | TRUE | FALSE |
| 10 | 4621443 - 4720346 | F - 20.00% | TRUE | TRUE |
| 10 | 4621443 - 4720346 | | TRUE | TRUE |
| 10 | 4621443 - 4720346 | T - 60.00% | TRUE | TRUE |
| 10 | 4621443 - 4720346 | | FALSE | TRUE |
| 10 | 4621443 - 4720346 | | TRUE | TRUE |
| 10 | 4621443 - 4720346 | F - 20.00% | FALSE | TRUE |
| 11 | 3696240 - 3819022 | | TRUE | TRUE |
| 11 | 3696240 - 3819022 | F - 33.33% | TRUE | TRUE |
| 11 | 3696240 - 3819022 | | TRUE | TRUE |
| 11 | 3696240 - 3819022 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 46576841 - 46663208 | | TRUE | TRUE |
| 12 | 46576841 - 46663208 | F - 7.69% | TRUE | TRUE |
| 14 | 59939335 - 59951148 | | TRUE | TRUE |
| 14 | 59939335 - 59951148 | F - 10.00% | TRUE | TRUE |
| 14 | 59939335 - 59951148 | | FALSE | TRUE |
| 15 | 23435070 - 23448423 | | TRUE | TRUE |
| 15 | 23435070 - 23448423 | F - 20.00% | TRUE | TRUE |
| 15 | 23435070 - 23448423 | T - 60.00% | TRUE | TRUE |
| 16 | 31191431 - 31206192 | T - 57.89% | TRUE | TRUE |
| 16 | 31191431 - 31206192 | | TRUE | FALSE |
| 21 | 32361860 - 32932290 | | TRUE | FALSE |
| 21 | 32361860 - 32932290 | | TRUE | TRUE |
| 21 | 32361860 - 32932290 | T - 69.23% | TRUE | TRUE |
| 21 | 32361860 - 32932290 | | TRUE | TRUE |
| 21 | 32361860 - 32932290 | T - 61.54% | TRUE | TRUE |
| 21 | 32361860 - 32932290 | | TRUE | TRUE |
| 21 | 32361860 - 32932290 | | FALSE | TRUE |
| 21 | 32361860 - 32932290 | | FALSE | TRUE |
| 21 | 32361860 - 32932290 | F - 7.69% | FALSE | TRUE |
| 21 | 32361860 - 32932290 | F - 7.69% | TRUE | TRUE |
| 21 | 32361860 - 32932290 | | FALSE | TRUE |
| 1 | 219347186 - 219386207 | F - 38.89% | TRUE | TRUE |
| 1 | 219347186 - 219386207 | | TRUE | TRUE |
| 1 | 219347186 - 219386207 | | FALSE | TRUE |
| 1 | 219347186 - 219386207 | | FALSE | TRUE |
| 3 | 150264465 - 150303803 | | TRUE | TRUE |
| 3 | 150264465 - 150303803 | T - 58.33% | TRUE | TRUE |
| 3 | 150264465 - 150303803 | F - 25.00% | TRUE | TRUE |
| 3 | 150264465 - 150303803 | T - 50.00% | TRUE | TRUE |
| 3 | 150264465 - 150303803 | | TRUE | TRUE |
| 3 | 173114074 - 174004434 | F - 5.88% | TRUE | FALSE |
| 3 | 173114074 - 174004434 | | FALSE | TRUE |
| 4 | 135117489 - 135122903 | T - 50.00% | TRUE | TRUE |
| 4 | 135117489 - 135122903 | | FALSE | TRUE |
| 5 | 56205087 - 56221359 | | TRUE | FALSE |
| 5 | 56205087 - 56221359 | F - 23.08% | TRUE | TRUE |
| 5 | 56205087 - 56221359 | | TRUE | TRUE |
| 5 | 56205087 - 56221359 | | TRUE | TRUE |
| 5 | 56205087 - 56221359 | F - 23.08% | FALSE | TRUE |
| 5 | 56205087 - 56221359 | | FALSE | TRUE |
| 5 | 139781399 - 139929163 | F - 2.22% | TRUE | FALSE |
| 5 | 139781399 - 139929163 | | TRUE | TRUE |
| 5 | 139781399 - 139929163 | | TRUE | TRUE |
| 5 | 74017029 - 74063196 | | TRUE | TRUE |
| 5 | 74017029 - 74063196 | F - 5.00% | TRUE | FALSE |
| 5 | 74017029 - 74063196 | T - 55.00% | TRUE | TRUE |
| 5 | 33986283 - 34008220 | | TRUE | TRUE |
| 5 | 33986283 - 34008220 | F - 26.67% | TRUE | TRUE |
| 5 | 33986283 - 34008220 | F - 33.33% | TRUE | TRUE |
| 5 | 33986283 - 34008220 | | FALSE | TRUE |
| 6 | 83777385 - 83881069 | | TRUE | TRUE |
| 6 | 83777385 - 83881069 | T - 50.00% | TRUE | TRUE |
| 6 | 83777385 - 83881069 | T - 85.71% | TRUE | TRUE |
| 6 | 83777385 - 83881069 | | FALSE | TRUE |
| 6 | 83777385 - 83881069 | | TRUE | TRUE |
| 6 | 83777385 - 83881069 | | TRUE | TRUE |
| 6 | 83777385 - 83881069 | | FALSE | TRUE |
| 6 | 83777385 - 83881069 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 6 | 83777385 - 83881069 | F - 28.57% | TRUE | TRUE |
| 7 | 120988905 - 121036422 | | TRUE | TRUE |
| 7 | 120988905 - 121036422 | | TRUE | TRUE |
| 7 | 120988905 - 121036422 | F - 9.09% | TRUE | FALSE |
| 9 | 5357967 - 5630071 | | TRUE | TRUE |
| 9 | 5357967 - 5630071 | | TRUE | TRUE |
| 9 | 5357967 - 5630071 | F - 14.29% | TRUE | TRUE |
| 9 | 5357967 - 5630071 | | TRUE | TRUE |
| 9 | 5357967 - 5630071 | | TRUE | TRUE |
| 9 | 99578754 - 99637905 | F - 10.00% | TRUE | TRUE |
| 9 | 99578754 - 99637905 | | TRUE | TRUE |
| 9 | 99578754 - 99637905 | | FALSE | TRUE |
| 11 | 45950870 - 46142985 | | TRUE | TRUE |
| 11 | 45950870 - 46142985 | T - 50.00% | TRUE | TRUE |
| 11 | 45950870 - 46142985 | | TRUE | TRUE |
| 11 | 45950870 - 46142985 | | FALSE | TRUE |
| 11 | 67922330 - 67981295 | F - 40.91% | TRUE | TRUE |
| 11 | 67922330 - 67981295 | | TRUE | TRUE |
| 11 | 67922330 - 67981295 | | TRUE | TRUE |
| 11 | 67922330 - 67981295 | | TRUE | TRUE |
| 11 | 67922330 - 67981295 | | TRUE | TRUE |
| 11 | 116618886 - 116643714 | | TRUE | FALSE |
| 11 | 116618886 - 116643714 | T - 71.43% | FALSE | TRUE |
| 12 | 57910371 - 57914300 | | TRUE | TRUE |
| 12 | 57910371 - 57914300 | | FALSE | TRUE |
| 12 | 57910371 - 57914300 | T - 100.00% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | T - 77.78% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | F - 44.44% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | | TRUE | FALSE |
| 12 | 58191160 - 58210254 | F - 44.44% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | | TRUE | TRUE |
| 12 | 58191160 - 58210254 | T - 66.67% | FALSE | TRUE |
| 12 | 58191160 - 58210254 | T - 66.67% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | F - 11.11% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | | FALSE | TRUE |
| 12 | 58191160 - 58210254 | T - 66.67% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | F - 33.33% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | F - 22.22% | FALSE | TRUE |
| 12 | 58191160 - 58210254 | F - 22.22% | TRUE | TRUE |
| 12 | 58191160 - 58210254 | | TRUE | TRUE |
| 14 | 85996488 - 86095034 | | TRUE | TRUE |
| 14 | 85996488 - 86095034 | F - 11.11% | FALSE | TRUE |
| 14 | 85996488 - 86095034 | F - 11.11% | TRUE | TRUE |
| 15 | 30488239 - 30665668 | | TRUE | FALSE |
| 15 | 30488239 - 30665668 | | TRUE | TRUE |
| 15 | 30488239 - 30665668 | F - 33.33% | TRUE | TRUE |
| 15 | 30488239 - 30665668 | F - 33.33% | TRUE | FALSE |
| 15 | 30488239 - 30665668 | F - 33.33% | TRUE | TRUE |
| 18 | 43563502 - 43652250 | T - 50.00% | TRUE | TRUE |
| 18 | 43563502 - 43652250 | F - 12.50% | TRUE | TRUE |
| 18 | 43563502 - 43652250 | | TRUE | TRUE |
| 20 | 1874813 - 1920543 | T - 100.00% | TRUE | TRUE |
| 20 | 1874813 - 1920543 | F - 8.33% | TRUE | FALSE |
| 20 | 1874813 - 1920543 | | FALSE | TRUE |
| 20 | 1874813 - 1920543 | | TRUE | TRUE |
| 20 | 61447596 - 61472511 | F - 37.50% | TRUE | TRUE |
| 20 | 61447596 - 61472511 | | TRUE | TRUE |
| 20 | 61447596 - 61472511 | F - 18.75% | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 20 | 61447596 - 61472511 | | TRUE | FALSE |
| 20 | 61447596 - 61472511 | | TRUE | TRUE |
| 20 | 61447596 - 61472511 | F - 37.50% | FALSE | TRUE |
| 20 | 61447596 - 61472511 | | FALSE | TRUE |
| 20 | 61447596 - 61472511 | | FALSE | TRUE |
| 21 | 44299754 - 44329783 | F - 12.50% | TRUE | TRUE |
| 21 | 44299754 - 44329783 | | TRUE | TRUE |
| 2 | 197697728 - 197792520 | F - 44.44% | TRUE | TRUE |
| 2 | 197697728 - 197792520 | T - 72.22% | TRUE | TRUE |
| 2 | 197697728 - 197792520 | F - 38.89% | TRUE | TRUE |
| 2 | 197697728 - 197792520 | F - 5.56% | FALSE | TRUE |
| 2 | 197697728 - 197792520 | | TRUE | TRUE |
| 3 | 44956749 - 45017677 | F - 12.50% | TRUE | TRUE |
| 3 | 44956749 - 45017677 | | TRUE | TRUE |
| 5 | 141000443 - 141016437 | | TRUE | FALSE |
| 5 | 141000443 - 141016437 | F - 9.09% | TRUE | TRUE |
| 5 | 141000443 - 141016437 | | TRUE | TRUE |
| 7 | 149535456 - 149564568 | T - 62.50% | TRUE | TRUE |
| 7 | 149535456 - 149564568 | | TRUE | TRUE |
| 7 | 149535456 - 149564568 | | TRUE | TRUE |
| 8 | 133133105 - 133493200 | | TRUE | TRUE |
| 8 | 133133105 - 133493200 | T - 100.00% | TRUE | TRUE |
| 8 | 133133105 - 133493200 | | TRUE | TRUE |
| 8 | 133133105 - 133493200 | F - 22.22% | TRUE | TRUE |
| 8 | 133133105 - 133493200 | T - 55.56% | TRUE | TRUE |
| 8 | 133133105 - 133493200 | | FALSE | TRUE |
| 8 | 133133105 - 133493200 | F - 33.33% | FALSE | TRUE |
| 8 | 133133105 - 133493200 | F - 44.44% | FALSE | TRUE |
| 8 | 133133105 - 133493200 | T - 100.00% | TRUE | TRUE |
| 8 | 133133105 - 133493200 | | FALSE | TRUE |
| 8 | 133133105 - 133493200 | T - 100.00% | FALSE | TRUE |
| 8 | 133133105 - 133493200 | | FALSE | TRUE |
| 8 | 133133105 - 133493200 | T - 55.56% | FALSE | TRUE |
| 11 | 78363876 - 79151695 | | TRUE | FALSE |
| 11 | 78363876 - 79151695 | | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 42.86% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | | TRUE | FALSE |
| 11 | 78363876 - 79151695 | F - 42.86% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 14.29% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 14.29% | TRUE | FALSE |
| 11 | 78363876 - 79151695 | F - 28.57% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 14.29% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 28.57% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 28.57% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | | FALSE | TRUE |
| 11 | 78363876 - 79151695 | | TRUE | TRUE |
| 11 | 78363876 - 79151695 | F - 14.29% | TRUE | TRUE |
| 11 | 78363876 - 79151695 | | FALSE | TRUE |
| 11 | 78363876 - 79151695 | | TRUE | TRUE |
| 12 | 56596288 - 56615753 | | TRUE | TRUE |
| 12 | 56596288 - 56615753 | F - 42.86% | TRUE | TRUE |
| 12 | 56596288 - 56615753 | | TRUE | TRUE |
| 18 | 3412072 - 3459976 | | TRUE | TRUE |
| 18 | 3412072 - 3459976 | F - 14.81% | TRUE | TRUE |
| 18 | 3412072 - 3459976 | F - 7.41% | TRUE | TRUE |
| 18 | 3412072 - 3459976 | F - 7.41% | TRUE | TRUE |
| 19 | 42387267 - 42434296 | | TRUE | FALSE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 19 | 42387267 - 42434296 | | TRUE | TRUE |
| 19 | 42387267 - 42434296 | T - 87.50% | TRUE | TRUE |
| 1 | 64239690 - 64647181 | | TRUE | FALSE |
| 1 | 64239690 - 64647181 | | TRUE | TRUE |
| 1 | 64239690 - 64647181 | T - 75.00% | TRUE | TRUE |
| 1 | 64239690 - 64647181 | | TRUE | TRUE |
| 1 | 64239690 - 64647181 | F - 12.50% | FALSE | TRUE |
| 1 | 64239690 - 64647181 | F - 25.00% | FALSE | TRUE |
| 1 | 64239690 - 64647181 | | TRUE | TRUE |
| 1 | 64239690 - 64647181 | | FALSE | TRUE |
| 1 | 64239690 - 64647181 | T - 50.00% | TRUE | TRUE |
| 1 | 33979609 - 34631443 | | TRUE | FALSE |
| 1 | 33979609 - 34631443 | | TRUE | TRUE |
| 1 | 33979609 - 34631443 | F - 18.18% | TRUE | TRUE |
| 1 | 226033233 - 226070420 | | TRUE | TRUE |
| 1 | 226033233 - 226070420 | F - 25.00% | TRUE | TRUE |
| 2 | 47630108 - 47906510 | | TRUE | TRUE |
| 2 | 47630108 - 47906510 | T - 70.00% | TRUE | TRUE |
| 2 | 47630108 - 47906510 | | TRUE | TRUE |
| 2 | 27805893 - 27845963 | | TRUE | TRUE |
| 2 | 27805893 - 27845963 | F - 12.50% | TRUE | TRUE |
| 3 | 53190025 - 53226733 | F - 9.09% | TRUE | TRUE |
| 3 | 53190025 - 53226733 | | TRUE | TRUE |
| 3 | 53190025 - 53226733 | F - 9.09% | TRUE | TRUE |
| 3 | 53190025 - 53226733 | | FALSE | TRUE |
| 3 | 154741913 - 154901518 | F - 19.05% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | | TRUE | TRUE |
| 3 | 154741913 - 154901518 | | TRUE | FALSE |
| 3 | 154741913 - 154901518 | F - 4.76% | TRUE | FALSE |
| 3 | 154741913 - 154901518 | F - 4.76% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 14.29% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 14.29% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 4.76% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 14.29% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 4.76% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 19.05% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | | TRUE | TRUE |
| 3 | 154741913 - 154901518 | | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 4.76% | FALSE | TRUE |
| 3 | 154741913 - 154901518 | | TRUE | TRUE |
| 3 | 154741913 - 154901518 | F - 9.52% | TRUE | TRUE |
| 3 | 154741913 - 154901518 | | FALSE | TRUE |
| 3 | 178243275 - 178578193 | F - 42.86% | TRUE | TRUE |
| 3 | 178243275 - 178578193 | F - 14.29% | TRUE | TRUE |
| 3 | 178243275 - 178578193 | | TRUE | TRUE |
| 3 | 178243275 - 178578193 | | FALSE | TRUE |
| 4 | 152591656 - 152682175 | | TRUE | TRUE |
| 4 | 152591656 - 152682175 | | TRUE | TRUE |
| 4 | 152591656 - 152682175 | T - 61.11% | TRUE | TRUE |
| 5 | 122424816 - 122523745 | | TRUE | TRUE |
| 5 | 122424816 - 122523745 | F - 33.33% | TRUE | TRUE |
| 5 | 106712590 - 107006596 | F - 42.86% | TRUE | TRUE |
| 5 | 106712590 - 107006596 | F - 28.57% | TRUE | TRUE |
| 5 | 106712590 - 107006596 | T - 57.14% | TRUE | TRUE |
| 5 | 106712590 - 107006596 | | FALSE | TRUE |
| 6 | 36708552 - 36816400 | | TRUE | FALSE |
| 6 | 36708552 - 36816400 | T - 81.82% | TRUE | TRUE |
| 6 | 36708552 - 36816400 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 6 | 149825631 - 149867238 | F - 20.00% | TRUE | TRUE |
| 6 | 149825631 - 149867238 | | TRUE | TRUE |
| 6 | 41032517 - 41040353 | | TRUE | TRUE |
| 6 | 41032517 - 41040353 | F - 5.88% | FALSE | TRUE |
| 6 | 41032517 - 41040353 | F - 11.76% | FALSE | TRUE |
| 6 | 41032517 - 41040353 | F - 5.88% | FALSE | TRUE |
| 6 | 41032517 - 41040353 | | FALSE | TRUE |
| 6 | 41032517 - 41040353 | F - 11.76% | FALSE | TRUE |
| 7 | 150754297 - 150773614 | | TRUE | TRUE |
| 7 | 150754297 - 150773614 | | TRUE | FALSE |
| 7 | 150754297 - 150773614 | F - 3.85% | FALSE | TRUE |
| 10 | 93170096 - 93274586 | | TRUE | FALSE |
| 10 | 93170096 - 93274586 | | TRUE | TRUE |
| 10 | 93170096 - 93274586 | F - 20.00% | TRUE | TRUE |
| 10 | 93170096 - 93274586 | T - 60.00% | TRUE | TRUE |
| 10 | 93170096 - 93274586 | T - 66.67% | TRUE | TRUE |
| 10 | 93170096 - 93274586 | F - 20.00% | TRUE | TRUE |
| 10 | 93170096 - 93274586 | F - 6.67% | TRUE | TRUE |
| 11 | 64590859 - 64612041 | | TRUE | TRUE |
| 11 | 64590859 - 64612041 | T - 60.00% | TRUE | TRUE |
| 11 | 64590859 - 64612041 | | TRUE | TRUE |
| 20 | 33897002 - 34042568 | | TRUE | TRUE |
| 20 | 33897002 - 34042568 | T - 100.00% | TRUE | TRUE |
| 2 | 179059208 - 179541009 | | TRUE | TRUE |
| 2 | 179059208 - 179541009 | | TRUE | FALSE |
| 2 | 179059208 - 179541009 | | TRUE | TRUE |
| 2 | 179059208 - 179541009 | F - 10.53% | FALSE | TRUE |
| 2 | 179059208 - 179541009 | F - 5.26% | TRUE | TRUE |
| 2 | 179059208 - 179541009 | T - 52.63% | TRUE | TRUE |
| 2 | 179059208 - 179541009 | F - 10.53% | TRUE | TRUE |
| 2 | 179059208 - 179541009 | T - 73.68% | TRUE | TRUE |
| 4 | 54325468 - 54567572 | F - 40.00% | TRUE | FALSE |
| 4 | 54325468 - 54567572 | | TRUE | FALSE |
| 4 | 54325468 - 54567572 | | TRUE | TRUE |
| 4 | 54325468 - 54567572 | F - 13.33% | TRUE | TRUE |
| 4 | 54325468 - 54567572 | | TRUE | TRUE |
| 5 | 122680579 - 122759286 | F - 7.69% | TRUE | FALSE |
| 5 | 122680579 - 122759286 | | FALSE | TRUE |
| 5 | 122680579 - 122759286 | F - 15.38% | TRUE | TRUE |
| 5 | 122680579 - 122759286 | | TRUE | TRUE |
| 5 | 122680579 - 122759286 | | TRUE | FALSE |
| 5 | 122680579 - 122759286 | | TRUE | TRUE |
| 5 | 122680579 - 122759286 | | FALSE | TRUE |
| 6 | 39867354 - 39902290 | | TRUE | TRUE |
| 6 | 39867354 - 39902290 | F - 43.75% | TRUE | TRUE |
| 6 | 39867354 - 39902290 | F - 18.75% | TRUE | TRUE |
| 7 | 5346421 - 5465045 | | TRUE | TRUE |
| 7 | 5346421 - 5465045 | | TRUE | TRUE |
| 7 | 5346421 - 5465045 | F - 14.29% | TRUE | TRUE |
| 7 | 5346421 - 5465045 | F - 28.57% | TRUE | TRUE |
| 7 | 100849258 - 100861701 | | TRUE | TRUE |
| 7 | 100849258 - 100861701 | F - 36.84% | TRUE | TRUE |
| 8 | 22547663 - 22656129 | | TRUE | TRUE |
| 8 | 22547663 - 22656129 | F - 33.33% | TRUE | TRUE |
| 9 | 102117622 - 102137510 | | TRUE | FALSE |
| 9 | 102117622 - 102137510 | F - 3.70% | FALSE | TRUE |
| 9 | 102117622 - 102137510 | | TRUE | TRUE |
| 10 | 129705325 - 129884164 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 10 | 129705325 - 129884164 | F - 27.27% | TRUE | TRUE |
| 10 | 129705325 - 129884164 | T - 90.91% | TRUE | TRUE |
| 10 | 129705325 - 129884164 | | TRUE | FALSE |
| 10 | 129705325 - 129884164 | | TRUE | TRUE |
| 10 | 129705325 - 129884164 | | TRUE | TRUE |
| 10 | 129705325 - 129884164 | | TRUE | TRUE |
| 10 | 129705325 - 129884164 | | FALSE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | F - 33.33% | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | FALSE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | FALSE | TRUE |
| 11 | 10594638 - 10715535 | F - 27.78% | TRUE | TRUE |
| 11 | 10594638 - 10715535 | F - 27.78% | TRUE | TRUE |
| 11 | 10594638 - 10715535 | F - 22.22% | TRUE | TRUE |
| 11 | 10594638 - 10715535 | F - 38.89% | FALSE | TRUE |
| 11 | 10594638 - 10715535 | F - 44.44% | FALSE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | F - 33.33% | FALSE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | TRUE | TRUE |
| 11 | 10594638 - 10715535 | | FALSE | TRUE |
| 12 | 52643084 - 52702947 | | TRUE | TRUE |
| 12 | 52643084 - 52702947 | T - 100.00% | FALSE | TRUE |
| 12 | 52643084 - 52702947 | | FALSE | TRUE |
| 12 | 44187526 - 44200178 | | TRUE | TRUE |
| 12 | 44187526 - 44200178 | T - 75.00% | TRUE | TRUE |
| 13 | 51483814 - 51544596 | | TRUE | TRUE |
| 13 | 51483814 - 51544596 | F - 18.18% | FALSE | TRUE |
| 13 | 51483814 - 51544596 | F - 9.09% | TRUE | TRUE |
| 13 | 51483814 - 51544596 | | TRUE | TRUE |
| 13 | 28009776 - 28024739 | | TRUE | TRUE |
| 13 | 28009776 - 28024739 | T - 68.42% | TRUE | TRUE |
| 13 | 28009776 - 28024739 | F - 5.26% | TRUE | TRUE |
| 13 | 28009776 - 28024739 | F - 5.26% | TRUE | TRUE |
| 13 | 28009776 - 28024739 | | TRUE | TRUE |
| 16 | 27561468 - 27791692 | | TRUE | TRUE |
| 16 | 27561468 - 27791692 | T - 50.00% | TRUE | TRUE |
| 17 | 75082798 - 75213183 | F - 6.90% | TRUE | TRUE |
| 17 | 75082798 - 75213183 | F - 3.45% | TRUE | TRUE |
| 17 | 75082798 - 75213183 | | FALSE | TRUE |
| 17 | 75082798 - 75213183 | | TRUE | TRUE |
| 17 | 26880405 - 26898887 | F - 8.33% | TRUE | TRUE |
| 17 | 26880405 - 26898887 | | TRUE | TRUE |
| 17 | 26880405 - 26898887 | F - 16.67% | TRUE | TRUE |
| 17 | 26880405 - 26898887 | F - 25.00% | TRUE | TRUE |
| 17 | 26880405 - 26898887 | F - 8.33% | TRUE | TRUE |
| 1 | 224102741 - 226595801 | T - 53.85% | TRUE | TRUE |
| 1 | 224102741 - 226595801 | | TRUE | TRUE |
| 1 | 224102741 - 226595801 | | TRUE | TRUE |
| 1 | 224102741 - 226595801 | F - 38.46% | TRUE | TRUE |
| 1 | 224102741 - 226595801 | F - 30.77% | TRUE | TRUE |
| 1 | 224102741 - 226595801 | F - 46.15% | TRUE | TRUE |
| 1 | 224102741 - 226595801 | F - 46.15% | TRUE | TRUE |
| 1 | 224102741 - 226595801 | | FALSE | TRUE |
| 1 | 224102741 - 226595801 | F - 38.46% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 224102741 - 226595801 | F - 46.15% | TRUE | TRUE |
| 2 | 10443015 - 10567743 | | TRUE | TRUE |
| 2 | 10443015 - 10567743 | | TRUE | TRUE |
| 2 | 10443015 - 10567743 | T - 54.55% | TRUE | TRUE |
| 2 | 242641450 - 242668896 | | TRUE | TRUE |
| 2 | 242641450 - 242668896 | F - 7.14% | TRUE | TRUE |
| 3 | 42642106 - 42690233 | | TRUE | FALSE |
| 3 | 42642106 - 42690233 | | TRUE | TRUE |
| 3 | 42642106 - 42690233 | | TRUE | TRUE |
| 3 | 42642106 - 42690233 | F - 25.93% | TRUE | TRUE |
| 3 | 42642106 - 42690233 | | FALSE | TRUE |
| 3 | 71728440 - 71803924 | F - 12.50% | TRUE | TRUE |
| 3 | 71728440 - 71803924 | F - 18.75% | TRUE | TRUE |
| 3 | 71728440 - 71803924 | F - 18.75% | TRUE | TRUE |
| 3 | 71728440 - 71803924 | | TRUE | TRUE |
| 3 | 168801287 - 169381563 | | TRUE | FALSE |
| 3 | 168801287 - 169381563 | | TRUE | TRUE |
| 3 | 168801287 - 169381563 | T - 75.76% | TRUE | FALSE |
| 3 | 168801287 - 169381563 | T - 72.73% | TRUE | FALSE |
| 3 | 168801287 - 169381563 | F - 12.12% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | F - 33.33% | FALSE | TRUE |
| 3 | 168801287 - 169381563 | T - 51.52% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | | TRUE | TRUE |
| 3 | 168801287 - 169381563 | F - 3.03% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | | FALSE | TRUE |
| 3 | 168801287 - 169381563 | F - 24.24% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | F - 9.09% | FALSE | TRUE |
| 3 | 168801287 - 169381563 | F - 18.18% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | | FALSE | TRUE |
| 3 | 168801287 - 169381563 | F - 21.21% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | F - 3.03% | TRUE | TRUE |
| 3 | 168801287 - 169381563 | | FALSE | TRUE |
| 3 | 168801287 - 169381563 | | FALSE | TRUE |
| 5 | 68856032 - 68890550 | F - 8.33% | TRUE | TRUE |
| 5 | 68856032 - 68890550 | | TRUE | FALSE |
| 5 | 68856032 - 68890550 | F - 20.83% | TRUE | TRUE |
| 5 | 68856032 - 68890550 | F - 4.17% | TRUE | TRUE |
| 5 | 68856032 - 68890550 | | FALSE | TRUE |
| 5 | 42799982 - 42887494 | F - 4.35% | TRUE | TRUE |
| 5 | 42799982 - 42887494 | | TRUE | TRUE |
| 5 | 42799982 - 42887494 | F - 17.39% | TRUE | TRUE |
| 5 | 42799982 - 42887494 | | TRUE | TRUE |
| 5 | 42799982 - 42887494 | F - 4.35% | TRUE | TRUE |
| 5 | 42799982 - 42887494 | F - 13.04% | TRUE | TRUE |
| 5 | 42799982 - 42887494 | F - 4.35% | FALSE | TRUE |
| 5 | 42799982 - 42887494 | | TRUE | TRUE |
| 6 | 4115923 - 4135831 | | TRUE | FALSE |
| 6 | 4115923 - 4135831 | F - 8.70% | TRUE | TRUE |
| 7 | 1199662 - 1205594 | F - 20.00% | TRUE | TRUE |
| 7 | 1199662 - 1205594 | | FALSE | TRUE |
| 7 | 1199662 - 1205594 | | TRUE | TRUE |
| 9 | 111899167 - 111929571 | T - 100.00% | TRUE | TRUE |
| 9 | 111899167 - 111929571 | | FALSE | TRUE |
| 9 | 116135698 - 116139279 | F - 28.57% | TRUE | TRUE |
| 9 | 116135698 - 116139279 | | TRUE | TRUE |
| 14 | 51186481 - 51297848 | | TRUE | FALSE |
| 14 | 51186481 - 51297848 | F - 3.57% | TRUE | TRUE |
| 14 | 51186481 - 51297848 | | TRUE | TRUE |

| | | | | |
|--------------|-----------------------|------------|-------|-------|
| 15 | 79213400 - 79237433 | F - 12.50% | TRUE | TRUE |
| 15 | 79213400 - 79237433 | | TRUE | TRUE |
| 15 | 79213400 - 79237433 | | TRUE | TRUE |
| 15 | 79213400 - 79237433 | | TRUE | TRUE |
| 15 | 79213400 - 79237433 | | FALSE | TRUE |
| 15 | 79213400 - 79237433 | T - 87.50% | TRUE | TRUE |
| 17_ctg5_hap1 | 391583 - 1247954 | F - 11.11% | TRUE | TRUE |
| 17_ctg5_hap1 | 391583 - 1247954 | | TRUE | FALSE |
| 17_ctg5_hap1 | 391583 - 1247954 | | TRUE | TRUE |
| 17_ctg5_hap1 | 391583 - 1247954 | F - 22.22% | TRUE | TRUE |
| 20 | 36120874 - 36156333 | | TRUE | TRUE |
| 20 | 36120874 - 36156333 | | TRUE | TRUE |
| 20 | 36120874 - 36156333 | F - 5.26% | TRUE | FALSE |
| 6_dbb_hap3 | 2993299 - 3018210 | F - 43.59% | TRUE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | TRUE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | TRUE | FALSE |
| 6_dbb_hap3 | 2993299 - 3018210 | | TRUE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | TRUE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | FALSE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | FALSE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | FALSE | TRUE |
| 6_dbb_hap3 | 2993299 - 3018210 | | FALSE | TRUE |
| 6_mann_hap4 | 2931334 - 2948438 | F - 5.26% | TRUE | TRUE |
| 6_mann_hap4 | 2931334 - 2948438 | F - 47.37% | TRUE | TRUE |
| 6_mann_hap4 | 2931334 - 2948438 | | TRUE | TRUE |
| 6_mann_hap4 | 2931334 - 2948438 | F - 5.26% | TRUE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | F - 43.59% | TRUE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | TRUE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | TRUE | FALSE |
| 6_mcf_hap5 | 3087409 - 3112325 | | TRUE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | TRUE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | FALSE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | FALSE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | FALSE | TRUE |
| 6_mcf_hap5 | 3087409 - 3112325 | | FALSE | TRUE |
| 6_ssto_hap7 | 4868093 - 4901710 | | TRUE | TRUE |
| 6_ssto_hap7 | 4868093 - 4901710 | F - 9.09% | TRUE | TRUE |
| 6_ssto_hap7 | 4868093 - 4901710 | | TRUE | TRUE |
| 2 | 202098166 - 202152434 | | TRUE | TRUE |
| 2 | 202098166 - 202152434 | F - 2.33% | TRUE | FALSE |
| 2 | 202098166 - 202152434 | T - 86.05% | FALSE | TRUE |
| 2 | 74443369 - 74570541 | | TRUE | FALSE |
| 2 | 74443369 - 74570541 | T - 60.00% | TRUE | TRUE |
| 11 | 71709587 - 71716761 | F - 7.14% | TRUE | TRUE |
| 11 | 71709587 - 71716761 | F - 10.71% | TRUE | TRUE |
| 11 | 71709587 - 71716761 | | FALSE | TRUE |
| 11 | 74699179 - 74729938 | | FALSE | TRUE |
| 11 | 74699179 - 74729938 | F - 7.69% | TRUE | TRUE |
| 11 | 74699179 - 74729938 | F - 7.69% | TRUE | TRUE |
| 11 | 74699179 - 74729938 | | TRUE | TRUE |
| 12 | 53720360 - 53730166 | | TRUE | FALSE |
| 12 | 53720360 - 53730166 | T - 71.43% | TRUE | TRUE |
| 12 | 53720360 - 53730166 | F - 14.29% | TRUE | TRUE |
| 12 | 53720360 - 53730166 | F - 28.57% | TRUE | TRUE |
| 12 | 53720360 - 53730166 | | FALSE | TRUE |
| 12 | 122715292 - 122751068 | T - 80.00% | TRUE | TRUE |
| 12 | 122715292 - 122751068 | F - 20.00% | TRUE | TRUE |
| 12 | 122715292 - 122751068 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 122715292 - 122751068 | | TRUE | TRUE |
| 12 | 122715292 - 122751068 | | FALSE | TRUE |
| 13 | 26828276 - 26979375 | F - 23.08% | TRUE | TRUE |
| 13 | 26828276 - 26979375 | | FALSE | TRUE |
| 14 | 24674903 - 24677454 | | TRUE | TRUE |
| 14 | 24674903 - 24677454 | T - 60.00% | TRUE | TRUE |
| 14 | 24674903 - 24677454 | T - 80.00% | TRUE | TRUE |
| 15 | 84977316 - 84980581 | | TRUE | TRUE |
| 15 | 84977316 - 84980581 | T - 100.00% | TRUE | TRUE |
| 19 | 18170371 - 18209626 | T - 100.00% | TRUE | FALSE |
| 19 | 18170371 - 18209626 | | TRUE | TRUE |
| 2 | 130724165 - 130738045 | | TRUE | TRUE |
| 2 | 130724165 - 130738045 | T - 100.00% | TRUE | TRUE |
| 3 | 23986751 - 24022109 | | TRUE | FALSE |
| 3 | 23986751 - 24022109 | | TRUE | TRUE |
| 3 | 23986751 - 24022109 | T - 54.55% | TRUE | TRUE |
| 3 | 183415606 - 183530413 | F - 30.00% | TRUE | TRUE |
| 3 | 183415606 - 183530413 | F - 10.00% | TRUE | TRUE |
| 3 | 183415606 - 183530413 | | FALSE | TRUE |
| 3 | 183415606 - 183530413 | | TRUE | TRUE |
| 3 | 183415606 - 183530413 | | TRUE | TRUE |
| 3 | 183415606 - 183530413 | | TRUE | TRUE |
| 5 | 78073032 - 78282357 | F - 25.00% | TRUE | TRUE |
| 5 | 78073032 - 78282357 | | TRUE | TRUE |
| 5 | 78073032 - 78282357 | F - 25.00% | TRUE | TRUE |
| 5 | 78073032 - 78282357 | | TRUE | TRUE |
| 5 | 78073032 - 78282357 | F - 37.50% | FALSE | TRUE |
| 5 | 78073032 - 78282357 | F - 25.00% | TRUE | TRUE |
| 6 | 80713604 - 80752244 | | TRUE | FALSE |
| 6 | 80713604 - 80752244 | | TRUE | TRUE |
| 6 | 80713604 - 80752244 | F - 46.15% | TRUE | TRUE |
| 7 | 154720208 - 154741618 | | TRUE | FALSE |
| 7 | 154720208 - 154741618 | F - 40.00% | TRUE | FALSE |
| 7 | 154720208 - 154741618 | F - 40.00% | TRUE | TRUE |
| 8 | 103876528 - 103990104 | F - 12.50% | TRUE | FALSE |
| 8 | 103876528 - 103990104 | | TRUE | TRUE |
| 8 | 103876528 - 103990104 | | FALSE | TRUE |
| 8 | 103876528 - 103990104 | F - 25.00% | TRUE | TRUE |
| 8 | 103876528 - 103990104 | F - 31.25% | TRUE | TRUE |
| 8 | 103876528 - 103990104 | F - 31.25% | TRUE | TRUE |
| 8 | 103876528 - 103990104 | F - 6.25% | TRUE | TRUE |
| 9 | 35696945 - 35732392 | F - 8.33% | TRUE | TRUE |
| 9 | 35696945 - 35732392 | F - 8.33% | TRUE | TRUE |
| 9 | 35696945 - 35732392 | | TRUE | TRUE |
| X | 152683781 - 152687086 | T - 50.00% | TRUE | TRUE |
| X | 152683781 - 152687086 | | FALSE | TRUE |
| X | 152683781 - 152687086 | | FALSE | TRUE |
| X | 152683781 - 152687086 | T - 100.00% | FALSE | TRUE |
| 10 | 94590935 - 94819251 | F - 29.41% | TRUE | FALSE |
| 10 | 94590935 - 94819251 | | TRUE | FALSE |
| 10 | 94590935 - 94819251 | T - 82.35% | TRUE | TRUE |
| 10 | 94590935 - 94819251 | | FALSE | TRUE |
| 11 | 71576555 - 71639700 | | TRUE | FALSE |
| 11 | 71576555 - 71639700 | F - 28.57% | TRUE | TRUE |
| 13 | 108903588 - 108960832 | | TRUE | TRUE |
| 13 | 108903588 - 108960832 | T - 80.00% | TRUE | TRUE |
| 13 | 108903588 - 108960832 | | FALSE | TRUE |
| 13 | 36801179 - 36871992 | | TRUE | FALSE |
| 13 | 36801179 - 36871992 | | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 13 | 36801179 - 36871992 | F - 25.00% | TRUE | TRUE |
| 13 | 36801179 - 36871992 | F - 20.83% | TRUE | TRUE |
| 13 | 36801179 - 36871992 | | TRUE | TRUE |
| 13 | 36801179 - 36871992 | | TRUE | TRUE |
| 15 | 83776159 - 83806111 | | TRUE | TRUE |
| 15 | 83776159 - 83806111 | T - 88.89% | TRUE | TRUE |
| 15 | 83776159 - 83806111 | F - 11.11% | FALSE | TRUE |
| 17 | 41363894 - 41371957 | F - 45.45% | TRUE | TRUE |
| 17 | 41363894 - 41371957 | | TRUE | TRUE |
| 17 | 41363894 - 41371957 | | TRUE | TRUE |
| 17 | 41363894 - 41371957 | | FALSE | TRUE |
| 17 | 41363894 - 41371957 | | TRUE | TRUE |
| 17 | 41363894 - 41371957 | | FALSE | TRUE |
| 17 | 41363894 - 41371957 | | TRUE | TRUE |
| 19 | 2977444 - 2995182 | T - 81.25% | TRUE | TRUE |
| 19 | 2977444 - 2995182 | T - 56.25% | TRUE | TRUE |
| 19 | 2977444 - 2995182 | | TRUE | FALSE |
| 20 | 32077881 - 32237842 | | TRUE | FALSE |
| 20 | 32077881 - 32237842 | T - 76.19% | TRUE | TRUE |
| 6_mann_hap4 | 1887225 - 1913029 | F - 8.33% | TRUE | TRUE |
| 6_mann_hap4 | 1887225 - 1913029 | | TRUE | TRUE |
| 6_mann_hap4 | 1887225 - 1913029 | F - 41.67% | TRUE | FALSE |
| 6_mcf_hap5 | 1921007 - 1946811 | F - 8.33% | TRUE | TRUE |
| 6_mcf_hap5 | 1921007 - 1946811 | | TRUE | TRUE |
| 6_mcf_hap5 | 1921007 - 1946811 | F - 41.67% | TRUE | FALSE |
| 2 | 118846028 - 118868573 | F - 9.09% | TRUE | TRUE |
| 2 | 118846028 - 118868573 | T - 63.64% | TRUE | TRUE |
| 2 | 118846028 - 118868573 | | TRUE | TRUE |
| 2 | 118846028 - 118868573 | | TRUE | TRUE |
| 2 | 118846028 - 118868573 | | FALSE | TRUE |
| 3 | 142442916 - 142526730 | | TRUE | TRUE |
| 3 | 142442916 - 142526730 | F - 30.00% | TRUE | TRUE |
| 5 | 131705401 - 131731306 | | TRUE | FALSE |
| 5 | 131705401 - 131731306 | F - 15.38% | TRUE | TRUE |
| 5 | 131705401 - 131731306 | | TRUE | TRUE |
| 5 | 131705401 - 131731306 | | TRUE | TRUE |
| 5 | 131705401 - 131731306 | T - 61.54% | TRUE | TRUE |
| 5 | 131705401 - 131731306 | | TRUE | TRUE |
| 5 | 177557997 - 177577566 | | TRUE | FALSE |
| 5 | 177557997 - 177577566 | F - 17.65% | TRUE | TRUE |
| 6 | 29570005 - 29601753 | | TRUE | TRUE |
| 6 | 29570005 - 29601753 | F - 3.57% | TRUE | FALSE |
| 6 | 29570005 - 29601753 | | TRUE | TRUE |
| 7 | 151038785 - 151075548 | | TRUE | TRUE |
| 7 | 151038785 - 151075548 | F - 10.00% | TRUE | TRUE |
| 11 | 1940792 - 1959936 | | TRUE | TRUE |
| 11 | 1940792 - 1959936 | F - 3.03% | TRUE | TRUE |
| 11 | 1940792 - 1959936 | | FALSE | TRUE |
| 11 | 1940792 - 1959936 | | FALSE | TRUE |
| 11 | 1940792 - 1959936 | | TRUE | TRUE |
| 11 | 63606400 - 63678492 | | TRUE | FALSE |
| 11 | 63606400 - 63678492 | | TRUE | TRUE |
| 11 | 63606400 - 63678492 | T - 92.86% | TRUE | TRUE |
| 11 | 63606400 - 63678492 | | TRUE | TRUE |
| 12 | 673462 - 772945 | | TRUE | TRUE |
| 12 | 673462 - 772945 | T - 87.50% | TRUE | TRUE |
| 12 | 673462 - 772945 | T - 87.50% | TRUE | TRUE |
| 12 | 673462 - 772945 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 673462 - 772945 | F - 12.50% | TRUE | TRUE |
| 12 | 673462 - 772945 | T - 50.00% | TRUE | TRUE |
| 12 | 673462 - 772945 | F - 37.50% | FALSE | TRUE |
| 12 | 673462 - 772945 | F - 25.00% | TRUE | TRUE |
| 12 | 673462 - 772945 | F - 25.00% | FALSE | TRUE |
| 12 | 6802957 - 6810009 | | TRUE | TRUE |
| 12 | 6802957 - 6810009 | T - 88.89% | TRUE | TRUE |
| 12 | 6802957 - 6810009 | F - 22.22% | TRUE | TRUE |
| 12 | 6802957 - 6810009 | T - 88.89% | TRUE | TRUE |
| 12 | 6802957 - 6810009 | | FALSE | TRUE |
| 12 | 6802957 - 6810009 | | FALSE | TRUE |
| 13 | 113862552 - 113919399 | F - 18.75% | TRUE | TRUE |
| 13 | 113862552 - 113919399 | | TRUE | TRUE |
| 13 | 113862552 - 113919399 | | TRUE | TRUE |
| 14 | 59655398 - 59838123 | T - 58.33% | TRUE | TRUE |
| 14 | 59655398 - 59838123 | | FALSE | TRUE |
| 14 | 59655398 - 59838123 | | TRUE | TRUE |
| 15 | 30864758 - 30892918 | | TRUE | TRUE |
| 15 | 30864758 - 30892918 | | TRUE | TRUE |
| 15 | 30864758 - 30892918 | T - 75.00% | TRUE | TRUE |
| 15 | 30864758 - 30892918 | F - 25.00% | TRUE | TRUE |
| 15 | 74900713 - 74922542 | F - 42.86% | TRUE | TRUE |
| 15 | 74900713 - 74922542 | F - 7.14% | FALSE | TRUE |
| 15 | 74900713 - 74922542 | F - 14.29% | TRUE | TRUE |
| 15 | 74900713 - 74922542 | F - 28.57% | TRUE | TRUE |
| 15 | 74900713 - 74922542 | | TRUE | TRUE |
| 19 | 43370613 - 43383871 | | TRUE | TRUE |
| 19 | 43370613 - 43383871 | T - 100.00% | TRUE | TRUE |
| 19 | 43370613 - 43383871 | | TRUE | TRUE |
| 19 | 43370613 - 43383871 | | TRUE | TRUE |
| 19 | 43370613 - 43383871 | | FALSE | TRUE |
| 20 | 11871371 - 11907257 | F - 20.00% | TRUE | TRUE |
| 20 | 11871371 - 11907257 | | TRUE | TRUE |
| 1 | 65210778 - 65298915 | F - 42.86% | TRUE | TRUE |
| 1 | 65210778 - 65298915 | | FALSE | TRUE |
| 1 | 169890467 - 170054349 | | TRUE | FALSE |
| 1 | 169890467 - 170054349 | F - 7.69% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | FALSE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | FALSE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | T - 50.00% | TRUE | FALSE |
| 2 | 216476286 - 216708445 | F - 33.33% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | FALSE |
| 2 | 216476286 - 216708445 | F - 33.33% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | FALSE |
| 2 | 216476286 - 216708445 | | TRUE | FALSE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | FALSE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 33.33% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 33.33% | FALSE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 33.33% | FALSE | TRUE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 16.67% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 2 | 216476286 - 216708445 | | TRUE | TRUE |
| 2 | 216476286 - 216708445 | F - 33.33% | FALSE | TRUE |
| 2 | 216476286 - 216708445 | | TRUE | TRUE |
| 3 | 11178779 - 11305243 | | TRUE | FALSE |
| 3 | 11178779 - 11305243 | F - 22.22% | TRUE | TRUE |
| 3 | 11178779 - 11305243 | | TRUE | TRUE |
| 3 | 25215823 - 25639423 | | TRUE | TRUE |
| 3 | 25215823 - 25639423 | T - 75.00% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | | TRUE | TRUE |
| 3 | 25215823 - 25639423 | T - 62.50% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | F - 31.25% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | F - 43.75% | TRUE | FALSE |
| 3 | 25215823 - 25639423 | F - 12.50% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | | TRUE | TRUE |
| 3 | 25215823 - 25639423 | F - 25.00% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | | TRUE | TRUE |
| 3 | 25215823 - 25639423 | | TRUE | FALSE |
| 3 | 25215823 - 25639423 | | TRUE | TRUE |
| 3 | 25215823 - 25639423 | F - 12.50% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | F - 25.00% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | F - 6.25% | FALSE | TRUE |
| 3 | 25215823 - 25639423 | F - 6.25% | TRUE | TRUE |
| 3 | 25215823 - 25639423 | | TRUE | TRUE |
| 3 | 183903811 - 183911800 | F - 16.67% | TRUE | TRUE |
| 3 | 183903811 - 183911800 | F - 12.50% | TRUE | TRUE |
| 3 | 183903811 - 183911800 | | TRUE | TRUE |
| 3 | 52846991 - 52864755 | | TRUE | FALSE |
| 3 | 52846991 - 52864755 | | TRUE | FALSE |
| 3 | 52846991 - 52864755 | T - 65.22% | TRUE | TRUE |
| 3 | 52846991 - 52864755 | | FALSE | TRUE |
| 3 | 52846991 - 52864755 | | TRUE | TRUE |
| 4 | 166794410 - 167025609 | | TRUE | FALSE |
| 4 | 166794410 - 167025609 | T - 81.82% | TRUE | TRUE |
| 4 | 166794410 - 167025609 | | TRUE | TRUE |
| 4 | 166794410 - 167025609 | F - 18.18% | FALSE | TRUE |
| 5 | 130506503 - 130541119 | | TRUE | TRUE |
| 5 | 130506503 - 130541119 | F - 28.57% | TRUE | FALSE |
| 5 | 130506503 - 130541119 | F - 14.29% | TRUE | TRUE |
| 6 | 41762107 - 41863099 | | TRUE | TRUE |
| 6 | 41762107 - 41863099 | | TRUE | TRUE |
| 6 | 41762107 - 41863099 | T - 77.78% | TRUE | TRUE |
| 7 | 30067020 - 30170096 | | TRUE | FALSE |
| 7 | 30067020 - 30170096 | T - 83.33% | TRUE | TRUE |
| 7 | 30067020 - 30170096 | T - 83.33% | TRUE | TRUE |
| 7 | 30067020 - 30170096 | F - 8.33% | TRUE | TRUE |
| 7 | 157128075 - 157210133 | F - 6.67% | TRUE | TRUE |
| 7 | 157128075 - 157210133 | | TRUE | TRUE |
| 7 | 157128075 - 157210133 | F - 6.67% | TRUE | TRUE |
| 7 | 157128075 - 157210133 | | TRUE | TRUE |
| 7 | 157128075 - 157210133 | F - 6.67% | FALSE | TRUE |
| 8 | 81540686 - 81787016 | F - 14.29% | TRUE | TRUE |
| 8 | 81540686 - 81787016 | F - 14.29% | TRUE | TRUE |
| 8 | 81540686 - 81787016 | F - 28.57% | TRUE | TRUE |
| 8 | 81540686 - 81787016 | | TRUE | TRUE |
| 8 | 81540686 - 81787016 | T - 57.14% | TRUE | TRUE |
| 9 | 121038 - 188979 | | TRUE | TRUE |
| 9 | 121038 - 188979 | | TRUE | TRUE |
| 9 | 121038 - 188979 | | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|-------------|-------|-------|
| | 9 | 121038 - 188979 | | TRUE | TRUE |
| | 9 | 121038 - 188979 | F - 6.45% | FALSE | TRUE |
| | 9 | 121038 - 188979 | F - 3.23% | TRUE | TRUE |
| | 9 | 121038 - 188979 | F - 3.23% | TRUE | TRUE |
| | 9 | 121038 - 188979 | T - 51.61% | TRUE | TRUE |
| | 9 | 121038 - 188979 | F - 9.68% | TRUE | TRUE |
| | 9 | 121038 - 188979 | F - 3.23% | FALSE | TRUE |
| | 9 | 14081842 - 14398982 | F - 18.75% | TRUE | TRUE |
| | 9 | 14081842 - 14398982 | | TRUE | TRUE |
| X | | 2609220 - 2659350 | F - 6.67% | TRUE | TRUE |
| X | | 2609220 - 2659350 | | TRUE | TRUE |
| X | | 2609220 - 2659350 | | FALSE | TRUE |
| | 12 | 123942188 - 123957701 | | TRUE | FALSE |
| | 12 | 123942188 - 123957701 | T - 50.00% | TRUE | TRUE |
| | 12 | 123942188 - 123957701 | | TRUE | TRUE |
| | 12 | 123942188 - 123957701 | | FALSE | TRUE |
| | 12 | 123942188 - 123957701 | F - 21.43% | FALSE | TRUE |
| | 12 | 15034115 - 15038860 | | TRUE | TRUE |
| | 12 | 15034115 - 15038860 | | TRUE | TRUE |
| | 12 | 15034115 - 15038860 | F - 28.57% | FALSE | TRUE |
| | 13 | 43460524 - 43566385 | T - 80.00% | TRUE | TRUE |
| | 13 | 43460524 - 43566385 | | TRUE | TRUE |
| | 15 | 23599895 - 23613471 | | TRUE | TRUE |
| | 15 | 23599895 - 23613471 | F - 33.33% | TRUE | TRUE |
| | 15 | 23599895 - 23613471 | | TRUE | TRUE |
| | 16 | 31117428 - 31124112 | | FALSE | TRUE |
| | 16 | 31117428 - 31124112 | T - 54.55% | TRUE | TRUE |
| | 16 | 31117428 - 31124112 | F - 9.09% | FALSE | TRUE |
| | 16 | 31117428 - 31124112 | T - 100.00% | TRUE | TRUE |
| | 19 | 40736224 - 40791302 | | TRUE | TRUE |
| | 19 | 40736224 - 40791302 | F - 2.94% | TRUE | TRUE |
| | 19 | 40736224 - 40791302 | F - 8.82% | FALSE | TRUE |
| | 20 | 34108570 - 34117481 | F - 22.22% | TRUE | FALSE |
| | 20 | 34108570 - 34117481 | | TRUE | FALSE |
| | 21 | 38445526 - 38575413 | | TRUE | TRUE |
| | 21 | 38445526 - 38575413 | F - 2.86% | TRUE | TRUE |
| | 21 | 38445526 - 38575413 | | TRUE | TRUE |
| | 21 | 38445526 - 38575413 | | TRUE | TRUE |
| | 21 | 38445526 - 38575413 | | TRUE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | F - 38.71% | TRUE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | | TRUE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | | TRUE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | | FALSE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | | FALSE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | | FALSE | TRUE |
| 6_apd_hap1 | | 3037483 - 3047379 | | FALSE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | F - 43.59% | TRUE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | TRUE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | TRUE | FALSE |
| 6_cox_hap2 | | 3217334 - 3242215 | | TRUE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | TRUE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | FALSE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | FALSE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | FALSE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | FALSE | TRUE |
| 6_cox_hap2 | | 3217334 - 3242215 | | FALSE | TRUE |
| 6_dbb_hap3 | | 2874022 - 2891126 | F - 5.26% | TRUE | TRUE |
| 6_dbb_hap3 | | 2874022 - 2891126 | F - 47.37% | TRUE | TRUE |
| 6_dbb_hap3 | | 2874022 - 2891126 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|------------|-------|-------|
| 6_dbb_hap3 | 2874022 - 2891126 | F - 5.26% | TRUE | TRUE |
| 1 | 145438462 - 145442635 | | TRUE | TRUE |
| 1 | 145438462 - 145442635 | F - 22.22% | TRUE | TRUE |
| 1 | 145438462 - 145442635 | F - 11.11% | FALSE | TRUE |
| 1 | 145438462 - 145442635 | F - 22.22% | TRUE | TRUE |
| 1 | 145438462 - 145442635 | F - 11.11% | TRUE | TRUE |
| 1 | 164524821 - 164854300 | F - 12.00% | TRUE | TRUE |
| 1 | 164524821 - 164854300 | F - 4.00% | TRUE | TRUE |
| 1 | 164524821 - 164854300 | F - 4.00% | FALSE | TRUE |
| 1 | 164524821 - 164854300 | | FALSE | TRUE |
| 1 | 164524821 - 164854300 | | FALSE | TRUE |
| 1 | 11166588 - 11322608 | F - 45.45% | TRUE | TRUE |
| 1 | 11166588 - 11322608 | F - 9.09% | TRUE | TRUE |
| 1 | 11166588 - 11322608 | F - 36.36% | TRUE | TRUE |
| 1 | 11166588 - 11322608 | F - 9.09% | TRUE | TRUE |
| 1 | 11166588 - 11322608 | | TRUE | TRUE |
| 1 | 11166588 - 11322608 | F - 9.09% | TRUE | TRUE |
| 1 | 11166588 - 11322608 | F - 9.09% | FALSE | TRUE |
| 1 | 93727743 - 93811582 | | TRUE | FALSE |
| 1 | 93727743 - 93811582 | | TRUE | TRUE |
| 1 | 93727743 - 93811582 | F - 8.00% | FALSE | TRUE |
| 1 | 93727743 - 93811582 | F - 12.00% | TRUE | TRUE |
| 1 | 93727743 - 93811582 | | FALSE | TRUE |
| 1 | 153533584 - 153540366 | | TRUE | TRUE |
| 1 | 153533584 - 153540366 | | TRUE | TRUE |
| 1 | 153533584 - 153540366 | | FALSE | TRUE |
| 1 | 153533584 - 153540366 | F - 11.11% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | | TRUE | TRUE |
| 2 | 189839046 - 189877472 | | TRUE | TRUE |
| 2 | 189839046 - 189877472 | F - 20.00% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | F - 10.00% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | | TRUE | TRUE |
| 2 | 189839046 - 189877472 | F - 40.00% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | F - 40.00% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | F - 10.00% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | | TRUE | FALSE |
| 2 | 189839046 - 189877472 | F - 40.00% | TRUE | TRUE |
| 2 | 189839046 - 189877472 | | TRUE | TRUE |
| 2 | 189839046 - 189877472 | F - 10.00% | TRUE | TRUE |
| 2 | 210288771 - 210598842 | F - 12.00% | TRUE | TRUE |
| 2 | 210288771 - 210598842 | | TRUE | TRUE |
| 2 | 210288771 - 210598842 | | TRUE | FALSE |
| 2 | 210288771 - 210598842 | F - 8.00% | TRUE | TRUE |
| 2 | 210288771 - 210598842 | | TRUE | TRUE |
| 2 | 210288771 - 210598842 | | TRUE | TRUE |
| 2 | 210288771 - 210598842 | | TRUE | TRUE |
| 2 | 210288771 - 210598842 | | FALSE | TRUE |
| 2 | 210288771 - 210598842 | | TRUE | TRUE |
| 3 | 194207869 - 194239008 | | TRUE | TRUE |
| 3 | 194207869 - 194239008 | T - 60.00% | TRUE | TRUE |
| 3 | 194207869 - 194239008 | F - 20.00% | TRUE | TRUE |
| 3 | 38048987 - 38071253 | F - 7.69% | TRUE | TRUE |
| 3 | 38048987 - 38071253 | F - 7.69% | TRUE | TRUE |
| 3 | 38048987 - 38071253 | F - 7.69% | FALSE | TRUE |
| 3 | 38048987 - 38071253 | F - 30.77% | FALSE | TRUE |
| 3 | 38048987 - 38071253 | F - 7.69% | TRUE | TRUE |
| 3 | 38048987 - 38071253 | F - 7.69% | TRUE | TRUE |
| 3 | 38048987 - 38071253 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 3 | 38048987 - 38071253 | | FALSE | TRUE |
| 3 | 195415518 - 195438746 | | TRUE | TRUE |
| 3 | 195415518 - 195438746 | | TRUE | TRUE |
| 3 | 195415518 - 195438746 | F - 30.77% | TRUE | TRUE |
| 4 | 6783102 - 6885899 | | TRUE | TRUE |
| 4 | 6783102 - 6885899 | F - 14.29% | TRUE | TRUE |
| 4 | 6783102 - 6885899 | | TRUE | TRUE |
| 4 | 6783102 - 6885899 | | FALSE | TRUE |
| 4 | 154073494 - 154260474 | | TRUE | TRUE |
| 4 | 154073494 - 154260474 | F - 20.00% | TRUE | TRUE |
| 4 | 154073494 - 154260474 | F - 13.33% | FALSE | TRUE |
| 4 | 154073494 - 154260474 | F - 6.67% | FALSE | TRUE |
| 4 | 154073494 - 154260474 | | TRUE | TRUE |
| 4 | 154073494 - 154260474 | F - 46.67% | TRUE | TRUE |
| 4 | 154073494 - 154260474 | | FALSE | TRUE |
| 4 | 154073494 - 154260474 | | FALSE | TRUE |
| 5 | 142657496 - 142815077 | F - 6.45% | TRUE | TRUE |
| 5 | 142657496 - 142815077 | | TRUE | FALSE |
| 5 | 142657496 - 142815077 | F - 3.23% | TRUE | TRUE |
| 6 | 31707725 - 31732628 | F - 45.83% | TRUE | TRUE |
| 6 | 31707725 - 31732628 | | TRUE | TRUE |
| 6 | 31707725 - 31732628 | | TRUE | FALSE |
| 6 | 31707725 - 31732628 | | TRUE | TRUE |
| 6 | 31707725 - 31732628 | | TRUE | TRUE |
| 6 | 31707725 - 31732628 | | FALSE | TRUE |
| 6 | 31707725 - 31732628 | | FALSE | TRUE |
| 6 | 31707725 - 31732628 | | FALSE | TRUE |
| 6 | 31707725 - 31732628 | | FALSE | TRUE |
| 10 | 5454514 - 5500426 | T - 50.00% | TRUE | TRUE |
| 10 | 5454514 - 5500426 | | TRUE | TRUE |
| 10 | 5454514 - 5500426 | F - 35.71% | TRUE | TRUE |
| 10 | 49892921 - 50191001 | | TRUE | TRUE |
| 10 | 49892921 - 50191001 | F - 33.33% | FALSE | TRUE |
| 10 | 49892921 - 50191001 | | FALSE | TRUE |
| 10 | 3818188 - 3827473 | | TRUE | FALSE |
| 10 | 3818188 - 3827473 | T - 50.00% | TRUE | TRUE |
| 14 | 68286496 - 69196935 | | TRUE | FALSE |
| 14 | 68286496 - 69196935 | F - 41.67% | TRUE | TRUE |
| 15 | 72635775 - 72668817 | F - 20.00% | TRUE | TRUE |
| 15 | 72635775 - 72668817 | | TRUE | TRUE |
| 16 | 10479912 - 10577495 | T - 61.54% | TRUE | TRUE |
| 16 | 10479912 - 10577495 | | TRUE | TRUE |
| 22 | 30792846 - 30821291 | F - 21.43% | TRUE | TRUE |
| 22 | 30792846 - 30821291 | | TRUE | TRUE |
| 22 | 30792846 - 30821291 | | FALSE | TRUE |
| 1 | 26798902 - 26803133 | | TRUE | TRUE |
| 1 | 26798902 - 26803133 | | TRUE | TRUE |
| 1 | 26798902 - 26803133 | T - 90.48% | TRUE | TRUE |
| 1 | 25568740 - 25664656 | | TRUE | FALSE |
| 1 | 25568740 - 25664656 | F - 7.14% | TRUE | TRUE |
| 1 | 25568740 - 25664656 | | FALSE | TRUE |
| 1 | 89472360 - 89488549 | T - 64.29% | TRUE | TRUE |
| 1 | 89472360 - 89488549 | | TRUE | TRUE |
| 1 | 89472360 - 89488549 | T - 85.71% | TRUE | TRUE |
| 1 | 89472360 - 89488549 | | TRUE | TRUE |
| 1 | 89472360 - 89488549 | | TRUE | TRUE |
| 1 | 89472360 - 89488549 | T - 71.43% | TRUE | TRUE |
| 1 | 89472360 - 89488549 | T - 50.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 177893091 - 178007142 | | TRUE | FALSE |
| 1 | 177893091 - 178007142 | | TRUE | FALSE |
| 1 | 177893091 - 178007142 | | TRUE | FALSE |
| 1 | 177893091 - 178007142 | F - 8.33% | TRUE | FALSE |
| 1 | 177893091 - 178007142 | | FALSE | TRUE |
| 1 | 177893091 - 178007142 | | TRUE | TRUE |
| 1 | 177893091 - 178007142 | | TRUE | TRUE |
| 3 | 56654160 - 56717265 | | TRUE | FALSE |
| 3 | 56654160 - 56717265 | F - 14.29% | TRUE | FALSE |
| 3 | 56654160 - 56717265 | | TRUE | TRUE |
| 5 | 159990127 - 160279221 | F - 31.25% | TRUE | FALSE |
| 5 | 159990127 - 160279221 | | TRUE | FALSE |
| 5 | 159990127 - 160279221 | F - 37.50% | TRUE | FALSE |
| 5 | 159990127 - 160279221 | | FALSE | TRUE |
| 5 | 159990127 - 160279221 | | TRUE | TRUE |
| 8 | 110253148 - 110346614 | F - 45.45% | TRUE | TRUE |
| 8 | 110253148 - 110346614 | | TRUE | TRUE |
| 9 | 79792269 - 80036457 | F - 16.67% | TRUE | FALSE |
| 9 | 79792269 - 80036457 | | TRUE | TRUE |
| 9 | 79792269 - 80036457 | | FALSE | TRUE |
| 9 | 79792269 - 80036457 | | FALSE | TRUE |
| 9 | 79792269 - 80036457 | | TRUE | TRUE |
| 9 | 79792269 - 80036457 | | TRUE | TRUE |
| 9 | 79792269 - 80036457 | | FALSE | TRUE |
| 10 | 75668935 - 75677258 | T - 62.50% | TRUE | TRUE |
| 10 | 75668935 - 75677258 | | TRUE | TRUE |
| 10 | 75668935 - 75677258 | F - 12.50% | TRUE | TRUE |
| 10 | 75668935 - 75677258 | | TRUE | TRUE |
| 10 | 75668935 - 75677258 | T - 62.50% | TRUE | FALSE |
| 10 | 75668935 - 75677258 | | TRUE | TRUE |
| 10 | 75668935 - 75677258 | F - 6.25% | FALSE | TRUE |
| 10 | 75668935 - 75677258 | T - 68.75% | TRUE | TRUE |
| 10 | 75668935 - 75677258 | | TRUE | TRUE |
| 10 | 75668935 - 75677258 | | TRUE | TRUE |
| 11 | 66233798 - 66244808 | | TRUE | TRUE |
| 11 | 66233798 - 66244808 | F - 9.09% | TRUE | TRUE |
| 11 | 66233798 - 66244808 | T - 81.82% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 40.48% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 40.48% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 2.38% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 28.57% | FALSE | TRUE |
| 11 | 2150342 - 2182571 | F - 21.43% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 28.57% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 7.14% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 11.90% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 2.38% | FALSE | TRUE |
| 11 | 2150342 - 2182571 | F - 4.76% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 2.38% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 19.05% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 40.48% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 9.52% | FALSE | TRUE |
| 11 | 2150342 - 2182571 | | FALSE | TRUE |
| 11 | 2150342 - 2182571 | | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 16.67% | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 26.19% | FALSE | TRUE |
| 11 | 2150342 - 2182571 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 11 | 2150342 - 2182571 | | TRUE | TRUE |
| 11 | 2150342 - 2182571 | F - 7.14% | FALSE | TRUE |
| 11 | 2150342 - 2182571 | | FALSE | TRUE |
| 12 | 2050757 - 2113701 | F - 10.00% | TRUE | TRUE |
| 12 | 2050757 - 2113701 | F - 30.00% | TRUE | TRUE |
| 12 | 2050757 - 2113701 | | TRUE | TRUE |
| 12 | 2050757 - 2113701 | F - 20.00% | TRUE | TRUE |
| 12 | 123405498 - 123466196 | F - 20.00% | TRUE | TRUE |
| 12 | 123405498 - 123466196 | | TRUE | TRUE |
| 15 | 42120283 - 42427455 | | TRUE | TRUE |
| 15 | 42120283 - 42427455 | F - 48.28% | TRUE | TRUE |
| 15 | 42120283 - 42427455 | F - 13.79% | TRUE | TRUE |
| 15 | 42120283 - 42427455 | | TRUE | TRUE |
| 15 | 42120283 - 42427455 | | FALSE | TRUE |
| 15 | 42120283 - 42427455 | | TRUE | TRUE |
| 16 | 10855083 - 10912621 | | TRUE | TRUE |
| 16 | 10855083 - 10912621 | F - 27.27% | TRUE | FALSE |
| 16 | 23533334 - 23568696 | | TRUE | TRUE |
| 16 | 23533334 - 23568696 | T - 100.00% | TRUE | TRUE |
| 6_cox_hap2 | 2051204 - 2077009 | F - 7.14% | TRUE | TRUE |
| 6_cox_hap2 | 2051204 - 2077009 | | TRUE | TRUE |
| 6_cox_hap2 | 2051204 - 2077009 | T - 50.00% | TRUE | FALSE |
| 6_dbb_hap3 | 1832788 - 1858594 | F - 7.14% | TRUE | TRUE |
| 6_dbb_hap3 | 1832788 - 1858594 | | TRUE | TRUE |
| 6_dbb_hap3 | 1832788 - 1858594 | T - 50.00% | TRUE | FALSE |
| 6_qbl_hap6 | 1832059 - 1857863 | F - 7.14% | TRUE | TRUE |
| 6_qbl_hap6 | 1832059 - 1857863 | | TRUE | TRUE |
| 6_qbl_hap6 | 1832059 - 1857863 | T - 50.00% | TRUE | FALSE |
| 6_ssto_hap7 | 1871431 - 1897235 | F - 7.14% | TRUE | TRUE |
| 6_ssto_hap7 | 1871431 - 1897235 | | TRUE | TRUE |
| 6_ssto_hap7 | 1871431 - 1897235 | T - 50.00% | TRUE | FALSE |
| 12 | 111051832 - 111087235 | | TRUE | FALSE |
| 12 | 111051832 - 111087235 | | TRUE | TRUE |
| 12 | 111051832 - 111087235 | F - 12.50% | TRUE | TRUE |
| 1 | 185126192 - 185260913 | | TRUE | TRUE |
| 1 | 185126192 - 185260913 | F - 33.33% | TRUE | FALSE |
| 1 | 185126192 - 185260913 | | TRUE | TRUE |
| 1 | 185126192 - 185260913 | | FALSE | TRUE |
| 1 | 185126192 - 185260913 | | FALSE | TRUE |
| 2 | 233924677 - 234116549 | F - 4.17% | TRUE | TRUE |
| 2 | 233924677 - 234116549 | F - 45.83% | FALSE | TRUE |
| 2 | 233924677 - 234116549 | | FALSE | TRUE |
| 2 | 233924677 - 234116549 | | FALSE | TRUE |
| 2 | 233924677 - 234116549 | | FALSE | TRUE |
| 3 | 186256230 - 186264491 | | TRUE | TRUE |
| 3 | 186256230 - 186264491 | F - 33.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | FALSE |
| 5 | 38475065 - 38608456 | F - 25.00% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | F - 8.33% | TRUE | TRUE |
| 5 | 38475065 - 38608456 | | FALSE | TRUE |
| 6 | 146056005 - 146207721 | | TRUE | TRUE |
| 6 | 146056005 - 146207721 | T - 50.00% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | T - 82.61% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | FALSE |
| 9 | 130965658 - 131017527 | F - 4.35% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 8.70% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 4.35% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | T - 56.52% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | T - 52.17% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 4.35% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | T - 86.96% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 13.04% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 8.70% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 43.48% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 4.35% | TRUE | TRUE |
| 9 | 130965658 - 131017527 | | TRUE | TRUE |
| 9 | 130965658 - 131017527 | F - 8.70% | FALSE | TRUE |
| 10 | 101635334 - 101769676 | | FALSE | TRUE |
| 10 | 101635334 - 101769676 | F - 36.36% | TRUE | TRUE |
| 10 | 101635334 - 101769676 | | TRUE | TRUE |
| 10 | 101635334 - 101769676 | F - 27.27% | TRUE | TRUE |
| 10 | 101635334 - 101769676 | | TRUE | TRUE |
| 11 | 115624966 - 115631345 | | TRUE | TRUE |
| 11 | 115624966 - 115631345 | F - 14.29% | FALSE | TRUE |
| 11 | 115624966 - 115631345 | F - 14.29% | FALSE | TRUE |
| 14 | 52897308 - 53019301 | | FALSE | TRUE |
| 14 | 52897308 - 53019301 | F - 10.00% | TRUE | TRUE |
| 14 | 52897308 - 53019301 | | TRUE | TRUE |
| 15 | 20767674 - 20781026 | | TRUE | TRUE |
| 15 | 20767674 - 20781026 | | TRUE | TRUE |
| 15 | 20767674 - 20781026 | F - 33.33% | TRUE | TRUE |
| 15 | 28623784 - 28637171 | F - 40.00% | TRUE | TRUE |
| 15 | 28623784 - 28637171 | T - 80.00% | TRUE | TRUE |
| 15 | 28623784 - 28637171 | | TRUE | TRUE |
| 22 | 45588114 - 45636650 | | TRUE | TRUE |
| 22 | 45588114 - 45636650 | | TRUE | TRUE |
| 22 | 45588114 - 45636650 | F - 18.18% | TRUE | FALSE |
| 1 | 87380331 - 87634887 | | TRUE | TRUE |
| 1 | 87380331 - 87634887 | | TRUE | TRUE |
| 1 | 87380331 - 87634887 | F - 8.70% | TRUE | TRUE |
| 2 | 219135115 - 219211516 | | TRUE | TRUE |
| 2 | 219135115 - 219211516 | F - 7.69% | TRUE | TRUE |
| 2 | 219135115 - 219211516 | F - 38.46% | TRUE | TRUE |
| 2 | 219135115 - 219211516 | F - 7.69% | FALSE | TRUE |
| 2 | 219135115 - 219211516 | F - 7.69% | FALSE | TRUE |
| 2 | 219135115 - 219211516 | | FALSE | TRUE |
| 2 | 219135115 - 219211516 | T - 61.54% | TRUE | TRUE |
| 2 | 160625139 - 160761267 | | TRUE | TRUE |
| 2 | 160625139 - 160761267 | | TRUE | TRUE |
| 2 | 160625139 - 160761267 | | TRUE | TRUE |
| 2 | 160625139 - 160761267 | T - 50.00% | FALSE | TRUE |
| 2 | 160625139 - 160761267 | | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 2 | 160625139 - 160761267 | | FALSE | TRUE |
| | 2 | 27851114 - 27874375 | F - 23.53% | TRUE | FALSE |
| | 2 | 27851114 - 27874375 | | TRUE | TRUE |
| | 2 | 27851114 - 27874375 | | TRUE | TRUE |
| | 3 | 25639475 - 25706430 | | TRUE | TRUE |
| | 3 | 25639475 - 25706430 | F - 5.56% | TRUE | TRUE |
| | 3 | 25639475 - 25706430 | | TRUE | TRUE |
| | 3 | 25639475 - 25706430 | | TRUE | TRUE |
| | 3 | 25639475 - 25706430 | | FALSE | TRUE |
| | 4 | 100257649 - 100274184 | T - 57.14% | TRUE | TRUE |
| | 4 | 100257649 - 100274184 | | FALSE | TRUE |
| | 4 | 100257649 - 100274184 | T - 85.71% | TRUE | TRUE |
| | 4 | 100257649 - 100274184 | | FALSE | TRUE |
| | 6 | 56951642 - 57035105 | | TRUE | FALSE |
| | 6 | 56951642 - 57035105 | F - 42.86% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | F - 28.57% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | | FALSE | TRUE |
| | 6 | 56951642 - 57035105 | F - 35.71% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | F - 35.71% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | F - 17.86% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | F - 39.29% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | F - 21.43% | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | | TRUE | TRUE |
| | 6 | 56951642 - 57035105 | | TRUE | TRUE |
| | 7 | 150035407 - 150038763 | | TRUE | TRUE |
| | 7 | 150035407 - 150038763 | T - 85.71% | FALSE | TRUE |
| | 9 | 86595626 - 86618987 | | TRUE | TRUE |
| | 9 | 86595626 - 86618987 | F - 33.33% | TRUE | TRUE |
| | 9 | 86595626 - 86618987 | T - 88.89% | TRUE | TRUE |
| | 9 | 86595626 - 86618987 | | TRUE | TRUE |
| | 9 | 140513444 - 140764468 | F - 8.00% | TRUE | TRUE |
| | 9 | 140513444 - 140764468 | | TRUE | TRUE |
| | 9 | 140513444 - 140764468 | | FALSE | TRUE |
| | 9 | 95059640 - 95087876 | | TRUE | TRUE |
| | 9 | 95059640 - 95087876 | | TRUE | TRUE |
| | 9 | 95059640 - 95087876 | F - 33.33% | FALSE | TRUE |
| | 9 | 95059640 - 95087876 | F - 3.70% | FALSE | TRUE |
| | 9 | 95059640 - 95087876 | T - 51.85% | FALSE | TRUE |
| | 9 | 95059640 - 95087876 | | FALSE | TRUE |
| X | | 52976462 - 53024651 | | TRUE | TRUE |
| X | | 52976462 - 53024651 | F - 19.44% | FALSE | TRUE |
| X | | 138808505 - 139027435 | | TRUE | FALSE |
| X | | 138808505 - 139027435 | F - 6.25% | TRUE | FALSE |
| X | | 138808505 - 139027435 | | TRUE | TRUE |
| | 10 | 112327449 - 112364394 | | TRUE | FALSE |
| | 10 | 112327449 - 112364394 | T - 75.00% | TRUE | TRUE |
| | 10 | 112327449 - 112364394 | | TRUE | TRUE |
| | 10 | 112327449 - 112364394 | | FALSE | TRUE |
| | 11 | 5684425 - 5959849 | T - 50.00% | TRUE | TRUE |
| | 11 | 5684425 - 5959849 | | FALSE | TRUE |
| | 11 | 5684425 - 5959849 | | TRUE | TRUE |
| | 11 | 5684425 - 5959849 | | TRUE | TRUE |
| | 11 | 5684425 - 5959849 | | TRUE | TRUE |
| | 11 | 5684425 - 5959849 | F - 5.00% | TRUE | TRUE |
| | 11 | 5684425 - 5959849 | | TRUE | TRUE |
| | 15 | 91473410 - 91497323 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 15 | 91473410 - 91497323 | | TRUE | TRUE |
| 15 | 91473410 - 91497323 | F - 29.41% | TRUE | TRUE |
| 15 | 91473410 - 91497323 | F - 23.53% | TRUE | TRUE |
| 17 | 1397871 - 1420182 | F - 33.33% | TRUE | TRUE |
| 17 | 1397871 - 1420182 | | TRUE | TRUE |
| 19 | 41856816 - 41889988 | | TRUE | TRUE |
| 19 | 41856816 - 41889988 | F - 37.50% | FALSE | TRUE |
| 20 | 5488521 - 5490648 | | TRUE | TRUE |
| 20 | 5488521 - 5490648 | T - 100.00% | TRUE | TRUE |
| 20 | 5488521 - 5490648 | T - 100.00% | TRUE | TRUE |
| 21 | 27011584 - 27089874 | | TRUE | TRUE |
| 21 | 27011584 - 27089874 | F - 6.25% | TRUE | TRUE |
| 21 | 27011584 - 27089874 | F - 6.25% | FALSE | TRUE |
| 21 | 27011584 - 27089874 | | FALSE | TRUE |
| 21 | 27011584 - 27089874 | F - 6.25% | FALSE | TRUE |
| 21 | 27011584 - 27089874 | | FALSE | TRUE |
| 21 | 27011584 - 27089874 | F - 18.75% | FALSE | TRUE |
| 22 | 21400249 - 21418457 | T - 62.50% | TRUE | FALSE |
| 22 | 21400249 - 21418457 | | TRUE | TRUE |
| 1 | 15563065 - 15726779 | | TRUE | FALSE |
| 1 | 15563065 - 15726779 | F - 10.00% | TRUE | FALSE |
| 1 | 81771845 - 82458107 | T - 74.19% | TRUE | TRUE |
| 1 | 81771845 - 82458107 | | TRUE | FALSE |
| 1 | 81771845 - 82458107 | | TRUE | FALSE |
| 1 | 81771845 - 82458107 | | FALSE | TRUE |
| 1 | 81771845 - 82458107 | | TRUE | TRUE |
| 1 | 81771845 - 82458107 | T - 67.74% | TRUE | TRUE |
| 1 | 81771845 - 82458107 | | FALSE | TRUE |
| 1 | 182758428 - 182799519 | | TRUE | FALSE |
| 1 | 182758428 - 182799519 | | FALSE | TRUE |
| 1 | 182758428 - 182799519 | | FALSE | TRUE |
| 1 | 182758428 - 182799519 | | FALSE | TRUE |
| 1 | 182758428 - 182799519 | T - 52.17% | FALSE | TRUE |
| 1 | 182758428 - 182799519 | | FALSE | TRUE |
| 2 | 217497551 - 217529159 | | TRUE | FALSE |
| 2 | 217497551 - 217529159 | F - 10.00% | FALSE | TRUE |
| 3 | 104241218 - 104331339 | T - 100.00% | TRUE | FALSE |
| 3 | 104241218 - 104331339 | | TRUE | TRUE |
| 3 | 14186647 - 14220283 | F - 23.53% | TRUE | TRUE |
| 3 | 14186647 - 14220283 | F - 5.88% | TRUE | TRUE |
| 3 | 14186647 - 14220283 | | TRUE | TRUE |
| 4 | 110661848 - 110723335 | T - 63.64% | TRUE | TRUE |
| 4 | 110661848 - 110723335 | | TRUE | TRUE |
| 4 | 110661848 - 110723335 | | TRUE | FALSE |
| 4 | 8594387 - 8621488 | | TRUE | TRUE |
| 4 | 8594387 - 8621488 | F - 42.86% | TRUE | TRUE |
| 5 | 127276118 - 127419299 | | TRUE | TRUE |
| 5 | 127276118 - 127419299 | | TRUE | TRUE |
| 5 | 127276118 - 127419299 | F - 41.67% | TRUE | TRUE |
| 6 | 30539153 - 30564956 | F - 6.67% | TRUE | TRUE |
| 6 | 30539153 - 30564956 | | TRUE | TRUE |
| 6 | 30539153 - 30564956 | T - 53.33% | TRUE | FALSE |
| 6 | 35181839 - 35220856 | T - 83.33% | TRUE | TRUE |
| 6 | 35181839 - 35220856 | | TRUE | TRUE |
| 6 | 35181839 - 35220856 | F - 16.67% | TRUE | TRUE |
| 6 | 35181839 - 35220856 | | FALSE | TRUE |
| 6 | 35181839 - 35220856 | | TRUE | TRUE |
| 6 | 35181839 - 35220856 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 6 | 35181839 - 35220856 | | FALSE | TRUE |
| 10 | 124713897 - 124757029 | | TRUE | TRUE |
| 10 | 124713897 - 124757029 | F - 8.33% | TRUE | TRUE |
| 10 | 75572259 - 75634349 | | TRUE | TRUE |
| 10 | 75572259 - 75634349 | F - 17.24% | FALSE | TRUE |
| 11 | 76156066 - 76264069 | | TRUE | TRUE |
| 11 | 76156066 - 76264069 | | TRUE | TRUE |
| 11 | 76156066 - 76264069 | F - 8.00% | FALSE | TRUE |
| 11 | 76156066 - 76264069 | | TRUE | TRUE |
| 11 | 76156066 - 76264069 | | TRUE | TRUE |
| 13 | 98605742 - 98676551 | | TRUE | FALSE |
| 13 | 98605742 - 98676551 | F - 2.63% | TRUE | FALSE |
| 13 | 98605742 - 98676551 | | TRUE | FALSE |
| 13 | 98605742 - 98676551 | F - 42.11% | TRUE | TRUE |
| 13 | 98605742 - 98676551 | | TRUE | TRUE |
| 15 | 45923346 - 45983492 | F - 25.00% | FALSE | TRUE |
| 15 | 45923346 - 45983492 | | TRUE | TRUE |
| 16 | 10971039 - 11023624 | | TRUE | TRUE |
| 16 | 10971039 - 11023624 | | TRUE | FALSE |
| 16 | 10971039 - 11023624 | T - 100.00% | TRUE | TRUE |
| 17 | 71188771 - 71204646 | T - 85.71% | TRUE | TRUE |
| 17 | 71188771 - 71204646 | | TRUE | TRUE |
| 19 | 49977466 - 49990894 | | TRUE | TRUE |
| 19 | 49977466 - 49990894 | T - 91.67% | TRUE | TRUE |
| 20 | 21106624 - 21227260 | | TRUE | FALSE |
| 20 | 21106624 - 21227260 | F - 10.53% | FALSE | TRUE |
| 6_mcf_hap5 | 2968140 - 2985242 | F - 5.26% | TRUE | TRUE |
| 6_mcf_hap5 | 2968140 - 2985242 | F - 47.37% | TRUE | TRUE |
| 6_mcf_hap5 | 2968140 - 2985242 | | TRUE | TRUE |
| 1 | 181002561 - 181031074 | F - 30.77% | FALSE | TRUE |
| 1 | 181002561 - 181031074 | | TRUE | TRUE |
| 1 | 181002561 - 181031074 | F - 7.69% | TRUE | TRUE |
| 1 | 181002561 - 181031074 | | TRUE | TRUE |
| 1 | 23707554 - 23751261 | F - 33.33% | TRUE | FALSE |
| 1 | 23707554 - 23751261 | T - 83.33% | TRUE | TRUE |
| 1 | 23707554 - 23751261 | | TRUE | TRUE |
| 1 | 23707554 - 23751261 | | TRUE | TRUE |
| 1 | 161952982 - 161993644 | T - 57.14% | TRUE | TRUE |
| 1 | 161952982 - 161993644 | | TRUE | TRUE |
| 1 | 161952982 - 161993644 | F - 14.29% | FALSE | TRUE |
| 1 | 175291935 - 175712906 | | TRUE | FALSE |
| 1 | 175291935 - 175712906 | T - 87.50% | TRUE | TRUE |
| 1 | 175291935 - 175712906 | | FALSE | TRUE |
| 2 | 11584501 - 11606297 | | TRUE | TRUE |
| 2 | 11584501 - 11606297 | | TRUE | TRUE |
| 2 | 11584501 - 11606297 | F - 4.55% | FALSE | TRUE |
| 3 | 140947568 - 141013748 | | TRUE | FALSE |
| 3 | 140947568 - 141013748 | | TRUE | FALSE |
| 3 | 140947568 - 141013748 | F - 9.09% | TRUE | TRUE |
| 3 | 140947568 - 141013748 | | TRUE | TRUE |
| 5 | 4033826 - 4041877 | T - 100.00% | TRUE | TRUE |
| 5 | 4033826 - 4041877 | | TRUE | TRUE |
| 6 | 8413301 - 8435794 | | TRUE | TRUE |
| 6 | 8413301 - 8435794 | F - 9.09% | TRUE | TRUE |
| 6 | 8413301 - 8435794 | F - 18.18% | TRUE | TRUE |
| 6 | 52842746 - 52860178 | | FALSE | TRUE |
| 6 | 52842746 - 52860178 | F - 8.33% | TRUE | TRUE |
| 7 | 140152840 - 140179369 | F - 12.50% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 7 | 140152840 - 140179369 | | TRUE | FALSE |
| | 7 | 140152840 - 140179369 | | FALSE | TRUE |
| | 7 | 140152840 - 140179369 | | FALSE | TRUE |
| | 7 | 140152840 - 140179369 | | FALSE | TRUE |
| | 7 | 141352181 - 141401955 | | TRUE | TRUE |
| | 7 | 141352181 - 141401955 | T - 50.00% | TRUE | TRUE |
| | 7 | 141352181 - 141401955 | T - 50.00% | TRUE | TRUE |
| | 8 | 28351722 - 28431785 | | FALSE | TRUE |
| | 8 | 28351722 - 28431785 | | TRUE | TRUE |
| | 8 | 28351722 - 28431785 | | FALSE | TRUE |
| | 8 | 28351722 - 28431785 | T - 71.43% | FALSE | TRUE |
| | 8 | 28351722 - 28431785 | T - 57.14% | TRUE | TRUE |
| | 8 | 58055248 - 58152857 | | TRUE | TRUE |
| | 8 | 58055248 - 58152857 | T - 60.00% | TRUE | TRUE |
| | 9 | 130213765 - 130265780 | | TRUE | FALSE |
| | 9 | 130213765 - 130265780 | | TRUE | TRUE |
| | 9 | 130213765 - 130265780 | F - 15.79% | TRUE | FALSE |
| | 9 | 130213765 - 130265780 | | TRUE | TRUE |
| | 9 | 130213765 - 130265780 | | FALSE | TRUE |
| | 9 | 37510889 - 37588929 | | TRUE | FALSE |
| | 9 | 37510889 - 37588929 | T - 50.00% | TRUE | TRUE |
| | 9 | 37510889 - 37588929 | F - 12.50% | TRUE | TRUE |
| | 9 | 37510889 - 37588929 | | FALSE | TRUE |
| X | | 133594175 - 133654543 | | TRUE | TRUE |
| X | | 133594175 - 133654543 | F - 16.67% | TRUE | TRUE |
| X | | 53963109 - 54075391 | | TRUE | TRUE |
| X | | 53963109 - 54075391 | F - 7.41% | TRUE | TRUE |
| X | | 53963109 - 54075391 | | FALSE | TRUE |
| X | | 53963109 - 54075391 | | TRUE | TRUE |
| X | | 53963109 - 54075391 | | FALSE | TRUE |
| | 11 | 83166055 - 85338966 | T - 66.67% | TRUE | TRUE |
| | 11 | 83166055 - 85338966 | | TRUE | TRUE |
| | 11 | 83166055 - 85338966 | | FALSE | TRUE |
| | 11 | 83166055 - 85338966 | | FALSE | TRUE |
| | 12 | 861759 - 1020618 | | TRUE | TRUE |
| | 12 | 861759 - 1020618 | | TRUE | FALSE |
| | 12 | 861759 - 1020618 | | TRUE | TRUE |
| | 12 | 861759 - 1020618 | | FALSE | TRUE |
| | 12 | 861759 - 1020618 | | TRUE | TRUE |
| | 12 | 861759 - 1020618 | F - 6.25% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | T - 50.00% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | F - 16.67% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | T - 66.67% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | F - 16.67% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | F - 33.33% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | T - 50.00% | TRUE | TRUE |
| | 12 | 8185299 - 8208118 | | FALSE | TRUE |
| | 12 | 110939419 - 110969891 | T - 81.25% | TRUE | FALSE |
| | 12 | 110939419 - 110969891 | | TRUE | FALSE |
| | 12 | 110939419 - 110969891 | F - 37.50% | FALSE | TRUE |
| | 12 | 110939419 - 110969891 | T - 75.00% | FALSE | TRUE |
| | 12 | 1021243 - 1099219 | T - 50.00% | TRUE | TRUE |
| | 12 | 1021243 - 1099219 | | FALSE | TRUE |
| | 12 | 1021243 - 1099219 | F - 41.67% | TRUE | TRUE |
| | 12 | 1021243 - 1099219 | F - 4.17% | FALSE | TRUE |
| | 14 | 51441980 - 51562779 | F - 11.11% | TRUE | TRUE |
| | 14 | 51441980 - 51562779 | F - 33.33% | TRUE | TRUE |
| | 14 | 51441980 - 51562779 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 14 | 51441980 - 51562779 | T - 55.56% | TRUE | TRUE |
| 14 | 51441980 - 51562779 | | FALSE | TRUE |
| 16 | 29465822 - 29476301 | | TRUE | TRUE |
| 16 | 29465822 - 29476301 | F - 4.00% | TRUE | TRUE |
| 16 | 29465822 - 29476301 | | TRUE | TRUE |
| 16 | 30205164 - 30215650 | | TRUE | TRUE |
| 16 | 30205164 - 30215650 | F - 3.57% | TRUE | TRUE |
| 16 | 30205164 - 30215650 | | TRUE | TRUE |
| 17 | 34890847 - 34895150 | F - 20.00% | TRUE | TRUE |
| 17 | 34890847 - 34895150 | | FALSE | TRUE |
| 22 | 19744226 - 19771116 | | TRUE | TRUE |
| 22 | 19744226 - 19771116 | F - 12.50% | FALSE | TRUE |
| 22 | 19744226 - 19771116 | | TRUE | TRUE |
| 22 | 19744226 - 19771116 | T - 87.50% | TRUE | TRUE |
| 22 | 19744226 - 19771116 | | TRUE | TRUE |
| 22 | 19744226 - 19771116 | T - 75.00% | TRUE | TRUE |
| 6_cox_hap2 | 3098067 - 3115170 | F - 5.26% | TRUE | TRUE |
| 6_cox_hap2 | 3098067 - 3115170 | F - 47.37% | TRUE | TRUE |
| 6_cox_hap2 | 3098067 - 3115170 | | TRUE | TRUE |
| 6_qbl_hap6 | 2882091 - 2899191 | F - 5.26% | TRUE | TRUE |
| 6_qbl_hap6 | 2882091 - 2899191 | F - 47.37% | TRUE | TRUE |
| 6_qbl_hap6 | 2882091 - 2899191 | | TRUE | TRUE |
| 6_ssto_hap7 | 2919253 - 2936356 | F - 5.26% | TRUE | TRUE |
| 6_ssto_hap7 | 2919253 - 2936356 | F - 47.37% | TRUE | TRUE |
| 6_ssto_hap7 | 2919253 - 2936356 | | TRUE | TRUE |
| 21 | 43916118 - 44001550 | | TRUE | TRUE |
| 21 | 43916118 - 44001550 | F - 27.27% | FALSE | TRUE |
| 3 | 128598333 - 128634910 | | TRUE | TRUE |
| 3 | 128598333 - 128634910 | | TRUE | TRUE |
| 3 | 128598333 - 128634910 | T - 71.43% | TRUE | TRUE |
| 3 | 128997671 - 129024146 | | FALSE | TRUE |
| 3 | 128997671 - 129024146 | | TRUE | TRUE |
| 3 | 128997671 - 129024146 | F - 26.67% | TRUE | TRUE |
| 3 | 128997671 - 129024146 | | TRUE | TRUE |
| 4 | 160025330 - 160281321 | F - 20.00% | TRUE | TRUE |
| 4 | 160025330 - 160281321 | | TRUE | FALSE |
| 4 | 160025330 - 160281321 | F - 6.67% | TRUE | TRUE |
| 4 | 160025330 - 160281321 | | TRUE | TRUE |
| 4 | 160025330 - 160281321 | | TRUE | TRUE |
| 5 | 175953698 - 175965026 | | TRUE | TRUE |
| 5 | 175953698 - 175965026 | F - 38.46% | FALSE | TRUE |
| 7 | 130626519 - 130794935 | F - 18.18% | TRUE | TRUE |
| 7 | 130626519 - 130794935 | F - 18.18% | TRUE | FALSE |
| 7 | 130626519 - 130794935 | F - 9.09% | TRUE | TRUE |
| 7 | 130626519 - 130794935 | | FALSE | TRUE |
| 8 | 54628115 - 54756118 | F - 3.57% | TRUE | FALSE |
| 8 | 54628115 - 54756118 | | TRUE | TRUE |
| 8 | 54628115 - 54756118 | | TRUE | TRUE |
| 9 | 6720863 - 7175648 | F - 3.57% | TRUE | TRUE |
| 9 | 6720863 - 7175648 | | TRUE | TRUE |
| 9 | 6720863 - 7175648 | | FALSE | TRUE |
| 9 | 6720863 - 7175648 | F - 42.86% | TRUE | TRUE |
| 9 | 6720863 - 7175648 | F - 39.29% | FALSE | TRUE |
| 9 | 6720863 - 7175648 | | TRUE | TRUE |
| 9 | 6720863 - 7175648 | F - 25.00% | TRUE | TRUE |
| 9 | 6720863 - 7175648 | F - 21.43% | TRUE | TRUE |
| X | 153576892 - 153603006 | | TRUE | TRUE |
| X | 153576892 - 153603006 | F - 4.76% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| X | 153576892 - 153603006 | F - 9.52% | TRUE | TRUE |
| X | 153576892 - 153603006 | F - 14.29% | TRUE | TRUE |
| X | 153576892 - 153603006 | | TRUE | TRUE |
| 12 | 45609770 - 45834187 | | TRUE | TRUE |
| 12 | 45609770 - 45834187 | F - 36.36% | TRUE | TRUE |
| 12 | 45609770 - 45834187 | | TRUE | TRUE |
| 12 | 45609770 - 45834187 | | TRUE | TRUE |
| 13 | 42614172 - 42830716 | | TRUE | TRUE |
| 13 | 42614172 - 42830716 | F - 16.67% | TRUE | TRUE |
| 13 | 42614172 - 42830716 | | FALSE | TRUE |
| 14 | 103851701 - 103970168 | | TRUE | TRUE |
| 14 | 103851701 - 103970168 | T - 80.00% | TRUE | TRUE |
| 14 | 103851701 - 103970168 | F - 30.00% | FALSE | TRUE |
| 14 | 103851701 - 103970168 | | TRUE | TRUE |
| 14 | 103851701 - 103970168 | F - 10.00% | TRUE | TRUE |
| 15 | 40331512 - 40359710 | | TRUE | TRUE |
| 15 | 40331512 - 40359710 | T - 83.33% | TRUE | TRUE |
| 17 | 9799637 - 9808684 | | TRUE | FALSE |
| 17 | 9799637 - 9808684 | T - 75.00% | TRUE | TRUE |
| 17 | 9799637 - 9808684 | F - 25.00% | TRUE | FALSE |
| 17 | 9799637 - 9808684 | F - 25.00% | TRUE | TRUE |
| 17 | 9799637 - 9808684 | T - 50.00% | TRUE | TRUE |
| 21 | 47649145 - 47671743 | F - 11.11% | TRUE | TRUE |
| 21 | 47649145 - 47671743 | | TRUE | TRUE |
| 21 | 33043313 - 33104431 | F - 23.08% | TRUE | TRUE |
| 21 | 33043313 - 33104431 | | FALSE | TRUE |
| 22 | 31322596 - 31364284 | T - 66.67% | TRUE | TRUE |
| 22 | 31322596 - 31364284 | | TRUE | TRUE |
| 1 | 40997233 - 41013841 | | TRUE | TRUE |
| 1 | 40997233 - 41013841 | F - 14.29% | FALSE | TRUE |
| 1 | 14362 - 29961 | F - 10.00% | TRUE | TRUE |
| 1 | 14362 - 29961 | | TRUE | TRUE |
| 1 | 14362 - 29961 | | TRUE | TRUE |
| 1 | 14362 - 29961 | | TRUE | TRUE |
| 2 | 169628461 - 169642939 | T - 100.00% | TRUE | TRUE |
| 2 | 169628461 - 169642939 | | FALSE | TRUE |
| 2 | 204259068 - 204400133 | | TRUE | TRUE |
| 2 | 204259068 - 204400133 | F - 40.00% | TRUE | TRUE |
| 2 | 204259068 - 204400133 | | TRUE | TRUE |
| 3 | 98298286 - 98312567 | F - 11.11% | TRUE | FALSE |
| 3 | 98298286 - 98312567 | | TRUE | TRUE |
| 4 | 48807229 - 48863834 | | TRUE | TRUE |
| 4 | 48807229 - 48863834 | F - 13.51% | TRUE | TRUE |
| 4 | 48807229 - 48863834 | | FALSE | TRUE |
| 4 | 48807229 - 48863834 | | TRUE | TRUE |
| 4 | 128982423 - 129144086 | | TRUE | TRUE |
| 4 | 128982423 - 129144086 | F - 21.74% | TRUE | TRUE |
| 4 | 128982423 - 129144086 | | TRUE | FALSE |
| 4 | 128982423 - 129144086 | | TRUE | TRUE |
| 4 | 128982423 - 129144086 | | FALSE | TRUE |
| 4 | 128982423 - 129144086 | | TRUE | TRUE |
| 5 | 95297705 - 95970220 | | TRUE | TRUE |
| 5 | 95297705 - 95970220 | | FALSE | TRUE |
| 5 | 95297705 - 95970220 | T - 66.67% | TRUE | TRUE |
| 5 | 95297705 - 95970220 | F - 33.33% | TRUE | TRUE |
| 5 | 95297705 - 95970220 | | FALSE | TRUE |
| 5 | 95297705 - 95970220 | F - 33.33% | TRUE | TRUE |
| 5 | 172890503 - 172911587 | T - 50.00% | TRUE | FALSE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 5 | 172890503 - 172911587 | T - 50.00% | TRUE | TRUE |
| | 5 | 172890503 - 172911587 | T - 100.00% | TRUE | TRUE |
| | 5 | 172890503 - 172911587 | T - 50.00% | TRUE | TRUE |
| | 5 | 172890503 - 172911587 | T - 50.00% | TRUE | TRUE |
| | 5 | 172890503 - 172911587 | | TRUE | TRUE |
| | 5 | 172890503 - 172911587 | T - 50.00% | FALSE | TRUE |
| | 7 | 38217808 - 38270272 | | TRUE | TRUE |
| | 7 | 38217808 - 38270272 | F - 9.09% | TRUE | TRUE |
| | 7 | 128594234 - 128695227 | F - 36.36% | TRUE | FALSE |
| | 7 | 128594234 - 128695227 | | TRUE | TRUE |
| | 8 | 109213445 - 109447562 | | TRUE | TRUE |
| | 8 | 109213445 - 109447562 | F - 3.85% | TRUE | TRUE |
| | 8 | 109213445 - 109447562 | | FALSE | TRUE |
| | 8 | 109213445 - 109447562 | | TRUE | TRUE |
| | 8 | 109213445 - 109447562 | F - 3.85% | TRUE | TRUE |
| | 8 | 109213445 - 109447562 | | TRUE | TRUE |
| X | | 6451659 - 6453159 | T - 55.56% | TRUE | TRUE |
| X | | 6451659 - 6453159 | | TRUE | FALSE |
| | 10 | 94352825 - 94415152 | F - 25.00% | TRUE | TRUE |
| | 10 | 94352825 - 94415152 | T - 100.00% | TRUE | TRUE |
| | 10 | 94352825 - 94415152 | | TRUE | TRUE |
| | 10 | 94352825 - 94415152 | T - 100.00% | TRUE | TRUE |
| | 10 | 94352825 - 94415152 | | FALSE | TRUE |
| | 10 | 46111039 - 46168261 | | TRUE | TRUE |
| | 10 | 46111039 - 46168261 | T - 70.00% | TRUE | TRUE |
| | 10 | 46111039 - 46168261 | | TRUE | TRUE |
| | 10 | 46111039 - 46168261 | T - 65.00% | TRUE | TRUE |
| | 10 | 46111039 - 46168261 | | TRUE | TRUE |
| | 12 | 329787 - 372039 | | TRUE | TRUE |
| | 12 | 329787 - 372039 | F - 18.18% | TRUE | TRUE |
| | 12 | 53845886 - 53874946 | F - 3.33% | TRUE | TRUE |
| | 12 | 53845886 - 53874946 | | TRUE | TRUE |
| | 19 | 6413119 - 6424822 | | TRUE | FALSE |
| | 19 | 6413119 - 6424822 | T - 83.33% | TRUE | FALSE |
| | 19 | 37672481 - 37709055 | | TRUE | TRUE |
| | 19 | 37672481 - 37709055 | F - 44.44% | TRUE | FALSE |
| | 22 | 19117792 - 19132197 | | TRUE | TRUE |
| | 22 | 19117792 - 19132197 | F - 33.33% | TRUE | TRUE |
| | 22 | 50750392 - 50765489 | F - 20.00% | TRUE | TRUE |
| | 22 | 50750392 - 50765489 | | TRUE | TRUE |
| | 22 | 50750392 - 50765489 | | FALSE | TRUE |
| | 8 | 29952914 - 29995864 | | TRUE | TRUE |
| | 8 | 29952914 - 29995864 | F - 10.00% | TRUE | TRUE |
| | 1 | 9294834 - 9331396 | | TRUE | TRUE |
| | 1 | 9294834 - 9331396 | F - 25.00% | TRUE | TRUE |
| | 1 | 89149905 - 89301938 | | TRUE | TRUE |
| | 1 | 89149905 - 89301938 | F - 6.67% | TRUE | TRUE |
| | 2 | 202252581 - 202345574 | | TRUE | TRUE |
| | 2 | 202252581 - 202345574 | F - 33.33% | TRUE | TRUE |
| | 2 | 202252581 - 202345574 | F - 6.67% | TRUE | TRUE |
| | 2 | 202252581 - 202345574 | F - 46.67% | FALSE | TRUE |
| | 3 | 127317066 - 127341278 | | TRUE | TRUE |
| | 3 | 127317066 - 127341278 | | TRUE | FALSE |
| | 3 | 127317066 - 127341278 | F - 47.62% | FALSE | TRUE |
| | 3 | 127317066 - 127341278 | | TRUE | TRUE |
| | 3 | 127317066 - 127341278 | | TRUE | TRUE |
| | 3 | 127317066 - 127341278 | | FALSE | TRUE |
| | 3 | 127317066 - 127341278 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 3 | 65339200 - 66024509 | | TRUE | TRUE |
| 3 | 65339200 - 66024509 | | TRUE | TRUE |
| 3 | 65339200 - 66024509 | F - 7.14% | TRUE | TRUE |
| 3 | 65339200 - 66024509 | F - 7.14% | TRUE | FALSE |
| 3 | 65339200 - 66024509 | F - 17.86% | TRUE | TRUE |
| 4 | 73939093 - 74124515 | | TRUE | TRUE |
| 4 | 73939093 - 74124515 | | TRUE | TRUE |
| 4 | 73939093 - 74124515 | T - 66.67% | TRUE | TRUE |
| 4 | 73939093 - 74124515 | | TRUE | TRUE |
| 4 | 106965474 - 107242652 | | TRUE | TRUE |
| 4 | 106965474 - 107242652 | | TRUE | TRUE |
| 4 | 106965474 - 107242652 | F - 3.70% | TRUE | TRUE |
| 4 | 106965474 - 107242652 | | FALSE | TRUE |
| 4 | 106965474 - 107242652 | F - 3.70% | TRUE | TRUE |
| 4 | 106965474 - 107242652 | | TRUE | TRUE |
| 4 | 106965474 - 107242652 | | FALSE | TRUE |
| 4 | 106965474 - 107242652 | F - 3.70% | TRUE | TRUE |
| 6 | 99990256 - 100016849 | T - 74.07% | TRUE | TRUE |
| 6 | 99990256 - 100016849 | | TRUE | TRUE |
| 7 | 7676149 - 7758238 | | TRUE | FALSE |
| 7 | 7676149 - 7758238 | | TRUE | TRUE |
| 7 | 7676149 - 7758238 | F - 20.00% | TRUE | TRUE |
| 7 | 7676149 - 7758238 | F - 10.00% | TRUE | TRUE |
| 7 | 7676149 - 7758238 | | FALSE | TRUE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 22.22% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | T - 100.00% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | T - 55.56% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 5.56% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 5.56% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 11.11% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 11.11% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 22.22% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | T - 50.00% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | T - 94.44% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 11.11% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 16.67% | TRUE | FALSE |
| 7 | 81328322 - 81399754 | F - 27.78% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 5.56% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | T - 88.89% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 11.11% | TRUE | TRUE |
| 7 | 81328322 - 81399754 | | TRUE | TRUE |
| 7 | 81328322 - 81399754 | F - 5.56% | TRUE | TRUE |
| 8 | 564744 - 688106 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 8 | 564744 - 688106 | F - 7.14% | TRUE | TRUE |
| 8 | 564744 - 688106 | | FALSE | TRUE |
| 8 | 564744 - 688106 | | TRUE | TRUE |
| 8 | 564744 - 688106 | | FALSE | TRUE |
| 8 | 144386554 - 144442149 | | TRUE | TRUE |
| 8 | 144386554 - 144442149 | F - 7.41% | FALSE | TRUE |
| 8 | 144386554 - 144442149 | | TRUE | TRUE |
| 8 | 144386554 - 144442149 | | TRUE | FALSE |
| 11 | 126152960 - 126168740 | F - 7.69% | TRUE | TRUE |
| 11 | 126152960 - 126168740 | | FALSE | TRUE |
| 11 | 126152960 - 126168740 | | FALSE | TRUE |
| 12 | 27677045 - 27848497 | F - 44.44% | TRUE | TRUE |
| 12 | 27677045 - 27848497 | T - 55.56% | TRUE | TRUE |
| 12 | 27677045 - 27848497 | | TRUE | TRUE |
| 12 | 27677045 - 27848497 | | TRUE | TRUE |
| 12 | 27677045 - 27848497 | T - 61.11% | TRUE | TRUE |
| 12 | 27677045 - 27848497 | | TRUE | TRUE |
| 12 | 27677045 - 27848497 | | FALSE | TRUE |
| 14 | 23340822 - 23350789 | | TRUE | TRUE |
| 14 | 23340822 - 23350789 | F - 12.50% | TRUE | TRUE |
| 15 | 69591286 - 69700119 | | TRUE | TRUE |
| 15 | 69591286 - 69700119 | | TRUE | TRUE |
| 15 | 69591286 - 69700119 | | TRUE | TRUE |
| 15 | 69591286 - 69700119 | F - 44.44% | TRUE | TRUE |
| 15 | 69591286 - 69700119 | | TRUE | TRUE |
| 15 | 69591286 - 69700119 | | FALSE | TRUE |
| 15 | 77712993 - 77777949 | | TRUE | TRUE |
| 15 | 77712993 - 77777949 | F - 16.67% | TRUE | TRUE |
| 15 | 70340129 - 70390515 | | TRUE | FALSE |
| 15 | 70340129 - 70390515 | | TRUE | TRUE |
| 15 | 70340129 - 70390515 | F - 3.85% | TRUE | TRUE |
| 15 | 70340129 - 70390515 | | TRUE | TRUE |
| 17 | 29036626 - 29097068 | | TRUE | FALSE |
| 17 | 29036626 - 29097068 | F - 20.00% | TRUE | TRUE |
| 17 | 29036626 - 29097068 | | TRUE | TRUE |
| 17 | 29036626 - 29097068 | F - 40.00% | TRUE | TRUE |
| 17 | 20841851 - 20901341 | | TRUE | TRUE |
| 17 | 20841851 - 20901341 | T - 100.00% | TRUE | TRUE |
| 17 | 20841851 - 20901341 | T - 75.00% | TRUE | TRUE |
| 17 | 20841851 - 20901341 | T - 50.00% | TRUE | TRUE |
| 18 | 2655886 - 2805015 | | TRUE | FALSE |
| 18 | 2655886 - 2805015 | | TRUE | TRUE |
| 18 | 2655886 - 2805015 | T - 50.00% | TRUE | TRUE |
| 19 | 46498339 - 46521874 | | TRUE | TRUE |
| 19 | 46498339 - 46521874 | F - 33.33% | TRUE | TRUE |
| 19 | 46498339 - 46521874 | | FALSE | TRUE |
| 20 | 35280169 - 35374541 | T - 50.00% | TRUE | TRUE |
| 20 | 35280169 - 35374541 | | TRUE | TRUE |
| 6_ssto_hap7 | 1238371 - 1243012 | F - 6.25% | TRUE | TRUE |
| 6_ssto_hap7 | 1238371 - 1243012 | | FALSE | TRUE |
| 6_ssto_hap7 | 1238371 - 1243012 | | FALSE | TRUE |
| 1 | 24683489 - 24743424 | | TRUE | TRUE |
| 1 | 24683489 - 24743424 | F - 8.70% | TRUE | TRUE |
| 1 | 24683489 - 24743424 | F - 4.35% | TRUE | TRUE |
| 1 | 24683489 - 24743424 | F - 47.83% | TRUE | FALSE |
| 1 | 24683489 - 24743424 | | TRUE | TRUE |
| 3 | 48445261 - 48471594 | F - 26.92% | TRUE | TRUE |
| 3 | 48445261 - 48471594 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 4 | 1984441 - 2043630 | | TRUE | TRUE |
| 4 | 1984441 - 2043630 | F - 4.55% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | | TRUE | TRUE |
| 4 | 40812044 - 41218731 | | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 2.56% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 23.08% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 35.90% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 12.82% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 12.82% | FALSE | TRUE |
| 4 | 40812044 - 41218731 | F - 2.56% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 5.13% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 2.56% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | F - 2.56% | TRUE | TRUE |
| 4 | 40812044 - 41218731 | | TRUE | TRUE |
| 5 | 37379314 - 37753537 | | TRUE | TRUE |
| 5 | 37379314 - 37753537 | T - 60.00% | TRUE | TRUE |
| 5 | 138744279 - 138780180 | F - 20.00% | TRUE | TRUE |
| 5 | 138744279 - 138780180 | | TRUE | TRUE |
| 5 | 138744279 - 138780180 | | TRUE | TRUE |
| 8 | 133787604 - 133861052 | | TRUE | TRUE |
| 8 | 133787604 - 133861052 | F - 3.45% | TRUE | TRUE |
| 8 | 133787604 - 133861052 | F - 10.34% | FALSE | TRUE |
| 8 | 133787604 - 133861052 | F - 3.45% | TRUE | TRUE |
| 8 | 133787604 - 133861052 | F - 3.45% | FALSE | TRUE |
| 8 | 133787604 - 133861052 | F - 24.14% | FALSE | TRUE |
| 8 | 133787604 - 133861052 | F - 20.69% | TRUE | TRUE |
| 8 | 133787604 - 133861052 | | TRUE | TRUE |
| 8 | 133787604 - 133861052 | | TRUE | TRUE |
| 8 | 133787604 - 133861052 | T - 62.07% | FALSE | TRUE |
| 8 | 133787604 - 133861052 | F - 3.45% | TRUE | TRUE |
| 8 | 133787604 - 133861052 | F - 3.45% | FALSE | TRUE |
| 8 | 133787604 - 133861052 | | FALSE | TRUE |
| 8 | 38268656 - 38326352 | | TRUE | TRUE |
| 8 | 38268656 - 38326352 | | TRUE | TRUE |
| 8 | 38268656 - 38326352 | F - 3.85% | TRUE | TRUE |
| 8 | 38268656 - 38326352 | | FALSE | TRUE |
| 8 | 38268656 - 38326352 | | FALSE | TRUE |
| 9 | 140354404 - 140444986 | | TRUE | TRUE |
| 9 | 140354404 - 140444986 | F - 37.50% | TRUE | TRUE |
| 9 | 140354404 - 140444986 | | TRUE | TRUE |
| 9 | 140354404 - 140444986 | F - 25.00% | TRUE | TRUE |
| 9 | 140354404 - 140444986 | T - 50.00% | FALSE | TRUE |
| 9 | 140354404 - 140444986 | F - 6.25% | TRUE | TRUE |
| 9 | 140354404 - 140444986 | F - 43.75% | TRUE | TRUE |
| 9 | 140354404 - 140444986 | | TRUE | TRUE |
| 9 | 140354404 - 140444986 | T - 50.00% | TRUE | TRUE |
| X | 19007425 - 19140755 | F - 4.17% | TRUE | TRUE |
| X | 19007425 - 19140755 | T - 95.83% | TRUE | TRUE |
| X | 19007425 - 19140755 | | FALSE | TRUE |
| X | 19007425 - 19140755 | | FALSE | TRUE |
| X | 19007425 - 19140755 | | TRUE | TRUE |
| X | 19007425 - 19140755 | T - 100.00% | TRUE | TRUE |
| X | 19007425 - 19140755 | T - 91.67% | TRUE | TRUE |
| X | 19007425 - 19140755 | T - 95.83% | TRUE | TRUE |
| X | 19007425 - 19140755 | | FALSE | TRUE |
| X | 19007425 - 19140755 | | FALSE | TRUE |
| 12 | 78225069 - 78606790 | | TRUE | TRUE |
| 12 | 78225069 - 78606790 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 12 | 78225069 - 78606790 | | TRUE | TRUE |
| 12 | 78225069 - 78606790 | | TRUE | FALSE |
| 12 | 78225069 - 78606790 | T - 66.67% | TRUE | TRUE |
| 12 | 78225069 - 78606790 | F - 16.67% | TRUE | TRUE |
| 12 | 78225069 - 78606790 | | TRUE | TRUE |
| 12 | 78225069 - 78606790 | T - 83.33% | TRUE | TRUE |
| 12 | 78225069 - 78606790 | | TRUE | TRUE |
| 12 | 78225069 - 78606790 | T - 66.67% | TRUE | TRUE |
| 12 | 78225069 - 78606790 | | TRUE | TRUE |
| 12 | 78225069 - 78606790 | T - 58.33% | FALSE | TRUE |
| 12 | 78225069 - 78606790 | | FALSE | TRUE |
| 12 | 124086646 - 124105482 | T - 72.73% | TRUE | TRUE |
| 12 | 124086646 - 124105482 | | FALSE | TRUE |
| 13 | 95672083 - 95953687 | | TRUE | TRUE |
| 13 | 95672083 - 95953687 | | TRUE | TRUE |
| 13 | 95672083 - 95953687 | F - 6.25% | TRUE | TRUE |
| 13 | 95672083 - 95953687 | | FALSE | TRUE |
| 13 | 95672083 - 95953687 | | FALSE | TRUE |
| 13 | 95672083 - 95953687 | F - 25.00% | TRUE | TRUE |
| 13 | 95672083 - 95953687 | F - 18.75% | TRUE | TRUE |
| 14 | 90261013 - 90421121 | T - 92.31% | TRUE | TRUE |
| 14 | 90261013 - 90421121 | | TRUE | TRUE |
| 14 | 90261013 - 90421121 | T - 53.85% | TRUE | TRUE |
| 14 | 90261013 - 90421121 | | TRUE | TRUE |
| 14 | 90261013 - 90421121 | | FALSE | TRUE |
| 14 | 90261013 - 90421121 | F - 30.77% | FALSE | TRUE |
| 16 | 54951749 - 54963101 | | TRUE | TRUE |
| 16 | 54951749 - 54963101 | F - 7.69% | TRUE | TRUE |
| 16 | 74481326 - 74641042 | T - 88.89% | TRUE | TRUE |
| 16 | 74481326 - 74641042 | | TRUE | TRUE |
| 16 | 74481326 - 74641042 | | FALSE | TRUE |
| 16 | 74481326 - 74641042 | | FALSE | TRUE |
| 17 | 7529552 - 7531194 | T - 75.00% | TRUE | TRUE |
| 17 | 7529552 - 7531194 | | TRUE | TRUE |
| 19 | 1065930 - 1086627 | F - 27.27% | TRUE | FALSE |
| 19 | 1065930 - 1086627 | | FALSE | TRUE |
| 19 | 1065930 - 1086627 | | TRUE | TRUE |
| 1 | 27561007 - 27635110 | | FALSE | TRUE |
| 1 | 27561007 - 27635110 | T - 77.78% | TRUE | TRUE |
| 2 | 168810530 - 169104651 | F - 16.67% | TRUE | FALSE |
| 2 | 168810530 - 169104651 | | TRUE | TRUE |
| 3 | 69068978 - 69101484 | F - 41.67% | TRUE | TRUE |
| 3 | 69068978 - 69101484 | | TRUE | TRUE |
| 3 | 69068978 - 69101484 | | TRUE | TRUE |
| 3 | 69068978 - 69101484 | | TRUE | TRUE |
| 8 | 24151553 - 24216531 | | TRUE | TRUE |
| 8 | 24151553 - 24216531 | | FALSE | TRUE |
| 8 | 24151553 - 24216531 | F - 42.11% | TRUE | TRUE |
| 8 | 24151553 - 24216531 | | TRUE | TRUE |
| 9 | 94325373 - 94712444 | | TRUE | FALSE |
| 9 | 94325373 - 94712444 | T - 66.67% | TRUE | TRUE |
| 9 | 94325373 - 94712444 | F - 33.33% | TRUE | TRUE |
| 9 | 94325373 - 94712444 | F - 44.44% | TRUE | FALSE |
| 9 | 94325373 - 94712444 | | TRUE | TRUE |
| 9 | 94325373 - 94712444 | T - 66.67% | TRUE | TRUE |
| 9 | 94325373 - 94712444 | T - 55.56% | TRUE | TRUE |
| 9 | 94325373 - 94712444 | F - 11.11% | TRUE | TRUE |
| 9 | 94325373 - 94712444 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 9 | 94325373 - 94712444 | | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | F - 11.11% | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | F - 44.44% | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | F - 33.33% | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | F - 11.11% | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | F - 22.22% | TRUE | TRUE |
| | 9 | 94325373 - 94712444 | F - 11.11% | TRUE | TRUE |
| X | | 103031504 - 103087212 | | TRUE | FALSE |
| X | | 103031504 - 103087212 | F - 16.67% | TRUE | TRUE |
| Y | | 22737611 - 22755040 | T - 71.43% | TRUE | FALSE |
| Y | | 22737611 - 22755040 | T - 57.14% | TRUE | FALSE |
| Y | | 22737611 - 22755040 | T - 100.00% | TRUE | FALSE |
| Y | | 22737611 - 22755040 | F - 14.29% | TRUE | FALSE |
| Y | | 22737611 - 22755040 | T - 71.43% | TRUE | TRUE |
| Y | | 22737611 - 22755040 | F - 14.29% | FALSE | TRUE |
| Y | | 22737611 - 22755040 | | TRUE | TRUE |
| Y | | 22737611 - 22755040 | F - 28.57% | TRUE | TRUE |
| Y | | 22737611 - 22755040 | | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | | TRUE | FALSE |
| | 10 | 47742393 - 47770871 | | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | F - 7.69% | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | F - 7.69% | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | F - 7.69% | TRUE | TRUE |
| | 10 | 47742393 - 47770871 | | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | | TRUE | FALSE |
| | 10 | 47157983 - 47174122 | | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | F - 20.00% | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | F - 20.00% | TRUE | TRUE |
| | 10 | 47157983 - 47174122 | | TRUE | TRUE |
| | 11 | 1874200 - 1913497 | | TRUE | TRUE |
| | 11 | 1874200 - 1913497 | F - 5.00% | TRUE | TRUE |
| | 11 | 1874200 - 1913497 | | TRUE | TRUE |
| | 11 | 86511282 - 86663886 | F - 10.00% | TRUE | TRUE |
| | 11 | 86511282 - 86663886 | | FALSE | TRUE |
| | 11 | 86511282 - 86663886 | | FALSE | TRUE |
| | 12 | 56810157 - 56843200 | | TRUE | TRUE |
| | 12 | 56810157 - 56843200 | | FALSE | TRUE |
| | 12 | 56810157 - 56843200 | T - 66.67% | FALSE | TRUE |
| | 12 | 56810157 - 56843200 | | FALSE | TRUE |
| | 12 | 56810157 - 56843200 | | FALSE | TRUE |
| | 12 | 56810157 - 56843200 | | TRUE | TRUE |
| | 15 | 69039580 - 69113261 | | TRUE | TRUE |
| | 15 | 69039580 - 69113261 | | TRUE | TRUE |
| | 15 | 69039580 - 69113261 | F - 5.88% | TRUE | TRUE |
| | 17 | 44594068 - 44657088 | | TRUE | FALSE |
| | 17 | 44594068 - 44657088 | | TRUE | TRUE |
| | 17 | 44594068 - 44657088 | F - 12.50% | TRUE | TRUE |
| | 19 | 52892095 - 52901010 | T - 80.00% | TRUE | TRUE |
| | 19 | 52892095 - 52901010 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 21 | 17442842 - 17982094 | | TRUE | TRUE |
| 21 | 17442842 - 17982094 | | TRUE | TRUE |
| 21 | 17442842 - 17982094 | F - 30.77% | TRUE | TRUE |
| 21 | 17442842 - 17982094 | | TRUE | TRUE |
| 21 | 17442842 - 17982094 | | FALSE | TRUE |
| 1 | 45265897 - 45271667 | | TRUE | FALSE |
| 1 | 45265897 - 45271667 | F - 20.00% | TRUE | TRUE |
| X | 131337053 - 131353475 | | TRUE | FALSE |
| X | 131337053 - 131353475 | | TRUE | TRUE |
| X | 131337053 - 131353475 | F - 11.11% | TRUE | TRUE |
| 2 | 189896622 - 190044605 | | TRUE | TRUE |
| 2 | 189896622 - 190044605 | | TRUE | TRUE |
| 2 | 189896622 - 190044605 | | TRUE | TRUE |
| 2 | 189896622 - 190044605 | F - 33.33% | TRUE | TRUE |
| 2 | 189896622 - 190044605 | | TRUE | TRUE |
| 2 | 191894302 - 192038902 | | TRUE | FALSE |
| 2 | 191894302 - 192038902 | | TRUE | TRUE |
| 2 | 191894302 - 192038902 | F - 4.76% | TRUE | TRUE |
| 2 | 191894302 - 192038902 | | TRUE | TRUE |
| 2 | 191894302 - 192038902 | | FALSE | TRUE |
| 2 | 191894302 - 192038902 | | FALSE | TRUE |
| 3 | 49842638 - 49851391 | F - 7.69% | FALSE | TRUE |
| 3 | 49842638 - 49851391 | | TRUE | TRUE |
| 3 | 49842638 - 49851391 | | TRUE | TRUE |
| 3 | 49842638 - 49851391 | F - 15.38% | TRUE | TRUE |
| 3 | 49842638 - 49851391 | F - 30.77% | TRUE | TRUE |
| 3 | 49842638 - 49851391 | F - 15.38% | TRUE | TRUE |
| 4 | 159690182 - 159829201 | | TRUE | TRUE |
| 4 | 159690182 - 159829201 | F - 20.00% | TRUE | TRUE |
| 4 | 159690182 - 159829201 | F - 10.00% | TRUE | TRUE |
| 4 | 159690182 - 159829201 | F - 30.00% | TRUE | TRUE |
| 4 | 159690182 - 159829201 | F - 10.00% | FALSE | TRUE |
| 4 | 159690182 - 159829201 | | TRUE | TRUE |
| 4 | 25121627 - 25162204 | | TRUE | TRUE |
| 4 | 25121627 - 25162204 | T - 84.62% | TRUE | TRUE |
| 4 | 25121627 - 25162204 | T - 69.23% | TRUE | TRUE |
| 4 | 25121627 - 25162204 | | FALSE | TRUE |
| 6 | 21665003 - 22214734 | | TRUE | TRUE |
| 6 | 21665003 - 22214734 | F - 37.50% | TRUE | TRUE |
| 6 | 21665003 - 22214734 | | TRUE | TRUE |
| 6 | 21665003 - 22214734 | F - 12.50% | TRUE | TRUE |
| 6 | 21665003 - 22214734 | | TRUE | TRUE |
| 6 | 21665003 - 22214734 | | FALSE | TRUE |
| 6 | 21665003 - 22214734 | | TRUE | TRUE |
| 6 | 24775159 - 24786327 | | TRUE | TRUE |
| 6 | 24775159 - 24786327 | T - 58.33% | TRUE | TRUE |
| 6 | 24775159 - 24786327 | F - 8.33% | FALSE | TRUE |
| 6 | 157802165 - 158099178 | F - 13.33% | TRUE | FALSE |
| 6 | 157802165 - 158099178 | | TRUE | TRUE |
| 6 | 157802165 - 158099178 | T - 80.00% | TRUE | TRUE |
| 6 | 157802165 - 158099178 | F - 13.33% | TRUE | TRUE |
| 6 | 157802165 - 158099178 | | TRUE | TRUE |
| 6 | 157802165 - 158099178 | T - 60.00% | FALSE | TRUE |
| 6 | 157802165 - 158099178 | | FALSE | TRUE |
| 6 | 32546546 - 32578053 | | TRUE | FALSE |
| 6 | 32546546 - 32578053 | | TRUE | TRUE |
| 6 | 32546546 - 32578053 | | TRUE | TRUE |
| 6 | 32546546 - 32578053 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 6 | 32546546 - 32578053 | | TRUE | TRUE |
| | 6 | 32546546 - 32578053 | | FALSE | TRUE |
| | 6 | 32546546 - 32578053 | T - 92.31% | TRUE | TRUE |
| | 7 | 37960163 - 37991543 | | TRUE | FALSE |
| | 7 | 37960163 - 37991543 | T - 75.00% | TRUE | TRUE |
| | 7 | 37960163 - 37991543 | | FALSE | TRUE |
| | 8 | 130853716 - 131029375 | F - 19.44% | TRUE | TRUE |
| | 8 | 130853716 - 131029375 | | TRUE | TRUE |
| | 8 | 130853716 - 131029375 | F - 11.11% | TRUE | TRUE |
| X | | 73040486 - 73072588 | T - 75.00% | TRUE | TRUE |
| X | | 73040486 - 73072588 | | TRUE | TRUE |
| | 10 | 46549955 - 46641045 | F - 28.57% | TRUE | TRUE |
| | 10 | 46549955 - 46641045 | | TRUE | FALSE |
| | 10 | 46549955 - 46641045 | | FALSE | TRUE |
| | 13 | 31480312 - 31499709 | F - 40.00% | TRUE | TRUE |
| | 13 | 31480312 - 31499709 | T - 80.00% | TRUE | TRUE |
| | 13 | 31480312 - 31499709 | T - 60.00% | TRUE | TRUE |
| | 13 | 31480312 - 31499709 | | TRUE | TRUE |
| | 13 | 31480312 - 31499709 | T - 100.00% | TRUE | TRUE |
| | 13 | 31480312 - 31499709 | | FALSE | TRUE |
| | 14 | 92335755 - 92414167 | F - 22.22% | TRUE | TRUE |
| | 14 | 92335755 - 92414167 | F - 22.22% | TRUE | TRUE |
| | 14 | 92335755 - 92414167 | | TRUE | TRUE |
| | 14 | 92335755 - 92414167 | F - 22.22% | TRUE | TRUE |
| | 14 | 92335755 - 92414167 | | FALSE | TRUE |
| | 15 | 51633713 - 51700210 | T - 60.00% | TRUE | TRUE |
| | 15 | 51633713 - 51700210 | | FALSE | TRUE |
| | 15 | 51633713 - 51700210 | | TRUE | TRUE |
| | 15 | 51633713 - 51700210 | T - 90.00% | FALSE | TRUE |
| | 15 | 51633713 - 51700210 | F - 40.00% | TRUE | TRUE |
| | 15 | 51633713 - 51700210 | F - 20.00% | TRUE | TRUE |
| | 15 | 51633713 - 51700210 | F - 30.00% | TRUE | TRUE |
| | 15 | 51633713 - 51700210 | F - 20.00% | TRUE | TRUE |
| | 15 | 91446222 - 91465815 | F - 8.33% | TRUE | FALSE |
| | 15 | 91446222 - 91465815 | | TRUE | TRUE |
| | 16 | 82660399 - 83830215 | F - 18.75% | TRUE | TRUE |
| | 16 | 82660399 - 83830215 | | TRUE | TRUE |
| | 16 | 82660399 - 83830215 | | TRUE | TRUE |
| | 16 | 82660399 - 83830215 | | FALSE | TRUE |
| | 16 | 82660399 - 83830215 | F - 25.00% | TRUE | TRUE |
| | 17 | 30264044 - 30328064 | | TRUE | FALSE |
| | 17 | 30264044 - 30328064 | F - 14.29% | TRUE | TRUE |
| | 17 | 30264044 - 30328064 | | TRUE | TRUE |
| | 17 | 30264044 - 30328064 | | TRUE | TRUE |
| | 18 | 20513290 - 20606449 | | TRUE | TRUE |
| | 18 | 20513290 - 20606449 | F - 23.08% | TRUE | TRUE |
| | 18 | 20513290 - 20606449 | F - 7.69% | FALSE | TRUE |
| | 18 | 20513290 - 20606449 | F - 38.46% | FALSE | TRUE |
| | 18 | 20513290 - 20606449 | F - 7.69% | FALSE | TRUE |
| | 18 | 6941743 - 7117813 | | TRUE | TRUE |
| | 18 | 6941743 - 7117813 | | TRUE | TRUE |
| | 18 | 6941743 - 7117813 | | FALSE | TRUE |
| | 18 | 6941743 - 7117813 | | TRUE | TRUE |
| | 18 | 6941743 - 7117813 | | FALSE | TRUE |
| | 18 | 6941743 - 7117813 | F - 27.27% | FALSE | TRUE |
| | 18 | 6941743 - 7117813 | | TRUE | TRUE |
| | 19 | 51125234 - 51171651 | | TRUE | TRUE |
| | 19 | 51125234 - 51171651 | T - 100.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 19 | 51125234 - 51171651 | | TRUE | TRUE |
| 19 | 51125234 - 51171651 | | FALSE | TRUE |
| 20 | 25604681 - 25658710 | | TRUE | TRUE |
| 20 | 25604681 - 25658710 | T - 57.14% | TRUE | TRUE |
| 20 | 25604681 - 25658710 | | FALSE | TRUE |
| 22 | 39410088 - 39414931 | F - 33.33% | FALSE | TRUE |
| 22 | 39410088 - 39414931 | | FALSE | TRUE |
| 10 | 91339254 - 91405329 | | TRUE | FALSE |
| 10 | 91339254 - 91405329 | T - 83.33% | TRUE | TRUE |
| 10 | 91339254 - 91405329 | | FALSE | TRUE |
| 1 | 236378422 - 236445339 | T - 62.50% | TRUE | TRUE |
| 1 | 236378422 - 236445339 | F - 25.00% | TRUE | TRUE |
| 1 | 236378422 - 236445339 | F - 37.50% | TRUE | TRUE |
| 1 | 236378422 - 236445339 | | FALSE | TRUE |
| 2 | 171784948 - 171823643 | F - 5.56% | TRUE | FALSE |
| 2 | 171784948 - 171823643 | | TRUE | TRUE |
| 2 | 163123589 - 163175213 | | TRUE | TRUE |
| 2 | 163123589 - 163175213 | T - 57.14% | TRUE | TRUE |
| 2 | 163123589 - 163175213 | | FALSE | TRUE |
| 3 | 12045862 - 12233532 | T - 100.00% | TRUE | TRUE |
| 3 | 12045862 - 12233532 | | TRUE | TRUE |
| 3 | 196715492 - 196756687 | | TRUE | FALSE |
| 3 | 196715492 - 196756687 | F - 9.09% | TRUE | TRUE |
| 5 | 31400602 - 31532303 | | TRUE | TRUE |
| 5 | 31400602 - 31532303 | | TRUE | FALSE |
| 5 | 31400602 - 31532303 | | TRUE | TRUE |
| 5 | 31400602 - 31532303 | F - 41.94% | TRUE | TRUE |
| 5 | 31400602 - 31532303 | F - 3.23% | FALSE | TRUE |
| 5 | 31400602 - 31532303 | F - 3.23% | FALSE | TRUE |
| 5 | 31400602 - 31532303 | | TRUE | TRUE |
| 5 | 31400602 - 31532303 | | TRUE | TRUE |
| 5 | 31400602 - 31532303 | | FALSE | TRUE |
| 5 | 136953189 - 137071779 | | TRUE | FALSE |
| 5 | 136953189 - 137071779 | | TRUE | TRUE |
| 5 | 136953189 - 137071779 | | TRUE | TRUE |
| 5 | 136953189 - 137071779 | | TRUE | TRUE |
| 5 | 136953189 - 137071779 | F - 13.64% | FALSE | TRUE |
| 5 | 136953189 - 137071779 | | TRUE | TRUE |
| 5 | 136953189 - 137071779 | | FALSE | TRUE |
| 6 | 27215480 - 27224403 | | TRUE | TRUE |
| 6 | 27215480 - 27224403 | F - 20.00% | TRUE | TRUE |
| 6 | 27215480 - 27224403 | | FALSE | TRUE |
| 6 | 3722836 - 3752260 | | TRUE | TRUE |
| 6 | 3722836 - 3752260 | F - 16.67% | TRUE | TRUE |
| 6 | 3722836 - 3752260 | | FALSE | TRUE |
| 6 | 43021767 - 43027544 | F - 21.43% | TRUE | TRUE |
| 6 | 43021767 - 43027544 | F - 7.14% | TRUE | TRUE |
| 6 | 43021767 - 43027544 | | TRUE | TRUE |
| 7 | 73703803 - 73820273 | T - 50.00% | TRUE | TRUE |
| 7 | 73703803 - 73820273 | F - 7.14% | TRUE | TRUE |
| 7 | 73703803 - 73820273 | | TRUE | TRUE |
| 7 | 73703803 - 73820273 | F - 7.14% | FALSE | TRUE |
| X | 2527306 - 2575270 | | TRUE | TRUE |
| X | 2527306 - 2575270 | F - 28.57% | FALSE | TRUE |
| X | 294668 - 347690 | | TRUE | FALSE |
| X | 294668 - 347690 | F - 7.69% | TRUE | TRUE |
| X | 294668 - 347690 | | FALSE | TRUE |
| 10 | 48736874 - 48827966 | F - 28.57% | TRUE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 10 | 48736874 - 48827966 | | TRUE | FALSE |
| 10 | 48736874 - 48827966 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 9.09% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 34.09% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | F - 11.36% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | TRUE | FALSE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | TRUE | FALSE |
| 10 | 61786056 - 62493284 | F - 9.09% | FALSE | TRUE |
| 10 | 61786056 - 62493284 | F - 6.82% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | F - 4.55% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 4.55% | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | F - 4.55% | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | F - 2.27% | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | F - 6.82% | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | TRUE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 10 | 61786056 - 62493284 | | FALSE | TRUE |
| 11 | 9302201 - 9336327 | F - 44.44% | TRUE | TRUE |
| 11 | 9302201 - 9336327 | | TRUE | TRUE |
| 14 | 30421603 - 30766249 | | TRUE | TRUE |
| 14 | 30421603 - 30766249 | F - 33.33% | TRUE | TRUE |
| 14 | 64550950 - 64805317 | | TRUE | TRUE |
| 14 | 64550950 - 64805317 | | TRUE | FALSE |
| 14 | 64550950 - 64805317 | T - 70.83% | FALSE | TRUE |
| 14 | 64550950 - 64805317 | F - 16.67% | FALSE | TRUE |
| 15 | 89054786 - 89089912 | | TRUE | TRUE |
| 15 | 89054786 - 89089912 | F - 36.36% | TRUE | TRUE |
| 15 | 89054786 - 89089912 | T - 72.73% | TRUE | TRUE |
| 17 | 44363862 - 44439163 | | TRUE | FALSE |
| 17 | 44363862 - 44439163 | | TRUE | TRUE |
| 17 | 44363862 - 44439163 | F - 9.09% | TRUE | TRUE |
| 17 | 26684646 - 26690705 | | TRUE | TRUE |
| 17 | 26684646 - 26690705 | F - 40.00% | TRUE | TRUE |
| 17 | 26684646 - 26690705 | | TRUE | TRUE |
| 19 | 18111944 - 18124911 | | TRUE | FALSE |
| 19 | 18111944 - 18124911 | | TRUE | TRUE |
| 19 | 18111944 - 18124911 | F - 40.00% | TRUE | TRUE |
| 19 | 18367906 - 18385319 | T - 100.00% | TRUE | TRUE |
| 19 | 18367906 - 18385319 | F - 16.67% | TRUE | TRUE |

| | | | | | |
|-------------|----|-----------------------|------------|-------|-------|
| | 19 | 18367906 - 18385319 | | TRUE | TRUE |
| | 19 | 18367906 - 18385319 | T - 50.00% | TRUE | TRUE |
| | 19 | 18367906 - 18385319 | | TRUE | TRUE |
| | 19 | 18367906 - 18385319 | | TRUE | TRUE |
| | 19 | 18367906 - 18385319 | F - 8.33% | TRUE | TRUE |
| | 19 | 18367906 - 18385319 | T - 75.00% | TRUE | TRUE |
| | 20 | 62681189 - 62703700 | | TRUE | TRUE |
| | 20 | 62681189 - 62703700 | F - 8.00% | FALSE | TRUE |
| 6_cox_hap2 | | 3357290 - 3375218 | | TRUE | FALSE |
| 6_cox_hap2 | | 3357290 - 3375218 | T - 61.11% | FALSE | TRUE |
| 6_dbb_hap3 | | 3133118 - 3151046 | | TRUE | FALSE |
| 6_dbb_hap3 | | 3133118 - 3151046 | T - 61.11% | FALSE | TRUE |
| 6_qbl_hap6 | | 2922643 - 2927703 | | TRUE | TRUE |
| 6_qbl_hap6 | | 2922643 - 2927703 | T - 86.67% | TRUE | TRUE |
| 6_qbl_hap6 | | 2922643 - 2927703 | F - 33.33% | TRUE | TRUE |
| 6_ssto_hap7 | | 2959804 - 2964865 | | TRUE | TRUE |
| 6_ssto_hap7 | | 2959804 - 2964865 | T - 86.67% | TRUE | TRUE |
| 6_ssto_hap7 | | 2959804 - 2964865 | F - 33.33% | TRUE | TRUE |
| | 1 | 32716840 - 32751766 | T - 83.33% | TRUE | TRUE |
| | 1 | 32716840 - 32751766 | | TRUE | TRUE |
| | 1 | 192778169 - 192781407 | | TRUE | TRUE |
| | 1 | 192778169 - 192781407 | F - 16.67% | FALSE | TRUE |
| | 1 | 201159953 - 201198080 | | TRUE | TRUE |
| | 1 | 201159953 - 201198080 | | TRUE | FALSE |
| | 1 | 201159953 - 201198080 | T - 77.78% | TRUE | TRUE |
| | 1 | 201159953 - 201198080 | T - 55.56% | FALSE | TRUE |
| | 1 | 201159953 - 201198080 | | FALSE | TRUE |
| | 1 | 43391046 - 43424847 | F - 10.00% | TRUE | TRUE |
| | 1 | 43391046 - 43424847 | | FALSE | TRUE |
| | 1 | 43391046 - 43424847 | F - 10.00% | TRUE | TRUE |
| | 1 | 43391046 - 43424847 | F - 10.00% | TRUE | TRUE |
| | 1 | 43391046 - 43424847 | T - 50.00% | FALSE | TRUE |
| | 1 | 247460714 - 247495148 | | TRUE | TRUE |
| | 1 | 247460714 - 247495148 | F - 27.27% | TRUE | TRUE |
| | 1 | 247460714 - 247495148 | F - 9.09% | TRUE | TRUE |
| | 3 | 129158968 - 129239198 | | TRUE | TRUE |
| | 3 | 129158968 - 129239198 | T - 54.00% | TRUE | FALSE |
| | 3 | 129158968 - 129239198 | | FALSE | TRUE |
| | 3 | 129158968 - 129239198 | | TRUE | TRUE |
| | 3 | 129158968 - 129239198 | | TRUE | TRUE |
| | 3 | 129158968 - 129239198 | | TRUE | TRUE |
| | 3 | 160117062 - 160152750 | F - 2.56% | TRUE | FALSE |
| | 3 | 160117062 - 160152750 | | TRUE | FALSE |
| | 3 | 160117062 - 160152750 | | TRUE | TRUE |
| | 3 | 160117062 - 160152750 | | FALSE | TRUE |
| | 3 | 172468472 - 172539264 | | TRUE | TRUE |
| | 3 | 172468472 - 172539264 | | TRUE | TRUE |
| | 3 | 172468472 - 172539264 | | TRUE | TRUE |
| | 3 | 172468472 - 172539264 | F - 24.00% | TRUE | TRUE |
| | 3 | 172468472 - 172539264 | | TRUE | TRUE |
| | 3 | 172468472 - 172539264 | F - 16.00% | TRUE | TRUE |
| | 3 | 172468472 - 172539264 | | TRUE | TRUE |
| | 4 | 142944313 - 143768585 | | TRUE | TRUE |
| | 4 | 142944313 - 143768585 | T - 62.50% | TRUE | TRUE |
| | 4 | 142944313 - 143768585 | | TRUE | TRUE |
| | 4 | 142944313 - 143768585 | F - 43.75% | TRUE | TRUE |
| | 4 | 142944313 - 143768585 | T - 50.00% | FALSE | TRUE |
| | 4 | 142944313 - 143768585 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 4 | 142944313 - 143768585 | | FALSE | TRUE |
| 4 | 142944313 - 143768585 | | FALSE | TRUE |
| 4 | 142944313 - 143768585 | | FALSE | TRUE |
| 4 | 142944313 - 143768585 | | TRUE | TRUE |
| 4 | 142944313 - 143768585 | F - 21.88% | FALSE | TRUE |
| 4 | 142944313 - 143768585 | T - 62.50% | FALSE | TRUE |
| 4 | 142944313 - 143768585 | | FALSE | TRUE |
| 4 | 142944313 - 143768585 | T - 59.38% | FALSE | TRUE |
| 5 | 110998318 - 111333161 | | TRUE | FALSE |
| 5 | 110998318 - 111333161 | | FALSE | TRUE |
| 5 | 110998318 - 111333161 | F - 5.26% | TRUE | TRUE |
| 5 | 110998318 - 111333161 | F - 5.26% | TRUE | TRUE |
| 5 | 110998318 - 111333161 | F - 7.89% | TRUE | TRUE |
| 5 | 110998318 - 111333161 | F - 7.89% | TRUE | TRUE |
| 5 | 110998318 - 111333161 | F - 2.63% | TRUE | TRUE |
| 5 | 863850 - 892939 | | TRUE | TRUE |
| 5 | 863850 - 892939 | F - 17.24% | TRUE | TRUE |
| 5 | 863850 - 892939 | | FALSE | TRUE |
| 5 | 863850 - 892939 | | FALSE | TRUE |
| 6 | 31629006 - 31634060 | | TRUE | TRUE |
| 6 | 31629006 - 31634060 | T - 86.67% | TRUE | TRUE |
| 6 | 31629006 - 31634060 | F - 33.33% | TRUE | TRUE |
| 8 | 42273993 - 42397069 | | TRUE | FALSE |
| 8 | 42273993 - 42397069 | | TRUE | FALSE |
| 8 | 42273993 - 42397069 | F - 5.56% | FALSE | TRUE |
| 8 | 42273993 - 42397069 | F - 5.56% | TRUE | TRUE |
| 8 | 42273993 - 42397069 | | FALSE | TRUE |
| 9 | 35673710 - 35681156 | T - 57.14% | TRUE | TRUE |
| 9 | 35673710 - 35681156 | | FALSE | TRUE |
| 9 | 35673710 - 35681156 | T - 57.14% | FALSE | TRUE |
| 9 | 35673710 - 35681156 | T - 57.14% | FALSE | TRUE |
| 9 | 35673710 - 35681156 | T - 71.43% | TRUE | TRUE |
| 9 | 35673710 - 35681156 | | FALSE | TRUE |
| 9 | 35673710 - 35681156 | | FALSE | TRUE |
| 9 | 35673710 - 35681156 | | FALSE | TRUE |
| 9 | 35673710 - 35681156 | T - 71.43% | FALSE | TRUE |
| 11 | 27676440 - 27743605 | | TRUE | TRUE |
| 11 | 27676440 - 27743605 | F - 5.56% | FALSE | TRUE |
| 11 | 27676440 - 27743605 | F - 16.67% | FALSE | TRUE |
| 11 | 27676440 - 27743605 | | TRUE | TRUE |
| 12 | 104359582 - 104382656 | | TRUE | TRUE |
| 12 | 104359582 - 104382656 | | FALSE | TRUE |
| 12 | 104359582 - 104382656 | F - 18.18% | TRUE | TRUE |
| 16 | 2325877 - 2390747 | | TRUE | TRUE |
| 16 | 2325877 - 2390747 | | TRUE | TRUE |
| 16 | 2325877 - 2390747 | T - 85.71% | TRUE | TRUE |
| 16 | 2325877 - 2390747 | T - 85.71% | TRUE | TRUE |
| 16 | 2325877 - 2390747 | | TRUE | TRUE |
| 16 | 2325877 - 2390747 | T - 100.00% | TRUE | TRUE |
| 16 | 2325877 - 2390747 | | FALSE | TRUE |
| 16 | 2325877 - 2390747 | | FALSE | TRUE |
| 20 | 34129770 - 34145405 | F - 3.45% | TRUE | TRUE |
| 20 | 34129770 - 34145405 | F - 6.90% | TRUE | FALSE |
| 20 | 34129770 - 34145405 | | TRUE | TRUE |
| 20 | 34129770 - 34145405 | | TRUE | TRUE |
| 21 | 30428126 - 30446118 | F - 10.53% | TRUE | TRUE |
| 21 | 30428126 - 30446118 | | TRUE | TRUE |
| 22 | 37576206 - 37595425 | | TRUE | TRUE |

| | | | | | |
|-------------|----|-----------------------|-------------|-------|-------|
| | 22 | 37576206 - 37595425 | F - 13.33% | FALSE | TRUE |
| 6_apd_hap1 | | 3162290 - 3180225 | | TRUE | FALSE |
| 6_apd_hap1 | | 3162290 - 3180225 | T - 61.11% | FALSE | TRUE |
| 6_dbb_hap3 | | 2914585 - 2919640 | | TRUE | TRUE |
| 6_dbb_hap3 | | 2914585 - 2919640 | F - 40.00% | TRUE | TRUE |
| 6_dbb_hap3 | | 2914585 - 2919640 | T - 86.67% | TRUE | TRUE |
| 6_dbb_hap3 | | 2914585 - 2919640 | F - 33.33% | TRUE | TRUE |
| 6_mann_hap4 | | 2971896 - 2976950 | | TRUE | TRUE |
| 6_mann_hap4 | | 2971896 - 2976950 | T - 86.67% | TRUE | TRUE |
| 6_mann_hap4 | | 2971896 - 2976950 | F - 33.33% | TRUE | TRUE |
| 6_mcf_hap5 | | 3008686 - 3013740 | | TRUE | TRUE |
| 6_mcf_hap5 | | 3008686 - 3013740 | T - 86.67% | TRUE | TRUE |
| 6_mcf_hap5 | | 3008686 - 3013740 | F - 33.33% | TRUE | TRUE |
| 6_mcf_hap5 | | 3227409 - 3245344 | | TRUE | FALSE |
| 6_mcf_hap5 | | 3227409 - 3245344 | T - 61.11% | FALSE | TRUE |
| 6_qbl_hap6 | | 3141328 - 3159267 | | TRUE | FALSE |
| 6_qbl_hap6 | | 3141328 - 3159267 | T - 61.11% | FALSE | TRUE |
| | 13 | 113760105 - 113774995 | | TRUE | TRUE |
| | 13 | 113760105 - 113774995 | F - 9.09% | TRUE | FALSE |
| | 1 | 16340523 - 16346089 | | FALSE | TRUE |
| | 1 | 16340523 - 16346089 | F - 7.69% | TRUE | TRUE |
| | 1 | 16340523 - 16346089 | F - 7.69% | TRUE | TRUE |
| | 1 | 16524349 - 16539140 | | TRUE | TRUE |
| | 1 | 16524349 - 16539140 | F - 11.11% | TRUE | TRUE |
| | 1 | 16524349 - 16539140 | F - 33.33% | TRUE | TRUE |
| | 1 | 16524349 - 16539140 | | FALSE | TRUE |
| | 1 | 47715811 - 47779819 | | TRUE | TRUE |
| | 1 | 47715811 - 47779819 | | TRUE | FALSE |
| | 1 | 47715811 - 47779819 | F - 11.11% | FALSE | TRUE |
| | 2 | 27650657 - 27665126 | | TRUE | TRUE |
| | 2 | 27650657 - 27665126 | F - 6.67% | TRUE | TRUE |
| | 2 | 27650657 - 27665126 | | TRUE | TRUE |
| | 4 | 146402346 - 146480325 | | TRUE | TRUE |
| | 4 | 146402346 - 146480325 | F - 4.76% | FALSE | TRUE |
| | 4 | 146402346 - 146480325 | | TRUE | TRUE |
| | 5 | 78293429 - 78531861 | | TRUE | TRUE |
| | 5 | 78293429 - 78531861 | T - 68.75% | TRUE | TRUE |
| | 6 | 130334844 - 130462594 | T - 80.00% | TRUE | TRUE |
| | 6 | 130334844 - 130462594 | T - 100.00% | TRUE | TRUE |
| | 6 | 130334844 - 130462594 | | FALSE | TRUE |
| | 6 | 130334844 - 130462594 | | TRUE | TRUE |
| | 6 | 130334844 - 130462594 | | TRUE | TRUE |
| | 6 | 130334844 - 130462594 | | FALSE | TRUE |
| | 6 | 130334844 - 130462594 | | TRUE | TRUE |
| | 8 | 439790 - 495781 | | TRUE | TRUE |
| | 8 | 439790 - 495781 | F - 20.00% | TRUE | FALSE |
| | 9 | 46687462 - 46748386 | | TRUE | FALSE |
| | 9 | 46687462 - 46748386 | T - 100.00% | TRUE | TRUE |
| | 9 | 46687462 - 46748386 | | TRUE | TRUE |
| | 10 | 30722866 - 30750762 | F - 45.45% | TRUE | TRUE |
| | 10 | 30722866 - 30750762 | | TRUE | TRUE |
| | 10 | 111967363 - 112047123 | F - 5.26% | TRUE | FALSE |
| | 10 | 111967363 - 112047123 | | TRUE | TRUE |
| | 10 | 111967363 - 112047123 | | TRUE | TRUE |
| | 10 | 111967363 - 112047123 | | TRUE | TRUE |
| | 11 | 129939716 - 130014706 | | TRUE | TRUE |
| | 11 | 129939716 - 130014706 | F - 10.53% | TRUE | TRUE |
| | 11 | 6416355 - 6440644 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 11 | 6416355 - 6440644 | F - 9.52% | TRUE | TRUE |
| 11 | 6416355 - 6440644 | F - 4.76% | TRUE | TRUE |
| 11 | 6416355 - 6440644 | | FALSE | TRUE |
| 11 | 6416355 - 6440644 | | FALSE | TRUE |
| 13 | 73629114 - 73651676 | T - 80.00% | TRUE | TRUE |
| 13 | 73629114 - 73651676 | F - 30.00% | TRUE | TRUE |
| 13 | 73629114 - 73651676 | F - 40.00% | TRUE | TRUE |
| 13 | 73629114 - 73651676 | | TRUE | TRUE |
| 17 | 16120509 - 16229573 | | TRUE | TRUE |
| 17 | 16120509 - 16229573 | F - 9.09% | TRUE | TRUE |
| 17 | 78234660 - 78372581 | | TRUE | TRUE |
| 17 | 78234660 - 78372581 | F - 6.25% | TRUE | TRUE |
| 17 | 78234660 - 78372581 | | TRUE | TRUE |
| 17 | 78234660 - 78372581 | | TRUE | TRUE |
| 17 | 78234660 - 78372581 | | TRUE | TRUE |
| 17 | 37913968 - 38020441 | T - 54.55% | TRUE | TRUE |
| 17 | 37913968 - 38020441 | | TRUE | TRUE |
| 17 | 40852293 - 40897071 | | TRUE | TRUE |
| 17 | 40852293 - 40897071 | T - 66.67% | TRUE | TRUE |
| 17 | 40852293 - 40897071 | | TRUE | TRUE |
| 17 | 40852293 - 40897071 | | TRUE | TRUE |
| 17 | 40852293 - 40897071 | | FALSE | TRUE |
| 17 | 56566893 - 56595251 | T - 66.67% | TRUE | TRUE |
| 17 | 56566893 - 56595251 | | TRUE | TRUE |
| 17 | 56566893 - 56595251 | T - 66.67% | TRUE | TRUE |
| 17 | 45331208 - 45390077 | T - 100.00% | TRUE | TRUE |
| 17 | 45331208 - 45390077 | T - 75.00% | TRUE | TRUE |
| 17 | 45331208 - 45390077 | | TRUE | TRUE |
| 17 | 45331208 - 45390077 | | FALSE | TRUE |
| 17 | 45400656 - 45518678 | | TRUE | TRUE |
| 17 | 45400656 - 45518678 | T - 80.00% | TRUE | FALSE |
| 17 | 45400656 - 45518678 | | FALSE | TRUE |
| 17 | 45400656 - 45518678 | | FALSE | TRUE |
| 17 | 45400656 - 45518678 | | TRUE | TRUE |
| 17 | 45400656 - 45518678 | | FALSE | TRUE |
| 18 | 6729821 - 6915715 | | TRUE | TRUE |
| 18 | 6729821 - 6915715 | | FALSE | TRUE |
| 18 | 6729821 - 6915715 | T - 58.33% | FALSE | TRUE |
| 19 | 8367011 - 8373240 | | TRUE | TRUE |
| 19 | 8367011 - 8373240 | F - 16.67% | TRUE | TRUE |
| 2 | 6072819 - 6141407 | | TRUE | FALSE |
| 2 | 6072819 - 6141407 | F - 28.57% | TRUE | TRUE |
| 1 | 95285898 - 95360802 | T - 94.74% | TRUE | TRUE |
| 1 | 95285898 - 95360802 | | TRUE | FALSE |
| 1 | 95285898 - 95360802 | | TRUE | TRUE |
| 1 | 95285898 - 95360802 | F - 10.53% | FALSE | TRUE |
| 1 | 95285898 - 95360802 | F - 10.53% | TRUE | TRUE |
| 1 | 95285898 - 95360802 | F - 26.32% | FALSE | TRUE |
| 1 | 95285898 - 95360802 | | FALSE | TRUE |
| 1 | 100174259 - 100232187 | | TRUE | TRUE |
| 1 | 100174259 - 100232187 | | TRUE | TRUE |
| 1 | 100174259 - 100232187 | T - 57.14% | TRUE | TRUE |
| 1 | 100174259 - 100232187 | | TRUE | TRUE |
| 1 | 100174259 - 100232187 | T - 57.14% | TRUE | TRUE |
| 1 | 100174259 - 100232187 | T - 57.14% | TRUE | TRUE |
| 1 | 100174259 - 100232187 | F - 42.86% | TRUE | TRUE |
| 1 | 100174259 - 100232187 | | TRUE | TRUE |
| 1 | 100174259 - 100232187 | F - 14.29% | TRUE | TRUE |

| | | | | | |
|--------------|----|-----------------------|-------------|-------|-------|
| | 1 | 100174259 - 100232187 | | FALSE | TRUE |
| | 1 | 100174259 - 100232187 | T - 85.71% | FALSE | TRUE |
| | 1 | 100174259 - 100232187 | T - 85.71% | FALSE | TRUE |
| | 2 | 39663778 - 39892483 | | TRUE | TRUE |
| | 2 | 39663778 - 39892483 | F - 8.33% | FALSE | TRUE |
| | 2 | 170386259 - 170430424 | | TRUE | TRUE |
| | 2 | 170386259 - 170430424 | F - 5.56% | TRUE | TRUE |
| | 3 | 99548985 - 99833357 | F - 33.33% | TRUE | TRUE |
| | 3 | 99548985 - 99833357 | F - 5.56% | TRUE | TRUE |
| | 3 | 99548985 - 99833357 | F - 22.22% | TRUE | TRUE |
| | 3 | 99548985 - 99833357 | T - 66.67% | TRUE | TRUE |
| | 3 | 99548985 - 99833357 | | FALSE | TRUE |
| | 5 | 139739787 - 139754722 | | TRUE | FALSE |
| | 5 | 139739787 - 139754722 | | TRUE | TRUE |
| | 5 | 139739787 - 139754722 | T - 85.71% | TRUE | FALSE |
| | 7 | 6414126 - 6443608 | | TRUE | TRUE |
| | 7 | 6414126 - 6443608 | F - 16.67% | TRUE | FALSE |
| | 7 | 99036545 - 99055001 | | TRUE | TRUE |
| | 7 | 99036545 - 99055001 | F - 21.05% | TRUE | TRUE |
| | 7 | 99036545 - 99055001 | | TRUE | TRUE |
| | 7 | 99036545 - 99055001 | F - 47.37% | TRUE | TRUE |
| | 7 | 99036545 - 99055001 | F - 5.26% | TRUE | TRUE |
| X | | 65382391 - 65488709 | T - 72.22% | TRUE | TRUE |
| X | | 65382391 - 65488709 | | TRUE | TRUE |
| X | | 153712056 - 153715009 | F - 12.50% | TRUE | FALSE |
| X | | 153712056 - 153715009 | | TRUE | FALSE |
| | 12 | 49687485 - 49692481 | T - 66.67% | TRUE | TRUE |
| | 12 | 49687485 - 49692481 | | TRUE | TRUE |
| | 12 | 49687485 - 49692481 | T - 100.00% | FALSE | TRUE |
| | 12 | 123319295 - 123347507 | | TRUE | TRUE |
| | 12 | 123319295 - 123347507 | | FALSE | TRUE |
| | 12 | 123319295 - 123347507 | | FALSE | TRUE |
| | 12 | 123319295 - 123347507 | T - 55.56% | FALSE | TRUE |
| | 12 | 123319295 - 123347507 | | FALSE | TRUE |
| | 14 | 23235731 - 23241007 | | TRUE | TRUE |
| | 14 | 23235731 - 23241007 | F - 21.43% | TRUE | TRUE |
| | 14 | 77801364 - 77843452 | F - 40.00% | TRUE | TRUE |
| | 14 | 77801364 - 77843452 | | TRUE | TRUE |
| 17_ctg5_hap1 | | 193775 - 240669 | F - 20.00% | TRUE | TRUE |
| 17_ctg5_hap1 | | 193775 - 240669 | | TRUE | TRUE |
| | 17 | 41605211 - 41623762 | | TRUE | TRUE |
| | 17 | 41605211 - 41623762 | T - 92.86% | FALSE | TRUE |
| | 17 | 43002082 - 43025082 | | TRUE | TRUE |
| | 17 | 43002082 - 43025082 | T - 100.00% | FALSE | TRUE |
| | 20 | 4666797 - 4682236 | | FALSE | TRUE |
| | 20 | 4666797 - 4682236 | F - 33.33% | TRUE | TRUE |
| 6_apd_hap1 | | 873547 - 904496 | F - 5.26% | TRUE | FALSE |
| 6_apd_hap1 | | 873547 - 904496 | | TRUE | TRUE |
| 6_apd_hap1 | | 873547 - 904496 | | TRUE | TRUE |
| 6_cox_hap2 | | 3138625 - 3143680 | | TRUE | TRUE |
| 6_cox_hap2 | | 3138625 - 3143680 | T - 86.67% | TRUE | TRUE |
| | 2 | 120436743 - 120481191 | | TRUE | FALSE |
| | 2 | 120436743 - 120481191 | | TRUE | FALSE |
| | 2 | 120436743 - 120481191 | F - 8.33% | TRUE | TRUE |
| | 1 | 158149737 - 158156216 | T - 80.00% | TRUE | TRUE |
| | 1 | 158149737 - 158156216 | T - 100.00% | FALSE | TRUE |
| | 1 | 158149737 - 158156216 | T - 60.00% | TRUE | TRUE |
| | 1 | 158149737 - 158156216 | | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 2 | 56179254 - 56613309 | T - 50.00% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | F - 16.67% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | F - 16.67% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | F - 33.33% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | F - 33.33% | FALSE | TRUE |
| | 2 | 56179254 - 56613309 | | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | T - 83.33% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | T - 83.33% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | T - 66.67% | TRUE | TRUE |
| | 2 | 56179254 - 56613309 | | TRUE | TRUE |
| | 2 | 231921578 - 232037541 | | TRUE | TRUE |
| | 2 | 231921578 - 232037541 | | TRUE | TRUE |
| | 2 | 231921578 - 232037541 | T - 58.82% | TRUE | TRUE |
| | 2 | 73169165 - 73302747 | | TRUE | TRUE |
| | 2 | 73169165 - 73302747 | | TRUE | TRUE |
| | 2 | 73169165 - 73302747 | F - 3.33% | TRUE | TRUE |
| | 2 | 73169165 - 73302747 | F - 3.33% | TRUE | TRUE |
| | 2 | 73169165 - 73302747 | F - 3.33% | FALSE | TRUE |
| | 2 | 73169165 - 73302747 | | FALSE | TRUE |
| | 2 | 73169165 - 73302747 | | TRUE | TRUE |
| | 2 | 98272402 - 98280570 | | TRUE | TRUE |
| | 2 | 98272402 - 98280570 | T - 71.43% | TRUE | TRUE |
| | 2 | 160175490 - 160473203 | | TRUE | TRUE |
| | 2 | 160175490 - 160473203 | F - 4.17% | FALSE | TRUE |
| | 2 | 160175490 - 160473203 | | FALSE | TRUE |
| | 3 | 15111580 - 15140670 | F - 7.14% | TRUE | TRUE |
| | 3 | 15111580 - 15140670 | | TRUE | TRUE |
| | 3 | 15111580 - 15140670 | | TRUE | TRUE |
| | 5 | 102421704 - 102455855 | T - 54.55% | TRUE | TRUE |
| | 5 | 102421704 - 102455855 | | TRUE | TRUE |
| | 5 | 102421704 - 102455855 | T - 81.82% | TRUE | TRUE |
| | 5 | 102421704 - 102455855 | T - 81.82% | TRUE | TRUE |
| | 6 | 97590037 - 97731093 | T - 68.75% | TRUE | FALSE |
| | 6 | 97590037 - 97731093 | T - 50.00% | TRUE | TRUE |
| | 6 | 97590037 - 97731093 | F - 12.50% | FALSE | TRUE |
| | 6 | 97590037 - 97731093 | F - 25.00% | TRUE | TRUE |
| | 6 | 97590037 - 97731093 | F - 25.00% | TRUE | TRUE |
| | 6 | 97590037 - 97731093 | | TRUE | TRUE |
| | 6 | 97590037 - 97731093 | F - 25.00% | TRUE | TRUE |
| | 6 | 97590037 - 97731093 | | TRUE | TRUE |
| | 6 | 32152510 - 32157963 | F - 12.50% | TRUE | TRUE |
| | 6 | 32152510 - 32157963 | | TRUE | TRUE |
| | 7 | 38423297 - 38671167 | | TRUE | FALSE |
| | 7 | 38423297 - 38671167 | F - 15.79% | FALSE | TRUE |
| | 7 | 76940068 - 77046115 | | TRUE | TRUE |
| | 7 | 76940068 - 77046115 | F - 12.50% | TRUE | TRUE |
| | 7 | 76940068 - 77046115 | | FALSE | TRUE |
| | 7 | 99488030 - 99517223 | T - 70.00% | TRUE | TRUE |
| | 7 | 99488030 - 99517223 | | TRUE | TRUE |
| X | | 70503042 - 70521018 | F - 3.70% | TRUE | TRUE |
| X | | 70503042 - 70521018 | | FALSE | TRUE |
| X | | 114795177 - 114885181 | | TRUE | FALSE |
| X | | 114795177 - 114885181 | F - 4.35% | TRUE | TRUE |
| X | | 114795177 - 114885181 | | FALSE | TRUE |
| X | | 114795177 - 114885181 | F - 4.35% | FALSE | TRUE |
| | 11 | 46878268 - 46940173 | | TRUE | FALSE |
| | 11 | 46878268 - 46940173 | T - 80.00% | TRUE | TRUE |

| | | | | |
|--------------|-----------------------|-------------|-------|-------|
| 11 | 46878268 - 46940173 | | TRUE | TRUE |
| 11 | 46878268 - 46940173 | | FALSE | TRUE |
| 11 | 58601540 - 58671688 | F - 16.67% | TRUE | TRUE |
| 11 | 58601540 - 58671688 | | FALSE | TRUE |
| 12 | 56360553 - 56366568 | F - 11.11% | TRUE | TRUE |
| 12 | 56360553 - 56366568 | | TRUE | TRUE |
| 12 | 56360553 - 56366568 | F - 44.44% | TRUE | TRUE |
| 12 | 70132461 - 70216984 | F - 32.00% | TRUE | TRUE |
| 12 | 70132461 - 70216984 | | FALSE | TRUE |
| 13 | 20977806 - 21100012 | F - 25.00% | FALSE | TRUE |
| 13 | 20977806 - 21100012 | T - 75.00% | TRUE | TRUE |
| 13 | 20977806 - 21100012 | | TRUE | TRUE |
| 16 | 56666534 - 56667898 | T - 100.00% | TRUE | TRUE |
| 16 | 56666534 - 56667898 | | TRUE | TRUE |
| 16 | 56666534 - 56667898 | T - 100.00% | TRUE | TRUE |
| 16 | 56666534 - 56667898 | T - 50.00% | TRUE | TRUE |
| 17_ctg5_hap1 | 128328 - 183214 | F - 14.29% | TRUE | TRUE |
| 17_ctg5_hap1 | 128328 - 183214 | | TRUE | TRUE |
| 17_ctg5_hap1 | 128328 - 183214 | F - 42.86% | TRUE | TRUE |
| 17 | 38632080 - 38657854 | T - 100.00% | TRUE | TRUE |
| 17 | 38632080 - 38657854 | | FALSE | TRUE |
| 17 | 38632080 - 38657854 | T - 66.67% | TRUE | TRUE |
| 17 | 38632080 - 38657854 | | FALSE | TRUE |
| 19 | 38045684 - 38085673 | | TRUE | TRUE |
| 19 | 38045684 - 38085673 | F - 40.00% | FALSE | TRUE |
| 22 | 41865117 - 41924993 | | TRUE | TRUE |
| 22 | 41865117 - 41924993 | F - 9.09% | TRUE | FALSE |
| 22 | 41865117 - 41924993 | F - 9.09% | TRUE | TRUE |
| 22 | 41865117 - 41924993 | T - 54.55% | TRUE | TRUE |
| 22 | 30279144 - 30426857 | | TRUE | TRUE |
| 22 | 30279144 - 30426857 | | TRUE | TRUE |
| 22 | 30279144 - 30426857 | F - 5.00% | TRUE | TRUE |
| 22 | 30279144 - 30426857 | F - 15.00% | TRUE | TRUE |
| 6_apd_hap1 | 3467251 - 3472701 | F - 14.29% | TRUE | TRUE |
| 6_apd_hap1 | 3467251 - 3472701 | | TRUE | TRUE |
| 6_cox_hap2 | 3623191 - 3628641 | F - 14.29% | TRUE | TRUE |
| 6_cox_hap2 | 3623191 - 3628641 | | TRUE | TRUE |
| 6_cox_hap2 | 1088814 - 1119772 | F - 5.26% | TRUE | FALSE |
| 6_cox_hap2 | 1088814 - 1119772 | | TRUE | TRUE |
| 6_dbb_hap3 | 873362 - 904320 | F - 5.26% | TRUE | FALSE |
| 6_dbb_hap3 | 873362 - 904320 | | TRUE | TRUE |
| 6_mcf_hap5 | 873208 - 904163 | F - 5.26% | TRUE | FALSE |
| 6_mcf_hap5 | 873208 - 904163 | | TRUE | TRUE |
| 6_ssto_hap7 | 3500238 - 3505689 | F - 14.29% | TRUE | TRUE |
| 6_ssto_hap7 | 3500238 - 3505689 | | TRUE | TRUE |
| 6_ssto_hap7 | 3500238 - 3505689 | F - 28.57% | FALSE | TRUE |
| 1 | 111888910 - 111895639 | | TRUE | TRUE |
| 1 | 111888910 - 111895639 | F - 12.50% | FALSE | TRUE |
| 1 | 227751220 - 227910352 | | TRUE | TRUE |
| 1 | 227751220 - 227910352 | F - 27.27% | FALSE | TRUE |
| 1 | 144275888 - 144341756 | | TRUE | TRUE |
| 1 | 144275888 - 144341756 | | TRUE | TRUE |
| 1 | 144275888 - 144341756 | F - 16.00% | TRUE | TRUE |
| 1 | 144275888 - 144341756 | F - 12.00% | TRUE | TRUE |
| 1 | 144275888 - 144341756 | | FALSE | TRUE |
| 1 | 144275888 - 144341756 | F - 4.00% | TRUE | TRUE |
| 1 | 144456138 - 144521970 | | TRUE | TRUE |
| 1 | 144456138 - 144521970 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 144456138 - 144521970 | F - 17.39% | TRUE | TRUE |
| 1 | 144456138 - 144521970 | F - 13.04% | TRUE | TRUE |
| 1 | 144456138 - 144521970 | | FALSE | TRUE |
| 1 | 144456138 - 144521970 | | FALSE | TRUE |
| 2 | 37311594 - 37326387 | | TRUE | FALSE |
| 2 | 37311594 - 37326387 | | TRUE | TRUE |
| 2 | 37311594 - 37326387 | F - 40.00% | TRUE | TRUE |
| 2 | 64370373 - 64479993 | | TRUE | TRUE |
| 2 | 64370373 - 64479993 | F - 16.67% | FALSE | TRUE |
| 2 | 102681004 - 102796334 | | TRUE | FALSE |
| 2 | 102681004 - 102796334 | | TRUE | TRUE |
| 2 | 102681004 - 102796334 | | TRUE | TRUE |
| 2 | 102681004 - 102796334 | F - 10.00% | TRUE | TRUE |
| 2 | 102681004 - 102796334 | | FALSE | TRUE |
| 2 | 102681004 - 102796334 | F - 15.00% | TRUE | TRUE |
| 2 | 102681004 - 102796334 | F - 5.00% | TRUE | TRUE |
| 2 | 102681004 - 102796334 | F - 5.00% | TRUE | TRUE |
| 2 | 102681004 - 102796334 | F - 5.00% | FALSE | TRUE |
| 2 | 102681004 - 102796334 | | FALSE | TRUE |
| 2 | 187867947 - 188419390 | | TRUE | FALSE |
| 2 | 187867947 - 188419390 | T - 66.67% | TRUE | TRUE |
| 3 | 185764097 - 185828107 | F - 38.89% | TRUE | TRUE |
| 3 | 185764097 - 185828107 | | FALSE | TRUE |
| 4 | 178230990 - 178284097 | | TRUE | TRUE |
| 4 | 178230990 - 178284097 | T - 60.00% | TRUE | FALSE |
| 4 | 178230990 - 178284097 | | TRUE | TRUE |
| 4 | 178230990 - 178284097 | | FALSE | TRUE |
| 6 | 28317691 - 28336954 | | FALSE | TRUE |
| 6 | 28317691 - 28336954 | | FALSE | TRUE |
| 6 | 28317691 - 28336954 | T - 87.50% | TRUE | TRUE |
| 6 | 28317691 - 28336954 | F - 12.50% | FALSE | TRUE |
| 6 | 28317691 - 28336954 | | TRUE | TRUE |
| 6 | 28317691 - 28336954 | | FALSE | TRUE |
| 6 | 135818489 - 136037193 | | TRUE | FALSE |
| 6 | 135818489 - 136037193 | | TRUE | TRUE |
| 6 | 135818489 - 136037193 | T - 54.55% | TRUE | TRUE |
| 8 | 144806103 - 144815971 | T - 60.00% | TRUE | TRUE |
| 8 | 144806103 - 144815971 | | FALSE | TRUE |
| 10 | 48255225 - 48279199 | | TRUE | FALSE |
| 10 | 48255225 - 48279199 | | TRUE | TRUE |
| 10 | 48255225 - 48279199 | | TRUE | TRUE |
| 10 | 48255225 - 48279199 | | TRUE | TRUE |
| 10 | 48255225 - 48279199 | | TRUE | TRUE |
| 10 | 48255225 - 48279199 | F - 46.15% | TRUE | TRUE |
| 10 | 48255225 - 48279199 | F - 7.69% | TRUE | TRUE |
| 10 | 48255225 - 48279199 | | TRUE | TRUE |
| 10 | 80008382 - 80434724 | F - 12.50% | TRUE | TRUE |
| 10 | 80008382 - 80434724 | | TRUE | TRUE |
| 10 | 49199649 - 49207835 | F - 14.29% | TRUE | TRUE |
| 10 | 49199649 - 49207835 | | TRUE | TRUE |
| 11 | 71164155 - 71212862 | | TRUE | TRUE |
| 11 | 71164155 - 71212862 | T - 88.89% | TRUE | TRUE |
| 12 | 26348269 - 26405853 | T - 55.56% | TRUE | TRUE |
| 12 | 26348269 - 26405853 | | TRUE | TRUE |
| 12 | 26348269 - 26405853 | T - 88.89% | TRUE | TRUE |
| 12 | 26348269 - 26405853 | | TRUE | TRUE |
| 12 | 26348269 - 26405853 | T - 66.67% | TRUE | TRUE |
| 13 | 111290133 - 111365950 | | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|------------|-------|-------|
| | 13 | 111290133 - 111365950 | F - 42.86% | TRUE | TRUE |
| 6_qbl_hap6 | | 873336 - 904294 | F - 5.26% | TRUE | FALSE |
| 6_qbl_hap6 | | 873336 - 904294 | | TRUE | TRUE |
| | 1 | 20208888 - 20239438 | T - 50.00% | TRUE | TRUE |
| | 1 | 20208888 - 20239438 | | TRUE | TRUE |
| | 1 | 38022520 - 38032458 | F - 10.00% | TRUE | TRUE |
| | 1 | 38022520 - 38032458 | | TRUE | TRUE |
| | 1 | 38022520 - 38032458 | | FALSE | TRUE |
| | 1 | 227177566 - 227506175 | | TRUE | FALSE |
| | 1 | 227177566 - 227506175 | | TRUE | TRUE |
| | 1 | 227177566 - 227506175 | | TRUE | TRUE |
| | 1 | 227177566 - 227506175 | | TRUE | TRUE |
| | 1 | 227177566 - 227506175 | T - 72.00% | TRUE | TRUE |
| | 1 | 227177566 - 227506175 | | FALSE | TRUE |
| | 2 | 207040040 - 207082771 | T - 84.62% | TRUE | TRUE |
| | 2 | 207040040 - 207082771 | T - 69.23% | TRUE | TRUE |
| | 2 | 207040040 - 207082771 | T - 92.31% | TRUE | TRUE |
| | 2 | 207040040 - 207082771 | F - 7.69% | TRUE | FALSE |
| | 2 | 207040040 - 207082771 | | TRUE | FALSE |
| | 2 | 207040040 - 207082771 | T - 61.54% | TRUE | TRUE |
| | 2 | 207040040 - 207082771 | | FALSE | TRUE |
| | 5 | 180663909 - 180675096 | F - 1.82% | TRUE | TRUE |
| | 5 | 180663909 - 180675096 | | TRUE | TRUE |
| | 5 | 180663909 - 180675096 | | FALSE | TRUE |
| | 6 | 117803820 - 117891021 | | TRUE | TRUE |
| | 6 | 117803820 - 117891021 | | TRUE | TRUE |
| | 6 | 117803820 - 117891021 | | TRUE | TRUE |
| | 6 | 117803820 - 117891021 | | TRUE | TRUE |
| | 6 | 117803820 - 117891021 | T - 53.85% | TRUE | TRUE |
| | 6 | 117803820 - 117891021 | F - 15.38% | TRUE | TRUE |
| | 6 | 117803820 - 117891021 | | FALSE | TRUE |
| | 7 | 138144953 - 138274738 | | TRUE | TRUE |
| | 7 | 138144953 - 138274738 | F - 37.50% | TRUE | TRUE |
| | 7 | 138144953 - 138274738 | | TRUE | TRUE |
| | 8 | 107282374 - 107764922 | | TRUE | TRUE |
| | 8 | 107282374 - 107764922 | | TRUE | TRUE |
| | 8 | 107282374 - 107764922 | | FALSE | TRUE |
| | 8 | 107282374 - 107764922 | F - 3.45% | TRUE | TRUE |
| | 8 | 124510127 - 124553493 | F - 40.00% | TRUE | TRUE |
| | 8 | 124510127 - 124553493 | | TRUE | TRUE |
| | 8 | 124510127 - 124553493 | | TRUE | TRUE |
| | 8 | 124510127 - 124553493 | F - 10.00% | FALSE | TRUE |
| | 9 | 139745395 - 139755251 | T - 55.56% | TRUE | TRUE |
| | 9 | 139745395 - 139755251 | | TRUE | TRUE |
| | 9 | 139745395 - 139755251 | | FALSE | TRUE |
| X | | 117480036 - 117590949 | | TRUE | TRUE |
| X | | 117480036 - 117590949 | F - 45.45% | TRUE | TRUE |
| X | | 117480036 - 117590949 | | FALSE | TRUE |
| X | | 70459474 - 70475047 | F - 6.25% | TRUE | TRUE |
| X | | 70459474 - 70475047 | | FALSE | TRUE |
| X | | 73247971 - 73513409 | | TRUE | TRUE |
| X | | 73247971 - 73513409 | | TRUE | TRUE |
| X | | 73247971 - 73513409 | F - 16.67% | TRUE | TRUE |
| | 11 | 706113 - 727727 | F - 13.33% | TRUE | TRUE |
| | 11 | 706113 - 727727 | | TRUE | TRUE |
| | 11 | 18415935 - 18429972 | | TRUE | TRUE |
| | 11 | 18415935 - 18429972 | F - 31.82% | TRUE | FALSE |
| | 11 | 18415935 - 18429972 | F - 45.45% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 56623820 - 56631630 | F - 40.00% | TRUE | FALSE |
| 12 | 56623820 - 56631630 | F - 46.67% | TRUE | TRUE |
| 12 | 56623820 - 56631630 | | FALSE | TRUE |
| 14 | 71108504 - 71142077 | | TRUE | TRUE |
| 14 | 71108504 - 71142077 | T - 50.00% | TRUE | FALSE |
| 15 | 30938317 - 31065209 | T - 50.00% | TRUE | TRUE |
| 15 | 30938317 - 31065209 | | TRUE | TRUE |
| 15 | 30938317 - 31065209 | | FALSE | TRUE |
| 17 | 7210318 - 7215782 | | TRUE | TRUE |
| 17 | 7210318 - 7215782 | F - 9.09% | TRUE | TRUE |
| 1 | 3569084 - 3652765 | | TRUE | FALSE |
| 1 | 3569084 - 3652765 | F - 12.50% | FALSE | TRUE |
| 1 | 16268364 - 16302627 | F - 43.33% | TRUE | TRUE |
| 1 | 16268364 - 16302627 | | FALSE | TRUE |
| 2 | 174937175 - 175113426 | F - 5.88% | TRUE | TRUE |
| 2 | 174937175 - 175113426 | | TRUE | TRUE |
| 3 | 188665003 - 189043093 | | TRUE | TRUE |
| 3 | 188665003 - 189043093 | F - 26.32% | FALSE | TRUE |
| 3 | 53850324 - 53880420 | T - 100.00% | TRUE | TRUE |
| 3 | 53850324 - 53880420 | F - 20.00% | TRUE | TRUE |
| 3 | 53850324 - 53880420 | | FALSE | TRUE |
| 3 | 53850324 - 53880420 | | FALSE | TRUE |
| 3 | 53850324 - 53880420 | | FALSE | TRUE |
| 4 | 113066553 - 113110237 | | TRUE | TRUE |
| 4 | 113066553 - 113110237 | T - 50.00% | FALSE | TRUE |
| 4 | 159593277 - 159630775 | | TRUE | TRUE |
| 4 | 159593277 - 159630775 | | TRUE | TRUE |
| 4 | 159593277 - 159630775 | | TRUE | TRUE |
| 4 | 159593277 - 159630775 | | TRUE | TRUE |
| 4 | 159593277 - 159630775 | F - 13.33% | TRUE | TRUE |
| 5 | 65892176 - 66465423 | | TRUE | TRUE |
| 5 | 65892176 - 66465423 | F - 28.57% | TRUE | TRUE |
| 5 | 65892176 - 66465423 | | TRUE | TRUE |
| 5 | 65892176 - 66465423 | F - 34.29% | FALSE | TRUE |
| 5 | 65892176 - 66465423 | | FALSE | TRUE |
| 5 | 140019012 - 140024993 | T - 65.22% | TRUE | FALSE |
| 5 | 140019012 - 140024993 | | TRUE | TRUE |
| 5 | 140019012 - 140024993 | | TRUE | TRUE |
| 5 | 140019012 - 140024993 | | TRUE | TRUE |
| 5 | 163723702 - 164598649 | F - 17.65% | TRUE | TRUE |
| 5 | 163723702 - 164598649 | F - 5.88% | TRUE | TRUE |
| 5 | 163723702 - 164598649 | | FALSE | TRUE |
| 5 | 163723702 - 164598649 | | FALSE | TRUE |
| 6 | 73331520 - 73908574 | T - 55.00% | TRUE | TRUE |
| 6 | 73331520 - 73908574 | | TRUE | FALSE |
| 6 | 73331520 - 73908574 | | TRUE | TRUE |
| 6 | 73331520 - 73908574 | | TRUE | TRUE |
| 6 | 73331520 - 73908574 | T - 85.00% | TRUE | TRUE |
| 6 | 73331520 - 73908574 | | TRUE | TRUE |
| 6 | 139094657 - 139114456 | T - 50.00% | TRUE | TRUE |
| 6 | 139094657 - 139114456 | | TRUE | TRUE |
| 12 | 54943134 - 54973023 | | TRUE | FALSE |
| 12 | 54943134 - 54973023 | T - 90.00% | TRUE | FALSE |
| 14 | 35221937 - 35344853 | | TRUE | TRUE |
| 14 | 35221937 - 35344853 | T - 75.00% | TRUE | TRUE |
| 14 | 35221937 - 35344853 | | TRUE | TRUE |
| 14 | 35221937 - 35344853 | | TRUE | TRUE |
| 14 | 35390064 - 35451721 | T - 66.67% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 14 | 35390064 - 35451721 | | TRUE | TRUE |
| 15 | 51500254 - 51630807 | | TRUE | FALSE |
| 15 | 51500254 - 51630807 | F - 13.04% | TRUE | TRUE |
| 15 | 51500254 - 51630807 | F - 26.09% | FALSE | TRUE |
| 15 | 51500254 - 51630807 | F - 8.70% | FALSE | TRUE |
| 16 | 85645023 - 85709812 | F - 17.65% | TRUE | TRUE |
| 16 | 85645023 - 85709812 | | TRUE | TRUE |
| 16 | 85645023 - 85709812 | F - 11.76% | TRUE | TRUE |
| 16 | 85645023 - 85709812 | | TRUE | TRUE |
| 16 | 85645023 - 85709812 | | FALSE | TRUE |
| 16 | 85645023 - 85709812 | | TRUE | TRUE |
| 19 | 7985194 - 7998843 | | TRUE | TRUE |
| 19 | 7985194 - 7998843 | T - 100.00% | TRUE | TRUE |
| 20 | 30639991 - 30689659 | T - 94.12% | TRUE | TRUE |
| 20 | 30639991 - 30689659 | | FALSE | TRUE |
| 6_qbl_hap6 | 3413530 - 3418981 | F - 14.29% | TRUE | TRUE |
| 6_qbl_hap6 | 3413530 - 3418981 | | TRUE | TRUE |
| 21 | 45553487 - 45565605 | | TRUE | TRUE |
| 21 | 45553487 - 45565605 | T - 53.33% | TRUE | TRUE |
| 21 | 45553487 - 45565605 | | FALSE | TRUE |
| 1 | 89873238 - 89890493 | | TRUE | TRUE |
| 1 | 89873238 - 89890493 | T - 100.00% | TRUE | TRUE |
| 1 | 89873238 - 89890493 | | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 7.41% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 25.93% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 29.63% | TRUE | FALSE |
| 1 | 71318036 - 71513497 | F - 11.11% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | T - 92.59% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 18.52% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | T - 88.89% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 11.11% | FALSE | TRUE |
| 1 | 71318036 - 71513497 | F - 11.11% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 44.44% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | F - 14.81% | TRUE | TRUE |
| 1 | 71318036 - 71513497 | | TRUE | TRUE |
| 1 | 71318036 - 71513497 | | FALSE | TRUE |
| 1 | 71318036 - 71513497 | | FALSE | TRUE |
| 1 | 71318036 - 71513497 | | TRUE | TRUE |
| 1 | 110210644 - 110252171 | | TRUE | TRUE |
| 1 | 110210644 - 110252171 | F - 13.04% | TRUE | TRUE |
| 1 | 110210644 - 110252171 | F - 8.70% | TRUE | TRUE |
| 3 | 16357352 - 16555533 | F - 7.69% | TRUE | TRUE |
| 3 | 16357352 - 16555533 | F - 7.69% | FALSE | TRUE |
| 3 | 16357352 - 16555533 | F - 7.69% | TRUE | TRUE |
| 3 | 16357352 - 16555533 | | TRUE | TRUE |
| 4 | 47487305 - 47595503 | | TRUE | FALSE |
| 4 | 47487305 - 47595503 | F - 18.18% | TRUE | TRUE |
| 4 | 47487305 - 47595503 | F - 9.09% | TRUE | TRUE |
| 4 | 47487305 - 47595503 | F - 18.18% | TRUE | TRUE |
| 7 | 17338246 - 17385776 | F - 12.50% | TRUE | TRUE |
| 7 | 17338246 - 17385776 | | TRUE | TRUE |
| 8 | 67955314 - 67996018 | | TRUE | TRUE |
| 8 | 67955314 - 67996018 | F - 4.76% | FALSE | TRUE |
| X | 40440146 - 40465889 | | TRUE | TRUE |
| X | 40440146 - 40465889 | T - 55.56% | TRUE | TRUE |
| X | 153665259 - 153671814 | | TRUE | TRUE |

| | | | | |
|-------------|-------------------------|-------------|-------|-------|
| X | 153665259 - 153671814 | F - 10.00% | TRUE | TRUE |
| X | 153665259 - 153671814 | F - 15.00% | TRUE | TRUE |
| | 12 99038919 - 99129211 | | TRUE | TRUE |
| | 12 99038919 - 99129211 | | FALSE | TRUE |
| | 12 99038919 - 99129211 | T - 70.00% | TRUE | TRUE |
| | 16 67311413 - 67323403 | | TRUE | TRUE |
| | 16 67311413 - 67323403 | T - 86.67% | FALSE | TRUE |
| | 16 67311413 - 67323403 | T - 86.67% | FALSE | TRUE |
| | 16 67311413 - 67323403 | | FALSE | TRUE |
| | 17 46688446 - 46692653 | F - 16.67% | TRUE | TRUE |
| | 17 46688446 - 46692653 | | TRUE | TRUE |
| | 17 46688446 - 46692653 | F - 33.33% | TRUE | TRUE |
| | 17 46688446 - 46692653 | F - 16.67% | TRUE | TRUE |
| | 17 76791735 - 76836969 | T - 63.64% | TRUE | TRUE |
| | 17 76791735 - 76836969 | | TRUE | TRUE |
| | 17 46626232 - 46667634 | | TRUE | TRUE |
| | 17 46626232 - 46667634 | | TRUE | TRUE |
| | 17 46626232 - 46667634 | F - 3.57% | TRUE | TRUE |
| | 17 46626232 - 46667634 | F - 3.57% | TRUE | TRUE |
| | 19 51288985 - 51289467 | | TRUE | FALSE |
| | 19 51288985 - 51289467 | T - 100.00% | TRUE | TRUE |
| | 20 2774715 - 2781292 | | TRUE | TRUE |
| | 20 2774715 - 2781292 | T - 100.00% | FALSE | TRUE |
| | 21 47878812 - 47989926 | F - 7.14% | TRUE | FALSE |
| | 21 47878812 - 47989926 | F - 25.00% | TRUE | FALSE |
| | 21 47878812 - 47989926 | | TRUE | TRUE |
| | 21 47878812 - 47989926 | | TRUE | TRUE |
| 6_mann_hap4 | 873029 - 903954 | F - 5.26% | TRUE | FALSE |
| 6_mann_hap4 | 873029 - 903954 | | TRUE | TRUE |
| | 16 27471934 - 27561251 | | TRUE | TRUE |
| | 16 27471934 - 27561251 | T - 80.00% | TRUE | TRUE |
| | 16 27471934 - 27561251 | | TRUE | TRUE |
| | 1 144146808 - 144224481 | F - 4.76% | TRUE | TRUE |
| | 1 144146808 - 144224481 | F - 4.76% | TRUE | TRUE |
| | 1 144146808 - 144224481 | F - 4.76% | TRUE | TRUE |
| | 1 144146808 - 144224481 | | TRUE | TRUE |
| | 2 26466038 - 26513336 | | TRUE | FALSE |
| | 2 26466038 - 26513336 | F - 5.56% | TRUE | TRUE |
| | 2 172290727 - 172341562 | | TRUE | TRUE |
| | 2 172290727 - 172341562 | F - 5.88% | TRUE | TRUE |
| | 2 219314974 - 219433084 | T - 68.42% | TRUE | TRUE |
| | 2 219314974 - 219433084 | T - 63.16% | TRUE | TRUE |
| | 2 219314974 - 219433084 | T - 57.89% | TRUE | TRUE |
| | 2 219314974 - 219433084 | | TRUE | TRUE |
| | 3 136581050 - 136668665 | | TRUE | TRUE |
| | 3 136581050 - 136668665 | F - 28.57% | TRUE | TRUE |
| | 4 103552643 - 103682151 | T - 60.00% | TRUE | TRUE |
| | 4 103552643 - 103682151 | F - 10.00% | TRUE | TRUE |
| | 4 103552643 - 103682151 | | TRUE | TRUE |
| | 5 98104354 - 98134347 | | TRUE | TRUE |
| | 5 98104354 - 98134347 | | TRUE | TRUE |
| | 5 98104354 - 98134347 | | FALSE | TRUE |
| | 5 98104354 - 98134347 | T - 66.67% | TRUE | TRUE |
| | 5 98104354 - 98134347 | T - 66.67% | TRUE | TRUE |
| | 5 98104354 - 98134347 | F - 22.22% | TRUE | TRUE |
| | 5 98104354 - 98134347 | F - 11.11% | TRUE | TRUE |
| | 5 98104354 - 98134347 | | FALSE | TRUE |
| | 5 98104354 - 98134347 | F - 11.11% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 5 | 126626456 - 126801429 | | TRUE | FALSE |
| | 5 | 126626456 - 126801429 | | TRUE | TRUE |
| | 5 | 126626456 - 126801429 | | TRUE | FALSE |
| | 5 | 126626456 - 126801429 | T - 68.75% | TRUE | TRUE |
| | 5 | 126626456 - 126801429 | F - 43.75% | TRUE | TRUE |
| | 5 | 126626456 - 126801429 | | FALSE | TRUE |
| | 5 | 49692026 - 49739082 | | TRUE | FALSE |
| | 5 | 49692026 - 49739082 | F - 9.09% | TRUE | TRUE |
| | 5 | 49692026 - 49739082 | | FALSE | TRUE |
| | 6 | 135604670 - 135830219 | T - 50.00% | TRUE | TRUE |
| | 6 | 135604670 - 135830219 | F - 7.69% | TRUE | TRUE |
| | 6 | 135604670 - 135830219 | | TRUE | TRUE |
| | 7 | 96634860 - 96640352 | T - 54.55% | TRUE | TRUE |
| | 7 | 96634860 - 96640352 | F - 27.27% | TRUE | TRUE |
| | 7 | 96634860 - 96640352 | T - 54.55% | TRUE | TRUE |
| | 7 | 96634860 - 96640352 | F - 27.27% | TRUE | TRUE |
| | 7 | 96634860 - 96640352 | | TRUE | TRUE |
| | 7 | 96634860 - 96640352 | | TRUE | TRUE |
| | 8 | 17354597 - 17428082 | | TRUE | TRUE |
| | 8 | 17354597 - 17428082 | | TRUE | FALSE |
| | 8 | 17354597 - 17428082 | | TRUE | TRUE |
| | 8 | 17354597 - 17428082 | | TRUE | TRUE |
| | 8 | 17354597 - 17428082 | F - 41.67% | TRUE | TRUE |
| | 8 | 17354597 - 17428082 | F - 25.00% | TRUE | TRUE |
| | 8 | 17354597 - 17428082 | F - 41.67% | FALSE | TRUE |
| | 9 | 113127529 - 113342160 | | TRUE | FALSE |
| | 9 | 113127529 - 113342160 | | TRUE | FALSE |
| | 9 | 113127529 - 113342160 | F - 8.33% | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | F - 8.33% | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | F - 33.33% | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | F - 25.00% | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | F - 8.33% | TRUE | TRUE |
| | 9 | 113127529 - 113342160 | | FALSE | TRUE |
| | 9 | 130267618 - 130341268 | F - 10.00% | FALSE | TRUE |
| | 9 | 130267618 - 130341268 | | TRUE | TRUE |
| | 9 | 130267618 - 130341268 | F - 10.00% | TRUE | TRUE |
| | 9 | 130267618 - 130341268 | F - 40.00% | TRUE | TRUE |
| | 9 | 130267618 - 130341268 | | TRUE | TRUE |
| X | | 118722300 - 118739858 | | FALSE | TRUE |
| X | | 118722300 - 118739858 | F - 11.11% | FALSE | TRUE |
| | 10 | 104154229 - 104162281 | | TRUE | TRUE |
| | 10 | 104154229 - 104162281 | T - 92.31% | TRUE | TRUE |
| | 10 | 104154229 - 104162281 | | FALSE | TRUE |
| | 10 | 104154229 - 104162281 | | TRUE | TRUE |
| | 10 | 104154229 - 104162281 | | TRUE | TRUE |
| | 10 | 104154229 - 104162281 | T - 84.62% | TRUE | TRUE |
| | 10 | 104154229 - 104162281 | | FALSE | TRUE |
| | 10 | 104154229 - 104162281 | | TRUE | TRUE |
| | 10 | 5903689 - 5931869 | | TRUE | FALSE |
| | 10 | 5903689 - 5931869 | | FALSE | TRUE |
| | 10 | 5903689 - 5931869 | F - 9.09% | TRUE | TRUE |
| | 10 | 5903689 - 5931869 | F - 9.09% | FALSE | TRUE |
| | 12 | 122989190 - 123011560 | F - 8.33% | TRUE | TRUE |
| | 12 | 122989190 - 123011560 | | TRUE | TRUE |
| | 14 | 102783714 - 102809044 | T - 92.31% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 14 | 102783714 - 102809044 | T - 61.54% | TRUE | TRUE |
| 14 | 102783714 - 102809044 | T - 92.31% | TRUE | TRUE |
| 14 | 102783714 - 102809044 | | TRUE | TRUE |
| 17 | 46902123 - 46943884 | | TRUE | FALSE |
| 17 | 46902123 - 46943884 | F - 3.03% | TRUE | TRUE |
| 17 | 46902123 - 46943884 | F - 6.06% | TRUE | TRUE |
| 17 | 46902123 - 46943884 | | FALSE | TRUE |
| 17 | 46902123 - 46943884 | | FALSE | TRUE |
| 17 | 46902123 - 46943884 | F - 3.03% | TRUE | TRUE |
| 17 | 46902123 - 46943884 | F - 3.03% | FALSE | TRUE |
| 17 | 46902123 - 46943884 | F - 21.21% | TRUE | TRUE |
| 17 | 46902123 - 46943884 | | FALSE | TRUE |
| 17 | 46902123 - 46943884 | F - 3.03% | FALSE | TRUE |
| 17 | 46902123 - 46943884 | | TRUE | TRUE |
| 20 | 35201876 - 35222560 | | TRUE | TRUE |
| 20 | 35201876 - 35222560 | F - 11.11% | TRUE | FALSE |
| 20 | 35201876 - 35222560 | | TRUE | TRUE |
| 22 | 22988780 - 22990368 | T - 80.00% | TRUE | TRUE |
| 22 | 22988780 - 22990368 | | FALSE | TRUE |
| 1 | 222731244 - 222763275 | | TRUE | TRUE |
| 1 | 222731244 - 222763275 | T - 66.67% | FALSE | TRUE |
| 1 | 222731244 - 222763275 | | TRUE | TRUE |
| 2 | 113341817 - 113372008 | | TRUE | TRUE |
| 2 | 113341817 - 113372008 | F - 25.00% | TRUE | TRUE |
| 2 | 219138915 - 219157309 | F - 6.45% | TRUE | TRUE |
| 2 | 219138915 - 219157309 | F - 3.23% | TRUE | TRUE |
| 2 | 219138915 - 219157309 | | TRUE | TRUE |
| 2 | 219138915 - 219157309 | F - 3.23% | FALSE | TRUE |
| 5 | 72112139 - 72212560 | | TRUE | TRUE |
| 5 | 72112139 - 72212560 | F - 4.55% | TRUE | TRUE |
| 6 | 3231637 - 3303607 | | TRUE | FALSE |
| 6 | 3231637 - 3303607 | | TRUE | TRUE |
| 6 | 3231637 - 3303607 | | TRUE | TRUE |
| 6 | 3231637 - 3303607 | F - 35.71% | FALSE | TRUE |
| 6 | 33738979 - 33756913 | F - 5.88% | TRUE | TRUE |
| 6 | 33738979 - 33756913 | | FALSE | TRUE |
| 7 | 73588575 - 73611431 | F - 45.45% | TRUE | TRUE |
| 7 | 73588575 - 73611431 | | TRUE | TRUE |
| 7 | 73588575 - 73611431 | | TRUE | TRUE |
| 7 | 73588575 - 73611431 | F - 18.18% | TRUE | TRUE |
| 8 | 56979854 - 56987140 | | TRUE | TRUE |
| 8 | 56979854 - 56987140 | F - 16.67% | TRUE | TRUE |
| 9 | 102668915 - 102736818 | | TRUE | TRUE |
| 9 | 102668915 - 102736818 | T - 83.33% | TRUE | TRUE |
| 9 | 102668915 - 102736818 | | TRUE | TRUE |
| 9 | 102668915 - 102736818 | | TRUE | TRUE |
| 10 | 62629196 - 62761198 | | TRUE | FALSE |
| 10 | 62629196 - 62761198 | F - 31.25% | FALSE | TRUE |
| 10 | 62629196 - 62761198 | F - 25.00% | TRUE | TRUE |
| 10 | 62629196 - 62761198 | F - 18.75% | TRUE | TRUE |
| 10 | 62629196 - 62761198 | F - 12.50% | TRUE | TRUE |
| 10 | 62629196 - 62761198 | F - 6.25% | TRUE | TRUE |
| 10 | 62629196 - 62761198 | F - 25.00% | FALSE | TRUE |
| 10 | 62629196 - 62761198 | F - 12.50% | FALSE | TRUE |
| 10 | 62629196 - 62761198 | F - 6.25% | TRUE | TRUE |
| 10 | 62629196 - 62761198 | F - 6.25% | TRUE | TRUE |
| 10 | 62629196 - 62761198 | | FALSE | TRUE |
| 11 | 9800214 - 10315754 | F - 14.29% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|------|
| 11 | 9800214 - 10315754 | | TRUE | TRUE |
| 11 | 9800214 - 10315754 | | TRUE | TRUE |
| 11 | 113668596 - 113746292 | | TRUE | TRUE |
| 11 | 113668596 - 113746292 | F - 15.38% | TRUE | TRUE |
| 11 | 113668596 - 113746292 | | TRUE | TRUE |
| 11 | 113668596 - 113746292 | | FALSE | TRUE |
| 12 | 120105558 - 120119435 | | TRUE | TRUE |
| 12 | 120105558 - 120119435 | F - 11.11% | TRUE | TRUE |
| 12 | 56546040 - 56551771 | F - 10.00% | TRUE | TRUE |
| 12 | 56546040 - 56551771 | | FALSE | TRUE |
| 15 | 32698801 - 32727250 | | TRUE | TRUE |
| 15 | 32698801 - 32727250 | T - 80.00% | TRUE | TRUE |
| 15 | 32698801 - 32727250 | | TRUE | TRUE |
| 15 | 32698801 - 32727250 | F - 20.00% | TRUE | TRUE |
| 17 | 26941458 - 26972472 | T - 75.00% | TRUE | TRUE |
| 17 | 26941458 - 26972472 | | FALSE | TRUE |
| 17 | 27041299 - 27045447 | F - 6.45% | TRUE | TRUE |
| 17 | 27041299 - 27045447 | F - 6.45% | TRUE | TRUE |
| 17 | 27041299 - 27045447 | | TRUE | TRUE |
| 17 | 27041299 - 27045447 | F - 9.68% | TRUE | TRUE |
| 19 | 44598482 - 44612919 | F - 25.00% | TRUE | TRUE |
| 19 | 44598482 - 44612919 | T - 100.00% | TRUE | TRUE |
| 19 | 44598482 - 44612919 | | FALSE | TRUE |
| 21 | 47744036 - 47865682 | | TRUE | TRUE |
| 21 | 47744036 - 47865682 | | TRUE | TRUE |
| 21 | 47744036 - 47865682 | T - 50.00% | FALSE | TRUE |
| 22 | 17618401 - 17646177 | | TRUE | TRUE |
| 22 | 17618401 - 17646177 | T - 80.00% | TRUE | TRUE |
| 22 | 17618401 - 17646177 | F - 20.00% | TRUE | TRUE |
| 6_apd_hap1 | 1979228 - 1997309 | F - 21.43% | TRUE | TRUE |
| 6_apd_hap1 | 1979228 - 1997309 | F - 42.86% | TRUE | TRUE |
| 6_apd_hap1 | 1979228 - 1997309 | | FALSE | TRUE |
| 6_cox_hap2 | 2179653 - 2197735 | F - 21.43% | TRUE | TRUE |
| 6_cox_hap2 | 2179653 - 2197735 | F - 42.86% | TRUE | TRUE |
| 6_cox_hap2 | 2179653 - 2197735 | | FALSE | TRUE |
| 6_dbb_hap3 | 1961244 - 1979325 | F - 21.43% | TRUE | TRUE |
| 6_dbb_hap3 | 1961244 - 1979325 | F - 42.86% | TRUE | TRUE |
| 6_dbb_hap3 | 1961244 - 1979325 | | FALSE | TRUE |
| 6_mann_hap4 | 2015679 - 2033760 | F - 21.43% | TRUE | TRUE |
| 6_mann_hap4 | 2015679 - 2033760 | F - 42.86% | TRUE | TRUE |
| 6_mann_hap4 | 2015679 - 2033760 | | FALSE | TRUE |
| 6_mcf_hap5 | 2049468 - 2067549 | F - 21.43% | TRUE | TRUE |
| 6_mcf_hap5 | 2049468 - 2067549 | F - 42.86% | TRUE | TRUE |
| 6_mcf_hap5 | 2049468 - 2067549 | | FALSE | TRUE |
| 6_ssto_hap7 | 1999891 - 2017973 | F - 21.43% | TRUE | TRUE |
| 6_ssto_hap7 | 1999891 - 2017973 | F - 42.86% | TRUE | TRUE |
| 6_ssto_hap7 | 1999891 - 2017973 | | FALSE | TRUE |
| 20 | 62921738 - 62944485 | | TRUE | TRUE |
| 20 | 62921738 - 62944485 | T - 50.00% | TRUE | TRUE |
| 1 | 1550795 - 1565990 | F - 6.38% | TRUE | TRUE |
| 1 | 1550795 - 1565990 | | TRUE | TRUE |
| 1 | 1550795 - 1565990 | | TRUE | TRUE |
| 1 | 1550795 - 1565990 | F - 6.38% | TRUE | TRUE |
| 1 | 1550795 - 1565990 | F - 8.51% | FALSE | TRUE |
| 1 | 62901968 - 62917475 | F - 25.00% | FALSE | TRUE |
| 1 | 62901968 - 62917475 | F - 12.50% | TRUE | TRUE |
| 1 | 62901968 - 62917475 | | TRUE | TRUE |
| 1 | 89517987 - 89531043 | | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 89517987 - 89531043 | F - 18.18% | TRUE | TRUE |
| 1 | 89517987 - 89531043 | F - 9.09% | TRUE | TRUE |
| 1 | 89517987 - 89531043 | | TRUE | TRUE |
| 1 | 91295104 - 91317207 | F - 25.00% | TRUE | TRUE |
| 1 | 91295104 - 91317207 | | TRUE | TRUE |
| 2 | 132479948 - 132524977 | | TRUE | TRUE |
| 2 | 132479948 - 132524977 | F - 37.50% | TRUE | TRUE |
| 2 | 132479948 - 132524977 | T - 62.50% | TRUE | TRUE |
| 2 | 132479948 - 132524977 | | TRUE | TRUE |
| 2 | 132479948 - 132524977 | | FALSE | TRUE |
| 2 | 201754050 - 201768655 | T - 73.33% | TRUE | FALSE |
| 2 | 201754050 - 201768655 | | TRUE | FALSE |
| 2 | 128014866 - 128051752 | | TRUE | TRUE |
| 2 | 128014866 - 128051752 | F - 23.53% | TRUE | TRUE |
| 2 | 128014866 - 128051752 | F - 11.76% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | | TRUE | TRUE |
| 2 | 128395956 - 128439360 | | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 31.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 3.13% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 9.38% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 21.88% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 3.13% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 3.13% | FALSE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | FALSE | TRUE |
| 2 | 128395956 - 128439360 | F - 9.38% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 15.63% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 25.00% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 9.38% | FALSE | TRUE |
| 2 | 128395956 - 128439360 | F - 6.25% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 12.50% | FALSE | TRUE |
| 2 | 128395956 - 128439360 | F - 9.38% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 3.13% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 9.38% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 3.13% | TRUE | TRUE |
| 2 | 128395956 - 128439360 | F - 3.13% | FALSE | TRUE |
| 3 | 132136370 - 132257876 | F - 8.33% | TRUE | TRUE |
| 3 | 132136370 - 132257876 | | TRUE | TRUE |
| 3 | 132136370 - 132257876 | | TRUE | TRUE |
| 3 | 132136370 - 132257876 | | TRUE | TRUE |
| 4 | 57259528 - 57301802 | T - 57.14% | TRUE | TRUE |
| 4 | 57259528 - 57301802 | | TRUE | TRUE |
| 4 | 57259528 - 57301802 | T - 57.14% | TRUE | TRUE |
| 4 | 57259528 - 57301802 | | FALSE | TRUE |
| 6 | 33378176 - 33384230 | F - 5.56% | TRUE | TRUE |
| 6 | 33378176 - 33384230 | | TRUE | TRUE |
| 6 | 31919864 - 31926887 | | TRUE | TRUE |
| 6 | 31919864 - 31926887 | F - 10.00% | TRUE | TRUE |
| 6 | 35800743 - 35889119 | F - 5.56% | TRUE | TRUE |
| 6 | 35800743 - 35889119 | | TRUE | TRUE |
| 6 | 35800743 - 35889119 | F - 5.56% | TRUE | TRUE |
| 7 | 101256605 - 101272576 | | TRUE | TRUE |

| | | | | | |
|----------------|----|-----------------------|-------------|-------|-------|
| | 7 | 101256605 - 101272576 | T - 100.00% | TRUE | TRUE |
| | 7 | 101256605 - 101272576 | T - 100.00% | FALSE | TRUE |
| | 7 | 101256605 - 101272576 | | TRUE | TRUE |
| | 9 | 42668608 - 42714962 | | TRUE | FALSE |
| | 9 | 42668608 - 42714962 | | TRUE | FALSE |
| | 9 | 42668608 - 42714962 | T - 62.50% | TRUE | TRUE |
| | 9 | 42668608 - 42714962 | | TRUE | TRUE |
| | 9 | 42668608 - 42714962 | F - 6.25% | TRUE | TRUE |
| | 9 | 42668608 - 42714962 | F - 37.50% | TRUE | TRUE |
| | 9 | 131018108 - 131038274 | F - 5.00% | TRUE | TRUE |
| | 9 | 131018108 - 131038274 | | TRUE | TRUE |
| X | | 53220503 - 53254604 | | TRUE | TRUE |
| X | | 53220503 - 53254604 | | TRUE | TRUE |
| X | | 53220503 - 53254604 | F - 11.11% | TRUE | TRUE |
| | 10 | 101909847 - 101948091 | F - 25.00% | TRUE | FALSE |
| | 10 | 101909847 - 101948091 | | TRUE | TRUE |
| | 12 | 109252708 - 109294819 | T - 80.00% | TRUE | FALSE |
| | 12 | 109252708 - 109294819 | | TRUE | FALSE |
| | 12 | 389223 - 498620 | F - 40.00% | TRUE | TRUE |
| | 12 | 389223 - 498620 | | TRUE | TRUE |
| | 12 | 389223 - 498620 | | TRUE | TRUE |
| | 12 | 389223 - 498620 | | TRUE | TRUE |
| | 14 | 78183942 - 78227533 | | TRUE | TRUE |
| | 14 | 78183942 - 78227533 | F - 12.50% | TRUE | TRUE |
| | 14 | 78183942 - 78227533 | | TRUE | TRUE |
| | 16 | 66968347 - 66978999 | F - 16.67% | TRUE | TRUE |
| | 16 | 66968347 - 66978999 | | FALSE | TRUE |
| | 17 | 76849059 - 76921472 | | TRUE | TRUE |
| | 17 | 76849059 - 76921472 | F - 38.46% | TRUE | TRUE |
| | 18 | 20777719 - 21017925 | | TRUE | TRUE |
| | 18 | 20777719 - 21017925 | T - 72.22% | TRUE | TRUE |
| | 18 | 20777719 - 21017925 | | FALSE | TRUE |
| | 18 | 20777719 - 21017925 | | FALSE | TRUE |
| | 20 | 44746906 - 44758502 | | TRUE | TRUE |
| | 20 | 44746906 - 44758502 | T - 92.86% | TRUE | TRUE |
| | 20 | 44746906 - 44758502 | F - 14.29% | TRUE | TRUE |
| | 20 | 44746906 - 44758502 | | TRUE | TRUE |
| | 20 | 44746906 - 44758502 | | TRUE | TRUE |
| | 20 | 44746906 - 44758502 | F - 14.29% | FALSE | TRUE |
| | 20 | 53092136 - 53267710 | | TRUE | TRUE |
| | 20 | 53092136 - 53267710 | | TRUE | TRUE |
| | 20 | 53092136 - 53267710 | T - 80.00% | TRUE | TRUE |
| 4_gl000194_ran | | 53589 - 115055 | | TRUE | TRUE |
| 4_gl000194_ran | | 53589 - 115055 | F - 16.67% | TRUE | TRUE |
| 6_ssto_hap7 | | 4858395 - 4864476 | F - 5.56% | TRUE | TRUE |
| 6_ssto_hap7 | | 4858395 - 4864476 | | TRUE | TRUE |
| | 1 | 149575482 - 149672983 | | TRUE | TRUE |
| | 1 | 149575482 - 149672983 | | TRUE | TRUE |
| | 1 | 149575482 - 149672983 | F - 7.69% | TRUE | TRUE |
| | 1 | 6161847 - 6240194 | | TRUE | TRUE |
| | 1 | 6161847 - 6240194 | T - 80.00% | FALSE | TRUE |
| | 1 | 6161847 - 6240194 | | FALSE | TRUE |
| | 1 | 6161847 - 6240194 | | FALSE | TRUE |
| | 1 | 43629845 - 43736607 | F - 14.29% | TRUE | TRUE |
| | 1 | 43629845 - 43736607 | | TRUE | TRUE |
| | 1 | 43629845 - 43736607 | | FALSE | TRUE |
| | 1 | 243651535 - 244013430 | F - 9.09% | TRUE | TRUE |
| | 1 | 243651535 - 244013430 | F - 9.09% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 1 | 243651535 - 244013430 | | FALSE | TRUE |
| 2 | 114384806 - 114400975 | | TRUE | TRUE |
| 2 | 114384806 - 114400975 | F - 3.03% | FALSE | TRUE |
| 2 | 114384806 - 114400975 | | TRUE | TRUE |
| 2 | 114384806 - 114400975 | | FALSE | TRUE |
| 2 | 149894621 - 150071776 | T - 60.00% | TRUE | TRUE |
| 2 | 149894621 - 150071776 | F - 6.67% | FALSE | TRUE |
| 2 | 149894621 - 150071776 | | FALSE | TRUE |
| 2 | 149894621 - 150071776 | | FALSE | TRUE |
| 3 | 20081515 - 20195896 | T - 50.00% | TRUE | TRUE |
| 3 | 20081515 - 20195896 | | FALSE | TRUE |
| 3 | 100468000 - 100712359 | F - 3.45% | TRUE | TRUE |
| 3 | 100468000 - 100712359 | F - 6.90% | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | F - 13.79% | TRUE | TRUE |
| 3 | 100468000 - 100712359 | F - 20.69% | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | F - 24.14% | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 3 | 100468000 - 100712359 | | TRUE | TRUE |
| 8 | 12803151 - 12889012 | | TRUE | FALSE |
| 8 | 12803151 - 12889012 | T - 55.56% | TRUE | FALSE |
| 8 | 12803151 - 12889012 | F - 22.22% | TRUE | FALSE |
| 8 | 12803151 - 12889012 | | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 22.22% | TRUE | FALSE |
| 8 | 12803151 - 12889012 | T - 66.67% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | T - 55.56% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | | TRUE | TRUE |
| 8 | 12803151 - 12889012 | | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 33.33% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 22.22% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 11.11% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | | TRUE | TRUE |
| 8 | 12803151 - 12889012 | | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 44.44% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 44.44% | TRUE | TRUE |
| 8 | 12803151 - 12889012 | F - 22.22% | FALSE | TRUE |
| 9 | 116638562 - 116818875 | | TRUE | TRUE |
| 9 | 116638562 - 116818875 | F - 7.14% | TRUE | TRUE |
| 9 | 131769315 - 131790582 | F - 6.25% | TRUE | TRUE |
| 9 | 131769315 - 131790582 | | TRUE | TRUE |
| 11 | 47269851 - 47290584 | | TRUE | TRUE |
| 11 | 47269851 - 47290584 | | TRUE | TRUE |
| 11 | 47269851 - 47290584 | | TRUE | TRUE |
| 11 | 47269851 - 47290584 | T - 51.35% | FALSE | TRUE |
| 11 | 47269851 - 47290584 | F - 2.70% | TRUE | TRUE |
| 11 | 66615704 - 66725847 | F - 11.11% | TRUE | TRUE |
| 11 | 66615704 - 66725847 | | TRUE | TRUE |
| 11 | 66615704 - 66725847 | T - 55.56% | TRUE | TRUE |
| 11 | 66615704 - 66725847 | | FALSE | TRUE |
| 11 | 66615704 - 66725847 | | TRUE | TRUE |
| 11 | 66615704 - 66725847 | | FALSE | TRUE |
| 12 | 52416616 - 52453291 | F - 6.25% | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 52416616 - 52453291 | | TRUE | TRUE |
| 12 | 52416616 - 52453291 | | FALSE | TRUE |
| 12 | 120565007 - 120632513 | T - 100.00% | TRUE | TRUE |
| 12 | 120565007 - 120632513 | | FALSE | TRUE |
| 12 | 120565007 - 120632513 | | TRUE | TRUE |
| 15 | 62853564 - 63136830 | F - 8.33% | TRUE | TRUE |
| 15 | 62853564 - 63136830 | F - 33.33% | TRUE | TRUE |
| 15 | 62853564 - 63136830 | T - 58.33% | TRUE | TRUE |
| 15 | 62853564 - 63136830 | | FALSE | TRUE |
| 15 | 62853564 - 63136830 | | FALSE | TRUE |
| 15 | 62853564 - 63136830 | | FALSE | TRUE |
| 15 | 62853564 - 63136830 | | TRUE | TRUE |
| 15 | 62853564 - 63136830 | | FALSE | TRUE |
| 15 | 28764757 - 28778143 | F - 40.00% | TRUE | TRUE |
| 15 | 28764757 - 28778143 | | TRUE | TRUE |
| 16 | 31724550 - 31806190 | | TRUE | TRUE |
| 16 | 31724550 - 31806190 | F - 15.38% | TRUE | TRUE |
| 16 | 31724550 - 31806190 | F - 15.38% | TRUE | TRUE |
| 16 | 30709530 - 30755602 | | FALSE | TRUE |
| 16 | 30709530 - 30755602 | F - 7.14% | TRUE | TRUE |
| 16 | 30709530 - 30755602 | | TRUE | TRUE |
| 17 | 26782770 - 26941211 | | TRUE | FALSE |
| 17 | 26782770 - 26941211 | | TRUE | TRUE |
| 17 | 26782770 - 26941211 | F - 21.05% | TRUE | TRUE |
| 17 | 26782770 - 26941211 | | FALSE | TRUE |
| 17 | 26782770 - 26941211 | F - 21.05% | FALSE | TRUE |
| 17 | 26782770 - 26941211 | | FALSE | TRUE |
| 17 | 26782770 - 26941211 | | FALSE | TRUE |
| 17 | 26782770 - 26941211 | | FALSE | TRUE |
| 17 | 26782770 - 26941211 | | FALSE | TRUE |
| 17 | 26782770 - 26941211 | | FALSE | TRUE |
| 19 | 35521592 - 35531353 | T - 100.00% | TRUE | TRUE |
| 19 | 35521592 - 35531353 | F - 25.00% | TRUE | TRUE |
| 19 | 35521592 - 35531353 | | TRUE | TRUE |
| 19 | 18893583 - 18902123 | T - 100.00% | TRUE | TRUE |
| 19 | 18893583 - 18902123 | | TRUE | FALSE |
| 19 | 18893583 - 18902123 | | TRUE | TRUE |
| 19 | 18893583 - 18902123 | | TRUE | TRUE |
| 19 | 18893583 - 18902123 | T - 88.89% | TRUE | FALSE |
| 19 | 18893583 - 18902123 | | TRUE | FALSE |
| 19 | 18893583 - 18902123 | | TRUE | TRUE |
| 19 | 18893583 - 18902123 | F - 22.22% | TRUE | TRUE |
| 1 | 17634690 - 17690499 | | TRUE | TRUE |
| 1 | 17634690 - 17690499 | T - 55.56% | TRUE | TRUE |
| 1 | 20990507 - 21044510 | F - 7.14% | TRUE | TRUE |
| 1 | 20990507 - 21044510 | F - 35.71% | TRUE | TRUE |
| 1 | 20990507 - 21044510 | F - 28.57% | TRUE | TRUE |
| 1 | 20990507 - 21044510 | | TRUE | TRUE |
| 3 | 122785856 - 122880953 | F - 11.11% | TRUE | TRUE |
| 3 | 122785856 - 122880953 | | TRUE | TRUE |
| 3 | 122785856 - 122880953 | | FALSE | TRUE |
| 5 | 180688213 - 180699308 | | TRUE | FALSE |
| 5 | 180688213 - 180699308 | T - 75.00% | TRUE | TRUE |
| 7 | 2393721 - 2420380 | F - 4.55% | TRUE | TRUE |
| 7 | 2393721 - 2420380 | | TRUE | TRUE |
| 7 | 2393721 - 2420380 | | TRUE | TRUE |
| 7 | 2393721 - 2420380 | | FALSE | TRUE |
| 8 | 11278972 - 11324276 | T - 57.14% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 8 | 11278972 - 11324276 | T - 71.43% | TRUE | FALSE |
| 8 | 11278972 - 11324276 | F - 28.57% | TRUE | TRUE |
| 8 | 11278972 - 11324276 | F - 28.57% | TRUE | TRUE |
| 8 | 11278972 - 11324276 | F - 14.29% | TRUE | TRUE |
| 8 | 11278972 - 11324276 | F - 14.29% | TRUE | TRUE |
| 8 | 11278972 - 11324276 | | FALSE | TRUE |
| 8 | 27454434 - 27472548 | | TRUE | TRUE |
| 8 | 27454434 - 27472548 | F - 11.54% | TRUE | TRUE |
| 8 | 27454434 - 27472548 | F - 26.92% | TRUE | TRUE |
| 8 | 27454434 - 27472548 | F - 3.85% | TRUE | TRUE |
| 8 | 27454434 - 27472548 | F - 7.69% | TRUE | TRUE |
| 8 | 27454434 - 27472548 | F - 3.85% | TRUE | TRUE |
| 8 | 27454434 - 27472548 | F - 7.69% | TRUE | TRUE |
| 11 | 33106130 - 33183077 | | TRUE | TRUE |
| 11 | 33106130 - 33183077 | | TRUE | TRUE |
| 11 | 33106130 - 33183077 | | TRUE | TRUE |
| 11 | 33106130 - 33183077 | F - 40.00% | TRUE | TRUE |
| 11 | 33106130 - 33183077 | | TRUE | FALSE |
| 12 | 19282626 - 19529334 | F - 28.00% | TRUE | FALSE |
| 12 | 19282626 - 19529334 | T - 56.00% | TRUE | TRUE |
| 12 | 19282626 - 19529334 | | TRUE | TRUE |
| 12 | 19282626 - 19529334 | | TRUE | TRUE |
| 12 | 9821233 - 9852151 | | TRUE | TRUE |
| 12 | 9821233 - 9852151 | F - 3.85% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | | TRUE | FALSE |
| 14 | 78636928 - 80330762 | F - 18.75% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | F - 12.50% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | F - 31.25% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | | TRUE | TRUE |
| 14 | 78636928 - 80330762 | | TRUE | TRUE |
| 14 | 78636928 - 80330762 | T - 87.50% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | | FALSE | TRUE |
| 14 | 78636928 - 80330762 | T - 87.50% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | F - 43.75% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | T - 93.75% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | T - 68.75% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | T - 87.50% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | F - 31.25% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | | TRUE | TRUE |
| 14 | 78636928 - 80330762 | T - 93.75% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | F - 31.25% | TRUE | TRUE |
| 14 | 78636928 - 80330762 | | TRUE | TRUE |
| 14 | 101245747 - 101327368 | F - 3.77% | TRUE | TRUE |
| 14 | 101245747 - 101327368 | | TRUE | TRUE |
| 14 | 101245747 - 101327368 | | TRUE | TRUE |
| 14 | 101245747 - 101327368 | | FALSE | TRUE |
| 17 | 3617919 - 3704537 | T - 75.00% | TRUE | FALSE |
| 17 | 3617919 - 3704537 | | FALSE | TRUE |
| 17 | 8076297 - 8079717 | | TRUE | TRUE |
| 17 | 8076297 - 8079717 | F - 33.33% | TRUE | TRUE |
| 20 | 43595115 - 43708618 | | FALSE | TRUE |
| 20 | 43595115 - 43708618 | F - 6.67% | TRUE | TRUE |
| 20 | 43595115 - 43708618 | | TRUE | FALSE |
| 20 | 43595115 - 43708618 | | FALSE | TRUE |
| 4 | 103749212 - 103765255 | | TRUE | FALSE |
| 4 | 103749212 - 103765255 | T - 100.00% | TRUE | TRUE |
| 1 | 155657751 - 155708803 | | TRUE | TRUE |
| 1 | 155657751 - 155708803 | F - 48.48% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 155657751 - 155708803 | F - 3.03% | TRUE | TRUE |
| 2 | 27255774 - 27264565 | F - 5.88% | TRUE | TRUE |
| 2 | 27255774 - 27264565 | | TRUE | TRUE |
| 2 | 27255774 - 27264565 | F - 5.88% | TRUE | TRUE |
| 2 | 120517207 - 120741394 | F - 41.18% | TRUE | TRUE |
| 2 | 120517207 - 120741394 | | TRUE | TRUE |
| 2 | 120517207 - 120741394 | T - 58.82% | TRUE | TRUE |
| 5 | 129240165 - 129522327 | | TRUE | FALSE |
| 5 | 129240165 - 129522327 | F - 25.00% | TRUE | TRUE |
| 5 | 129240165 - 129522327 | | TRUE | TRUE |
| 6 | 25963030 - 25985352 | | TRUE | TRUE |
| 6 | 25963030 - 25985352 | F - 16.67% | TRUE | TRUE |
| 6 | 147162525 - 147525750 | | TRUE | FALSE |
| 6 | 147162525 - 147525750 | | FALSE | TRUE |
| 6 | 147162525 - 147525750 | F - 36.36% | TRUE | TRUE |
| 6 | 147162525 - 147525750 | F - 18.18% | TRUE | TRUE |
| 6 | 147162525 - 147525750 | F - 27.27% | TRUE | TRUE |
| 6 | 147162525 - 147525750 | | FALSE | TRUE |
| 6 | 147162525 - 147525750 | | TRUE | TRUE |
| 7 | 143891951 - 143977640 | | TRUE | TRUE |
| 7 | 143891951 - 143977640 | F - 12.50% | TRUE | TRUE |
| 7 | 107564244 - 107643804 | F - 5.56% | TRUE | FALSE |
| 7 | 107564244 - 107643804 | | TRUE | FALSE |
| 8 | 87354967 - 87490649 | F - 5.88% | TRUE | TRUE |
| 8 | 87354967 - 87490649 | | TRUE | TRUE |
| 9 | 70849767 - 70914932 | | TRUE | FALSE |
| 9 | 70849767 - 70914932 | F - 4.17% | FALSE | TRUE |
| 9 | 70849767 - 70914932 | | TRUE | TRUE |
| 9 | 70849767 - 70914932 | F - 8.33% | TRUE | TRUE |
| 9 | 70849767 - 70914932 | F - 4.17% | TRUE | TRUE |
| 9 | 70849767 - 70914932 | | FALSE | TRUE |
| 9 | 72658497 - 72841888 | | TRUE | FALSE |
| 9 | 72658497 - 72841888 | | TRUE | TRUE |
| 9 | 72658497 - 72841888 | | TRUE | TRUE |
| 9 | 72658497 - 72841888 | | TRUE | FALSE |
| 9 | 72658497 - 72841888 | F - 16.67% | TRUE | FALSE |
| 9 | 72658497 - 72841888 | T - 66.67% | TRUE | TRUE |
| 10 | 120863598 - 120897496 | | TRUE | TRUE |
| 10 | 120863598 - 120897496 | | TRUE | TRUE |
| 10 | 120863598 - 120897496 | F - 4.55% | FALSE | TRUE |
| 10 | 71909960 - 71930285 | | TRUE | TRUE |
| 10 | 71909960 - 71930285 | T - 50.00% | TRUE | TRUE |
| 17 | 11924135 - 12047140 | F - 10.00% | TRUE | TRUE |
| 17 | 11924135 - 12047140 | | FALSE | TRUE |
| 18 | 2537524 - 2571508 | | TRUE | FALSE |
| 18 | 2537524 - 2571508 | T - 83.33% | TRUE | TRUE |
| 18 | 2537524 - 2571508 | | FALSE | TRUE |
| 20 | 6055492 - 6104191 | T - 80.00% | TRUE | FALSE |
| 20 | 6055492 - 6104191 | | FALSE | TRUE |
| 20 | 44527259 - 44541003 | | TRUE | TRUE |
| 20 | 44527259 - 44541003 | T - 100.00% | TRUE | TRUE |
| 20 | 44527259 - 44541003 | | TRUE | TRUE |
| 20 | 44527259 - 44541003 | | TRUE | FALSE |
| 20 | 44527259 - 44541003 | | TRUE | TRUE |
| 20 | 44527259 - 44541003 | F - 42.86% | TRUE | TRUE |
| 20 | 44527259 - 44541003 | F - 28.57% | TRUE | TRUE |
| 20 | 44527259 - 44541003 | F - 7.14% | TRUE | TRUE |
| 20 | 44527259 - 44541003 | F - 14.29% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 20 | 44527259 - 44541003 | | TRUE | TRUE |
| 20 | 44527259 - 44541003 | T - 71.43% | TRUE | TRUE |
| 20 | 44527259 - 44541003 | | TRUE | TRUE |
| 21 | 33964389 - 33985176 | T - 62.50% | FALSE | TRUE |
| 21 | 33964389 - 33985176 | | FALSE | TRUE |
| Un_gl000223 | 42780 - 68787 | F - 14.29% | TRUE | TRUE |
| Un_gl000223 | 42780 - 68787 | | TRUE | TRUE |
| 1 | 3773845 - 3801993 | F - 12.50% | TRUE | TRUE |
| 1 | 3773845 - 3801993 | | TRUE | TRUE |
| 1 | 117602925 - 117645492 | | TRUE | TRUE |
| 1 | 117602925 - 117645492 | | FALSE | TRUE |
| 1 | 117602925 - 117645492 | F - 36.36% | TRUE | TRUE |
| 1 | 117602925 - 117645492 | | FALSE | TRUE |
| 1 | 31838100 - 31849697 | | TRUE | TRUE |
| 1 | 31838100 - 31849697 | F - 20.00% | TRUE | TRUE |
| 1 | 31838100 - 31849697 | | TRUE | TRUE |
| 2 | 43393800 - 43823185 | | TRUE | TRUE |
| 2 | 43393800 - 43823185 | F - 2.94% | TRUE | FALSE |
| 2 | 43393800 - 43823185 | | FALSE | TRUE |
| 2 | 43393800 - 43823185 | F - 2.94% | TRUE | TRUE |
| 2 | 43393800 - 43823185 | | TRUE | TRUE |
| 2 | 43393800 - 43823185 | | TRUE | TRUE |
| 2 | 43393800 - 43823185 | | TRUE | TRUE |
| 3 | 180585929 - 180700539 | | TRUE | TRUE |
| 3 | 180585929 - 180700539 | | TRUE | TRUE |
| 3 | 180585929 - 180700539 | F - 3.23% | TRUE | TRUE |
| 3 | 180585929 - 180700539 | F - 45.16% | TRUE | TRUE |
| 4 | 76567953 - 76649795 | | TRUE | TRUE |
| 4 | 76567953 - 76649795 | F - 3.85% | TRUE | TRUE |
| 5 | 42423877 - 42721980 | F - 4.76% | TRUE | FALSE |
| 5 | 42423877 - 42721980 | F - 14.29% | TRUE | TRUE |
| 5 | 42423877 - 42721980 | F - 4.76% | TRUE | TRUE |
| 5 | 42423877 - 42721980 | F - 4.76% | TRUE | TRUE |
| 5 | 42423877 - 42721980 | | TRUE | TRUE |
| 5 | 795720 - 851101 | | TRUE | FALSE |
| 5 | 795720 - 851101 | | FALSE | TRUE |
| 5 | 795720 - 851101 | | FALSE | TRUE |
| 5 | 795720 - 851101 | | TRUE | TRUE |
| 5 | 795720 - 851101 | | FALSE | TRUE |
| 5 | 795720 - 851101 | F - 35.71% | TRUE | TRUE |
| 6 | 36125845 - 36164982 | | TRUE | FALSE |
| 6 | 36125845 - 36164982 | T - 50.00% | TRUE | TRUE |
| 7 | 73248920 - 73256865 | F - 16.67% | TRUE | TRUE |
| 7 | 73248920 - 73256865 | | TRUE | TRUE |
| 10 | 113909622 - 113975135 | | TRUE | TRUE |
| 10 | 113909622 - 113975135 | | TRUE | TRUE |
| 10 | 113909622 - 113975135 | F - 22.22% | TRUE | TRUE |
| 10 | 113909622 - 113975135 | | TRUE | TRUE |
| 10 | 113909622 - 113975135 | | TRUE | TRUE |
| 10 | 113909622 - 113975135 | | TRUE | TRUE |
| 10 | 113909622 - 113975135 | T - 55.56% | FALSE | TRUE |
| 11 | 43380435 - 43516483 | F - 20.00% | TRUE | TRUE |
| 11 | 43380435 - 43516483 | | TRUE | TRUE |
| 11 | 43380435 - 43516483 | | TRUE | TRUE |
| 12 | 20522179 - 20837315 | | TRUE | TRUE |
| 12 | 20522179 - 20837315 | F - 16.67% | TRUE | TRUE |
| 14 | 96747595 - 96830207 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 14 | 96747595 - 96830207 | | TRUE | TRUE |
| 14 | 96747595 - 96830207 | F - 20.00% | TRUE | FALSE |
| 14 | 96747595 - 96830207 | F - 40.00% | FALSE | TRUE |
| 15 | 56119120 - 56285835 | | TRUE | TRUE |
| 15 | 56119120 - 56285835 | | TRUE | TRUE |
| 15 | 56119120 - 56285835 | F - 31.58% | TRUE | TRUE |
| 15 | 56119120 - 56285835 | F - 26.32% | TRUE | TRUE |
| 15 | 56119120 - 56285835 | | FALSE | TRUE |
| 15 | 56119120 - 56285835 | | TRUE | TRUE |
| 15 | 56119120 - 56285835 | | TRUE | TRUE |
| 15 | 56119120 - 56285835 | | FALSE | TRUE |
| 17 | 57232860 - 57284070 | F - 25.00% | FALSE | TRUE |
| 17 | 57232860 - 57284070 | T - 75.00% | TRUE | TRUE |
| 17 | 57232860 - 57284070 | | TRUE | TRUE |
| 17 | 57232860 - 57284070 | | TRUE | TRUE |
| 17 | 65821637 - 65980494 | | TRUE | TRUE |
| 17 | 65821637 - 65980494 | F - 38.46% | TRUE | TRUE |
| 17 | 65821637 - 65980494 | | TRUE | TRUE |
| 18 | 13663346 - 13726591 | T - 71.43% | TRUE | TRUE |
| 18 | 13663346 - 13726591 | | TRUE | TRUE |
| 22 | 35796056 - 35820495 | | TRUE | FALSE |
| 22 | 35796056 - 35820495 | | TRUE | TRUE |
| 22 | 35796056 - 35820495 | | TRUE | TRUE |
| 22 | 35796056 - 35820495 | F - 47.06% | TRUE | TRUE |
| 22 | 51039114 - 51049979 | T - 100.00% | TRUE | TRUE |
| 22 | 51039114 - 51049979 | | FALSE | TRUE |
| 22 | 22311397 - 22337213 | F - 13.64% | TRUE | TRUE |
| 22 | 22311397 - 22337213 | | TRUE | TRUE |
| 22 | 22311397 - 22337213 | | TRUE | TRUE |
| 22 | 30821518 - 30825045 | T - 75.00% | TRUE | TRUE |
| 22 | 30821518 - 30825045 | | FALSE | TRUE |
| 1 | 101491409 - 101552821 | T - 66.67% | TRUE | TRUE |
| 1 | 101491409 - 101552821 | | TRUE | FALSE |
| 1 | 101491409 - 101552821 | | TRUE | TRUE |
| 1 | 51752930 - 51810788 | F - 24.00% | TRUE | TRUE |
| 1 | 51752930 - 51810788 | T - 56.00% | FALSE | TRUE |
| 1 | 51752930 - 51810788 | | FALSE | TRUE |
| 1 | 51752930 - 51810788 | | TRUE | TRUE |
| 2 | 109065017 - 109125871 | F - 16.67% | TRUE | TRUE |
| 2 | 109065017 - 109125871 | F - 5.56% | TRUE | TRUE |
| 2 | 109065017 - 109125871 | | TRUE | TRUE |
| 2 | 109065017 - 109125871 | F - 27.78% | TRUE | TRUE |
| 2 | 109065017 - 109125871 | | FALSE | TRUE |
| 2 | 55463731 - 55496483 | F - 6.25% | TRUE | TRUE |
| 2 | 55463731 - 55496483 | | TRUE | TRUE |
| 2 | 55463731 - 55496483 | | TRUE | TRUE |
| 2 | 105974169 - 106055230 | | TRUE | TRUE |
| 2 | 105974169 - 106055230 | | TRUE | TRUE |
| 2 | 105974169 - 106055230 | T - 78.26% | TRUE | TRUE |
| 2 | 233562009 - 233725289 | | TRUE | TRUE |
| 2 | 233562009 - 233725289 | | TRUE | TRUE |
| 2 | 233562009 - 233725289 | F - 25.40% | TRUE | TRUE |
| 2 | 233562009 - 233725289 | | TRUE | TRUE |
| 2 | 233562009 - 233725289 | F - 30.16% | TRUE | TRUE |
| 2 | 233562009 - 233725289 | | FALSE | TRUE |
| 2 | 233562009 - 233725289 | F - 9.52% | TRUE | TRUE |
| 2 | 233562009 - 233725289 | F - 1.59% | TRUE | TRUE |
| 2 | 233562009 - 233725289 | F - 38.10% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 2 | 233562009 - 233725289 | | FALSE | TRUE |
| 2 | 233562009 - 233725289 | | FALSE | TRUE |
| 2 | 233562009 - 233725289 | | TRUE | TRUE |
| 2 | 233562009 - 233725289 | | TRUE | TRUE |
| 3 | 97483365 - 97519953 | F - 30.77% | TRUE | TRUE |
| 3 | 97483365 - 97519953 | | TRUE | TRUE |
| 3 | 130569369 - 130735556 | F - 46.51% | TRUE | TRUE |
| 3 | 130569369 - 130735556 | | TRUE | TRUE |
| 5 | 78668459 - 78810040 | | TRUE | TRUE |
| 5 | 78668459 - 78810040 | F - 45.45% | TRUE | TRUE |
| 5 | 180028506 - 180076624 | | TRUE | TRUE |
| 5 | 180028506 - 180076624 | F - 38.89% | TRUE | TRUE |
| 5 | 180028506 - 180076624 | | FALSE | TRUE |
| 6 | 109711418 - 109762374 | T - 53.85% | TRUE | TRUE |
| 6 | 109711418 - 109762374 | T - 76.92% | TRUE | TRUE |
| 6 | 109711418 - 109762374 | | TRUE | TRUE |
| 7 | 36892511 - 37488895 | F - 16.13% | TRUE | FALSE |
| 7 | 36892511 - 37488895 | F - 3.23% | TRUE | TRUE |
| 7 | 36892511 - 37488895 | F - 3.23% | TRUE | TRUE |
| 7 | 36892511 - 37488895 | | TRUE | TRUE |
| 7 | 36892511 - 37488895 | | FALSE | TRUE |
| 7 | 105245221 - 105517050 | | TRUE | TRUE |
| 7 | 105245221 - 105517050 | F - 30.00% | TRUE | TRUE |
| 7 | 105245221 - 105517050 | F - 5.00% | TRUE | TRUE |
| 7 | 105245221 - 105517050 | T - 60.00% | TRUE | TRUE |
| 11 | 94963350 - 94967093 | | TRUE | TRUE |
| 11 | 94963350 - 94967093 | T - 66.67% | TRUE | TRUE |
| 13 | 111267807 - 111292342 | T - 82.35% | TRUE | TRUE |
| 13 | 111267807 - 111292342 | | TRUE | TRUE |
| 13 | 111766906 - 111958084 | | TRUE | TRUE |
| 13 | 111766906 - 111958084 | F - 29.03% | FALSE | TRUE |
| 13 | 111766906 - 111958084 | | TRUE | TRUE |
| 13 | 111766906 - 111958084 | F - 3.23% | TRUE | TRUE |
| 13 | 111766906 - 111958084 | | TRUE | TRUE |
| 13 | 111766906 - 111958084 | F - 6.45% | TRUE | TRUE |
| 15 | 80445122 - 80479288 | | TRUE | TRUE |
| 15 | 80445122 - 80479288 | | TRUE | FALSE |
| 15 | 80445122 - 80479288 | F - 25.00% | TRUE | TRUE |
| 15 | 80445122 - 80479288 | F - 33.33% | TRUE | TRUE |
| 17 | 36921942 - 36956158 | T - 80.00% | TRUE | TRUE |
| 17 | 36921942 - 36956158 | | FALSE | TRUE |
| 20 | 50668202 - 50820847 | F - 10.00% | TRUE | FALSE |
| 20 | 50668202 - 50820847 | | TRUE | TRUE |
| 20 | 50668202 - 50820847 | | TRUE | TRUE |
| 22 | 18270416 - 18507325 | F - 3.45% | TRUE | TRUE |
| 22 | 18270416 - 18507325 | | TRUE | TRUE |
| 1 | 229456752 - 229479041 | | TRUE | TRUE |
| 1 | 229456752 - 229479041 | T - 66.67% | TRUE | TRUE |
| 2 | 173600002 - 173917621 | T - 59.38% | TRUE | TRUE |
| 2 | 173600002 - 173917621 | F - 6.25% | TRUE | TRUE |
| 2 | 173600002 - 173917621 | | FALSE | TRUE |
| 2 | 173600002 - 173917621 | | FALSE | TRUE |
| 2 | 173600002 - 173917621 | | FALSE | TRUE |
| 3 | 119298115 - 119308792 | T - 54.55% | TRUE | TRUE |
| 3 | 119298115 - 119308792 | | FALSE | TRUE |
| 3 | 119298115 - 119308792 | | FALSE | TRUE |
| 3 | 119298115 - 119308792 | T - 72.73% | TRUE | TRUE |
| 3 | 119298115 - 119308792 | F - 9.09% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 3 | 119298115 - 119308792 | F - 18.18% | FALSE | TRUE |
| | 3 | 73431582 - 73674091 | F - 4.76% | TRUE | TRUE |
| | 3 | 73431582 - 73674091 | F - 23.81% | TRUE | TRUE |
| | 3 | 73431582 - 73674091 | | TRUE | TRUE |
| | 5 | 159488808 - 159546452 | | TRUE | TRUE |
| | 5 | 159488808 - 159546452 | F - 20.00% | FALSE | TRUE |
| | 7 | 76090972 - 76135312 | F - 2.70% | TRUE | TRUE |
| | 7 | 76090972 - 76135312 | | FALSE | TRUE |
| | 7 | 76090972 - 76135312 | | TRUE | TRUE |
| | 7 | 76090972 - 76135312 | F - 2.70% | FALSE | TRUE |
| | 8 | 41510739 - 41754280 | F - 36.67% | TRUE | FALSE |
| | 8 | 41510739 - 41754280 | T - 50.00% | FALSE | TRUE |
| | 8 | 41510739 - 41754280 | | FALSE | TRUE |
| | 8 | 41510739 - 41754280 | | FALSE | TRUE |
| | 8 | 41510739 - 41754280 | | TRUE | TRUE |
| | 8 | 41510739 - 41754280 | | FALSE | TRUE |
| | 8 | 41510739 - 41754280 | | TRUE | TRUE |
| X | | 100645812 - 100651142 | | TRUE | TRUE |
| X | | 100645812 - 100651142 | F - 13.33% | TRUE | TRUE |
| X | | 100645812 - 100651142 | | FALSE | TRUE |
| | 10 | 123748689 - 124014060 | | TRUE | FALSE |
| | 10 | 123748689 - 124014060 | F - 2.38% | TRUE | FALSE |
| | 10 | 123748689 - 124014060 | | FALSE | TRUE |
| | 10 | 61410522 - 61495760 | T - 80.00% | TRUE | TRUE |
| | 10 | 61410522 - 61495760 | | FALSE | TRUE |
| | 11 | 129769601 - 129872730 | | TRUE | TRUE |
| | 11 | 129769601 - 129872730 | T - 93.75% | TRUE | TRUE |
| | 11 | 129769601 - 129872730 | | TRUE | TRUE |
| | 11 | 129769601 - 129872730 | | FALSE | TRUE |
| | 12 | 100967461 - 101018697 | | TRUE | TRUE |
| | 12 | 100967461 - 101018697 | F - 25.00% | TRUE | TRUE |
| | 12 | 113376157 - 113411054 | F - 10.00% | TRUE | TRUE |
| | 12 | 113376157 - 113411054 | | FALSE | TRUE |
| | 12 | 113376157 - 113411054 | T - 80.00% | FALSE | TRUE |
| | 12 | 113376157 - 113411054 | F - 20.00% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | | TRUE | FALSE |
| | 12 | 47158544 - 47219780 | T - 100.00% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | T - 77.78% | TRUE | FALSE |
| | 12 | 47158544 - 47219780 | | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | T - 77.78% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | T - 100.00% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | T - 77.78% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | | TRUE | FALSE |
| | 12 | 47158544 - 47219780 | F - 33.33% | TRUE | FALSE |
| | 12 | 47158544 - 47219780 | T - 100.00% | TRUE | FALSE |
| | 12 | 47158544 - 47219780 | F - 22.22% | FALSE | TRUE |
| | 12 | 47158544 - 47219780 | T - 66.67% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | F - 22.22% | TRUE | TRUE |
| | 12 | 47158544 - 47219780 | | TRUE | TRUE |
| | 14 | 55614830 - 55658396 | F - 37.50% | TRUE | TRUE |
| | 14 | 55614830 - 55658396 | | TRUE | TRUE |
| | 14 | 55614830 - 55658396 | T - 87.50% | FALSE | TRUE |
| | 14 | 55614830 - 55658396 | T - 87.50% | TRUE | TRUE |
| | 14 | 55614830 - 55658396 | | FALSE | TRUE |
| | 16 | 25247322 - 25269252 | | TRUE | TRUE |
| | 16 | 25247322 - 25269252 | T - 100.00% | TRUE | TRUE |
| | 17 | 25621106 - 25640657 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 17 | 25621106 - 25640657 | F - 33.33% | TRUE | TRUE |
| 17 | 25621106 - 25640657 | | TRUE | TRUE |
| 17 | 25621106 - 25640657 | F - 41.67% | TRUE | TRUE |
| 17 | 25621106 - 25640657 | F - 8.33% | FALSE | TRUE |
| 17 | 27400528 - 27507430 | | TRUE | TRUE |
| 17 | 27400528 - 27507430 | F - 4.76% | TRUE | TRUE |
| 17 | 27400528 - 27507430 | | TRUE | TRUE |
| 17 | 27400528 - 27507430 | | FALSE | TRUE |
| 17 | 27400528 - 27507430 | | TRUE | TRUE |
| 17 | 27400528 - 27507430 | | FALSE | TRUE |
| 20 | 19867165 - 19983103 | | TRUE | TRUE |
| 20 | 19867165 - 19983103 | F - 18.18% | FALSE | TRUE |
| 20 | 19867165 - 19983103 | | TRUE | TRUE |
| 20 | 19867165 - 19983103 | F - 18.18% | TRUE | TRUE |
| 20 | 19867165 - 19983103 | F - 9.09% | FALSE | TRUE |
| 20 | 36322408 - 36500531 | | TRUE | FALSE |
| 20 | 36322408 - 36500531 | F - 14.29% | TRUE | TRUE |
| 20 | 36322408 - 36500531 | | FALSE | TRUE |
| 20 | 30435440 - 30458550 | | TRUE | TRUE |
| 20 | 30435440 - 30458550 | T - 93.33% | TRUE | TRUE |
| 20 | 30435440 - 30458550 | T - 80.00% | TRUE | TRUE |
| 20 | 30435440 - 30458550 | | TRUE | TRUE |
| 20 | 30435440 - 30458550 | | FALSE | TRUE |
| 20 | 30435440 - 30458550 | | FALSE | TRUE |
| 20 | 61872136 - 61904046 | T - 81.82% | TRUE | TRUE |
| 20 | 61872136 - 61904046 | F - 27.27% | TRUE | TRUE |
| 20 | 61872136 - 61904046 | F - 9.09% | TRUE | TRUE |
| 20 | 61872136 - 61904046 | | FALSE | TRUE |
| 1 | 153634512 - 153643524 | F - 12.50% | TRUE | TRUE |
| 1 | 153634512 - 153643524 | | TRUE | TRUE |
| 1 | 153901977 - 153919172 | F - 7.14% | TRUE | TRUE |
| 1 | 153901977 - 153919172 | | FALSE | TRUE |
| 1 | 153901977 - 153919172 | | TRUE | TRUE |
| 2 | 55746740 - 55773015 | F - 16.67% | TRUE | TRUE |
| 2 | 55746740 - 55773015 | | TRUE | TRUE |
| 2 | 55746740 - 55773015 | | TRUE | TRUE |
| 2 | 55746740 - 55773015 | | TRUE | TRUE |
| 3 | 38323785 - 38360066 | F - 9.09% | TRUE | FALSE |
| 3 | 38323785 - 38360066 | | TRUE | TRUE |
| 3 | 137906109 - 138017231 | | TRUE | TRUE |
| 3 | 137906109 - 138017231 | | TRUE | TRUE |
| 3 | 137906109 - 138017231 | | FALSE | TRUE |
| 3 | 137906109 - 138017231 | F - 2.63% | TRUE | TRUE |
| 3 | 137906109 - 138017231 | | FALSE | TRUE |
| 3 | 138213186 - 138313380 | | TRUE | TRUE |
| 3 | 138213186 - 138313380 | T - 75.00% | TRUE | FALSE |
| 3 | 138213186 - 138313380 | | TRUE | TRUE |
| 3 | 138213186 - 138313380 | F - 5.00% | TRUE | TRUE |
| 3 | 138213186 - 138313380 | | TRUE | TRUE |
| 3 | 138213186 - 138313380 | F - 5.00% | TRUE | TRUE |
| 3 | 138213186 - 138313380 | F - 5.00% | TRUE | TRUE |
| 3 | 138213186 - 138313380 | F - 10.00% | TRUE | FALSE |
| 3 | 138213186 - 138313380 | F - 30.00% | TRUE | TRUE |
| 3 | 138213186 - 138313380 | T - 80.00% | TRUE | TRUE |
| 3 | 138213186 - 138313380 | F - 30.00% | TRUE | FALSE |
| 3 | 138213186 - 138313380 | F - 5.00% | TRUE | TRUE |
| 3 | 138213186 - 138313380 | F - 5.00% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 3 | 138213186 - 138313380 | T - 50.00% | TRUE | TRUE |
| | 3 | 138213186 - 138313380 | | FALSE | TRUE |
| | 3 | 138213186 - 138313380 | | FALSE | TRUE |
| | 4 | 184020446 - 184241930 | F - 11.11% | TRUE | TRUE |
| | 4 | 184020446 - 184241930 | | FALSE | TRUE |
| | 5 | 38845960 - 38945698 | F - 14.29% | FALSE | TRUE |
| | 5 | 38845960 - 38945698 | | TRUE | FALSE |
| | 5 | 38845960 - 38945698 | | TRUE | TRUE |
| | 5 | 38845960 - 38945698 | | TRUE | TRUE |
| | 5 | 43486803 - 43515273 | T - 50.00% | TRUE | TRUE |
| | 5 | 43486803 - 43515273 | | TRUE | TRUE |
| | 5 | 43486803 - 43515273 | | FALSE | TRUE |
| | 8 | 38846327 - 38854343 | | TRUE | TRUE |
| | 8 | 38846327 - 38854343 | | TRUE | FALSE |
| | 8 | 38846327 - 38854343 | F - 35.29% | TRUE | TRUE |
| | 9 | 119187504 - 120177348 | T - 78.95% | TRUE | TRUE |
| | 9 | 119187504 - 120177348 | | TRUE | TRUE |
| | 9 | 119187504 - 120177348 | | FALSE | TRUE |
| X | | 54219256 - 54385075 | | TRUE | TRUE |
| X | | 54219256 - 54385075 | | TRUE | FALSE |
| X | | 54219256 - 54385075 | T - 80.00% | TRUE | TRUE |
| X | | 54219256 - 54385075 | T - 60.00% | TRUE | TRUE |
| X | | 54219256 - 54385075 | T - 80.00% | TRUE | TRUE |
| | 11 | 112831969 - 113149158 | F - 47.37% | TRUE | FALSE |
| | 11 | 112831969 - 113149158 | T - 78.95% | TRUE | TRUE |
| | 11 | 112831969 - 113149158 | | TRUE | TRUE |
| | 11 | 112831969 - 113149158 | | FALSE | TRUE |
| | 14 | 36007558 - 36278510 | F - 8.33% | TRUE | TRUE |
| | 14 | 36007558 - 36278510 | | FALSE | TRUE |
| | 14 | 36007558 - 36278510 | | TRUE | TRUE |
| | 14 | 36007558 - 36278510 | | FALSE | TRUE |
| | 14 | 74964873 - 75079034 | T - 80.00% | TRUE | TRUE |
| | 14 | 74964873 - 75079034 | | TRUE | TRUE |
| | 14 | 99864083 - 99947233 | F - 7.69% | TRUE | TRUE |
| | 14 | 99864083 - 99947233 | | TRUE | TRUE |
| | 15 | 35147732 - 35262040 | F - 33.33% | TRUE | TRUE |
| | 15 | 35147732 - 35262040 | | TRUE | TRUE |
| | 17 | 54965270 - 54991409 | | TRUE | TRUE |
| | 17 | 54965270 - 54991409 | T - 80.00% | TRUE | TRUE |
| | 17 | 54965270 - 54991409 | | FALSE | TRUE |
| | 17 | 78109013 - 78120982 | F - 40.00% | TRUE | TRUE |
| | 17 | 78109013 - 78120982 | T - 100.00% | TRUE | TRUE |
| | 17 | 78109013 - 78120982 | | TRUE | TRUE |
| | 19 | 12125532 - 12146556 | | TRUE | TRUE |
| | 19 | 12125532 - 12146556 | T - 50.00% | FALSE | TRUE |
| | 19 | 46195741 - 46244011 | | TRUE | TRUE |
| | 19 | 46195741 - 46244011 | T - 80.00% | FALSE | TRUE |
| | 1 | 12227060 - 12269285 | F - 45.45% | TRUE | TRUE |
| | 1 | 12227060 - 12269285 | | FALSE | TRUE |
| | 1 | 67465015 - 67520080 | | TRUE | TRUE |
| | 1 | 67465015 - 67520080 | F - 25.00% | TRUE | TRUE |
| | 4 | 5544499 - 5711275 | | TRUE | TRUE |
| | 4 | 5544499 - 5711275 | | TRUE | TRUE |
| | 4 | 5544499 - 5711275 | T - 100.00% | TRUE | TRUE |
| | 4 | 5544499 - 5711275 | | FALSE | TRUE |
| | 4 | 89181532 - 89205921 | | TRUE | TRUE |
| | 4 | 89181532 - 89205921 | | TRUE | FALSE |
| | 4 | 89181532 - 89205921 | F - 6.25% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 4 | 89181532 - 89205921 | F - 12.50% | TRUE | TRUE |
| 4 | 89181532 - 89205921 | F - 12.50% | TRUE | TRUE |
| 4 | 89181532 - 89205921 | | TRUE | TRUE |
| 5 | 70330784 - 70363516 | | TRUE | FALSE |
| 5 | 70330784 - 70363516 | F - 4.35% | FALSE | TRUE |
| 5 | 70330784 - 70363516 | F - 8.70% | TRUE | TRUE |
| 5 | 70330784 - 70363516 | | FALSE | TRUE |
| 7 | 45002260 - 45018704 | F - 26.67% | TRUE | TRUE |
| 7 | 45002260 - 45018704 | | TRUE | FALSE |
| 9 | 131174030 - 131199630 | | TRUE | TRUE |
| 9 | 131174030 - 131199630 | F - 15.00% | TRUE | TRUE |
| 9 | 131174030 - 131199630 | F - 5.00% | FALSE | TRUE |
| 9 | 131174030 - 131199630 | F - 30.00% | TRUE | TRUE |
| 9 | 131174030 - 131199630 | F - 20.00% | FALSE | TRUE |
| 9 | 131174030 - 131199630 | F - 15.00% | TRUE | TRUE |
| 9 | 3824127 - 4348392 | | TRUE | FALSE |
| 9 | 3824127 - 4348392 | F - 10.81% | TRUE | TRUE |
| 9 | 3824127 - 4348392 | | FALSE | TRUE |
| 9 | 3824127 - 4348392 | F - 5.41% | TRUE | TRUE |
| 9 | 3824127 - 4348392 | | FALSE | TRUE |
| 9 | 3824127 - 4348392 | | TRUE | TRUE |
| 9 | 130702858 - 130742812 | | TRUE | TRUE |
| 9 | 130702858 - 130742812 | F - 8.33% | TRUE | TRUE |
| 9 | 130702858 - 130742812 | | TRUE | TRUE |
| 9 | 130702858 - 130742812 | F - 8.33% | TRUE | TRUE |
| 9 | 130702858 - 130742812 | F - 33.33% | FALSE | TRUE |
| 9 | 130702858 - 130742812 | F - 25.00% | TRUE | TRUE |
| 9 | 130702858 - 130742812 | | TRUE | TRUE |
| 15 | 84904525 - 84914120 | | TRUE | FALSE |
| 15 | 84904525 - 84914120 | F - 20.00% | TRUE | TRUE |
| 15 | 55647421 - 55700708 | | TRUE | FALSE |
| 15 | 55647421 - 55700708 | T - 61.54% | TRUE | TRUE |
| 16 | 81812899 - 81991899 | | TRUE | FALSE |
| 16 | 81812899 - 81991899 | | FALSE | TRUE |
| 16 | 81812899 - 81991899 | | FALSE | TRUE |
| 16 | 81812899 - 81991899 | T - 75.00% | FALSE | TRUE |
| 16 | 81812899 - 81991899 | | FALSE | TRUE |
| 16 | 81812899 - 81991899 | | FALSE | TRUE |
| 16 | 81812899 - 81991899 | | FALSE | TRUE |
| 16 | 81812899 - 81991899 | | FALSE | TRUE |
| 16 | 2047768 - 2059763 | T - 66.67% | TRUE | TRUE |
| 16 | 2047768 - 2059763 | | FALSE | TRUE |
| 17 | 27369918 - 27384236 | | TRUE | TRUE |
| 17 | 27369918 - 27384236 | T - 50.00% | TRUE | TRUE |
| 18 | 29843484 - 30050447 | T - 100.00% | TRUE | TRUE |
| 18 | 29843484 - 30050447 | | TRUE | TRUE |
| 6_qbl_hap6 | 1960516 - 1978597 | F - 23.08% | TRUE | TRUE |
| 6_qbl_hap6 | 1960516 - 1978597 | | FALSE | TRUE |
| 1 | 40420784 - 40435638 | | TRUE | TRUE |
| 1 | 40420784 - 40435638 | | TRUE | TRUE |
| 1 | 40420784 - 40435638 | F - 5.56% | TRUE | TRUE |
| 1 | 40420784 - 40435638 | F - 16.67% | TRUE | TRUE |
| 1 | 40420784 - 40435638 | F - 5.56% | TRUE | TRUE |
| 1 | 40420784 - 40435638 | | FALSE | TRUE |
| 1 | 40420784 - 40435638 | F - 5.56% | TRUE | TRUE |
| 1 | 40420784 - 40435638 | T - 61.11% | TRUE | TRUE |
| 1 | 40420784 - 40435638 | T - 66.67% | TRUE | TRUE |
| 1 | 40420784 - 40435638 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 1 | 40420784 - 40435638 | | TRUE | TRUE |
| | 2 | 100016938 - 100106497 | | TRUE | TRUE |
| | 2 | 100016938 - 100106497 | F - 20.00% | TRUE | TRUE |
| | 2 | 172639915 - 172864766 | | TRUE | TRUE |
| | 2 | 172639915 - 172864766 | | TRUE | FALSE |
| | 2 | 172639915 - 172864766 | | TRUE | TRUE |
| | 2 | 172639915 - 172864766 | F - 7.14% | TRUE | TRUE |
| | 2 | 172639915 - 172864766 | F - 7.14% | FALSE | TRUE |
| | 2 | 172639915 - 172864766 | F - 7.14% | FALSE | TRUE |
| | 2 | 172639915 - 172864766 | | FALSE | TRUE |
| | 5 | 155135063 - 156194798 | | TRUE | TRUE |
| | 5 | 155135063 - 156194798 | | TRUE | FALSE |
| | 5 | 155135063 - 156194798 | | TRUE | TRUE |
| | 5 | 155135063 - 156194798 | | TRUE | TRUE |
| | 5 | 155135063 - 156194798 | F - 20.00% | TRUE | TRUE |
| | 5 | 155135063 - 156194798 | T - 60.00% | TRUE | TRUE |
| | 5 | 155135063 - 156194798 | T - 70.00% | TRUE | TRUE |
| | 5 | 155135063 - 156194798 | F - 10.00% | TRUE | TRUE |
| | 6 | 28393287 - 28411279 | | TRUE | FALSE |
| | 6 | 28393287 - 28411279 | F - 25.00% | TRUE | TRUE |
| | 6 | 28393287 - 28411279 | | FALSE | TRUE |
| | 6 | 28393287 - 28411279 | F - 37.50% | TRUE | TRUE |
| | 6 | 28393287 - 28411279 | T - 62.50% | FALSE | TRUE |
| | 6 | 28393287 - 28411279 | T - 50.00% | TRUE | TRUE |
| | 6 | 28393287 - 28411279 | F - 25.00% | TRUE | TRUE |
| | 7 | 26438213 - 26538594 | | TRUE | FALSE |
| | 7 | 26438213 - 26538594 | F - 18.18% | FALSE | TRUE |
| | 9 | 139553308 - 139567130 | | TRUE | TRUE |
| | 9 | 139553308 - 139567130 | | FALSE | TRUE |
| | 9 | 139553308 - 139567130 | T - 76.92% | TRUE | TRUE |
| | 9 | 139553308 - 139567130 | | TRUE | TRUE |
| | 9 | 139553308 - 139567130 | | TRUE | TRUE |
| X | | 2670091 - 2734541 | | TRUE | FALSE |
| X | | 2670091 - 2734541 | | TRUE | FALSE |
| X | | 2670091 - 2734541 | F - 28.57% | TRUE | FALSE |
| X | | 21857656 - 21903542 | | TRUE | FALSE |
| X | | 21857656 - 21903542 | F - 14.29% | TRUE | TRUE |
| | 10 | 88718288 - 88723017 | F - 16.67% | TRUE | TRUE |
| | 10 | 88718288 - 88723017 | | FALSE | TRUE |
| | 10 | 88718288 - 88723017 | | FALSE | TRUE |
| | 10 | 88718288 - 88723017 | T - 100.00% | FALSE | TRUE |
| | 11 | 118977452 - 118989252 | T - 83.33% | TRUE | TRUE |
| | 11 | 118977452 - 118989252 | | FALSE | TRUE |
| | 13 | 53029495 - 53050763 | F - 21.43% | TRUE | TRUE |
| | 13 | 53029495 - 53050763 | F - 21.43% | FALSE | TRUE |
| | 13 | 53029495 - 53050763 | | FALSE | TRUE |
| | 13 | 53029495 - 53050763 | | TRUE | TRUE |
| | 15 | 83477973 - 83503613 | T - 100.00% | TRUE | TRUE |
| | 15 | 83477973 - 83503613 | | TRUE | TRUE |
| | 16 | 81134484 - 81253976 | | TRUE | TRUE |
| | 16 | 81134484 - 81253976 | F - 28.57% | FALSE | TRUE |
| | 16 | 81134484 - 81253976 | | FALSE | TRUE |
| | 19 | 11487881 - 11495018 | | FALSE | TRUE |
| | 19 | 11487881 - 11495018 | T - 100.00% | TRUE | TRUE |
| | 21 | 46493768 - 46646478 | | TRUE | TRUE |
| | 21 | 46493768 - 46646478 | F - 11.54% | TRUE | TRUE |
| | 21 | 46493768 - 46646478 | T - 76.92% | TRUE | TRUE |
| | 21 | 46493768 - 46646478 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 21 | 46493768 - 46646478 | T - 73.08% | TRUE | TRUE |
| 21 | 46493768 - 46646478 | F - 11.54% | TRUE | TRUE |
| 21 | 46493768 - 46646478 | F - 3.85% | TRUE | TRUE |
| 21 | 46493768 - 46646478 | | TRUE | TRUE |
| 21 | 46493768 - 46646478 | F - 3.85% | TRUE | TRUE |
| 21 | 46493768 - 46646478 | | TRUE | TRUE |
| 6_apd_hap1 | 1108937 - 1151099 | | TRUE | TRUE |
| 6_apd_hap1 | 1108937 - 1151099 | T - 100.00% | TRUE | TRUE |
| 6_cox_hap2 | 1380801 - 1422964 | | TRUE | TRUE |
| 6_cox_hap2 | 1380801 - 1422964 | T - 100.00% | TRUE | TRUE |
| 10 | 14939358 - 15063862 | | TRUE | TRUE |
| 10 | 14939358 - 15063862 | F - 15.63% | FALSE | TRUE |
| 14 | 74181825 - 74256988 | | TRUE | TRUE |
| 14 | 74181825 - 74256988 | | TRUE | TRUE |
| 14 | 74181825 - 74256988 | F - 6.25% | FALSE | TRUE |
| 14 | 74181825 - 74256988 | | FALSE | TRUE |
| 14 | 74181825 - 74256988 | | FALSE | TRUE |
| 14 | 74181825 - 74256988 | | TRUE | TRUE |
| 14 | 74181825 - 74256988 | | FALSE | TRUE |
| 14 | 78227173 - 78236085 | | TRUE | FALSE |
| 14 | 78227173 - 78236085 | T - 83.33% | TRUE | TRUE |
| 1 | 75198836 - 75232362 | | TRUE | TRUE |
| 1 | 75198836 - 75232362 | T - 85.71% | TRUE | TRUE |
| 2 | 1635659 - 1748624 | | TRUE | FALSE |
| 2 | 1635659 - 1748624 | F - 5.88% | FALSE | TRUE |
| 2 | 1635659 - 1748624 | F - 11.76% | TRUE | TRUE |
| 3 | 10289707 - 10335133 | | TRUE | TRUE |
| 3 | 10289707 - 10335133 | | TRUE | TRUE |
| 3 | 10289707 - 10335133 | | FALSE | TRUE |
| 3 | 10289707 - 10335133 | F - 23.68% | TRUE | TRUE |
| 3 | 10289707 - 10335133 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | FALSE |
| 3 | 141043055 - 141168634 | F - 3.70% | FALSE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | F - 3.70% | TRUE | TRUE |
| 3 | 141043055 - 141168634 | F - 44.44% | TRUE | TRUE |
| 3 | 141043055 - 141168634 | F - 18.52% | TRUE | TRUE |
| 3 | 141043055 - 141168634 | F - 7.41% | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 141043055 - 141168634 | | TRUE | TRUE |
| 3 | 142534764 - 142608045 | F - 27.27% | TRUE | TRUE |
| 3 | 142534764 - 142608045 | | TRUE | TRUE |
| 4 | 48499378 - 48782339 | F - 35.48% | TRUE | TRUE |
| 4 | 48499378 - 48782339 | | TRUE | TRUE |
| 4 | 48499378 - 48782339 | | TRUE | TRUE |
| 4 | 48499378 - 48782339 | | TRUE | TRUE |
| 7 | 12250848 - 12276890 | F - 25.00% | FALSE | TRUE |
| 7 | 12250848 - 12276890 | | FALSE | TRUE |
| 7 | 56131695 - 56148365 | F - 42.86% | TRUE | TRUE |
| 7 | 56131695 - 56148365 | | TRUE | TRUE |
| 7 | 56131695 - 56148365 | T - 50.00% | FALSE | TRUE |
| 7 | 5566779 - 5603415 | F - 15.38% | TRUE | TRUE |
| 7 | 5566779 - 5603415 | | FALSE | TRUE |
| 7 | 5566779 - 5603415 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| X | 44382885 - 44402247 | | TRUE | TRUE |
| X | 44382885 - 44402247 | T - 60.00% | TRUE | TRUE |
| X | 153029651 - 153045940 | | TRUE | TRUE |
| X | 153029651 - 153045940 | T - 50.00% | TRUE | FALSE |
| 10 | 6319650 - 6377938 | | TRUE | TRUE |
| 10 | 6319650 - 6377938 | | FALSE | TRUE |
| 10 | 6319650 - 6377938 | T - 100.00% | TRUE | TRUE |
| 10 | 127512104 - 127542264 | | TRUE | TRUE |
| 10 | 127512104 - 127542264 | F - 8.33% | FALSE | TRUE |
| 10 | 129894923 - 129924649 | F - 16.67% | TRUE | TRUE |
| 10 | 129894923 - 129924649 | | TRUE | TRUE |
| 10 | 129894923 - 129924649 | | FALSE | TRUE |
| 13 | 44398045 - 44453827 | F - 42.86% | TRUE | TRUE |
| 13 | 44398045 - 44453827 | | FALSE | TRUE |
| 15 | 40453210 - 40569688 | | TRUE | TRUE |
| 15 | 40453210 - 40569688 | F - 33.33% | FALSE | TRUE |
| 15 | 40453210 - 40569688 | F - 33.33% | TRUE | TRUE |
| 15 | 40453210 - 40569688 | F - 33.33% | FALSE | TRUE |
| 15 | 40453210 - 40569688 | | TRUE | TRUE |
| 15 | 40453210 - 40569688 | F - 33.33% | TRUE | TRUE |
| 15 | 40453210 - 40569688 | | FALSE | TRUE |
| 15 | 40453210 - 40569688 | F - 33.33% | FALSE | TRUE |
| 15 | 40453210 - 40569688 | | TRUE | TRUE |
| 15 | 40453210 - 40569688 | | FALSE | TRUE |
| 15 | 40453210 - 40569688 | | FALSE | TRUE |
| 15 | 40453210 - 40569688 | F - 33.33% | FALSE | TRUE |
| 17 | 4801064 - 4806369 | T - 100.00% | TRUE | TRUE |
| 17 | 4801064 - 4806369 | | TRUE | FALSE |
| 17 | 4801064 - 4806369 | | TRUE | TRUE |
| 17 | 4801064 - 4806369 | T - 100.00% | TRUE | TRUE |
| 17 | 4801064 - 4806369 | | FALSE | TRUE |
| 19 | 12035900 - 12061588 | T - 50.00% | TRUE | TRUE |
| 19 | 12035900 - 12061588 | | TRUE | TRUE |
| 19 | 12035900 - 12061588 | T - 75.00% | TRUE | TRUE |
| 21 | 27252861 - 27543446 | F - 3.23% | TRUE | TRUE |
| 21 | 27252861 - 27543446 | | TRUE | TRUE |
| 22 | 25421600 - 25593415 | | TRUE | TRUE |
| 22 | 25421600 - 25593415 | | TRUE | TRUE |
| 22 | 25421600 - 25593415 | | FALSE | TRUE |
| 22 | 25421600 - 25593415 | F - 22.22% | TRUE | TRUE |
| 22 | 32149937 - 32303020 | | TRUE | TRUE |
| 22 | 32149937 - 32303020 | | TRUE | TRUE |
| 22 | 32149937 - 32303020 | F - 27.27% | FALSE | TRUE |
| 22 | 32149937 - 32303020 | F - 2.27% | FALSE | TRUE |
| 22 | 32149937 - 32303020 | | TRUE | TRUE |
| 22 | 32149937 - 32303020 | | TRUE | TRUE |
| 1 | 156117157 - 156147543 | T - 50.00% | TRUE | TRUE |
| 1 | 156117157 - 156147543 | | FALSE | TRUE |
| 1 | 156117157 - 156147543 | | FALSE | TRUE |
| 1 | 156117157 - 156147543 | | FALSE | TRUE |
| 1 | 21069154 - 21113816 | | TRUE | TRUE |
| 1 | 21069154 - 21113816 | | TRUE | TRUE |
| 1 | 21069154 - 21113816 | F - 13.04% | TRUE | TRUE |
| 1 | 21069154 - 21113816 | F - 8.70% | TRUE | TRUE |
| 1 | 24128367 - 24165110 | F - 5.88% | TRUE | TRUE |
| 1 | 24128367 - 24165110 | | FALSE | TRUE |
| 2 | 15731302 - 15771235 | F - 9.09% | TRUE | TRUE |
| 2 | 15731302 - 15771235 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|-------|
| | 2 | 15731302 - 15771235 | | FALSE | TRUE |
| | 2 | 97747779 - 97760619 | | TRUE | TRUE |
| | 2 | 97747779 - 97760619 | F - 8.33% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 38.10% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 9.52% | TRUE | FALSE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 9.52% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | FALSE | TRUE |
| | 3 | 42846246 - 42941828 | T - 52.38% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | FALSE | TRUE |
| | 3 | 42846246 - 42941828 | F - 19.05% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | T - 76.19% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 23.81% | FALSE | TRUE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | T - 71.43% | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | | TRUE | TRUE |
| | 3 | 42846246 - 42941828 | F - 4.76% | TRUE | TRUE |
| | 4 | 129190392 - 129209984 | | TRUE | FALSE |
| | 4 | 129190392 - 129209984 | F - 18.18% | FALSE | TRUE |
| | 4 | 129190392 - 129209984 | F - 9.09% | TRUE | TRUE |
| | 5 | 148651401 - 148721367 | | TRUE | TRUE |
| | 5 | 148651401 - 148721367 | T - 63.64% | TRUE | TRUE |
| | 5 | 148651401 - 148721367 | | FALSE | TRUE |
| | 7 | 148504464 - 148581441 | F - 47.37% | TRUE | TRUE |
| | 7 | 148504464 - 148581441 | T - 94.74% | TRUE | TRUE |
| | 7 | 148504464 - 148581441 | | TRUE | TRUE |
| | 7 | 148504464 - 148581441 | | FALSE | TRUE |
| | 8 | 23386318 - 23432976 | | TRUE | TRUE |
| | 8 | 23386318 - 23432976 | F - 19.05% | TRUE | TRUE |
| | 8 | 23386318 - 23432976 | | TRUE | TRUE |
| | 9 | 124329336 - 124547809 | | TRUE | TRUE |
| | 9 | 124329336 - 124547809 | | TRUE | TRUE |
| | 9 | 124329336 - 124547809 | | FALSE | TRUE |
| | 9 | 124329336 - 124547809 | F - 30.77% | TRUE | TRUE |
| | 9 | 124329336 - 124547809 | | FALSE | TRUE |
| X | | 105066536 - 105202602 | | TRUE | TRUE |
| X | | 105066536 - 105202602 | T - 55.56% | TRUE | TRUE |
| X | | 105066536 - 105202602 | | FALSE | TRUE |
| X | | 105066536 - 105202602 | F - 11.11% | TRUE | TRUE |
| X | | 105066536 - 105202602 | F - 11.11% | TRUE | TRUE |
| | 11 | 125034559 - 125303285 | | TRUE | TRUE |
| | 11 | 125034559 - 125303285 | | FALSE | TRUE |
| | 11 | 125034559 - 125303285 | F - 46.15% | TRUE | TRUE |
| | 11 | 125034559 - 125303285 | | FALSE | TRUE |
| | 12 | 31226779 - 31257725 | | TRUE | TRUE |
| | 12 | 31226779 - 31257725 | T - 83.33% | FALSE | TRUE |
| | 12 | 102513956 - 102591298 | | TRUE | TRUE |
| | 12 | 102513956 - 102591298 | F - 5.00% | TRUE | FALSE |
| | 12 | 102513956 - 102591298 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 14 | 80943330 - 81425828 | | TRUE | FALSE |
| 14 | 80943330 - 81425828 | T - 61.54% | TRUE | TRUE |
| 14 | 80943330 - 81425828 | | FALSE | TRUE |
| 14 | 80943330 - 81425828 | | TRUE | TRUE |
| 19 | 58595206 - 58629793 | | TRUE | FALSE |
| 19 | 58595206 - 58629793 | T - 91.67% | TRUE | TRUE |
| 1 | 65713902 - 65881689 | F - 25.00% | TRUE | TRUE |
| 1 | 65713902 - 65881689 | | TRUE | TRUE |
| 1 | 65713902 - 65881689 | | FALSE | TRUE |
| 2 | 20191813 - 20212455 | | TRUE | TRUE |
| 2 | 20191813 - 20212455 | F - 16.67% | TRUE | TRUE |
| 2 | 20191813 - 20212455 | | TRUE | TRUE |
| 2 | 20191813 - 20212455 | T - 50.00% | TRUE | TRUE |
| 2 | 20191813 - 20212455 | T - 83.33% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | T - 76.92% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | T - 84.62% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | F - 7.69% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | F - 15.38% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | F - 7.69% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | F - 7.69% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 46919236 - 46945289 | F - 7.69% | TRUE | TRUE |
| 3 | 46919236 - 46945289 | | TRUE | TRUE |
| 3 | 197518097 - 197615307 | | TRUE | TRUE |
| 3 | 197518097 - 197615307 | | TRUE | TRUE |
| 3 | 197518097 - 197615307 | F - 4.17% | FALSE | TRUE |
| 3 | 194123401 - 194219093 | F - 6.67% | TRUE | TRUE |
| 3 | 194123401 - 194219093 | | TRUE | TRUE |
| 3 | 194123401 - 194219093 | | TRUE | TRUE |
| 3 | 194123401 - 194219093 | F - 6.67% | TRUE | TRUE |
| 3 | 194123401 - 194219093 | | TRUE | TRUE |
| 3 | 194123401 - 194219093 | | TRUE | TRUE |
| 4 | 166128770 - 166244308 | T - 86.67% | TRUE | TRUE |
| 4 | 166128770 - 166244308 | F - 6.67% | FALSE | TRUE |
| 4 | 166128770 - 166244308 | | FALSE | TRUE |
| 7 | 87505531 - 87538856 | | TRUE | FALSE |
| 7 | 87505531 - 87538856 | T - 53.85% | TRUE | TRUE |
| 7 | 87505531 - 87538856 | | TRUE | TRUE |
| 8 | 11653082 - 11696818 | F - 12.00% | TRUE | TRUE |
| 8 | 11653082 - 11696818 | | TRUE | TRUE |
| 8 | 59496063 - 59572404 | F - 30.00% | TRUE | TRUE |
| 8 | 59496063 - 59572404 | | FALSE | TRUE |
| 9 | 88161454 - 88356944 | T - 66.67% | TRUE | FALSE |
| 9 | 88161454 - 88356944 | | TRUE | TRUE |
| 9 | 88161454 - 88356944 | | TRUE | TRUE |
| X | 66763874 - 66950461 | T - 50.00% | TRUE | TRUE |
| X | 66763874 - 66950461 | | TRUE | TRUE |
| X | 66763874 - 66950461 | F - 25.00% | TRUE | TRUE |
| X | 66763874 - 66950461 | | TRUE | TRUE |
| X | 66763874 - 66950461 | T - 56.25% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| X | 41374187 - 41782716 | | TRUE | TRUE |
| X | 41374187 - 41782716 | F - 4.76% | FALSE | TRUE |
| X | 41374187 - 41782716 | | FALSE | TRUE |
| X | 41374187 - 41782716 | F - 4.76% | TRUE | TRUE |
| X | 41374187 - 41782716 | | FALSE | TRUE |
| 10 | 95653730 - 95715819 | | TRUE | TRUE |
| 10 | 95653730 - 95715819 | F - 8.33% | FALSE | TRUE |
| 10 | 95653730 - 95715819 | | TRUE | TRUE |
| 11 | 111652919 - 111742305 | T - 66.67% | TRUE | TRUE |
| 11 | 111652919 - 111742305 | | TRUE | TRUE |
| 11 | 111652919 - 111742305 | | FALSE | TRUE |
| 17 | 6354583 - 6459877 | F - 16.67% | TRUE | TRUE |
| 17 | 6354583 - 6459877 | T - 66.67% | FALSE | TRUE |
| 17 | 6354583 - 6459877 | | TRUE | TRUE |
| 17 | 6354583 - 6459877 | | TRUE | TRUE |
| 1 | 249132409 - 249143716 | | TRUE | FALSE |
| 1 | 249132409 - 249143716 | T - 75.00% | TRUE | TRUE |
| 2 | 99061317 - 99207496 | | TRUE | TRUE |
| 2 | 99061317 - 99207496 | T - 60.00% | TRUE | TRUE |
| 2 | 99061317 - 99207496 | | TRUE | TRUE |
| 2 | 135894486 - 136288806 | F - 17.65% | TRUE | TRUE |
| 2 | 135894486 - 136288806 | | FALSE | TRUE |
| 3 | 71003844 - 71633140 | F - 44.12% | TRUE | TRUE |
| 3 | 71003844 - 71633140 | | FALSE | TRUE |
| 3 | 71003844 - 71633140 | | TRUE | TRUE |
| 3 | 15602211 - 15643338 | | TRUE | TRUE |
| 3 | 15602211 - 15643338 | F - 10.53% | TRUE | TRUE |
| 4 | 3076408 - 3245687 | F - 14.29% | TRUE | TRUE |
| 4 | 3076408 - 3245687 | | TRUE | TRUE |
| 4 | 30722030 - 31148423 | | TRUE | TRUE |
| 4 | 30722030 - 31148423 | T - 72.73% | TRUE | TRUE |
| 4 | 87515468 - 87736328 | | TRUE | FALSE |
| 4 | 87515468 - 87736328 | | TRUE | TRUE |
| 4 | 87515468 - 87736328 | | TRUE | FALSE |
| 4 | 87515468 - 87736328 | | TRUE | FALSE |
| 4 | 87515468 - 87736328 | T - 56.25% | TRUE | TRUE |
| 4 | 87515468 - 87736328 | T - 75.00% | TRUE | TRUE |
| 4 | 87515468 - 87736328 | | TRUE | TRUE |
| 4 | 87515468 - 87736328 | F - 43.75% | TRUE | TRUE |
| 4 | 87515468 - 87736328 | F - 31.25% | TRUE | TRUE |
| 4 | 87515468 - 87736328 | | TRUE | TRUE |
| 4 | 87515468 - 87736328 | F - 6.25% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 38.46% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 7.69% | TRUE | FALSE |
| 5 | 41730167 - 41870791 | F - 7.69% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 23.08% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 23.08% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 38.46% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 7.69% | FALSE | TRUE |
| 5 | 41730167 - 41870791 | F - 15.38% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 7.69% | TRUE | TRUE |
| 5 | 41730167 - 41870791 | | TRUE | TRUE |
| 5 | 41730167 - 41870791 | F - 7.69% | FALSE | TRUE |
| 5 | 41730167 - 41870791 | | TRUE | TRUE |
| 5 | 41730167 - 41870791 | | FALSE | TRUE |
| 7 | 76239303 - 76256620 | T - 72.73% | TRUE | TRUE |
| 7 | 76239303 - 76256620 | T - 63.64% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 7 | 76239303 - 76256620 | | TRUE | TRUE |
| 7 | 94214536 - 94285521 | F - 5.88% | FALSE | TRUE |
| 7 | 94214536 - 94285521 | | TRUE | TRUE |
| 7 | 94214536 - 94285521 | | TRUE | TRUE |
| 8 | 356428 - 421225 | | TRUE | TRUE |
| 8 | 356428 - 421225 | F - 6.25% | FALSE | TRUE |
| 8 | 356428 - 421225 | | TRUE | TRUE |
| 9 | 19288622 - 19374275 | T - 93.75% | TRUE | TRUE |
| 9 | 19288622 - 19374275 | | TRUE | TRUE |
| 9 | 19288622 - 19374275 | | FALSE | TRUE |
| 10 | 134973951 - 135039916 | F - 40.00% | TRUE | TRUE |
| 10 | 134973951 - 135039916 | | FALSE | TRUE |
| 10 | 134973951 - 135039916 | F - 40.00% | TRUE | TRUE |
| 10 | 51026325 - 51729967 | F - 36.67% | TRUE | TRUE |
| 10 | 51026325 - 51729967 | | TRUE | TRUE |
| 10 | 51026325 - 51729967 | | TRUE | TRUE |
| 10 | 51026325 - 51729967 | F - 13.33% | FALSE | TRUE |
| 10 | 51026325 - 51729967 | F - 3.33% | TRUE | TRUE |
| 10 | 51026325 - 51729967 | | FALSE | TRUE |
| 10 | 51026325 - 51729967 | | TRUE | TRUE |
| 10 | 51026325 - 51729967 | | TRUE | TRUE |
| 10 | 51026325 - 51729967 | | TRUE | TRUE |
| 11 | 34874641 - 34938046 | | TRUE | TRUE |
| 11 | 34874641 - 34938046 | | FALSE | TRUE |
| 11 | 34874641 - 34938046 | F - 25.00% | TRUE | TRUE |
| 12 | 9570287 - 9600824 | | TRUE | TRUE |
| 12 | 9570287 - 9600824 | T - 60.00% | TRUE | TRUE |
| 12 | 9570287 - 9600824 | T - 60.00% | FALSE | TRUE |
| 12 | 51580719 - 51611477 | F - 12.50% | TRUE | TRUE |
| 12 | 51580719 - 51611477 | | TRUE | TRUE |
| 12 | 133264192 - 133281577 | | TRUE | TRUE |
| 12 | 133264192 - 133281577 | T - 60.00% | TRUE | TRUE |
| 12 | 56146247 - 56211540 | | TRUE | TRUE |
| 12 | 56146247 - 56211540 | | TRUE | TRUE |
| 12 | 56146247 - 56211540 | T - 88.89% | FALSE | TRUE |
| 13 | 46039030 - 46110833 | | TRUE | FALSE |
| 13 | 46039030 - 46110833 | | TRUE | TRUE |
| 13 | 46039030 - 46110833 | | TRUE | TRUE |
| 13 | 46039030 - 46110833 | F - 10.00% | TRUE | TRUE |
| 13 | 46039030 - 46110833 | | TRUE | TRUE |
| 14 | 26915089 - 27066960 | | TRUE | TRUE |
| 14 | 26915089 - 27066960 | T - 50.00% | TRUE | TRUE |
| 14 | 26915089 - 27066960 | F - 14.29% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 40.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 20.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | FALSE | TRUE |
| 15 | 67695949 - 67814182 | | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 10.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 40.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 30.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 20.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 10.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 10.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | F - 10.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 15 | 67695949 - 67814182 | F - 40.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | FALSE | TRUE |
| 15 | 67695949 - 67814182 | F - 10.00% | TRUE | TRUE |
| 15 | 67695949 - 67814182 | | FALSE | TRUE |
| 17 | 73201597 - 73231854 | F - 12.50% | TRUE | TRUE |
| 17 | 73201597 - 73231854 | | TRUE | FALSE |
| 17 | 74466975 - 74497509 | F - 22.22% | FALSE | TRUE |
| 17 | 74466975 - 74497509 | | TRUE | TRUE |
| 17 | 74466975 - 74497509 | T - 77.78% | TRUE | TRUE |
| 17 | 74466975 - 74497509 | | FALSE | TRUE |
| 17 | 74466975 - 74497509 | T - 77.78% | TRUE | TRUE |
| 17 | 74466975 - 74497509 | T - 77.78% | TRUE | TRUE |
| 17 | 74466975 - 74497509 | | FALSE | TRUE |
| 18 | 9885723 - 9888377 | | TRUE | FALSE |
| 18 | 9885723 - 9888377 | T - 87.50% | TRUE | TRUE |
| 21 | 46825052 - 46933634 | T - 58.82% | TRUE | FALSE |
| 21 | 46825052 - 46933634 | T - 94.12% | FALSE | TRUE |
| 21 | 46825052 - 46933634 | T - 88.24% | TRUE | TRUE |
| 21 | 46825052 - 46933634 | | FALSE | TRUE |
| 21 | 46825052 - 46933634 | | FALSE | TRUE |
| 21 | 46825052 - 46933634 | | FALSE | TRUE |
| 22 | 21369316 - 21383119 | F - 17.65% | TRUE | TRUE |
| 22 | 21369316 - 21383119 | T - 94.12% | TRUE | TRUE |
| 22 | 21369316 - 21383119 | | FALSE | TRUE |
| 22 | 21369316 - 21383119 | | FALSE | TRUE |
| 22 | 21369316 - 21383119 | T - 76.47% | TRUE | TRUE |
| 22 | 50941376 - 50946135 | F - 8.33% | TRUE | FALSE |
| 22 | 50941376 - 50946135 | F - 25.00% | TRUE | TRUE |
| 22 | 50941376 - 50946135 | | FALSE | TRUE |
| 1 | 20915441 - 20945401 | | TRUE | TRUE |
| 1 | 20915441 - 20945401 | T - 100.00% | TRUE | TRUE |
| 1 | 20915441 - 20945401 | | TRUE | TRUE |
| 1 | 243419307 - 243663394 | | TRUE | TRUE |
| 1 | 243419307 - 243663394 | F - 35.00% | TRUE | TRUE |
| 1 | 201865580 - 201915716 | T - 71.43% | TRUE | TRUE |
| 1 | 201865580 - 201915716 | | TRUE | TRUE |
| 1 | 201865580 - 201915716 | T - 85.71% | TRUE | TRUE |
| 3 | 33038100 - 33138722 | | TRUE | FALSE |
| 3 | 33038100 - 33138722 | F - 3.03% | FALSE | TRUE |
| 3 | 33038100 - 33138722 | F - 3.03% | FALSE | TRUE |
| 3 | 33038100 - 33138722 | | FALSE | TRUE |
| 4 | 37828255 - 37864559 | | TRUE | FALSE |
| 4 | 37828255 - 37864559 | | TRUE | TRUE |
| 4 | 37828255 - 37864559 | F - 33.33% | TRUE | TRUE |
| 4 | 37828255 - 37864559 | | FALSE | TRUE |
| 4 | 176554085 - 176923815 | T - 71.43% | TRUE | FALSE |
| 4 | 176554085 - 176923815 | | FALSE | TRUE |
| 4 | 176554085 - 176923815 | | FALSE | TRUE |
| 4 | 82347547 - 82393082 | | TRUE | TRUE |
| 4 | 82347547 - 82393082 | T - 64.29% | TRUE | TRUE |
| 4 | 82347547 - 82393082 | T - 57.14% | TRUE | FALSE |
| 4 | 82347547 - 82393082 | F - 21.43% | TRUE | TRUE |
| 4 | 82347547 - 82393082 | F - 14.29% | TRUE | TRUE |
| 4 | 82347547 - 82393082 | | TRUE | TRUE |
| 4 | 82347547 - 82393082 | F - 7.14% | TRUE | TRUE |
| 5 | 10353815 - 10435491 | F - 5.00% | TRUE | TRUE |
| 5 | 10353815 - 10435491 | | TRUE | TRUE |
| 6 | 485133 - 693117 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 6 | 485133 - 693117 | T - 75.00% | FALSE | TRUE |
| 6 | 485133 - 693117 | | TRUE | TRUE |
| 6 | 485133 - 693117 | | TRUE | TRUE |
| 6 | 17759414 - 17987854 | F - 40.91% | TRUE | TRUE |
| 6 | 17759414 - 17987854 | T - 54.55% | TRUE | TRUE |
| 6 | 17759414 - 17987854 | | TRUE | TRUE |
| 7 | 32956427 - 32982788 | | TRUE | TRUE |
| 7 | 32956427 - 32982788 | F - 20.00% | TRUE | TRUE |
| 7 | 32956427 - 32982788 | F - 20.00% | TRUE | TRUE |
| 7 | 90193049 - 90839905 | | TRUE | TRUE |
| 7 | 90193049 - 90839905 | F - 30.43% | FALSE | TRUE |
| 7 | 90193049 - 90839905 | F - 4.35% | FALSE | TRUE |
| 7 | 90193049 - 90839905 | F - 4.35% | FALSE | TRUE |
| 7 | 90193049 - 90839905 | | FALSE | TRUE |
| 9 | 108006903 - 108201452 | | TRUE | TRUE |
| 9 | 108006903 - 108201452 | T - 75.00% | TRUE | TRUE |
| 9 | 108006903 - 108201452 | | TRUE | TRUE |
| 9 | 108006903 - 108201452 | T - 62.50% | TRUE | TRUE |
| 9 | 108006903 - 108201452 | | TRUE | TRUE |
| 9 | 111696461 - 111713024 | T - 57.14% | FALSE | TRUE |
| 9 | 111696461 - 111713024 | | FALSE | TRUE |
| 9 | 128024073 - 128129486 | | TRUE | TRUE |
| 9 | 128024073 - 128129486 | | TRUE | TRUE |
| 9 | 128024073 - 128129486 | | FALSE | TRUE |
| 9 | 128024073 - 128129486 | F - 3.13% | FALSE | TRUE |
| 9 | 128024073 - 128129486 | | FALSE | TRUE |
| 9 | 139776364 - 139823673 | | TRUE | TRUE |
| 9 | 139776364 - 139823673 | T - 80.95% | TRUE | TRUE |
| 9 | 139776364 - 139823673 | | FALSE | TRUE |
| 9 | 89834788 - 89880410 | T - 100.00% | TRUE | TRUE |
| 9 | 89834788 - 89880410 | | FALSE | TRUE |
| 9 | 89834788 - 89880410 | T - 100.00% | FALSE | TRUE |
| 13 | 45513384 - 45563618 | T - 66.67% | TRUE | TRUE |
| 13 | 45513384 - 45563618 | | FALSE | TRUE |
| 14 | 21567096 - 21571883 | T - 100.00% | TRUE | TRUE |
| 14 | 21567096 - 21571883 | | FALSE | TRUE |
| 17 | 48423393 - 48440499 | F - 25.00% | TRUE | FALSE |
| 17 | 48423393 - 48440499 | | TRUE | TRUE |
| 19 | 38826415 - 38861589 | | TRUE | TRUE |
| 19 | 38826415 - 38861589 | T - 76.19% | FALSE | TRUE |
| 19 | 38826415 - 38861589 | T - 76.19% | TRUE | TRUE |
| 19 | 38826415 - 38861589 | T - 66.67% | TRUE | TRUE |
| 19 | 38826415 - 38861589 | | FALSE | TRUE |
| 18 | 29202209 - 29264686 | | TRUE | TRUE |
| 18 | 29202209 - 29264686 | F - 37.50% | TRUE | TRUE |
| 18 | 29202209 - 29264686 | | TRUE | TRUE |
| 18 | 29202209 - 29264686 | | TRUE | TRUE |
| 1 | 33473541 - 33502593 | | TRUE | TRUE |
| 1 | 33473541 - 33502593 | F - 15.00% | TRUE | TRUE |
| 1 | 33473541 - 33502593 | | FALSE | TRUE |
| 1 | 33473541 - 33502593 | F - 30.00% | TRUE | TRUE |
| 1 | 33473541 - 33502593 | F - 10.00% | TRUE | TRUE |
| 2 | 89065324 - 89106126 | F - 33.33% | TRUE | TRUE |
| 2 | 89065324 - 89106126 | | FALSE | TRUE |
| 2 | 89065324 - 89106126 | | TRUE | TRUE |
| 2 | 89065324 - 89106126 | T - 55.56% | FALSE | TRUE |
| 2 | 80515481 - 80531874 | F - 10.00% | TRUE | TRUE |
| 2 | 80515481 - 80531874 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 3 | 9791628 - 9829903 | | TRUE | TRUE |
| | 3 | 9791628 - 9829903 | F - 12.90% | FALSE | TRUE |
| | 4 | 83273651 - 83295656 | F - 4.17% | TRUE | TRUE |
| | 4 | 83273651 - 83295656 | | TRUE | TRUE |
| | 6 | 15245734 - 15522253 | T - 77.78% | TRUE | TRUE |
| | 6 | 15245734 - 15522253 | | FALSE | TRUE |
| | 6 | 41888926 - 41900784 | F - 12.50% | TRUE | TRUE |
| | 6 | 41888926 - 41900784 | | FALSE | TRUE |
| | 8 | 102698770 - 103137135 | | TRUE | TRUE |
| | 8 | 102698770 - 103137135 | | TRUE | TRUE |
| | 8 | 102698770 - 103137135 | F - 5.00% | FALSE | TRUE |
| | 8 | 102698770 - 103137135 | | FALSE | TRUE |
| | 9 | 95858450 - 95875565 | | TRUE | TRUE |
| | 9 | 95858450 - 95875565 | F - 23.08% | TRUE | TRUE |
| | 9 | 39415985 - 39508888 | | FALSE | TRUE |
| | 9 | 39415985 - 39508888 | F - 33.33% | TRUE | TRUE |
| X | | 148609130 - 148622504 | | TRUE | TRUE |
| X | | 148609130 - 148622504 | F - 23.08% | TRUE | TRUE |
| X | | 148609130 - 148622504 | F - 15.38% | TRUE | TRUE |
| X | | 148609130 - 148622504 | F - 7.69% | TRUE | TRUE |
| X | | 148609130 - 148622504 | F - 15.38% | TRUE | TRUE |
| | 10 | 104263719 - 104393292 | F - 13.33% | TRUE | TRUE |
| | 10 | 104263719 - 104393292 | | FALSE | TRUE |
| | 11 | 3022152 - 3078843 | F - 8.33% | TRUE | TRUE |
| | 11 | 3022152 - 3078843 | | FALSE | TRUE |
| | 11 | 3022152 - 3078843 | | FALSE | TRUE |
| | 11 | 3022152 - 3078843 | F - 4.17% | FALSE | TRUE |
| | 12 | 10741077 - 10752434 | F - 44.44% | TRUE | FALSE |
| | 12 | 10741077 - 10752434 | | TRUE | TRUE |
| | 12 | 10741077 - 10752434 | | FALSE | TRUE |
| | 12 | 10741077 - 10752434 | F - 44.44% | TRUE | TRUE |
| | 12 | 10741077 - 10752434 | | TRUE | TRUE |
| | 12 | 77415026 - 77459360 | T - 66.67% | TRUE | TRUE |
| | 12 | 77415026 - 77459360 | T - 66.67% | FALSE | TRUE |
| | 12 | 77415026 - 77459360 | | TRUE | TRUE |
| | 12 | 77415026 - 77459360 | | FALSE | TRUE |
| | 14 | 77893018 - 77923983 | T - 50.00% | TRUE | TRUE |
| | 14 | 77893018 - 77923983 | | FALSE | TRUE |
| | 14 | 77893018 - 77923983 | | TRUE | TRUE |
| | 15 | 78832747 - 78841604 | | TRUE | FALSE |
| | 15 | 78832747 - 78841604 | | TRUE | TRUE |
| | 15 | 78832747 - 78841604 | T - 84.21% | FALSE | TRUE |
| | 17 | 19912614 - 20222339 | | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | F - 4.76% | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | F - 14.29% | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | F - 38.10% | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | | FALSE | TRUE |
| | 17 | 19912614 - 20222339 | F - 47.62% | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | F - 9.52% | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | | FALSE | TRUE |
| | 17 | 19912614 - 20222339 | F - 23.81% | FALSE | TRUE |
| | 17 | 19912614 - 20222339 | F - 4.76% | TRUE | TRUE |
| | 17 | 19912614 - 20222339 | | FALSE | TRUE |
| | 18 | 109065 - 122222 | | TRUE | TRUE |
| | 18 | 109065 - 122222 | T - 100.00% | TRUE | TRUE |
| | 19 | 4153629 - 4173050 | T - 80.00% | TRUE | FALSE |
| | 19 | 4153629 - 4173050 | | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|-------------|-------|-------|
| | 20 | 3451665 - 3631769 | T - 57.14% | TRUE | TRUE |
| | 20 | 3451665 - 3631769 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3423638 - 3452865 | T - 50.00% | TRUE | FALSE |
| 6_qbl_hap6 | | 3423638 - 3452865 | | TRUE | TRUE |
| 6_qbl_hap6 | | 3423638 - 3452865 | | FALSE | TRUE |
| | 7 | 128312342 - 128326929 | | TRUE | TRUE |
| | 7 | 128312342 - 128326929 | F - 8.33% | TRUE | TRUE |
| | 7 | 128312342 - 128326929 | | FALSE | TRUE |
| | 1 | 143647638 - 143745417 | | TRUE | TRUE |
| | 1 | 143647638 - 143745417 | F - 18.18% | TRUE | TRUE |
| | 1 | 143647638 - 143745417 | | FALSE | TRUE |
| | 1 | 150521040 - 150530949 | T - 100.00% | TRUE | FALSE |
| | 1 | 150521040 - 150530949 | | TRUE | TRUE |
| | 2 | 47129009 - 47168994 | | FALSE | TRUE |
| | 2 | 47129009 - 47168994 | T - 64.00% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 7.32% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 26.83% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 4.88% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 4.88% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 2.44% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 34.15% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 41.46% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 19.51% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 17.07% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 2.44% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | F - 46.34% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 9.76% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 46.34% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 26.83% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 12.20% | TRUE | TRUE |
| | 3 | 158680024 - 159615155 | | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 2.44% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 2.44% | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | | FALSE | TRUE |
| | 3 | 158680024 - 159615155 | F - 17.07% | FALSE | TRUE |
| | 4 | 128886435 - 128960866 | F - 20.00% | TRUE | TRUE |
| | 4 | 128886435 - 128960866 | | FALSE | TRUE |
| | 4 | 68481479 - 68566897 | | TRUE | TRUE |
| | 4 | 68481479 - 68566897 | T - 75.00% | FALSE | TRUE |
| | 5 | 38258511 - 38465582 | | TRUE | TRUE |
| | 5 | 38258511 - 38465582 | F - 5.26% | FALSE | TRUE |
| | 5 | 38258511 - 38465582 | | TRUE | TRUE |
| | 5 | 38258511 - 38465582 | | FALSE | TRUE |
| | 5 | 38258511 - 38465582 | | FALSE | TRUE |
| | 5 | 68665120 - 68710630 | F - 17.24% | TRUE | TRUE |
| | 5 | 68665120 - 68710630 | | TRUE | TRUE |
| | 5 | 79950294 - 80172634 | | TRUE | FALSE |
| | 5 | 79950294 - 80172634 | F - 16.67% | FALSE | TRUE |
| | 6 | 33359313 - 33377701 | | TRUE | TRUE |
| | 6 | 33359313 - 33377701 | T - 71.43% | FALSE | TRUE |
| | 6 | 33359313 - 33377701 | | FALSE | TRUE |
| | 6 | 33359313 - 33377701 | | FALSE | TRUE |
| | 6 | 107811162 - 107982513 | | TRUE | TRUE |
| | 6 | 107811162 - 107982513 | F - 16.67% | FALSE | TRUE |
| | 6 | 107811162 - 107982513 | | FALSE | TRUE |

| | | | | | |
|-------------|----|-----------------------|-------------|-------|-------|
| | 6 | 30667584 - 30685666 | T - 52.63% | TRUE | TRUE |
| | 6 | 30667584 - 30685666 | | TRUE | TRUE |
| | 6 | 30667584 - 30685666 | | FALSE | TRUE |
| | 7 | 128864855 - 129070052 | F - 10.00% | TRUE | TRUE |
| | 7 | 128864855 - 129070052 | | TRUE | TRUE |
| | 8 | 117962512 - 118188953 | F - 23.08% | TRUE | TRUE |
| | 8 | 117962512 - 118188953 | | FALSE | TRUE |
| | 9 | 96338689 - 96441869 | T - 66.67% | TRUE | TRUE |
| | 9 | 96338689 - 96441869 | | FALSE | TRUE |
| X | | 102024089 - 102140338 | | TRUE | FALSE |
| X | | 102024089 - 102140338 | | TRUE | TRUE |
| X | | 102024089 - 102140338 | | TRUE | TRUE |
| X | | 102024089 - 102140338 | F - 33.33% | FALSE | TRUE |
| X | | 102024089 - 102140338 | | FALSE | TRUE |
| X | | 102024089 - 102140338 | | FALSE | TRUE |
| | 10 | 38645308 - 38667433 | T - 100.00% | TRUE | TRUE |
| | 10 | 38645308 - 38667433 | | FALSE | TRUE |
| | 11 | 66384053 - 66435858 | F - 30.43% | TRUE | TRUE |
| | 11 | 66384053 - 66435858 | F - 34.78% | TRUE | TRUE |
| | 11 | 66384053 - 66435858 | | TRUE | TRUE |
| | 11 | 66384053 - 66435858 | F - 19.57% | TRUE | TRUE |
| | 11 | 66384053 - 66435858 | | FALSE | TRUE |
| | 11 | 66384053 - 66435858 | | TRUE | TRUE |
| | 11 | 66384053 - 66435858 | F - 4.35% | FALSE | TRUE |
| | 14 | 75230069 - 75322378 | F - 18.18% | TRUE | TRUE |
| | 14 | 75230069 - 75322378 | | TRUE | TRUE |
| | 14 | 75230069 - 75322378 | | TRUE | TRUE |
| | 14 | 75230069 - 75322378 | | TRUE | TRUE |
| | 14 | 75230069 - 75322378 | | FALSE | TRUE |
| | 14 | 75230069 - 75322378 | | FALSE | TRUE |
| | 15 | 29991571 - 30248497 | | TRUE | TRUE |
| | 15 | 29991571 - 30248497 | T - 58.82% | FALSE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | T - 52.94% | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | FALSE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | TRUE | TRUE |
| | 15 | 52599480 - 52821247 | | FALSE | TRUE |
| | 17 | 30771502 - 30809398 | F - 11.11% | TRUE | FALSE |
| | 17 | 30771502 - 30809398 | | TRUE | TRUE |
| | 21 | 43731777 - 43735761 | F - 20.00% | TRUE | TRUE |
| | 21 | 43731777 - 43735761 | | FALSE | TRUE |
| | 22 | 26839389 - 26879820 | F - 26.67% | TRUE | TRUE |
| | 22 | 26839389 - 26879820 | | TRUE | FALSE |
| | 22 | 26839389 - 26879820 | F - 30.00% | FALSE | TRUE |
| | 22 | 26839389 - 26879820 | | FALSE | TRUE |
| 6_qbl_hap6 | | 4499711 - 4514410 | F - 41.18% | TRUE | TRUE |
| 6_qbl_hap6 | | 4499711 - 4514410 | | TRUE | TRUE |
| 6_ssto_hap7 | | 4839529 - 4857920 | | TRUE | TRUE |
| 6_ssto_hap7 | | 4839529 - 4857920 | T - 71.43% | FALSE | TRUE |
| 6_ssto_hap7 | | 4839529 - 4857920 | | FALSE | TRUE |
| 6_ssto_hap7 | | 4839529 - 4857920 | | FALSE | TRUE |
| | 1 | 10532345 - 10690815 | F - 7.14% | TRUE | TRUE |
| | 1 | 10532345 - 10690815 | | TRUE | TRUE |
| | 1 | 10532345 - 10690815 | | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 92974253 - 93257961 | F - 15.38% | TRUE | TRUE |
| 1 | 92974253 - 93257961 | | TRUE | TRUE |
| 1 | 92974253 - 93257961 | | TRUE | TRUE |
| 1 | 159887897 - 159895522 | F - 11.11% | TRUE | TRUE |
| 1 | 159887897 - 159895522 | | TRUE | TRUE |
| 1 | 159887897 - 159895522 | | TRUE | TRUE |
| 1 | 224415036 - 224518089 | | TRUE | TRUE |
| 1 | 224415036 - 224518089 | F - 40.63% | TRUE | TRUE |
| 1 | 224415036 - 224518089 | | FALSE | TRUE |
| 2 | 148778580 - 149275805 | | TRUE | TRUE |
| 2 | 148778580 - 149275805 | | FALSE | TRUE |
| 2 | 148778580 - 149275805 | F - 5.88% | TRUE | TRUE |
| 2 | 148778580 - 149275805 | | TRUE | TRUE |
| 2 | 148778580 - 149275805 | | TRUE | TRUE |
| 2 | 148778580 - 149275805 | | FALSE | TRUE |
| 2 | 148778580 - 149275805 | | TRUE | TRUE |
| 2 | 148778580 - 149275805 | | TRUE | TRUE |
| 2 | 220492049 - 220506702 | T - 55.56% | TRUE | TRUE |
| 2 | 220492049 - 220506702 | | TRUE | TRUE |
| 2 | 220492049 - 220506702 | | FALSE | TRUE |
| 2 | 42560686 - 42596150 | | TRUE | FALSE |
| 2 | 42560686 - 42596150 | F - 8.33% | TRUE | TRUE |
| 2 | 42560686 - 42596150 | | TRUE | TRUE |
| 2 | 96850597 - 96874573 | F - 18.75% | TRUE | TRUE |
| 2 | 96850597 - 96874573 | | TRUE | TRUE |
| 3 | 157261035 - 157395538 | | TRUE | FALSE |
| 3 | 157261035 - 157395538 | F - 23.08% | TRUE | TRUE |
| 3 | 157261035 - 157395538 | F - 7.69% | TRUE | FALSE |
| 3 | 157261035 - 157395538 | F - 7.69% | TRUE | TRUE |
| 3 | 157261035 - 157395538 | F - 46.15% | TRUE | TRUE |
| 3 | 157261035 - 157395538 | F - 30.77% | FALSE | TRUE |
| 3 | 48663156 - 48672926 | | TRUE | TRUE |
| 3 | 48663156 - 48672926 | T - 51.61% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | T - 51.61% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | F - 12.90% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | F - 3.23% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | F - 9.68% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | T - 74.19% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | F - 3.23% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | F - 25.81% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | | FALSE | TRUE |
| 3 | 48663156 - 48672926 | F - 3.23% | TRUE | TRUE |
| 3 | 48663156 - 48672926 | F - 6.45% | TRUE | TRUE |
| 4 | 130014472 - 130034487 | | TRUE | FALSE |
| 4 | 130014472 - 130034487 | F - 10.00% | TRUE | TRUE |
| 4 | 130014472 - 130034487 | F - 10.00% | FALSE | TRUE |
| 4 | 130014472 - 130034487 | F - 10.00% | FALSE | TRUE |
| 4 | 139949266 - 140098372 | | TRUE | TRUE |
| 4 | 139949266 - 140098372 | | TRUE | TRUE |
| 4 | 139949266 - 140098372 | F - 39.13% | TRUE | TRUE |
| 4 | 139949266 - 140098372 | F - 4.35% | TRUE | TRUE |
| 5 | 149599054 - 149669854 | | TRUE | TRUE |
| 5 | 149599054 - 149669854 | T - 66.67% | TRUE | TRUE |
| 9 | 135037334 - 135119921 | | TRUE | TRUE |
| 9 | 135037334 - 135119921 | F - 33.33% | FALSE | TRUE |
| 9 | 130683158 - 130693076 | | TRUE | FALSE |
| 9 | 130683158 - 130693076 | F - 7.69% | TRUE | TRUE |
| 9 | 130683158 - 130693076 | | TRUE | TRUE |

| | | | | | |
|-------------|----|-----------------------|------------|-------|-------|
| | 9 | 130683158 - 130693076 | | FALSE | TRUE |
| | 9 | 130683158 - 130693076 | F - 23.08% | FALSE | TRUE |
| X | | 46771711 - 46920641 | | TRUE | TRUE |
| X | | 46771711 - 46920641 | T - 71.43% | FALSE | TRUE |
| X | | 46771711 - 46920641 | | FALSE | TRUE |
| | 11 | 93463438 - 93475111 | F - 5.26% | TRUE | TRUE |
| | 11 | 93463438 - 93475111 | F - 5.26% | TRUE | TRUE |
| | 11 | 93463438 - 93475111 | | FALSE | TRUE |
| | 14 | 94577079 - 94583033 | F - 18.18% | TRUE | TRUE |
| | 14 | 94577079 - 94583033 | | FALSE | TRUE |
| | 16 | 56677599 - 56679152 | | TRUE | TRUE |
| | 16 | 56677599 - 56679152 | T - 66.67% | TRUE | TRUE |
| | 16 | 56677599 - 56679152 | F - 33.33% | FALSE | TRUE |
| | 17 | 43971748 - 44105703 | | TRUE | TRUE |
| | 17 | 43971748 - 44105703 | T - 90.48% | TRUE | TRUE |
| | 17 | 906758 - 1090616 | F - 14.29% | TRUE | TRUE |
| | 17 | 906758 - 1090616 | | TRUE | TRUE |
| | 17 | 18414576 - 18432126 | F - 33.33% | TRUE | TRUE |
| | 17 | 18414576 - 18432126 | | FALSE | TRUE |
| | 17 | 18414576 - 18432126 | | FALSE | TRUE |
| | 18 | 52889562 - 53303188 | | TRUE | TRUE |
| | 18 | 52889562 - 53303188 | F - 3.13% | TRUE | TRUE |
| | 18 | 52889562 - 53303188 | | TRUE | TRUE |
| | 18 | 52889562 - 53303188 | | FALSE | TRUE |
| | 18 | 52889562 - 53303188 | | FALSE | TRUE |
| 6_mann_hap4 | | 1149678 - 1153133 | | TRUE | TRUE |
| 6_mann_hap4 | | 1149678 - 1153133 | T - 50.00% | TRUE | TRUE |
| | 2 | 61404553 - 61415611 | F - 20.00% | TRUE | FALSE |
| | 2 | 61404553 - 61415611 | | FALSE | TRUE |
| | 2 | 61404553 - 61415611 | | FALSE | TRUE |
| | 2 | 183580999 - 183653542 | | TRUE | FALSE |
| | 2 | 183580999 - 183653542 | | TRUE | TRUE |
| | 2 | 183580999 - 183653542 | F - 6.25% | TRUE | TRUE |
| | 2 | 183580999 - 183653542 | | TRUE | TRUE |
| | 2 | 242254515 - 242293442 | | TRUE | TRUE |
| | 2 | 242254515 - 242293442 | F - 3.57% | TRUE | TRUE |
| | 2 | 242254515 - 242293442 | | TRUE | TRUE |
| | 2 | 183698002 - 183731890 | T - 66.67% | TRUE | TRUE |
| | 2 | 183698002 - 183731890 | | FALSE | TRUE |
| | 2 | 39146504 - 39202590 | F - 33.33% | TRUE | FALSE |
| | 2 | 39146504 - 39202590 | | FALSE | TRUE |
| | 3 | 38537618 - 38583652 | | TRUE | FALSE |
| | 3 | 38537618 - 38583652 | F - 32.14% | TRUE | TRUE |
| | 3 | 38537618 - 38583652 | F - 3.57% | TRUE | TRUE |
| | 3 | 38537618 - 38583652 | F - 35.71% | TRUE | TRUE |
| | 3 | 158449987 - 158547508 | | TRUE | FALSE |
| | 3 | 158449987 - 158547508 | F - 3.23% | FALSE | TRUE |
| | 3 | 158449987 - 158547508 | F - 3.23% | TRUE | TRUE |
| | 3 | 158449987 - 158547508 | F - 48.39% | TRUE | TRUE |
| | 3 | 158449987 - 158547508 | | TRUE | TRUE |
| | 3 | 158449987 - 158547508 | F - 6.45% | FALSE | TRUE |
| | 3 | 158449987 - 158547508 | | FALSE | TRUE |
| | 3 | 158449987 - 158547508 | | TRUE | TRUE |
| | 5 | 102455853 - 102538937 | F - 17.39% | TRUE | TRUE |
| | 5 | 102455853 - 102538937 | | TRUE | TRUE |
| | 5 | 102455853 - 102538937 | | TRUE | TRUE |
| | 5 | 102455853 - 102538937 | | TRUE | TRUE |
| | 5 | 102455853 - 102538937 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 5 | 169780469 - 170163636 | | TRUE | TRUE |
| 5 | 169780469 - 170163636 | F - 20.00% | TRUE | TRUE |
| 5 | 169780469 - 170163636 | F - 6.67% | TRUE | TRUE |
| 5 | 169780469 - 170163636 | F - 40.00% | TRUE | TRUE |
| 5 | 169780469 - 170163636 | F - 6.67% | TRUE | TRUE |
| 5 | 169780469 - 170163636 | | TRUE | TRUE |
| 5 | 169780469 - 170163636 | F - 13.33% | FALSE | TRUE |
| 5 | 169780469 - 170163636 | F - 13.33% | TRUE | TRUE |
| 5 | 169780469 - 170163636 | F - 6.67% | FALSE | TRUE |
| 5 | 169780469 - 170163636 | | FALSE | TRUE |
| 6 | 41604620 - 41621984 | | TRUE | FALSE |
| 6 | 41604620 - 41621984 | F - 7.69% | TRUE | TRUE |
| 6 | 41604620 - 41621984 | F - 46.15% | TRUE | TRUE |
| 6 | 41604620 - 41621984 | | TRUE | TRUE |
| 6 | 136578001 - 136610989 | | TRUE | TRUE |
| 6 | 136578001 - 136610989 | F - 6.25% | TRUE | TRUE |
| 6 | 136578001 - 136610989 | F - 6.25% | FALSE | TRUE |
| 6 | 136578001 - 136610989 | | TRUE | TRUE |
| 6 | 136578001 - 136610989 | | TRUE | TRUE |
| 10 | 24872538 - 25012597 | | TRUE | FALSE |
| 10 | 24872538 - 25012597 | F - 7.69% | FALSE | TRUE |
| 11 | 64358113 - 64369820 | T - 70.00% | TRUE | TRUE |
| 11 | 64358113 - 64369820 | | FALSE | TRUE |
| 11 | 74041361 - 74109518 | | TRUE | TRUE |
| 11 | 74041361 - 74109518 | T - 100.00% | TRUE | TRUE |
| 11 | 133785185 - 133826880 | F - 20.00% | TRUE | TRUE |
| 11 | 133785185 - 133826880 | T - 60.00% | TRUE | TRUE |
| 11 | 133785185 - 133826880 | | FALSE | TRUE |
| 11 | 133785185 - 133826880 | | FALSE | TRUE |
| 11 | 133785185 - 133826880 | T - 60.00% | TRUE | TRUE |
| 11 | 44117099 - 44266980 | F - 30.00% | TRUE | TRUE |
| 11 | 44117099 - 44266980 | | TRUE | TRUE |
| 12 | 50523581 - 50561205 | F - 10.00% | TRUE | TRUE |
| 12 | 50523581 - 50561205 | F - 20.00% | FALSE | TRUE |
| 12 | 50523581 - 50561205 | | TRUE | TRUE |
| 12 | 50523581 - 50561205 | | FALSE | TRUE |
| 12 | 50523581 - 50561205 | F - 10.00% | TRUE | TRUE |
| 17 | 78518619 - 78940173 | | TRUE | TRUE |
| 17 | 78518619 - 78940173 | F - 14.29% | TRUE | TRUE |
| 19 | 33571786 - 33621318 | T - 100.00% | TRUE | TRUE |
| 19 | 33571786 - 33621318 | | TRUE | TRUE |
| 19 | 34971874 - 34992085 | | TRUE | TRUE |
| 19 | 34971874 - 34992085 | T - 100.00% | TRUE | TRUE |
| 2 | 192542794 - 192553251 | F - 16.67% | TRUE | TRUE |
| 2 | 192542794 - 192553251 | F - 5.56% | TRUE | TRUE |
| 2 | 192542794 - 192553251 | T - 66.67% | TRUE | TRUE |
| 2 | 192542794 - 192553251 | | TRUE | TRUE |
| 20 | 34291531 - 34330258 | | TRUE | TRUE |
| 20 | 34291531 - 34330258 | F - 3.57% | TRUE | TRUE |
| 20 | 34291531 - 34330258 | F - 1.79% | TRUE | TRUE |
| 20 | 34291531 - 34330258 | F - 8.93% | TRUE | TRUE |
| 16 | 81040103 - 81066719 | | TRUE | TRUE |
| 16 | 81040103 - 81066719 | T - 75.00% | TRUE | TRUE |
| 7 | 27147396 - 27173961 | F - 18.75% | TRUE | TRUE |
| 7 | 27147396 - 27173961 | F - 18.75% | TRUE | TRUE |
| 7 | 27147396 - 27173961 | | FALSE | TRUE |
| 7 | 27147396 - 27173961 | F - 12.50% | TRUE | TRUE |
| 7 | 27147396 - 27173961 | F - 12.50% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 27147396 - 27173961 | | TRUE | TRUE |
| 7 | 27147396 - 27173961 | F - 6.25% | TRUE | TRUE |
| 7 | 27147396 - 27173961 | F - 12.50% | FALSE | TRUE |
| 7 | 27147396 - 27173961 | F - 18.75% | TRUE | TRUE |
| 7 | 27147396 - 27173961 | F - 6.25% | TRUE | TRUE |
| 13 | 33160564 - 33352158 | F - 18.75% | TRUE | TRUE |
| 13 | 33160564 - 33352158 | F - 25.00% | TRUE | TRUE |
| 13 | 33160564 - 33352158 | | TRUE | TRUE |
| 17 | 72946837 - 72968900 | | TRUE | TRUE |
| 17 | 72946837 - 72968900 | T - 81.82% | TRUE | TRUE |
| 17 | 72946837 - 72968900 | | FALSE | TRUE |
| 17 | 72946837 - 72968900 | | TRUE | TRUE |
| 17 | 72946837 - 72968900 | | FALSE | TRUE |
| 17 | 72946837 - 72968900 | | FALSE | TRUE |
| 7 | 133812052 - 133949343 | | TRUE | FALSE |
| 7 | 133812052 - 133949343 | T - 80.00% | TRUE | TRUE |
| 7 | 133812052 - 133949343 | | FALSE | TRUE |
| 16 | 4932508 - 4987136 | | TRUE | TRUE |
| 16 | 4932508 - 4987136 | T - 50.00% | TRUE | TRUE |
| 16 | 4932508 - 4987136 | | FALSE | TRUE |
| 11 | 17809595 - 18034709 | | TRUE | TRUE |
| 11 | 17809595 - 18034709 | F - 22.22% | TRUE | TRUE |
| 10 | 54074041 - 54077802 | | TRUE | TRUE |
| 10 | 54074041 - 54077802 | | TRUE | TRUE |
| 10 | 54074041 - 54077802 | T - 66.67% | TRUE | TRUE |
| 10 | 54074041 - 54077802 | F - 33.33% | TRUE | TRUE |
| 10 | 54074041 - 54077802 | F - 16.67% | TRUE | FALSE |
| 10 | 54074041 - 54077802 | F - 16.67% | TRUE | TRUE |
| 10 | 54074041 - 54077802 | | FALSE | TRUE |
| 10 | 54074041 - 54077802 | F - 16.67% | TRUE | TRUE |
| 7 | 132937823 - 133751342 | | TRUE | TRUE |
| 7 | 132937823 - 133751342 | | TRUE | TRUE |
| 7 | 132937823 - 133751342 | F - 37.14% | TRUE | TRUE |
| 10 | 32556679 - 32667726 | F - 46.67% | TRUE | TRUE |
| 10 | 32556679 - 32667726 | | TRUE | FALSE |
| 10 | 32556679 - 32667726 | | TRUE | TRUE |
| 10 | 32556679 - 32667726 | | TRUE | TRUE |
| 10 | 32556679 - 32667726 | F - 40.00% | TRUE | TRUE |
| 8 | 17154306 - 17271040 | F - 40.00% | TRUE | FALSE |
| 8 | 17154306 - 17271040 | F - 20.00% | FALSE | TRUE |
| 8 | 17154306 - 17271040 | | TRUE | TRUE |
| 16 | 28699879 - 28747053 | | TRUE | TRUE |
| 16 | 28699879 - 28747053 | T - 68.42% | TRUE | TRUE |
| 2 | 96068448 - 96082364 | | TRUE | TRUE |
| 2 | 96068448 - 96082364 | F - 36.36% | TRUE | TRUE |
| 3 | 40807698 - 40904117 | | TRUE | FALSE |
| 3 | 40807698 - 40904117 | T - 100.00% | TRUE | TRUE |
| 4 | 57843888 - 57897334 | F - 18.75% | TRUE | TRUE |
| 4 | 57843888 - 57897334 | | TRUE | TRUE |
| 9 | 88556057 - 88637217 | F - 14.29% | TRUE | TRUE |
| 9 | 88556057 - 88637217 | | TRUE | TRUE |
| 9 | 88556057 - 88637217 | | TRUE | TRUE |
| 10 | 124612013 - 124658230 | F - 33.33% | TRUE | TRUE |
| 10 | 124612013 - 124658230 | | FALSE | TRUE |
| 10 | 124612013 - 124658230 | | FALSE | TRUE |
| 12 | 49046995 - 49076035 | T - 81.82% | TRUE | TRUE |
| 12 | 49046995 - 49076035 | | FALSE | TRUE |
| 19 | 11071598 - 11172958 | F - 29.17% | TRUE | TRUE |

| | | | | | |
|------------|----|-----------------------|------------|-------|------|
| | 19 | 11071598 - 11172958 | | FALSE | TRUE |
| 6_cox_hap2 | | 4711285 - 4725976 | F - 41.18% | TRUE | TRUE |
| 6_cox_hap2 | | 4711285 - 4725976 | | TRUE | TRUE |
| 6_dbb_hap3 | | 4548797 - 4563487 | F - 41.18% | TRUE | TRUE |
| 6_dbb_hap3 | | 4548797 - 4563487 | | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | F - 30.43% | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | F - 43.48% | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | F - 43.48% | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | | FALSE | TRUE |
| | 1 | 33789224 - 33896653 | F - 47.83% | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | F - 4.35% | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | F - 4.35% | TRUE | TRUE |
| | 1 | 33789224 - 33896653 | | FALSE | TRUE |
| | 2 | 99613724 - 99771427 | T - 51.85% | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | T - 55.56% | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | F - 48.15% | FALSE | TRUE |
| | 2 | 99613724 - 99771427 | T - 62.96% | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | F - 33.33% | FALSE | TRUE |
| | 2 | 99613724 - 99771427 | T - 51.85% | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | F - 3.70% | TRUE | TRUE |
| | 2 | 99613724 - 99771427 | F - 11.11% | TRUE | TRUE |
| | 3 | 37493606 - 37865005 | F - 16.67% | TRUE | TRUE |
| | 3 | 37493606 - 37865005 | | TRUE | TRUE |
| | 3 | 37493606 - 37865005 | T - 66.67% | TRUE | TRUE |
| | 3 | 37493606 - 37865005 | F - 33.33% | FALSE | TRUE |
| | 3 | 37493606 - 37865005 | T - 66.67% | TRUE | TRUE |
| | 3 | 37493606 - 37865005 | | TRUE | TRUE |
| | 8 | 11973284 - 12008698 | T - 66.67% | TRUE | TRUE |
| | 8 | 11973284 - 12008698 | F - 33.33% | FALSE | TRUE |
| | 8 | 11973284 - 12008698 | F - 33.33% | TRUE | TRUE |
| | 8 | 11973284 - 12008698 | F - 33.33% | TRUE | TRUE |
| | 8 | 11973284 - 12008698 | | TRUE | TRUE |
| | 8 | 11973284 - 12008698 | F - 33.33% | TRUE | TRUE |
| | 8 | 11973284 - 12008698 | | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 23.08% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 3.85% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 3.85% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | T - 50.00% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 3.85% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 11.54% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 26.92% | FALSE | TRUE |
| | 7 | 151253201 - 151574316 | | FALSE | TRUE |
| | 7 | 151253201 - 151574316 | F - 38.46% | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 7.69% | FALSE | TRUE |
| | 7 | 151253201 - 151574316 | F - 42.31% | FALSE | TRUE |
| | 7 | 151253201 - 151574316 | | TRUE | TRUE |
| | 7 | 151253201 - 151574316 | F - 23.08% | FALSE | TRUE |
| X | | 18910416 - 19002716 | | TRUE | TRUE |
| X | | 18910416 - 19002716 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| X | 18910416 - 19002716 | | TRUE | TRUE |
| X | 18910416 - 19002716 | | TRUE | TRUE |
| X | 18910416 - 19002716 | F - 33.33% | TRUE | TRUE |
| X | 18910416 - 19002716 | F - 46.67% | TRUE | TRUE |
| 11 | 107661717 - 107799019 | | TRUE | TRUE |
| 11 | 107661717 - 107799019 | F - 22.22% | TRUE | TRUE |
| 11 | 107661717 - 107799019 | F - 11.11% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 5.56% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 5.56% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 5.56% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 16.67% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 16.67% | FALSE | TRUE |
| 14 | 58732083 - 58764855 | F - 11.11% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 5.56% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | | FALSE | TRUE |
| 14 | 58732083 - 58764855 | | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 16.67% | FALSE | TRUE |
| 14 | 58732083 - 58764855 | F - 5.56% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 11.11% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | F - 11.11% | TRUE | TRUE |
| 14 | 58732083 - 58764855 | | FALSE | TRUE |
| 14 | 58732083 - 58764855 | F - 5.56% | TRUE | TRUE |
| 16 | 29454226 - 29466285 | F - 28.57% | TRUE | TRUE |
| 16 | 29454226 - 29466285 | F - 14.29% | TRUE | TRUE |
| 16 | 29454226 - 29466285 | | TRUE | TRUE |
| 22 | 50609160 - 50618724 | T - 50.00% | TRUE | TRUE |
| 22 | 50609160 - 50618724 | | TRUE | TRUE |
| 22 | 50609160 - 50618724 | | FALSE | TRUE |
| 22 | 50609160 - 50618724 | T - 100.00% | TRUE | TRUE |
| 22 | 50609160 - 50618724 | | TRUE | TRUE |
| 1 | 53392901 - 53517375 | | TRUE | TRUE |
| 1 | 53392901 - 53517375 | | TRUE | TRUE |
| 1 | 53392901 - 53517375 | F - 44.44% | TRUE | TRUE |
| 1 | 53392901 - 53517375 | | TRUE | TRUE |
| 1 | 53392901 - 53517375 | T - 55.56% | TRUE | TRUE |
| 1 | 53392901 - 53517375 | T - 59.26% | TRUE | TRUE |
| 1 | 53392901 - 53517375 | | FALSE | TRUE |
| 1 | 207207761 - 207254369 | F - 5.56% | FALSE | TRUE |
| 1 | 207207761 - 207254369 | F - 33.33% | TRUE | TRUE |
| 1 | 207207761 - 207254369 | F - 16.67% | TRUE | TRUE |
| 1 | 207207761 - 207254369 | | TRUE | TRUE |
| 1 | 207207761 - 207254369 | F - 5.56% | FALSE | TRUE |
| 1 | 207207761 - 207254369 | | TRUE | TRUE |
| 1 | 207207761 - 207254369 | | FALSE | TRUE |
| 1 | 207207761 - 207254369 | | TRUE | TRUE |
| 3 | 31699382 - 32119072 | | TRUE | TRUE |
| 3 | 31699382 - 32119072 | F - 4.55% | TRUE | TRUE |
| 3 | 31699382 - 32119072 | F - 4.55% | FALSE | TRUE |
| 3 | 31699382 - 32119072 | | TRUE | TRUE |
| 3 | 31699382 - 32119072 | | FALSE | TRUE |
| 3 | 31699382 - 32119072 | | FALSE | TRUE |
| 7 | 142552792 - 142568847 | | FALSE | TRUE |
| 7 | 142552792 - 142568847 | F - 44.44% | FALSE | TRUE |
| X | 36383741 - 36458375 | | FALSE | TRUE |
| X | 36383741 - 36458375 | T - 100.00% | TRUE | TRUE |
| 11 | 46402306 - 46405375 | F - 10.00% | TRUE | TRUE |
| 11 | 46402306 - 46405375 | F - 5.00% | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|------|
| 11 | 46402306 - 46405375 | | FALSE | TRUE |
| 4 | 3294755 - 3441640 | | TRUE | TRUE |
| 4 | 3294755 - 3441640 | F - 25.58% | TRUE | TRUE |
| 4 | 3294755 - 3441640 | | TRUE | TRUE |
| 4 | 3294755 - 3441640 | | TRUE | TRUE |
| 4 | 3294755 - 3441640 | | FALSE | TRUE |
| 4 | 3294755 - 3441640 | | FALSE | TRUE |
| 12 | 22346325 - 22589975 | T - 55.56% | TRUE | TRUE |
| 12 | 22346325 - 22589975 | F - 33.33% | TRUE | TRUE |
| 12 | 22346325 - 22589975 | F - 11.11% | FALSE | TRUE |
| 12 | 22346325 - 22589975 | | TRUE | TRUE |
| 12 | 22346325 - 22589975 | T - 55.56% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 4.55% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 4.55% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 18.18% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 22.73% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 4.55% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | | TRUE | TRUE |
| 5 | 148521046 - 148640105 | | TRUE | TRUE |
| 5 | 148521046 - 148640105 | | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 36.36% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 36.36% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 4.55% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 4.55% | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 18.18% | FALSE | TRUE |
| 5 | 148521046 - 148640105 | | TRUE | TRUE |
| 5 | 148521046 - 148640105 | F - 4.55% | TRUE | TRUE |
| 22 | 30681106 - 30723035 | F - 2.13% | FALSE | TRUE |
| 22 | 30681106 - 30723035 | F - 19.15% | FALSE | TRUE |
| 22 | 30681106 - 30723035 | | TRUE | TRUE |
| 22 | 30681106 - 30723035 | | FALSE | TRUE |
| 22 | 30681106 - 30723035 | | TRUE | TRUE |
| 1 | 156564100 - 156571302 | F - 12.50% | FALSE | TRUE |
| 1 | 156564100 - 156571302 | F - 31.25% | TRUE | TRUE |
| 1 | 156564100 - 156571302 | F - 18.75% | FALSE | TRUE |
| 1 | 156564100 - 156571302 | F - 6.25% | TRUE | TRUE |
| 1 | 156564100 - 156571302 | | FALSE | TRUE |
| 11 | 12115543 - 12285332 | | FALSE | TRUE |
| 11 | 12115543 - 12285332 | T - 61.11% | TRUE | TRUE |
| 11 | 12115543 - 12285332 | F - 16.67% | TRUE | TRUE |
| 11 | 12115543 - 12285332 | F - 5.56% | TRUE | TRUE |
| 11 | 12115543 - 12285332 | | TRUE | TRUE |
| 11 | 12115543 - 12285332 | | TRUE | TRUE |
| 11 | 12115543 - 12285332 | | TRUE | TRUE |
| 11 | 12115543 - 12285332 | | TRUE | TRUE |
| 11 | 12115543 - 12285332 | | FALSE | TRUE |
| 11 | 12115543 - 12285332 | F - 33.33% | TRUE | TRUE |
| 11 | 12115543 - 12285332 | | FALSE | TRUE |
| 11 | 12115543 - 12285332 | | TRUE | TRUE |
| 13 | 77618792 - 77901185 | F - 31.25% | TRUE | TRUE |
| 13 | 77618792 - 77901185 | | FALSE | TRUE |
| 13 | 77618792 - 77901185 | F - 31.25% | TRUE | TRUE |
| 13 | 77618792 - 77901185 | F - 6.25% | TRUE | TRUE |
| 13 | 77618792 - 77901185 | | TRUE | TRUE |
| 14 | 104029299 - 104073860 | | TRUE | TRUE |
| 14 | 104029299 - 104073860 | T - 87.50% | TRUE | TRUE |
| 14 | 104029299 - 104073860 | F - 12.50% | FALSE | TRUE |
| 14 | 104029299 - 104073860 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 1 | 142618799 - 143257763 | | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | | TRUE | TRUE |
| 1 | 142618799 - 143257763 | T - 100.00% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 42.86% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 28.57% | FALSE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | T - 57.14% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 1 | 142618799 - 143257763 | F - 14.29% | TRUE | TRUE |
| 11 | 33060963 - 33127488 | | FALSE | TRUE |
| 11 | 33060963 - 33127488 | T - 77.78% | TRUE | TRUE |
| 2 | 264140 - 278283 | | TRUE | TRUE |
| 2 | 264140 - 278283 | | FALSE | TRUE |
| 2 | 264140 - 278283 | F - 9.52% | FALSE | TRUE |
| 5 | 61699799 - 61924416 | | TRUE | TRUE |
| 5 | 61699799 - 61924416 | | TRUE | TRUE |
| 5 | 61699799 - 61924416 | | TRUE | TRUE |
| 5 | 61699799 - 61924416 | F - 37.50% | TRUE | TRUE |
| 16 | 56965748 - 56977793 | | FALSE | TRUE |
| 16 | 56965748 - 56977793 | F - 8.33% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | T - 52.38% | TRUE | FALSE |
| 22 | 18900087 - 19279239 | | TRUE | TRUE |
| 22 | 18900087 - 19279239 | F - 14.29% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | F - 4.76% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | | TRUE | FALSE |
| 22 | 18900087 - 19279239 | F - 42.86% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | F - 4.76% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | F - 4.76% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | | TRUE | TRUE |
| 22 | 18900087 - 19279239 | T - 80.95% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | | TRUE | TRUE |
| 22 | 18900087 - 19279239 | | FALSE | TRUE |
| 22 | 18900087 - 19279239 | F - 4.76% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | T - 61.90% | TRUE | TRUE |
| 22 | 18900087 - 19279239 | | FALSE | TRUE |
| 5 | 81267844 - 81572241 | F - 13.33% | TRUE | TRUE |
| 5 | 81267844 - 81572241 | F - 40.00% | TRUE | TRUE |
| 5 | 81267844 - 81572241 | | TRUE | TRUE |
| 5 | 150816553 - 150871942 | | TRUE | TRUE |
| 5 | 150816553 - 150871942 | F - 6.67% | TRUE | TRUE |
| 5 | 150816553 - 150871942 | | TRUE | FALSE |
| 5 | 150816553 - 150871942 | F - 46.67% | TRUE | TRUE |
| 5 | 150816553 - 150871942 | F - 6.67% | TRUE | TRUE |
| 5 | 150816553 - 150871942 | F - 20.00% | TRUE | TRUE |
| 5 | 150816553 - 150871942 | | TRUE | TRUE |
| 5 | 150816553 - 150871942 | F - 6.67% | TRUE | TRUE |
| 5 | 150816553 - 150871942 | F - 20.00% | FALSE | TRUE |
| 5 | 150816553 - 150871942 | F - 6.67% | FALSE | TRUE |
| 5 | 150816553 - 150871942 | | FALSE | TRUE |
| 5 | 150816553 - 150871942 | F - 6.67% | TRUE | TRUE |
| 5 | 150816553 - 150871942 | | TRUE | TRUE |
| 5 | 150816553 - 150871942 | | TRUE | TRUE |
| 7 | 1004486 - 1015235 | T - 100.00% | TRUE | TRUE |
| 7 | 1004486 - 1015235 | F - 42.86% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 1004486 - 1015235 | F - 28.57% | TRUE | TRUE |
| 7 | 1004486 - 1015235 | F - 14.29% | FALSE | TRUE |
| 7 | 1004486 - 1015235 | F - 14.29% | FALSE | TRUE |
| 7 | 1004486 - 1015235 | | TRUE | TRUE |
| 7 | 140396471 - 140422590 | | TRUE | TRUE |
| 7 | 140396471 - 140422590 | F - 21.05% | FALSE | TRUE |
| 5 | 9546312 - 9550721 | F - 33.33% | TRUE | TRUE |
| 5 | 9546312 - 9550721 | T - 100.00% | TRUE | TRUE |
| 5 | 9546312 - 9550721 | T - 100.00% | TRUE | TRUE |
| 5 | 9546312 - 9550721 | | TRUE | TRUE |
| 12 | 108956294 - 108963160 | | TRUE | TRUE |
| 12 | 108956294 - 108963160 | | TRUE | TRUE |
| 12 | 108956294 - 108963160 | F - 23.53% | TRUE | TRUE |
| 14 | 95078634 - 95090397 | | TRUE | TRUE |
| 14 | 95078634 - 95090397 | F - 5.56% | TRUE | TRUE |
| 14 | 95078634 - 95090397 | | FALSE | TRUE |
| 10 | 63661013 - 63856707 | T - 66.67% | TRUE | TRUE |
| 10 | 63661013 - 63856707 | F - 16.67% | TRUE | TRUE |
| 10 | 63661013 - 63856707 | | TRUE | TRUE |
| 10 | 63661013 - 63856707 | | FALSE | TRUE |
| 7 | 99798276 - 99869855 | | FALSE | TRUE |
| 7 | 99798276 - 99869855 | F - 5.56% | TRUE | TRUE |
| 8 | 25285364 - 25315992 | | TRUE | TRUE |
| 8 | 25285364 - 25315992 | F - 26.67% | TRUE | TRUE |
| 8 | 25285364 - 25315992 | | FALSE | TRUE |
| 22 | 36622255 - 36636000 | F - 15.38% | TRUE | TRUE |
| 22 | 36622255 - 36636000 | | TRUE | TRUE |
| 22 | 36622255 - 36636000 | T - 69.23% | TRUE | TRUE |
| 22 | 36622255 - 36636000 | | TRUE | TRUE |
| 22 | 36622255 - 36636000 | F - 7.69% | TRUE | TRUE |
| 22 | 36622255 - 36636000 | F - 7.69% | TRUE | TRUE |
| 22 | 36622255 - 36636000 | | TRUE | TRUE |
| 22 | 36622255 - 36636000 | F - 46.15% | TRUE | TRUE |
| 1 | 109472130 - 109506111 | | TRUE | TRUE |
| 1 | 109472130 - 109506111 | | FALSE | TRUE |
| 1 | 109472130 - 109506111 | F - 43.75% | FALSE | TRUE |
| 1 | 109472130 - 109506111 | | TRUE | TRUE |
| 17 | 5185558 - 5289132 | | TRUE | TRUE |
| 17 | 5185558 - 5289132 | F - 6.25% | TRUE | TRUE |
| 6 | 126102307 - 126253176 | F - 19.23% | TRUE | TRUE |
| 6 | 126102307 - 126253176 | F - 11.54% | TRUE | TRUE |
| 6 | 126102307 - 126253176 | F - 3.85% | FALSE | TRUE |
| 6 | 126102307 - 126253176 | | TRUE | TRUE |
| 6 | 126102307 - 126253176 | | TRUE | TRUE |
| 7 | 115850547 - 115898837 | | TRUE | TRUE |
| 7 | 115850547 - 115898837 | | TRUE | TRUE |
| 7 | 115850547 - 115898837 | F - 17.65% | FALSE | TRUE |
| 7 | 115850547 - 115898837 | F - 17.65% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 30.77% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 38.46% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 30.77% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 38.46% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | T - 69.23% | TRUE | FALSE |
| 2 | 166604101 - 166651192 | F - 7.69% | TRUE | FALSE |
| 2 | 166604101 - 166651192 | F - 7.69% | TRUE | FALSE |
| 2 | 166604101 - 166651192 | F - 46.15% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 7.69% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 30.77% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 2 | 166604101 - 166651192 | F - 23.08% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 7.69% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 7.69% | TRUE | TRUE |
| 2 | 166604101 - 166651192 | F - 7.69% | TRUE | TRUE |
| 1 | 169433147 - 169455241 | T - 100.00% | TRUE | TRUE |
| 1 | 169433147 - 169455241 | F - 33.33% | TRUE | TRUE |
| 1 | 169433147 - 169455241 | | TRUE | TRUE |
| 1 | 169433147 - 169455241 | | TRUE | TRUE |
| 1 | 169433147 - 169455241 | | TRUE | TRUE |
| 14 | 104378625 - 104394606 | F - 7.69% | TRUE | TRUE |
| 14 | 104378625 - 104394606 | | FALSE | TRUE |
| 14 | 104378625 - 104394606 | F - 23.08% | FALSE | TRUE |
| 14 | 104378625 - 104394606 | F - 30.77% | TRUE | TRUE |
| 19 | 21324840 - 21368805 | T - 100.00% | TRUE | TRUE |
| 19 | 21324840 - 21368805 | T - 75.00% | TRUE | TRUE |
| 19 | 21324840 - 21368805 | | FALSE | TRUE |
| 12 | 123459127 - 123464590 | | FALSE | TRUE |
| 12 | 123459127 - 123464590 | F - 19.05% | TRUE | TRUE |
| 8 | 42995556 - 43057998 | | TRUE | TRUE |
| 8 | 42995556 - 43057998 | F - 21.43% | TRUE | TRUE |
| 15 | 77287021 - 77329673 | T - 84.62% | FALSE | TRUE |
| 15 | 77287021 - 77329673 | | FALSE | TRUE |
| 15 | 77287021 - 77329673 | T - 84.62% | FALSE | TRUE |
| 15 | 77287021 - 77329673 | | TRUE | TRUE |
| 15 | 77287021 - 77329673 | | FALSE | TRUE |
| 15 | 77287021 - 77329673 | T - 84.62% | FALSE | TRUE |
| 15 | 77287021 - 77329673 | | FALSE | TRUE |
| 15 | 77287021 - 77329673 | | FALSE | TRUE |
| 14 | 65405870 - 65409531 | | FALSE | TRUE |
| 14 | 65405870 - 65409531 | F - 14.29% | FALSE | TRUE |
| 16 | 28603264 - 28608430 | | TRUE | TRUE |
| 16 | 28603264 - 28608430 | T - 100.00% | FALSE | TRUE |
| 16 | 28603264 - 28608430 | | FALSE | TRUE |
| 4 | 88720702 - 88733601 | | TRUE | TRUE |
| 4 | 88720702 - 88733601 | T - 50.00% | TRUE | TRUE |
| 1 | 104159954 - 104168402 | T - 83.33% | FALSE | TRUE |
| 1 | 104159954 - 104168402 | | FALSE | TRUE |
| 1 | 161732646 - 161736000 | T - 50.00% | TRUE | TRUE |
| 1 | 161732646 - 161736000 | | TRUE | TRUE |
| 2 | 62727356 - 62762780 | T - 100.00% | TRUE | TRUE |
| 2 | 62727356 - 62762780 | | TRUE | TRUE |
| 2 | 128603840 - 128615731 | F - 12.50% | TRUE | TRUE |
| 2 | 128603840 - 128615731 | | TRUE | TRUE |
| 7 | 121958478 - 122526813 | T - 95.00% | TRUE | TRUE |
| 7 | 121958478 - 122526813 | | FALSE | TRUE |
| 7 | 121958478 - 122526813 | | FALSE | TRUE |
| 7 | 121958478 - 122526813 | | TRUE | TRUE |
| 8 | 23583844 - 23600555 | T - 100.00% | TRUE | TRUE |
| 8 | 23583844 - 23600555 | | FALSE | TRUE |
| 12 | 75956982 - 76377795 | T - 100.00% | FALSE | TRUE |
| 12 | 75956982 - 76377795 | | FALSE | TRUE |
| 16 | 89803959 - 89883065 | T - 81.82% | FALSE | TRUE |
| 16 | 89803959 - 89883065 | | FALSE | TRUE |
| 16 | 89803959 - 89883065 | | FALSE | TRUE |
| 16 | 89803959 - 89883065 | | FALSE | TRUE |
| 17 | 12692829 - 12894960 | T - 85.71% | FALSE | TRUE |
| 17 | 12692829 - 12894960 | | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|------|
| 18 | 61637159 - 61672278 | T - 66.67% | TRUE | TRUE |
| 18 | 61637159 - 61672278 | | FALSE | TRUE |
| 18 | 61637159 - 61672278 | | TRUE | TRUE |
| 18 | 61637159 - 61672278 | | TRUE | TRUE |
| 6_dbb_hap3 | 2839444 - 2842231 | T - 70.97% | FALSE | TRUE |
| 6_dbb_hap3 | 2839444 - 2842231 | | FALSE | TRUE |
| 6_mann_hap4 | 2458574 - 2474393 | F - 45.45% | TRUE | TRUE |
| 6_mann_hap4 | 2458574 - 2474393 | | TRUE | TRUE |
| 6_mcf_hap5 | 2933604 - 2936387 | T - 70.97% | FALSE | TRUE |
| 6_mcf_hap5 | 2933604 - 2936387 | | FALSE | TRUE |
| 6_mcf_hap5 | 2492152 - 2507972 | F - 45.45% | TRUE | TRUE |
| 6_mcf_hap5 | 2492152 - 2507972 | | TRUE | TRUE |
| 6_qbl_hap6 | 1059904 - 1066156 | T - 100.00% | TRUE | TRUE |
| 6_qbl_hap6 | 1059904 - 1066156 | | TRUE | TRUE |
| 1 | 23037331 - 23241823 | | TRUE | TRUE |
| 1 | 23037331 - 23241823 | F - 8.33% | FALSE | TRUE |
| 1 | 23037331 - 23241823 | F - 8.33% | TRUE | TRUE |
| 1 | 23037331 - 23241823 | F - 8.33% | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | FALSE | TRUE |
| 1 | 39546988 - 39952810 | | FALSE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | F - 28.26% | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | F - 8.70% | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | F - 30.43% | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | FALSE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | F - 2.17% | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | FALSE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | FALSE | TRUE |
| 1 | 39546988 - 39952810 | F - 4.35% | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | TRUE | TRUE |
| 1 | 39546988 - 39952810 | | FALSE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | F - 18.75% | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | FALSE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | F - 6.25% | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 43855553 - 43922666 | | FALSE | TRUE |
| 1 | 43855553 - 43922666 | | TRUE | TRUE |
| 1 | 155216996 - 155225274 | F - 44.44% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|------|
| 1 | 155216996 - 155225274 | | TRUE | TRUE |
| 1 | 155216996 - 155225274 | T - 77.78% | TRUE | TRUE |
| 1 | 155216996 - 155225274 | | TRUE | TRUE |
| 1 | 155216996 - 155225274 | | FALSE | TRUE |
| 1 | 204100190 - 204121307 | F - 5.26% | TRUE | TRUE |
| 1 | 204100190 - 204121307 | | TRUE | TRUE |
| 1 | 204100190 - 204121307 | | TRUE | TRUE |
| 1 | 204100190 - 204121307 | F - 21.05% | TRUE | TRUE |
| 1 | 204100190 - 204121307 | F - 5.26% | FALSE | TRUE |
| 1 | 204100190 - 204121307 | F - 10.53% | FALSE | TRUE |
| 1 | 47681963 - 47697892 | T - 66.67% | FALSE | TRUE |
| 1 | 47681963 - 47697892 | | TRUE | TRUE |
| 1 | 47681963 - 47697892 | F - 8.33% | TRUE | TRUE |
| 1 | 47681963 - 47697892 | F - 16.67% | FALSE | TRUE |
| 1 | 47681963 - 47697892 | T - 75.00% | TRUE | TRUE |
| 1 | 47681963 - 47697892 | | TRUE | TRUE |
| 1 | 47681963 - 47697892 | F - 33.33% | TRUE | TRUE |
| 1 | 47681963 - 47697892 | T - 75.00% | TRUE | TRUE |
| 1 | 47681963 - 47697892 | | TRUE | TRUE |
| 1 | 47681963 - 47697892 | | TRUE | TRUE |
| 1 | 47681963 - 47697892 | | FALSE | TRUE |
| 1 | 47681963 - 47697892 | | FALSE | TRUE |
| 2 | 64068074 - 64118696 | F - 2.63% | TRUE | TRUE |
| 2 | 64068074 - 64118696 | F - 7.89% | TRUE | TRUE |
| 2 | 64068074 - 64118696 | F - 13.16% | TRUE | TRUE |
| 2 | 64068074 - 64118696 | F - 39.47% | TRUE | TRUE |
| 2 | 64068074 - 64118696 | | TRUE | TRUE |
| 2 | 64068074 - 64118696 | | FALSE | TRUE |
| 2 | 64068074 - 64118696 | | FALSE | TRUE |
| 2 | 64068074 - 64118696 | F - 5.26% | TRUE | TRUE |
| 2 | 64068074 - 64118696 | | TRUE | TRUE |
| 2 | 64068074 - 64118696 | | FALSE | TRUE |
| 2 | 64068074 - 64118696 | | TRUE | TRUE |
| 2 | 231751215 - 231769232 | | FALSE | TRUE |
| 2 | 231751215 - 231769232 | F - 20.00% | TRUE | TRUE |
| 2 | 231751215 - 231769232 | | FALSE | TRUE |
| 2 | 233470767 - 233547491 | F - 8.33% | TRUE | TRUE |
| 2 | 233470767 - 233547491 | F - 16.67% | TRUE | TRUE |
| 2 | 233470767 - 233547491 | F - 25.00% | TRUE | TRUE |
| 2 | 233470767 - 233547491 | F - 16.67% | FALSE | TRUE |
| 2 | 233470767 - 233547491 | | TRUE | TRUE |
| 3 | 27151576 - 27410951 | F - 33.33% | TRUE | TRUE |
| 3 | 27151576 - 27410951 | | FALSE | TRUE |
| 3 | 27151576 - 27410951 | | FALSE | TRUE |
| 3 | 27151576 - 27410951 | F - 33.33% | TRUE | TRUE |
| 3 | 27151576 - 27410951 | | FALSE | TRUE |
| 3 | 27151576 - 27410951 | | FALSE | TRUE |
| 3 | 27151576 - 27410951 | F - 5.56% | TRUE | TRUE |
| 3 | 27151576 - 27410951 | F - 22.22% | TRUE | TRUE |
| 3 | 27151576 - 27410951 | F - 44.44% | TRUE | TRUE |
| 3 | 27151576 - 27410951 | | TRUE | TRUE |
| 3 | 27151576 - 27410951 | F - 33.33% | FALSE | TRUE |
| 3 | 27151576 - 27410951 | F - 27.78% | TRUE | TRUE |
| 3 | 27151576 - 27410951 | | TRUE | TRUE |
| 3 | 27151576 - 27410951 | F - 22.22% | FALSE | TRUE |
| 3 | 27151576 - 27410951 | | FALSE | TRUE |
| 3 | 156465132 - 156534851 | | TRUE | TRUE |
| 3 | 156465132 - 156534851 | F - 25.00% | FALSE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|------|
| 3 | 156465132 - 156534851 | | FALSE | TRUE |
| 3 | 156465132 - 156534851 | F - 25.00% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 46.43% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 46.43% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 3.57% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 42.86% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 28.57% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 3.57% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 46.43% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 28.57% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | F - 25.00% | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | TRUE | TRUE |
| 4 | 15471489 - 15603180 | | FALSE | TRUE |
| 4 | 37892705 - 38140796 | F - 3.85% | TRUE | TRUE |
| 4 | 37892705 - 38140796 | F - 3.85% | TRUE | TRUE |
| 4 | 37892705 - 38140796 | | TRUE | TRUE |
| 4 | 37892705 - 38140796 | | TRUE | TRUE |
| 4 | 37892705 - 38140796 | F - 30.77% | TRUE | TRUE |
| 4 | 37892705 - 38140796 | F - 3.85% | FALSE | TRUE |
| 4 | 37892705 - 38140796 | | TRUE | TRUE |
| 4 | 37892705 - 38140796 | F - 19.23% | TRUE | TRUE |
| 4 | 42399856 - 42404504 | T - 50.00% | TRUE | TRUE |
| 4 | 42399856 - 42404504 | | FALSE | TRUE |
| 4 | 42399856 - 42404504 | T - 100.00% | TRUE | TRUE |
| 4 | 170314421 - 170533780 | T - 86.67% | TRUE | TRUE |
| 4 | 170314421 - 170533780 | | FALSE | TRUE |
| 4 | 170314421 - 170533780 | | TRUE | TRUE |
| 5 | 95087023 - 95158709 | F - 26.67% | TRUE | TRUE |
| 5 | 95087023 - 95158709 | | TRUE | TRUE |
| 5 | 95087023 - 95158709 | F - 6.67% | TRUE | TRUE |
| 5 | 95087023 - 95158709 | F - 20.00% | TRUE | TRUE |
| 5 | 95087023 - 95158709 | F - 13.33% | TRUE | TRUE |
| 5 | 125877533 - 125931110 | | FALSE | TRUE |
| 5 | 125877533 - 125931110 | F - 8.33% | TRUE | TRUE |
| 5 | 125877533 - 125931110 | F - 4.17% | TRUE | TRUE |
| 5 | 125877533 - 125931110 | | TRUE | TRUE |
| 6 | 90277863 - 90348474 | T - 50.00% | TRUE | TRUE |
| 6 | 90277863 - 90348474 | | TRUE | TRUE |
| 6 | 90277863 - 90348474 | | FALSE | TRUE |
| 7 | 106809406 - 106842974 | | TRUE | TRUE |
| 7 | 106809406 - 106842974 | F - 10.00% | TRUE | TRUE |
| 7 | 106809406 - 106842974 | | TRUE | TRUE |
| 7 | 44256749 - 44374176 | F - 48.65% | TRUE | TRUE |
| 7 | 44256749 - 44374176 | | FALSE | TRUE |
| 7 | 80371854 - 80551675 | F - 8.33% | TRUE | TRUE |
| 7 | 80371854 - 80551675 | | TRUE | TRUE |
| 8 | 68085747 - 68255912 | | TRUE | TRUE |
| 8 | 68085747 - 68255912 | | TRUE | TRUE |
| 8 | 68085747 - 68255912 | T - 69.23% | TRUE | TRUE |
| 8 | 68085747 - 68255912 | | TRUE | TRUE |
| 8 | 92967195 - 93115514 | F - 7.46% | TRUE | TRUE |
| 8 | 92967195 - 93115514 | F - 29.85% | FALSE | TRUE |
| 8 | 92967195 - 93115514 | F - 26.87% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|------|
| | 8 | 92967195 - 93115514 | | FALSE | TRUE |
| | 8 | 92967195 - 93115514 | | FALSE | TRUE |
| | 8 | 92967195 - 93115514 | | FALSE | TRUE |
| | 8 | 144239331 - 144242128 | | TRUE | TRUE |
| | 8 | 144239331 - 144242128 | F - 11.11% | FALSE | TRUE |
| X | | 110909043 - 111003877 | F - 31.58% | TRUE | TRUE |
| X | | 110909043 - 111003877 | F - 21.05% | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | F - 21.05% | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | F - 18.42% | TRUE | TRUE |
| X | | 110909043 - 111003877 | F - 31.58% | TRUE | TRUE |
| X | | 110909043 - 111003877 | F - 26.32% | TRUE | TRUE |
| X | | 110909043 - 111003877 | F - 2.63% | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | | FALSE | TRUE |
| X | | 110909043 - 111003877 | | TRUE | TRUE |
| X | | 110909043 - 111003877 | | FALSE | TRUE |
| X | | 71549366 - 71792953 | | FALSE | TRUE |
| X | | 71549366 - 71792953 | F - 40.00% | FALSE | TRUE |
| X | | 118212598 - 118284542 | | TRUE | TRUE |
| X | | 118212598 - 118284542 | T - 66.67% | FALSE | TRUE |
| X | | 118212598 - 118284542 | | FALSE | TRUE |
| | 10 | 81891477 - 81905115 | | TRUE | TRUE |
| | 10 | 81891477 - 81905115 | T - 83.33% | TRUE | TRUE |
| | 10 | 78629359 - 79398353 | F - 2.78% | TRUE | TRUE |
| | 10 | 78629359 - 79398353 | F - 2.78% | TRUE | TRUE |
| | 10 | 78629359 - 79398353 | F - 5.56% | FALSE | TRUE |
| | 10 | 78629359 - 79398353 | | TRUE | TRUE |
| | 10 | 78629359 - 79398353 | | FALSE | TRUE |
| | 10 | 78629359 - 79398353 | F - 5.56% | FALSE | TRUE |
| | 10 | 78629359 - 79398353 | | TRUE | TRUE |
| | 11 | 450280 - 491399 | | TRUE | TRUE |
| | 11 | 450280 - 491399 | T - 75.00% | FALSE | TRUE |
| | 11 | 450280 - 491399 | | FALSE | TRUE |
| | 11 | 44748662 - 44953977 | | TRUE | TRUE |
| | 11 | 44748662 - 44953977 | F - 7.14% | TRUE | TRUE |
| | 11 | 44748662 - 44953977 | | TRUE | TRUE |
| | 11 | 44748662 - 44953977 | F - 14.29% | TRUE | TRUE |
| | 11 | 44748662 - 44953977 | | FALSE | TRUE |
| | 11 | 71505409 - 71524905 | F - 33.33% | FALSE | TRUE |
| | 11 | 71505409 - 71524905 | | TRUE | TRUE |
| | 11 | 71505409 - 71524905 | | FALSE | TRUE |
| | 11 | 71505409 - 71524905 | F - 33.33% | TRUE | TRUE |
| | 11 | 76391210 - 76432833 | F - 33.33% | TRUE | TRUE |
| | 11 | 76391210 - 76432833 | | TRUE | TRUE |
| | 11 | 76391210 - 76432833 | | TRUE | TRUE |
| | 11 | 76391210 - 76432833 | F - 33.33% | FALSE | TRUE |
| | 11 | 76391210 - 76432833 | | FALSE | TRUE |
| | 11 | 76391210 - 76432833 | | FALSE | TRUE |
| | 11 | 76391210 - 76432833 | | FALSE | TRUE |
| | 11 | 76391210 - 76432833 | | FALSE | TRUE |
| | 11 | 76391210 - 76432833 | F - 33.33% | FALSE | TRUE |
| | 12 | 119772517 - 119978852 | F - 25.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 119772517 - 119978852 | F - 25.00% | FALSE | TRUE |
| 12 | 119772517 - 119978852 | F - 25.00% | TRUE | TRUE |
| 12 | 119772517 - 119978852 | | TRUE | TRUE |
| 14 | 23594504 - 23652850 | | TRUE | TRUE |
| 14 | 23594504 - 23652850 | | TRUE | TRUE |
| 14 | 23594504 - 23652850 | | TRUE | TRUE |
| 14 | 23594504 - 23652850 | T - 86.67% | TRUE | TRUE |
| 14 | 23594504 - 23652850 | | TRUE | TRUE |
| 14 | 23594504 - 23652850 | F - 6.67% | TRUE | TRUE |
| 14 | 23594504 - 23652850 | F - 6.67% | TRUE | TRUE |
| 15 | 34817408 - 34875771 | | TRUE | TRUE |
| 15 | 34817408 - 34875771 | T - 100.00% | TRUE | TRUE |
| 15 | 34817408 - 34875771 | F - 36.36% | TRUE | TRUE |
| 16 | 238968 - 385566 | | TRUE | TRUE |
| 16 | 238968 - 385566 | F - 44.83% | TRUE | TRUE |
| 16 | 238968 - 385566 | F - 3.45% | TRUE | TRUE |
| 16 | 238968 - 385566 | | FALSE | TRUE |
| 16 | 238968 - 385566 | F - 6.90% | TRUE | TRUE |
| 17 | 36861795 - 36886056 | | TRUE | TRUE |
| 17 | 36861795 - 36886056 | F - 35.71% | TRUE | TRUE |
| 17 | 36861795 - 36886056 | | TRUE | TRUE |
| 17 | 36861795 - 36886056 | | TRUE | TRUE |
| 17 | 36861795 - 36886056 | | TRUE | TRUE |
| 20 | 60806978 - 60811355 | | FALSE | TRUE |
| 20 | 60806978 - 60811355 | | FALSE | TRUE |
| 20 | 60806978 - 60811355 | T - 50.00% | TRUE | TRUE |
| 20 | 43285092 - 43374662 | F - 12.50% | FALSE | TRUE |
| 20 | 43285092 - 43374662 | | FALSE | TRUE |
| 20 | 43285092 - 43374662 | F - 37.50% | FALSE | TRUE |
| 22 | 24083769 - 24093279 | T - 66.67% | TRUE | TRUE |
| 22 | 24083769 - 24093279 | | FALSE | TRUE |
| 22 | 30636436 - 30642840 | T - 50.00% | TRUE | TRUE |
| 22 | 30636436 - 30642840 | | TRUE | TRUE |
| 1 | 27648636 - 27662891 | F - 13.33% | TRUE | TRUE |
| 1 | 27648636 - 27662891 | | FALSE | TRUE |
| 1 | 27648636 - 27662891 | F - 20.00% | TRUE | TRUE |
| 1 | 41445007 - 41478235 | F - 5.00% | TRUE | TRUE |
| 1 | 41445007 - 41478235 | F - 10.00% | TRUE | TRUE |
| 1 | 41445007 - 41478235 | F - 5.00% | TRUE | TRUE |
| 1 | 41445007 - 41478235 | | FALSE | TRUE |
| 1 | 41445007 - 41478235 | | TRUE | TRUE |
| 1 | 41445007 - 41478235 | | TRUE | TRUE |
| 1 | 8921059 - 9288096 | F - 10.53% | TRUE | TRUE |
| 1 | 8921059 - 9288096 | | TRUE | TRUE |
| 1 | 8921059 - 9288096 | F - 10.53% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | T - 66.67% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | T - 66.67% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 44.44% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 33.33% | TRUE | FALSE |
| 1 | 95104017 - 95285837 | F - 11.11% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | | TRUE | FALSE |
| 1 | 95104017 - 95285837 | | TRUE | FALSE |
| 1 | 95104017 - 95285837 | | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 11.11% | TRUE | FALSE |
| 1 | 95104017 - 95285837 | F - 22.22% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 11.11% | FALSE | TRUE |
| 1 | 95104017 - 95285837 | | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 11.11% | TRUE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 1 | 95104017 - 95285837 | F - 22.22% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | T - 55.56% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 11.11% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | | TRUE | TRUE |
| 1 | 95104017 - 95285837 | F - 22.22% | TRUE | TRUE |
| 1 | 95104017 - 95285837 | | TRUE | TRUE |
| 1 | 95104017 - 95285837 | | TRUE | TRUE |
| 1 | 243287730 - 243418708 | | TRUE | TRUE |
| 1 | 243287730 - 243418708 | F - 2.63% | FALSE | TRUE |
| 1 | 19197924 - 19229293 | T - 73.33% | TRUE | TRUE |
| 1 | 19197924 - 19229293 | | TRUE | TRUE |
| 1 | 19197924 - 19229293 | | TRUE | TRUE |
| 1 | 19197924 - 19229293 | F - 6.67% | TRUE | TRUE |
| 1 | 19197924 - 19229293 | T - 73.33% | TRUE | TRUE |
| 1 | 19197924 - 19229293 | F - 13.33% | TRUE | TRUE |
| 1 | 19197924 - 19229293 | | TRUE | TRUE |
| 2 | 74119390 - 74146992 | T - 57.14% | TRUE | TRUE |
| 2 | 74119390 - 74146992 | T - 64.29% | TRUE | TRUE |
| 2 | 74119390 - 74146992 | | TRUE | TRUE |
| 2 | 74119390 - 74146992 | T - 78.57% | TRUE | FALSE |
| 2 | 74119390 - 74146992 | | TRUE | FALSE |
| 2 | 74119390 - 74146992 | | TRUE | TRUE |
| 2 | 74119390 - 74146992 | | TRUE | FALSE |
| 2 | 74119390 - 74146992 | F - 7.14% | TRUE | FALSE |
| 2 | 74119390 - 74146992 | F - 7.14% | TRUE | TRUE |
| 2 | 74119390 - 74146992 | F - 7.14% | TRUE | FALSE |
| 2 | 74119390 - 74146992 | F - 14.29% | TRUE | TRUE |
| 2 | 74119390 - 74146992 | F - 21.43% | TRUE | TRUE |
| 2 | 74119390 - 74146992 | | TRUE | TRUE |
| 2 | 74119390 - 74146992 | F - 7.14% | TRUE | TRUE |
| 2 | 74119390 - 74146992 | | TRUE | TRUE |
| 2 | 74119390 - 74146992 | | TRUE | TRUE |
| 2 | 74119390 - 74146992 | | FALSE | TRUE |
| 2 | 74119390 - 74146992 | | FALSE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 23.08% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 23.08% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 15.38% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 46.15% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 23.08% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | FALSE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 15.38% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 15.38% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | F - 23.08% | TRUE | TRUE |
| 2 | 98108235 - 98206428 | | TRUE | TRUE |
| 3 | 156543270 - 156763918 | F - 18.18% | TRUE | TRUE |
| 3 | 156543270 - 156763918 | F - 9.09% | FALSE | TRUE |
| 3 | 156543270 - 156763918 | F - 36.36% | FALSE | TRUE |
| 3 | 156543270 - 156763918 | F - 27.27% | FALSE | TRUE |

| | | | | |
|---|-----------------------|------------|-------|-------|
| 3 | 156543270 - 156763918 | | FALSE | TRUE |
| 3 | 156543270 - 156763918 | F - 45.45% | FALSE | TRUE |
| 3 | 156543270 - 156763918 | T - 54.55% | TRUE | TRUE |
| 3 | 156543270 - 156763918 | T - 63.64% | TRUE | TRUE |
| 3 | 170075466 - 170114637 | F - 6.67% | TRUE | TRUE |
| 3 | 170075466 - 170114637 | F - 6.67% | TRUE | TRUE |
| 3 | 170075466 - 170114637 | F - 26.67% | TRUE | TRUE |
| 3 | 170075466 - 170114637 | | TRUE | FALSE |
| 3 | 170075466 - 170114637 | T - 53.33% | TRUE | TRUE |
| 3 | 170075466 - 170114637 | | TRUE | TRUE |
| 3 | 170075466 - 170114637 | | FALSE | TRUE |
| 3 | 197687071 - 197770591 | | FALSE | TRUE |
| 3 | 197687071 - 197770591 | F - 37.50% | TRUE | TRUE |
| 3 | 197687071 - 197770591 | T - 50.00% | TRUE | TRUE |
| 4 | 20697905 - 20754530 | F - 42.86% | TRUE | TRUE |
| 4 | 20697905 - 20754530 | | FALSE | TRUE |
| 4 | 20697905 - 20754530 | F - 2.38% | TRUE | TRUE |
| 4 | 41258430 - 41270472 | F - 5.88% | TRUE | TRUE |
| 4 | 41258430 - 41270472 | | TRUE | FALSE |
| 4 | 41258430 - 41270472 | T - 88.24% | TRUE | TRUE |
| 4 | 41258430 - 41270472 | F - 5.88% | TRUE | TRUE |
| 4 | 41258430 - 41270472 | | TRUE | TRUE |
| 4 | 41258430 - 41270472 | F - 23.53% | TRUE | TRUE |
| 4 | 41258430 - 41270472 | | FALSE | TRUE |
| 4 | 186125391 - 186291339 | | TRUE | TRUE |
| 4 | 186125391 - 186291339 | T - 80.00% | FALSE | TRUE |
| 4 | 186125391 - 186291339 | | FALSE | TRUE |
| 4 | 99992130 - 100009952 | | TRUE | TRUE |
| 4 | 99992130 - 100009952 | F - 18.75% | TRUE | TRUE |
| 4 | 76871059 - 76912115 | | TRUE | TRUE |
| 4 | 76871059 - 76912115 | T - 53.85% | TRUE | TRUE |
| 5 | 145316126 - 145461354 | F - 31.25% | TRUE | TRUE |
| 5 | 145316126 - 145461354 | | FALSE | TRUE |
| 5 | 145316126 - 145461354 | | TRUE | TRUE |
| 5 | 145316126 - 145461354 | F - 31.25% | TRUE | TRUE |
| 5 | 145316126 - 145461354 | | TRUE | TRUE |
| 5 | 145316126 - 145461354 | | TRUE | TRUE |
| 5 | 145316126 - 145461354 | F - 31.25% | TRUE | TRUE |
| 5 | 145316126 - 145461354 | | FALSE | TRUE |
| 5 | 145316126 - 145461354 | | FALSE | TRUE |
| 5 | 145316126 - 145461354 | | FALSE | TRUE |
| 5 | 98190908 - 98262240 | F - 31.25% | TRUE | TRUE |
| 5 | 98190908 - 98262240 | | TRUE | TRUE |
| 8 | 94870035 - 94938296 | F - 5.00% | FALSE | TRUE |
| 8 | 94870035 - 94938296 | | TRUE | TRUE |
| 8 | 26605667 - 26724790 | F - 47.37% | FALSE | TRUE |
| 8 | 26605667 - 26724790 | F - 10.53% | FALSE | TRUE |
| 8 | 26605667 - 26724790 | | FALSE | TRUE |
| 8 | 26605667 - 26724790 | | TRUE | TRUE |
| 8 | 30631973 - 30671830 | F - 7.69% | TRUE | TRUE |
| 8 | 30631973 - 30671830 | | TRUE | TRUE |
| 8 | 91634223 - 91803860 | F - 33.33% | TRUE | TRUE |
| 8 | 91634223 - 91803860 | F - 11.11% | TRUE | TRUE |
| 8 | 91634223 - 91803860 | F - 44.44% | TRUE | TRUE |
| 8 | 91634223 - 91803860 | F - 11.11% | FALSE | TRUE |
| 8 | 91634223 - 91803860 | T - 55.56% | TRUE | TRUE |
| 8 | 91634223 - 91803860 | F - 11.11% | TRUE | TRUE |
| 8 | 91634223 - 91803860 | F - 22.22% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 8 | 91634223 - 91803860 | F - 22.22% | TRUE | TRUE |
| 8 | 91634223 - 91803860 | | TRUE | TRUE |
| 9 | 2015342 - 2193624 | F - 20.00% | TRUE | TRUE |
| 9 | 2015342 - 2193624 | F - 8.00% | TRUE | TRUE |
| 9 | 2015342 - 2193624 | | TRUE | TRUE |
| 9 | 2422702 - 2622373 | F - 28.57% | TRUE | TRUE |
| 9 | 2422702 - 2622373 | | TRUE | TRUE |
| 9 | 2422702 - 2622373 | F - 14.29% | TRUE | TRUE |
| 9 | 2422702 - 2622373 | F - 42.86% | TRUE | FALSE |
| 9 | 2422702 - 2622373 | T - 57.14% | TRUE | TRUE |
| 9 | 2422702 - 2622373 | F - 42.86% | FALSE | TRUE |
| 9 | 2422702 - 2622373 | F - 42.86% | TRUE | TRUE |
| 9 | 2422702 - 2622373 | F - 14.29% | TRUE | TRUE |
| 9 | 2422702 - 2622373 | F - 28.57% | TRUE | TRUE |
| 9 | 2422702 - 2622373 | | TRUE | TRUE |
| 9 | 2422702 - 2622373 | | TRUE | TRUE |
| 9 | 2422702 - 2622373 | | FALSE | TRUE |
| 9 | 115865618 - 115873957 | T - 100.00% | TRUE | TRUE |
| 9 | 115865618 - 115873957 | | FALSE | TRUE |
| 9 | 139698379 - 139703300 | T - 100.00% | TRUE | TRUE |
| 9 | 139698379 - 139703300 | | TRUE | TRUE |
| 10 | 33247414 - 33371030 | F - 33.33% | TRUE | TRUE |
| 10 | 33247414 - 33371030 | | TRUE | TRUE |
| 10 | 74451889 - 74647452 | | TRUE | TRUE |
| 10 | 74451889 - 74647452 | | TRUE | TRUE |
| 10 | 74451889 - 74647452 | F - 11.11% | TRUE | TRUE |
| 10 | 82167585 - 82192753 | F - 15.38% | TRUE | TRUE |
| 10 | 82167585 - 82192753 | | TRUE | TRUE |
| 10 | 82167585 - 82192753 | | FALSE | TRUE |
| 10 | 128593978 - 129250781 | F - 10.00% | FALSE | TRUE |
| 10 | 128593978 - 129250781 | | TRUE | TRUE |
| 10 | 128593978 - 129250781 | | TRUE | TRUE |
| 10 | 81315608 - 81320163 | F - 35.71% | TRUE | TRUE |
| 10 | 81315608 - 81320163 | | FALSE | TRUE |
| 11 | 85339622 - 85347583 | | FALSE | TRUE |
| 11 | 85339622 - 85347583 | F - 16.67% | FALSE | TRUE |
| 11 | 85339622 - 85347583 | T - 83.33% | TRUE | TRUE |
| 11 | 111744780 - 111750181 | T - 60.00% | FALSE | TRUE |
| 11 | 111744780 - 111750181 | | FALSE | TRUE |
| 11 | 111744780 - 111750181 | T - 100.00% | FALSE | TRUE |
| 12 | 51317255 - 51326300 | F - 33.33% | TRUE | TRUE |
| 12 | 51317255 - 51326300 | T - 83.33% | TRUE | TRUE |
| 12 | 51317255 - 51326300 | | TRUE | TRUE |
| 12 | 51317255 - 51326300 | | TRUE | TRUE |
| 12 | 51317255 - 51326300 | T - 50.00% | TRUE | TRUE |
| 12 | 51317255 - 51326300 | F - 16.67% | FALSE | TRUE |
| 12 | 8325133 - 8332642 | | TRUE | TRUE |
| 12 | 8325133 - 8332642 | T - 100.00% | TRUE | TRUE |
| 12 | 8325133 - 8332642 | | FALSE | TRUE |
| 12 | 8325133 - 8332642 | T - 100.00% | TRUE | TRUE |
| 14 | 21819631 - 21852425 | | TRUE | TRUE |
| 14 | 21819631 - 21852425 | | FALSE | TRUE |
| 14 | 21819631 - 21852425 | | FALSE | TRUE |
| 14 | 21819631 - 21852425 | F - 40.00% | TRUE | TRUE |
| 14 | 21819631 - 21852425 | | TRUE | TRUE |
| 14 | 21819631 - 21852425 | | TRUE | TRUE |
| 14 | 21819631 - 21852425 | | FALSE | TRUE |
| 14 | 21819631 - 21852425 | | TRUE | TRUE |

| | | | | |
|------------|---------------------|-------------|-------|------|
| 14 | 65412532 - 65439132 | T - 87.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 12.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 37.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 25.00% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | | TRUE | TRUE |
| 14 | 65412532 - 65439132 | T - 62.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 12.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 12.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 12.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 12.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | F - 12.50% | TRUE | TRUE |
| 14 | 65412532 - 65439132 | | TRUE | TRUE |
| 15 | 59063393 - 59154099 | | TRUE | TRUE |
| 15 | 59063393 - 59154099 | | TRUE | TRUE |
| 15 | 59063393 - 59154099 | T - 62.50% | TRUE | TRUE |
| 15 | 59063393 - 59154099 | | FALSE | TRUE |
| 15 | 59063393 - 59154099 | | TRUE | TRUE |
| 17 | 15848231 - 15879210 | T - 100.00% | TRUE | TRUE |
| 17 | 15848231 - 15879210 | | TRUE | TRUE |
| 17 | 56078280 - 56084707 | | TRUE | TRUE |
| 17 | 56078280 - 56084707 | T - 50.00% | TRUE | TRUE |
| 17 | 61957572 - 61959295 | T - 100.00% | TRUE | TRUE |
| 17 | 61957572 - 61959295 | | TRUE | TRUE |
| 17 | 80059346 - 80170689 | F - 35.71% | TRUE | TRUE |
| 17 | 80059346 - 80170689 | | FALSE | TRUE |
| 17 | 80059346 - 80170689 | | TRUE | TRUE |
| 17 | 3468740 - 3500392 | | FALSE | TRUE |
| 17 | 3468740 - 3500392 | F - 15.38% | FALSE | TRUE |
| 18 | 48494386 - 48514491 | T - 100.00% | TRUE | TRUE |
| 18 | 48494386 - 48514491 | | TRUE | TRUE |
| 18 | 48494386 - 48514491 | T - 50.00% | FALSE | TRUE |
| 19 | 24216247 - 24312654 | F - 18.18% | TRUE | TRUE |
| 19 | 24216247 - 24312654 | F - 18.18% | FALSE | TRUE |
| 19 | 24216247 - 24312654 | | FALSE | TRUE |
| 19 | 24216247 - 24312654 | | FALSE | TRUE |
| 19 | 5993175 - 6110664 | | TRUE | TRUE |
| 19 | 5993175 - 6110664 | T - 80.00% | TRUE | TRUE |
| 20 | 42086504 - 42092245 | | TRUE | TRUE |
| 20 | 42086504 - 42092245 | F - 40.00% | TRUE | TRUE |
| 21 | 34870940 - 34915797 | F - 3.70% | FALSE | TRUE |
| 21 | 34870940 - 34915797 | | FALSE | TRUE |
| 21 | 34870940 - 34915797 | F - 40.74% | TRUE | TRUE |
| 21 | 34870940 - 34915797 | F - 40.74% | TRUE | TRUE |
| 21 | 34870940 - 34915797 | F - 7.41% | FALSE | TRUE |
| 6_cox_hap2 | 2624976 - 2640772 | F - 45.45% | TRUE | TRUE |
| 6_cox_hap2 | 2624976 - 2640772 | | TRUE | TRUE |
| 6_dbb_hap3 | 2407346 - 2423143 | F - 45.45% | TRUE | TRUE |
| 6_dbb_hap3 | 2407346 - 2423143 | | TRUE | TRUE |
| 6_qbl_hap6 | 1266664 - 1270636 | T - 66.67% | TRUE | TRUE |
| 6_qbl_hap6 | 1266664 - 1270636 | T - 66.67% | TRUE | TRUE |
| 6_qbl_hap6 | 1266664 - 1270636 | F - 33.33% | FALSE | TRUE |
| 6_qbl_hap6 | 1266664 - 1270636 | | TRUE | TRUE |
| 6_qbl_hap6 | 1266664 - 1270636 | | TRUE | TRUE |
| 6_qbl_hap6 | 1266664 - 1270636 | F - 33.33% | TRUE | TRUE |
| 1 | 63249777 - 63339980 | F - 11.11% | FALSE | TRUE |
| 1 | 63249777 - 63339980 | | FALSE | TRUE |
| 1 | 44457172 - 44497139 | | FALSE | TRUE |
| 1 | 44457172 - 44497139 | F - 4.76% | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|------|
| 1 | 44457172 - 44497139 | | TRUE | TRUE |
| 1 | 44457172 - 44497139 | F - 9.52% | FALSE | TRUE |
| 1 | 44457172 - 44497139 | | TRUE | TRUE |
| 1 | 44457172 - 44497139 | | FALSE | TRUE |
| 1 | 44457172 - 44497139 | | TRUE | TRUE |
| 1 | 44457172 - 44497139 | | FALSE | TRUE |
| 2 | 9778901 - 9789568 | T - 100.00% | TRUE | TRUE |
| 2 | 9778901 - 9789568 | | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 30.77% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 23.08% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 7.69% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 23.08% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 23.08% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 7.69% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 7.69% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | F - 7.69% | FALSE | TRUE |
| 2 | 44589043 - 44999731 | F - 7.69% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | T - 61.54% | TRUE | TRUE |
| 2 | 44589043 - 44999731 | | TRUE | TRUE |
| 2 | 201170604 - 201346986 | F - 18.92% | TRUE | TRUE |
| 2 | 201170604 - 201346986 | | FALSE | TRUE |
| 2 | 201170604 - 201346986 | | TRUE | TRUE |
| 2 | 20110021 - 20189892 | T - 58.33% | TRUE | TRUE |
| 2 | 20110021 - 20189892 | | TRUE | TRUE |
| 2 | 85825670 - 85830319 | | TRUE | TRUE |
| 2 | 85825670 - 85830319 | | FALSE | TRUE |
| 2 | 85825670 - 85830319 | T - 56.25% | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 43.48% | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 43.48% | TRUE | TRUE |
| 2 | 175664042 - 175870107 | | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 34.78% | FALSE | TRUE |
| 2 | 175664042 - 175870107 | | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 4.35% | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 4.35% | FALSE | TRUE |
| 2 | 175664042 - 175870107 | F - 30.43% | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 30.43% | TRUE | TRUE |
| 2 | 175664042 - 175870107 | F - 4.35% | FALSE | TRUE |
| 2 | 175664042 - 175870107 | F - 4.35% | FALSE | TRUE |
| 2 | 175664042 - 175870107 | F - 8.70% | TRUE | TRUE |
| 2 | 202564986 - 202645912 | T - 50.00% | TRUE | TRUE |
| 2 | 202564986 - 202645912 | | TRUE | TRUE |
| 2 | 202564986 - 202645912 | | FALSE | TRUE |
| 2 | 202564986 - 202645912 | | TRUE | TRUE |
| 2 | 202564986 - 202645912 | F - 44.44% | TRUE | TRUE |
| 2 | 202564986 - 202645912 | | TRUE | TRUE |
| 2 | 202564986 - 202645912 | | FALSE | TRUE |
| 2 | 202564986 - 202645912 | | FALSE | TRUE |
| 2 | 202564986 - 202645912 | | TRUE | TRUE |
| 2 | 234384165 - 234475428 | | FALSE | TRUE |
| 2 | 234384165 - 234475428 | F - 4.35% | FALSE | TRUE |
| 2 | 234384165 - 234475428 | F - 26.09% | TRUE | TRUE |
| 2 | 61372243 - 61391964 | F - 28.57% | TRUE | TRUE |
| 2 | 61372243 - 61391964 | | TRUE | TRUE |
| 2 | 61372243 - 61391964 | F - 42.86% | TRUE | TRUE |
| 2 | 61372243 - 61391964 | | FALSE | TRUE |
| 3 | 119187785 - 119213555 | T - 61.54% | TRUE | TRUE |
| 3 | 119187785 - 119213555 | | FALSE | TRUE |
| 3 | 119187785 - 119213555 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 3 | 135074909 - 135158730 | F - 33.33% | TRUE | TRUE |
| 3 | 135074909 - 135158730 | | TRUE | TRUE |
| 3 | 135074909 - 135158730 | T - 100.00% | TRUE | TRUE |
| 3 | 42749761 - 42814745 | | FALSE | TRUE |
| 3 | 42749761 - 42814745 | F - 33.33% | FALSE | TRUE |
| 4 | 41361624 - 41702061 | | FALSE | TRUE |
| 4 | 41361624 - 41702061 | | FALSE | TRUE |
| 4 | 41361624 - 41702061 | | TRUE | TRUE |
| 4 | 41361624 - 41702061 | F - 21.62% | TRUE | TRUE |
| 4 | 41361624 - 41702061 | F - 2.70% | TRUE | TRUE |
| 4 | 41361624 - 41702061 | | FALSE | TRUE |
| 4 | 184560788 - 184580378 | | TRUE | TRUE |
| 4 | 184560788 - 184580378 | F - 7.69% | FALSE | TRUE |
| 5 | 49961733 - 50142356 | | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 13.89% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 2.78% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 2.78% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | | TRUE | TRUE |
| 5 | 49961733 - 50142356 | | TRUE | TRUE |
| 5 | 49961733 - 50142356 | | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 2.78% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 5.56% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 2.78% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | F - 2.78% | TRUE | TRUE |
| 5 | 49961733 - 50142356 | | FALSE | TRUE |
| 5 | 49961733 - 50142356 | | TRUE | TRUE |
| 5 | 133860003 - 133918918 | F - 5.56% | TRUE | TRUE |
| 5 | 133860003 - 133918918 | F - 11.11% | FALSE | TRUE |
| 5 | 133860003 - 133918918 | F - 33.33% | FALSE | TRUE |
| 5 | 133860003 - 133918918 | F - 11.11% | TRUE | FALSE |
| 5 | 133860003 - 133918918 | F - 5.56% | TRUE | TRUE |
| 5 | 133860003 - 133918918 | | FALSE | TRUE |
| 5 | 133860003 - 133918918 | | TRUE | TRUE |
| 5 | 32354456 - 32444867 | | FALSE | TRUE |
| 5 | 32354456 - 32444867 | F - 6.67% | FALSE | TRUE |
| 5 | 139712428 - 139726216 | | TRUE | TRUE |
| 5 | 139712428 - 139726216 | F - 14.29% | TRUE | TRUE |
| 6 | 43573053 - 43596936 | | FALSE | TRUE |
| 6 | 43573053 - 43596936 | F - 5.88% | TRUE | TRUE |
| 7 | 27135266 - 27139877 | | FALSE | TRUE |
| 7 | 27135266 - 27139877 | T - 57.14% | TRUE | TRUE |
| 7 | 27135266 - 27139877 | T - 85.71% | TRUE | TRUE |
| 7 | 27135266 - 27139877 | T - 71.43% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 3.13% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 9.38% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 6.25% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 12.50% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | T - 62.50% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 12.50% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 9.38% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 6.25% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 9.38% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 9.38% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 3.13% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 12.50% | FALSE | TRUE |
| 7 | 50657760 - 50861159 | F - 3.13% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 12.50% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | F - 3.13% | TRUE | TRUE |
| 7 | 50657760 - 50861159 | | FALSE | TRUE |
| 7 | 50657760 - 50861159 | F - 3.13% | FALSE | TRUE |
| 7 | 50657760 - 50861159 | F - 3.13% | FALSE | TRUE |
| 7 | 50657760 - 50861159 | | TRUE | TRUE |
| 7 | 99775186 - 99812010 | F - 37.93% | TRUE | TRUE |
| 7 | 99775186 - 99812010 | | TRUE | TRUE |
| 7 | 99775186 - 99812010 | F - 48.28% | TRUE | TRUE |
| 7 | 99775186 - 99812010 | F - 41.38% | TRUE | TRUE |
| 7 | 99775186 - 99812010 | | FALSE | TRUE |
| 7 | 99775186 - 99812010 | | FALSE | TRUE |
| 7 | 99775186 - 99812010 | | FALSE | TRUE |
| 8 | 12940870 - 13373167 | F - 30.43% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 34.78% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 4.35% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | | TRUE | TRUE |
| 8 | 12940870 - 13373167 | | TRUE | TRUE |
| 8 | 12940870 - 13373167 | | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 4.35% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 4.35% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 30.43% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | | FALSE | TRUE |
| 8 | 12940870 - 13373167 | F - 21.74% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 26.09% | TRUE | TRUE |
| 8 | 12940870 - 13373167 | | TRUE | TRUE |
| 8 | 12940870 - 13373167 | | TRUE | TRUE |
| 8 | 12940870 - 13373167 | F - 4.35% | FALSE | TRUE |
| 9 | 34457412 - 34520982 | | FALSE | TRUE |
| 9 | 34457412 - 34520982 | T - 71.43% | FALSE | TRUE |
| 9 | 34457412 - 34520982 | | FALSE | TRUE |
| 9 | 34457412 - 34520982 | | FALSE | TRUE |
| 9 | 34457412 - 34520982 | | TRUE | TRUE |
| 9 | 34457412 - 34520982 | | FALSE | TRUE |
| X | 43514158 - 43606068 | T - 75.00% | TRUE | TRUE |
| X | 43514158 - 43606068 | F - 12.50% | TRUE | TRUE |
| X | 43514158 - 43606068 | | TRUE | FALSE |
| X | 43514158 - 43606068 | | TRUE | TRUE |
| X | 43514158 - 43606068 | T - 50.00% | FALSE | TRUE |
| X | 43514158 - 43606068 | F - 12.50% | TRUE | TRUE |
| X | 43514158 - 43606068 | F - 37.50% | TRUE | TRUE |
| X | 2137555 - 2420846 | F - 15.00% | TRUE | TRUE |
| X | 2137555 - 2420846 | | TRUE | TRUE |
| X | 2137555 - 2420846 | | TRUE | TRUE |
| X | 2137555 - 2420846 | | TRUE | TRUE |
| X | 2137555 - 2420846 | F - 35.00% | TRUE | TRUE |
| X | 2137555 - 2420846 | | TRUE | TRUE |
| X | 2137555 - 2420846 | | TRUE | TRUE |
| 10 | 97889472 - 97923517 | T - 83.33% | TRUE | TRUE |
| 10 | 97889472 - 97923517 | | FALSE | TRUE |
| 10 | 134779038 - 134789858 | T - 100.00% | FALSE | TRUE |
| 10 | 134779038 - 134789858 | | FALSE | TRUE |
| 11 | 12297627 - 12380691 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 11 | 12297627 - 12380691 | F - 33.33% | TRUE | TRUE |
| 11 | 86666663 - 86712001 | T - 50.00% | TRUE | TRUE |
| 11 | 86666663 - 86712001 | T - 50.00% | TRUE | TRUE |
| 11 | 86666663 - 86712001 | | TRUE | TRUE |
| 12 | 22852793 - 23327057 | F - 20.00% | FALSE | TRUE |
| 12 | 22852793 - 23327057 | | FALSE | TRUE |
| 12 | 107712190 - 108053419 | | TRUE | TRUE |
| 12 | 107712190 - 108053419 | F - 42.86% | TRUE | TRUE |
| 12 | 107712190 - 108053419 | F - 7.14% | TRUE | TRUE |
| 12 | 107712190 - 108053419 | T - 57.14% | TRUE | TRUE |
| 12 | 107712190 - 108053419 | F - 14.29% | TRUE | TRUE |
| 12 | 107712190 - 108053419 | T - 71.43% | TRUE | TRUE |
| 12 | 107712190 - 108053419 | F - 21.43% | TRUE | TRUE |
| 12 | 107712190 - 108053419 | | FALSE | TRUE |
| 12 | 51373318 - 51422349 | F - 14.29% | TRUE | TRUE |
| 12 | 51373318 - 51422349 | F - 23.81% | TRUE | TRUE |
| 12 | 51373318 - 51422349 | | FALSE | TRUE |
| 12 | 53183469 - 53189901 | T - 100.00% | FALSE | TRUE |
| 12 | 53183469 - 53189901 | | FALSE | TRUE |
| 14 | 31494312 - 31565656 | | FALSE | TRUE |
| 14 | 31494312 - 31565656 | | FALSE | TRUE |
| 14 | 31494312 - 31565656 | F - 7.69% | FALSE | TRUE |
| 15 | 76135622 - 76193419 | | TRUE | TRUE |
| 15 | 76135622 - 76193419 | T - 100.00% | TRUE | TRUE |
| 15 | 76135622 - 76193419 | F - 25.00% | FALSE | TRUE |
| 15 | 28949905 - 28957567 | T - 100.00% | TRUE | TRUE |
| 15 | 28949905 - 28957567 | | FALSE | TRUE |
| 15 | 28949905 - 28957567 | | TRUE | TRUE |
| 15 | 50569389 - 50647605 | | TRUE | TRUE |
| 15 | 50569389 - 50647605 | | FALSE | TRUE |
| 15 | 50569389 - 50647605 | T - 52.94% | TRUE | TRUE |
| 15 | 50569389 - 50647605 | | TRUE | TRUE |
| 15 | 50569389 - 50647605 | | TRUE | TRUE |
| 15 | 32322691 - 32464722 | | FALSE | TRUE |
| 15 | 32322691 - 32464722 | T - 52.94% | FALSE | TRUE |
| 16 | 90122974 - 90142338 | | FALSE | TRUE |
| 16 | 90122974 - 90142338 | F - 25.00% | FALSE | TRUE |
| 16 | 90122974 - 90142338 | T - 100.00% | FALSE | TRUE |
| 16 | 90122974 - 90142338 | | FALSE | TRUE |
| 17 | 29361032 - 29362672 | T - 100.00% | TRUE | TRUE |
| 17 | 29361032 - 29362672 | | FALSE | TRUE |
| 17 | 29361032 - 29362672 | T - 100.00% | TRUE | TRUE |
| 17 | 17746822 - 17875784 | F - 11.11% | TRUE | TRUE |
| 17 | 17746822 - 17875784 | | FALSE | TRUE |
| 18 | 21718942 - 21741564 | T - 64.29% | TRUE | TRUE |
| 18 | 21718942 - 21741564 | T - 100.00% | TRUE | TRUE |
| 18 | 21718942 - 21741564 | | TRUE | TRUE |
| 18 | 21718942 - 21741564 | T - 78.57% | TRUE | TRUE |
| 18 | 21718942 - 21741564 | T - 64.29% | TRUE | TRUE |
| 18 | 21718942 - 21741564 | | TRUE | TRUE |
| 18 | 21718942 - 21741564 | T - 85.71% | TRUE | TRUE |
| 18 | 21718942 - 21741564 | F - 42.86% | TRUE | TRUE |
| 19 | 18794425 - 18893143 | T - 71.43% | TRUE | TRUE |
| 19 | 18794425 - 18893143 | | FALSE | TRUE |
| 20 | 56223448 - 56286592 | F - 38.89% | TRUE | TRUE |
| 20 | 56223448 - 56286592 | | TRUE | TRUE |
| 20 | 56223448 - 56286592 | F - 16.67% | TRUE | TRUE |
| 20 | 56223448 - 56286592 | F - 11.11% | TRUE | FALSE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 20 | 56223448 - 56286592 | | TRUE | TRUE |
| 20 | 56223448 - 56286592 | F - 11.11% | TRUE | TRUE |
| 20 | 56223448 - 56286592 | F - 11.11% | TRUE | TRUE |
| 20 | 56223448 - 56286592 | | FALSE | TRUE |
| 20 | 56223448 - 56286592 | F - 5.56% | TRUE | TRUE |
| 22 | 27617310 - 27622760 | T - 100.00% | TRUE | TRUE |
| 22 | 27617310 - 27622760 | T - 66.67% | TRUE | TRUE |
| 22 | 27617310 - 27622760 | | TRUE | TRUE |
| 22 | 42896585 - 42908566 | | TRUE | TRUE |
| 22 | 42896585 - 42908566 | | TRUE | TRUE |
| 22 | 42896585 - 42908566 | T - 80.00% | TRUE | TRUE |
| 22 | 42896585 - 42908566 | | TRUE | TRUE |
| 1 | 9908376 - 9910212 | T - 100.00% | TRUE | TRUE |
| 1 | 9908376 - 9910212 | | FALSE | TRUE |
| 1 | 206643586 - 206670223 | T - 69.23% | TRUE | TRUE |
| 1 | 206643586 - 206670223 | | TRUE | TRUE |
| 1 | 206643586 - 206670223 | | FALSE | TRUE |
| 1 | 39987952 - 40025370 | | TRUE | TRUE |
| 1 | 39987952 - 40025370 | | FALSE | TRUE |
| 1 | 39987952 - 40025370 | | TRUE | TRUE |
| 1 | 39987952 - 40025370 | T - 50.00% | TRUE | TRUE |
| 1 | 39987952 - 40025370 | F - 37.50% | TRUE | TRUE |
| 2 | 279561 - 288851 | | TRUE | TRUE |
| 2 | 279561 - 288851 | F - 9.09% | TRUE | TRUE |
| 2 | 279561 - 288851 | | TRUE | TRUE |
| 2 | 210885435 - 211036107 | F - 7.14% | TRUE | TRUE |
| 2 | 210885435 - 211036107 | F - 7.14% | TRUE | TRUE |
| 2 | 210885435 - 211036107 | | TRUE | TRUE |
| 3 | 140660662 - 140698785 | T - 50.00% | TRUE | TRUE |
| 3 | 140660662 - 140698785 | | TRUE | TRUE |
| 3 | 140660662 - 140698785 | F - 5.00% | TRUE | TRUE |
| 3 | 182971032 - 183016292 | F - 11.11% | FALSE | TRUE |
| 3 | 182971032 - 183016292 | F - 38.89% | TRUE | TRUE |
| 3 | 182971032 - 183016292 | | TRUE | TRUE |
| 3 | 182971032 - 183016292 | | TRUE | TRUE |
| 3 | 182971032 - 183016292 | F - 11.11% | FALSE | TRUE |
| 3 | 184053714 - 184064063 | F - 14.29% | TRUE | TRUE |
| 3 | 184053714 - 184064063 | | FALSE | TRUE |
| 3 | 153990335 - 154042286 | T - 52.94% | TRUE | TRUE |
| 3 | 153990335 - 154042286 | F - 5.88% | TRUE | TRUE |
| 3 | 153990335 - 154042286 | | TRUE | TRUE |
| 3 | 153990335 - 154042286 | | TRUE | TRUE |
| 3 | 153990335 - 154042286 | | FALSE | TRUE |
| 3 | 187439165 - 187463515 | F - 6.25% | TRUE | TRUE |
| 3 | 187439165 - 187463515 | | TRUE | TRUE |
| 4 | 24797085 - 24802467 | T - 75.00% | TRUE | TRUE |
| 4 | 24797085 - 24802467 | | TRUE | TRUE |
| 4 | 24797085 - 24802467 | T - 100.00% | TRUE | TRUE |
| 4 | 24797085 - 24802467 | T - 75.00% | FALSE | TRUE |
| 4 | 80822303 - 81046608 | F - 26.67% | TRUE | TRUE |
| 4 | 80822303 - 81046608 | F - 20.00% | TRUE | TRUE |
| 4 | 80822303 - 81046608 | F - 6.67% | TRUE | TRUE |
| 4 | 80822303 - 81046608 | | TRUE | TRUE |
| 4 | 100869243 - 100871547 | T - 66.67% | TRUE | TRUE |
| 4 | 100869243 - 100871547 | F - 22.22% | TRUE | TRUE |
| 4 | 100869243 - 100871547 | | TRUE | TRUE |
| 4 | 100869243 - 100871547 | F - 22.22% | TRUE | TRUE |
| 5 | 33523640 - 33892297 | T - 66.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 5 | 33523640 - 33892297 | T - 66.67% | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | T - 66.67% | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | FALSE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | F - 44.44% | TRUE | TRUE |
| 5 | 33523640 - 33892297 | | TRUE | TRUE |
| 5 | 33523640 - 33892297 | F - 11.11% | FALSE | TRUE |
| 5 | 33523640 - 33892297 | F - 11.11% | TRUE | TRUE |
| 5 | 150309998 - 150326146 | F - 25.00% | FALSE | TRUE |
| 5 | 150309998 - 150326146 | | FALSE | TRUE |
| 6 | 31644461 - 31651817 | F - 8.33% | TRUE | TRUE |
| 6 | 31644461 - 31651817 | | TRUE | TRUE |
| 6 | 31644461 - 31651817 | F - 16.67% | TRUE | TRUE |
| 6 | 31644461 - 31651817 | F - 16.67% | FALSE | TRUE |
| 6 | 31644461 - 31651817 | | TRUE | TRUE |
| 6 | 31644461 - 31651817 | F - 33.33% | TRUE | TRUE |
| 6 | 31644461 - 31651817 | F - 41.67% | FALSE | TRUE |
| 6 | 31644461 - 31651817 | F - 8.33% | FALSE | TRUE |
| 6 | 158530536 - 158589312 | F - 14.29% | TRUE | TRUE |
| 6 | 158530536 - 158589312 | | TRUE | TRUE |
| 7 | 48211055 - 48687092 | | FALSE | TRUE |
| 7 | 48211055 - 48687092 | F - 25.00% | TRUE | TRUE |
| 7 | 48211055 - 48687092 | | FALSE | TRUE |
| 7 | 48211055 - 48687092 | | FALSE | TRUE |
| 7 | 48211055 - 48687092 | F - 33.33% | FALSE | TRUE |
| 7 | 48211055 - 48687092 | | FALSE | TRUE |
| 7 | 48211055 - 48687092 | | FALSE | TRUE |
| 7 | 48211055 - 48687092 | F - 33.33% | FALSE | TRUE |
| 7 | 75024337 - 75034896 | T - 87.50% | TRUE | TRUE |
| 7 | 75024337 - 75034896 | F - 25.00% | TRUE | TRUE |
| 7 | 75024337 - 75034896 | | FALSE | TRUE |
| 7 | 75024337 - 75034896 | F - 12.50% | TRUE | TRUE |
| 8 | 104152921 - 104242533 | F - 7.69% | TRUE | TRUE |
| 8 | 104152921 - 104242533 | F - 46.15% | TRUE | TRUE |
| 8 | 104152921 - 104242533 | F - 7.69% | FALSE | TRUE |
| 8 | 104152921 - 104242533 | F - 7.69% | FALSE | TRUE |
| 8 | 104152921 - 104242533 | F - 23.08% | FALSE | TRUE |
| 8 | 104152921 - 104242533 | | FALSE | TRUE |
| 8 | 30535580 - 30585486 | | TRUE | TRUE |
| 8 | 30535580 - 30585486 | T - 84.62% | TRUE | TRUE |
| 9 | 86890372 - 86983413 | | FALSE | TRUE |
| 9 | 86890372 - 86983413 | | TRUE | TRUE |
| 9 | 86890372 - 86983413 | T - 77.78% | TRUE | TRUE |
| 9 | 86890372 - 86983413 | | TRUE | TRUE |
| 9 | 86890372 - 86983413 | | FALSE | TRUE |
| X | 48379546 - 48387104 | T - 60.00% | TRUE | TRUE |
| X | 48379546 - 48387104 | | TRUE | TRUE |
| X | 48379546 - 48387104 | | TRUE | TRUE |
| X | 48379546 - 48387104 | F - 10.00% | FALSE | TRUE |
| X | 48379546 - 48387104 | F - 20.00% | FALSE | TRUE |
| X | 48379546 - 48387104 | F - 10.00% | TRUE | TRUE |
| 12 | 7282795 - 7311541 | T - 77.78% | TRUE | TRUE |
| 12 | 7282795 - 7311541 | | FALSE | TRUE |

| | | | | |
|----|---------------------|-------------|-------|-------|
| 12 | 8834287 - 8935687 | F - 33.33% | TRUE | TRUE |
| 12 | 8834287 - 8935687 | | FALSE | TRUE |
| 12 | 8834287 - 8935687 | | TRUE | TRUE |
| 12 | 56078352 - 56106195 | | TRUE | TRUE |
| 12 | 56078352 - 56106195 | T - 87.50% | TRUE | TRUE |
| 12 | 56078352 - 56106195 | | FALSE | TRUE |
| 12 | 56078352 - 56106195 | | TRUE | TRUE |
| 12 | 56078352 - 56106195 | | FALSE | TRUE |
| 12 | 56078352 - 56106195 | | TRUE | TRUE |
| 12 | 56078352 - 56106195 | | FALSE | TRUE |
| 12 | 72003252 - 72057749 | F - 25.00% | TRUE | TRUE |
| 12 | 72003252 - 72057749 | | TRUE | TRUE |
| 12 | 72003252 - 72057749 | F - 37.50% | FALSE | TRUE |
| 14 | 27305934 - 27930810 | T - 66.67% | TRUE | TRUE |
| 14 | 27305934 - 27930810 | | FALSE | TRUE |
| 14 | 27305934 - 27930810 | | TRUE | TRUE |
| 14 | 27305934 - 27930810 | F - 33.33% | TRUE | TRUE |
| 14 | 27305934 - 27930810 | F - 33.33% | TRUE | TRUE |
| 14 | 27305934 - 27930810 | | TRUE | TRUE |
| 14 | 27305934 - 27930810 | | TRUE | TRUE |
| 14 | 27305934 - 27930810 | F - 33.33% | TRUE | TRUE |
| 14 | 27305934 - 27930810 | F - 33.33% | TRUE | TRUE |
| 16 | 75632247 - 75657221 | | FALSE | TRUE |
| 16 | 75632247 - 75657221 | | TRUE | TRUE |
| 16 | 75632247 - 75657221 | F - 20.00% | TRUE | TRUE |
| 17 | 1957448 - 1962981 | | TRUE | TRUE |
| 17 | 1957448 - 1962981 | T - 50.00% | TRUE | TRUE |
| 17 | 1957448 - 1962981 | F - 25.00% | TRUE | TRUE |
| 19 | 45174724 - 45187631 | F - 16.67% | TRUE | TRUE |
| 19 | 45174724 - 45187631 | | TRUE | TRUE |
| 19 | 45174724 - 45187631 | | TRUE | TRUE |
| 19 | 57019212 - 57040270 | T - 100.00% | TRUE | TRUE |
| 19 | 57019212 - 57040270 | | FALSE | TRUE |
| 19 | 3630179 - 3700477 | | FALSE | TRUE |
| 19 | 3630179 - 3700477 | | TRUE | TRUE |
| 19 | 3630179 - 3700477 | T - 100.00% | TRUE | TRUE |
| 20 | 33292094 - 33301243 | T - 71.43% | TRUE | TRUE |
| 20 | 33292094 - 33301243 | T - 57.14% | TRUE | TRUE |
| 20 | 33292094 - 33301243 | | TRUE | TRUE |
| 20 | 33292094 - 33301243 | | TRUE | TRUE |
| 21 | 44473301 - 44497053 | F - 8.00% | FALSE | TRUE |
| 21 | 44473301 - 44497053 | | FALSE | TRUE |
| 21 | 44473301 - 44497053 | | FALSE | TRUE |
| 22 | 23487513 - 23506537 | T - 50.00% | TRUE | TRUE |
| 22 | 23487513 - 23506537 | | FALSE | TRUE |
| 22 | 23487513 - 23506537 | | FALSE | TRUE |
| 22 | 23487513 - 23506537 | F - 37.50% | TRUE | TRUE |
| 22 | 23487513 - 23506537 | T - 75.00% | FALSE | TRUE |
| 22 | 23487513 - 23506537 | T - 87.50% | TRUE | TRUE |
| 22 | 23487513 - 23506537 | F - 37.50% | TRUE | TRUE |
| 1 | 52521797 - 52556388 | | TRUE | TRUE |
| 1 | 52521797 - 52556388 | F - 7.14% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | | TRUE | FALSE |
| 1 | 46505812 - 46642160 | | TRUE | TRUE |
| 1 | 46505812 - 46642160 | T - 66.67% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | F - 27.78% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | F - 11.11% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | F - 11.11% | TRUE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 46505812 - 46642160 | F - 22.22% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | | TRUE | TRUE |
| 1 | 46505812 - 46642160 | F - 5.56% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | F - 33.33% | TRUE | TRUE |
| 1 | 46505812 - 46642160 | F - 22.22% | TRUE | TRUE |
| 2 | 33172039 - 33624576 | | TRUE | FALSE |
| 2 | 33172039 - 33624576 | F - 24.00% | TRUE | TRUE |
| 2 | 33172039 - 33624576 | F - 20.00% | TRUE | TRUE |
| 2 | 33172039 - 33624576 | F - 20.00% | TRUE | TRUE |
| 2 | 33172039 - 33624576 | | TRUE | TRUE |
| 2 | 33172039 - 33624576 | | TRUE | TRUE |
| 2 | 33172039 - 33624576 | F - 20.00% | TRUE | TRUE |
| 2 | 33172039 - 33624576 | | TRUE | TRUE |
| 2 | 33172039 - 33624576 | F - 20.00% | TRUE | TRUE |
| 2 | 33172039 - 33624576 | | TRUE | TRUE |
| 2 | 33172039 - 33624576 | | FALSE | TRUE |
| 2 | 33172039 - 33624576 | | TRUE | TRUE |
| 2 | 119981384 - 120023228 | F - 13.33% | TRUE | TRUE |
| 2 | 119981384 - 120023228 | | TRUE | TRUE |
| 2 | 119981384 - 120023228 | F - 20.00% | TRUE | TRUE |
| 2 | 201980827 - 202037411 | | TRUE | TRUE |
| 2 | 201980827 - 202037411 | F - 2.13% | TRUE | TRUE |
| 2 | 201980827 - 202037411 | F - 2.13% | TRUE | TRUE |
| 2 | 28974506 - 29025806 | F - 33.33% | TRUE | TRUE |
| 2 | 28974506 - 29025806 | F - 6.67% | TRUE | TRUE |
| 2 | 28974506 - 29025806 | F - 13.33% | TRUE | TRUE |
| 2 | 28974506 - 29025806 | F - 6.67% | FALSE | TRUE |
| 2 | 28974506 - 29025806 | F - 6.67% | FALSE | TRUE |
| 2 | 28974506 - 29025806 | T - 53.33% | TRUE | TRUE |
| 2 | 28974506 - 29025806 | | TRUE | TRUE |
| 2 | 28974506 - 29025806 | | TRUE | TRUE |
| 2 | 28974506 - 29025806 | | FALSE | TRUE |
| 2 | 238875469 - 238951423 | F - 3.57% | TRUE | TRUE |
| 2 | 238875469 - 238951423 | F - 7.14% | FALSE | TRUE |
| 2 | 238875469 - 238951423 | | FALSE | TRUE |
| 2 | 238875469 - 238951423 | | TRUE | TRUE |
| 3 | 162442527 - 162949937 | | TRUE | TRUE |
| 3 | 162442527 - 162949937 | T - 50.00% | TRUE | TRUE |
| 3 | 162442527 - 162949937 | T - 50.00% | TRUE | TRUE |
| 3 | 124801480 - 124931708 | | FALSE | TRUE |
| 3 | 124801480 - 124931708 | F - 34.78% | TRUE | TRUE |
| 3 | 124801480 - 124931708 | F - 47.83% | TRUE | TRUE |
| 3 | 124801480 - 124931708 | F - 39.13% | FALSE | TRUE |
| 3 | 124801480 - 124931708 | F - 8.70% | TRUE | TRUE |
| 3 | 124801480 - 124931708 | F - 8.70% | FALSE | TRUE |
| 5 | 141016517 - 141020644 | | FALSE | TRUE |
| 5 | 141016517 - 141020644 | T - 100.00% | FALSE | TRUE |
| 5 | 176883609 - 176901402 | F - 5.26% | TRUE | TRUE |
| 5 | 176883609 - 176901402 | | TRUE | TRUE |
| 5 | 176883609 - 176901402 | | FALSE | TRUE |
| 5 | 176883609 - 176901402 | | TRUE | TRUE |
| 6 | 15523032 - 15663289 | F - 44.44% | FALSE | TRUE |
| 6 | 15523032 - 15663289 | | FALSE | TRUE |
| 7 | 142413074 - 142426272 | | FALSE | TRUE |
| 7 | 142413074 - 142426272 | | TRUE | TRUE |
| 7 | 142413074 - 142426272 | T - 60.00% | TRUE | TRUE |
| 7 | 72726535 - 72742085 | | FALSE | TRUE |
| 7 | 72726535 - 72742085 | F - 12.50% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 7 | 140424943 - 140624564 | | TRUE | TRUE |
| 7 | 140424943 - 140624564 | T - 62.50% | TRUE | TRUE |
| 7 | 140424943 - 140624564 | | TRUE | TRUE |
| 7 | 140424943 - 140624564 | | TRUE | TRUE |
| 8 | 101269288 - 101348446 | | FALSE | TRUE |
| 8 | 101269288 - 101348446 | T - 55.56% | TRUE | TRUE |
| 8 | 101269288 - 101348446 | | FALSE | TRUE |
| 8 | 101269288 - 101348446 | F - 5.56% | TRUE | TRUE |
| 8 | 101269288 - 101348446 | F - 27.78% | TRUE | TRUE |
| 8 | 101269288 - 101348446 | F - 44.44% | TRUE | TRUE |
| 8 | 101269288 - 101348446 | F - 16.67% | FALSE | TRUE |
| 8 | 101269288 - 101348446 | F - 27.78% | TRUE | TRUE |
| 8 | 101269288 - 101348446 | F - 11.11% | TRUE | TRUE |
| 9 | 133454352 - 133513739 | F - 25.00% | FALSE | TRUE |
| 9 | 133454352 - 133513739 | | TRUE | TRUE |
| 10 | 102246399 - 102289757 | F - 5.26% | TRUE | TRUE |
| 10 | 102246399 - 102289757 | F - 5.26% | TRUE | TRUE |
| 10 | 102246399 - 102289757 | F - 2.63% | TRUE | TRUE |
| 10 | 102246399 - 102289757 | F - 2.63% | TRUE | TRUE |
| 10 | 102246399 - 102289757 | | FALSE | TRUE |
| 10 | 127389005 - 127408135 | T - 66.67% | FALSE | TRUE |
| 10 | 127389005 - 127408135 | F - 33.33% | FALSE | TRUE |
| 10 | 127389005 - 127408135 | F - 33.33% | FALSE | TRUE |
| 10 | 127389005 - 127408135 | | FALSE | TRUE |
| 10 | 127389005 - 127408135 | F - 33.33% | FALSE | TRUE |
| 11 | 44490014 - 44491979 | T - 100.00% | TRUE | TRUE |
| 11 | 44490014 - 44491979 | | TRUE | TRUE |
| 11 | 65769550 - 65771620 | F - 22.22% | TRUE | TRUE |
| 11 | 65769550 - 65771620 | | FALSE | TRUE |
| 11 | 65769550 - 65771620 | | FALSE | TRUE |
| 11 | 65769550 - 65771620 | F - 11.11% | TRUE | TRUE |
| 12 | 104849073 - 105155792 | | TRUE | TRUE |
| 12 | 104849073 - 105155792 | F - 37.50% | TRUE | TRUE |
| 12 | 104849073 - 105155792 | T - 87.50% | TRUE | TRUE |
| 12 | 104849073 - 105155792 | | TRUE | TRUE |
| 12 | 106457118 - 106533811 | | TRUE | TRUE |
| 12 | 106457118 - 106533811 | T - 60.00% | TRUE | TRUE |
| 12 | 106457118 - 106533811 | | TRUE | TRUE |
| 12 | 109991521 - 110011679 | F - 37.50% | TRUE | TRUE |
| 12 | 109991521 - 110011679 | | FALSE | TRUE |
| 12 | 109991521 - 110011679 | | TRUE | TRUE |
| 14 | 39218543 - 39417477 | T - 100.00% | TRUE | TRUE |
| 14 | 39218543 - 39417477 | T - 60.00% | TRUE | TRUE |
| 14 | 39218543 - 39417477 | | TRUE | TRUE |
| 15 | 50849352 - 50979012 | T - 71.43% | TRUE | TRUE |
| 15 | 50849352 - 50979012 | | TRUE | TRUE |
| 15 | 100330361 - 100347132 | | FALSE | TRUE |
| 15 | 100330361 - 100347132 | F - 33.33% | FALSE | TRUE |
| 16 | 72127615 - 72146811 | | FALSE | TRUE |
| 16 | 72127615 - 72146811 | F - 40.00% | FALSE | TRUE |
| 17 | 6658794 - 6678964 | F - 23.08% | TRUE | TRUE |
| 17 | 6658794 - 6678964 | T - 61.54% | TRUE | TRUE |
| 17 | 6658794 - 6678964 | | TRUE | TRUE |
| 17 | 6658794 - 6678964 | F - 7.69% | TRUE | TRUE |
| 17 | 6658794 - 6678964 | | TRUE | TRUE |
| 17 | 6658794 - 6678964 | F - 15.38% | TRUE | TRUE |
| 17 | 6658794 - 6678964 | F - 7.69% | TRUE | TRUE |
| 17 | 6658794 - 6678964 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 17 | 6658794 - 6678964 | F - 7.69% | FALSE | TRUE |
| 17 | 6658794 - 6678964 | | FALSE | TRUE |
| 17 | 62850430 - 62915586 | F - 18.18% | TRUE | TRUE |
| 17 | 62850430 - 62915586 | | FALSE | TRUE |
| 17 | 62850430 - 62915586 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | F - 33.33% | TRUE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | F - 25.00% | TRUE | TRUE |
| 18 | 10670238 - 11148761 | F - 8.33% | FALSE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | | TRUE | TRUE |
| 18 | 10670238 - 11148761 | F - 16.67% | TRUE | TRUE |
| 19 | 35988119 - 36004560 | F - 3.57% | FALSE | TRUE |
| 19 | 35988119 - 36004560 | F - 9.52% | FALSE | TRUE |
| 19 | 35988119 - 36004560 | F - 1.19% | TRUE | TRUE |
| 19 | 35988119 - 36004560 | | FALSE | TRUE |
| 19 | 35988119 - 36004560 | | FALSE | TRUE |
| 19 | 35988119 - 36004560 | | FALSE | TRUE |
| 19 | 35988119 - 36004560 | F - 17.86% | TRUE | TRUE |
| 19 | 35988119 - 36004560 | | TRUE | TRUE |
| 19 | 35988119 - 36004560 | F - 27.38% | FALSE | TRUE |
| 21 | 38435146 - 38445470 | F - 7.69% | FALSE | TRUE |
| 21 | 38435146 - 38445470 | | FALSE | TRUE |
| 21 | 38435146 - 38445470 | F - 7.69% | FALSE | TRUE |
| 21 | 38435146 - 38445470 | | TRUE | TRUE |
| 21 | 38435146 - 38445470 | | TRUE | TRUE |
| 6_cox_hap2 | 1310635 - 1314804 | | TRUE | TRUE |
| 6_cox_hap2 | 1310635 - 1314804 | T - 57.14% | TRUE | TRUE |
| 6_qbl_hap6 | 1095329 - 1099503 | | TRUE | TRUE |
| 6_qbl_hap6 | 1095329 - 1099503 | T - 57.14% | TRUE | TRUE |
| 1 | 78354198 - 78409580 | T - 89.47% | TRUE | TRUE |
| 1 | 78354198 - 78409580 | T - 52.63% | TRUE | TRUE |
| 1 | 78354198 - 78409580 | F - 10.53% | TRUE | FALSE |
| 1 | 78354198 - 78409580 | | TRUE | TRUE |
| 1 | 78354198 - 78409580 | F - 5.26% | TRUE | FALSE |
| 1 | 78354198 - 78409580 | F - 36.84% | TRUE | TRUE |
| 1 | 78354198 - 78409580 | F - 5.26% | TRUE | TRUE |
| 1 | 78354198 - 78409580 | F - 5.26% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | F - 28.57% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | F - 14.29% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | F - 14.29% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | F - 14.29% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | F - 28.57% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | | TRUE | TRUE |
| 1 | 169074935 - 169101960 | F - 14.29% | TRUE | TRUE |
| 1 | 169074935 - 169101960 | | FALSE | TRUE |
| 1 | 182567758 - 182573548 | T - 100.00% | TRUE | TRUE |
| 1 | 182567758 - 182573548 | | FALSE | TRUE |
| 1 | 182567758 - 182573548 | | FALSE | TRUE |
| 1 | 186280786 - 186344864 | F - 16.67% | TRUE | TRUE |
| 1 | 186280786 - 186344864 | | TRUE | TRUE |
| 1 | 186280786 - 186344864 | | TRUE | TRUE |
| 1 | 186280786 - 186344864 | | TRUE | TRUE |
| 1 | 186280786 - 186344864 | | FALSE | TRUE |

| | | | | |
|---|-----------------------|-------------|-------|-------|
| 1 | 231041987 - 231114621 | | TRUE | TRUE |
| 1 | 231041987 - 231114621 | | FALSE | TRUE |
| 1 | 231041987 - 231114621 | F - 7.14% | TRUE | TRUE |
| 2 | 38150330 - 38294285 | | TRUE | TRUE |
| 2 | 38150330 - 38294285 | F - 10.00% | TRUE | TRUE |
| 2 | 38150330 - 38294285 | | FALSE | TRUE |
| 2 | 38150330 - 38294285 | | TRUE | TRUE |
| 2 | 48756522 - 49003656 | F - 23.53% | TRUE | TRUE |
| 2 | 48756522 - 49003656 | F - 14.71% | TRUE | TRUE |
| 2 | 48756522 - 49003656 | | TRUE | TRUE |
| 2 | 48756522 - 49003656 | T - 52.94% | TRUE | TRUE |
| 2 | 48756522 - 49003656 | | TRUE | TRUE |
| 2 | 163027194 - 163101661 | F - 5.56% | TRUE | FALSE |
| 2 | 163027194 - 163101661 | F - 5.56% | FALSE | TRUE |
| 2 | 163027194 - 163101661 | F - 22.22% | TRUE | FALSE |
| 2 | 163027194 - 163101661 | | FALSE | TRUE |
| 2 | 163027194 - 163101661 | F - 5.56% | FALSE | TRUE |
| 2 | 163027194 - 163101661 | F - 16.67% | FALSE | TRUE |
| 2 | 163027194 - 163101661 | | FALSE | TRUE |
| 2 | 163027194 - 163101661 | | FALSE | TRUE |
| 2 | 163027194 - 163101661 | F - 5.56% | TRUE | TRUE |
| 2 | 163027194 - 163101661 | | FALSE | TRUE |
| 2 | 180306709 - 180726232 | T - 66.67% | TRUE | FALSE |
| 2 | 180306709 - 180726232 | F - 23.81% | FALSE | TRUE |
| 2 | 180306709 - 180726232 | F - 4.76% | FALSE | TRUE |
| 2 | 180306709 - 180726232 | | TRUE | TRUE |
| 2 | 180306709 - 180726232 | | FALSE | TRUE |
| 2 | 180306709 - 180726232 | | FALSE | TRUE |
| 2 | 180306709 - 180726232 | F - 4.76% | FALSE | TRUE |
| 3 | 27844253 - 27932792 | | TRUE | TRUE |
| 3 | 27844253 - 27932792 | F - 33.33% | TRUE | TRUE |
| 3 | 27844253 - 27932792 | T - 66.67% | TRUE | TRUE |
| 3 | 39448180 - 39454032 | | TRUE | TRUE |
| 3 | 39448180 - 39454032 | T - 65.63% | TRUE | TRUE |
| 5 | 31532373 - 31555165 | F - 6.25% | TRUE | TRUE |
| 5 | 31532373 - 31555165 | T - 68.75% | TRUE | TRUE |
| 5 | 31532373 - 31555165 | | TRUE | TRUE |
| 5 | 31532373 - 31555165 | F - 6.25% | TRUE | TRUE |
| 5 | 31532373 - 31555165 | F - 6.25% | FALSE | TRUE |
| 6 | 74123238 - 74162043 | T - 100.00% | FALSE | TRUE |
| 6 | 74123238 - 74162043 | | FALSE | TRUE |
| 7 | 77166415 - 77269388 | F - 25.00% | TRUE | TRUE |
| 7 | 77166415 - 77269388 | | FALSE | TRUE |
| 7 | 77166415 - 77269388 | F - 4.17% | TRUE | TRUE |
| 7 | 77166415 - 77269388 | | TRUE | TRUE |
| 7 | 77166415 - 77269388 | | FALSE | TRUE |
| 7 | 94285637 - 94299007 | T - 66.67% | TRUE | TRUE |
| 7 | 94285637 - 94299007 | T - 55.56% | TRUE | TRUE |
| 7 | 94285637 - 94299007 | T - 55.56% | TRUE | TRUE |
| 7 | 94285637 - 94299007 | T - 55.56% | TRUE | TRUE |
| 7 | 94285637 - 94299007 | T - 55.56% | FALSE | TRUE |
| 7 | 94285637 - 94299007 | F - 44.44% | TRUE | TRUE |
| 7 | 94285637 - 94299007 | | FALSE | TRUE |
| 7 | 94285637 - 94299007 | | TRUE | TRUE |
| 7 | 94285637 - 94299007 | | FALSE | TRUE |
| 7 | 149411872 - 149431664 | | FALSE | TRUE |
| 7 | 149411872 - 149431664 | T - 68.75% | FALSE | TRUE |
| 8 | 134048973 - 134115310 | T - 54.84% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|------|
| | 8 | 134048973 - 134115310 | | TRUE | TRUE |
| | 8 | 134048973 - 134115310 | F - 32.26% | FALSE | TRUE |
| | 8 | 134048973 - 134115310 | | TRUE | TRUE |
| | 8 | 134048973 - 134115310 | | TRUE | TRUE |
| | 8 | 134048973 - 134115310 | | FALSE | TRUE |
| | 8 | 134048973 - 134115310 | | FALSE | TRUE |
| X | | 19552083 - 19905744 | | TRUE | TRUE |
| X | | 19552083 - 19905744 | | TRUE | TRUE |
| X | | 19552083 - 19905744 | F - 11.11% | TRUE | TRUE |
| | 10 | 38383264 - 38412278 | | TRUE | TRUE |
| | 10 | 38383264 - 38412278 | F - 40.00% | TRUE | TRUE |
| | 10 | 38383264 - 38412278 | F - 20.00% | TRUE | TRUE |
| | 10 | 104209574 - 104216051 | F - 25.00% | TRUE | TRUE |
| | 10 | 104209574 - 104216051 | | TRUE | TRUE |
| | 10 | 111701029 - 111768139 | | FALSE | TRUE |
| | 10 | 111701029 - 111768139 | T - 50.00% | TRUE | TRUE |
| | 10 | 111701029 - 111768139 | F - 16.67% | TRUE | TRUE |
| | 10 | 111701029 - 111768139 | F - 33.33% | TRUE | TRUE |
| | 10 | 111701029 - 111768139 | T - 50.00% | FALSE | TRUE |
| | 12 | 57866038 - 57882597 | | TRUE | TRUE |
| | 12 | 57866038 - 57882597 | F - 13.33% | TRUE | TRUE |
| | 12 | 57866038 - 57882597 | | TRUE | TRUE |
| | 12 | 57866038 - 57882597 | F - 33.33% | FALSE | TRUE |
| | 12 | 57866038 - 57882597 | | TRUE | TRUE |
| | 12 | 102789645 - 102874423 | F - 7.69% | TRUE | TRUE |
| | 12 | 102789645 - 102874423 | | TRUE | TRUE |
| | 12 | 102789645 - 102874423 | F - 15.38% | TRUE | TRUE |
| | 12 | 133302254 - 133338474 | F - 30.00% | TRUE | TRUE |
| | 12 | 133302254 - 133338474 | | FALSE | TRUE |
| | 12 | 133302254 - 133338474 | F - 20.00% | TRUE | TRUE |
| | 12 | 133302254 - 133338474 | | TRUE | TRUE |
| | 15 | 72978520 - 73030817 | | FALSE | TRUE |
| | 15 | 72978520 - 73030817 | F - 20.00% | FALSE | TRUE |
| | 16 | 30389454 - 30394171 | | FALSE | TRUE |
| | 16 | 30389454 - 30394171 | | FALSE | TRUE |
| | 16 | 30389454 - 30394171 | | TRUE | TRUE |
| | 16 | 30389454 - 30394171 | T - 66.67% | TRUE | TRUE |
| | 16 | 30389454 - 30394171 | | FALSE | TRUE |
| | 17 | 78388965 - 78411886 | F - 5.41% | TRUE | TRUE |
| | 17 | 78388965 - 78411886 | F - 5.41% | TRUE | TRUE |
| | 17 | 78388965 - 78411886 | F - 48.65% | TRUE | TRUE |
| | 17 | 78388965 - 78411886 | F - 2.70% | TRUE | TRUE |
| | 17 | 78388965 - 78411886 | | FALSE | TRUE |
| | 19 | 42300369 - 42316352 | F - 22.22% | FALSE | TRUE |
| | 19 | 42300369 - 42316352 | | TRUE | TRUE |
| | 19 | 42300369 - 42316352 | F - 22.22% | FALSE | TRUE |
| | 19 | 46969748 - 46974820 | T - 85.71% | TRUE | TRUE |
| | 19 | 46969748 - 46974820 | | TRUE | TRUE |
| | 19 | 46969748 - 46974820 | | TRUE | TRUE |
| | 19 | 52359055 - 52394203 | | FALSE | TRUE |
| | 19 | 52359055 - 52394203 | F - 27.78% | TRUE | TRUE |
| | 19 | 52359055 - 52394203 | F - 5.56% | TRUE | TRUE |
| | 1 | 16793931 - 16819196 | | TRUE | TRUE |
| | 1 | 16793931 - 16819196 | | FALSE | TRUE |
| | 1 | 16793931 - 16819196 | T - 50.00% | TRUE | TRUE |
| | 1 | 114234854 - 114302111 | F - 5.26% | TRUE | TRUE |
| | 1 | 114234854 - 114302111 | F - 26.32% | TRUE | TRUE |
| | 1 | 114234854 - 114302111 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|------|
| 1 | 114234854 - 114302111 | F - 10.53% | TRUE | TRUE |
| 1 | 114234854 - 114302111 | F - 5.26% | TRUE | TRUE |
| 1 | 114234854 - 114302111 | | FALSE | TRUE |
| 1 | 114234854 - 114302111 | | FALSE | TRUE |
| 1 | 114234854 - 114302111 | | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 4.00% | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 8.00% | TRUE | TRUE |
| 1 | 182350839 - 182361341 | | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 12.00% | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 8.00% | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 4.00% | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 16.00% | TRUE | TRUE |
| 1 | 182350839 - 182361341 | F - 16.00% | FALSE | TRUE |
| 1 | 182350839 - 182361341 | F - 4.00% | FALSE | TRUE |
| 1 | 182350839 - 182361341 | F - 8.00% | TRUE | TRUE |
| 3 | 57741177 - 57914895 | F - 36.11% | TRUE | TRUE |
| 3 | 57741177 - 57914895 | | TRUE | TRUE |
| 3 | 57741177 - 57914895 | F - 11.11% | TRUE | TRUE |
| 3 | 57741177 - 57914895 | | TRUE | TRUE |
| 3 | 57741177 - 57914895 | | TRUE | TRUE |
| 3 | 57741177 - 57914895 | | TRUE | TRUE |
| 3 | 57741177 - 57914895 | F - 44.44% | TRUE | TRUE |
| 3 | 57741177 - 57914895 | | FALSE | TRUE |
| 3 | 57741177 - 57914895 | | TRUE | TRUE |
| 3 | 146232967 - 146262651 | F - 34.62% | TRUE | TRUE |
| 3 | 146232967 - 146262651 | F - 7.69% | TRUE | TRUE |
| 3 | 146232967 - 146262651 | F - 15.38% | TRUE | TRUE |
| 3 | 146232967 - 146262651 | F - 23.08% | FALSE | TRUE |
| 3 | 146232967 - 146262651 | | TRUE | TRUE |
| 3 | 146232967 - 146262651 | | TRUE | TRUE |
| 3 | 146232967 - 146262651 | F - 3.85% | TRUE | TRUE |
| 3 | 146232967 - 146262651 | | TRUE | TRUE |
| 5 | 153369688 - 153418497 | | FALSE | TRUE |
| 5 | 153369688 - 153418497 | F - 4.17% | TRUE | TRUE |
| 6 | 71961061 - 72037787 | F - 20.00% | TRUE | TRUE |
| 6 | 71961061 - 72037787 | | TRUE | TRUE |
| 6 | 71961061 - 72037787 | F - 40.00% | TRUE | TRUE |
| 6 | 71961061 - 72037787 | F - 20.00% | TRUE | TRUE |
| 6 | 71961061 - 72037787 | F - 40.00% | FALSE | TRUE |
| 6 | 29794744 - 29798902 | F - 46.15% | TRUE | TRUE |
| 6 | 29794744 - 29798902 | | TRUE | TRUE |
| 8 | 117778742 - 117861702 | F - 33.33% | TRUE | TRUE |
| 8 | 117778742 - 117861702 | | FALSE | TRUE |
| 8 | 117778742 - 117861702 | F - 8.33% | FALSE | TRUE |
| 8 | 117778742 - 117861702 | F - 8.33% | TRUE | TRUE |
| 8 | 117778742 - 117861702 | | FALSE | TRUE |
| 8 | 120879659 - 121063157 | F - 12.50% | TRUE | TRUE |
| 8 | 120879659 - 121063157 | | TRUE | TRUE |
| 9 | 22002902 - 22009312 | T - 50.00% | TRUE | TRUE |
| 9 | 22002902 - 22009312 | | TRUE | TRUE |
| 9 | 75515578 - 75695358 | F - 8.33% | FALSE | TRUE |
| 9 | 75515578 - 75695358 | | TRUE | TRUE |
| 10 | 96162186 - 96296089 | | TRUE | TRUE |
| 10 | 96162186 - 96296089 | | TRUE | TRUE |
| 10 | 96162186 - 96296089 | F - 20.00% | FALSE | TRUE |
| 10 | 96162186 - 96296089 | T - 60.00% | TRUE | TRUE |
| 10 | 111756108 - 111895323 | F - 33.33% | TRUE | TRUE |
| 10 | 111756108 - 111895323 | F - 46.67% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 10 | 111756108 - 111895323 | F - 3.33% | TRUE | TRUE |
| 10 | 111756108 - 111895323 | | FALSE | TRUE |
| 10 | 111756108 - 111895323 | | TRUE | TRUE |
| 10 | 111756108 - 111895323 | | TRUE | TRUE |
| 10 | 105348285 - 105615301 | | TRUE | TRUE |
| 10 | 105348285 - 105615301 | F - 20.00% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | F - 20.00% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | F - 26.67% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | F - 6.67% | FALSE | TRUE |
| 10 | 105348285 - 105615301 | | TRUE | TRUE |
| 10 | 105348285 - 105615301 | | FALSE | TRUE |
| 10 | 105348285 - 105615301 | F - 6.67% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | F - 26.67% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | F - 46.67% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | | FALSE | TRUE |
| 10 | 105348285 - 105615301 | F - 33.33% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | T - 73.33% | TRUE | TRUE |
| 10 | 105348285 - 105615301 | | TRUE | TRUE |
| 10 | 105348285 - 105615301 | | FALSE | TRUE |
| 10 | 105348285 - 105615301 | | FALSE | TRUE |
| 10 | 105348285 - 105615301 | | TRUE | TRUE |
| 10 | 121430230 - 121484200 | T - 50.00% | TRUE | TRUE |
| 10 | 121430230 - 121484200 | T - 50.00% | TRUE | TRUE |
| 10 | 121430230 - 121484200 | T - 50.00% | FALSE | TRUE |
| 10 | 121430230 - 121484200 | | TRUE | TRUE |
| 11 | 33719654 - 33758025 | | TRUE | TRUE |
| 11 | 33719654 - 33758025 | T - 50.00% | TRUE | TRUE |
| 11 | 33719654 - 33758025 | F - 37.50% | TRUE | TRUE |
| 12 | 27124506 - 27167339 | T - 100.00% | TRUE | TRUE |
| 12 | 27124506 - 27167339 | | TRUE | TRUE |
| 12 | 27124506 - 27167339 | | FALSE | TRUE |
| 12 | 111798339 - 111806925 | F - 11.11% | FALSE | TRUE |
| 12 | 111798339 - 111806925 | | FALSE | TRUE |
| 12 | 111798339 - 111806925 | | FALSE | TRUE |
| 12 | 132680917 - 132905935 | T - 72.73% | TRUE | TRUE |
| 12 | 132680917 - 132905935 | | FALSE | TRUE |
| 12 | 132680917 - 132905935 | | FALSE | TRUE |
| 12 | 132680917 - 132905935 | | FALSE | TRUE |
| 15 | 75246757 - 75249805 | T - 80.00% | TRUE | TRUE |
| 15 | 75246757 - 75249805 | | TRUE | TRUE |
| 15 | 75246757 - 75249805 | F - 40.00% | TRUE | TRUE |
| 17 | 48796905 - 48834076 | F - 16.13% | TRUE | TRUE |
| 17 | 48796905 - 48834076 | | FALSE | TRUE |
| 17 | 48796905 - 48834076 | F - 3.23% | TRUE | TRUE |
| 17 | 1614798 - 1619566 | | TRUE | TRUE |
| 17 | 1614798 - 1619566 | T - 55.56% | TRUE | TRUE |
| 17 | 1614798 - 1619566 | F - 44.44% | TRUE | TRUE |
| 17 | 1614798 - 1619566 | | TRUE | TRUE |
| 17 | 1614798 - 1619566 | | TRUE | TRUE |
| 18 | 33161003 - 33291798 | F - 37.50% | TRUE | TRUE |
| 18 | 33161003 - 33291798 | | TRUE | TRUE |
| 18 | 25530930 - 25757445 | F - 12.50% | TRUE | TRUE |
| 18 | 25530930 - 25757445 | F - 12.50% | FALSE | TRUE |
| 18 | 25530930 - 25757445 | | TRUE | TRUE |
| 21 | 39628663 - 39673748 | T - 52.94% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | | TRUE | TRUE |
| 21 | 39628663 - 39673748 | T - 100.00% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 5.88% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 21 | 39628663 - 39673748 | | TRUE | FALSE |
| 21 | 39628663 - 39673748 | | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 11.76% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | | FALSE | TRUE |
| 21 | 39628663 - 39673748 | F - 17.65% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 5.88% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | T - 52.94% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 5.88% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 29.41% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 5.88% | TRUE | TRUE |
| 21 | 39628663 - 39673748 | F - 5.88% | FALSE | TRUE |
| 21 | 39628663 - 39673748 | | TRUE | TRUE |
| 21 | 39628663 - 39673748 | | FALSE | TRUE |
| 21 | 45138975 - 45194151 | F - 36.00% | TRUE | TRUE |
| 21 | 45138975 - 45194151 | F - 4.00% | FALSE | TRUE |
| 21 | 45138975 - 45194151 | F - 4.00% | FALSE | TRUE |
| 21 | 45138975 - 45194151 | F - 28.00% | TRUE | TRUE |
| 21 | 45138975 - 45194151 | F - 16.00% | TRUE | TRUE |
| 21 | 45138975 - 45194151 | F - 12.00% | TRUE | TRUE |
| 21 | 45138975 - 45194151 | F - 4.00% | TRUE | TRUE |
| 21 | 45138975 - 45194151 | | FALSE | TRUE |
| 21 | 45432200 - 45526433 | | TRUE | TRUE |
| 21 | 45432200 - 45526433 | F - 5.00% | TRUE | TRUE |
| 21 | 45432200 - 45526433 | | TRUE | TRUE |
| 21 | 45432200 - 45526433 | | TRUE | TRUE |
| 21 | 45432200 - 45526433 | | FALSE | TRUE |
| 21 | 45432200 - 45526433 | | FALSE | TRUE |
| 1 | 203444883 - 203460480 | T - 100.00% | TRUE | TRUE |
| 1 | 203444883 - 203460480 | T - 100.00% | TRUE | TRUE |
| 1 | 203444883 - 203460480 | | TRUE | TRUE |
| 2 | 75879126 - 75938115 | F - 43.75% | TRUE | TRUE |
| 2 | 75879126 - 75938115 | | TRUE | TRUE |
| 2 | 175936978 - 176033110 | | FALSE | TRUE |
| 2 | 175936978 - 176033110 | | FALSE | TRUE |
| 2 | 175936978 - 176033110 | F - 4.00% | TRUE | TRUE |
| 2 | 175936978 - 176033110 | | TRUE | TRUE |
| 2 | 191054461 - 191208919 | F - 31.25% | TRUE | TRUE |
| 2 | 191054461 - 191208919 | | FALSE | TRUE |
| 3 | 87276413 - 87304698 | | TRUE | TRUE |
| 3 | 87276413 - 87304698 | T - 87.50% | TRUE | TRUE |
| 3 | 87276413 - 87304698 | | TRUE | TRUE |
| 3 | 87276413 - 87304698 | | FALSE | TRUE |
| 5 | 112196885 - 112228791 | | TRUE | FALSE |
| 5 | 112196885 - 112228791 | F - 14.29% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | | TRUE | TRUE |
| 5 | 112196885 - 112228791 | F - 4.76% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | F - 28.57% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | F - 4.76% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | F - 4.76% | FALSE | TRUE |
| 5 | 112196885 - 112228791 | F - 4.76% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | F - 9.52% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | F - 33.33% | TRUE | TRUE |
| 5 | 112196885 - 112228791 | | FALSE | TRUE |
| 5 | 112196885 - 112228791 | F - 28.57% | TRUE | TRUE |
| 6 | 7541808 - 7586950 | T - 87.50% | TRUE | TRUE |
| 6 | 7541808 - 7586950 | | TRUE | TRUE |
| 6 | 43044006 - 43129457 | F - 9.09% | TRUE | TRUE |
| 6 | 43044006 - 43129457 | F - 3.03% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|------------|-------|------|
| | 6 | 43044006 - 43129457 | F - 3.03% | TRUE | TRUE |
| | 6 | 43044006 - 43129457 | F - 42.42% | TRUE | TRUE |
| | 6 | 43044006 - 43129457 | | TRUE | TRUE |
| | 6 | 43044006 - 43129457 | | TRUE | TRUE |
| | 6 | 43044006 - 43129457 | | FALSE | TRUE |
| | 7 | 100547187 - 100611118 | F - 10.00% | TRUE | TRUE |
| | 7 | 100547187 - 100611118 | | FALSE | TRUE |
| | 7 | 100547187 - 100611118 | F - 40.00% | TRUE | TRUE |
| | 7 | 104751151 - 105039798 | F - 15.00% | TRUE | TRUE |
| | 7 | 104751151 - 105039798 | | TRUE | TRUE |
| X | | 46464753 - 46618490 | T - 57.14% | TRUE | TRUE |
| X | | 46464753 - 46618490 | | FALSE | TRUE |
| X | | 46464753 - 46618490 | F - 14.29% | TRUE | TRUE |
| X | | 46464753 - 46618490 | | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | T - 57.14% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | F - 14.29% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | T - 57.14% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | F - 42.86% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | F - 42.86% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | T - 71.43% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | F - 14.29% | FALSE | TRUE |
| | 11 | 119179234 - 119187840 | | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | | FALSE | TRUE |
| | 11 | 119179234 - 119187840 | F - 14.29% | TRUE | TRUE |
| | 11 | 119179234 - 119187840 | | FALSE | TRUE |
| | 13 | 41885341 - 41951166 | F - 43.75% | TRUE | TRUE |
| | 13 | 41885341 - 41951166 | | TRUE | TRUE |
| | 13 | 41885341 - 41951166 | | TRUE | TRUE |
| | 13 | 41885341 - 41951166 | | FALSE | TRUE |
| | 13 | 41885341 - 41951166 | F - 31.25% | FALSE | TRUE |
| | 14 | 50796310 - 50883179 | F - 16.67% | TRUE | TRUE |
| | 14 | 50796310 - 50883179 | F - 16.67% | TRUE | TRUE |
| | 14 | 50796310 - 50883179 | F - 16.67% | TRUE | TRUE |
| | 14 | 50796310 - 50883179 | | TRUE | TRUE |
| | 14 | 50796310 - 50883179 | F - 16.67% | TRUE | TRUE |
| | 14 | 50796310 - 50883179 | F - 16.67% | TRUE | TRUE |
| | 14 | 50796310 - 50883179 | | FALSE | TRUE |
| | 16 | 31973409 - 31985682 | T - 50.00% | TRUE | TRUE |
| | 16 | 31973409 - 31985682 | | FALSE | TRUE |
| | 17 | 38443885 - 38459413 | | FALSE | TRUE |
| | 17 | 38443885 - 38459413 | T - 75.00% | FALSE | TRUE |
| | 17 | 1963133 - 2207069 | F - 33.33% | TRUE | TRUE |
| | 17 | 1963133 - 2207069 | | TRUE | TRUE |
| | 17 | 1963133 - 2207069 | F - 33.33% | TRUE | TRUE |
| | 17 | 1963133 - 2207069 | | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | F - 3.23% | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | F - 6.45% | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | F - 41.94% | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | F - 29.03% | FALSE | TRUE |
| | 17 | 41102543 - 41132545 | | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | F - 41.94% | FALSE | TRUE |
| | 17 | 41102543 - 41132545 | | FALSE | TRUE |
| | 17 | 41102543 - 41132545 | | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | | TRUE | TRUE |
| | 17 | 41102543 - 41132545 | F - 38.71% | TRUE | TRUE |
| | 17 | 76108999 - 76128488 | T - 57.14% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 17 | 76108999 - 76128488 | T - 71.43% | FALSE | TRUE |
| 17 | 76108999 - 76128488 | | FALSE | TRUE |
| 18 | 13218786 - 13652753 | | TRUE | FALSE |
| 18 | 13218786 - 13652753 | F - 22.22% | TRUE | TRUE |
| 18 | 13218786 - 13652753 | F - 22.22% | TRUE | TRUE |
| 18 | 13218786 - 13652753 | T - 55.56% | TRUE | TRUE |
| 18 | 13218786 - 13652753 | F - 33.33% | TRUE | TRUE |
| 18 | 13218786 - 13652753 | | TRUE | TRUE |
| 18 | 13218786 - 13652753 | | FALSE | TRUE |
| 18 | 13218786 - 13652753 | F - 44.44% | FALSE | TRUE |
| 18 | 32820994 - 32847097 | T - 75.00% | TRUE | TRUE |
| 18 | 32820994 - 32847097 | | FALSE | TRUE |
| 18 | 32820994 - 32847097 | | FALSE | TRUE |
| 19 | 7701991 - 7712759 | | TRUE | TRUE |
| 19 | 7701991 - 7712759 | | TRUE | TRUE |
| 19 | 7701991 - 7712759 | T - 75.00% | TRUE | TRUE |
| 19 | 7701991 - 7712759 | | FALSE | TRUE |
| 19 | 7701991 - 7712759 | T - 75.00% | FALSE | TRUE |
| 19 | 7701991 - 7712759 | | FALSE | TRUE |
| 21 | 30449792 - 30548210 | | TRUE | TRUE |
| 21 | 30449792 - 30548210 | | TRUE | TRUE |
| 21 | 30449792 - 30548210 | | FALSE | TRUE |
| 21 | 30449792 - 30548210 | T - 72.00% | FALSE | TRUE |
| 22 | 42428724 - 42466846 | F - 42.86% | TRUE | TRUE |
| 22 | 42428724 - 42466846 | | TRUE | TRUE |
| 1 | 145952372 - 145956451 | T - 100.00% | TRUE | TRUE |
| 1 | 145952372 - 145956451 | | TRUE | TRUE |
| 1 | 173793641 - 173827684 | T - 66.67% | FALSE | TRUE |
| 1 | 173793641 - 173827684 | | TRUE | TRUE |
| 1 | 173793641 - 173827684 | | FALSE | TRUE |
| 1 | 16555170 - 16563659 | F - 40.00% | TRUE | TRUE |
| 1 | 16555170 - 16563659 | F - 40.00% | TRUE | TRUE |
| 1 | 16555170 - 16563659 | T - 60.00% | TRUE | TRUE |
| 1 | 16555170 - 16563659 | | TRUE | TRUE |
| 1 | 16555170 - 16563659 | F - 40.00% | TRUE | TRUE |
| 1 | 16555170 - 16563659 | | TRUE | TRUE |
| 1 | 16555170 - 16563659 | F - 40.00% | TRUE | TRUE |
| 1 | 16555170 - 16563659 | | FALSE | TRUE |
| 5 | 14664773 - 14699842 | T - 55.56% | TRUE | TRUE |
| 5 | 14664773 - 14699842 | | TRUE | TRUE |
| 5 | 33440802 - 33469644 | F - 4.55% | FALSE | TRUE |
| 5 | 33440802 - 33469644 | | TRUE | TRUE |
| 5 | 33440802 - 33469644 | F - 4.55% | FALSE | TRUE |
| 5 | 33440802 - 33469644 | | FALSE | TRUE |
| 8 | 10530147 - 10558103 | | TRUE | TRUE |
| 8 | 10530147 - 10558103 | F - 33.33% | FALSE | TRUE |
| 8 | 10530147 - 10558103 | | FALSE | TRUE |
| 8 | 10530147 - 10558103 | F - 11.11% | TRUE | TRUE |
| 10 | 90729553 - 90775542 | F - 41.38% | TRUE | TRUE |
| 10 | 90729553 - 90775542 | F - 3.45% | TRUE | TRUE |
| 10 | 90729553 - 90775542 | | FALSE | TRUE |
| 11 | 67183149 - 67193078 | | TRUE | TRUE |
| 11 | 67183149 - 67193078 | T - 63.64% | FALSE | TRUE |
| 11 | 66240961 - 66247704 | F - 25.00% | TRUE | TRUE |
| 11 | 66240961 - 66247704 | | FALSE | TRUE |
| 12 | 123237321 - 123259642 | T - 100.00% | TRUE | TRUE |
| 12 | 123237321 - 123259642 | | FALSE | TRUE |
| 12 | 123237321 - 123259642 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 14 | 21966282 - 21979517 | | FALSE | TRUE |
| 14 | 21966282 - 21979517 | F - 45.45% | TRUE | TRUE |
| 15 | 63481668 - 63559981 | T - 100.00% | TRUE | TRUE |
| 15 | 63481668 - 63559981 | | TRUE | TRUE |
| 17 | 40819933 - 40829048 | F - 11.11% | TRUE | TRUE |
| 17 | 40819933 - 40829048 | | TRUE | TRUE |
| 19 | 55417508 - 55427508 | | FALSE | TRUE |
| 19 | 55417508 - 55427508 | T - 100.00% | FALSE | TRUE |
| 19 | 55417508 - 55427508 | | TRUE | TRUE |
| 19 | 55417508 - 55427508 | | TRUE | TRUE |
| 19 | 36014269 - 36019253 | T - 100.00% | TRUE | TRUE |
| 19 | 36014269 - 36019253 | T - 100.00% | TRUE | TRUE |
| 19 | 36014269 - 36019253 | | FALSE | TRUE |
| 19 | 36014269 - 36019253 | T - 100.00% | FALSE | TRUE |
| 1 | 113554309 - 113615727 | T - 100.00% | TRUE | TRUE |
| 1 | 113554309 - 113615727 | T - 100.00% | TRUE | TRUE |
| 1 | 113554309 - 113615727 | | TRUE | TRUE |
| 1 | 113554309 - 113615727 | | FALSE | TRUE |
| 3 | 47892180 - 48130769 | F - 26.67% | TRUE | TRUE |
| 3 | 47892180 - 48130769 | | FALSE | TRUE |
| 4 | 71569921 - 71674336 | F - 40.91% | TRUE | TRUE |
| 4 | 71569921 - 71674336 | F - 4.55% | TRUE | TRUE |
| 4 | 71569921 - 71674336 | | TRUE | TRUE |
| 5 | 53072474 - 53115516 | T - 100.00% | FALSE | TRUE |
| 5 | 53072474 - 53115516 | | TRUE | TRUE |
| 5 | 53072474 - 53115516 | | TRUE | TRUE |
| 6 | 2391780 - 2484263 | T - 66.67% | TRUE | TRUE |
| 6 | 2391780 - 2484263 | | TRUE | TRUE |
| 6 | 99968569 - 100033084 | | FALSE | TRUE |
| 6 | 99968569 - 100033084 | F - 25.00% | TRUE | TRUE |
| 6 | 43490068 - 43543812 | | FALSE | TRUE |
| 6 | 43490068 - 43543812 | | FALSE | TRUE |
| 6 | 43490068 - 43543812 | F - 44.44% | TRUE | TRUE |
| 6 | 145822719 - 146057160 | F - 13.33% | TRUE | TRUE |
| 6 | 145822719 - 146057160 | F - 6.67% | FALSE | TRUE |
| 6 | 145822719 - 146057160 | | FALSE | TRUE |
| 7 | 45951844 - 45961473 | T - 57.14% | TRUE | TRUE |
| 7 | 45951844 - 45961473 | F - 9.52% | TRUE | TRUE |
| 7 | 45951844 - 45961473 | F - 23.81% | TRUE | TRUE |
| 7 | 45951844 - 45961473 | | FALSE | TRUE |
| 7 | 45951844 - 45961473 | F - 4.76% | TRUE | TRUE |
| 7 | 45951844 - 45961473 | F - 4.76% | TRUE | TRUE |
| 7 | 45951844 - 45961473 | | TRUE | TRUE |
| 7 | 151163098 - 151217206 | F - 10.00% | TRUE | TRUE |
| 7 | 151163098 - 151217206 | | TRUE | TRUE |
| 7 | 116164839 - 116201239 | F - 30.77% | TRUE | TRUE |
| 7 | 116164839 - 116201239 | | TRUE | TRUE |
| 7 | 116164839 - 116201239 | F - 23.08% | TRUE | TRUE |
| 8 | 146065829 - 146079121 | F - 8.33% | TRUE | TRUE |
| 8 | 146065829 - 146079121 | | TRUE | TRUE |
| 9 | 78505560 - 78977255 | | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 8.33% | TRUE | FALSE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | T - 75.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 9 | 78505560 - 78977255 | | FALSE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | FALSE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | TRUE | TRUE |
| 9 | 78505560 - 78977255 | F - 16.67% | FALSE | TRUE |
| 9 | 78505560 - 78977255 | F - 25.00% | FALSE | TRUE |
| 9 | 78505560 - 78977255 | | FALSE | TRUE |
| 9 | 78505560 - 78977255 | | TRUE | TRUE |
| 9 | 78505560 - 78977255 | | TRUE | TRUE |
| 9 | 78505560 - 78977255 | | TRUE | TRUE |
| 10 | 13628927 - 13697929 | | FALSE | TRUE |
| 10 | 13628927 - 13697929 | F - 16.67% | FALSE | TRUE |
| 10 | 13628927 - 13697929 | | FALSE | TRUE |
| 10 | 81838402 - 81852313 | | TRUE | TRUE |
| 10 | 81838402 - 81852313 | F - 15.79% | FALSE | TRUE |
| 10 | 104845940 - 104953063 | F - 5.00% | TRUE | TRUE |
| 10 | 104845940 - 104953063 | F - 5.00% | TRUE | TRUE |
| 10 | 104845940 - 104953063 | F - 10.00% | TRUE | TRUE |
| 10 | 104845940 - 104953063 | F - 45.00% | TRUE | TRUE |
| 10 | 104845940 - 104953063 | | TRUE | TRUE |
| 10 | 104845940 - 104953063 | F - 25.00% | TRUE | TRUE |
| 10 | 104845940 - 104953063 | | TRUE | TRUE |
| 10 | 104845940 - 104953063 | | TRUE | TRUE |
| 11 | 3876932 - 4114440 | F - 10.00% | TRUE | TRUE |
| 11 | 3876932 - 4114440 | | FALSE | TRUE |
| 12 | 118454506 - 118470935 | | FALSE | TRUE |
| 12 | 118454506 - 118470935 | T - 84.62% | FALSE | TRUE |
| 12 | 53290971 - 53343650 | T - 76.47% | TRUE | TRUE |
| 12 | 53290971 - 53343650 | T - 94.12% | TRUE | TRUE |
| 12 | 53290971 - 53343650 | T - 94.12% | TRUE | TRUE |
| 12 | 53290971 - 53343650 | | TRUE | TRUE |
| 16 | 66637935 - 66647795 | F - 8.33% | TRUE | TRUE |
| 16 | 66637935 - 66647795 | | FALSE | TRUE |
| 17 | 44668035 - 44834830 | | FALSE | TRUE |
| 17 | 44668035 - 44834830 | F - 10.00% | TRUE | TRUE |
| 17 | 44668035 - 44834830 | | TRUE | TRUE |
| 17 | 26691378 - 26728065 | T - 100.00% | TRUE | TRUE |
| 17 | 26691378 - 26728065 | T - 100.00% | TRUE | TRUE |
| 17 | 26691378 - 26728065 | | TRUE | TRUE |
| 17 | 26691378 - 26728065 | | FALSE | TRUE |
| 18 | 77439801 - 77514510 | | TRUE | TRUE |
| 18 | 77439801 - 77514510 | T - 100.00% | TRUE | TRUE |
| 20 | 22528309 - 22541562 | T - 100.00% | TRUE | TRUE |
| 20 | 22528309 - 22541562 | | TRUE | TRUE |
| 1 | 28832455 - 28865708 | | TRUE | TRUE |
| 1 | 28832455 - 28865708 | | TRUE | TRUE |
| 1 | 28832455 - 28865708 | F - 25.93% | TRUE | TRUE |
| 1 | 28832455 - 28865708 | | FALSE | TRUE |
| 1 | 28832455 - 28865708 | F - 14.81% | FALSE | TRUE |
| 1 | 227615 - 267253 | | TRUE | TRUE |
| 1 | 227615 - 267253 | F - 40.00% | TRUE | TRUE |
| 3 | 67048727 - 67061634 | F - 11.11% | FALSE | TRUE |
| 3 | 67048727 - 67061634 | | FALSE | TRUE |
| 3 | 67048727 - 67061634 | T - 55.56% | FALSE | TRUE |
| 3 | 100053545 - 100074478 | | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 3 | 100053545 - 100074478 | F - 9.09% | FALSE | TRUE |
| | 4 | 151185594 - 151936879 | F - 10.00% | TRUE | TRUE |
| | 4 | 151185594 - 151936879 | F - 5.00% | FALSE | TRUE |
| | 4 | 151185594 - 151936879 | | FALSE | TRUE |
| | 4 | 151185594 - 151936879 | | TRUE | TRUE |
| | 4 | 151185594 - 151936879 | F - 30.00% | TRUE | TRUE |
| | 4 | 151185594 - 151936879 | | TRUE | TRUE |
| | 5 | 162880494 - 162887146 | | TRUE | TRUE |
| | 5 | 162880494 - 162887146 | F - 20.00% | TRUE | TRUE |
| | 5 | 162880494 - 162887146 | | TRUE | TRUE |
| | 5 | 162880494 - 162887146 | F - 20.00% | FALSE | TRUE |
| | 5 | 176829139 - 176836577 | F - 37.50% | FALSE | TRUE |
| | 5 | 176829139 - 176836577 | | TRUE | TRUE |
| | 5 | 176829139 - 176836577 | | FALSE | TRUE |
| | 6 | 41748087 - 41757879 | | TRUE | TRUE |
| | 6 | 41748087 - 41757879 | F - 27.78% | TRUE | TRUE |
| | 6 | 41748087 - 41757879 | | TRUE | TRUE |
| | 7 | 32767562 - 32794385 | T - 50.00% | TRUE | TRUE |
| | 7 | 32767562 - 32794385 | T - 50.00% | TRUE | TRUE |
| | 7 | 32767562 - 32794385 | | TRUE | TRUE |
| | 7 | 135347221 - 135378166 | T - 50.00% | FALSE | TRUE |
| | 7 | 135347221 - 135378166 | F - 16.67% | FALSE | TRUE |
| | 7 | 135347221 - 135378166 | | FALSE | TRUE |
| | 7 | 95212809 - 95225925 | T - 55.56% | TRUE | TRUE |
| | 7 | 95212809 - 95225925 | | TRUE | TRUE |
| | 7 | 95212809 - 95225925 | F - 11.11% | TRUE | FALSE |
| | 7 | 95212809 - 95225925 | F - 11.11% | TRUE | TRUE |
| | 7 | 95212809 - 95225925 | F - 11.11% | TRUE | TRUE |
| | 8 | 59465483 - 59495419 | F - 4.76% | FALSE | TRUE |
| | 8 | 59465483 - 59495419 | | FALSE | TRUE |
| | 8 | 30239635 - 30242917 | T - 100.00% | TRUE | TRUE |
| | 8 | 30239635 - 30242917 | T - 75.00% | FALSE | TRUE |
| | 8 | 30239635 - 30242917 | | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | T - 66.67% | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | F - 33.33% | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | F - 33.33% | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | F - 33.33% | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | F - 33.33% | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | | TRUE | TRUE |
| | 8 | 12219528 - 12279970 | | FALSE | TRUE |
| | 9 | 125132809 - 125157982 | T - 100.00% | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | F - 8.33% | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | T - 83.33% | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | F - 25.00% | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | F - 16.67% | FALSE | TRUE |
| | 9 | 125132809 - 125157982 | | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | F - 16.67% | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | F - 16.67% | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | | TRUE | TRUE |
| | 9 | 125132809 - 125157982 | F - 25.00% | TRUE | TRUE |
| X | | 134944381 - 134975579 | T - 100.00% | FALSE | TRUE |
| X | | 134944381 - 134975579 | | FALSE | TRUE |
| | 12 | 66582659 - 66648402 | T - 75.00% | TRUE | TRUE |
| | 12 | 66582659 - 66648402 | T - 100.00% | TRUE | TRUE |
| | 12 | 66582659 - 66648402 | | TRUE | TRUE |
| | 12 | 66582659 - 66648402 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|------|
| | 12 | 66582659 - 66648402 | F - 25.00% | FALSE | TRUE |
| | 12 | 66582659 - 66648402 | F - 12.50% | TRUE | TRUE |
| | 12 | 66582659 - 66648402 | T - 75.00% | TRUE | TRUE |
| | 12 | 66582659 - 66648402 | | TRUE | TRUE |
| | 14 | 59895740 - 59932059 | | FALSE | TRUE |
| | 14 | 59895740 - 59932059 | F - 33.33% | TRUE | TRUE |
| | 14 | 59895740 - 59932059 | F - 33.33% | TRUE | TRUE |
| | 14 | 59895740 - 59932059 | | TRUE | TRUE |
| | 16 | 772582 - 776954 | | TRUE | TRUE |
| | 16 | 772582 - 776954 | F - 5.00% | FALSE | TRUE |
| | 16 | 1560428 - 1662109 | | TRUE | TRUE |
| | 16 | 1560428 - 1662109 | T - 71.43% | TRUE | TRUE |
| | 16 | 1560428 - 1662109 | | FALSE | TRUE |
| | 1 | 28879529 - 28905057 | | TRUE | TRUE |
| | 1 | 28879529 - 28905057 | T - 57.14% | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | F - 16.67% | FALSE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | F - 5.56% | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | F - 44.44% | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | F - 2.78% | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | F - 2.78% | FALSE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | | TRUE | TRUE |
| | 1 | 86786611 - 86862025 | F - 2.78% | TRUE | TRUE |
| | 1 | 175911248 - 176176629 | T - 72.22% | TRUE | TRUE |
| | 1 | 175911248 - 176176629 | | FALSE | TRUE |
| | 2 | 3501690 - 3523507 | F - 33.33% | TRUE | TRUE |
| | 2 | 3501690 - 3523507 | | TRUE | TRUE |
| | 5 | 115163893 - 115177555 | F - 5.26% | TRUE | TRUE |
| | 5 | 115163893 - 115177555 | | FALSE | TRUE |
| | 5 | 115163893 - 115177555 | | FALSE | TRUE |
| | 7 | 2552163 - 2568811 | F - 18.18% | FALSE | TRUE |
| | 7 | 2552163 - 2568811 | | FALSE | TRUE |
| | 7 | 65670186 - 65885530 | F - 11.11% | TRUE | TRUE |
| | 7 | 65670186 - 65885530 | | FALSE | TRUE |
| | 7 | 65670186 - 65885530 | F - 11.11% | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | T - 72.73% | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | F - 15.15% | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | | FALSE | TRUE |
| | 8 | 22022249 - 22069840 | | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | F - 45.45% | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | F - 3.03% | TRUE | TRUE |
| | 8 | 22022249 - 22069840 | F - 39.39% | FALSE | TRUE |
| X | | 16606122 - 16731059 | T - 70.00% | TRUE | TRUE |
| X | | 16606122 - 16731059 | | TRUE | TRUE |
| | 10 | 72972292 - 73062635 | | TRUE | TRUE |
| | 10 | 72972292 - 73062635 | T - 60.00% | TRUE | TRUE |
| | 10 | 72972292 - 73062635 | F - 40.00% | TRUE | TRUE |
| | 10 | 72972292 - 73062635 | | TRUE | TRUE |
| | 11 | 369795 - 382117 | T - 100.00% | TRUE | TRUE |
| | 11 | 369795 - 382117 | T - 100.00% | TRUE | TRUE |
| | 11 | 369795 - 382117 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 16 | 50099881 - 50140298 | F - 20.00% | FALSE | TRUE |
| 16 | 50099881 - 50140298 | T - 80.00% | TRUE | TRUE |
| 16 | 50099881 - 50140298 | F - 30.00% | TRUE | TRUE |
| 16 | 50099881 - 50140298 | | TRUE | TRUE |
| 20 | 40030741 - 40247133 | | TRUE | TRUE |
| 20 | 40030741 - 40247133 | F - 20.00% | TRUE | TRUE |
| 20 | 40030741 - 40247133 | | TRUE | TRUE |
| 20 | 40030741 - 40247133 | | TRUE | TRUE |
| 1 | 40915771 - 40929390 | T - 88.89% | TRUE | TRUE |
| 1 | 40915771 - 40929390 | | FALSE | TRUE |
| 2 | 38893052 - 38968379 | T - 87.50% | TRUE | TRUE |
| 2 | 38893052 - 38968379 | | TRUE | TRUE |
| 2 | 38893052 - 38968379 | | TRUE | TRUE |
| 2 | 38893052 - 38968379 | T - 50.00% | TRUE | TRUE |
| 2 | 38893052 - 38968379 | | TRUE | TRUE |
| 2 | 38893052 - 38968379 | | TRUE | TRUE |
| 2 | 38893052 - 38968379 | F - 25.00% | TRUE | TRUE |
| 2 | 38893052 - 38968379 | F - 12.50% | FALSE | TRUE |
| 2 | 38893052 - 38968379 | F - 12.50% | TRUE | TRUE |
| 2 | 38893052 - 38968379 | F - 25.00% | TRUE | TRUE |
| 2 | 38893052 - 38968379 | F - 12.50% | TRUE | TRUE |
| 2 | 130887194 - 130896990 | T - 100.00% | TRUE | TRUE |
| 2 | 130887194 - 130896990 | | FALSE | TRUE |
| 4 | 26578059 - 26756973 | | TRUE | TRUE |
| 4 | 26578059 - 26756973 | F - 15.38% | FALSE | TRUE |
| 4 | 26578059 - 26756973 | F - 7.69% | FALSE | TRUE |
| 5 | 69321072 - 69338940 | F - 19.05% | TRUE | TRUE |
| 5 | 69321072 - 69338940 | | FALSE | TRUE |
| 5 | 149492804 - 149535435 | F - 5.88% | FALSE | TRUE |
| 5 | 149492804 - 149535435 | F - 5.88% | TRUE | FALSE |
| 5 | 149492804 - 149535435 | | TRUE | TRUE |
| 5 | 149492804 - 149535435 | F - 35.29% | TRUE | TRUE |
| 5 | 149492804 - 149535435 | F - 5.88% | TRUE | TRUE |
| 5 | 149492804 - 149535435 | F - 5.88% | TRUE | TRUE |
| 5 | 149492804 - 149535435 | | TRUE | TRUE |
| 5 | 149492804 - 149535435 | F - 5.88% | TRUE | TRUE |
| 6 | 18155560 - 18224084 | | TRUE | TRUE |
| 6 | 18155560 - 18224084 | F - 20.00% | TRUE | TRUE |
| 6 | 18155560 - 18224084 | | TRUE | TRUE |
| 7 | 102067265 - 102075227 | T - 100.00% | TRUE | TRUE |
| 7 | 102067265 - 102075227 | T - 100.00% | FALSE | TRUE |
| 7 | 102067265 - 102075227 | | FALSE | TRUE |
| 8 | 23127633 - 23153792 | | FALSE | TRUE |
| 8 | 23127633 - 23153792 | F - 7.14% | TRUE | TRUE |
| 8 | 37278859 - 37411701 | T - 50.00% | FALSE | TRUE |
| 8 | 37278859 - 37411701 | | FALSE | TRUE |
| 9 | 100263462 - 100364025 | | FALSE | TRUE |
| 9 | 100263462 - 100364025 | | FALSE | TRUE |
| 9 | 100263462 - 100364025 | T - 83.33% | FALSE | TRUE |
| 9 | 100263462 - 100364025 | | FALSE | TRUE |
| 9 | 101493611 - 101559247 | | TRUE | TRUE |
| 9 | 101493611 - 101559247 | F - 6.67% | FALSE | TRUE |
| X | 106057101 - 106243474 | T - 70.00% | TRUE | TRUE |
| X | 106057101 - 106243474 | | TRUE | TRUE |
| X | 131503343 - 131623996 | T - 82.61% | TRUE | TRUE |
| X | 131503343 - 131623996 | | TRUE | TRUE |
| X | 131503343 - 131623996 | T - 78.26% | TRUE | TRUE |
| X | 131503343 - 131623996 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| X | 131503343 - 131623996 | T - 73.91% | FALSE | TRUE |
| X | 131503343 - 131623996 | F - 13.04% | FALSE | TRUE |
| X | 131503343 - 131623996 | F - 4.35% | FALSE | TRUE |
| X | 131503343 - 131623996 | | FALSE | TRUE |
| X | 131503343 - 131623996 | F - 17.39% | FALSE | TRUE |
| X | 131503343 - 131623996 | | FALSE | TRUE |
| 11 | 117070037 - 117075523 | F - 20.00% | TRUE | TRUE |
| 11 | 117070037 - 117075523 | F - 20.00% | TRUE | TRUE |
| 11 | 117070037 - 117075523 | F - 33.33% | TRUE | TRUE |
| 11 | 117070037 - 117075523 | | FALSE | TRUE |
| 11 | 73685712 - 73694352 | T - 100.00% | TRUE | TRUE |
| 11 | 73685712 - 73694352 | | FALSE | TRUE |
| 13 | 32420920 - 32533721 | T - 60.00% | TRUE | TRUE |
| 13 | 32420920 - 32533721 | F - 40.00% | TRUE | TRUE |
| 13 | 32420920 - 32533721 | F - 20.00% | TRUE | TRUE |
| 13 | 32420920 - 32533721 | T - 80.00% | TRUE | TRUE |
| 13 | 32420920 - 32533721 | | TRUE | TRUE |
| 15 | 58702768 - 58861151 | F - 45.45% | TRUE | TRUE |
| 15 | 58702768 - 58861151 | | TRUE | TRUE |
| 15 | 58702768 - 58861151 | | FALSE | TRUE |
| 15 | 58702768 - 58861151 | F - 18.18% | TRUE | TRUE |
| 15 | 58702768 - 58861151 | | TRUE | TRUE |
| 15 | 58702768 - 58861151 | F - 18.18% | TRUE | TRUE |
| 15 | 58702768 - 58861151 | | TRUE | TRUE |
| 15 | 58702768 - 58861151 | | FALSE | TRUE |
| 15 | 65550432 - 65592956 | T - 85.71% | TRUE | TRUE |
| 15 | 65550432 - 65592956 | F - 14.29% | TRUE | TRUE |
| 15 | 65550432 - 65592956 | | TRUE | TRUE |
| 15 | 65550432 - 65592956 | | FALSE | TRUE |
| 16 | 2961980 - 3001209 | T - 100.00% | TRUE | TRUE |
| 16 | 2961980 - 3001209 | | TRUE | TRUE |
| 16 | 2961980 - 3001209 | | TRUE | TRUE |
| 16 | 2961980 - 3001209 | F - 18.18% | TRUE | TRUE |
| 17 | 62461569 - 62464760 | F - 33.33% | TRUE | TRUE |
| 17 | 62461569 - 62464760 | | TRUE | TRUE |
| 19 | 21106059 - 21133503 | | TRUE | TRUE |
| 19 | 21106059 - 21133503 | F - 7.69% | TRUE | TRUE |
| 19 | 21106059 - 21133503 | | TRUE | TRUE |
| 19 | 21106059 - 21133503 | F - 7.69% | TRUE | TRUE |
| 19 | 48706403 - 48759203 | T - 69.57% | TRUE | TRUE |
| 19 | 48706403 - 48759203 | | FALSE | TRUE |
| 19 | 48706403 - 48759203 | F - 2.17% | FALSE | TRUE |
| 19 | 48706403 - 48759203 | F - 43.48% | TRUE | TRUE |
| 19 | 48706403 - 48759203 | | FALSE | TRUE |
| 22 | 38597889 - 38612518 | T - 80.00% | TRUE | TRUE |
| 22 | 38597889 - 38612518 | | TRUE | TRUE |
| 22 | 38597889 - 38612518 | T - 73.33% | TRUE | TRUE |
| 3 | 179370543 - 179507189 | F - 42.86% | TRUE | TRUE |
| 3 | 179370543 - 179507189 | | TRUE | TRUE |
| 3 | 179370543 - 179507189 | T - 57.14% | TRUE | TRUE |
| 3 | 179370543 - 179507189 | | TRUE | TRUE |
| 5 | 79407050 - 79551898 | F - 17.65% | FALSE | TRUE |
| 5 | 79407050 - 79551898 | T - 64.71% | TRUE | TRUE |
| 5 | 79407050 - 79551898 | F - 41.18% | TRUE | TRUE |
| 5 | 79407050 - 79551898 | T - 64.71% | TRUE | TRUE |
| 5 | 79407050 - 79551898 | | TRUE | TRUE |
| 5 | 79407050 - 79551898 | F - 5.88% | FALSE | TRUE |
| 5 | 79407050 - 79551898 | | FALSE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 5 | 150560613 - 150603706 | T - 54.55% | TRUE | TRUE |
| 5 | 150560613 - 150603706 | F - 9.09% | FALSE | TRUE |
| 5 | 150560613 - 150603706 | | FALSE | TRUE |
| 5 | 150560613 - 150603706 | F - 36.36% | TRUE | TRUE |
| 6 | 53659295 - 53788919 | | TRUE | TRUE |
| 6 | 53659295 - 53788919 | F - 16.67% | TRUE | TRUE |
| 6 | 53659295 - 53788919 | T - 66.67% | TRUE | TRUE |
| 6 | 53659295 - 53788919 | | FALSE | TRUE |
| 6 | 53659295 - 53788919 | | TRUE | TRUE |
| 6 | 122793062 - 123047518 | F - 14.29% | FALSE | TRUE |
| 6 | 122793062 - 123047518 | F - 14.29% | TRUE | TRUE |
| 6 | 122793062 - 123047518 | | TRUE | TRUE |
| 6 | 16299343 - 16761722 | F - 16.67% | TRUE | TRUE |
| 6 | 16299343 - 16761722 | F - 5.56% | TRUE | TRUE |
| 6 | 16299343 - 16761722 | | FALSE | TRUE |
| 7 | 79082198 - 79100524 | F - 37.50% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 6.25% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 6.25% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 12.50% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 6.25% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | | TRUE | FALSE |
| 7 | 79082198 - 79100524 | F - 6.25% | FALSE | TRUE |
| 7 | 79082198 - 79100524 | F - 6.25% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 18.75% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 6.25% | FALSE | TRUE |
| 7 | 79082198 - 79100524 | F - 25.00% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 31.25% | FALSE | TRUE |
| 7 | 79082198 - 79100524 | F - 12.50% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 6.25% | TRUE | TRUE |
| 7 | 79082198 - 79100524 | F - 37.50% | FALSE | TRUE |
| 7 | 79082198 - 79100524 | | FALSE | TRUE |
| 7 | 79082198 - 79100524 | | FALSE | TRUE |
| 7 | 156931607 - 157062066 | | TRUE | TRUE |
| 7 | 156931607 - 157062066 | | TRUE | TRUE |
| 7 | 156931607 - 157062066 | F - 7.69% | TRUE | TRUE |
| 7 | 156931607 - 157062066 | | TRUE | TRUE |
| Y | 9225731 - 9235047 | | TRUE | TRUE |
| Y | 9225731 - 9235047 | T - 75.00% | TRUE | TRUE |
| Y | 9225731 - 9235047 | T - 50.00% | TRUE | TRUE |
| Y | 9225731 - 9235047 | | TRUE | TRUE |
| 10 | 127700950 - 128077127 | F - 38.46% | TRUE | TRUE |
| 10 | 127700950 - 128077127 | F - 7.69% | TRUE | TRUE |
| 10 | 127700950 - 128077127 | | TRUE | TRUE |
| 10 | 127700950 - 128077127 | | TRUE | TRUE |
| 10 | 127700950 - 128077127 | F - 7.69% | FALSE | TRUE |
| 10 | 127700950 - 128077127 | | TRUE | TRUE |
| 11 | 58910221 - 58922512 | F - 23.08% | TRUE | TRUE |
| 11 | 58910221 - 58922512 | | TRUE | TRUE |
| 14 | 39734476 - 39856156 | F - 3.85% | TRUE | TRUE |
| 14 | 39734476 - 39856156 | | FALSE | TRUE |
| 15 | 48700503 - 48938046 | F - 12.50% | TRUE | TRUE |
| 15 | 48700503 - 48938046 | | FALSE | TRUE |
| 16 | 50352929 - 50402861 | F - 12.50% | TRUE | TRUE |
| 16 | 50352929 - 50402861 | | FALSE | TRUE |
| 17 | 15339332 - 15466945 | F - 7.41% | TRUE | TRUE |
| 17 | 15339332 - 15466945 | F - 11.11% | TRUE | TRUE |
| 17 | 15339332 - 15466945 | T - 51.85% | TRUE | TRUE |
| 17 | 15339332 - 15466945 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 17 | 15339332 - 15466945 | T - 51.85% | TRUE | TRUE |
| 17 | 15339332 - 15466945 | F - 3.70% | TRUE | TRUE |
| 17 | 15339332 - 15466945 | | TRUE | TRUE |
| 17 | 15339332 - 15466945 | F - 3.70% | TRUE | TRUE |
| 17 | 76967335 - 76976061 | | FALSE | TRUE |
| 17 | 76967335 - 76976061 | T - 100.00% | TRUE | TRUE |
| 17 | 76967335 - 76976061 | | FALSE | TRUE |
| 19 | 5558178 - 5568045 | | TRUE | TRUE |
| 19 | 5558178 - 5568045 | T - 50.00% | TRUE | TRUE |
| 19 | 5558178 - 5568045 | T - 100.00% | FALSE | TRUE |
| 19 | 46623328 - 46627931 | T - 100.00% | TRUE | TRUE |
| 19 | 46623328 - 46627931 | T - 100.00% | TRUE | FALSE |
| 19 | 46623328 - 46627931 | | TRUE | TRUE |
| 20 | 31030862 - 31172876 | F - 37.50% | FALSE | TRUE |
| 20 | 31030862 - 31172876 | | TRUE | TRUE |
| 20 | 31030862 - 31172876 | F - 31.25% | TRUE | TRUE |
| 6_apd_hap1 | 1062750 - 1069002 | T - 100.00% | TRUE | TRUE |
| 6_apd_hap1 | 1062750 - 1069002 | | TRUE | TRUE |
| 6_cox_hap2 | 1275212 - 1281464 | T - 100.00% | TRUE | TRUE |
| 6_cox_hap2 | 1275212 - 1281464 | | TRUE | TRUE |
| 1 | 104230037 - 104239302 | | FALSE | TRUE |
| 1 | 104230037 - 104239302 | T - 80.00% | FALSE | TRUE |
| 2 | 74710200 - 74722013 | T - 80.95% | TRUE | TRUE |
| 2 | 74710200 - 74722013 | | FALSE | TRUE |
| 2 | 130680750 - 130704276 | T - 100.00% | FALSE | TRUE |
| 2 | 130680750 - 130704276 | | TRUE | TRUE |
| 3 | 93591881 - 93692934 | | TRUE | FALSE |
| 3 | 93591881 - 93692934 | | TRUE | FALSE |
| 3 | 93591881 - 93692934 | | TRUE | FALSE |
| 3 | 93591881 - 93692934 | F - 33.33% | TRUE | TRUE |
| 3 | 93591881 - 93692934 | F - 22.22% | TRUE | TRUE |
| 3 | 93591881 - 93692934 | F - 11.11% | TRUE | FALSE |
| 3 | 50330259 - 50336899 | T - 78.57% | FALSE | TRUE |
| 3 | 50330259 - 50336899 | | FALSE | TRUE |
| 4 | 159045626 - 159094470 | F - 16.67% | TRUE | TRUE |
| 4 | 159045626 - 159094470 | | FALSE | TRUE |
| 4 | 159045626 - 159094470 | F - 8.33% | TRUE | TRUE |
| 4 | 159045626 - 159094470 | | FALSE | TRUE |
| 4 | 159045626 - 159094470 | F - 16.67% | TRUE | TRUE |
| 4 | 159045626 - 159094470 | | TRUE | TRUE |
| 4 | 159045626 - 159094470 | | TRUE | TRUE |
| 4 | 185548850 - 185570663 | | TRUE | TRUE |
| 4 | 185548850 - 185570663 | F - 30.00% | TRUE | TRUE |
| 7 | 5553485 - 5565173 | F - 33.33% | TRUE | TRUE |
| 7 | 5553485 - 5565173 | | TRUE | TRUE |
| 7 | 5553485 - 5565173 | T - 100.00% | TRUE | TRUE |
| 7 | 5553485 - 5565173 | | TRUE | TRUE |
| 7 | 73213872 - 73247017 | F - 12.50% | TRUE | TRUE |
| 7 | 73213872 - 73247017 | | TRUE | TRUE |
| 11 | 799179 - 809523 | T - 90.91% | TRUE | TRUE |
| 11 | 799179 - 809523 | | FALSE | TRUE |
| 12 | 57881077 - 57911334 | F - 46.15% | FALSE | TRUE |
| 12 | 57881077 - 57911334 | F - 23.08% | TRUE | TRUE |
| 12 | 57881077 - 57911334 | F - 7.69% | FALSE | TRUE |
| 12 | 57881077 - 57911334 | F - 7.69% | TRUE | TRUE |
| 12 | 57881077 - 57911334 | | TRUE | TRUE |
| 12 | 57881077 - 57911334 | | FALSE | TRUE |
| 12 | 69004619 - 69054385 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|------|
| 12 | 69004619 - 69054385 | | TRUE | TRUE |
| 12 | 69004619 - 69054385 | T - 96.43% | TRUE | TRUE |
| 14 | 74960423 - 74963809 | F - 33.33% | TRUE | TRUE |
| 14 | 74960423 - 74963809 | T - 50.00% | TRUE | TRUE |
| 14 | 74960423 - 74963809 | | FALSE | TRUE |
| 14 | 100204069 - 100408397 | T - 58.33% | TRUE | TRUE |
| 14 | 100204069 - 100408397 | | FALSE | TRUE |
| 15 | 79724858 - 79764644 | T - 100.00% | TRUE | TRUE |
| 15 | 79724858 - 79764644 | T - 80.00% | TRUE | TRUE |
| 15 | 79724858 - 79764644 | T - 80.00% | TRUE | TRUE |
| 15 | 79724858 - 79764644 | F - 20.00% | TRUE | TRUE |
| 15 | 79724858 - 79764644 | | TRUE | TRUE |
| 15 | 79724858 - 79764644 | | TRUE | TRUE |
| 15 | 25922420 - 26110317 | F - 20.00% | TRUE | TRUE |
| 15 | 25922420 - 26110317 | F - 40.00% | TRUE | TRUE |
| 15 | 25922420 - 26110317 | | TRUE | TRUE |
| 16 | 29911700 - 29930953 | | FALSE | TRUE |
| 16 | 29911700 - 29930953 | T - 62.50% | TRUE | TRUE |
| 17 | 62962668 - 62971703 | | TRUE | TRUE |
| 17 | 62962668 - 62971703 | | TRUE | TRUE |
| 17 | 62962668 - 62971703 | T - 100.00% | TRUE | TRUE |
| 17 | 62962668 - 62971703 | | FALSE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | F - 10.00% | TRUE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | T - 50.00% | FALSE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | F - 20.00% | TRUE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | F - 20.00% | FALSE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | | TRUE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | F - 20.00% | TRUE | TRUE |
| 6_cox_hap2 | 3154081 - 3161436 | F - 10.00% | FALSE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | F - 10.00% | TRUE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | T - 50.00% | FALSE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | F - 20.00% | TRUE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | F - 20.00% | FALSE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | | TRUE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | F - 20.00% | TRUE | TRUE |
| 6_dbb_hap3 | 2930041 - 2937398 | F - 10.00% | FALSE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | F - 10.00% | TRUE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | T - 50.00% | FALSE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | F - 20.00% | TRUE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | F - 20.00% | FALSE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | | TRUE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | F - 20.00% | TRUE | TRUE |
| 6_mann_hap4 | 2987351 - 2994707 | F - 10.00% | FALSE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | F - 10.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | T - 50.00% | FALSE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | F - 20.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | F - 20.00% | FALSE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | | TRUE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | F - 20.00% | TRUE | TRUE |
| 6_mcf_hap5 | 3024141 - 3031497 | F - 10.00% | FALSE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | F - 10.00% | TRUE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | T - 50.00% | FALSE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | F - 20.00% | TRUE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | F - 20.00% | FALSE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | | TRUE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | F - 20.00% | TRUE | TRUE |
| 6_qbl_hap6 | 2938104 - 2945456 | F - 10.00% | FALSE | TRUE |
| 6_ssto_hap7 | 2975266 - 2982619 | F - 10.00% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 6_ssto_hap7 | 2975266 - 2982619 | T - 50.00% | FALSE | TRUE |
| 6_ssto_hap7 | 2975266 - 2982619 | F - 20.00% | TRUE | TRUE |
| 6_ssto_hap7 | 2975266 - 2982619 | F - 20.00% | FALSE | TRUE |
| 6_ssto_hap7 | 2975266 - 2982619 | | TRUE | TRUE |
| 6_ssto_hap7 | 2975266 - 2982619 | F - 20.00% | TRUE | TRUE |
| 6_ssto_hap7 | 2975266 - 2982619 | F - 10.00% | FALSE | TRUE |
| 1 | 43585819 - 43622067 | F - 11.11% | FALSE | TRUE |
| 1 | 43585819 - 43622067 | | FALSE | TRUE |
| 1 | 46859937 - 46879520 | T - 54.55% | FALSE | TRUE |
| 1 | 46859937 - 46879520 | | FALSE | TRUE |
| 2 | 18059114 - 18542882 | F - 11.11% | TRUE | TRUE |
| 2 | 18059114 - 18542882 | F - 11.11% | TRUE | TRUE |
| 2 | 18059114 - 18542882 | | TRUE | TRUE |
| 3 | 148847371 - 148891519 | F - 9.09% | TRUE | TRUE |
| 3 | 148847371 - 148891519 | | TRUE | TRUE |
| 3 | 148847371 - 148891519 | T - 54.55% | TRUE | TRUE |
| 3 | 148847371 - 148891519 | | TRUE | TRUE |
| 3 | 148847371 - 148891519 | F - 36.36% | TRUE | TRUE |
| 3 | 148847371 - 148891519 | F - 9.09% | TRUE | TRUE |
| 3 | 156391024 - 156424559 | F - 18.18% | FALSE | TRUE |
| 3 | 156391024 - 156424559 | | TRUE | TRUE |
| 4 | 24807739 - 24981826 | | FALSE | TRUE |
| 4 | 24807739 - 24981826 | | FALSE | TRUE |
| 4 | 24807739 - 24981826 | T - 66.67% | TRUE | TRUE |
| 4 | 24807739 - 24981826 | T - 73.33% | FALSE | TRUE |
| 6 | 147525494 - 147711612 | F - 20.00% | TRUE | TRUE |
| 6 | 147525494 - 147711612 | | TRUE | TRUE |
| 6 | 147525494 - 147711612 | | FALSE | TRUE |
| 7 | 120590803 - 120617270 | T - 69.23% | TRUE | TRUE |
| 7 | 120590803 - 120617270 | F - 7.69% | TRUE | TRUE |
| 7 | 120590803 - 120617270 | | TRUE | TRUE |
| 7 | 120590803 - 120617270 | F - 7.69% | FALSE | TRUE |
| 8 | 120428546 - 120436678 | T - 80.00% | TRUE | TRUE |
| 8 | 120428546 - 120436678 | | TRUE | TRUE |
| 8 | 120428546 - 120436678 | | TRUE | FALSE |
| 8 | 120428546 - 120436678 | T - 60.00% | TRUE | TRUE |
| 8 | 67383676 - 67430759 | F - 15.79% | TRUE | TRUE |
| 8 | 67383676 - 67430759 | | FALSE | TRUE |
| 9 | 136028340 - 136039332 | | FALSE | TRUE |
| 9 | 136028340 - 136039332 | | TRUE | TRUE |
| 9 | 136028340 - 136039332 | F - 7.14% | FALSE | TRUE |
| 9 | 136028340 - 136039332 | | TRUE | TRUE |
| 9 | 136028340 - 136039332 | | FALSE | TRUE |
| Y | 2087555 - 2369019 | F - 21.43% | TRUE | TRUE |
| Y | 2087555 - 2369019 | F - 21.43% | TRUE | TRUE |
| Y | 2087555 - 2369019 | | TRUE | TRUE |
| Y | 2087555 - 2369019 | | TRUE | TRUE |
| Y | 2087555 - 2369019 | | TRUE | TRUE |
| Y | 2087555 - 2369019 | F - 21.43% | TRUE | TRUE |
| Y | 2087555 - 2369019 | | TRUE | TRUE |
| 11 | 31391377 - 31454382 | | TRUE | TRUE |
| 11 | 31391377 - 31454382 | F - 25.00% | TRUE | TRUE |
| 11 | 65222728 - 65234028 | T - 100.00% | FALSE | TRUE |
| 11 | 65222728 - 65234028 | T - 100.00% | TRUE | TRUE |
| 11 | 65222728 - 65234028 | | FALSE | TRUE |
| 12 | 77252495 - 77272840 | T - 50.00% | TRUE | TRUE |
| 12 | 77252495 - 77272840 | | TRUE | FALSE |
| 12 | 77252495 - 77272840 | F - 16.67% | TRUE | FALSE |

| | | | | | |
|-------------|----|-----------------------|-------------|-------|-------|
| | 12 | 77252495 - 77272840 | T - 83.33% | TRUE | TRUE |
| | 17 | 56282797 - 56296966 | | TRUE | TRUE |
| | 17 | 56282797 - 56296966 | T - 100.00% | TRUE | TRUE |
| | 17 | 56282797 - 56296966 | | FALSE | TRUE |
| | 19 | 43084393 - 43099082 | T - 66.67% | TRUE | TRUE |
| | 19 | 43084393 - 43099082 | | FALSE | TRUE |
| 6_mann_hap4 | | 2816314 - 2821820 | | FALSE | TRUE |
| 6_mann_hap4 | | 2816314 - 2821820 | T - 100.00% | TRUE | TRUE |
| 6_mann_hap4 | | 2816314 - 2821820 | | TRUE | TRUE |
| | 1 | 6296300 - 6299504 | T - 100.00% | TRUE | TRUE |
| | 1 | 6296300 - 6299504 | F - 33.33% | TRUE | TRUE |
| | 1 | 6296300 - 6299504 | F - 33.33% | FALSE | TRUE |
| | 1 | 6296300 - 6299504 | F - 33.33% | TRUE | TRUE |
| | 1 | 6296300 - 6299504 | | TRUE | TRUE |
| | 2 | 71336806 - 71357394 | F - 33.33% | TRUE | TRUE |
| | 2 | 71336806 - 71357394 | F - 22.22% | TRUE | TRUE |
| | 2 | 71336806 - 71357394 | | TRUE | TRUE |
| | 2 | 71336806 - 71357394 | F - 22.22% | FALSE | TRUE |
| | 2 | 71336806 - 71357394 | F - 22.22% | TRUE | TRUE |
| | 2 | 152126979 - 152146571 | | TRUE | TRUE |
| | 2 | 152126979 - 152146571 | F - 44.44% | TRUE | TRUE |
| | 2 | 152126979 - 152146571 | | FALSE | TRUE |
| | 3 | 151961617 - 152183569 | | TRUE | TRUE |
| | 3 | 151961617 - 152183569 | | FALSE | TRUE |
| | 3 | 151961617 - 152183569 | F - 5.26% | TRUE | TRUE |
| | 3 | 151961617 - 152183569 | | TRUE | TRUE |
| | 3 | 151961617 - 152183569 | | TRUE | TRUE |
| | 6 | 106808784 - 107018335 | F - 22.22% | FALSE | TRUE |
| | 6 | 106808784 - 107018335 | | TRUE | TRUE |
| | 7 | 137029676 - 137039229 | | FALSE | TRUE |
| | 7 | 137029676 - 137039229 | T - 100.00% | FALSE | TRUE |
| X | | 20142636 - 20159966 | | TRUE | TRUE |
| X | | 20142636 - 20159966 | T - 80.00% | FALSE | TRUE |
| | 11 | 120811 - 139612 | F - 16.67% | TRUE | TRUE |
| | 11 | 120811 - 139612 | | TRUE | TRUE |
| | 12 | 48877070 - 48894744 | | FALSE | TRUE |
| | 12 | 48877070 - 48894744 | T - 100.00% | TRUE | TRUE |
| | 12 | 48877070 - 48894744 | T - 100.00% | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | T - 100.00% | TRUE | FALSE |
| | 14 | 80663868 - 80697397 | T - 93.33% | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | F - 33.33% | TRUE | FALSE |
| | 14 | 80663868 - 80697397 | F - 26.67% | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | T - 66.67% | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | | TRUE | FALSE |
| | 14 | 80663868 - 80697397 | F - 20.00% | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | | TRUE | TRUE |
| | 14 | 80663868 - 80697397 | F - 13.33% | TRUE | TRUE |
| | 14 | 91737667 - 91884188 | F - 8.33% | TRUE | TRUE |
| | 14 | 91737667 - 91884188 | | TRUE | TRUE |
| | 14 | 91737667 - 91884188 | | TRUE | TRUE |
| | 14 | 24681945 - 24685276 | F - 23.08% | FALSE | TRUE |
| | 14 | 24681945 - 24685276 | | FALSE | TRUE |
| | 19 | 58360099 - 58400442 | | TRUE | TRUE |
| | 19 | 58360099 - 58400442 | F - 40.00% | TRUE | TRUE |
| | 19 | 58360099 - 58400442 | F - 20.00% | FALSE | TRUE |
| | 19 | 58360099 - 58400442 | F - 40.00% | TRUE | TRUE |
| | 19 | 58360099 - 58400442 | F - 40.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|------------|-------|-------|
| 19 | 58360099 - 58400442 | F - 20.00% | TRUE | TRUE |
| 19 | 58360099 - 58400442 | F - 20.00% | TRUE | TRUE |
| 22 | 39378458 - 39429256 | | FALSE | TRUE |
| 22 | 39378458 - 39429256 | | FALSE | TRUE |
| 22 | 39378458 - 39429256 | | FALSE | TRUE |
| 22 | 39378458 - 39429256 | T - 71.43% | TRUE | TRUE |
| 22 | 39378458 - 39429256 | | TRUE | TRUE |
| 1 | 155099936 - 155107386 | T - 90.00% | TRUE | TRUE |
| 1 | 155099936 - 155107386 | T - 80.00% | TRUE | TRUE |
| 1 | 155099936 - 155107386 | T - 90.00% | TRUE | TRUE |
| 1 | 155099936 - 155107386 | | TRUE | TRUE |
| 1 | 155099936 - 155107386 | | TRUE | TRUE |
| 2 | 96991062 - 96994091 | F - 45.45% | TRUE | FALSE |
| 2 | 96991062 - 96994091 | F - 36.36% | TRUE | TRUE |
| 2 | 96991062 - 96994091 | F - 18.18% | FALSE | TRUE |
| 2 | 96991062 - 96994091 | | FALSE | TRUE |
| 2 | 96991062 - 96994091 | F - 36.36% | TRUE | TRUE |
| 2 | 113239731 - 113290227 | F - 16.67% | TRUE | TRUE |
| 2 | 113239731 - 113290227 | | TRUE | TRUE |
| 3 | 136676707 - 136729927 | F - 33.33% | TRUE | TRUE |
| 3 | 136676707 - 136729927 | T - 88.89% | TRUE | TRUE |
| 3 | 136676707 - 136729927 | | TRUE | TRUE |
| 3 | 136676707 - 136729927 | F - 44.44% | TRUE | TRUE |
| 3 | 136676707 - 136729927 | | TRUE | TRUE |
| 3 | 136676707 - 136729927 | | TRUE | TRUE |
| 3 | 136676707 - 136729927 | | FALSE | TRUE |
| 3 | 136676707 - 136729927 | F - 11.11% | TRUE | TRUE |
| 3 | 136676707 - 136729927 | F - 22.22% | TRUE | TRUE |
| 5 | 72251808 - 72386349 | | TRUE | TRUE |
| 5 | 72251808 - 72386349 | | TRUE | TRUE |
| 5 | 72251808 - 72386349 | F - 7.69% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 13.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | TRUE | FALSE |
| 11 | 131240371 - 132206716 | T - 60.00% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 40.00% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 13.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 16.67% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 26.67% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 6.67% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 23.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 13.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 3.33% | FALSE | TRUE |
| 11 | 131240371 - 132206716 | F - 20.00% | FALSE | TRUE |
| 11 | 131240371 - 132206716 | F - 10.00% | FALSE | TRUE |
| 11 | 131240371 - 132206716 | | TRUE | TRUE |
| 11 | 131240371 - 132206716 | F - 16.67% | TRUE | TRUE |
| 20 | 4833002 - 4990939 | | TRUE | TRUE |
| 20 | 4833002 - 4990939 | | FALSE | TRUE |
| 20 | 4833002 - 4990939 | F - 30.00% | FALSE | TRUE |
| 20 | 50400581 - 50419048 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|------|
| 20 | 50400581 - 50419048 | F - 11.11% | TRUE | TRUE |
| 20 | 50400581 - 50419048 | F - 11.11% | TRUE | TRUE |
| 20 | 50400581 - 50419048 | | TRUE | TRUE |
| 20 | 50400581 - 50419048 | T - 77.78% | TRUE | TRUE |
| 20 | 50400581 - 50419048 | T - 66.67% | TRUE | TRUE |
| 20 | 50400581 - 50419048 | | FALSE | TRUE |
| 20 | 50400581 - 50419048 | | FALSE | TRUE |
| 22 | 20103461 - 20114878 | T - 50.00% | TRUE | TRUE |
| 22 | 20103461 - 20114878 | | TRUE | TRUE |
| 22 | 20103461 - 20114878 | | TRUE | TRUE |
| 22 | 20103461 - 20114878 | | FALSE | TRUE |
| 22 | 45898118 - 45997015 | F - 4.00% | TRUE | TRUE |
| 22 | 45898118 - 45997015 | F - 4.00% | TRUE | TRUE |
| 22 | 45898118 - 45997015 | | TRUE | TRUE |
| 22 | 45898118 - 45997015 | F - 44.00% | TRUE | TRUE |
| 22 | 45898118 - 45997015 | F - 8.00% | FALSE | TRUE |
| 22 | 45898118 - 45997015 | F - 4.00% | FALSE | TRUE |
| 22 | 45898118 - 45997015 | F - 8.00% | TRUE | TRUE |
| 22 | 45898118 - 45997015 | | FALSE | TRUE |
| 22 | 45898118 - 45997015 | | FALSE | TRUE |
| 22 | 45898118 - 45997015 | | TRUE | TRUE |
| 22 | 45898118 - 45997015 | | FALSE | TRUE |
| 2 | 27873679 - 27887508 | | FALSE | TRUE |
| 2 | 27873679 - 27887508 | F - 7.69% | FALSE | TRUE |
| X | 129473874 - 129507335 | | FALSE | TRUE |
| X | 129473874 - 129507335 | T - 50.00% | FALSE | TRUE |
| X | 129473874 - 129507335 | F - 36.36% | FALSE | TRUE |
| 12 | 53662083 - 53778657 | T - 71.43% | FALSE | TRUE |
| 12 | 53662083 - 53778657 | | FALSE | TRUE |
| 12 | 53662083 - 53778657 | | FALSE | TRUE |
| 12 | 53662083 - 53778657 | T - 85.71% | TRUE | TRUE |
| 12 | 6456009 - 6486525 | T - 63.64% | TRUE | TRUE |
| 12 | 6456009 - 6486525 | F - 9.09% | FALSE | TRUE |
| 12 | 6456009 - 6486525 | | FALSE | TRUE |
| 17 | 6007 - 31427 | T - 100.00% | TRUE | TRUE |
| 17 | 6007 - 31427 | | FALSE | TRUE |
| 2 | 186603355 - 186698017 | F - 36.36% | TRUE | TRUE |
| 2 | 186603355 - 186698017 | F - 45.45% | FALSE | TRUE |
| 2 | 186603355 - 186698017 | F - 18.18% | TRUE | TRUE |
| 2 | 186603355 - 186698017 | | FALSE | TRUE |
| 2 | 186603355 - 186698017 | | FALSE | TRUE |
| 3 | 63819546 - 63849597 | | TRUE | TRUE |
| 3 | 63819546 - 63849597 | F - 10.00% | FALSE | TRUE |
| 6 | 169615875 - 169654139 | F - 22.22% | TRUE | TRUE |
| 6 | 169615875 - 169654139 | F - 11.11% | TRUE | TRUE |
| 6 | 169615875 - 169654139 | | TRUE | TRUE |
| 6 | 169615875 - 169654139 | F - 22.22% | TRUE | TRUE |
| 10 | 695888 - 712562 | F - 20.00% | FALSE | TRUE |
| 10 | 695888 - 712562 | | FALSE | TRUE |
| 15 | 42841008 - 42862192 | F - 16.67% | TRUE | TRUE |
| 15 | 42841008 - 42862192 | | TRUE | TRUE |
| 15 | 42841008 - 42862192 | | TRUE | TRUE |
| 16 | 75572015 - 75590170 | | FALSE | TRUE |
| 16 | 75572015 - 75590170 | | TRUE | TRUE |
| 16 | 75572015 - 75590170 | T - 75.00% | TRUE | TRUE |
| 16 | 75572015 - 75590170 | | FALSE | TRUE |
| 18 | 45553639 - 45935663 | | TRUE | TRUE |
| 18 | 45553639 - 45935663 | F - 15.15% | TRUE | TRUE |

| | | | | |
|----|---------------------|------------|-------|-------|
| 18 | 45553639 - 45935663 | | FALSE | TRUE |
| 20 | 44002520 - 44036529 | | FALSE | TRUE |
| 20 | 44002520 - 44036529 | T - 71.43% | TRUE | TRUE |
| 22 | 21562261 - 21594223 | F - 40.00% | TRUE | TRUE |
| 22 | 21562261 - 21594223 | T - 70.00% | TRUE | TRUE |
| 22 | 21562261 - 21594223 | | FALSE | TRUE |
| 22 | 21562261 - 21594223 | | FALSE | TRUE |
| 22 | 21562261 - 21594223 | | TRUE | TRUE |
| 22 | 21562261 - 21594223 | | FALSE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | FALSE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | FALSE |
| 22 | 46756731 - 46933067 | F - 42.86% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | FALSE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 42.86% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | FALSE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | FALSE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 42.86% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | FALSE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | FALSE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|------------|-------|-------|
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | FALSE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | FALSE | TRUE |
| 22 | 46756731 - 46933067 | F - 28.57% | TRUE | TRUE |
| 22 | 46756731 - 46933067 | | TRUE | TRUE |
| 22 | 46756731 - 46933067 | F - 14.29% | TRUE | TRUE |
| 6_mann_hap4 | 4537841 - 4554153 | T - 50.00% | TRUE | TRUE |
| 6_mann_hap4 | 4537841 - 4554153 | T - 50.00% | TRUE | TRUE |
| 6_mann_hap4 | 4537841 - 4554153 | | TRUE | TRUE |
| 6_mann_hap4 | 4537841 - 4554153 | | TRUE | TRUE |
| 6_mann_hap4 | 4537841 - 4554153 | | TRUE | TRUE |
| 6_qbl_hap6 | 4312748 - 4329060 | T - 50.00% | TRUE | TRUE |
| 6_qbl_hap6 | 4312748 - 4329060 | T - 50.00% | TRUE | TRUE |
| 6_qbl_hap6 | 4312748 - 4329060 | | TRUE | TRUE |
| 6_qbl_hap6 | 4312748 - 4329060 | | TRUE | TRUE |
| 6_qbl_hap6 | 4312748 - 4329060 | | TRUE | TRUE |
| 1 | 76190036 - 76229364 | F - 5.56% | TRUE | TRUE |
| 1 | 76190036 - 76229364 | F - 22.22% | TRUE | TRUE |
| 1 | 76190036 - 76229364 | | FALSE | TRUE |
| 1 | 151023447 - 151042801 | T - 54.55% | TRUE | TRUE |
| 1 | 151023447 - 151042801 | F - 9.09% | FALSE | TRUE |
| 1 | 151023447 - 151042801 | | TRUE | TRUE |
| 1 | 154916552 - 154928599 | F - 42.86% | TRUE | TRUE |
| 1 | 154916552 - 154928599 | | TRUE | TRUE |
| 2 | 45878484 - 46415129 | | TRUE | TRUE |
| 2 | 45878484 - 46415129 | F - 33.33% | TRUE | TRUE |
| 2 | 45878484 - 46415129 | | FALSE | TRUE |
| 4 | 99792835 - 99851788 | F - 20.00% | FALSE | TRUE |
| 4 | 99792835 - 99851788 | | FALSE | TRUE |
| 5 | 36606457 - 36688436 | | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 5.26% | TRUE | FALSE |
| 5 | 36606457 - 36688436 | F - 10.53% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 5.26% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | | TRUE | FALSE |
| 5 | 36606457 - 36688436 | F - 5.26% | TRUE | FALSE |
| 5 | 36606457 - 36688436 | | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 26.32% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 15.79% | FALSE | TRUE |
| 5 | 36606457 - 36688436 | F - 5.26% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 10.53% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 5.26% | FALSE | TRUE |
| 5 | 36606457 - 36688436 | F - 5.26% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 26.32% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 15.79% | FALSE | TRUE |
| 5 | 36606457 - 36688436 | F - 5.26% | TRUE | TRUE |
| 5 | 36606457 - 36688436 | F - 15.79% | FALSE | TRUE |
| 5 | 139554227 - 139663119 | F - 44.44% | TRUE | TRUE |
| 5 | 139554227 - 139663119 | | TRUE | TRUE |
| 5 | 173508509 - 173513562 | T - 66.67% | TRUE | TRUE |
| 5 | 173508509 - 173513562 | | TRUE | TRUE |
| 6 | 74405508 - 74538041 | | TRUE | TRUE |
| 6 | 74405508 - 74538041 | T - 88.89% | TRUE | TRUE |
| 7 | 93592074 - 93633694 | | FALSE | TRUE |
| 7 | 93592074 - 93633694 | F - 30.00% | TRUE | TRUE |
| 7 | 93592074 - 93633694 | F - 10.00% | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 93592074 - 93633694 | F - 10.00% | FALSE | TRUE |
| 7 | 93592074 - 93633694 | F - 30.00% | TRUE | TRUE |
| 7 | 76673038 - 76958850 | F - 26.67% | TRUE | TRUE |
| 7 | 76673038 - 76958850 | F - 26.67% | TRUE | TRUE |
| 7 | 76673038 - 76958850 | | TRUE | TRUE |
| 7 | 76673038 - 76958850 | F - 6.67% | TRUE | TRUE |
| 9 | 95176527 - 95186836 | T - 100.00% | TRUE | TRUE |
| 9 | 95176527 - 95186836 | | TRUE | TRUE |
| 9 | 95176527 - 95186836 | | TRUE | FALSE |
| 9 | 95176527 - 95186836 | F - 33.33% | TRUE | TRUE |
| 9 | 123714614 - 123837452 | | FALSE | TRUE |
| 9 | 123714614 - 123837452 | | FALSE | TRUE |
| 9 | 123714614 - 123837452 | | FALSE | TRUE |
| 9 | 123714614 - 123837452 | F - 9.09% | FALSE | TRUE |
| 9 | 123714614 - 123837452 | | FALSE | TRUE |
| 9 | 136528682 - 136605077 | F - 44.44% | FALSE | TRUE |
| 9 | 136528682 - 136605077 | T - 61.11% | FALSE | TRUE |
| 9 | 136528682 - 136605077 | | FALSE | TRUE |
| 9 | 136528682 - 136605077 | | FALSE | TRUE |
| 9 | 88879461 - 88897676 | F - 14.29% | TRUE | TRUE |
| 9 | 88879461 - 88897676 | | FALSE | TRUE |
| X | 46357160 - 46404892 | F - 8.33% | TRUE | TRUE |
| X | 46357160 - 46404892 | | TRUE | TRUE |
| X | 46357160 - 46404892 | | TRUE | TRUE |
| Y | 9185120 - 9193010 | T - 100.00% | TRUE | TRUE |
| Y | 9185120 - 9193010 | T - 100.00% | TRUE | TRUE |
| Y | 9185120 - 9193010 | T - 100.00% | TRUE | TRUE |
| Y | 9185120 - 9193010 | | TRUE | TRUE |
| Y | 9185120 - 9193010 | T - 66.67% | TRUE | TRUE |
| Y | 9185120 - 9193010 | | TRUE | TRUE |
| 11 | 13299325 - 13408813 | | FALSE | TRUE |
| 11 | 13299325 - 13408813 | | TRUE | TRUE |
| 11 | 13299325 - 13408813 | | TRUE | TRUE |
| 11 | 13299325 - 13408813 | F - 39.29% | FALSE | TRUE |
| 12 | 16500076 - 16530126 | | FALSE | TRUE |
| 12 | 16500076 - 16530126 | F - 15.38% | FALSE | TRUE |
| 12 | 81664454 - 81706201 | F - 10.00% | FALSE | TRUE |
| 12 | 81664454 - 81706201 | | FALSE | TRUE |
| 14 | 51955855 - 52197445 | F - 15.38% | FALSE | TRUE |
| 14 | 51955855 - 52197445 | | TRUE | TRUE |
| 16 | 56700647 - 56701977 | T - 100.00% | TRUE | TRUE |
| 16 | 56700647 - 56701977 | | TRUE | TRUE |
| 19 | 676389 - 683392 | F - 33.33% | TRUE | TRUE |
| 19 | 676389 - 683392 | | TRUE | TRUE |
| 19 | 6531010 - 6535939 | F - 33.33% | TRUE | TRUE |
| 19 | 6531010 - 6535939 | | FALSE | TRUE |
| 19 | 812488 - 821967 | T - 70.00% | TRUE | TRUE |
| 19 | 812488 - 821967 | | FALSE | TRUE |
| 20 | 35624752 - 35724410 | | FALSE | TRUE |
| 20 | 35624752 - 35724410 | T - 100.00% | TRUE | TRUE |
| 2 | 111876955 - 111926022 | F - 5.71% | TRUE | TRUE |
| 2 | 111876955 - 111926022 | F - 5.71% | FALSE | TRUE |
| 2 | 111876955 - 111926022 | | TRUE | TRUE |
| 3 | 124480795 - 124606674 | | FALSE | TRUE |
| 3 | 124480795 - 124606674 | F - 8.33% | TRUE | TRUE |
| 4 | 74124926 - 74183670 | | FALSE | TRUE |
| 4 | 74124926 - 74183670 | T - 100.00% | TRUE | TRUE |
| 4 | 74124926 - 74183670 | T - 100.00% | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|------|
| | 6 | 29894106 - 29897504 | T - 100.00% | TRUE | TRUE |
| | 6 | 29894106 - 29897504 | | TRUE | TRUE |
| | 6 | 29894106 - 29897504 | | FALSE | TRUE |
| | 6 | 37400907 - 37450603 | F - 35.71% | TRUE | TRUE |
| | 6 | 37400907 - 37450603 | | TRUE | TRUE |
| X | | 150148982 - 150159248 | F - 33.33% | TRUE | TRUE |
| X | | 150148982 - 150159248 | F - 11.11% | FALSE | TRUE |
| X | | 150148982 - 150159248 | | TRUE | TRUE |
| X | | 150148982 - 150159248 | F - 44.44% | TRUE | TRUE |
| | 16 | 46918290 - 46965201 | T - 83.33% | TRUE | TRUE |
| | 16 | 46918290 - 46965201 | | TRUE | TRUE |
| | 16 | 46918290 - 46965201 | | FALSE | TRUE |
| | 22 | 43013846 - 43045574 | F - 12.50% | FALSE | TRUE |
| | 22 | 43013846 - 43045574 | | FALSE | TRUE |
| | 22 | 43013846 - 43045574 | | FALSE | TRUE |
| | 1 | 168664695 - 168698502 | | TRUE | TRUE |
| | 1 | 168664695 - 168698502 | F - 33.33% | TRUE | TRUE |
| | 1 | 173204199 - 173446294 | T - 100.00% | TRUE | TRUE |
| | 1 | 173204199 - 173446294 | T - 100.00% | TRUE | TRUE |
| | 1 | 173204199 - 173446294 | | TRUE | TRUE |
| | 3 | 33839844 - 33911199 | F - 3.70% | FALSE | TRUE |
| | 3 | 33839844 - 33911199 | | FALSE | TRUE |
| | 4 | 25749049 - 25865382 | F - 37.50% | TRUE | TRUE |
| | 4 | 25749049 - 25865382 | F - 6.25% | FALSE | TRUE |
| | 4 | 25749049 - 25865382 | F - 12.50% | TRUE | TRUE |
| | 4 | 25749049 - 25865382 | F - 6.25% | TRUE | TRUE |
| | 4 | 25749049 - 25865382 | F - 6.25% | FALSE | TRUE |
| | 4 | 25749049 - 25865382 | F - 12.50% | TRUE | TRUE |
| | 4 | 25749049 - 25865382 | F - 6.25% | FALSE | TRUE |
| | 4 | 25749049 - 25865382 | | TRUE | TRUE |
| | 4 | 25749049 - 25865382 | F - 6.25% | TRUE | TRUE |
| | 4 | 25749049 - 25865382 | | FALSE | TRUE |
| | 5 | 133450402 - 133487556 | F - 7.50% | FALSE | TRUE |
| | 5 | 133450402 - 133487556 | F - 25.00% | FALSE | TRUE |
| | 5 | 133450402 - 133487556 | | FALSE | TRUE |
| | 5 | 133450402 - 133487556 | | FALSE | TRUE |
| | 7 | 76139745 - 76648340 | F - 16.67% | TRUE | TRUE |
| | 7 | 76139745 - 76648340 | | TRUE | TRUE |
| | 8 | 21964383 - 21967456 | | FALSE | TRUE |
| | 8 | 21964383 - 21967456 | T - 80.00% | FALSE | TRUE |
| | 8 | 42704780 - 42751866 | F - 7.69% | FALSE | TRUE |
| | 8 | 42704780 - 42751866 | | TRUE | TRUE |
| | 10 | 99472930 - 99484694 | F - 16.67% | TRUE | TRUE |
| | 10 | 99472930 - 99484694 | | TRUE | TRUE |
| | 2 | 27579113 - 27590489 | | TRUE | TRUE |
| | 2 | 27579113 - 27590489 | F - 33.33% | TRUE | TRUE |
| | 2 | 27579113 - 27590489 | T - 66.67% | TRUE | TRUE |
| | 2 | 69240276 - 69476459 | F - 8.33% | TRUE | TRUE |
| | 2 | 69240276 - 69476459 | F - 16.67% | FALSE | TRUE |
| | 2 | 69240276 - 69476459 | | TRUE | TRUE |
| | 2 | 69240276 - 69476459 | F - 25.00% | TRUE | TRUE |
| | 2 | 69240276 - 69476459 | F - 8.33% | TRUE | TRUE |
| | 2 | 228549926 - 228582745 | F - 21.43% | FALSE | TRUE |
| | 2 | 228549926 - 228582745 | | FALSE | TRUE |
| | 4 | 165875598 - 165898820 | | TRUE | TRUE |
| | 4 | 165875598 - 165898820 | T - 100.00% | FALSE | TRUE |
| | 4 | 165875598 - 165898820 | T - 100.00% | TRUE | TRUE |
| | 6 | 150285143 - 150294846 | | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 6 | 150285143 - 150294846 | T - 100.00% | TRUE | TRUE |
| 10 | 69865874 - 69971774 | | FALSE | TRUE |
| 10 | 69865874 - 69971774 | | TRUE | TRUE |
| 10 | 69865874 - 69971774 | T - 89.47% | TRUE | TRUE |
| 10 | 69865874 - 69971774 | | TRUE | TRUE |
| 10 | 69865874 - 69971774 | | TRUE | TRUE |
| 12 | 100550175 - 100590222 | F - 10.00% | TRUE | TRUE |
| 12 | 100550175 - 100590222 | | FALSE | TRUE |
| 12 | 100550175 - 100590222 | | TRUE | TRUE |
| 12 | 100550175 - 100590222 | | FALSE | TRUE |
| 1 | 147400506 - 147465755 | F - 4.76% | FALSE | TRUE |
| 1 | 147400506 - 147465755 | | FALSE | TRUE |
| 1 | 229406822 - 229441641 | | TRUE | TRUE |
| 1 | 229406822 - 229441641 | T - 50.00% | FALSE | TRUE |
| 3 | 58810163 - 59004819 | | TRUE | TRUE |
| 3 | 58810163 - 59004819 | F - 25.00% | FALSE | TRUE |
| 3 | 101498029 - 101547075 | | TRUE | TRUE |
| 3 | 101498029 - 101547075 | F - 20.00% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | T - 61.54% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | T - 53.85% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 15.38% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 7.69% | TRUE | FALSE |
| 4 | 79892902 - 80229953 | F - 7.69% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 7.69% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 7.69% | FALSE | TRUE |
| 4 | 79892902 - 80229953 | F - 7.69% | FALSE | TRUE |
| 4 | 79892902 - 80229953 | | FALSE | TRUE |
| 4 | 79892902 - 80229953 | F - 7.69% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 46.15% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 23.08% | TRUE | TRUE |
| 4 | 79892902 - 80229953 | F - 7.69% | FALSE | TRUE |
| 6 | 30670844 - 30680961 | | FALSE | TRUE |
| 6 | 30670844 - 30680961 | T - 100.00% | FALSE | TRUE |
| 9 | 21324051 - 21335429 | F - 12.50% | TRUE | TRUE |
| 9 | 21324051 - 21335429 | | FALSE | TRUE |
| 9 | 21324051 - 21335429 | | TRUE | TRUE |
| 14 | 58467479 - 58618931 | F - 16.67% | TRUE | TRUE |
| 14 | 58467479 - 58618931 | | FALSE | TRUE |
| 15 | 57592563 - 57599967 | T - 100.00% | TRUE | TRUE |
| 15 | 57592563 - 57599967 | | TRUE | TRUE |
| 16 | 72146056 - 72206349 | | FALSE | TRUE |
| 16 | 72146056 - 72206349 | F - 10.00% | FALSE | TRUE |
| 16 | 72146056 - 72206349 | | TRUE | TRUE |
| 19 | 38397861 - 38699012 | | TRUE | TRUE |
| 19 | 38397861 - 38699012 | | TRUE | TRUE |
| 19 | 38397861 - 38699012 | T - 75.00% | TRUE | TRUE |
| 20 | 50448336 - 50479451 | T - 100.00% | TRUE | TRUE |
| 20 | 50448336 - 50479451 | T - 100.00% | TRUE | TRUE |
| 20 | 50448336 - 50479451 | | TRUE | TRUE |
| 20 | 60528525 - 60640866 | | TRUE | TRUE |
| 20 | 60528525 - 60640866 | | TRUE | TRUE |
| 20 | 60528525 - 60640866 | T - 55.56% | TRUE | TRUE |
| 6_apd_hap1 | 1982488 - 1992604 | | FALSE | TRUE |
| 6_apd_hap1 | 1982488 - 1992604 | T - 100.00% | FALSE | TRUE |
| 6_cox_hap2 | 2182914 - 2193030 | | FALSE | TRUE |
| 6_cox_hap2 | 2182914 - 2193030 | T - 100.00% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 6_dbb_hap3 | 1964504 - 1974620 | | FALSE | TRUE |
| 6_dbb_hap3 | 1964504 - 1974620 | T - 100.00% | FALSE | TRUE |
| 6_mann_hap4 | 2018939 - 2029055 | | FALSE | TRUE |
| 6_mann_hap4 | 2018939 - 2029055 | T - 100.00% | FALSE | TRUE |
| 6_mcf_hap5 | 2052728 - 2062844 | | FALSE | TRUE |
| 6_mcf_hap5 | 2052728 - 2062844 | T - 100.00% | FALSE | TRUE |
| 6_ssto_hap7 | 2003151 - 2013267 | | FALSE | TRUE |
| 6_ssto_hap7 | 2003151 - 2013267 | T - 100.00% | FALSE | TRUE |
| 3 | 148568720 - 148677899 | T - 100.00% | TRUE | TRUE |
| 3 | 148568720 - 148677899 | | TRUE | TRUE |
| 3 | 148568720 - 148677899 | | FALSE | TRUE |
| 4 | 121606074 - 121844025 | | FALSE | TRUE |
| 4 | 121606074 - 121844025 | F - 10.53% | TRUE | TRUE |
| 4 | 121606074 - 121844025 | | TRUE | TRUE |
| 4 | 121606074 - 121844025 | F - 10.53% | TRUE | TRUE |
| 5 | 34656342 - 34832732 | | FALSE | TRUE |
| 5 | 34656342 - 34832732 | F - 2.70% | FALSE | TRUE |
| 5 | 114546527 - 114598569 | | TRUE | TRUE |
| 5 | 114546527 - 114598569 | | FALSE | TRUE |
| 5 | 114546527 - 114598569 | F - 16.67% | FALSE | TRUE |
| 7 | 90032648 - 90142716 | | FALSE | TRUE |
| 7 | 90032648 - 90142716 | F - 4.55% | TRUE | TRUE |
| 8 | 90769975 - 90803292 | | TRUE | TRUE |
| 8 | 90769975 - 90803292 | T - 50.00% | TRUE | TRUE |
| 12 | 124773710 - 124800570 | T - 100.00% | FALSE | TRUE |
| 12 | 124773710 - 124800570 | | TRUE | TRUE |
| 14 | 70078310 - 70181861 | F - 20.00% | TRUE | TRUE |
| 14 | 70078310 - 70181861 | F - 20.00% | TRUE | TRUE |
| 14 | 70078310 - 70181861 | | FALSE | TRUE |
| 16 | 30772933 - 30787628 | | FALSE | TRUE |
| 16 | 30772933 - 30787628 | T - 73.33% | TRUE | TRUE |
| 2 | 160092304 - 160143310 | T - 100.00% | TRUE | TRUE |
| 2 | 160092304 - 160143310 | | TRUE | TRUE |
| 5 | 72921983 - 73237818 | F - 26.92% | TRUE | TRUE |
| 5 | 72921983 - 73237818 | | TRUE | TRUE |
| 6 | 76067008 - 76096096 | F - 33.33% | TRUE | TRUE |
| 6 | 76067008 - 76096096 | | TRUE | TRUE |
| 6 | 76067008 - 76096096 | | FALSE | TRUE |
| 12 | 83080659 - 83528649 | T - 80.00% | FALSE | TRUE |
| 12 | 83080659 - 83528649 | | FALSE | TRUE |
| 15 | 100913144 - 100978119 | T - 50.00% | TRUE | TRUE |
| 15 | 100913144 - 100978119 | | TRUE | TRUE |
| 22 | 26921458 - 26992681 | F - 6.67% | FALSE | TRUE |
| 22 | 26921458 - 26992681 | | FALSE | TRUE |
| 1 | 145376125 - 145382397 | | TRUE | FALSE |
| 1 | 145376125 - 145382397 | T - 50.00% | TRUE | TRUE |
| 1 | 145376125 - 145382397 | F - 25.00% | TRUE | TRUE |
| 1 | 145376125 - 145382397 | | TRUE | TRUE |
| 1 | 145376125 - 145382397 | F - 25.00% | TRUE | TRUE |
| 1 | 145376125 - 145382397 | T - 75.00% | TRUE | TRUE |
| 1 | 145376125 - 145382397 | F - 25.00% | TRUE | TRUE |
| 1 | 145376125 - 145382397 | T - 50.00% | TRUE | TRUE |
| 1 | 145376125 - 145382397 | F - 25.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | F - 16.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | F - 32.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | F - 28.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | F - 44.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | T - 56.00% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 4 | 57514154 - 57548065 | T - 96.00% | TRUE | FALSE |
| 4 | 57514154 - 57548065 | T - 100.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | F - 24.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | F - 8.00% | TRUE | TRUE |
| 4 | 57514154 - 57548065 | | FALSE | TRUE |
| 4 | 57514154 - 57548065 | F - 4.00% | FALSE | TRUE |
| 4 | 57514154 - 57548065 | | FALSE | TRUE |
| 4 | 57514154 - 57548065 | | FALSE | TRUE |
| 4 | 57514154 - 57548065 | F - 36.00% | FALSE | TRUE |
| 5 | 72416119 - 72427644 | F - 16.67% | TRUE | TRUE |
| 5 | 72416119 - 72427644 | T - 100.00% | TRUE | TRUE |
| 5 | 72416119 - 72427644 | T - 83.33% | TRUE | TRUE |
| 5 | 72416119 - 72427644 | | TRUE | TRUE |
| 5 | 119799973 - 120023027 | F - 40.00% | TRUE | TRUE |
| 5 | 119799973 - 120023027 | | TRUE | TRUE |
| 9 | 79379352 - 79402485 | | FALSE | TRUE |
| 9 | 79379352 - 79402485 | T - 100.00% | TRUE | TRUE |
| 10 | 134020993 - 134146063 | F - 40.00% | TRUE | TRUE |
| 10 | 134020993 - 134146063 | F - 6.67% | TRUE | TRUE |
| 10 | 134020993 - 134146063 | F - 6.67% | TRUE | TRUE |
| 10 | 134020993 - 134146063 | | FALSE | TRUE |
| 11 | 18287721 - 18291524 | | TRUE | FALSE |
| 11 | 18287721 - 18291524 | | TRUE | TRUE |
| 11 | 18287721 - 18291524 | | TRUE | TRUE |
| 11 | 18287721 - 18291524 | T - 91.67% | TRUE | TRUE |
| 11 | 18287721 - 18291524 | T - 66.67% | TRUE | FALSE |
| 11 | 18287721 - 18291524 | F - 8.33% | TRUE | TRUE |
| 11 | 18287721 - 18291524 | F - 8.33% | TRUE | TRUE |
| 11 | 128761251 - 128790930 | T - 100.00% | FALSE | TRUE |
| 11 | 128761251 - 128790930 | | FALSE | TRUE |
| 13 | 115000362 - 115038198 | F - 18.75% | TRUE | TRUE |
| 13 | 115000362 - 115038198 | | TRUE | TRUE |
| 6_qbl_hap6 | 1963777 - 1973892 | | FALSE | TRUE |
| 6_qbl_hap6 | 1963777 - 1973892 | T - 100.00% | FALSE | TRUE |
| 1 | 43766566 - 43791552 | F - 4.17% | FALSE | TRUE |
| 1 | 43766566 - 43791552 | | FALSE | TRUE |
| 2 | 206546562 - 206662857 | | TRUE | TRUE |
| 2 | 206546562 - 206662857 | F - 16.13% | TRUE | TRUE |
| 2 | 206546562 - 206662857 | F - 35.48% | TRUE | TRUE |
| 2 | 206546562 - 206662857 | | TRUE | TRUE |
| 2 | 206546562 - 206662857 | | FALSE | TRUE |
| 2 | 202241930 - 202316334 | F - 11.11% | FALSE | TRUE |
| 2 | 202241930 - 202316334 | | FALSE | TRUE |
| 6 | 132129156 - 132216295 | | FALSE | TRUE |
| 6 | 132129156 - 132216295 | F - 33.33% | FALSE | TRUE |
| 2 | 17720393 - 17838285 | | TRUE | FALSE |
| 2 | 17720393 - 17838285 | T - 62.50% | TRUE | TRUE |
| 2 | 17720393 - 17838285 | | TRUE | FALSE |
| 2 | 17720393 - 17838285 | T - 87.50% | TRUE | TRUE |
| 2 | 17720393 - 17838285 | T - 62.50% | TRUE | TRUE |
| 2 | 17720393 - 17838285 | | TRUE | TRUE |
| 2 | 17720393 - 17838285 | | TRUE | TRUE |
| 2 | 17720393 - 17838285 | F - 12.50% | FALSE | TRUE |
| 2 | 17720393 - 17838285 | F - 12.50% | TRUE | TRUE |
| 2 | 17720393 - 17838285 | | TRUE | TRUE |
| 2 | 17720393 - 17838285 | F - 12.50% | TRUE | TRUE |
| 2 | 17720393 - 17838285 | | TRUE | TRUE |
| 2 | 17720393 - 17838285 | F - 12.50% | TRUE | TRUE |

| | | | | | |
|-------------|----|-----------------------|-------------|-------|------|
| | 2 | 17720393 - 17838285 | F - 12.50% | FALSE | TRUE |
| | 6 | 33217311 - 33222766 | | FALSE | TRUE |
| | 6 | 33217311 - 33222766 | | FALSE | TRUE |
| | 6 | 33217311 - 33222766 | T - 80.00% | TRUE | TRUE |
| | 6 | 29393281 - 29424848 | T - 60.00% | FALSE | TRUE |
| | 6 | 29393281 - 29424848 | | FALSE | TRUE |
| | 7 | 30323923 - 30407308 | T - 50.00% | TRUE | TRUE |
| | 7 | 30323923 - 30407308 | | TRUE | TRUE |
| | 7 | 30323923 - 30407308 | T - 75.00% | TRUE | TRUE |
| | 8 | 23286665 - 23315244 | F - 8.33% | TRUE | TRUE |
| | 8 | 23286665 - 23315244 | F - 16.67% | TRUE | TRUE |
| | 8 | 23286665 - 23315244 | F - 8.33% | TRUE | TRUE |
| | 8 | 23286665 - 23315244 | | TRUE | TRUE |
| | 17 | 29248698 - 29286340 | T - 75.00% | FALSE | TRUE |
| | 17 | 29248698 - 29286340 | | FALSE | TRUE |
| 6_cox_hap2 | | 4661137 - 4666592 | | FALSE | TRUE |
| 6_cox_hap2 | | 4661137 - 4666592 | | FALSE | TRUE |
| 6_cox_hap2 | | 4661137 - 4666592 | T - 80.00% | TRUE | TRUE |
| 6_cox_hap2 | | 912059 - 943630 | T - 60.00% | FALSE | TRUE |
| 6_cox_hap2 | | 912059 - 943630 | | FALSE | TRUE |
| 6_dbb_hap3 | | 4498631 - 4504086 | | FALSE | TRUE |
| 6_dbb_hap3 | | 4498631 - 4504086 | | FALSE | TRUE |
| 6_dbb_hap3 | | 4498631 - 4504086 | T - 80.00% | TRUE | TRUE |
| 6_mann_hap4 | | 4674615 - 4680070 | | FALSE | TRUE |
| 6_mann_hap4 | | 4674615 - 4680070 | | FALSE | TRUE |
| 6_mann_hap4 | | 4674615 - 4680070 | T - 80.00% | TRUE | TRUE |
| 6_mann_hap4 | | 696260 - 727815 | T - 60.00% | FALSE | TRUE |
| 6_mann_hap4 | | 696260 - 727815 | | FALSE | TRUE |
| 6_mcf_hap5 | | 4691101 - 4696552 | | FALSE | TRUE |
| 6_mcf_hap5 | | 4691101 - 4696552 | | FALSE | TRUE |
| 6_mcf_hap5 | | 4691101 - 4696552 | T - 80.00% | TRUE | TRUE |
| 6_mcf_hap5 | | 696457 - 728030 | T - 60.00% | FALSE | TRUE |
| 6_mcf_hap5 | | 696457 - 728030 | | FALSE | TRUE |
| 6_qbl_hap6 | | 4449530 - 4454982 | | FALSE | TRUE |
| 6_qbl_hap6 | | 4449530 - 4454982 | | FALSE | TRUE |
| 6_qbl_hap6 | | 4449530 - 4454982 | T - 80.00% | TRUE | TRUE |
| 6_ssto_hap7 | | 4697536 - 4702988 | | FALSE | TRUE |
| 6_ssto_hap7 | | 4697536 - 4702988 | | FALSE | TRUE |
| 6_ssto_hap7 | | 4697536 - 4702988 | T - 80.00% | TRUE | TRUE |
| | 1 | 212859759 - 212873327 | F - 20.00% | TRUE | TRUE |
| | 1 | 212859759 - 212873327 | T - 60.00% | TRUE | TRUE |
| | 1 | 212859759 - 212873327 | T - 80.00% | TRUE | TRUE |
| | 1 | 212859759 - 212873327 | | TRUE | TRUE |
| | 7 | 75162619 - 75368283 | | FALSE | TRUE |
| | 7 | 75162619 - 75368283 | F - 10.00% | FALSE | TRUE |
| | 7 | 66093868 - 66108216 | T - 83.33% | TRUE | TRUE |
| | 7 | 66093868 - 66108216 | | FALSE | TRUE |
| | 9 | 66494269 - 66503030 | F - 33.33% | TRUE | TRUE |
| | 9 | 66494269 - 66503030 | | FALSE | TRUE |
| | 10 | 121332978 - 121356541 | F - 20.00% | TRUE | TRUE |
| | 10 | 121332978 - 121356541 | | FALSE | TRUE |
| | 15 | 66797431 - 66841823 | | TRUE | TRUE |
| | 15 | 66797431 - 66841823 | T - 77.78% | FALSE | TRUE |
| | 16 | 1138226 - 1146244 | T - 100.00% | FALSE | TRUE |
| | 16 | 1138226 - 1146244 | | TRUE | TRUE |
| | 16 | 67471917 - 67515140 | F - 28.57% | FALSE | TRUE |
| | 16 | 67471917 - 67515140 | | TRUE | TRUE |
| | 16 | 67471917 - 67515140 | F - 28.57% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 17 | 56769934 - 56811703 | | FALSE | TRUE |
| 17 | 56769934 - 56811703 | F - 22.22% | FALSE | TRUE |
| 17 | 56769934 - 56811703 | | TRUE | TRUE |
| 20 | 24449835 - 24647252 | | TRUE | TRUE |
| 20 | 24449835 - 24647252 | F - 25.00% | TRUE | TRUE |
| 20 | 24449835 - 24647252 | T - 50.00% | TRUE | TRUE |
| 2 | 198115582 - 198167243 | T - 100.00% | TRUE | TRUE |
| 2 | 198115582 - 198167243 | | TRUE | TRUE |
| 6 | 124125069 - 125146803 | | TRUE | TRUE |
| 6 | 124125069 - 125146803 | | TRUE | TRUE |
| 6 | 124125069 - 125146803 | | TRUE | TRUE |
| 6 | 124125069 - 125146803 | T - 76.92% | TRUE | FALSE |
| 6 | 124125069 - 125146803 | T - 53.85% | TRUE | TRUE |
| 6 | 124125069 - 125146803 | F - 38.46% | TRUE | TRUE |
| 6 | 124125069 - 125146803 | F - 7.69% | FALSE | TRUE |
| 6 | 124125069 - 125146803 | T - 69.23% | TRUE | TRUE |
| 11 | 64373646 - 64490660 | F - 42.86% | FALSE | TRUE |
| 11 | 64373646 - 64490660 | | TRUE | TRUE |
| 11 | 64373646 - 64490660 | F - 47.62% | FALSE | TRUE |
| 11 | 64373646 - 64490660 | | FALSE | TRUE |
| 11 | 64373646 - 64490660 | | FALSE | TRUE |
| 11 | 64373646 - 64490660 | | FALSE | TRUE |
| 11 | 64373646 - 64490660 | | FALSE | TRUE |
| 20 | 37075221 - 37079564 | | TRUE | TRUE |
| 20 | 37075221 - 37079564 | F - 21.74% | TRUE | TRUE |
| 6_ssto_hap7 | 4560771 - 4577055 | | TRUE | TRUE |
| 6_ssto_hap7 | 4560771 - 4577055 | T - 50.00% | TRUE | TRUE |
| 6_ssto_hap7 | 4560771 - 4577055 | | TRUE | TRUE |
| 6_ssto_hap7 | 4560771 - 4577055 | | TRUE | TRUE |
| 1 | 179068462 - 179198819 | F - 4.76% | TRUE | TRUE |
| 1 | 179068462 - 179198819 | | FALSE | TRUE |
| 2 | 54683422 - 54898583 | | TRUE | TRUE |
| 2 | 54683422 - 54898583 | F - 10.00% | FALSE | TRUE |
| 2 | 54683422 - 54898583 | F - 10.00% | FALSE | TRUE |
| 6 | 127439749 - 127518910 | F - 33.33% | TRUE | TRUE |
| 6 | 127439749 - 127518910 | F - 16.67% | TRUE | FALSE |
| 6 | 127439749 - 127518910 | F - 33.33% | TRUE | TRUE |
| 6 | 127439749 - 127518910 | F - 16.67% | TRUE | TRUE |
| 6 | 127439749 - 127518910 | | TRUE | TRUE |
| 11 | 108535752 - 108811657 | T - 77.78% | TRUE | TRUE |
| 11 | 108535752 - 108811657 | | FALSE | TRUE |
| 14 | 94547628 - 94570192 | | FALSE | TRUE |
| 14 | 94547628 - 94570192 | F - 9.09% | TRUE | TRUE |
| 14 | 94547628 - 94570192 | | TRUE | TRUE |
| 14 | 58875212 - 58894332 | T - 81.82% | TRUE | TRUE |
| 14 | 58875212 - 58894332 | | TRUE | TRUE |
| 14 | 58875212 - 58894332 | F - 18.18% | TRUE | TRUE |
| 14 | 58875212 - 58894332 | | FALSE | TRUE |
| 15 | 23255242 - 23268823 | F - 20.00% | FALSE | TRUE |
| 15 | 23255242 - 23268823 | | FALSE | TRUE |
| 15 | 23255242 - 23268823 | | TRUE | TRUE |
| 16 | 64977656 - 65156101 | F - 10.00% | TRUE | TRUE |
| 16 | 64977656 - 65156101 | F - 20.00% | TRUE | TRUE |
| 16 | 64977656 - 65156101 | T - 70.00% | TRUE | TRUE |
| 16 | 64977656 - 65156101 | | FALSE | TRUE |
| 17 | 73870245 - 73874656 | T - 100.00% | TRUE | TRUE |
| 17 | 73870245 - 73874656 | T - 100.00% | TRUE | TRUE |
| 17 | 73870245 - 73874656 | | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|------|
| 9 | 35658287 - 35661508 | F - 7.69% | FALSE | TRUE |
| 9 | 35658287 - 35661508 | | TRUE | TRUE |
| 17 | 19286755 - 19290553 | | TRUE | TRUE |
| 17 | 19286755 - 19290553 | F - 16.67% | TRUE | TRUE |
| 17 | 19286755 - 19290553 | T - 50.00% | TRUE | TRUE |
| 20 | 33543704 - 33590240 | F - 27.27% | TRUE | TRUE |
| 20 | 33543704 - 33590240 | | FALSE | TRUE |
| 3 | 3168600 - 3192563 | | FALSE | TRUE |
| 3 | 3168600 - 3192563 | F - 5.56% | TRUE | TRUE |
| 12 | 70636774 - 70748773 | F - 10.00% | TRUE | TRUE |
| 12 | 70636774 - 70748773 | | TRUE | TRUE |
| 12 | 70636774 - 70748773 | | FALSE | TRUE |
| 14 | 35514113 - 35552589 | F - 14.29% | TRUE | TRUE |
| 14 | 35514113 - 35552589 | | TRUE | TRUE |
| 15 | 28594197 - 28603226 | F - 33.33% | TRUE | TRUE |
| 15 | 28594197 - 28603226 | | FALSE | TRUE |
| 17 | 1182957 - 1204281 | T - 100.00% | FALSE | TRUE |
| 17 | 1182957 - 1204281 | | FALSE | TRUE |
| 19 | 43428284 - 43441330 | | FALSE | TRUE |
| 19 | 43428284 - 43441330 | T - 80.00% | TRUE | TRUE |
| 19 | 43428284 - 43441330 | | TRUE | TRUE |
| 19 | 43428284 - 43441330 | | TRUE | TRUE |
| 20 | 2632791 - 2639039 | | TRUE | TRUE |
| 20 | 2632791 - 2639039 | F - 13.79% | TRUE | TRUE |
| 20 | 10015689 - 10037410 | | FALSE | TRUE |
| 20 | 10015689 - 10037410 | F - 42.86% | TRUE | TRUE |
| 20 | 10015689 - 10037410 | F - 28.57% | FALSE | TRUE |
| 21 | 42792231 - 42831141 | | TRUE | TRUE |
| 21 | 42792231 - 42831141 | F - 4.55% | TRUE | TRUE |
| 21 | 42792231 - 42831141 | F - 45.45% | TRUE | TRUE |
| 21 | 42792231 - 42831141 | F - 22.73% | TRUE | TRUE |
| 21 | 42792231 - 42831141 | | TRUE | TRUE |
| 22 | 50166931 - 50221334 | | TRUE | TRUE |
| 22 | 50166931 - 50221334 | T - 83.33% | TRUE | TRUE |
| 22 | 50166931 - 50221334 | | FALSE | TRUE |
| 22 | 50166931 - 50221334 | F - 44.44% | FALSE | TRUE |
| 2 | 190425305 - 190448484 | F - 5.88% | TRUE | TRUE |
| 2 | 190425305 - 190448484 | | TRUE | TRUE |
| 2 | 190425305 - 190448484 | F - 11.76% | TRUE | TRUE |
| 3 | 134318765 - 134370478 | T - 81.82% | FALSE | TRUE |
| 3 | 134318765 - 134370478 | | FALSE | TRUE |
| 5 | 175570088 - 175626298 | | TRUE | TRUE |
| 5 | 175570088 - 175626298 | F - 37.50% | FALSE | TRUE |
| 6_mann_hap4 | 1188313 - 1191712 | T - 100.00% | TRUE | TRUE |
| 6_mann_hap4 | 1188313 - 1191712 | | TRUE | TRUE |
| 4 | 40751914 - 40812002 | T - 60.00% | FALSE | TRUE |
| 4 | 40751914 - 40812002 | | TRUE | TRUE |
| 12 | 27397078 - 27478892 | F - 28.57% | FALSE | TRUE |
| 12 | 27397078 - 27478892 | | TRUE | TRUE |
| 15 | 58245622 - 58571520 | | FALSE | TRUE |
| 15 | 58245622 - 58571520 | F - 23.08% | FALSE | TRUE |
| 15 | 90328120 - 90358094 | | TRUE | TRUE |
| 15 | 90328120 - 90358094 | T - 50.00% | TRUE | TRUE |
| 15 | 90328120 - 90358094 | | TRUE | TRUE |
| 15 | 90328120 - 90358094 | F - 25.00% | TRUE | TRUE |
| 16 | 53468351 - 53525560 | | FALSE | TRUE |
| 16 | 53468351 - 53525560 | T - 100.00% | TRUE | TRUE |
| 17 | 77906143 - 78009647 | F - 12.50% | FALSE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 17 | 77906143 - 78009647 | | FALSE | TRUE |
| 1 | 111822681 - 111828738 | T - 50.00% | FALSE | TRUE |
| 1 | 111822681 - 111828738 | | FALSE | TRUE |
| 1 | 150039342 - 150117505 | | TRUE | TRUE |
| 1 | 150039342 - 150117505 | F - 4.76% | TRUE | TRUE |
| 1 | 150768684 - 150780917 | F - 16.67% | TRUE | TRUE |
| 1 | 150768684 - 150780917 | F - 33.33% | TRUE | TRUE |
| 1 | 150768684 - 150780917 | | TRUE | TRUE |
| 1 | 150768684 - 150780917 | | TRUE | FALSE |
| 1 | 150768684 - 150780917 | F - 16.67% | TRUE | TRUE |
| 1 | 150768684 - 150780917 | | TRUE | TRUE |
| 6 | 37137922 - 37143204 | | TRUE | TRUE |
| 6 | 37137922 - 37143204 | F - 28.57% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | | TRUE | TRUE |
| 12 | 56229214 - 56236735 | | TRUE | TRUE |
| 12 | 56229214 - 56236735 | F - 11.11% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | T - 55.56% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | | TRUE | TRUE |
| 12 | 56229214 - 56236735 | T - 55.56% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | T - 66.67% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | F - 11.11% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | | TRUE | TRUE |
| 12 | 56229214 - 56236735 | F - 44.44% | TRUE | TRUE |
| 12 | 56229214 - 56236735 | | TRUE | TRUE |
| 15 | 77400471 - 77712464 | | TRUE | TRUE |
| 15 | 77400471 - 77712464 | F - 12.50% | TRUE | TRUE |
| 15 | 77400471 - 77712464 | | FALSE | TRUE |
| 16 | 56691855 - 56693215 | | TRUE | TRUE |
| 16 | 56691855 - 56693215 | T - 100.00% | TRUE | FALSE |
| 16 | 56691855 - 56693215 | T - 100.00% | TRUE | TRUE |
| 16 | 56691855 - 56693215 | | TRUE | TRUE |
| 16 | 56691855 - 56693215 | | TRUE | TRUE |
| 6_ssto_hap7 | 733813 - 765382 | T - 60.00% | FALSE | TRUE |
| 6_ssto_hap7 | 733813 - 765382 | | FALSE | TRUE |
| 3 | 11034410 - 11080935 | | TRUE | TRUE |
| 3 | 11034410 - 11080935 | | FALSE | TRUE |
| 3 | 11034410 - 11080935 | T - 62.50% | FALSE | TRUE |
| 4 | 142240604 - 142253772 | F - 33.33% | TRUE | TRUE |
| 4 | 142240604 - 142253772 | | TRUE | TRUE |
| 10 | 125673090 - 125691113 | T - 100.00% | TRUE | TRUE |
| 10 | 125673090 - 125691113 | T - 100.00% | FALSE | TRUE |
| 10 | 125673090 - 125691113 | | TRUE | TRUE |
| 3 | 197615946 - 197687013 | | FALSE | TRUE |
| 3 | 197615946 - 197687013 | F - 11.11% | TRUE | TRUE |
| 3 | 197615946 - 197687013 | F - 5.56% | FALSE | TRUE |
| 3 | 9834179 - 9848789 | F - 7.14% | TRUE | TRUE |
| 3 | 9834179 - 9848789 | | FALSE | TRUE |
| 1 | 42921788 - 42926086 | | FALSE | TRUE |
| 1 | 42921788 - 42926086 | T - 75.00% | TRUE | TRUE |
| 2 | 73481810 - 73511559 | T - 57.14% | FALSE | TRUE |
| 2 | 73481810 - 73511559 | | FALSE | TRUE |
| 2 | 73481810 - 73511559 | F - 14.29% | FALSE | TRUE |
| 2 | 73481810 - 73511559 | F - 14.29% | TRUE | TRUE |
| 2 | 73481810 - 73511559 | | TRUE | TRUE |
| 5 | 167718656 - 167899308 | | TRUE | TRUE |
| 5 | 167718656 - 167899308 | F - 4.76% | TRUE | TRUE |
| 8 | 18027971 - 18081198 | F - 9.09% | TRUE | TRUE |
| 8 | 18027971 - 18081198 | F - 13.64% | FALSE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|------|
| | 8 | 18027971 - 18081198 | | TRUE | TRUE |
| | 9 | 22446840 - 22452472 | T - 100.00% | TRUE | TRUE |
| | 9 | 22446840 - 22452472 | | TRUE | TRUE |
| | 1 | 10490159 - 10512210 | F - 25.00% | FALSE | TRUE |
| | 1 | 10490159 - 10512210 | | FALSE | TRUE |
| | 3 | 125822408 - 125916837 | | FALSE | TRUE |
| | 3 | 125822408 - 125916837 | T - 68.00% | TRUE | TRUE |
| | 11 | 16634679 - 16779901 | | FALSE | TRUE |
| | 11 | 16634679 - 16779901 | F - 11.11% | FALSE | TRUE |
| | 14 | 52781016 - 52795324 | | TRUE | TRUE |
| | 14 | 52781016 - 52795324 | T - 50.00% | TRUE | TRUE |
| | 3 | 50595456 - 50608458 | F - 44.44% | TRUE | TRUE |
| | 3 | 50595456 - 50608458 | T - 83.33% | TRUE | TRUE |
| | 3 | 50595456 - 50608458 | | FALSE | TRUE |
| | 7 | 97481429 - 97501854 | F - 4.00% | FALSE | TRUE |
| | 7 | 97481429 - 97501854 | F - 4.00% | FALSE | TRUE |
| | 7 | 97481429 - 97501854 | F - 4.00% | TRUE | TRUE |
| | 7 | 97481429 - 97501854 | | TRUE | TRUE |
| | 7 | 97481429 - 97501854 | F - 8.00% | TRUE | TRUE |
| | 7 | 97481429 - 97501854 | F - 4.00% | TRUE | TRUE |
| | 7 | 97481429 - 97501854 | F - 4.00% | FALSE | TRUE |
| | 19 | 43568362 - 43586893 | T - 83.33% | TRUE | TRUE |
| | 19 | 43568362 - 43586893 | | FALSE | TRUE |
| | 19 | 43568362 - 43586893 | | FALSE | TRUE |
| | 1 | 231154704 - 231175995 | F - 16.67% | TRUE | TRUE |
| | 1 | 231154704 - 231175995 | | FALSE | TRUE |
| | 1 | 115590632 - 115632121 | F - 12.50% | TRUE | TRUE |
| | 1 | 115590632 - 115632121 | T - 62.50% | TRUE | TRUE |
| | 1 | 115590632 - 115632121 | | TRUE | TRUE |
| | 1 | 175126123 - 175162229 | T - 50.00% | TRUE | TRUE |
| | 1 | 175126123 - 175162229 | F - 33.33% | TRUE | TRUE |
| | 1 | 175126123 - 175162229 | | TRUE | TRUE |
| | 1 | 175126123 - 175162229 | T - 50.00% | TRUE | TRUE |
| | 1 | 175126123 - 175162229 | | FALSE | TRUE |
| X | | 102470020 - 102472174 | T - 50.00% | TRUE | TRUE |
| X | | 102470020 - 102472174 | T - 66.67% | TRUE | TRUE |
| X | | 102470020 - 102472174 | | FALSE | TRUE |
| X | | 102470020 - 102472174 | | FALSE | TRUE |
| X | | 102470020 - 102472174 | F - 33.33% | TRUE | TRUE |
| X | | 102470020 - 102472174 | T - 100.00% | TRUE | TRUE |
| X | | 102470020 - 102472174 | | TRUE | TRUE |
| | 17 | 43299292 - 43324686 | F - 30.00% | FALSE | TRUE |
| | 17 | 43299292 - 43324686 | | FALSE | TRUE |
| | 3 | 58318607 - 58411748 | | TRUE | TRUE |
| | 3 | 58318607 - 58411748 | F - 36.00% | TRUE | TRUE |
| | 11 | 34127111 - 34168458 | T - 100.00% | TRUE | TRUE |
| | 11 | 34127111 - 34168458 | | FALSE | TRUE |
| | 12 | 6961285 - 6975795 | T - 100.00% | TRUE | TRUE |
| | 12 | 6961285 - 6975795 | | FALSE | TRUE |
| | 3 | 67705121 - 67998137 | T - 75.00% | TRUE | TRUE |
| | 3 | 67705121 - 67998137 | | FALSE | TRUE |
| | 15 | 85144236 - 85171027 | F - 20.83% | FALSE | TRUE |
| | 15 | 85144236 - 85171027 | | FALSE | TRUE |
| | 15 | 85144236 - 85171027 | | FALSE | TRUE |
| | 22 | 19929130 - 19957498 | | TRUE | TRUE |
| | 22 | 19929130 - 19957498 | F - 9.09% | TRUE | TRUE |
| | 2 | 95752952 - 95787754 | | TRUE | TRUE |
| | 2 | 95752952 - 95787754 | F - 10.00% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 2 | 95752952 - 95787754 | F - 20.00% | TRUE | TRUE |
| 5 | 172841038 - 172878168 | | TRUE | FALSE |
| 5 | 172841038 - 172878168 | T - 100.00% | FALSE | TRUE |
| 5 | 93486556 - 93954309 | T - 60.00% | TRUE | TRUE |
| 5 | 93486556 - 93954309 | | TRUE | TRUE |
| 5 | 93486556 - 93954309 | | TRUE | TRUE |
| 6 | 33080228 - 33096890 | | TRUE | TRUE |
| 6 | 33080228 - 33096890 | F - 33.33% | TRUE | TRUE |
| 6 | 33080228 - 33096890 | | TRUE | TRUE |
| 10 | 70242090 - 70287280 | F - 33.33% | TRUE | TRUE |
| 10 | 70242090 - 70287280 | | FALSE | TRUE |
| 10 | 70242090 - 70287280 | | FALSE | TRUE |
| 22 | 51017378 - 51039884 | T - 70.59% | TRUE | TRUE |
| 22 | 51017378 - 51039884 | | FALSE | TRUE |
| 3 | 179065480 - 179112719 | F - 12.50% | TRUE | TRUE |
| 3 | 179065480 - 179112719 | | FALSE | TRUE |
| 11 | 31806340 - 31839509 | | FALSE | TRUE |
| 11 | 31806340 - 31839509 | F - 2.78% | FALSE | TRUE |
| 9 | 108320411 - 108403399 | F - 6.67% | TRUE | TRUE |
| 9 | 108320411 - 108403399 | | FALSE | TRUE |
| 9 | 108320411 - 108403399 | | TRUE | TRUE |
| 1 | 151584514 - 151671567 | | TRUE | TRUE |
| 1 | 151584514 - 151671567 | F - 23.08% | TRUE | TRUE |
| 1 | 151584514 - 151671567 | T - 84.62% | FALSE | TRUE |
| Un_gl000219 | 51812 - 99642 | | TRUE | TRUE |
| Un_gl000219 | 51812 - 99642 | T - 75.00% | TRUE | TRUE |
| 6 | 168456425 - 168482237 | | TRUE | TRUE |
| 6 | 168456425 - 168482237 | F - 6.25% | FALSE | TRUE |
| 6 | 168456425 - 168482237 | | FALSE | TRUE |
| 1 | 52254863 - 52344609 | F - 33.33% | FALSE | TRUE |
| 1 | 52254863 - 52344609 | | TRUE | TRUE |
| 1 | 52254863 - 52344609 | | FALSE | TRUE |
| 20 | 35518632 - 35580246 | F - 16.67% | TRUE | TRUE |
| 20 | 35518632 - 35580246 | | TRUE | TRUE |
| 7 | 127881331 - 127897682 | T - 60.00% | TRUE | TRUE |
| 7 | 127881331 - 127897682 | | TRUE | TRUE |
| 7 | 108194987 - 108210194 | | TRUE | TRUE |
| 7 | 108194987 - 108210194 | F - 16.67% | FALSE | TRUE |
| 1 | 186265405 - 186283694 | | TRUE | FALSE |
| 1 | 186265405 - 186283694 | T - 72.73% | TRUE | TRUE |
| 4 | 79567057 - 79605655 | F - 8.33% | FALSE | TRUE |
| 4 | 79567057 - 79605655 | | FALSE | TRUE |
| 9 | 36136730 - 36163910 | | FALSE | TRUE |
| 9 | 36136730 - 36163910 | F - 9.09% | TRUE | TRUE |
| 9 | 36136730 - 36163910 | | FALSE | TRUE |
| 9 | 36136730 - 36163910 | F - 18.18% | TRUE | TRUE |
| 19 | 39514663 - 39523198 | | TRUE | TRUE |
| 19 | 39514663 - 39523198 | T - 50.00% | TRUE | TRUE |
| 6 | 143380500 - 143661441 | | TRUE | TRUE |
| 6 | 143380500 - 143661441 | F - 5.88% | TRUE | TRUE |
| 6 | 143380500 - 143661441 | F - 17.65% | TRUE | TRUE |
| 6 | 143380500 - 143661441 | F - 29.41% | TRUE | TRUE |
| 6 | 143380500 - 143661441 | F - 11.76% | TRUE | TRUE |
| 6 | 143380500 - 143661441 | F - 5.88% | TRUE | TRUE |
| 2 | 114341205 - 114356613 | | TRUE | TRUE |
| 2 | 114341205 - 114356613 | F - 12.50% | FALSE | TRUE |
| 7 | 140218220 - 140373793 | | FALSE | TRUE |
| 7 | 140218220 - 140373793 | T - 73.33% | FALSE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 7 | 140218220 - 140373793 | T - 73.33% | TRUE | TRUE |
| 7 | 140218220 - 140373793 | | FALSE | TRUE |
| 9 | 109040673 - 109367076 | | TRUE | TRUE |
| 9 | 109040673 - 109367076 | T - 50.00% | TRUE | TRUE |
| 9 | 109040673 - 109367076 | T - 50.00% | TRUE | TRUE |
| 9 | 109040673 - 109367076 | T - 50.00% | FALSE | TRUE |
| 1 | 165600098 - 165631033 | F - 5.88% | TRUE | TRUE |
| 1 | 165600098 - 165631033 | | FALSE | TRUE |
| 3 | 30647994 - 30735634 | | TRUE | TRUE |
| 3 | 30647994 - 30735634 | F - 14.29% | FALSE | TRUE |
| 3 | 30647994 - 30735634 | F - 14.29% | TRUE | TRUE |
| 8 | 99202061 - 99306621 | F - 35.71% | FALSE | TRUE |
| 8 | 99202061 - 99306621 | | FALSE | TRUE |
| 2 | 86066267 - 86116157 | | TRUE | FALSE |
| 2 | 86066267 - 86116157 | F - 4.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 9.09% | TRUE | FALSE |
| 2 | 86066267 - 86116157 | | TRUE | FALSE |
| 2 | 86066267 - 86116157 | F - 27.27% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 18.18% | TRUE | FALSE |
| 2 | 86066267 - 86116157 | | TRUE | FALSE |
| 2 | 86066267 - 86116157 | F - 4.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 22.73% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 31.82% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | T - 54.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | | FALSE | TRUE |
| 2 | 86066267 - 86116157 | F - 27.27% | TRUE | FALSE |
| 2 | 86066267 - 86116157 | F - 36.36% | TRUE | FALSE |
| 2 | 86066267 - 86116157 | F - 4.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 22.73% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 4.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 4.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | T - 50.00% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 13.64% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | | TRUE | TRUE |
| 2 | 86066267 - 86116157 | | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 18.18% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | F - 4.55% | TRUE | TRUE |
| 2 | 86066267 - 86116157 | | FALSE | TRUE |
| 5 | 1567597 - 1594735 | | TRUE | TRUE |
| 5 | 1567597 - 1594735 | F - 40.00% | TRUE | TRUE |
| 16 | 21845890 - 21890744 | | TRUE | TRUE |
| 16 | 21845890 - 21890744 | F - 15.38% | TRUE | TRUE |
| 17 | 4851387 - 4860426 | T - 56.52% | TRUE | TRUE |
| 17 | 4851387 - 4860426 | F - 39.13% | TRUE | TRUE |
| 17 | 4851387 - 4860426 | | TRUE | TRUE |
| 22 | 43088127 - 43117304 | T - 64.29% | TRUE | TRUE |
| 22 | 43088127 - 43117304 | F - 7.14% | FALSE | TRUE |
| 22 | 43088127 - 43117304 | | TRUE | TRUE |
| 4 | 74718906 - 74720198 | | TRUE | TRUE |
| 4 | 74718906 - 74720198 | T - 100.00% | FALSE | TRUE |
| 4 | 47452811 - 47465736 | F - 25.00% | FALSE | TRUE |
| 4 | 47452811 - 47465736 | | FALSE | TRUE |
| 11 | 5617331 - 5634188 | T - 52.17% | FALSE | TRUE |
| 11 | 5617331 - 5634188 | | FALSE | TRUE |
| 16 | 89894907 - 89937727 | T - 57.14% | FALSE | TRUE |
| 16 | 89894907 - 89937727 | | FALSE | TRUE |
| 16 | 89894907 - 89937727 | | FALSE | TRUE |
| 22 | 20366206 - 20368028 | | TRUE | TRUE |

| | | | | | |
|---|----|-----------------------|-------------|-------|-------|
| | 22 | 20366206 - 20368028 | T - 100.00% | TRUE | TRUE |
| | 22 | 20366206 - 20368028 | | FALSE | TRUE |
| | 22 | 37621301 - 37640488 | F - 25.00% | TRUE | TRUE |
| | 22 | 37621301 - 37640488 | F - 37.50% | FALSE | TRUE |
| | 22 | 37621301 - 37640488 | | FALSE | TRUE |
| | 22 | 37621301 - 37640488 | | FALSE | TRUE |
| | 6 | 6144311 - 6321246 | F - 10.00% | TRUE | TRUE |
| | 6 | 6144311 - 6321246 | F - 30.00% | TRUE | TRUE |
| | 6 | 6144311 - 6321246 | F - 20.00% | TRUE | TRUE |
| | 6 | 6144311 - 6321246 | F - 10.00% | TRUE | TRUE |
| | 6 | 6144311 - 6321246 | T - 80.00% | TRUE | TRUE |
| | 6 | 6144311 - 6321246 | F - 10.00% | TRUE | TRUE |
| | 6 | 6144311 - 6321246 | T - 70.00% | FALSE | TRUE |
| | 6 | 6144311 - 6321246 | | FALSE | TRUE |
| | 11 | 114310108 - 114321001 | | FALSE | TRUE |
| | 11 | 114310108 - 114321001 | F - 9.09% | TRUE | TRUE |
| | 4 | 110481355 - 110609874 | T - 75.00% | TRUE | TRUE |
| | 4 | 110481355 - 110609874 | | TRUE | TRUE |
| | 4 | 110481355 - 110609874 | F - 12.50% | FALSE | TRUE |
| | 4 | 110481355 - 110609874 | F - 25.00% | FALSE | TRUE |
| | 4 | 110481355 - 110609874 | T - 62.50% | TRUE | TRUE |
| | 4 | 110481355 - 110609874 | F - 12.50% | TRUE | TRUE |
| | 9 | 33617760 - 33618504 | T - 100.00% | TRUE | TRUE |
| | 9 | 33617760 - 33618504 | | TRUE | TRUE |
| | 9 | 33617760 - 33618504 | T - 100.00% | FALSE | TRUE |
| | 10 | 44793038 - 44881941 | F - 21.43% | TRUE | FALSE |
| | 10 | 44793038 - 44881941 | F - 28.57% | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | F - 21.43% | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | T - 85.71% | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | F - 7.14% | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | F - 14.29% | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | F - 7.14% | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | | TRUE | TRUE |
| | 10 | 44793038 - 44881941 | | FALSE | TRUE |
| | 10 | 44793038 - 44881941 | F - 7.14% | FALSE | TRUE |
| | 1 | 77333126 - 77531396 | T - 70.00% | TRUE | TRUE |
| | 1 | 77333126 - 77531396 | | TRUE | TRUE |
| | 22 | 45809572 - 45828376 | | TRUE | TRUE |
| | 22 | 45809572 - 45828376 | T - 85.71% | TRUE | TRUE |
| | 12 | 29653746 - 29937692 | F - 7.14% | TRUE | TRUE |
| | 12 | 29653746 - 29937692 | | FALSE | TRUE |
| | 22 | 27672201 - 27682310 | T - 100.00% | TRUE | TRUE |
| | 22 | 27672201 - 27682310 | | FALSE | TRUE |
| X | | 2822011 - 2847416 | T - 50.00% | FALSE | TRUE |
| X | | 2822011 - 2847416 | | FALSE | TRUE |
| | 6 | 52804524 - 52810263 | T - 100.00% | TRUE | TRUE |
| | 6 | 52804524 - 52810263 | | TRUE | TRUE |
| X | | 78003206 - 78012591 | F - 12.50% | FALSE | TRUE |
| X | | 78003206 - 78012591 | | FALSE | TRUE |
| | 12 | 123743581 - 123756881 | F - 12.50% | TRUE | TRUE |
| | 12 | 123743581 - 123756881 | | FALSE | TRUE |
| | 4 | 148402069 - 148466106 | | TRUE | TRUE |
| | 4 | 148402069 - 148466106 | | TRUE | FALSE |
| | 4 | 148402069 - 148466106 | T - 60.00% | TRUE | TRUE |
| | 4 | 148402069 - 148466106 | T - 53.33% | TRUE | TRUE |
| | 4 | 148402069 - 148466106 | | TRUE | TRUE |
| | 4 | 148402069 - 148466106 | F - 6.67% | TRUE | TRUE |

| | | | | |
|------------|-----------------------|-------------|-------|-------|
| 6_apd_hap1 | 1135922 - 1139325 | T - 100.00% | TRUE | TRUE |
| 6_apd_hap1 | 1135922 - 1139325 | | TRUE | TRUE |
| 6_cox_hap2 | 1407786 - 1411189 | T - 100.00% | TRUE | TRUE |
| 6_cox_hap2 | 1407786 - 1411189 | | TRUE | TRUE |
| 19 | 53569867 - 53606687 | | FALSE | TRUE |
| 19 | 53569867 - 53606687 | T - 100.00% | TRUE | TRUE |
| 14 | 65472892 - 65569408 | | TRUE | TRUE |
| 14 | 65472892 - 65569408 | F - 37.50% | TRUE | TRUE |
| 14 | 65472892 - 65569408 | F - 41.67% | TRUE | TRUE |
| 14 | 65472892 - 65569408 | | FALSE | TRUE |
| 2 | 120932461 - 120974120 | | FALSE | TRUE |
| 2 | 120932461 - 120974120 | T - 100.00% | FALSE | TRUE |
| 9 | 95255829 - 95298937 | | FALSE | TRUE |
| 9 | 95255829 - 95298937 | F - 8.33% | TRUE | TRUE |
| 6_apd_hap1 | 4367057 - 4383650 | | TRUE | TRUE |
| 6_apd_hap1 | 4367057 - 4383650 | T - 50.00% | TRUE | TRUE |
| 6_apd_hap1 | 4367057 - 4383650 | | TRUE | TRUE |
| 1 | 203764751 - 203823256 | T - 65.22% | TRUE | TRUE |
| 1 | 203764751 - 203823256 | | FALSE | TRUE |
| 4 | 121956768 - 121994176 | F - 16.67% | TRUE | TRUE |
| 4 | 121956768 - 121994176 | | TRUE | FALSE |
| 4 | 121956768 - 121994176 | F - 33.33% | TRUE | TRUE |
| 4 | 121956768 - 121994176 | F - 16.67% | FALSE | TRUE |
| 4 | 121956768 - 121994176 | F - 16.67% | TRUE | TRUE |
| 4 | 121956768 - 121994176 | | TRUE | TRUE |
| 4 | 121956768 - 121994176 | | FALSE | TRUE |
| 4 | 121956768 - 121994176 | F - 16.67% | TRUE | TRUE |
| 3 | 189838753 - 189862635 | | TRUE | TRUE |
| 3 | 189838753 - 189862635 | T - 100.00% | TRUE | TRUE |
| 3 | 189838753 - 189862635 | | FALSE | TRUE |
| 5 | 2752245 - 2755511 | T - 57.14% | TRUE | TRUE |
| 5 | 2752245 - 2755511 | | FALSE | TRUE |
| 12 | 64078523 - 64109256 | T - 100.00% | TRUE | TRUE |
| 12 | 64078523 - 64109256 | | FALSE | TRUE |
| 12 | 64078523 - 64109256 | | FALSE | TRUE |
| 11 | 112097088 - 112140678 | F - 14.29% | FALSE | TRUE |
| 11 | 112097088 - 112140678 | | FALSE | TRUE |
| 1 | 209848670 - 209849735 | | FALSE | TRUE |
| 1 | 209848670 - 209849735 | T - 75.00% | TRUE | TRUE |
| 22 | 38092995 - 38172563 | | FALSE | TRUE |
| 22 | 38092995 - 38172563 | F - 36.84% | TRUE | TRUE |
| 22 | 38092995 - 38172563 | F - 36.84% | FALSE | TRUE |
| 22 | 38092995 - 38172563 | F - 36.84% | FALSE | TRUE |
| 22 | 38092995 - 38172563 | | FALSE | TRUE |
| 9 | 132094579 - 132121817 | F - 25.00% | TRUE | TRUE |
| 9 | 132094579 - 132121817 | F - 25.00% | TRUE | TRUE |
| 9 | 132094579 - 132121817 | | TRUE | TRUE |
| 9 | 132094579 - 132121817 | F - 25.00% | TRUE | TRUE |
| 9 | 132094579 - 132121817 | T - 50.00% | TRUE | TRUE |
| 11 | 10578513 - 10633236 | F - 16.67% | TRUE | FALSE |
| 11 | 10578513 - 10633236 | | TRUE | TRUE |
| 6_dbb_hap3 | 1189068 - 1192469 | | TRUE | TRUE |
| 6_dbb_hap3 | 1189068 - 1192469 | T - 100.00% | TRUE | TRUE |
| 6_dbb_hap3 | 1189068 - 1192469 | | FALSE | TRUE |
| 19 | 18704035 - 18717660 | | TRUE | FALSE |
| 19 | 18704035 - 18717660 | | TRUE | TRUE |
| 19 | 18704035 - 18717660 | T - 66.67% | TRUE | FALSE |
| 19 | 18704035 - 18717660 | T - 100.00% | TRUE | TRUE |

| | | | | |
|-------------|-----------------------|-------------|-------|-------|
| 19 | 18704035 - 18717660 | T - 100.00% | TRUE | TRUE |
| 21 | 38996786 - 39288749 | F - 20.00% | TRUE | TRUE |
| 21 | 38996786 - 39288749 | T - 60.00% | TRUE | TRUE |
| 21 | 38996786 - 39288749 | | TRUE | TRUE |
| 4 | 170907748 - 170954182 | F - 13.33% | TRUE | TRUE |
| 4 | 170907748 - 170954182 | | TRUE | FALSE |
| 4 | 170907748 - 170954182 | | TRUE | TRUE |
| 4 | 170907748 - 170954182 | F - 6.67% | TRUE | TRUE |
| 4 | 170907748 - 170954182 | | TRUE | TRUE |
| 4 | 170907748 - 170954182 | F - 40.00% | TRUE | TRUE |
| 4 | 170907748 - 170954182 | F - 6.67% | FALSE | TRUE |
| 4 | 170907748 - 170954182 | F - 13.33% | FALSE | TRUE |
| 4 | 170907748 - 170954182 | | TRUE | TRUE |
| 4 | 170907748 - 170954182 | | TRUE | TRUE |
| 4 | 170907748 - 170954182 | | TRUE | TRUE |
| 4 | 170907748 - 170954182 | F - 6.67% | TRUE | TRUE |
| 4 | 170907748 - 170954182 | | FALSE | TRUE |
| 4 | 170907748 - 170954182 | | FALSE | TRUE |
| 4 | 170907748 - 170954182 | F - 13.33% | FALSE | TRUE |
| 4 | 170907748 - 170954182 | | TRUE | TRUE |
| 15 | 57669344 - 57699476 | | FALSE | TRUE |
| 15 | 57669344 - 57699476 | T - 100.00% | TRUE | TRUE |
| 14 | 90742580 - 90798481 | | FALSE | TRUE |
| 14 | 90742580 - 90798481 | | FALSE | TRUE |
| 14 | 90742580 - 90798481 | T - 75.00% | FALSE | TRUE |
| 3 | 45123769 - 45187914 | T - 83.33% | FALSE | TRUE |
| 3 | 45123769 - 45187914 | F - 33.33% | FALSE | TRUE |
| 3 | 45123769 - 45187914 | T - 100.00% | FALSE | TRUE |
| 3 | 45123769 - 45187914 | | FALSE | TRUE |
| 16 | 86563782 - 86600008 | T - 60.00% | TRUE | TRUE |
| 16 | 86563782 - 86600008 | | FALSE | TRUE |
| 6_ssto_hap7 | 1225317 - 1228720 | | TRUE | TRUE |
| 6_ssto_hap7 | 1225317 - 1228720 | T - 100.00% | TRUE | TRUE |
| 6_ssto_hap7 | 1225317 - 1228720 | | FALSE | TRUE |
| 6_apd_hap1 | 4076763 - 4093559 | F - 12.50% | FALSE | TRUE |
| 6_apd_hap1 | 4076763 - 4093559 | | FALSE | TRUE |
| 6_dbb_hap3 | 4071136 - 4087933 | F - 12.50% | FALSE | TRUE |
| 6_dbb_hap3 | 4071136 - 4087933 | | FALSE | TRUE |
| 6_ssto_hap7 | 4220533 - 4237328 | F - 12.50% | FALSE | TRUE |
| 6_ssto_hap7 | 4220533 - 4237328 | | FALSE | TRUE |
| 6 | 32789610 - 32806557 | F - 12.50% | FALSE | TRUE |
| 6 | 32789610 - 32806557 | | FALSE | TRUE |
| 6_mann_hap4 | 4246806 - 4263754 | F - 12.50% | FALSE | TRUE |
| 6_mann_hap4 | 4246806 - 4263754 | | FALSE | TRUE |
| 6_mcf_hap5 | 4126506 - 4143432 | F - 12.50% | FALSE | TRUE |
| 6_mcf_hap5 | 4126506 - 4143432 | | FALSE | TRUE |
| 6_qbl_hap6 | 4021717 - 4038665 | F - 12.50% | FALSE | TRUE |
| 6_qbl_hap6 | 4021717 - 4038665 | | FALSE | TRUE |
| 6_cox_hap2 | 4234140 - 4251085 | F - 12.50% | FALSE | TRUE |
| 6_cox_hap2 | 4234140 - 4251085 | | FALSE | TRUE |
| 12 | 42850560 - 42984157 | | TRUE | TRUE |
| 12 | 42850560 - 42984157 | F - 46.15% | TRUE | TRUE |
| 12 | 42850560 - 42984157 | F - 23.08% | TRUE | TRUE |
| 12 | 42850560 - 42984157 | F - 15.38% | TRUE | TRUE |
| 12 | 42850560 - 42984157 | F - 7.69% | TRUE | TRUE |
| 12 | 42850560 - 42984157 | | TRUE | TRUE |
| 12 | 42850560 - 42984157 | F - 23.08% | TRUE | TRUE |
| 12 | 42850560 - 42984157 | | TRUE | TRUE |

| | | | | |
|----|-----------------------|-------------|-------|-------|
| 12 | 42850560 - 42984157 | | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 33.33% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | | TRUE | FALSE |
| 10 | 12938625 - 13141713 | | TRUE | TRUE |
| 10 | 12938625 - 13141713 | | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 11.11% | FALSE | TRUE |
| 10 | 12938625 - 13141713 | F - 44.44% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 44.44% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 22.22% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 11.11% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 11.11% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 11.11% | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 22.22% | FALSE | TRUE |
| 10 | 12938625 - 13141713 | | TRUE | TRUE |
| 10 | 12938625 - 13141713 | F - 11.11% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | F - 7.69% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | F - 30.77% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | F - 7.69% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | F - 7.69% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | F - 23.08% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | F - 7.69% | TRUE | TRUE |
| 1 | 109852188 - 109940573 | | TRUE | TRUE |
| 1 | 109852188 - 109940573 | | FALSE | TRUE |
| 1 | 109852188 - 109940573 | | FALSE | TRUE |
| 1 | 109852188 - 109940573 | F - 7.69% | FALSE | TRUE |
| 3 | 195295573 - 195311076 | | TRUE | TRUE |
| 3 | 195295573 - 195311076 | F - 14.29% | TRUE | FALSE |
| 3 | 195295573 - 195311076 | F - 14.29% | TRUE | TRUE |
| 3 | 195295573 - 195311076 | F - 14.29% | TRUE | TRUE |
| 3 | 195295573 - 195311076 | | TRUE | TRUE |
| 12 | 54392806 - 54393794 | | FALSE | TRUE |
| 12 | 54392806 - 54393794 | T - 50.00% | TRUE | TRUE |
| 1 | 114522030 - 114524876 | | TRUE | TRUE |
| 1 | 114522030 - 114524876 | F - 37.50% | TRUE | TRUE |
| 3 | 12194551 - 12200851 | T - 100.00% | TRUE | TRUE |
| 3 | 12194551 - 12200851 | | TRUE | TRUE |

| 6 PSR/JUC Expressed (Detail) | 4 PSR/JUC Expressed | 6 Bi-weight Avg Signal | 4 Bi-weight Avg Signal |
|------------------------------|---------------------|------------------------|------------------------|
| 1/1 | 0/1 | 10.47 | 2.41 |
| 1/1 | 1/1 | 6.43 | 8.78 |
| 1/1 | 0/1 | 8.59 | 1.8 |
| 1/1 | 1/1 | 9.46 | 6.38 |
| 1/1 | 0/1 | 4.15 | 2.36 |
| 1/1 | 1/1 | 9.23 | 7.7 |
| 1/1 | 1/1 | 6.91 | 9.51 |
| 1/1 | 1/1 | 2.9 | 5.65 |
| 0/1 | 1/1 | 3.43 | 6.81 |
| 1/1 | 1/1 | 9.54 | 3.71 |
| 1/1 | 0/1 | 2.41 | 1.86 |
| 1/1 | 1/1 | 4.46 | 6.31 |
| 1/1 | 0/1 | 6.04 | 3.66 |
| 1/1 | 1/1 | 6.71 | 5.78 |
| 1/1 | 1/1 | 4.42 | 4.21 |
| 1/1 | 1/1 | 5.9 | 5.81 |
| 1/1 | 1/1 | 4.89 | 4.88 |
| 0/1 | 1/1 | 2.22 | 2.24 |
| 1/1 | 1/1 | 5.31 | 5.56 |
| 0/1 | 1/1 | 2.96 | 3.4 |
| 0/1 | 1/1 | 2.72 | 3.46 |
| 1/1 | 1/1 | 2.99 | 3.96 |
| 0/1 | 1/1 | 2.09 | 3.54 |
| 0/1 | 1/1 | 3.03 | 4.74 |
| 1/1 | 1/1 | 2.97 | 4.8 |
| 0/1 | 1/1 | 4.06 | 6.07 |
| 0/1 | 1/1 | 2.53 | 4.6 |
| 1/1 | 1/1 | 4.51 | 7.16 |
| 0/1 | 1/1 | 1.85 | 6.94 |
| 0/1 | 1/1 | 3.25 | 8.35 |
| 1/1 | 0/1 | 10.33 | 2.86 |
| 1/1 | 1/1 | 9.07 | 5.44 |
| 1/1 | 0/1 | 5.49 | 2.05 |
| 1/1 | 1/1 | 7.05 | 3.79 |
| 1/1 | 1/1 | 6.8 | 3.54 |
| 1/1 | 1/1 | 6.98 | 3.74 |
| 1/1 | 1/1 | 7.75 | 4.74 |
| 1/1 | 0/1 | 5.27 | 2.41 |
| 1/1 | 0/1 | 4.56 | 1.87 |
| 1/1 | 1/1 | 9.87 | 7.21 |
| 1/1 | 1/1 | 6.48 | 3.83 |
| 1/1 | 1/1 | 8.18 | 5.59 |
| 1/1 | 1/1 | 7.5 | 7.48 |
| 0/1 | 1/1 | 4.14 | 4.22 |
| 0/1 | 1/1 | 2.9 | 3.04 |
| 1/1 | 1/1 | 6.99 | 7.25 |
| 0/1 | 1/1 | 2.4 | 2.72 |
| 1/1 | 0/1 | 5.37 | 4.56 |
| 1/1 | 1/1 | 5.01 | 4.91 |
| 1/1 | 1/1 | 4.98 | 5.08 |
| 1/1 | 1/1 | 3.26 | 3.51 |
| 1/1 | 1/1 | 7.61 | 8.27 |
| 1/1 | 1/1 | 6.44 | 7.78 |
| 1/1 | 1/1 | 3.03 | 4.8 |
| 0/1 | 1/1 | 5.4 | 8.16 |
| 0/1 | 1/1 | 3.03 | 6.04 |
| 1/1 | 1/1 | 6.59 | 9.65 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 5.88 | 9.64 |
| 1/1 | 1/1 | 3.8 | 7.75 |
| 0/1 | 1/1 | 1.88 | 5.92 |
| 0/1 | 1/1 | 3.06 | 9.18 |
| 0/1 | 1/1 | 5.07 | 11.34 |
| 1/1 | 1/1 | 3.56 | 10.05 |
| 0/1 | 1/1 | 4.41 | 10.96 |
| 1/1 | 1/1 | 4.2 | 11.03 |
| 0/1 | 1/1 | 3.98 | 11.16 |
| 0/1 | 1/1 | 2.73 | 10.99 |
| 1/1 | 0/1 | 5.84 | 3.93 |
| 1/1 | 1/1 | 5.7 | 5.02 |
| 0/1 | 1/1 | 3.01 | 2.96 |
| 1/1 | 1/1 | 2.64 | 2.7 |
| 1/1 | 1/1 | 5.23 | 5.6 |
| 0/1 | 1/1 | 4.07 | 4.63 |
| 1/1 | 1/1 | 8.52 | 9.3 |
| 1/1 | 1/1 | 6.85 | 9.03 |
| 1/1 | 1/1 | 6.52 | 9.07 |
| 1/1 | 1/1 | 6.86 | 9.63 |
| 1/1 | 1/1 | 5.24 | 8.03 |
| 0/1 | 1/1 | 5.64 | 10.62 |
| 1/1 | 1/1 | 5.48 | 10.92 |
| 0/1 | 1/1 | 4.2 | 10.05 |
| 0/1 | 1/1 | 4.18 | 10.18 |
| 0/1 | 1/1 | 4.55 | 10.55 |
| 0/1 | 1/1 | 4.02 | 10.05 |
| 0/1 | 1/1 | 2.29 | 8.33 |
| 0/1 | 1/1 | 4.52 | 10.84 |
| 0/1 | 1/1 | 3.07 | 9.77 |
| 0/1 | 1/1 | 2.99 | 10.32 |
| 1/1 | 0/1 | 6.82 | 6.22 |
| 1/1 | 1/1 | 5.95 | 5.45 |
| 1/1 | 1/1 | 6.25 | 5.98 |
| 1/1 | 1/1 | 5.93 | 5.84 |
| 1/1 | 1/1 | 5.34 | 5.25 |
| 0/1 | 1/1 | 3.09 | 3.06 |
| 1/1 | 1/1 | 6.92 | 6.93 |
| 0/1 | 1/1 | 3.48 | 3.63 |
| 1/1 | 1/1 | 8.45 | 8.64 |
| 1/1 | 1/1 | 7.36 | 7.6 |
| 1/1 | 1/1 | 9.05 | 9.41 |
| 1/1 | 1/1 | 4.86 | 5.25 |
| 0/1 | 1/1 | 4.21 | 4.62 |
| 0/1 | 1/1 | 3.68 | 4.17 |
| 0/1 | 1/1 | 3.05 | 3.64 |
| 1/1 | 1/1 | 7.85 | 8.49 |
| 0/1 | 1/1 | 2.24 | 3.02 |
| 0/1 | 1/1 | 4.87 | 5.79 |
| 0/1 | 1/1 | 5.06 | 6.08 |
| 0/1 | 1/1 | 2.32 | 3.69 |
| 0/1 | 1/1 | 1.85 | 3.28 |
| 0/1 | 1/1 | 1.7 | 3.49 |
| 1/1 | 1/1 | 6.26 | 8.44 |
| 0/1 | 1/1 | 3.63 | 5.86 |
| 1/1 | 1/1 | 6.99 | 9.79 |
| 0/1 | 1/1 | 1.7 | 4.75 |
| 0/1 | 1/1 | 4.15 | 7.55 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.4 | 7.19 |
| 1/1 | 1/1 | 4.47 | 10.57 |
| 0/1 | 1/1 | 4.83 | 10.95 |
| 0/1 | 1/1 | 2.9 | 9.08 |
| 0/1 | 1/1 | 2.64 | 9.82 |
| 0/1 | 1/1 | 3.13 | 10.32 |
| 1/1 | 1/1 | 3.21 | 10.64 |
| 0/1 | 1/1 | 2.81 | 10.82 |
| 0/1 | 1/1 | 2.09 | 10.36 |
| 1/1 | 1/1 | 12.23 | 6.57 |
| 1/1 | 1/1 | 12.85 | 7.56 |
| 1/1 | 0/1 | 4.98 | 1.95 |
| 1/1 | 1/1 | 8.21 | 5.21 |
| 1/1 | 1/1 | 8.97 | 6.05 |
| 1/1 | 1/1 | 6.99 | 5.53 |
| 1/1 | 1/1 | 4.47 | 5.3 |
| 1/1 | 1/1 | 4.16 | 3.85 |
| 0/1 | 1/1 | 3.19 | 3.22 |
| 0/1 | 1/1 | 5.84 | 5.93 |
| 0/1 | 1/1 | 6.02 | 6.4 |
| 0/1 | 1/1 | 2.76 | 3.41 |
| 0/1 | 1/1 | 2.49 | 3.52 |
| 0/1 | 1/1 | 3.32 | 4.62 |
| 0/1 | 1/1 | 2.39 | 5.26 |
| 0/1 | 1/1 | 5.69 | 9.47 |
| 0/1 | 1/1 | 1.69 | 7.81 |
| 1/1 | 1/1 | 3.79 | 10 |
| 1/1 | 1/1 | 4.81 | 3.62 |
| 1/1 | 1/1 | 6.1 | 5.07 |
| 1/1 | 1/1 | 8.2 | 7.88 |
| 0/1 | 1/1 | 3.34 | 3.05 |
| 0/1 | 1/1 | 4.68 | 4.43 |
| 1/1 | 1/1 | 5.26 | 5.03 |
| 1/1 | 1/1 | 9.41 | 9.35 |
| 1/1 | 1/1 | 7.08 | 7.03 |
| 1/1 | 1/1 | 3.43 | 3.43 |
| 0/1 | 1/1 | 3.59 | 3.77 |
| 0/1 | 1/1 | 3.35 | 3.58 |
| 0/1 | 1/1 | 3.32 | 3.57 |
| 1/1 | 1/1 | 4.1 | 4.46 |
| 0/1 | 1/1 | 2.4 | 2.76 |
| 0/1 | 1/1 | 3.41 | 3.88 |
| 0/1 | 1/1 | 3.92 | 4.44 |
| 0/1 | 1/1 | 1.91 | 2.44 |
| 0/1 | 1/1 | 1.7 | 2.32 |
| 0/1 | 1/1 | 3.27 | 3.9 |
| 1/1 | 1/1 | 8.27 | 9.08 |
| 0/1 | 1/1 | 3.31 | 4.38 |
| 0/1 | 1/1 | 2.33 | 3.55 |
| 0/1 | 1/1 | 2.42 | 4.07 |
| 0/1 | 1/1 | 6.09 | 7.89 |
| 0/1 | 1/1 | 2.42 | 4.27 |
| 1/1 | 1/1 | 6.07 | 8.09 |
| 1/1 | 1/1 | 3.86 | 6.26 |
| 1/1 | 1/1 | 4.3 | 6.73 |
| 0/1 | 1/1 | 5.23 | 7.78 |
| 0/1 | 1/1 | 2.85 | 5.73 |
| 0/1 | 1/1 | 2.41 | 5.35 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 6.89 | 10.06 |
| 1/1 | 1/1 | 3.16 | 8.46 |
| 1/1 | 1/1 | 6.77 | 6.22 |
| 0/1 | 1/1 | 6.05 | 5.75 |
| 1/1 | 1/1 | 8.94 | 8.7 |
| 1/1 | 1/1 | 5.99 | 5.9 |
| 0/1 | 1/1 | 4.8 | 4.88 |
| 1/1 | 1/1 | 7.84 | 8.15 |
| 1/1 | 1/1 | 7.8 | 8.65 |
| 1/1 | 1/1 | 4.56 | 5.5 |
| 0/1 | 1/1 | 3.74 | 5.14 |
| 0/1 | 1/1 | 2.56 | 4.85 |
| 0/1 | 1/1 | 1.94 | 4.26 |
| 1/1 | 1/1 | 5.27 | 8.19 |
| 0/1 | 1/1 | 5 | 8.07 |
| 0/1 | 1/1 | 2.73 | 6.29 |
| 0/1 | 1/1 | 2.81 | 9.13 |
| 0/1 | 1/1 | 3.11 | 3.29 |
| 0/1 | 1/1 | 3.27 | 3.48 |
| 1/1 | 1/1 | 3.96 | 4.34 |
| 0/1 | 1/1 | 2.95 | 3.85 |
| 0/1 | 1/1 | 2.4 | 3.32 |
| 1/1 | 1/1 | 8.27 | 9.87 |
| 0/1 | 1/1 | 2.43 | 4.41 |
| 1/1 | 1/1 | 3.48 | 5.62 |
| 1/1 | 1/1 | 4.94 | 7.09 |
| 1/1 | 1/1 | 6.48 | 8.67 |
| 0/1 | 1/1 | 2.36 | 4.64 |
| 0/1 | 1/1 | 2.72 | 5.17 |
| 0/1 | 1/1 | 2.18 | 4.97 |
| 1/1 | 1/1 | 4.39 | 7.19 |
| 0/1 | 1/1 | 3.24 | 6.08 |
| 0/1 | 1/1 | 3.24 | 6.18 |
| 1/1 | 1/1 | 4.04 | 7.01 |
| 0/1 | 1/1 | 2.24 | 6.02 |
| 0/1 | 1/1 | 6.37 | 10.34 |
| 1/1 | 1/1 | 8.52 | 12.67 |
| 0/1 | 1/1 | 2.81 | 6.98 |
| 0/1 | 1/1 | 2.34 | 6.53 |
| 1/1 | 1/1 | 4.22 | 8.51 |
| 0/1 | 1/1 | 2.54 | 8.94 |
| 1/1 | 1/1 | 4.3 | 10.82 |
| 0/1 | 1/1 | 3.06 | 9.62 |
| 1/1 | 1/1 | 4.15 | 10.73 |
| 1/1 | 1/1 | 3.81 | 10.77 |
| 1/1 | 0/1 | 8.85 | 2.68 |
| 1/1 | 0/1 | 7.72 | 2.6 |
| 1/1 | 1/1 | 9.76 | 5.21 |
| 1/1 | 0/1 | 8.06 | 3.56 |
| 1/1 | 1/1 | 7.16 | 3.13 |
| 1/1 | 1/1 | 9.12 | 5.28 |
| 1/1 | 0/1 | 6.75 | 3.33 |
| 1/1 | 1/1 | 7.55 | 4.56 |
| 1/1 | 1/1 | 7.92 | 5.05 |
| 1/1 | 1/1 | 7.74 | 4.89 |
| 1/1 | 0/1 | 6.45 | 3.61 |
| 1/1 | 0/1 | 6.43 | 3.59 |
| 1/1 | 1/1 | 6.72 | 3.9 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 6.44 | 3.65 |
| 1/1 | 1/1 | 8.95 | 6.36 |
| 1/1 | 1/1 | 6.62 | 4.07 |
| 1/1 | 1/1 | 6.63 | 4.1 |
| 1/1 | 1/1 | 7.77 | 5.29 |
| 1/1 | 1/1 | 7.29 | 4.87 |
| 1/1 | 1/1 | 6.71 | 4.29 |
| 1/1 | 0/1 | 4.26 | 1.87 |
| 1/1 | 1/1 | 7.67 | 5.42 |
| 1/1 | 1/1 | 7.93 | 5.69 |
| 1/1 | 1/1 | 10.82 | 8.59 |
| 1/1 | 1/1 | 7.12 | 4.91 |
| 1/1 | 1/1 | 8.45 | 6.27 |
| 1/1 | 1/1 | 8.19 | 6.03 |
| 1/1 | 1/1 | 8.33 | 6.17 |
| 1/1 | 1/1 | 7.24 | 5.15 |
| 0/1 | 1/1 | 5.85 | 5.84 |
| 1/1 | 1/1 | 5.37 | 5.38 |
| 1/1 | 1/1 | 4.02 | 4.1 |
| 0/1 | 1/1 | 3.1 | 3.23 |
| 1/1 | 1/1 | 12.1 | 12.3 |
| 1/1 | 1/1 | 4.49 | 4.72 |
| 1/1 | 1/1 | 4.45 | 4.7 |
| 1/1 | 1/1 | 6.35 | 5.91 |
| 1/1 | 1/1 | 8.4 | 8.1 |
| 1/1 | 1/1 | 7.7 | 7.85 |
| 1/1 | 1/1 | 5.61 | 5.98 |
| 0/1 | 1/1 | 5.69 | 7.76 |
| 1/1 | 1/1 | 5.71 | 7.82 |
| 1/1 | 1/1 | 7.39 | 10.16 |
| 1/1 | 1/1 | 6.09 | 9.28 |
| 0/1 | 1/1 | 4.68 | 8.03 |
| 0/1 | 1/1 | 5.14 | 11.34 |
| 1/1 | 1/1 | 5.38 | 4.84 |
| 1/1 | 1/1 | 7.33 | 7.07 |
| 0/1 | 1/1 | 4.23 | 4.2 |
| 0/1 | 1/1 | 3.35 | 3.33 |
| 1/1 | 1/1 | 4.88 | 4.87 |
| 0/1 | 1/1 | 7.42 | 7.45 |
| 1/1 | 1/1 | 9.04 | 9.08 |
| 0/1 | 1/1 | 6.26 | 6.33 |
| 1/1 | 1/1 | 5.88 | 6.14 |
| 1/1 | 1/1 | 6.71 | 7.01 |
| 0/1 | 1/1 | 6.29 | 6.64 |
| 1/1 | 1/1 | 5.77 | 6.15 |
| 0/1 | 1/1 | 4.31 | 4.73 |
| 1/1 | 1/1 | 7.69 | 8.13 |
| 0/1 | 1/1 | 3.27 | 3.71 |
| 1/1 | 1/1 | 6.3 | 6.75 |
| 0/1 | 1/1 | 3.48 | 4.04 |
| 1/1 | 1/1 | 5.54 | 6.11 |
| 1/1 | 1/1 | 6.66 | 7.35 |
| 0/1 | 1/1 | 2.56 | 3.49 |
| 1/1 | 1/1 | 8.03 | 9.71 |
| 0/1 | 1/1 | 2.7 | 4.7 |
| 1/1 | 1/1 | 7.15 | 9.22 |
| 1/1 | 1/1 | 7.42 | 9.68 |
| 0/1 | 1/1 | 7.15 | 10.46 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.04 | 10.45 |
| 1/1 | 1/1 | 2.83 | 8.25 |
| 1/1 | 1/1 | 4.67 | 10.11 |
| 1/1 | 1/1 | 4.52 | 10.21 |
| 1/1 | 1/1 | 4.78 | 10.53 |
| 0/1 | 1/1 | 2.99 | 9.39 |
| 1/1 | 0/1 | 7.49 | 4.7 |
| 1/1 | 1/1 | 4.12 | 2.89 |
| 1/1 | 1/1 | 5.33 | 5.19 |
| 1/1 | 1/1 | 7.03 | 7.73 |
| 1/1 | 1/1 | 6.92 | 7.71 |
| 1/1 | 1/1 | 5.64 | 4.63 |
| 1/1 | 1/1 | 6.45 | 7.21 |
| 0/1 | 1/1 | 3.01 | 3.82 |
| 0/1 | 1/1 | 4.69 | 6.45 |
| 1/1 | 1/1 | 9.16 | 10.99 |
| 1/1 | 1/1 | 6.01 | 8.51 |
| 1/1 | 1/1 | 4.46 | 7.19 |
| 1/1 | 1/1 | 3.3 | 8.79 |
| 1/1 | 1/1 | 4.66 | 10.18 |
| 1/1 | 0/1 | 10.27 | 2.09 |
| 1/1 | 1/1 | 8.31 | 2.62 |
| 1/1 | 1/1 | 8.24 | 2.79 |
| 1/1 | 1/1 | 11.98 | 6.85 |
| 1/1 | 1/1 | 10.94 | 6.03 |
| 1/1 | 1/1 | 8.42 | 3.56 |
| 1/1 | 1/1 | 11.9 | 7.13 |
| 1/1 | 1/1 | 8.9 | 4.14 |
| 1/1 | 1/1 | 11.02 | 6.33 |
| 1/1 | 1/1 | 9.68 | 5.02 |
| 1/1 | 1/1 | 9.32 | 4.69 |
| 1/1 | 1/1 | 11.92 | 7.37 |
| 1/1 | 1/1 | 10.28 | 7.83 |
| 1/1 | 1/1 | 11.82 | 9.54 |
| 1/1 | 1/1 | 12.59 | 10.46 |
| 1/1 | 1/1 | 12.62 | 10.52 |
| 1/1 | 1/1 | 4.42 | 3.88 |
| 1/1 | 1/1 | 3.93 | 3.43 |
| 1/1 | 0/1 | 2.63 | 2.24 |
| 1/1 | 1/1 | 6.91 | 5.82 |
| 0/1 | 1/1 | 3.04 | 2.81 |
| 1/1 | 1/1 | 5.03 | 4.97 |
| 0/1 | 1/1 | 2.11 | 2.15 |
| 1/1 | 1/1 | 7.13 | 7.22 |
| 0/1 | 1/1 | 5.04 | 5.29 |
| 0/1 | 1/1 | 2.99 | 3.33 |
| 1/1 | 1/1 | 6.48 | 6.89 |
| 1/1 | 1/1 | 4.55 | 5.12 |
| 0/1 | 1/1 | 2.95 | 3.65 |
| 0/1 | 1/1 | 2.71 | 3.52 |
| 1/1 | 1/1 | 9.56 | 10.44 |
| 1/1 | 1/1 | 8.17 | 9.14 |
| 1/1 | 1/1 | 7.98 | 9.77 |
| 1/1 | 1/1 | 6.39 | 8.45 |
| 1/1 | 1/1 | 4.74 | 7 |
| 1/1 | 1/1 | 4.09 | 6.38 |
| 1/1 | 1/1 | 5.64 | 8 |
| 1/1 | 1/1 | 6.35 | 8.71 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 1.88 | 4.32 |
| 0/1 | 1/1 | 3.89 | 8.57 |
| 0/1 | 1/1 | 3.1 | 7.8 |
| 0/1 | 1/1 | 2.48 | 7.34 |
| 0/1 | 1/1 | 2.62 | 8.38 |
| 1/1 | 1/1 | 5.75 | 6.78 |
| 0/1 | 1/1 | 3.58 | 5.8 |
| 0/1 | 1/1 | 2.93 | 5.55 |
| 0/1 | 1/1 | 3.63 | 8.03 |
| 1/1 | 1/1 | 4.19 | 11.06 |
| 0/1 | 1/1 | 3.5 | 10.72 |
| 1/1 | 1/1 | 4.55 | 11.78 |
| 1/1 | 1/1 | 3.54 | 2.55 |
| 1/1 | 1/1 | 7.81 | 7.66 |
| 0/1 | 1/1 | 8.03 | 8.08 |
| 1/1 | 1/1 | 9.11 | 9.27 |
| 0/1 | 1/1 | 2.48 | 2.88 |
| 1/1 | 1/1 | 8.38 | 10.31 |
| 0/1 | 1/1 | 2.66 | 5.07 |
| 1/1 | 1/1 | 3.83 | 6.27 |
| 1/1 | 1/1 | 3.4 | 8.21 |
| 1/1 | 1/1 | 10.06 | 4.95 |
| 1/1 | 1/1 | 9.7 | 4.68 |
| 1/1 | 1/1 | 8.63 | 3.67 |
| 1/1 | 1/1 | 10 | 5.06 |
| 1/1 | 1/1 | 9.49 | 4.58 |
| 1/1 | 1/1 | 9.83 | 4.96 |
| 1/1 | 1/1 | 9.65 | 4.8 |
| 1/1 | 0/1 | 6.61 | 1.81 |
| 1/1 | 1/1 | 10.51 | 5.76 |
| 1/1 | 1/1 | 8.93 | 4.2 |
| 1/1 | 1/1 | 10.96 | 6.36 |
| 1/1 | 1/1 | 10.17 | 5.59 |
| 1/1 | 1/1 | 10.76 | 6.25 |
| 1/1 | 1/1 | 11.12 | 6.69 |
| 1/1 | 1/1 | 9.73 | 5.39 |
| 1/1 | 1/1 | 10.8 | 6.51 |
| 1/1 | 1/1 | 8.06 | 3.78 |
| 1/1 | 1/1 | 9.97 | 5.75 |
| 1/1 | 1/1 | 12.41 | 8.31 |
| 1/1 | 1/1 | 11.62 | 7.56 |
| 1/1 | 1/1 | 8 | 4.07 |
| 1/1 | 1/1 | 12.05 | 8.29 |
| 1/1 | 1/1 | 6.52 | 3.44 |
| 1/1 | 1/1 | 10.13 | 7.42 |
| 1/1 | 1/1 | 10.52 | 7.81 |
| 1/1 | 1/1 | 11.09 | 8.83 |
| 1/1 | 1/1 | 8.29 | 6.26 |
| 1/1 | 0/1 | 5.17 | 3.16 |
| 1/1 | 1/1 | 12.62 | 10.81 |
| 1/1 | 0/1 | 6 | 4.24 |
| 1/1 | 1/1 | 12.73 | 10.98 |
| 1/1 | 1/1 | 12.98 | 11.23 |
| 1/1 | 1/1 | 12.12 | 10.49 |
| 1/1 | 1/1 | 9.59 | 6.36 |
| 1/1 | 0/1 | 5.46 | 4.37 |
| 1/1 | 0/1 | 6.78 | 6.3 |
| 1/1 | 1/1 | 3.97 | 3.79 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.05 | 6.87 |
| 0/1 | 1/1 | 4.62 | 4.73 |
| 1/1 | 1/1 | 10.12 | 10.28 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 5.22 | 3.66 |
| 1/1 | 1/1 | 4.01 | 2.85 |
| 1/1 | 1/1 | 5.27 | 4.12 |
| 1/1 | 1/1 | 8.38 | 7.25 |
| 1/1 | 1/1 | 7.49 | 6.39 |
| 1/1 | 0/1 | 3.45 | 2.57 |
| 1/1 | 1/1 | 6.31 | 5.57 |
| 1/1 | 1/1 | 5.92 | 5.41 |
| 1/1 | 0/1 | 3.17 | 2.68 |
| 1/1 | 1/1 | 6.19 | 5.73 |
| 0/1 | 1/1 | 4.03 | 3.63 |
| 1/1 | 1/1 | 7.79 | 7.44 |
| 1/1 | 1/1 | 4.85 | 4.51 |
| 1/1 | 1/1 | 6.12 | 5.8 |
| 1/1 | 1/1 | 6.09 | 5.83 |
| 1/1 | 0/1 | 3.12 | 2.86 |
| 1/1 | 1/1 | 2.47 | 2.28 |
| 1/1 | 1/1 | 8.76 | 8.67 |
| 0/1 | 1/1 | 2.89 | 2.95 |
| 0/1 | 1/1 | 2.47 | 2.86 |
| 0/1 | 1/1 | 7.04 | 7.67 |
| 1/1 | 1/1 | 4.02 | 4.85 |
| 0/1 | 1/1 | 2.14 | 3.09 |
| 1/1 | 1/1 | 5.47 | 9.43 |
| 1/1 | 1/1 | 5.31 | 9.37 |
| 0/1 | 1/1 | 2.91 | 7.04 |
| 1/1 | 1/1 | 4.7 | 8.85 |
| 0/1 | 1/1 | 3.64 | 7.87 |
| 1/1 | 1/1 | 3.19 | 7.52 |
| 1/1 | 1/1 | 3.34 | 7.68 |
| 1/1 | 1/1 | 3.84 | 8.39 |
| 1/1 | 1/1 | 9.38 | 5.29 |
| 1/1 | 1/1 | 4.41 | 3.71 |
| 1/1 | 1/1 | 9.59 | 6.36 |
| 1/1 | 0/1 | 5.46 | 4.37 |
| 1/1 | 0/1 | 6.78 | 6.3 |
| 1/1 | 1/1 | 3.97 | 3.79 |
| 1/1 | 1/1 | 7.05 | 6.87 |
| 1/1 | 1/1 | 6.18 | 6.14 |
| 0/1 | 1/1 | 4.62 | 4.73 |
| 1/1 | 1/1 | 5.85 | 5.99 |
| 1/1 | 1/1 | 10.12 | 10.28 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 0/1 | 7.01 | 2.91 |
| 1/1 | 1/1 | 9.77 | 6.55 |
| 1/1 | 1/1 | 5.8 | 3.42 |
| 1/1 | 1/1 | 6.93 | 5.18 |
| 1/1 | 1/1 | 5.97 | 4.32 |
| 1/1 | 0/1 | 6.02 | 4.54 |
| 1/1 | 1/1 | 5.95 | 5.06 |
| 1/1 | 1/1 | 4.88 | 4.06 |
| 1/1 | 1/1 | 8 | 7.2 |
| 1/1 | 1/1 | 7.5 | 6.72 |
| 1/1 | 1/1 | 7.11 | 6.37 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 9.06 | 2.17 |
| 1/1 | 0/1 | 9.29 | 3.21 |
| 1/1 | 0/1 | 7.4 | 2.29 |
| 1/1 | 0/1 | 7.66 | 2.63 |
| 1/1 | 1/1 | 8.1 | 3.1 |
| 1/1 | 0/1 | 6.52 | 1.96 |
| 1/1 | 0/1 | 7.23 | 2.74 |
| 1/1 | 1/1 | 7.86 | 3.52 |
| 1/1 | 0/1 | 7.71 | 3.38 |
| 1/1 | 1/1 | 7.92 | 4.03 |
| 1/1 | 0/1 | 5.7 | 2.05 |
| 1/1 | 0/1 | 3.17 | 1.66 |
| 1/1 | 1/1 | 8.13 | 6.64 |
| 1/1 | 1/1 | 7.85 | 6.45 |
| 1/1 | 0/1 | 5.89 | 4.51 |
| 1/1 | 0/1 | 3.93 | 2.59 |
| 1/1 | 0/1 | 4.49 | 3.15 |
| 1/1 | 0/1 | 3.47 | 2.16 |
| 1/1 | 1/1 | 6.41 | 5.1 |
| 1/1 | 1/1 | 6.13 | 4.84 |
| 1/1 | 0/1 | 3.46 | 2.21 |
| 1/1 | 0/1 | 4.19 | 2.98 |
| 1/1 | 1/1 | 5.17 | 3.96 |
| 1/1 | 0/1 | 3.41 | 2.2 |
| 1/1 | 0/1 | 4.19 | 2.99 |
| 1/1 | 0/1 | 4.17 | 2.99 |
| 1/1 | 1/1 | 5.22 | 4.13 |
| 1/1 | 1/1 | 5.8 | 4.77 |
| 1/1 | 1/1 | 5.49 | 4.5 |
| 1/1 | 1/1 | 4.1 | 3.13 |
| 1/1 | 1/1 | 7.29 | 6.35 |
| 1/1 | 0/1 | 3.98 | 3.04 |
| 1/1 | 1/1 | 5.53 | 4.6 |
| 1/1 | 1/1 | 6.81 | 5.9 |
| 1/1 | 0/1 | 3.13 | 2.28 |
| 1/1 | 1/1 | 7.53 | 6.78 |
| 1/1 | 1/1 | 6.13 | 5.38 |
| 1/1 | 1/1 | 5.92 | 5.18 |
| 1/1 | 1/1 | 4.9 | 4.18 |
| 1/1 | 0/1 | 3.43 | 2.72 |
| 1/1 | 0/1 | 2.64 | 1.97 |
| 1/1 | 1/1 | 3.72 | 3.1 |
| 1/1 | 0/1 | 2.72 | 2.1 |
| 1/1 | 1/1 | 3.96 | 3.36 |
| 1/1 | 1/1 | 6.68 | 6.09 |
| 1/1 | 1/1 | 6.85 | 6.29 |
| 1/1 | 1/1 | 3.56 | 3.01 |
| 1/1 | 1/1 | 5.86 | 5.32 |
| 1/1 | 1/1 | 8.28 | 7.74 |
| 1/1 | 1/1 | 5.38 | 4.87 |
| 1/1 | 1/1 | 5.21 | 4.71 |
| 1/1 | 0/1 | 3.78 | 3.35 |
| 1/1 | 1/1 | 4.65 | 4.26 |
| 1/1 | 1/1 | 4.83 | 4.46 |
| 1/1 | 0/1 | 2.91 | 2.6 |
| 0/1 | 1/1 | 3.41 | 3.23 |
| 1/1 | 1/1 | 7.38 | 7.24 |
| 1/1 | 1/1 | 7.1 | 6.97 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.66 | 3.58 |
| 1/1 | 1/1 | 7.73 | 7.69 |
| 1/1 | 1/1 | 4.89 | 4.86 |
| 1/1 | 1/1 | 8.83 | 8.96 |
| 1/1 | 1/1 | 5.26 | 5.38 |
| 1/1 | 1/1 | 10.35 | 10.5 |
| 1/1 | 1/1 | 7.65 | 7.8 |
| 1/1 | 1/1 | 8.72 | 8.89 |
| 1/1 | 1/1 | 4.2 | 4.37 |
| 1/1 | 1/1 | 9.3 | 9.49 |
| 1/1 | 1/1 | 6.34 | 6.62 |
| 1/1 | 1/1 | 7.11 | 7.41 |
| 0/1 | 1/1 | 4.47 | 4.83 |
| 0/1 | 1/1 | 2.86 | 3.22 |
| 1/1 | 1/1 | 9.82 | 10.27 |
| 0/1 | 1/1 | 2.84 | 3.4 |
| 1/1 | 1/1 | 5.01 | 5.6 |
| 0/1 | 1/1 | 2.45 | 3.09 |
| 0/1 | 1/1 | 2.44 | 3.1 |
| 0/1 | 1/1 | 2.66 | 3.35 |
| 0/1 | 1/1 | 2.08 | 2.83 |
| 0/1 | 1/1 | 2.38 | 3.29 |
| 1/1 | 1/1 | 6.77 | 7.81 |
| 0/1 | 1/1 | 1.88 | 3.17 |
| 1/1 | 1/1 | 2.92 | 2.73 |
| 1/1 | 1/1 | 7.95 | 7.83 |
| 0/1 | 1/1 | 2.66 | 2.81 |
| 1/1 | 1/1 | 6.4 | 6.82 |
| 0/1 | 1/1 | 3.13 | 4.03 |
| 1/1 | 1/1 | 6.09 | 7.3 |
| 0/1 | 1/1 | 2.17 | 3.43 |
| 1/1 | 1/1 | 7.06 | 8.65 |
| 0/1 | 1/1 | 4.22 | 7.11 |
| 1/1 | 1/1 | 6.13 | 9.27 |
| 1/1 | 1/1 | 4.38 | 10.21 |
| 0/1 | 1/1 | 2.3 | 8.56 |
| 0/1 | 1/1 | 5.02 | 5.1 |
| 0/1 | 1/1 | 3.44 | 3.88 |
| 0/1 | 1/1 | 2.47 | 3.05 |
| 1/1 | 1/1 | 5.81 | 6.43 |
| 0/1 | 1/1 | 3.13 | 3.86 |
| 1/1 | 1/1 | 6.21 | 7.4 |
| 1/1 | 1/1 | 6.02 | 7.98 |
| 0/1 | 1/1 | 3.61 | 5.58 |
| 0/1 | 1/1 | 2.16 | 4.37 |
| 0/1 | 1/1 | 2.71 | 4.94 |
| 0/1 | 1/1 | 2.77 | 5.2 |
| 1/1 | 1/1 | 5.42 | 7.89 |
| 1/1 | 1/1 | 5.17 | 10.67 |
| 0/1 | 1/1 | 4.71 | 10.47 |
| 1/1 | 0/1 | 5.22 | 3.46 |
| 1/1 | 1/1 | 5.02 | 4.42 |
| 1/1 | 1/1 | 11.13 | 10.7 |
| 1/1 | 1/1 | 4.98 | 4.55 |
| 1/1 | 1/1 | 7.66 | 7.48 |
| 1/1 | 1/1 | 11.5 | 11.41 |
| 1/1 | 1/1 | 10.7 | 10.74 |
| 1/1 | 1/1 | 6.23 | 6.3 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.73 | 3.84 |
| 0/1 | 1/1 | 5.53 | 5.68 |
| 1/1 | 1/1 | 9.09 | 9.34 |
| 0/1 | 1/1 | 3.78 | 4.3 |
| 0/1 | 1/1 | 5.19 | 5.79 |
| 0/1 | 1/1 | 3.6 | 4.59 |
| 0/1 | 1/1 | 4.65 | 5.74 |
| 0/1 | 1/1 | 2.94 | 4.22 |
| 1/1 | 1/1 | 5.22 | 6.76 |
| 0/1 | 1/1 | 3.26 | 4.8 |
| 0/1 | 1/1 | 4.31 | 7.89 |
| 0/1 | 1/1 | 2.24 | 6.65 |
| 1/1 | 1/1 | 3.02 | 7.61 |
| 1/1 | 1/1 | 5.36 | 4.17 |
| 1/1 | 1/1 | 6.63 | 6 |
| 1/1 | 1/1 | 6.81 | 6.23 |
| 1/1 | 1/1 | 6.38 | 5.88 |
| 1/1 | 1/1 | 3.67 | 3.22 |
| 0/1 | 1/1 | 3.97 | 3.78 |
| 1/1 | 1/1 | 2.64 | 3.12 |
| 0/1 | 1/1 | 5.94 | 6.62 |
| 0/1 | 1/1 | 5.28 | 6.19 |
| 0/1 | 1/1 | 3.54 | 4.5 |
| 0/1 | 1/1 | 3.94 | 5.17 |
| 1/1 | 1/1 | 5.01 | 6.32 |
| 0/1 | 1/1 | 2.93 | 4.3 |
| 0/1 | 1/1 | 3.3 | 4.68 |
| 1/1 | 1/1 | 7.99 | 9.66 |
| 0/1 | 1/1 | 2.47 | 4.24 |
| 1/1 | 1/1 | 3.95 | 6 |
| 1/1 | 1/1 | 3.46 | 7.77 |
| 1/1 | 1/1 | 5.13 | 3.16 |
| 1/1 | 1/1 | 7.3 | 6.27 |
| 1/1 | 1/1 | 6.2 | 5.77 |
| 1/1 | 1/1 | 9.67 | 9.55 |
| 1/1 | 1/1 | 8.5 | 8.56 |
| 1/1 | 1/1 | 11.27 | 11.36 |
| 0/1 | 1/1 | 4.63 | 4.73 |
| 0/1 | 1/1 | 3.41 | 3.68 |
| 0/1 | 1/1 | 5.06 | 5.65 |
| 0/1 | 1/1 | 3.71 | 4.35 |
| 0/1 | 1/1 | 3.52 | 4.36 |
| 1/1 | 1/1 | 5.68 | 6.67 |
| 1/1 | 1/1 | 5.91 | 9.26 |
| 0/1 | 1/1 | 4.08 | 7.47 |
| 1/1 | 1/1 | 4.27 | 8.72 |
| 1/1 | 1/1 | 9.52 | 6.94 |
| 1/1 | 1/1 | 8.35 | 6.76 |
| 1/1 | 0/1 | 4.68 | 4.29 |
| 1/1 | 1/1 | 5.48 | 5.32 |
| 1/1 | 1/1 | 3.06 | 2.96 |
| 1/1 | 1/1 | 6.02 | 6.24 |
| 0/1 | 1/1 | 2.78 | 3.1 |
| 0/1 | 1/1 | 2.59 | 2.92 |
| 0/1 | 1/1 | 2.18 | 2.64 |
| 1/1 | 1/1 | 5 | 5.64 |
| 1/1 | 1/1 | 3.64 | 6.45 |
| 1/1 | 1/1 | 3.42 | 6.35 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 8.71 | 4.44 |
| 0/1 | 1/1 | 2.58 | 4.45 |
| 1/1 | 1/1 | 11.2 | 10.38 |
| 1/1 | 1/1 | 11.38 | 10.82 |
| 1/1 | 1/1 | 6.81 | 6.41 |
| 0/1 | 1/1 | 4.21 | 3.91 |
| 1/1 | 1/1 | 11.53 | 11.54 |
| 1/1 | 1/1 | 9.23 | 9.41 |
| 0/1 | 1/1 | 2.73 | 3.26 |
| 0/1 | 1/1 | 6.77 | 7.32 |
| 0/1 | 1/1 | 5.63 | 6.26 |
| 1/1 | 1/1 | 4.61 | 5.62 |
| 0/1 | 1/1 | 8.15 | 10.06 |
| 0/1 | 1/1 | 4.63 | 6.9 |
| 0/1 | 1/1 | 3.48 | 5.89 |
| 0/1 | 1/1 | 4.38 | 8.96 |
| 1/1 | 1/1 | 5.96 | 10.69 |
| 0/1 | 1/1 | 4.68 | 10.15 |
| 1/1 | 1/1 | 7.61 | 6.78 |
| 1/1 | 1/1 | 7.92 | 7.51 |
| 1/1 | 1/1 | 7.8 | 7.64 |
| 1/1 | 1/1 | 9.25 | 9.5 |
| 1/1 | 1/1 | 7.73 | 8.1 |
| 1/1 | 1/1 | 8.32 | 8.75 |
| 0/1 | 1/1 | 4.78 | 5.33 |
| 0/1 | 1/1 | 8.56 | 9.12 |
| 0/1 | 1/1 | 2.36 | 3.13 |
| 0/1 | 1/1 | 5.73 | 7.04 |
| 1/1 | 1/1 | 5.59 | 6.91 |
| 0/1 | 1/1 | 4.38 | 6.25 |
| 1/1 | 1/1 | 9.54 | 11.76 |
| 1/1 | 1/1 | 7.06 | 11.49 |
| 0/1 | 1/1 | 1.88 | 6.43 |
| 1/1 | 1/1 | 6.8 | 11.39 |
| 1/1 | 1/1 | 4.65 | 9.32 |
| 0/1 | 1/1 | 2.5 | 8 |
| 0/1 | 1/1 | 4.28 | 10.02 |
| 1/1 | 1/1 | 2.85 | 2.76 |
| 1/1 | 1/1 | 5.99 | 6.08 |
| 1/1 | 1/1 | 4.36 | 4.54 |
| 1/1 | 1/1 | 6.17 | 6.41 |
| 0/1 | 1/1 | 3.97 | 4.44 |
| 1/1 | 1/1 | 3.9 | 4.53 |
| 1/1 | 1/1 | 7.36 | 8.08 |
| 0/1 | 1/1 | 3.67 | 4.99 |
| 1/1 | 1/1 | 4.04 | 5.64 |
| 0/1 | 1/1 | 4.73 | 6.58 |
| 0/1 | 1/1 | 1.99 | 4.59 |
| 1/1 | 1/1 | 6.52 | 9.35 |
| 1/1 | 0/1 | 5.82 | 3.33 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 7.24 | 6.97 |
| 1/1 | 1/1 | 6.92 | 6.68 |
| 1/1 | 1/1 | 9.4 | 9.19 |
| 1/1 | 1/1 | 8.58 | 8.43 |
| 1/1 | 1/1 | 7.61 | 7.47 |
| 1/1 | 1/1 | 5.95 | 5.94 |
| 0/1 | 1/1 | 8.61 | 8.64 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.94 | 7.05 |
| 1/1 | 1/1 | 6.28 | 6.66 |
| 1/1 | 1/1 | 4.79 | 5.22 |
| 1/1 | 1/1 | 4.26 | 4.71 |
| 1/1 | 1/1 | 5.79 | 6.27 |
| 1/1 | 1/1 | 8.37 | 8.87 |
| 1/1 | 1/1 | 5 | 5.53 |
| 0/1 | 1/1 | 4.27 | 4.84 |
| 0/1 | 1/1 | 3.49 | 4.06 |
| 1/1 | 1/1 | 5.91 | 6.5 |
| 1/1 | 1/1 | 5.68 | 6.3 |
| 1/1 | 1/1 | 4.75 | 5.43 |
| 1/1 | 1/1 | 2.86 | 3.55 |
| 1/1 | 1/1 | 3.27 | 6.11 |
| 1/1 | 1/1 | 5.83 | 8.73 |
| 1/1 | 1/1 | 5.07 | 8.18 |
| 0/1 | 1/1 | 3.31 | 6.87 |
| 0/1 | 1/1 | 2.49 | 6.16 |
| 1/1 | 1/1 | 9.32 | 6.13 |
| 1/1 | 0/1 | 4.32 | 3.38 |
| 1/1 | 1/1 | 4.58 | 4.11 |
| 1/1 | 1/1 | 7.05 | 6.87 |
| 1/1 | 1/1 | 8.65 | 10.66 |
| 1/1 | 1/1 | 10.06 | 12.42 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 9.3 | 4.64 |
| 0/1 | 1/1 | 5.3 | 5.78 |
| 1/1 | 1/1 | 3.53 | 4.04 |
| 1/1 | 1/1 | 5.95 | 6.62 |
| 0/1 | 1/1 | 1.96 | 2.74 |
| 0/1 | 1/1 | 2.72 | 4.17 |
| 1/1 | 1/1 | 10.54 | 7.93 |
| 1/1 | 1/1 | 6.61 | 6.13 |
| 1/1 | 1/1 | 6.84 | 6.44 |
| 1/1 | 1/1 | 9.18 | 8.89 |
| 0/1 | 1/1 | 7.4 | 7.39 |
| 0/1 | 1/1 | 7.04 | 7.08 |
| 1/1 | 1/1 | 8.35 | 8.51 |
| 1/1 | 1/1 | 9.26 | 9.49 |
| 1/1 | 1/1 | 6.53 | 6.88 |
| 1/1 | 1/1 | 6.99 | 7.36 |
| 1/1 | 1/1 | 6.84 | 7.29 |
| 1/1 | 1/1 | 5.09 | 8.09 |
| 1/1 | 1/1 | 6.21 | 9.26 |
| 1/1 | 1/1 | 6.16 | 9.29 |
| 1/1 | 1/1 | 3.81 | 3.52 |
| 1/1 | 1/1 | 4.56 | 6.23 |
| 1/1 | 1/1 | 7.14 | 9.3 |
| 0/1 | 1/1 | 1.96 | 4.63 |
| 0/1 | 1/1 | 3.31 | 8.79 |
| 0/1 | 1/1 | 2.9 | 8.7 |
| 1/1 | 0/1 | 5.56 | 2.48 |
| 1/1 | 1/1 | 7.69 | 6.25 |
| 1/1 | 0/1 | 5.05 | 3.92 |
| 1/1 | 0/1 | 3.5 | 2.72 |
| 1/1 | 1/1 | 6.73 | 6.03 |
| 1/1 | 1/1 | 2.92 | 2.63 |
| 1/1 | 1/1 | 8.46 | 8.21 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.03 | 4.8 |
| 1/1 | 1/1 | 8.07 | 7.86 |
| 1/1 | 1/1 | 7.49 | 7.28 |
| 1/1 | 1/1 | 4.29 | 4.11 |
| 1/1 | 1/1 | 4.73 | 4.56 |
| 1/1 | 1/1 | 8.02 | 7.86 |
| 0/1 | 1/1 | 5.94 | 5.81 |
| 1/1 | 1/1 | 7.86 | 7.79 |
| 1/1 | 1/1 | 6.68 | 6.61 |
| 1/1 | 1/1 | 6.07 | 6.03 |
| 0/1 | 1/1 | 2.14 | 4.21 |
| 0/1 | 1/1 | 2.52 | 4.84 |
| 0/1 | 1/1 | 2.59 | 5.69 |
| 1/1 | 1/1 | 10.71 | 9.81 |
| 1/1 | 0/1 | 8.08 | 7.26 |
| 1/1 | 1/1 | 7.76 | 7.09 |
| 1/1 | 1/1 | 7.87 | 7.39 |
| 1/1 | 1/1 | 7.37 | 6.9 |
| 1/1 | 1/1 | 9.22 | 8.78 |
| 1/1 | 1/1 | 9.57 | 9.43 |
| 1/1 | 1/1 | 5.38 | 5.26 |
| 1/1 | 1/1 | 7.29 | 7.24 |
| 0/1 | 1/1 | 5.28 | 5.32 |
| 0/1 | 1/1 | 6.92 | 7.02 |
| 0/1 | 1/1 | 7.05 | 7.2 |
| 1/1 | 1/1 | 7.71 | 7.88 |
| 1/1 | 1/1 | 8.88 | 9.12 |
| 1/1 | 1/1 | 4.96 | 5.33 |
| 1/1 | 1/1 | 8.28 | 8.7 |
| 1/1 | 1/1 | 5.48 | 5.91 |
| 1/1 | 1/1 | 5.39 | 5.89 |
| 1/1 | 1/1 | 6.45 | 7 |
| 1/1 | 1/1 | 6.64 | 7.25 |
| 1/1 | 1/1 | 4.58 | 5.2 |
| 0/1 | 1/1 | 8.61 | 9.3 |
| 0/1 | 1/1 | 6.38 | 7.08 |
| 1/1 | 1/1 | 6.37 | 7.13 |
| 1/1 | 1/1 | 10.16 | 10.98 |
| 0/1 | 1/1 | 8.71 | 9.58 |
| 0/1 | 1/1 | 4.85 | 5.9 |
| 1/1 | 1/1 | 7.5 | 8.59 |
| 1/1 | 1/1 | 4.18 | 5.47 |
| 1/1 | 1/1 | 7.99 | 9.38 |
| 1/1 | 1/1 | 9.34 | 10.85 |
| 0/1 | 1/1 | 3.35 | 4.89 |
| 0/1 | 1/1 | 4.57 | 6.2 |
| 0/1 | 1/1 | 7.06 | 8.98 |
| 1/1 | 1/1 | 7.59 | 9.53 |
| 0/1 | 1/1 | 2.89 | 4.85 |
| 0/1 | 1/1 | 5.26 | 7.39 |
| 1/1 | 1/1 | 6.04 | 10.3 |
| 0/1 | 1/1 | 4.9 | 9.26 |
| 1/1 | 1/1 | 5.8 | 10.33 |
| 0/1 | 1/1 | 3.28 | 7.85 |
| 0/1 | 1/1 | 4.68 | 9.27 |
| 1/1 | 1/1 | 5.54 | 10.28 |
| 1/1 | 1/1 | 5.34 | 10.08 |
| 0/1 | 1/1 | 4.25 | 9.03 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 4.35 | 9.39 |
| 0/1 | 1/1 | 3.7 | 8.86 |
| 1/1 | 1/1 | 4.34 | 10.41 |
| 0/1 | 1/1 | 2.59 | 8.81 |
| 1/1 | 1/1 | 9.08 | 8.6 |
| 0/1 | 1/1 | 6.37 | 7.01 |
| 0/1 | 1/1 | 5.98 | 6.88 |
| 0/1 | 1/1 | 3.85 | 5.04 |
| 1/1 | 1/1 | 8.17 | 9.48 |
| 1/1 | 1/1 | 7.65 | 9.13 |
| 1/1 | 1/1 | 6.58 | 8.35 |
| 1/1 | 1/1 | 6.26 | 8.07 |
| 1/1 | 1/1 | 5.43 | 7.77 |
| 1/1 | 1/1 | 6.69 | 9.25 |
| 0/1 | 1/1 | 3.95 | 8.51 |
| 1/1 | 1/1 | 6.46 | 11.07 |
| 1/1 | 1/1 | 5.74 | 10.39 |
| 1/1 | 1/1 | 6.36 | 11.05 |
| 1/1 | 1/1 | 5.28 | 10.1 |
| 1/1 | 1/1 | 3.48 | 8.38 |
| 0/1 | 1/1 | 3.24 | 8.16 |
| 1/1 | 1/1 | 5.05 | 10.01 |
| 1/1 | 1/1 | 4.35 | 9.36 |
| 1/1 | 1/1 | 4.62 | 9.69 |
| 1/1 | 1/1 | 4.12 | 9.21 |
| 1/1 | 1/1 | 4.2 | 9.35 |
| 0/1 | 1/1 | 5.29 | 10.45 |
| 1/1 | 1/1 | 4.02 | 9.4 |
| 1/1 | 1/1 | 3.49 | 8.88 |
| 1/1 | 1/1 | 5.09 | 10.56 |
| 0/1 | 1/1 | 3.71 | 9.22 |
| 0/1 | 1/1 | 3.21 | 8.89 |
| 1/1 | 0/1 | 6.76 | 3.51 |
| 1/1 | 1/1 | 5.49 | 5.01 |
| 1/1 | 1/1 | 6.44 | 6 |
| 1/1 | 1/1 | 6.76 | 6.39 |
| 0/1 | 1/1 | 2.58 | 4.59 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.21 | 6.19 |
| 1/1 | 1/1 | 7.69 | 7.72 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 3.41 | 3.58 |
| 0/1 | 1/1 | 2.93 | 3.23 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.4 | 5.37 |
| 1/1 | 1/1 | 3.67 | 4.9 |
| 1/1 | 1/1 | 4.43 | 5.66 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 0/1 | 1/1 | 3.49 | 5.19 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 7.12 | 9.13 |
| 1/1 | 1/1 | 5.48 | 7.63 |
| 1/1 | 1/1 | 7.15 | 9.35 |
| 1/1 | 1/1 | 6.25 | 8.49 |
| 1/1 | 1/1 | 5.39 | 7.71 |
| 1/1 | 1/1 | 5 | 7.4 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 6.23 | 8.75 |
| 1/1 | 1/1 | 7.41 | 10.13 |
| 0/1 | 1/1 | 4.75 | 9.77 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.21 | 6.19 |
| 1/1 | 1/1 | 7.69 | 7.72 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 3.34 | 3.59 |
| 0/1 | 1/1 | 2.93 | 3.23 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.4 | 5.37 |
| 1/1 | 1/1 | 3.67 | 4.9 |
| 1/1 | 1/1 | 4.43 | 5.66 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 0/1 | 1/1 | 3.49 | 5.19 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 7.12 | 9.13 |
| 1/1 | 1/1 | 5.48 | 7.63 |
| 1/1 | 1/1 | 7.15 | 9.35 |
| 1/1 | 1/1 | 6.25 | 8.49 |
| 1/1 | 1/1 | 5.39 | 7.71 |
| 1/1 | 1/1 | 5 | 7.4 |
| 1/1 | 1/1 | 6.23 | 8.75 |
| 1/1 | 1/1 | 7.41 | 10.13 |
| 0/1 | 1/1 | 4.75 | 9.77 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.21 | 6.19 |
| 1/1 | 1/1 | 7.69 | 7.72 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 3.34 | 3.59 |
| 0/1 | 1/1 | 2.93 | 3.23 |
| 0/1 | 1/1 | 2.31 | 3.03 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.4 | 5.37 |
| 1/1 | 1/1 | 3.67 | 4.9 |
| 1/1 | 1/1 | 4.43 | 5.66 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 0/1 | 1/1 | 3.49 | 5.19 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 7.12 | 9.13 |
| 1/1 | 1/1 | 5.48 | 7.63 |
| 1/1 | 1/1 | 7.15 | 9.35 |
| 1/1 | 1/1 | 6.25 | 8.49 |
| 1/1 | 1/1 | 5.39 | 7.71 |
| 1/1 | 1/1 | 5 | 7.4 |
| 1/1 | 1/1 | 6.23 | 8.75 |
| 1/1 | 1/1 | 7.41 | 10.13 |
| 0/1 | 1/1 | 4.75 | 9.77 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.21 | 6.19 |
| 1/1 | 1/1 | 7.69 | 7.72 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 3.34 | 3.59 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.93 | 3.23 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.4 | 5.37 |
| 1/1 | 1/1 | 3.67 | 4.9 |
| 1/1 | 1/1 | 4.43 | 5.66 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 0/1 | 1/1 | 3.49 | 5.19 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 7.12 | 9.13 |
| 1/1 | 1/1 | 5.48 | 7.63 |
| 1/1 | 1/1 | 7.15 | 9.35 |
| 1/1 | 1/1 | 6.25 | 8.49 |
| 1/1 | 1/1 | 5.39 | 7.71 |
| 1/1 | 1/1 | 5 | 7.4 |
| 1/1 | 1/1 | 6.23 | 8.75 |
| 1/1 | 1/1 | 7.41 | 10.13 |
| 0/1 | 1/1 | 4.75 | 9.77 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.21 | 6.19 |
| 1/1 | 1/1 | 7.69 | 7.72 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 3.34 | 3.59 |
| 0/1 | 1/1 | 2.93 | 3.23 |
| 0/1 | 1/1 | 2.31 | 3.03 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.4 | 5.37 |
| 1/1 | 1/1 | 3.67 | 4.9 |
| 1/1 | 1/1 | 4.43 | 5.66 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 0/1 | 1/1 | 3.49 | 5.19 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 7.12 | 9.13 |
| 1/1 | 1/1 | 5.48 | 7.63 |
| 1/1 | 1/1 | 7.15 | 9.35 |
| 1/1 | 1/1 | 6.25 | 8.49 |
| 1/1 | 1/1 | 5.39 | 7.71 |
| 1/1 | 1/1 | 5 | 7.4 |
| 1/1 | 1/1 | 6.23 | 8.75 |
| 1/1 | 1/1 | 7.41 | 10.13 |
| 0/1 | 1/1 | 4.75 | 9.77 |
| 1/1 | 0/1 | 4.67 | 1.57 |
| 1/1 | 1/1 | 8.22 | 7.97 |
| 1/1 | 1/1 | 7.65 | 6.99 |
| 1/1 | 1/1 | 8.31 | 8.16 |
| 1/1 | 1/1 | 5.03 | 4.92 |
| 1/1 | 1/1 | 4.76 | 4.82 |
| 1/1 | 1/1 | 8.11 | 9.24 |
| 0/1 | 1/1 | 5.15 | 6.34 |
| 1/1 | 1/1 | 6.76 | 8.19 |
| 1/1 | 1/1 | 6.11 | 7.55 |
| 1/1 | 1/1 | 10.03 | 11.72 |
| 0/1 | 1/1 | 2.93 | 5.03 |
| 1/1 | 1/1 | 4.73 | 9.7 |
| 0/1 | 1/1 | 3.4 | 8.58 |
| 1/1 | 1/1 | 5.57 | 3.56 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.05 | 3.11 |
| 1/1 | 1/1 | 8.5 | 8.7 |
| 1/1 | 1/1 | 10.73 | 10.93 |
| 0/1 | 1/1 | 7.83 | 8.16 |
| 1/1 | 1/1 | 8.86 | 9.2 |
| 1/1 | 1/1 | 7.09 | 7.66 |
| 1/1 | 1/1 | 6.7 | 7.33 |
| 0/1 | 1/1 | 3.24 | 3.89 |
| 1/1 | 1/1 | 6.12 | 9.11 |
| 1/1 | 1/1 | 4.35 | 3.66 |
| 1/1 | 1/1 | 6.74 | 6.17 |
| 0/1 | 1/1 | 2 | 2.35 |
| 0/1 | 1/1 | 3.1 | 4.98 |
| 0/1 | 1/1 | 2.31 | 6.69 |
| 1/1 | 1/1 | 4.06 | 8.49 |
| 1/1 | 0/1 | 6.25 | 4.93 |
| 1/1 | 1/1 | 9.72 | 9.23 |
| 1/1 | 1/1 | 6.2 | 5.72 |
| 1/1 | 1/1 | 2.87 | 2.46 |
| 1/1 | 1/1 | 8.29 | 7.95 |
| 0/1 | 1/1 | 2.84 | 2.83 |
| 1/1 | 1/1 | 6.51 | 6.56 |
| 1/1 | 1/1 | 6.44 | 6.55 |
| 1/1 | 1/1 | 7.7 | 7.83 |
| 1/1 | 1/1 | 3.75 | 3.88 |
| 1/1 | 1/1 | 5.96 | 6.12 |
| 0/1 | 1/1 | 3.42 | 3.62 |
| 1/1 | 1/1 | 10.36 | 10.59 |
| 0/1 | 1/1 | 3.86 | 4.24 |
| 0/1 | 1/1 | 2.48 | 2.93 |
| 0/1 | 1/1 | 3.93 | 4.47 |
| 1/1 | 1/1 | 5.21 | 5.87 |
| 0/1 | 1/1 | 4 | 4.67 |
| 1/1 | 1/1 | 7.03 | 7.83 |
| 0/1 | 1/1 | 4.17 | 5.04 |
| 1/1 | 1/1 | 4.11 | 4.99 |
| 1/1 | 1/1 | 5.08 | 6.09 |
| 1/1 | 1/1 | 6.68 | 7.76 |
| 0/1 | 1/1 | 3.04 | 4.2 |
| 0/1 | 1/1 | 2.27 | 3.47 |
| 1/1 | 1/1 | 6.17 | 7.62 |
| 0/1 | 1/1 | 4.46 | 5.91 |
| 1/1 | 1/1 | 5.75 | 7.23 |
| 1/1 | 1/1 | 6.24 | 7.81 |
| 1/1 | 1/1 | 4.82 | 8.44 |
| 1/1 | 1/1 | 4.47 | 8.13 |
| 1/1 | 1/1 | 3.77 | 7.71 |
| 1/1 | 1/1 | 8.26 | 7.24 |
| 1/1 | 1/1 | 7.15 | 7.12 |
| 1/1 | 1/1 | 6.26 | 6.49 |
| 1/1 | 1/1 | 8.47 | 8.7 |
| 0/1 | 1/1 | 4.32 | 4.84 |
| 0/1 | 1/1 | 3.52 | 4.11 |
| 1/1 | 1/1 | 5.41 | 6.56 |
| 1/1 | 1/1 | 7.34 | 8.75 |
| 1/1 | 1/1 | 5.99 | 7.41 |
| 1/1 | 1/1 | 5.04 | 6.47 |
| 1/1 | 1/1 | 7.06 | 8.66 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.65 | 7.61 |
| 1/1 | 1/1 | 4.3 | 8.52 |
| 0/1 | 1/1 | 2.76 | 7.1 |
| 1/1 | 1/1 | 4.53 | 8.88 |
| 0/1 | 1/1 | 2.63 | 7.35 |
| 1/1 | 1/1 | 6.22 | 3.41 |
| 1/1 | 1/1 | 6.22 | 3.41 |
| 1/1 | 1/1 | 6.93 | 6.34 |
| 1/1 | 1/1 | 6.88 | 6.42 |
| 1/1 | 1/1 | 8.31 | 8.19 |
| 1/1 | 1/1 | 6.71 | 6.68 |
| 1/1 | 1/1 | 9.05 | 3.43 |
| 1/1 | 1/1 | 9.55 | 5.95 |
| 1/1 | 0/1 | 5.3 | 2.03 |
| 1/1 | 0/1 | 5.14 | 1.91 |
| 1/1 | 1/1 | 7.53 | 4.5 |
| 1/1 | 0/1 | 7.08 | 4.08 |
| 1/1 | 1/1 | 7.49 | 4.54 |
| 1/1 | 1/1 | 7.33 | 4.4 |
| 1/1 | 1/1 | 6.05 | 3.22 |
| 1/1 | 0/1 | 5.88 | 3.09 |
| 1/1 | 1/1 | 6.52 | 3.75 |
| 1/1 | 0/1 | 2.97 | 2.28 |
| 1/1 | 1/1 | 4.87 | 4.24 |
| 1/1 | 1/1 | 8.57 | 7.98 |
| 1/1 | 1/1 | 4.86 | 4.29 |
| 1/1 | 1/1 | 4.69 | 4.14 |
| 1/1 | 1/1 | 3.21 | 2.68 |
| 1/1 | 1/1 | 4.39 | 3.87 |
| 1/1 | 1/1 | 6.07 | 5.61 |
| 1/1 | 0/1 | 3.55 | 3.1 |
| 1/1 | 1/1 | 4.11 | 3.7 |
| 1/1 | 1/1 | 3.14 | 2.82 |
| 1/1 | 1/1 | 9.06 | 8.76 |
| 1/1 | 1/1 | 3.25 | 3.01 |
| 1/1 | 1/1 | 4.82 | 4.57 |
| 1/1 | 1/1 | 4.84 | 4.66 |
| 1/1 | 1/1 | 6.18 | 6.08 |
| 0/1 | 1/1 | 2.63 | 2.55 |
| 0/1 | 1/1 | 9.47 | 9.39 |
| 1/1 | 1/1 | 7.22 | 7.14 |
| 0/1 | 1/1 | 7.39 | 7.39 |
| 1/1 | 1/1 | 3.78 | 3.91 |
| 0/1 | 1/1 | 2.34 | 2.56 |
| 1/1 | 1/1 | 5.29 | 5.6 |
| 0/1 | 1/1 | 2.67 | 3 |
| 1/1 | 1/1 | 5.27 | 5.88 |
| 0/1 | 1/1 | 2.23 | 3 |
| 0/1 | 1/1 | 2.62 | 3.61 |
| 0/1 | 1/1 | 5.28 | 6.42 |
| 0/1 | 1/1 | 3.76 | 5.12 |
| 1/1 | 0/1 | 7.23 | 3.19 |
| 1/1 | 0/1 | 6.15 | 3.84 |
| 1/1 | 0/1 | 4.31 | 2.44 |
| 1/1 | 0/1 | 4.02 | 2.63 |
| 1/1 | 1/1 | 10.54 | 9.36 |
| 1/1 | 1/1 | 8.09 | 9.95 |
| 1/1 | 0/1 | 5.99 | 2.01 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 6 | 2.23 |
| 1/1 | 1/1 | 6.96 | 3.42 |
| 1/1 | 0/1 | 7.17 | 3.74 |
| 1/1 | 1/1 | 5.67 | 4.86 |
| 1/1 | 1/1 | 4.63 | 3.95 |
| 1/1 | 1/1 | 5.76 | 5.11 |
| 0/1 | 1/1 | 2.2 | 3.84 |
| 1/1 | 0/1 | 5.82 | 3.33 |
| 1/1 | 1/1 | 6.73 | 6.69 |
| 1/1 | 1/1 | 5.99 | 6.26 |
| 1/1 | 1/1 | 3.86 | 6.66 |
| 1/1 | 1/1 | 5.83 | 8.73 |
| 0/1 | 1/1 | 3.31 | 6.87 |
| 0/1 | 1/1 | 2.49 | 6.16 |
| 1/1 | 1/1 | 8.15 | 5.98 |
| 1/1 | 0/1 | 3.46 | 2.55 |
| 1/1 | 1/1 | 3.5 | 2.98 |
| 1/1 | 1/1 | 8.77 | 8.54 |
| 1/1 | 1/1 | 8.63 | 8.42 |
| 0/1 | 1/1 | 3.47 | 3.3 |
| 1/1 | 1/1 | 8.17 | 8.04 |
| 1/1 | 1/1 | 9.25 | 9.16 |
| 1/1 | 1/1 | 4.65 | 4.66 |
| 0/1 | 1/1 | 6.43 | 6.45 |
| 1/1 | 1/1 | 5.91 | 5.96 |
| 1/1 | 1/1 | 5.94 | 6.08 |
| 0/1 | 1/1 | 3.81 | 4.05 |
| 0/1 | 1/1 | 3.52 | 3.78 |
| 1/1 | 1/1 | 6.18 | 6.44 |
| 1/1 | 1/1 | 7.69 | 8.05 |
| 0/1 | 1/1 | 6.07 | 6.54 |
| 1/1 | 1/1 | 5.1 | 5.63 |
| 0/1 | 1/1 | 6.35 | 6.9 |
| 0/1 | 1/1 | 5.61 | 6.23 |
| 1/1 | 1/1 | 6.79 | 7.41 |
| 1/1 | 1/1 | 5.81 | 6.46 |
| 1/1 | 1/1 | 5.29 | 5.98 |
| 1/1 | 1/1 | 5.22 | 7.92 |
| 0/1 | 1/1 | 4.4 | 7.23 |
| 0/1 | 1/1 | 2.72 | 5.58 |
| 1/1 | 1/1 | 4.73 | 7.66 |
| 1/1 | 1/1 | 5.2 | 8.42 |
| 0/1 | 1/1 | 5.09 | 8.33 |
| 1/1 | 1/1 | 5.58 | 8.96 |
| 0/1 | 1/1 | 2.71 | 6.16 |
| 0/1 | 1/1 | 2.8 | 6.34 |
| 1/1 | 1/1 | 5.01 | 8.57 |
| 1/1 | 1/1 | 5.56 | 9.18 |
| 0/1 | 1/1 | 2.59 | 6.42 |
| 1/1 | 1/1 | 4.32 | 8.28 |
| 1/1 | 1/1 | 3.35 | 7.35 |
| 0/1 | 1/1 | 2.82 | 6.88 |
| 1/1 | 1/1 | 4.22 | 8.32 |
| 1/1 | 1/1 | 4.03 | 8.29 |
| 1/1 | 1/1 | 3.99 | 8.64 |
| 1/1 | 1/1 | 4.38 | 9.15 |
| 0/1 | 1/1 | 2.19 | 7.12 |
| 0/1 | 1/1 | 2.95 | 7.99 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 6.96 | 4.17 |
| 0/1 | 1/1 | 3.87 | 3 |
| 1/1 | 1/1 | 5.49 | 4.67 |
| 1/1 | 0/1 | 2.78 | 2.23 |
| 1/1 | 1/1 | 4 | 3.49 |
| 1/1 | 1/1 | 3.3 | 2.83 |
| 1/1 | 1/1 | 5.52 | 5.16 |
| 1/1 | 0/1 | 2.52 | 2.25 |
| 1/1 | 1/1 | 4.68 | 4.43 |
| 1/1 | 1/1 | 4.88 | 4.71 |
| 0/1 | 1/1 | 5.29 | 5.18 |
| 1/1 | 1/1 | 4.28 | 4.18 |
| 1/1 | 1/1 | 4.1 | 4.01 |
| 0/1 | 1/1 | 2.61 | 2.52 |
| 1/1 | 1/1 | 7.52 | 7.43 |
| 0/1 | 1/1 | 3.86 | 3.78 |
| 1/1 | 1/1 | 5.47 | 5.44 |
| 1/1 | 1/1 | 2.67 | 2.71 |
| 1/1 | 1/1 | 3.57 | 5.64 |
| 1/1 | 1/1 | 6.63 | 5.41 |
| 1/1 | 1/1 | 5.24 | 4.65 |
| 1/1 | 1/1 | 7.23 | 7.1 |
| 1/1 | 1/1 | 2.36 | 2.39 |
| 0/1 | 1/1 | 3.61 | 3.85 |
| 0/1 | 1/1 | 2.34 | 2.67 |
| 1/1 | 1/1 | 7.08 | 7.89 |
| 0/1 | 1/1 | 2.98 | 3.86 |
| 1/1 | 1/1 | 5.73 | 7.07 |
| 1/1 | 1/1 | 6.84 | 8.32 |
| 1/1 | 1/1 | 6.4 | 7.91 |
| 0/1 | 1/1 | 2.01 | 3.56 |
| 1/1 | 1/1 | 3.15 | 6.81 |
| 0/1 | 1/1 | 2.18 | 6.07 |
| 0/1 | 1/1 | 2.55 | 6.51 |
| 1/1 | 0/1 | 6.51 | 5.67 |
| 1/1 | 1/1 | 2.74 | 2.51 |
| 0/1 | 1/1 | 2.69 | 2.59 |
| 1/1 | 1/1 | 13.22 | 13.13 |
| 1/1 | 1/1 | 8.17 | 9.08 |
| 0/1 | 1/1 | 6.05 | 7.49 |
| 0/1 | 1/1 | 2.35 | 3.99 |
| 1/1 | 1/1 | 6.44 | 8.16 |
| 1/1 | 1/1 | 6.48 | 8.43 |
| 1/1 | 1/1 | 4.28 | 6.26 |
| 1/1 | 1/1 | 4.54 | 8.57 |
| 1/1 | 1/1 | 8.74 | 7.32 |
| 1/1 | 1/1 | 7.39 | 6.72 |
| 1/1 | 1/1 | 6.33 | 5.87 |
| 1/1 | 1/1 | 7.06 | 6.8 |
| 0/1 | 1/1 | 5.4 | 5.17 |
| 1/1 | 1/1 | 6.76 | 6.55 |
| 1/1 | 1/1 | 8.77 | 8.67 |
| 1/1 | 1/1 | 5.61 | 5.77 |
| 0/1 | 1/1 | 4.54 | 4.8 |
| 1/1 | 1/1 | 3.19 | 3.48 |
| 1/1 | 1/1 | 3.26 | 3.72 |
| 0/1 | 1/1 | 3.27 | 3.75 |
| 1/1 | 1/1 | 6.1 | 6.59 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.04 | 4 |
| 0/1 | 1/1 | 3.08 | 6.62 |
| 1/1 | 1/1 | 8.07 | 4.71 |
| 1/1 | 1/1 | 8.1 | 7.34 |
| 1/1 | 1/1 | 3.42 | 2.85 |
| 1/1 | 1/1 | 4.24 | 6.5 |
| 1/1 | 1/1 | 8.03 | 7.46 |
| 1/1 | 1/1 | 5.89 | 6.03 |
| 1/1 | 1/1 | 9.56 | 9.71 |
| 1/1 | 1/1 | 11.74 | 11.9 |
| 0/1 | 1/1 | 7.62 | 7.92 |
| 0/1 | 1/1 | 4.75 | 5.14 |
| 0/1 | 1/1 | 4.43 | 4.94 |
| 1/1 | 1/1 | 5.73 | 4.93 |
| 1/1 | 1/1 | 6.05 | 5.71 |
| 1/1 | 1/1 | 5.3 | 5.33 |
| 1/1 | 1/1 | 2.7 | 2.95 |
| 1/1 | 1/1 | 6.42 | 6.81 |
| 1/1 | 1/1 | 6.86 | 7.49 |
| 0/1 | 1/1 | 2.81 | 3.87 |
| 1/1 | 1/1 | 4.7 | 6.38 |
| 1/1 | 1/1 | 5.65 | 7.6 |
| 1/1 | 1/1 | 4.77 | 8.82 |
| 1/1 | 1/1 | 6.75 | 6.41 |
| 1/1 | 1/1 | 6.47 | 6.88 |
| 1/1 | 1/1 | 3.19 | 3.68 |
| 0/1 | 1/1 | 5.41 | 6.08 |
| 0/1 | 1/1 | 4.53 | 5.63 |
| 1/1 | 1/1 | 7.89 | 9 |
| 0/1 | 1/1 | 5.03 | 6.27 |
| 1/1 | 1/1 | 4.79 | 6.3 |
| 1/1 | 1/1 | 5.09 | 9.89 |
| 1/1 | 1/1 | 5.45 | 10.35 |
| 1/1 | 1/1 | 5.57 | 4.64 |
| 1/1 | 1/1 | 5 | 4.3 |
| 1/1 | 1/1 | 7.85 | 7.16 |
| 1/1 | 1/1 | 4.98 | 4.45 |
| 1/1 | 1/1 | 5.58 | 5.18 |
| 1/1 | 1/1 | 4.19 | 3.89 |
| 1/1 | 1/1 | 7.5 | 7.21 |
| 1/1 | 1/1 | 6.29 | 6.02 |
| 1/1 | 1/1 | 7.84 | 7.61 |
| 1/1 | 1/1 | 4.06 | 3.84 |
| 1/1 | 1/1 | 6.1 | 5.89 |
| 1/1 | 1/1 | 9.3 | 9.1 |
| 1/1 | 1/1 | 7.54 | 7.33 |
| 0/1 | 1/1 | 3.08 | 2.91 |
| 1/1 | 1/1 | 9.42 | 9.29 |
| 1/1 | 1/1 | 7.27 | 7.13 |
| 1/1 | 1/1 | 5.65 | 5.56 |
| 1/1 | 1/1 | 5.21 | 5.16 |
| 1/1 | 1/1 | 5.6 | 5.57 |
| 1/1 | 1/1 | 6.92 | 6.98 |
| 1/1 | 1/1 | 5.15 | 5.21 |
| 1/1 | 1/1 | 9.91 | 10.03 |
| 1/1 | 1/1 | 10.25 | 10.41 |
| 1/1 | 1/1 | 6.07 | 6.29 |
| 1/1 | 1/1 | 5.83 | 6.15 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.49 | 2.95 |
| 1/1 | 1/1 | 5.12 | 5.61 |
| 0/1 | 1/1 | 4 | 4.49 |
| 1/1 | 1/1 | 5.83 | 6.43 |
| 1/1 | 1/1 | 7.09 | 7.71 |
| 0/1 | 1/1 | 3.73 | 4.52 |
| 0/1 | 1/1 | 2.88 | 3.74 |
| 0/1 | 1/1 | 5.15 | 6.17 |
| 0/1 | 1/1 | 1.99 | 3.06 |
| 0/1 | 1/1 | 4.37 | 5.45 |
| 0/1 | 1/1 | 3.62 | 4.73 |
| 0/1 | 1/1 | 2.39 | 3.51 |
| 0/1 | 1/1 | 4.69 | 6.02 |
| 1/1 | 1/1 | 4.26 | 5.69 |
| 1/1 | 1/1 | 5.05 | 6.57 |
| 1/1 | 1/1 | 4.06 | 8.56 |
| 1/1 | 1/1 | 11.89 | 10.68 |
| 0/1 | 1/1 | 6.65 | 6.86 |
| 0/1 | 1/1 | 3.75 | 3.97 |
| 1/1 | 1/1 | 3.88 | 4.13 |
| 1/1 | 1/1 | 4.99 | 5.3 |
| 1/1 | 1/1 | 4.69 | 5.03 |
| 0/1 | 1/1 | 3.26 | 3.74 |
| 0/1 | 1/1 | 4.18 | 4.78 |
| 1/1 | 1/1 | 3.12 | 3.74 |
| 0/1 | 1/1 | 4.11 | 5.31 |
| 1/1 | 1/1 | 8.01 | 9.38 |
| 1/1 | 0/1 | 4.72 | 2.98 |
| 1/1 | 0/1 | 5.98 | 4.32 |
| 1/1 | 1/1 | 4.49 | 2.93 |
| 1/1 | 1/1 | 5.32 | 3.83 |
| 1/1 | 1/1 | 5.54 | 4.09 |
| 1/1 | 1/1 | 5.66 | 5.36 |
| 1/1 | 1/1 | 9.56 | 9.58 |
| 1/1 | 1/1 | 3.51 | 3.56 |
| 1/1 | 1/1 | 12.05 | 12.11 |
| 0/1 | 1/1 | 2.79 | 2.87 |
| 1/1 | 1/1 | 4.61 | 4.72 |
| 1/1 | 1/1 | 9.04 | 9.27 |
| 1/1 | 1/1 | 10.23 | 10.56 |
| 1/1 | 1/1 | 3.7 | 4.13 |
| 1/1 | 1/1 | 4.67 | 5.39 |
| 0/1 | 1/1 | 2.4 | 3.4 |
| 0/1 | 1/1 | 2.87 | 6 |
| 1/1 | 1/1 | 5.72 | 2.38 |
| 1/1 | 1/1 | 6.27 | 5.51 |
| 0/1 | 1/1 | 2.64 | 5.39 |
| 1/1 | 1/1 | 6.58 | 6.58 |
| 0/1 | 1/1 | 2.75 | 3.54 |
| 0/1 | 1/1 | 1.75 | 3.62 |
| 0/1 | 1/1 | 3.02 | 7.86 |
| 0/1 | 1/1 | 2.79 | 8.18 |
| 1/1 | 0/1 | 7.82 | 2.08 |
| 1/1 | 1/1 | 7.98 | 3.82 |
| 1/1 | 1/1 | 8.41 | 4.9 |
| 1/1 | 1/1 | 7.39 | 3.89 |
| 1/1 | 1/1 | 7.31 | 6.6 |
| 1/1 | 0/1 | 4.47 | 3.26 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.16 | 3.42 |
| 1/1 | 1/1 | 10.97 | 11.35 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 1/1 | 7.99 | 9.22 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.72 | 9.17 |
| 1/1 | 1/1 | 7.5 | 11.07 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.4 | 6.31 |
| 1/1 | 1/1 | 6.11 | 6.05 |
| 1/1 | 1/1 | 4.9 | 4.91 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 3.41 | 3.58 |
| 0/1 | 1/1 | 2.93 | 3.23 |
| 0/1 | 1/1 | 5.02 | 5.61 |
| 1/1 | 1/1 | 5.13 | 5.83 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.47 | 5.43 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 0/1 | 1/1 | 4.99 | 6.6 |
| 0/1 | 1/1 | 3.49 | 5.19 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 6.91 | 8.91 |
| 1/1 | 1/1 | 7.15 | 9.35 |
| 1/1 | 1/1 | 5.84 | 8.08 |
| 1/1 | 1/1 | 6.25 | 8.49 |
| 1/1 | 1/1 | 5.39 | 7.71 |
| 1/1 | 1/1 | 5 | 7.4 |
| 0/1 | 1/1 | 2.44 | 6.85 |
| 0/1 | 1/1 | 3.07 | 7.49 |
| 1/1 | 1/1 | 5.17 | 9.62 |
| 1/1 | 1/1 | 5.87 | 10.42 |
| 0/1 | 1/1 | 4.75 | 9.77 |
| 1/1 | 0/1 | 6.85 | 4.29 |
| 1/1 | 1/1 | 8.28 | 8.15 |
| 1/1 | 1/1 | 7.85 | 7.74 |
| 1/1 | 1/1 | 4.73 | 4.67 |
| 1/1 | 1/1 | 5.76 | 5.76 |
| 1/1 | 1/1 | 8.59 | 8.65 |
| 1/1 | 1/1 | 5.92 | 5.99 |
| 1/1 | 1/1 | 6.8 | 6.87 |
| 0/1 | 1/1 | 2.57 | 4.82 |
| 1/1 | 0/1 | 7.85 | 2.11 |
| 1/1 | 0/1 | 8.62 | 3.56 |
| 1/1 | 0/1 | 8.36 | 4.06 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 7.62 | 3.52 |
| 1/1 | 1/1 | 7.68 | 4.57 |
| 1/1 | 1/1 | 7.53 | 6.66 |
| 1/1 | 1/1 | 8.63 | 7.93 |
| 1/1 | 1/1 | 10.43 | 9.96 |
| 1/1 | 1/1 | 9.29 | 8.84 |
| 1/1 | 1/1 | 8.16 | 7.8 |
| 0/1 | 1/1 | 3.75 | 4.1 |
| 1/1 | 1/1 | 3.78 | 4.36 |
| 1/1 | 0/1 | 4.74 | 2.4 |
| 1/1 | 0/1 | 4.79 | 2.97 |
| 1/1 | 1/1 | 7.42 | 6.32 |
| 1/1 | 1/1 | 6.19 | 5.31 |
| 1/1 | 0/1 | 3.24 | 2.45 |
| 1/1 | 1/1 | 10.64 | 9.89 |
| 1/1 | 1/1 | 3.41 | 2.78 |
| 1/1 | 1/1 | 6.4 | 5.79 |
| 1/1 | 1/1 | 5.39 | 4.82 |
| 1/1 | 1/1 | 5.97 | 5.5 |
| 0/1 | 1/1 | 7.07 | 6.63 |
| 1/1 | 1/1 | 4.48 | 4.14 |
| 1/1 | 1/1 | 6.23 | 5.95 |
| 0/1 | 1/1 | 4.64 | 4.39 |
| 1/1 | 1/1 | 3.68 | 3.45 |
| 1/1 | 1/1 | 3.97 | 3.74 |
| 1/1 | 1/1 | 2.73 | 2.53 |
| 1/1 | 1/1 | 10.89 | 10.73 |
| 0/1 | 1/1 | 3.35 | 3.2 |
| 1/1 | 1/1 | 5.78 | 5.65 |
| 1/1 | 1/1 | 5.53 | 5.41 |
| 1/1 | 1/1 | 4.84 | 4.72 |
| 1/1 | 1/1 | 7.8 | 7.7 |
| 1/1 | 1/1 | 2.94 | 2.9 |
| 0/1 | 1/1 | 2.48 | 2.44 |
| 1/1 | 1/1 | 12.23 | 12.2 |
| 0/1 | 1/1 | 4.58 | 4.63 |
| 0/1 | 1/1 | 2.75 | 2.84 |
| 0/1 | 1/1 | 2.11 | 2.2 |
| 1/1 | 1/1 | 3.34 | 3.45 |
| 0/1 | 1/1 | 2.34 | 2.49 |
| 1/1 | 1/1 | 5.61 | 5.76 |
| 0/1 | 1/1 | 3.49 | 3.66 |
| 0/1 | 1/1 | 1.86 | 2.11 |
| 0/1 | 1/1 | 3.19 | 3.45 |
| 1/1 | 1/1 | 8.68 | 8.97 |
| 1/1 | 0/1 | 7.89 | 2.98 |
| 1/1 | 0/1 | 7.34 | 4.52 |
| 1/1 | 1/1 | 4.55 | 4.3 |
| 1/1 | 1/1 | 5.46 | 5.88 |
| 1/1 | 1/1 | 10.59 | 12.52 |
| 0/1 | 1/1 | 5.03 | 7.03 |
| 1/1 | 1/1 | 5.76 | 7.86 |
| 0/1 | 1/1 | 3.64 | 8.36 |
| 1/1 | 1/1 | 6.46 | 11.24 |
| 1/1 | 1/1 | 6.46 | 11.29 |
| 0/1 | 1/1 | 3 | 7.98 |
| 0/1 | 1/1 | 5.45 | 10.81 |
| 1/1 | 1/1 | 8.24 | 8 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.17 | 4.23 |
| 1/1 | 1/1 | 4.16 | 4.31 |
| 1/1 | 1/1 | 4.19 | 4.37 |
| 1/1 | 1/1 | 6.97 | 7.43 |
| 1/1 | 1/1 | 7.53 | 8.73 |
| 0/1 | 1/1 | 2.17 | 3.83 |
| 0/1 | 1/1 | 3.08 | 8 |
| 1/1 | 1/1 | 4.46 | 3.86 |
| 1/1 | 1/1 | 10.17 | 10.13 |
| 1/1 | 1/1 | 6.58 | 6.65 |
| 1/1 | 1/1 | 3.81 | 3.91 |
| 1/1 | 1/1 | 4.19 | 4.34 |
| 1/1 | 1/1 | 2.67 | 2.85 |
| 1/1 | 1/1 | 10.91 | 11.12 |
| 0/1 | 1/1 | 6.3 | 6.57 |
| 0/1 | 1/1 | 4.96 | 5.35 |
| 0/1 | 1/1 | 4.91 | 5.31 |
| 0/1 | 1/1 | 2.1 | 2.51 |
| 1/1 | 1/1 | 4.97 | 5.4 |
| 0/1 | 1/1 | 4.06 | 4.59 |
| 1/1 | 1/1 | 6.5 | 7.05 |
| 1/1 | 1/1 | 4.83 | 5.44 |
| 1/1 | 1/1 | 6.02 | 6.67 |
| 1/1 | 1/1 | 5.27 | 5.93 |
| 1/1 | 1/1 | 5.25 | 5.91 |
| 1/1 | 1/1 | 7.82 | 8.54 |
| 1/1 | 1/1 | 6.54 | 7.38 |
| 1/1 | 1/1 | 5.46 | 6.35 |
| 1/1 | 1/1 | 6.02 | 6.96 |
| 1/1 | 1/1 | 5 | 5.96 |
| 1/1 | 1/1 | 5.89 | 6.87 |
| 1/1 | 1/1 | 5.13 | 6.23 |
| 1/1 | 1/1 | 6.49 | 7.59 |
| 1/1 | 1/1 | 4.53 | 5.63 |
| 1/1 | 1/1 | 3.73 | 4.84 |
| 1/1 | 1/1 | 3.02 | 4.14 |
| 1/1 | 1/1 | 7.27 | 8.41 |
| 0/1 | 1/1 | 2.93 | 4.1 |
| 1/1 | 1/1 | 6.19 | 7.39 |
| 0/1 | 1/1 | 3.3 | 4.58 |
| 1/1 | 1/1 | 6.37 | 7.66 |
| 1/1 | 1/1 | 4.52 | 5.89 |
| 1/1 | 1/1 | 6.27 | 7.75 |
| 0/1 | 1/1 | 3.57 | 5.11 |
| 1/1 | 1/1 | 6.16 | 7.72 |
| 1/1 | 1/1 | 8.27 | 9.89 |
| 1/1 | 1/1 | 7.78 | 9.7 |
| 1/1 | 1/1 | 4.76 | 8.81 |
| 1/1 | 0/1 | 6.43 | 3.2 |
| 1/1 | 1/1 | 5.74 | 3.48 |
| 1/1 | 1/1 | 3.29 | 4.72 |
| 1/1 | 0/1 | 8.06 | 2.89 |
| 1/1 | 0/1 | 7.88 | 4.3 |
| 1/1 | 1/1 | 8.71 | 5.24 |
| 1/1 | 0/1 | 5.96 | 2.78 |
| 1/1 | 0/1 | 5.64 | 2.57 |
| 1/1 | 1/1 | 6.36 | 5.93 |
| 1/1 | 1/1 | 6.08 | 5.93 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 8.29 | 2.51 |
| 1/1 | 1/1 | 9.1 | 4.26 |
| 1/1 | 1/1 | 8.4 | 3.65 |
| 1/1 | 1/1 | 8.15 | 4.23 |
| 1/1 | 1/1 | 8.64 | 4.95 |
| 1/1 | 1/1 | 8.44 | 4.83 |
| 1/1 | 0/1 | 4.88 | 3.83 |
| 1/1 | 1/1 | 5.65 | 4.8 |
| 1/1 | 1/1 | 3.72 | 3.1 |
| 1/1 | 1/1 | 4.73 | 4.74 |
| 0/1 | 1/1 | 3.1 | 4.68 |
| 1/1 | 1/1 | 9.87 | 5.92 |
| 1/1 | 0/1 | 5.57 | 2.6 |
| 1/1 | 1/1 | 6.45 | 4.01 |
| 1/1 | 1/1 | 4.59 | 2.67 |
| 1/1 | 1/1 | 9.02 | 7.1 |
| 1/1 | 1/1 | 4.72 | 3.25 |
| 0/1 | 1/1 | 2.57 | 3.6 |
| 1/1 | 0/1 | 7.7 | 3.32 |
| 1/1 | 1/1 | 7.73 | 4.49 |
| 1/1 | 1/1 | 11.15 | 8.25 |
| 1/1 | 0/1 | 7.5 | 4.76 |
| 1/1 | 0/1 | 6.91 | 4.41 |
| 1/1 | 0/1 | 7.1 | 4.64 |
| 1/1 | 0/1 | 5.36 | 2.97 |
| 1/1 | 1/1 | 7.88 | 5.78 |
| 1/1 | 0/1 | 4.63 | 2.73 |
| 1/1 | 1/1 | 7.72 | 7.98 |
| 1/1 | 1/1 | 7.32 | 4.25 |
| 1/1 | 0/1 | 4.17 | 3.36 |
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 1/1 | 1/1 | 6.53 | 6.75 |
| 1/1 | 1/1 | 6.15 | 6.57 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.15 | 3.38 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.97 | 9.27 |
| 1/1 | 1/1 | 7.5 | 11.07 |
| 1/1 | 0/1 | 4.1 | 2.76 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.34 | 8.59 |
| 1/1 | 1/1 | 10.94 | 10.36 |
| 1/1 | 1/1 | 7.48 | 7.2 |
| 1/1 | 1/1 | 6.13 | 5.95 |
| 0/1 | 1/1 | 5.97 | 5.84 |
| 1/1 | 1/1 | 9.32 | 9.2 |
| 1/1 | 1/1 | 6.51 | 6.56 |
| 1/1 | 1/1 | 5.27 | 5.35 |
| 0/1 | 1/1 | 5.9 | 5.99 |
| 1/1 | 1/1 | 7.97 | 8.17 |
| 1/1 | 1/1 | 6.68 | 6.94 |
| 1/1 | 1/1 | 6.12 | 6.39 |
| 1/1 | 1/1 | 6.9 | 7.18 |
| 1/1 | 1/1 | 9.07 | 9.42 |
| 1/1 | 1/1 | 5.53 | 5.89 |
| 1/1 | 1/1 | 5.56 | 5.94 |
| 0/1 | 1/1 | 3.84 | 4.53 |
| 1/1 | 1/1 | 6.57 | 7.3 |
| 0/1 | 1/1 | 5.69 | 6.52 |
| 0/1 | 1/1 | 4.41 | 5.35 |
| 1/1 | 1/1 | 4.77 | 5.93 |
| 1/1 | 0/1 | 8.17 | 2.56 |
| 1/1 | 0/1 | 8.04 | 2.49 |
| 1/1 | 1/1 | 8.99 | 3.65 |
| 1/1 | 0/1 | 8.09 | 2.77 |
| 1/1 | 0/1 | 6.76 | 1.91 |
| 1/1 | 1/1 | 9.01 | 4.38 |
| 1/1 | 1/1 | 8.3 | 3.82 |
| 1/1 | 1/1 | 7.16 | 3.26 |
| 1/1 | 1/1 | 8.11 | 4.26 |
| 1/1 | 0/1 | 6.6 | 2.87 |
| 1/1 | 0/1 | 5.62 | 2.51 |
| 1/1 | 0/1 | 5.73 | 2.64 |
| 1/1 | 1/1 | 7.39 | 4.31 |
| 1/1 | 1/1 | 5.97 | 4.95 |
| 1/1 | 1/1 | 5.17 | 4.19 |
| 1/1 | 1/1 | 5.11 | 4.27 |
| 1/1 | 1/1 | 6.32 | 5.48 |
| 1/1 | 1/1 | 4.39 | 3.6 |
| 1/1 | 1/1 | 6.39 | 5.69 |
| 1/1 | 1/1 | 6.6 | 5.98 |
| 1/1 | 1/1 | 5.92 | 5.41 |
| 1/1 | 1/1 | 7.17 | 6.68 |
| 1/1 | 1/1 | 5.34 | 4.86 |
| 1/1 | 1/1 | 7.26 | 6.85 |
| 1/1 | 1/1 | 7.17 | 6.87 |
| 1/1 | 1/1 | 5.59 | 5.3 |
| 1/1 | 1/1 | 4.55 | 4.28 |
| 1/1 | 1/1 | 7.59 | 7.36 |
| 1/1 | 1/1 | 7.63 | 7.4 |
| 1/1 | 1/1 | 6.31 | 6.12 |
| 1/1 | 1/1 | 3.82 | 3.7 |
| 0/1 | 1/1 | 2.45 | 2.37 |
| 1/1 | 1/1 | 10.02 | 9.95 |
| 1/1 | 1/1 | 8.38 | 8.36 |
| 1/1 | 1/1 | 6.7 | 6.8 |
| 0/1 | 1/1 | 5.8 | 5.93 |
| 1/1 | 1/1 | 6.72 | 6.91 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.37 | 7.63 |
| 1/1 | 1/1 | 9.15 | 9.71 |
| 1/1 | 1/1 | 5.45 | 6.16 |
| 1/1 | 1/1 | 8.98 | 9.84 |
| 0/1 | 1/1 | 4.54 | 5.42 |
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.16 | 3.42 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 1/1 | 7.99 | 9.22 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.5 | 11.07 |
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.16 | 3.42 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 1/1 | 7.99 | 9.22 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.5 | 11.07 |
| 1/1 | 1/1 | 6.42 | 3.43 |
| 1/1 | 1/1 | 7.62 | 4.87 |
| 1/1 | 0/1 | 5.37 | 3.01 |
| 1/1 | 1/1 | 7.85 | 5.55 |
| 1/1 | 1/1 | 8.17 | 6.05 |
| 1/1 | 1/1 | 7.44 | 5.36 |
| 1/1 | 1/1 | 6.47 | 4.47 |
| 1/1 | 1/1 | 7.85 | 5.96 |
| 1/1 | 1/1 | 8.3 | 6.45 |
| 1/1 | 1/1 | 5.62 | 3.79 |
| 1/1 | 1/1 | 6.79 | 4.97 |
| 1/1 | 1/1 | 8.05 | 6.26 |
| 1/1 | 1/1 | 7.07 | 5.31 |
| 1/1 | 1/1 | 7.67 | 5.93 |
| 1/1 | 1/1 | 7.08 | 5.37 |
| 1/1 | 1/1 | 5.98 | 4.27 |
| 1/1 | 1/1 | 7.87 | 6.2 |
| 1/1 | 1/1 | 5.02 | 3.43 |
| 1/1 | 1/1 | 6.72 | 5.2 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.47 | 6 |
| 1/1 | 1/1 | 7.71 | 6.3 |
| 1/1 | 0/1 | 5.05 | 3.65 |
| 1/1 | 1/1 | 7.87 | 6.48 |
| 1/1 | 1/1 | 8.53 | 7.17 |
| 1/1 | 1/1 | 7.31 | 5.97 |
| 1/1 | 1/1 | 7.33 | 6.01 |
| 1/1 | 1/1 | 7.17 | 5.86 |
| 1/1 | 1/1 | 6 | 4.72 |
| 1/1 | 1/1 | 6.2 | 4.97 |
| 1/1 | 1/1 | 10.01 | 8.79 |
| 1/1 | 1/1 | 7.39 | 6.2 |
| 1/1 | 1/1 | 7.42 | 6.34 |
| 1/1 | 1/1 | 4.16 | 3.09 |
| 1/1 | 1/1 | 7.26 | 6.22 |
| 1/1 | 1/1 | 6.99 | 6.01 |
| 1/1 | 1/1 | 7.44 | 6.51 |
| 1/1 | 1/1 | 6.82 | 5.9 |
| 1/1 | 1/1 | 6.1 | 5.24 |
| 1/1 | 1/1 | 6.03 | 5.28 |
| 1/1 | 1/1 | 4.93 | 4.21 |
| 1/1 | 1/1 | 4.13 | 5.72 |
| 1/1 | 1/1 | 4.25 | 5.92 |
| 1/1 | 1/1 | 4.97 | 7.03 |
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.15 | 3.38 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 1/1 | 7.3 | 8.35 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.5 | 11.07 |
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.15 | 3.38 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 1/1 | 7.84 | 8.8 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.5 | 11.07 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.47 | 3.26 |
| 0/1 | 1/1 | 3.22 | 3.05 |
| 1/1 | 1/1 | 11.18 | 11.04 |
| 1/1 | 1/1 | 7.58 | 7.52 |
| 1/1 | 1/1 | 8.75 | 8.69 |
| 1/1 | 1/1 | 9.06 | 9.08 |
| 1/1 | 1/1 | 7.23 | 7.38 |
| 0/1 | 1/1 | 3.15 | 3.38 |
| 0/1 | 1/1 | 6.41 | 7 |
| 0/1 | 1/1 | 4.26 | 4.95 |
| 1/1 | 1/1 | 5.06 | 5.78 |
| 1/1 | 1/1 | 4.49 | 5.24 |
| 1/1 | 1/1 | 3.56 | 4.33 |
| 1/1 | 1/1 | 7.49 | 8.38 |
| 1/1 | 1/1 | 7.84 | 8.8 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 1/1 | 1/1 | 7.5 | 11.07 |
| 1/1 | 1/1 | 10.5 | 7.9 |
| 1/1 | 1/1 | 6.74 | 6.35 |
| 1/1 | 1/1 | 5.89 | 4.98 |
| 1/1 | 0/1 | 4.82 | 3.96 |
| 1/1 | 1/1 | 5.65 | 5.73 |
| 0/1 | 1/1 | 4.01 | 4.19 |
| 0/1 | 1/1 | 2.85 | 3.5 |
| 1/1 | 1/1 | 6.62 | 7.62 |
| 0/1 | 1/1 | 5.42 | 6.45 |
| 0/1 | 1/1 | 2.77 | 4.18 |
| 1/1 | 1/1 | 4 | 7.72 |
| 1/1 | 0/1 | 7.89 | 6.86 |
| 1/1 | 1/1 | 8.52 | 8.01 |
| 1/1 | 1/1 | 6.72 | 6.61 |
| 1/1 | 1/1 | 8.25 | 8.21 |
| 1/1 | 1/1 | 5.88 | 6.02 |
| 1/1 | 1/1 | 6.27 | 6.48 |
| 1/1 | 1/1 | 6.67 | 6.9 |
| 1/1 | 1/1 | 7.84 | 8.09 |
| 1/1 | 1/1 | 6.45 | 6.73 |
| 1/1 | 1/1 | 5.7 | 6.04 |
| 1/1 | 1/1 | 6.27 | 6.63 |
| 1/1 | 1/1 | 4.7 | 5.15 |
| 1/1 | 1/1 | 6.75 | 7.25 |
| 0/1 | 1/1 | 5.05 | 5.82 |
| 1/1 | 1/1 | 4.83 | 5.63 |
| 0/1 | 1/1 | 3.67 | 4.5 |
| 1/1 | 1/1 | 6.98 | 7.82 |
| 1/1 | 1/1 | 6.95 | 7.81 |
| 1/1 | 1/1 | 6.09 | 7.2 |
| 0/1 | 1/1 | 5.29 | 6.54 |
| 1/1 | 1/1 | 7.41 | 8.77 |
| 1/1 | 1/1 | 5.65 | 5.15 |
| 1/1 | 1/1 | 7.17 | 6.72 |
| 1/1 | 1/1 | 5.38 | 5.22 |
| 0/1 | 1/1 | 2.96 | 2.9 |
| 0/1 | 1/1 | 2.66 | 2.98 |
| 0/1 | 1/1 | 7.02 | 7.65 |
| 0/1 | 1/1 | 2.5 | 3.45 |
| 0/1 | 1/1 | 3.96 | 5.06 |
| 1/1 | 1/1 | 5.96 | 7.31 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 9.35 | 11.18 |
| 1/1 | 1/1 | 5.4 | 9.65 |
| 1/1 | 1/1 | 4.11 | 8.48 |
| 1/1 | 1/1 | 5.58 | 10.04 |
| 1/1 | 1/1 | 3.8 | 8.5 |
| 0/1 | 1/1 | 3.17 | 9.2 |
| 1/1 | 1/1 | 7.95 | 4.8 |
| 1/1 | 1/1 | 8.64 | 7.82 |
| 1/1 | 0/1 | 5.82 | 3.33 |
| 1/1 | 1/1 | 6.72 | 6.01 |
| 1/1 | 1/1 | 7.43 | 6.89 |
| 1/1 | 1/1 | 8.05 | 7.6 |
| 1/1 | 1/1 | 7.79 | 7.34 |
| 1/1 | 1/1 | 8.29 | 7.84 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 7.04 | 6.66 |
| 1/1 | 1/1 | 7.34 | 7.12 |
| 1/1 | 1/1 | 5.96 | 5.87 |
| 1/1 | 1/1 | 9.03 | 8.96 |
| 1/1 | 1/1 | 7.87 | 7.84 |
| 1/1 | 1/1 | 5.91 | 5.89 |
| 1/1 | 1/1 | 7.64 | 7.63 |
| 0/1 | 1/1 | 3.03 | 5.31 |
| 1/1 | 1/1 | 5.22 | 7.59 |
| 0/1 | 1/1 | 3.68 | 6.07 |
| 0/1 | 1/1 | 2.53 | 5.09 |
| 1/1 | 1/1 | 2.81 | 5.53 |
| 1/1 | 1/1 | 5.83 | 8.73 |
| 0/1 | 1/1 | 3.31 | 6.87 |
| 0/1 | 1/1 | 2.49 | 6.16 |
| 1/1 | 1/1 | 4.71 | 3.15 |
| 1/1 | 1/1 | 6.68 | 5.27 |
| 1/1 | 1/1 | 4.9 | 3.76 |
| 1/1 | 1/1 | 7.64 | 7 |
| 1/1 | 1/1 | 5.87 | 5.46 |
| 1/1 | 1/1 | 5.03 | 4.79 |
| 1/1 | 1/1 | 4.14 | 4.09 |
| 1/1 | 1/1 | 5.54 | 5.76 |
| 0/1 | 1/1 | 3.37 | 3.6 |
| 1/1 | 1/1 | 4.9 | 5.16 |
| 0/1 | 1/1 | 2.5 | 2.8 |
| 1/1 | 1/1 | 2.87 | 3.21 |
| 1/1 | 1/1 | 4.84 | 5.31 |
| 0/1 | 1/1 | 2.21 | 2.78 |
| 0/1 | 1/1 | 2.3 | 3.08 |
| 1/1 | 1/1 | 4.76 | 5.53 |
| 1/1 | 1/1 | 2.56 | 3.43 |
| 1/1 | 1/1 | 6.34 | 4.98 |
| 1/1 | 1/1 | 7.52 | 6.54 |
| 1/1 | 1/1 | 7.12 | 6.41 |
| 1/1 | 1/1 | 6.08 | 5.39 |
| 1/1 | 1/1 | 3.87 | 3.33 |
| 1/1 | 1/1 | 2.99 | 2.5 |
| 1/1 | 1/1 | 7.98 | 7.53 |
| 1/1 | 1/1 | 9.67 | 9.26 |
| 1/1 | 1/1 | 6.29 | 5.91 |
| 1/1 | 1/1 | 5.4 | 5.13 |
| 1/1 | 1/1 | 5.49 | 5.25 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 6.42 | 6.18 |
| 0/1 | 1/1 | 3.28 | 3.06 |
| 1/1 | 1/1 | 4.47 | 4.28 |
| 0/1 | 1/1 | 3.26 | 3.13 |
| 1/1 | 1/1 | 4.01 | 3.94 |
| 1/1 | 1/1 | 6.47 | 6.46 |
| 1/1 | 1/1 | 5.6 | 5.61 |
| 1/1 | 1/1 | 6.48 | 6.54 |
| 1/1 | 1/1 | 7.09 | 7.42 |
| 0/1 | 1/1 | 2.63 | 3 |
| 1/1 | 1/1 | 9.38 | 9.79 |
| 1/1 | 1/1 | 7.34 | 7.86 |
| 1/1 | 1/1 | 4.57 | 5.2 |
| 1/1 | 1/1 | 9.51 | 10.15 |
| 1/1 | 1/1 | 9.12 | 9.76 |
| 0/1 | 1/1 | 5.41 | 6.06 |
| 1/1 | 1/1 | 3.39 | 4.07 |
| 1/1 | 1/1 | 7.3 | 8.07 |
| 1/1 | 1/1 | 7.91 | 8.68 |
| 1/1 | 1/1 | 6.14 | 6.97 |
| 0/1 | 1/1 | 2.62 | 3.5 |
| 0/1 | 1/1 | 3.62 | 4.53 |
| 0/1 | 1/1 | 2.45 | 3.39 |
| 0/1 | 1/1 | 4.05 | 5 |
| 0/1 | 1/1 | 1.74 | 2.74 |
| 1/1 | 1/1 | 5.85 | 6.86 |
| 1/1 | 1/1 | 4.59 | 5.61 |
| 1/1 | 1/1 | 3.66 | 6.79 |
| 1/1 | 1/1 | 3.44 | 6.67 |
| 0/1 | 1/1 | 1.9 | 5.27 |
| 0/1 | 1/1 | 3.27 | 6.87 |
| 0/1 | 1/1 | 2.17 | 5.85 |
| 1/1 | 1/1 | 7.2 | 5.05 |
| 1/1 | 1/1 | 3.85 | 3.25 |
| 1/1 | 1/1 | 7.35 | 6.8 |
| 1/1 | 0/1 | 5.28 | 4.75 |
| 1/1 | 1/1 | 6.41 | 5.88 |
| 1/1 | 1/1 | 6.92 | 6.39 |
| 1/1 | 0/1 | 3.16 | 2.64 |
| 0/1 | 1/1 | 6.24 | 5.74 |
| 1/1 | 1/1 | 6 | 5.51 |
| 1/1 | 1/1 | 8.09 | 7.62 |
| 1/1 | 0/1 | 4.12 | 3.69 |
| 1/1 | 1/1 | 4.78 | 4.37 |
| 1/1 | 1/1 | 6.73 | 6.36 |
| 1/1 | 1/1 | 5.72 | 5.39 |
| 1/1 | 1/1 | 7.29 | 6.98 |
| 1/1 | 1/1 | 5.47 | 5.21 |
| 1/1 | 1/1 | 5.42 | 5.19 |
| 1/1 | 1/1 | 6.31 | 6.1 |
| 1/1 | 1/1 | 5.5 | 5.39 |
| 1/1 | 1/1 | 6.2 | 6.1 |
| 1/1 | 1/1 | 6.54 | 6.48 |
| 0/1 | 1/1 | 5.31 | 5.26 |
| 0/1 | 1/1 | 5.05 | 5.04 |
| 1/1 | 1/1 | 6.7 | 6.7 |
| 0/1 | 1/1 | 5.39 | 5.43 |
| 1/1 | 1/1 | 5.21 | 5.25 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.32 | 7.4 |
| 0/1 | 1/1 | 3.92 | 4.04 |
| 1/1 | 1/1 | 6.85 | 6.99 |
| 1/1 | 1/1 | 11.4 | 11.54 |
| 1/1 | 1/1 | 6.1 | 6.27 |
| 0/1 | 1/1 | 5.29 | 5.46 |
| 1/1 | 1/1 | 6.35 | 6.53 |
| 1/1 | 1/1 | 5.22 | 5.41 |
| 0/1 | 1/1 | 6.84 | 7.04 |
| 0/1 | 1/1 | 4.34 | 4.55 |
| 1/1 | 1/1 | 5.01 | 5.26 |
| 0/1 | 1/1 | 5.86 | 6.14 |
| 1/1 | 1/1 | 6.01 | 5.72 |
| 1/1 | 1/1 | 4.98 | 4.86 |
| 1/1 | 1/1 | 6.21 | 6.19 |
| 1/1 | 1/1 | 7.69 | 7.72 |
| 1/1 | 1/1 | 5.5 | 5.61 |
| 0/1 | 1/1 | 2.93 | 3.23 |
| 1/1 | 1/1 | 5.83 | 6.64 |
| 1/1 | 1/1 | 4.42 | 5.4 |
| 1/1 | 1/1 | 3.67 | 4.9 |
| 1/1 | 1/1 | 4.43 | 5.66 |
| 1/1 | 1/1 | 8.91 | 10.22 |
| 1/1 | 1/1 | 6.83 | 8.59 |
| 0/1 | 1/1 | 3.43 | 5.22 |
| 1/1 | 1/1 | 7.02 | 8.99 |
| 1/1 | 1/1 | 7.12 | 9.13 |
| 0/1 | 1/1 | 2.44 | 6.85 |
| 0/1 | 1/1 | 3.07 | 7.49 |
| 1/1 | 1/1 | 5.87 | 10.42 |
| 1/1 | 1/1 | 8.79 | 2.73 |
| 1/1 | 0/1 | 8.56 | 3.43 |
| 1/1 | 1/1 | 9.35 | 4.36 |
| 1/1 | 1/1 | 8.62 | 4.2 |
| 1/1 | 1/1 | 8.68 | 4.31 |
| 1/1 | 1/1 | 7.91 | 3.75 |
| 1/1 | 1/1 | 7.26 | 3.24 |
| 1/1 | 1/1 | 10.47 | 6.57 |
| 1/1 | 1/1 | 10.19 | 6.31 |
| 1/1 | 1/1 | 10.44 | 6.66 |
| 1/1 | 1/1 | 11.85 | 8.17 |
| 1/1 | 1/1 | 11.02 | 9.88 |
| 1/1 | 1/1 | 5.45 | 4.32 |
| 1/1 | 1/1 | 3.22 | 2.17 |
| 1/1 | 1/1 | 4.12 | 3.41 |
| 1/1 | 1/1 | 6.08 | 5.41 |
| 1/1 | 1/1 | 8.04 | 7.45 |
| 1/1 | 1/1 | 4.7 | 4.12 |
| 1/1 | 1/1 | 6.96 | 6.42 |
| 1/1 | 1/1 | 7.26 | 6.82 |
| 1/1 | 1/1 | 8.51 | 8.13 |
| 1/1 | 1/1 | 7.72 | 7.34 |
| 1/1 | 1/1 | 7.57 | 7.27 |
| 1/1 | 1/1 | 6.19 | 5.91 |
| 1/1 | 1/1 | 7.04 | 6.78 |
| 1/1 | 0/1 | 2.27 | 2.07 |
| 0/1 | 1/1 | 7.42 | 7.3 |
| 1/1 | 1/1 | 6.83 | 6.81 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 7.82 | 7.9 |
| 1/1 | 1/1 | 6.05 | 6.2 |
| 1/1 | 1/1 | 5.1 | 5.29 |
| 1/1 | 1/1 | 6.29 | 6.5 |
| 1/1 | 1/1 | 5.53 | 5.74 |
| 1/1 | 1/1 | 6.52 | 6.76 |
| 1/1 | 1/1 | 6.54 | 6.78 |
| 0/1 | 1/1 | 5.68 | 6.01 |
| 1/1 | 1/1 | 7.15 | 7.6 |
| 1/1 | 1/1 | 5.18 | 6.43 |
| 1/1 | 0/1 | 3.46 | 2.16 |
| 1/1 | 0/1 | 4.25 | 3.84 |
| 1/1 | 1/1 | 7.88 | 7.67 |
| 1/1 | 1/1 | 6.16 | 6.01 |
| 1/1 | 1/1 | 6.19 | 6.25 |
| 0/1 | 1/1 | 3.14 | 3.25 |
| 1/1 | 1/1 | 6.25 | 6.72 |
| 0/1 | 1/1 | 3.71 | 4.24 |
| 1/1 | 1/1 | 8.71 | 9.37 |
| 0/1 | 1/1 | 1.96 | 2.91 |
| 0/1 | 1/1 | 3.52 | 4.53 |
| 1/1 | 1/1 | 7.09 | 8.17 |
| 1/1 | 1/1 | 6.78 | 7.91 |
| 0/1 | 1/1 | 2.75 | 5.87 |
| 1/1 | 1/1 | 5 | 8.19 |
| 1/1 | 1/1 | 4.21 | 7.45 |
| 0/1 | 1/1 | 3.71 | 7.23 |
| 1/1 | 1/1 | 4.82 | 8.94 |
| 0/1 | 1/1 | 3.08 | 7.39 |
| 1/1 | 1/1 | 3.94 | 3.22 |
| 1/1 | 1/1 | 7.46 | 6.98 |
| 1/1 | 1/1 | 6.93 | 6.47 |
| 1/1 | 1/1 | 5.77 | 5.41 |
| 1/1 | 1/1 | 6.52 | 6.22 |
| 1/1 | 1/1 | 9.01 | 8.78 |
| 0/1 | 1/1 | 3.41 | 3.37 |
| 1/1 | 1/1 | 6.03 | 6.02 |
| 1/1 | 1/1 | 7.73 | 7.76 |
| 0/1 | 1/1 | 4.95 | 5.04 |
| 1/1 | 1/1 | 8.94 | 9.05 |
| 1/1 | 1/1 | 7.83 | 8.18 |
| 1/1 | 1/1 | 9.56 | 10.02 |
| 0/1 | 1/1 | 6.38 | 7.03 |
| 0/1 | 1/1 | 6.17 | 6.83 |
| 1/1 | 1/1 | 7.93 | 9.04 |
| 0/1 | 1/1 | 6.31 | 7.68 |
| 1/1 | 1/1 | 8.27 | 9.67 |
| 1/1 | 1/1 | 8.22 | 9.7 |
| 1/1 | 1/1 | 6.82 | 8.34 |
| 1/1 | 1/1 | 8.21 | 9.72 |
| 1/1 | 1/1 | 7.03 | 8.6 |
| 1/1 | 1/1 | 7.15 | 8.78 |
| 1/1 | 1/1 | 3.94 | 5.63 |
| 1/1 | 1/1 | 6.91 | 10.62 |
| 0/1 | 1/1 | 5.61 | 9.32 |
| 1/1 | 1/1 | 5.77 | 9.51 |
| 1/1 | 1/1 | 6.46 | 10.21 |
| 1/1 | 1/1 | 6.41 | 10.19 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.48 | 9.28 |
| 1/1 | 1/1 | 6.27 | 10.15 |
| 1/1 | 1/1 | 4.86 | 8.85 |
| 1/1 | 1/1 | 5.74 | 9.75 |
| 1/1 | 1/1 | 5.37 | 9.45 |
| 0/1 | 1/1 | 4.51 | 8.75 |
| 1/1 | 1/1 | 5.42 | 9.72 |
| 1/1 | 1/1 | 5.05 | 9.51 |
| 0/1 | 1/1 | 2.92 | 8.2 |
| 1/1 | 1/1 | 5.99 | 5.17 |
| 1/1 | 1/1 | 5.72 | 5.12 |
| 1/1 | 1/1 | 11.11 | 10.6 |
| 1/1 | 1/1 | 4.34 | 3.84 |
| 1/1 | 1/1 | 5.52 | 5.08 |
| 1/1 | 1/1 | 6.85 | 6.42 |
| 1/1 | 1/1 | 6.52 | 6.38 |
| 1/1 | 1/1 | 6.81 | 6.75 |
| 0/1 | 1/1 | 5.35 | 5.29 |
| 1/1 | 1/1 | 6.29 | 6.48 |
| 1/1 | 1/1 | 4.42 | 4.62 |
| 0/1 | 1/1 | 3.1 | 3.36 |
| 1/1 | 1/1 | 6.71 | 7.06 |
| 1/1 | 1/1 | 4.52 | 5.1 |
| 1/1 | 1/1 | 6.74 | 7.71 |
| 0/1 | 1/1 | 3.46 | 7.56 |
| 1/1 | 0/1 | 7.22 | 2.82 |
| 1/1 | 0/1 | 6.06 | 2.82 |
| 1/1 | 1/1 | 7.21 | 4.43 |
| 1/1 | 1/1 | 6.56 | 6.86 |
| 0/1 | 1/1 | 3.81 | 4.12 |
| 0/1 | 1/1 | 2.65 | 3.21 |
| 0/1 | 1/1 | 6.15 | 5.93 |
| 1/1 | 1/1 | 8.47 | 8.43 |
| 1/1 | 1/1 | 3.87 | 3.85 |
| 1/1 | 1/1 | 7.47 | 7.59 |
| 0/1 | 1/1 | 7.23 | 7.68 |
| 1/1 | 1/1 | 9.13 | 9.6 |
| 1/1 | 1/1 | 2.82 | 3.36 |
| 0/1 | 1/1 | 2.18 | 2.85 |
| 1/1 | 1/1 | 4.53 | 5.27 |
| 0/1 | 1/1 | 2.18 | 3.71 |
| 0/1 | 1/1 | 2.31 | 3.96 |
| 1/1 | 1/1 | 6.29 | 7.95 |
| 0/1 | 1/1 | 4.72 | 6.52 |
| 1/1 | 1/1 | 7.27 | 9.17 |
| 1/1 | 1/1 | 4.24 | 8.45 |
| 1/1 | 1/1 | 4.06 | 8.59 |
| 0/1 | 1/1 | 2.54 | 7.41 |
| 1/1 | 1/1 | 11.16 | 9.07 |
| 1/1 | 1/1 | 6.48 | 6.12 |
| 0/1 | 1/1 | 4.71 | 4.44 |
| 1/1 | 1/1 | 6.81 | 6.78 |
| 1/1 | 1/1 | 2.49 | 2.53 |
| 1/1 | 1/1 | 7.11 | 7.18 |
| 0/1 | 1/1 | 3.85 | 4.05 |
| 1/1 | 1/1 | 6.3 | 6.55 |
| 1/1 | 1/1 | 4.76 | 5.03 |
| 1/1 | 0/1 | 6.2 | 3.09 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.38 | 3.97 |
| 1/1 | 0/1 | 4.03 | 2.41 |
| 1/1 | 1/1 | 5.33 | 4.39 |
| 1/1 | 1/1 | 4.48 | 3.58 |
| 1/1 | 1/1 | 5.58 | 4.82 |
| 0/1 | 1/1 | 3.53 | 4.86 |
| 0/1 | 1/1 | 3.39 | 4.84 |
| 0/1 | 1/1 | 1.86 | 4.53 |
| 1/1 | 1/1 | 6.92 | 4.37 |
| 1/1 | 0/1 | 6.1 | 3.81 |
| 1/1 | 1/1 | 6.56 | 5.91 |
| 0/1 | 1/1 | 6.19 | 5.77 |
| 1/1 | 1/1 | 2.78 | 2.48 |
| 1/1 | 1/1 | 4.32 | 4.02 |
| 1/1 | 1/1 | 6.52 | 6.21 |
| 1/1 | 1/1 | 3.81 | 3.51 |
| 1/1 | 1/1 | 3.85 | 3.66 |
| 0/1 | 1/1 | 2.03 | 3.95 |
| 1/1 | 1/1 | 4.92 | 7.02 |
| 1/1 | 1/1 | 5.01 | 7.13 |
| 1/1 | 0/1 | 8.02 | 7.04 |
| 1/1 | 1/1 | 8.08 | 7.35 |
| 1/1 | 1/1 | 5.2 | 4.55 |
| 1/1 | 1/1 | 4.96 | 4.53 |
| 0/1 | 1/1 | 4.29 | 3.91 |
| 1/1 | 1/1 | 7.16 | 6.9 |
| 0/1 | 1/1 | 4.69 | 4.51 |
| 1/1 | 1/1 | 7.37 | 7.22 |
| 1/1 | 1/1 | 4.33 | 4.31 |
| 0/1 | 1/1 | 3.23 | 3.27 |
| 0/1 | 1/1 | 2.58 | 2.66 |
| 1/1 | 1/1 | 2.58 | 2.68 |
| 1/1 | 1/1 | 5.86 | 5.96 |
| 1/1 | 1/1 | 10.57 | 10.69 |
| 1/1 | 1/1 | 6.59 | 6.78 |
| 0/1 | 1/1 | 3.4 | 3.69 |
| 0/1 | 1/1 | 5.84 | 6.15 |
| 1/1 | 1/1 | 9.42 | 9.8 |
| 1/1 | 1/1 | 5.74 | 6.2 |
| 1/1 | 1/1 | 4.82 | 5.35 |
| 1/1 | 1/1 | 5.27 | 5.8 |
| 1/1 | 1/1 | 5.5 | 6.21 |
| 1/1 | 1/1 | 8.2 | 8.9 |
| 0/1 | 1/1 | 5.37 | 6.13 |
| 1/1 | 1/1 | 5.61 | 6.5 |
| 0/1 | 1/1 | 2.7 | 3.61 |
| 1/1 | 1/1 | 4.82 | 5.77 |
| 0/1 | 1/1 | 3.87 | 4.84 |
| 1/1 | 1/1 | 5.41 | 6.52 |
| 1/1 | 1/1 | 5.37 | 6.56 |
| 1/1 | 1/1 | 6.65 | 7.88 |
| 0/1 | 1/1 | 6.25 | 7.53 |
| 1/1 | 1/1 | 4.43 | 7.83 |
| 1/1 | 1/1 | 3.92 | 7.5 |
| 0/1 | 1/1 | 3.65 | 7.8 |
| 0/1 | 1/1 | 1.99 | 6.18 |
| 0/1 | 1/1 | 3.32 | 7.92 |
| 1/1 | 1/1 | 3.98 | 8.63 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 5.3 | 2.84 |
| 1/1 | 0/1 | 3.84 | 2.56 |
| 1/1 | 1/1 | 7.06 | 6.18 |
| 1/1 | 1/1 | 3.63 | 3.11 |
| 1/1 | 1/1 | 5.26 | 4.79 |
| 1/1 | 1/1 | 5.21 | 4.76 |
| 1/1 | 1/1 | 6.68 | 6.27 |
| 1/1 | 1/1 | 6.3 | 5.9 |
| 1/1 | 1/1 | 4.7 | 4.31 |
| 1/1 | 1/1 | 6.72 | 6.4 |
| 1/1 | 1/1 | 6.59 | 6.35 |
| 1/1 | 1/1 | 8.38 | 8.17 |
| 1/1 | 1/1 | 5.64 | 5.49 |
| 1/1 | 0/1 | 8.39 | 2.46 |
| 1/1 | 0/1 | 7.19 | 2.69 |
| 1/1 | 0/1 | 7.38 | 3.2 |
| 1/1 | 0/1 | 7.15 | 3.13 |
| 1/1 | 1/1 | 8.23 | 4.23 |
| 1/1 | 1/1 | 7.58 | 3.81 |
| 1/1 | 1/1 | 8.54 | 4.9 |
| 1/1 | 1/1 | 5.41 | 4.03 |
| 1/1 | 1/1 | 6.99 | 5.63 |
| 1/1 | 1/1 | 4.81 | 3.46 |
| 1/1 | 1/1 | 8.08 | 6.83 |
| 1/1 | 0/1 | 7.34 | 6.14 |
| 1/1 | 1/1 | 6.77 | 5.78 |
| 1/1 | 1/1 | 7.15 | 6.46 |
| 1/1 | 1/1 | 8.9 | 8.45 |
| 0/1 | 1/1 | 6.95 | 6.53 |
| 1/1 | 0/1 | 8.26 | 3.77 |
| 1/1 | 0/1 | 6.67 | 2.74 |
| 1/1 | 1/1 | 7.55 | 4.76 |
| 1/1 | 1/1 | 8.65 | 5.9 |
| 1/1 | 0/1 | 6.02 | 3.47 |
| 1/1 | 1/1 | 7.78 | 5.45 |
| 1/1 | 1/1 | 3.28 | 3.17 |
| 1/1 | 0/1 | 3.03 | 2.94 |
| 1/1 | 1/1 | 5.46 | 5.45 |
| 1/1 | 1/1 | 3.78 | 3.86 |
| 0/1 | 1/1 | 6.02 | 6.33 |
| 0/1 | 1/1 | 3.42 | 3.84 |
| 1/1 | 1/1 | 9.2 | 5.3 |
| 1/1 | 0/1 | 10.21 | 6.32 |
| 1/1 | 1/1 | 11.12 | 7.31 |
| 1/1 | 1/1 | 8.94 | 5.46 |
| 1/1 | 1/1 | 9.6 | 6.4 |
| 1/1 | 0/1 | 8.83 | 5.64 |
| 1/1 | 1/1 | 7.69 | 4.74 |
| 1/1 | 1/1 | 9.49 | 6.55 |
| 1/1 | 0/1 | 7.34 | 4.41 |
| 1/1 | 0/1 | 8.44 | 5.54 |
| 1/1 | 1/1 | 9.58 | 6.82 |
| 1/1 | 1/1 | 8.09 | 5.36 |
| 1/1 | 1/1 | 8.28 | 5.56 |
| 1/1 | 1/1 | 9.02 | 6.34 |
| 1/1 | 0/1 | 7.94 | 5.41 |
| 1/1 | 0/1 | 5.52 | 3.08 |
| 1/1 | 1/1 | 8.2 | 5.77 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.22 | 5.85 |
| 1/1 | 1/1 | 8.18 | 5.93 |
| 1/1 | 1/1 | 10.88 | 8.65 |
| 1/1 | 1/1 | 7.56 | 5.37 |
| 1/1 | 1/1 | 8.65 | 6.48 |
| 1/1 | 1/1 | 6.98 | 4.84 |
| 1/1 | 1/1 | 7.5 | 5.47 |
| 1/1 | 1/1 | 8.58 | 6.67 |
| 1/1 | 1/1 | 8.3 | 6.41 |
| 1/1 | 1/1 | 6.07 | 4.24 |
| 1/1 | 1/1 | 8.37 | 6.57 |
| 1/1 | 0/1 | 7 | 5.27 |
| 1/1 | 1/1 | 8.6 | 6.99 |
| 1/1 | 1/1 | 11.01 | 9.41 |
| 1/1 | 1/1 | 5.29 | 5.72 |
| 1/1 | 1/1 | 8.64 | 9.11 |
| 0/1 | 1/1 | 5.34 | 5.82 |
| 0/1 | 1/1 | 5.73 | 6.22 |
| 1/1 | 1/1 | 6.39 | 7.03 |
| 0/1 | 1/1 | 6.03 | 6.82 |
| 1/1 | 1/1 | 6.32 | 6 |
| 1/1 | 1/1 | 4.95 | 4.68 |
| 0/1 | 1/1 | 6.13 | 5.88 |
| 1/1 | 1/1 | 6.72 | 6.68 |
| 1/1 | 1/1 | 5.97 | 5.95 |
| 0/1 | 1/1 | 4.81 | 4.8 |
| 1/1 | 1/1 | 5.96 | 5.95 |
| 1/1 | 1/1 | 6.54 | 6.53 |
| 1/1 | 1/1 | 7.15 | 7.21 |
| 0/1 | 1/1 | 7 | 7.06 |
| 1/1 | 1/1 | 8.07 | 8.18 |
| 1/1 | 1/1 | 5.75 | 5.89 |
| 1/1 | 1/1 | 6.55 | 6.77 |
| 0/1 | 1/1 | 4.76 | 5.05 |
| 1/1 | 1/1 | 5.81 | 6.15 |
| 0/1 | 1/1 | 3.9 | 4.26 |
| 1/1 | 1/1 | 5 | 5.55 |
| 0/1 | 1/1 | 5.5 | 6.18 |
| 1/1 | 1/1 | 8.94 | 9.74 |
| 0/1 | 1/1 | 6.4 | 7.27 |
| 0/1 | 1/1 | 7.51 | 8.39 |
| 1/1 | 1/1 | 8.79 | 9.76 |
| 1/1 | 1/1 | 10.58 | 11.75 |
| 1/1 | 1/1 | 6.19 | 7.57 |
| 1/1 | 1/1 | 8.3 | 9.72 |
| 0/1 | 1/1 | 5.65 | 7.21 |
| 0/1 | 1/1 | 2.35 | 3.92 |
| 1/1 | 1/1 | 6.25 | 7.91 |
| 1/1 | 1/1 | 5.42 | 9.48 |
| 0/1 | 1/1 | 2.31 | 6.85 |
| 0/1 | 1/1 | 5.04 | 10.08 |
| 0/1 | 1/1 | 3.63 | 8.87 |
| 0/1 | 1/1 | 2.77 | 8.67 |
| 0/1 | 1/1 | 2.63 | 8.83 |
| 0/1 | 1/1 | 2.11 | 9.43 |
| 0/1 | 1/1 | 2.54 | 10.11 |
| 1/1 | 0/1 | 6.08 | 4.85 |
| 1/1 | 0/1 | 5.78 | 5.16 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.04 | 9.64 |
| 1/1 | 1/1 | 7.42 | 7.09 |
| 1/1 | 1/1 | 7.65 | 7.43 |
| 1/1 | 1/1 | 4.93 | 4.75 |
| 1/1 | 1/1 | 8.1 | 8.02 |
| 0/1 | 1/1 | 6.53 | 6.51 |
| 0/1 | 1/1 | 6.92 | 6.95 |
| 1/1 | 1/1 | 6.13 | 6.2 |
| 1/1 | 1/1 | 6.9 | 7.12 |
| 0/1 | 1/1 | 5.06 | 5.29 |
| 1/1 | 1/1 | 5.4 | 5.69 |
| 1/1 | 1/1 | 8.98 | 9.3 |
| 1/1 | 1/1 | 6.07 | 6.4 |
| 1/1 | 1/1 | 9.87 | 10.22 |
| 1/1 | 1/1 | 4.14 | 4.5 |
| 1/1 | 1/1 | 6.56 | 6.98 |
| 0/1 | 1/1 | 6.72 | 7.14 |
| 0/1 | 1/1 | 6.17 | 6.6 |
| 1/1 | 1/1 | 4.93 | 5.4 |
| 0/1 | 1/1 | 7.23 | 7.69 |
| 1/1 | 1/1 | 5.14 | 5.63 |
| 0/1 | 1/1 | 5.02 | 5.53 |
| 0/1 | 1/1 | 7.25 | 7.8 |
| 0/1 | 1/1 | 4.45 | 5.03 |
| 1/1 | 1/1 | 4.7 | 5.35 |
| 1/1 | 1/1 | 9.59 | 10.26 |
| 0/1 | 1/1 | 5.27 | 6.05 |
| 1/1 | 1/1 | 10.55 | 11.37 |
| 1/1 | 1/1 | 6.9 | 7.8 |
| 1/1 | 1/1 | 8.68 | 9.6 |
| 1/1 | 1/1 | 5.88 | 6.86 |
| 1/1 | 1/1 | 5.35 | 6.37 |
| 1/1 | 1/1 | 7.18 | 8.26 |
| 0/1 | 1/1 | 5.8 | 8.95 |
| 1/1 | 1/1 | 5.34 | 8.64 |
| 1/1 | 1/1 | 3.77 | 7.09 |
| 1/1 | 1/1 | 5.81 | 9.26 |
| 1/1 | 1/1 | 5.39 | 8.94 |
| 0/1 | 1/1 | 6.77 | 6.73 |
| 1/1 | 1/1 | 9.06 | 9.11 |
| 0/1 | 1/1 | 6.88 | 7.33 |
| 1/1 | 1/1 | 5.23 | 6.16 |
| 1/1 | 1/1 | 6.09 | 8.1 |
| 1/1 | 1/1 | 5.43 | 4.38 |
| 1/1 | 1/1 | 7.04 | 6.5 |
| 1/1 | 1/1 | 7.57 | 7.09 |
| 1/1 | 1/1 | 5.06 | 4.68 |
| 1/1 | 1/1 | 7.48 | 7.1 |
| 1/1 | 1/1 | 7.48 | 7.12 |
| 0/1 | 1/1 | 4.54 | 4.33 |
| 1/1 | 1/1 | 9.69 | 9.54 |
| 1/1 | 1/1 | 9.05 | 8.91 |
| 1/1 | 1/1 | 7.24 | 7.15 |
| 1/1 | 1/1 | 7.21 | 7.22 |
| 0/1 | 1/1 | 6.59 | 6.64 |
| 1/1 | 1/1 | 9.56 | 9.7 |
| 1/1 | 1/1 | 5.77 | 5.96 |
| 0/1 | 1/1 | 6.53 | 6.98 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.62 | 6.15 |
| 1/1 | 1/1 | 5.92 | 9.35 |
| 0/1 | 1/1 | 2.06 | 5.63 |
| 1/1 | 1/1 | 8.58 | 7.37 |
| 1/1 | 1/1 | 8.81 | 7.95 |
| 1/1 | 1/1 | 5.73 | 5.48 |
| 1/1 | 1/1 | 8.74 | 8.53 |
| 1/1 | 1/1 | 4.68 | 4.5 |
| 1/1 | 1/1 | 7.02 | 6.86 |
| 1/1 | 1/1 | 6.3 | 6.3 |
| 1/1 | 1/1 | 11.62 | 11.68 |
| 1/1 | 1/1 | 6.51 | 6.59 |
| 1/1 | 1/1 | 6.62 | 6.89 |
| 1/1 | 1/1 | 9.6 | 10.02 |
| 1/1 | 1/1 | 9.26 | 9.74 |
| 1/1 | 1/1 | 8.58 | 9.12 |
| 1/1 | 1/1 | 8.74 | 9.35 |
| 0/1 | 1/1 | 3.5 | 4.15 |
| 1/1 | 1/1 | 5.35 | 6.04 |
| 0/1 | 1/1 | 3.89 | 7.12 |
| 0/1 | 1/1 | 5.42 | 8.82 |
| 0/1 | 1/1 | 5.3 | 8.9 |
| 1/1 | 1/1 | 6.66 | 2.83 |
| 1/1 | 0/1 | 7.1 | 3.49 |
| 1/1 | 0/1 | 5.91 | 3.07 |
| 1/1 | 0/1 | 5.43 | 3.49 |
| 1/1 | 0/1 | 7.56 | 5.87 |
| 1/1 | 0/1 | 4.41 | 2.66 |
| 1/1 | 1/1 | 7.14 | 6.05 |
| 1/1 | 1/1 | 8.96 | 8.65 |
| 1/1 | 1/1 | 5.38 | 5.15 |
| 1/1 | 1/1 | 3.9 | 3.71 |
| 1/1 | 1/1 | 6.94 | 6.83 |
| 1/1 | 1/1 | 5.74 | 5.7 |
| 1/1 | 1/1 | 4.13 | 4.48 |
| 1/1 | 0/1 | 3.99 | 2.47 |
| 1/1 | 1/1 | 3.55 | 3.12 |
| 1/1 | 1/1 | 3.09 | 3.08 |
| 1/1 | 1/1 | 4.42 | 4.54 |
| 1/1 | 1/1 | 8.37 | 8.5 |
| 1/1 | 1/1 | 2.6 | 2.73 |
| 1/1 | 1/1 | 3.25 | 3.4 |
| 1/1 | 1/1 | 5.76 | 5.9 |
| 1/1 | 1/1 | 6.26 | 6.66 |
| 1/1 | 1/1 | 3.52 | 3.93 |
| 0/1 | 1/1 | 4.87 | 5.31 |
| 1/1 | 1/1 | 4.49 | 7.42 |
| 1/1 | 1/1 | 3.96 | 6.93 |
| 1/1 | 1/1 | 4.87 | 7.86 |
| 0/1 | 1/1 | 2.7 | 6.1 |
| 1/1 | 0/1 | 6.46 | 3.2 |
| 1/1 | 1/1 | 5.79 | 3.46 |
| 1/1 | 0/1 | 5.63 | 3.45 |
| 1/1 | 0/1 | 3.46 | 1.94 |
| 0/1 | 1/1 | 3.59 | 5.02 |
| 1/1 | 1/1 | 8.16 | 7.1 |
| 1/1 | 1/1 | 7.32 | 6.85 |
| 1/1 | 1/1 | 4.99 | 5.1 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 12.89 | 13.11 |
| 0/1 | 1/1 | 2.66 | 3.28 |
| 1/1 | 1/1 | 5.48 | 6.19 |
| 1/1 | 1/1 | 7.61 | 11.03 |
| 1/1 | 1/1 | 7.17 | 10.66 |
| 1/1 | 1/1 | 6.7 | 10.32 |
| 1/1 | 1/1 | 6.05 | 9.87 |
| 1/1 | 1/1 | 5.44 | 9.3 |
| 1/1 | 1/1 | 5.88 | 10.02 |
| 1/1 | 1/1 | 5.03 | 9.62 |
| 1/1 | 1/1 | 7.32 | 6.94 |
| 1/1 | 1/1 | 9 | 8.97 |
| 1/1 | 1/1 | 5.38 | 5.4 |
| 0/1 | 1/1 | 4.06 | 4.47 |
| 1/1 | 1/1 | 10.28 | 10.77 |
| 1/1 | 1/1 | 8.28 | 9.09 |
| 0/1 | 1/1 | 2.61 | 3.43 |
| 1/1 | 1/1 | 7.55 | 8.59 |
| 0/1 | 1/1 | 3.17 | 4.27 |
| 1/1 | 1/1 | 8.27 | 9.4 |
| 0/1 | 1/1 | 6.4 | 7.82 |
| 1/1 | 1/1 | 5 | 6.42 |
| 1/1 | 1/1 | 9.35 | 10.88 |
| 0/1 | 1/1 | 5.6 | 7.14 |
| 1/1 | 1/1 | 6.41 | 8.29 |
| 1/1 | 0/1 | 6.2 | 3.08 |
| 1/1 | 1/1 | 11.17 | 9.68 |
| 1/1 | 1/1 | 12.08 | 10.9 |
| 1/1 | 1/1 | 4.99 | 4.11 |
| 0/1 | 1/1 | 2.43 | 3.6 |
| 1/1 | 0/1 | 8.68 | 6.05 |
| 1/1 | 0/1 | 3.33 | 2.11 |
| 1/1 | 1/1 | 6.32 | 5.1 |
| 1/1 | 1/1 | 6.37 | 5.94 |
| 1/1 | 1/1 | 8.4 | 8.01 |
| 1/1 | 1/1 | 5.34 | 7.48 |
| 1/1 | 0/1 | 9.61 | 7.22 |
| 1/1 | 1/1 | 7.27 | 7 |
| 1/1 | 0/1 | 6.83 | 2.87 |
| 1/1 | 1/1 | 7.29 | 3.4 |
| 1/1 | 1/1 | 5.09 | 2.53 |
| 1/1 | 1/1 | 9.58 | 7.09 |
| 1/1 | 1/1 | 5.2 | 2.86 |
| 1/1 | 1/1 | 7.71 | 5.42 |
| 1/1 | 1/1 | 9.64 | 7.63 |
| 1/1 | 1/1 | 10.23 | 8.23 |
| 1/1 | 1/1 | 6.28 | 4.33 |
| 1/1 | 1/1 | 10.25 | 8.3 |
| 1/1 | 1/1 | 5.42 | 3.5 |
| 1/1 | 1/1 | 9.91 | 8.05 |
| 1/1 | 1/1 | 4.86 | 3.08 |
| 1/1 | 1/1 | 5.74 | 6.04 |
| 1/1 | 1/1 | 6.35 | 6.69 |
| 1/1 | 1/1 | 6.4 | 6.74 |
| 0/1 | 1/1 | 2.17 | 2.52 |
| 0/1 | 1/1 | 3.75 | 4.15 |
| 0/1 | 1/1 | 3.16 | 3.6 |
| 0/1 | 1/1 | 2.59 | 3.11 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.74 | 4.28 |
| 0/1 | 1/1 | 7.47 | 8.1 |
| 0/1 | 1/1 | 2.45 | 3.13 |
| 1/1 | 1/1 | 4.71 | 5.41 |
| 0/1 | 1/1 | 5.87 | 6.6 |
| 0/1 | 1/1 | 3.09 | 3.83 |
| 0/1 | 1/1 | 4.68 | 5.57 |
| 0/1 | 1/1 | 2.6 | 3.79 |
| 1/1 | 1/1 | 4.49 | 5.86 |
| 0/1 | 1/1 | 3.21 | 4.6 |
| 1/1 | 1/1 | 5.64 | 7.13 |
| 1/1 | 1/1 | 4.08 | 5.62 |
| 1/1 | 1/1 | 4.66 | 6.26 |
| 1/1 | 1/1 | 6.05 | 7.88 |
| 0/1 | 1/1 | 3.49 | 5.43 |
| 1/1 | 1/1 | 4.31 | 6.4 |
| 1/1 | 0/1 | 8.62 | 5.41 |
| 1/1 | 1/1 | 6.27 | 7.33 |
| 1/1 | 0/1 | 9.07 | 1.63 |
| 1/1 | 0/1 | 9.83 | 2.81 |
| 1/1 | 0/1 | 9.72 | 2.72 |
| 1/1 | 0/1 | 10.02 | 3.45 |
| 1/1 | 0/1 | 9.34 | 3.06 |
| 1/1 | 0/1 | 8.81 | 2.62 |
| 1/1 | 0/1 | 8.28 | 2.13 |
| 1/1 | 0/1 | 10.27 | 4.51 |
| 1/1 | 0/1 | 7.77 | 2.11 |
| 1/1 | 1/1 | 9.66 | 4.05 |
| 1/1 | 1/1 | 9.15 | 3.66 |
| 1/1 | 1/1 | 8.78 | 3.5 |
| 1/1 | 1/1 | 7.05 | 3.86 |
| 1/1 | 1/1 | 6.79 | 3.67 |
| 1/1 | 1/1 | 6.58 | 3.63 |
| 1/1 | 0/1 | 5.2 | 2.26 |
| 1/1 | 0/1 | 4.79 | 1.94 |
| 1/1 | 1/1 | 5.68 | 2.85 |
| 1/1 | 0/1 | 5.18 | 2.37 |
| 1/1 | 1/1 | 8.4 | 5.62 |
| 1/1 | 1/1 | 6.38 | 3.68 |
| 1/1 | 0/1 | 5.45 | 2.77 |
| 1/1 | 1/1 | 7.18 | 4.55 |
| 1/1 | 1/1 | 6.44 | 3.83 |
| 1/1 | 1/1 | 6.58 | 3.98 |
| 1/1 | 1/1 | 6.28 | 4.22 |
| 1/1 | 0/1 | 4.55 | 2.7 |
| 1/1 | 0/1 | 7.23 | 5.46 |
| 1/1 | 0/1 | 3.96 | 2.35 |
| 1/1 | 1/1 | 7.76 | 6.21 |
| 1/1 | 0/1 | 3.43 | 1.99 |
| 1/1 | 1/1 | 10.03 | 8.6 |
| 1/1 | 0/1 | 3.1 | 2.11 |
| 1/1 | 0/1 | 3.14 | 2.26 |
| 1/1 | 1/1 | 5.16 | 4.44 |
| 1/1 | 1/1 | 4.48 | 3.99 |
| 0/1 | 1/1 | 3.28 | 3.48 |
| 0/1 | 1/1 | 3.8 | 4.41 |
| 1/1 | 1/1 | 6.99 | 7.9 |
| 1/1 | 1/1 | 8.08 | 9.07 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 3.1 | 4.24 |
| 1/1 | 1/1 | 7 | 8.79 |
| 0/1 | 1/1 | 2.58 | 4.51 |
| 1/1 | 1/1 | 9.86 | 6.87 |
| 1/1 | 1/1 | 6.27 | 4.8 |
| 1/1 | 1/1 | 5.54 | 4.22 |
| 1/1 | 1/1 | 9.04 | 7.77 |
| 1/1 | 1/1 | 4.47 | 3.21 |
| 1/1 | 1/1 | 5.28 | 4.28 |
| 1/1 | 0/1 | 3.26 | 2.33 |
| 1/1 | 1/1 | 6.58 | 5.77 |
| 1/1 | 1/1 | 6.71 | 5.9 |
| 1/1 | 1/1 | 2.95 | 4.82 |
| 1/1 | 0/1 | 4.52 | 2.72 |
| 1/1 | 0/1 | 3.58 | 2.87 |
| 1/1 | 1/1 | 6.41 | 5.95 |
| 0/1 | 1/1 | 3.68 | 3.68 |
| 1/1 | 1/1 | 4.4 | 4.45 |
| 1/1 | 1/1 | 7.99 | 8.15 |
| 1/1 | 1/1 | 6.43 | 6.62 |
| 1/1 | 1/1 | 5.12 | 7.66 |
| 1/1 | 1/1 | 3.42 | 7.1 |
| 1/1 | 1/1 | 8.62 | 7.85 |
| 0/1 | 1/1 | 2.86 | 2.5 |
| 1/1 | 1/1 | 4.09 | 4.15 |
| 0/1 | 1/1 | 3.38 | 3.68 |
| 1/1 | 1/1 | 6.76 | 7.26 |
| 1/1 | 0/1 | 9.82 | 2.2 |
| 1/1 | 0/1 | 9.59 | 3.17 |
| 1/1 | 0/1 | 8.81 | 2.56 |
| 1/1 | 1/1 | 10.37 | 4.17 |
| 1/1 | 1/1 | 10.85 | 4.75 |
| 1/1 | 1/1 | 10.08 | 4.2 |
| 1/1 | 1/1 | 10.09 | 4.27 |
| 1/1 | 1/1 | 9.84 | 4.02 |
| 1/1 | 1/1 | 8.69 | 2.87 |
| 1/1 | 1/1 | 9.21 | 3.52 |
| 1/1 | 1/1 | 10.05 | 4.42 |
| 1/1 | 1/1 | 10.17 | 4.55 |
| 1/1 | 0/1 | 9.41 | 6.17 |
| 1/1 | 1/1 | 11.24 | 8.04 |
| 1/1 | 1/1 | 8.96 | 5.84 |
| 1/1 | 0/1 | 8.42 | 5.37 |
| 1/1 | 1/1 | 9.24 | 6.28 |
| 1/1 | 1/1 | 8.96 | 6.01 |
| 1/1 | 1/1 | 10.45 | 7.51 |
| 1/1 | 1/1 | 9.05 | 6.16 |
| 1/1 | 1/1 | 8.17 | 5.3 |
| 1/1 | 1/1 | 9.27 | 6.43 |
| 1/1 | 1/1 | 7.75 | 4.97 |
| 1/1 | 1/1 | 8.67 | 6.03 |
| 1/1 | 1/1 | 6.55 | 4.09 |
| 1/1 | 1/1 | 5.79 | 3.45 |
| 1/1 | 1/1 | 9.03 | 6.92 |
| 1/1 | 1/1 | 7.91 | 6.17 |
| 1/1 | 0/1 | 3.56 | 1.93 |
| 1/1 | 1/1 | 6.47 | 5.17 |
| 1/1 | 0/1 | 5.24 | 4.05 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 2.96 | 2 |
| 1/1 | 1/1 | 3.05 | 2.94 |
| 0/1 | 1/1 | 7.8 | 7.94 |
| 1/1 | 1/1 | 4.9 | 4.44 |
| 1/1 | 1/1 | 6.7 | 6.45 |
| 1/1 | 1/1 | 7 | 6.91 |
| 1/1 | 1/1 | 7.45 | 7.52 |
| 0/1 | 1/1 | 5.26 | 5.39 |
| 1/1 | 1/1 | 8.73 | 8.95 |
| 0/1 | 1/1 | 3.29 | 3.96 |
| 1/1 | 0/1 | 3.22 | 2.15 |
| 1/1 | 1/1 | 4.75 | 7.9 |
| 1/1 | 1/1 | 5.15 | 9.71 |
| 0/1 | 1/1 | 7.25 | 6.76 |
| 1/1 | 1/1 | 4.22 | 3.81 |
| 1/1 | 1/1 | 6.25 | 5.9 |
| 1/1 | 1/1 | 8.21 | 7.9 |
| 1/1 | 1/1 | 3.6 | 3.3 |
| 1/1 | 1/1 | 9 | 9.02 |
| 1/1 | 1/1 | 4.33 | 4.49 |
| 0/1 | 1/1 | 3.62 | 3.91 |
| 0/1 | 1/1 | 2.7 | 3.2 |
| 1/1 | 1/1 | 5.81 | 6.72 |
| 1/1 | 1/1 | 5.49 | 6.51 |
| 1/1 | 1/1 | 6.05 | 7.39 |
| 0/1 | 1/1 | 2.79 | 4.21 |
| 1/1 | 1/1 | 7.13 | 5.32 |
| 1/1 | 0/1 | 3.26 | 2.65 |
| 1/1 | 1/1 | 8.76 | 8.78 |
| 0/1 | 1/1 | 5.03 | 5.05 |
| 0/1 | 1/1 | 3.34 | 3.45 |
| 1/1 | 1/1 | 8.56 | 8.75 |
| 1/1 | 1/1 | 7.09 | 7.36 |
| 0/1 | 1/1 | 2.03 | 2.41 |
| 1/1 | 1/1 | 6.47 | 3.28 |
| 1/1 | 0/1 | 6.21 | 3.24 |
| 1/1 | 1/1 | 5.76 | 3.74 |
| 1/1 | 1/1 | 7.96 | 4.89 |
| 1/1 | 1/1 | 4.96 | 3.7 |
| 1/1 | 1/1 | 4.99 | 3.95 |
| 1/1 | 0/1 | 5.43 | 4.48 |
| 1/1 | 0/1 | 3.12 | 2.23 |
| 1/1 | 1/1 | 3.1 | 4.25 |
| 1/1 | 1/1 | 3.28 | 4.54 |
| 1/1 | 0/1 | 4.86 | 2.87 |
| 1/1 | 1/1 | 5.6 | 4.5 |
| 1/1 | 1/1 | 6.24 | 5.47 |
| 1/1 | 1/1 | 6.06 | 5.87 |
| 0/1 | 1/1 | 4.52 | 4.43 |
| 1/1 | 1/1 | 5.99 | 5.93 |
| 0/1 | 1/1 | 5.88 | 5.86 |
| 1/1 | 1/1 | 7.83 | 7.82 |
| 1/1 | 1/1 | 7.87 | 7.87 |
| 1/1 | 1/1 | 6.73 | 6.78 |
| 1/1 | 1/1 | 6.52 | 6.59 |
| 1/1 | 1/1 | 8.35 | 8.46 |
| 1/1 | 1/1 | 5.47 | 5.59 |
| 0/1 | 1/1 | 4.28 | 4.43 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.07 | 4.39 |
| 1/1 | 1/1 | 5.21 | 7.54 |
| 1/1 | 1/1 | 6.81 | 4.7 |
| 1/1 | 1/1 | 5.59 | 5.25 |
| 1/1 | 1/1 | 5.01 | 4.72 |
| 1/1 | 1/1 | 5.91 | 5.86 |
| 1/1 | 1/1 | 10.27 | 2.93 |
| 1/1 | 0/1 | 9.37 | 2.3 |
| 1/1 | 0/1 | 9.37 | 2.45 |
| 1/1 | 1/1 | 9.49 | 3.23 |
| 1/1 | 1/1 | 8.95 | 3.04 |
| 1/1 | 0/1 | 8.76 | 3.3 |
| 1/1 | 1/1 | 6.7 | 4.08 |
| 1/1 | 0/1 | 4.37 | 2.21 |
| 1/1 | 1/1 | 7.51 | 5.49 |
| 1/1 | 1/1 | 6.77 | 5.44 |
| 1/1 | 0/1 | 4.57 | 3.58 |
| 1/1 | 0/1 | 4.8 | 4.07 |
| 1/1 | 1/1 | 6.45 | 5.8 |
| 1/1 | 1/1 | 7.93 | 7.46 |
| 1/1 | 1/1 | 7.09 | 6.81 |
| 1/1 | 1/1 | 8.37 | 8.3 |
| 1/1 | 1/1 | 9.65 | 9.62 |
| 1/1 | 1/1 | 9.54 | 9.72 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 7.45 | 7.01 |
| 1/1 | 1/1 | 8.96 | 8.78 |
| 1/1 | 1/1 | 5.38 | 5.23 |
| 0/1 | 1/1 | 6.26 | 6.12 |
| 1/1 | 1/1 | 9.03 | 9 |
| 0/1 | 1/1 | 5.7 | 5.75 |
| 0/1 | 1/1 | 4.2 | 4.28 |
| 1/1 | 1/1 | 5.08 | 5.25 |
| 1/1 | 1/1 | 5.23 | 5.4 |
| 1/1 | 1/1 | 8.87 | 9.06 |
| 1/1 | 1/1 | 10.72 | 11.11 |
| 1/1 | 1/1 | 5.55 | 3.88 |
| 1/1 | 0/1 | 3.17 | 2.47 |
| 1/1 | 1/1 | 3.72 | 3.05 |
| 1/1 | 1/1 | 3.01 | 2.5 |
| 1/1 | 1/1 | 8.02 | 7.76 |
| 0/1 | 1/1 | 3.85 | 3.59 |
| 1/1 | 1/1 | 7.59 | 7.41 |
| 0/1 | 1/1 | 9.01 | 8.83 |
| 1/1 | 1/1 | 7.08 | 6.92 |
| 0/1 | 1/1 | 3.01 | 2.88 |
| 1/1 | 1/1 | 5.85 | 5.75 |
| 1/1 | 1/1 | 3.11 | 3.02 |
| 1/1 | 1/1 | 3.24 | 3.17 |
| 0/1 | 1/1 | 2.38 | 2.39 |
| 1/1 | 1/1 | 5.88 | 5.93 |
| 0/1 | 1/1 | 2.95 | 3.01 |
| 1/1 | 1/1 | 5.37 | 5.49 |
| 0/1 | 1/1 | 3.31 | 3.44 |
| 1/1 | 1/1 | 4.9 | 5.04 |
| 0/1 | 1/1 | 2.39 | 2.62 |
| 0/1 | 1/1 | 3.07 | 3.31 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 2.79 | 3.06 |
| 1/1 | 1/1 | 7.7 | 7.99 |
| 1/1 | 1/1 | 8.44 | 8.74 |
| 0/1 | 1/1 | 4.14 | 4.47 |
| 1/1 | 1/1 | 4.77 | 5.11 |
| 0/1 | 1/1 | 7.61 | 8.02 |
| 0/1 | 1/1 | 3.19 | 3.64 |
| 1/1 | 0/1 | 3.71 | 1.62 |
| 1/1 | 0/1 | 4.82 | 4.25 |
| 1/1 | 1/1 | 10.01 | 9.73 |
| 1/1 | 1/1 | 7.22 | 6.97 |
| 1/1 | 1/1 | 5.96 | 5.79 |
| 1/1 | 1/1 | 9.05 | 8.96 |
| 0/1 | 1/1 | 3.6 | 3.52 |
| 1/1 | 1/1 | 8.85 | 7.4 |
| 1/1 | 1/1 | 5.09 | 4.26 |
| 1/1 | 1/1 | 6.92 | 6.56 |
| 0/1 | 1/1 | 4.27 | 3.95 |
| 1/1 | 1/1 | 6.94 | 6.83 |
| 1/1 | 1/1 | 6.5 | 6.47 |
| 1/1 | 1/1 | 2.69 | 2.75 |
| 1/1 | 1/1 | 2.92 | 3.02 |
| 1/1 | 1/1 | 5.77 | 5.91 |
| 0/1 | 1/1 | 2.99 | 3.21 |
| 1/1 | 1/1 | 4.44 | 4.76 |
| 1/1 | 1/1 | 7.41 | 7.73 |
| 1/1 | 1/1 | 4.1 | 4.43 |
| 1/1 | 1/1 | 4.01 | 6.7 |
| 1/1 | 1/1 | 3.85 | 6.56 |
| 0/1 | 1/1 | 3.9 | 7.01 |
| 1/1 | 1/1 | 5.97 | 5.13 |
| 0/1 | 1/1 | 3.76 | 3.59 |
| 0/1 | 1/1 | 2.91 | 2.79 |
| 0/1 | 1/1 | 3.07 | 2.99 |
| 1/1 | 1/1 | 5.73 | 5.68 |
| 1/1 | 1/1 | 6.77 | 6.8 |
| 1/1 | 1/1 | 2.7 | 2.73 |
| 1/1 | 1/1 | 6.47 | 6.6 |
| 0/1 | 1/1 | 2.35 | 2.52 |
| 1/1 | 1/1 | 3.93 | 4.2 |
| 1/1 | 1/1 | 4.04 | 4.32 |
| 0/1 | 1/1 | 2.53 | 2.84 |
| 1/1 | 1/1 | 2.92 | 3.28 |
| 1/1 | 1/1 | 5.76 | 6.24 |
| 0/1 | 1/1 | 2.65 | 3.22 |
| 0/1 | 1/1 | 2.48 | 3.06 |
| 0/1 | 1/1 | 2.15 | 2.77 |
| 0/1 | 1/1 | 2.57 | 3.21 |
| 0/1 | 1/1 | 2.41 | 3.13 |
| 1/1 | 1/1 | 6.94 | 7.7 |
| 1/1 | 1/1 | 5.39 | 6.34 |
| 0/1 | 1/1 | 2.05 | 3.1 |
| 0/1 | 1/1 | 2.35 | 3.61 |
| 1/1 | 1/1 | 6.97 | 6.76 |
| 0/1 | 1/1 | 6.01 | 6.47 |
| 1/1 | 1/1 | 9.22 | 9.88 |
| 1/1 | 1/1 | 7.51 | 8.37 |
| 1/1 | 1/1 | 6.3 | 7.47 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 7.41 | 11.59 |
| 1/1 | 1/1 | 7.79 | 7.48 |
| 1/1 | 1/1 | 8.46 | 8.23 |
| 1/1 | 1/1 | 7.49 | 7.38 |
| 1/1 | 1/1 | 3.22 | 3.18 |
| 1/1 | 1/1 | 6.26 | 6.24 |
| 1/1 | 1/1 | 2.62 | 2.75 |
| 1/1 | 1/1 | 5.72 | 5.87 |
| 1/1 | 1/1 | 9.79 | 10 |
| 0/1 | 1/1 | 3.71 | 4.14 |
| 0/1 | 1/1 | 2.62 | 3.08 |
| 0/1 | 1/1 | 2.66 | 3.56 |
| 1/1 | 1/1 | 4.82 | 6.09 |
| 1/1 | 1/1 | 3.74 | 5.28 |
| 1/1 | 1/1 | 3.98 | 5.62 |
| 1/1 | 1/1 | 5.28 | 7.02 |
| 1/1 | 1/1 | 3.97 | 7.86 |
| 0/1 | 1/1 | 3.08 | 6.99 |
| 1/1 | 1/1 | 3.66 | 7.9 |
| 0/1 | 1/1 | 1.94 | 7.44 |
| 1/1 | 1/1 | 6.12 | 4.41 |
| 1/1 | 1/1 | 6.17 | 4.95 |
| 1/1 | 1/1 | 4.12 | 3.17 |
| 1/1 | 1/1 | 7.32 | 6.82 |
| 1/1 | 1/1 | 5.96 | 5.51 |
| 1/1 | 1/1 | 5.77 | 5.35 |
| 1/1 | 1/1 | 7.88 | 7.46 |
| 1/1 | 1/1 | 5.91 | 5.55 |
| 0/1 | 1/1 | 2.83 | 2.66 |
| 1/1 | 1/1 | 4.51 | 4.36 |
| 1/1 | 1/1 | 4.47 | 4.33 |
| 1/1 | 1/1 | 5.4 | 5.26 |
| 1/1 | 1/1 | 5.72 | 5.6 |
| 1/1 | 1/1 | 5.11 | 5.01 |
| 1/1 | 1/1 | 5.93 | 5.83 |
| 1/1 | 1/1 | 6.38 | 6.29 |
| 0/1 | 1/1 | 4.23 | 4.14 |
| 1/1 | 1/1 | 7.03 | 6.97 |
| 0/1 | 1/1 | 4.34 | 4.3 |
| 1/1 | 1/1 | 2.54 | 2.55 |
| 1/1 | 1/1 | 6.14 | 6.19 |
| 1/1 | 1/1 | 6.27 | 6.35 |
| 1/1 | 1/1 | 8.63 | 8.77 |
| 1/1 | 1/1 | 6.48 | 6.62 |
| 0/1 | 1/1 | 4.28 | 4.43 |
| 1/1 | 1/1 | 5.17 | 5.36 |
| 0/1 | 1/1 | 2.45 | 2.67 |
| 0/1 | 1/1 | 4.03 | 4.29 |
| 0/1 | 1/1 | 6.49 | 6.75 |
| 1/1 | 1/1 | 4.86 | 5.23 |
| 1/1 | 1/1 | 4.83 | 5.23 |
| 1/1 | 1/1 | 3.98 | 6.82 |
| 0/1 | 1/1 | 4.07 | 7.26 |
| 1/1 | 1/1 | 9.85 | 9.63 |
| 1/1 | 1/1 | 3.78 | 3.79 |
| 1/1 | 1/1 | 7.53 | 7.72 |
| 1/1 | 1/1 | 5.36 | 5.59 |
| 0/1 | 1/1 | 5.48 | 5.76 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.44 | 7.8 |
| 0/1 | 1/1 | 2.47 | 2.83 |
| 0/1 | 1/1 | 2.21 | 2.62 |
| 0/1 | 1/1 | 2.69 | 3.14 |
| 1/1 | 1/1 | 8.78 | 9.24 |
| 0/1 | 1/1 | 2.07 | 2.53 |
| 0/1 | 1/1 | 4.04 | 4.54 |
| 1/1 | 1/1 | 5.55 | 6.3 |
| 1/1 | 1/1 | 6.18 | 7.08 |
| 0/1 | 1/1 | 1.97 | 3.44 |
| 0/1 | 1/1 | 4.3 | 6.07 |
| 0/1 | 1/1 | 2.79 | 4.65 |
| 0/1 | 1/1 | 1.83 | 3.71 |
| 1/1 | 1/1 | 3.08 | 7.27 |
| 1/1 | 1/1 | 3.56 | 7.88 |
| 0/1 | 1/1 | 2.61 | 7.24 |
| 1/1 | 1/1 | 6.53 | 5.77 |
| 1/1 | 1/1 | 3.31 | 2.82 |
| 1/1 | 1/1 | 8.85 | 9.07 |
| 1/1 | 1/1 | 6.93 | 7.53 |
| 1/1 | 1/1 | 6.3 | 7.01 |
| 0/1 | 1/1 | 2.69 | 3.79 |
| 1/1 | 1/1 | 4.81 | 8.6 |
| 1/1 | 1/1 | 4.41 | 8.45 |
| 1/1 | 1/1 | 6.28 | 5.77 |
| 1/1 | 1/1 | 6.83 | 6.42 |
| 0/1 | 1/1 | 6.23 | 5.87 |
| 1/1 | 1/1 | 4.86 | 5.28 |
| 1/1 | 1/1 | 6.69 | 7.24 |
| 0/1 | 1/1 | 7.43 | 7.98 |
| 1/1 | 1/1 | 7.53 | 8.22 |
| 1/1 | 1/1 | 5.11 | 5.89 |
| 0/1 | 1/1 | 2.4 | 3.38 |
| 0/1 | 1/1 | 7.71 | 8.71 |
| 1/1 | 1/1 | 4.14 | 5.33 |
| 0/1 | 1/1 | 5.37 | 6.6 |
| 1/1 | 1/1 | 5.23 | 6.49 |
| 0/1 | 1/1 | 5.8 | 7.33 |
| 1/1 | 1/1 | 10.41 | 7.12 |
| 1/1 | 1/1 | 6.56 | 4.79 |
| 1/1 | 0/1 | 5.06 | 3.33 |
| 1/1 | 1/1 | 5.73 | 4.17 |
| 0/1 | 1/1 | 2.72 | 4.24 |
| 1/1 | 1/1 | 5.7 | 5.42 |
| 1/1 | 1/1 | 10.72 | 10.47 |
| 0/1 | 1/1 | 2.64 | 2.56 |
| 0/1 | 1/1 | 4.78 | 4.72 |
| 1/1 | 1/1 | 3.2 | 3.28 |
| 0/1 | 1/1 | 3.78 | 3.9 |
| 0/1 | 1/1 | 2.11 | 2.3 |
| 0/1 | 1/1 | 3.53 | 3.74 |
| 1/1 | 1/1 | 4.79 | 5.33 |
| 0/1 | 1/1 | 2.68 | 3.33 |
| 1/1 | 1/1 | 6.41 | 7.3 |
| 0/1 | 1/1 | 4.24 | 5.69 |
| 1/1 | 1/1 | 7.55 | 9.12 |
| 1/1 | 1/1 | 6.71 | 8.3 |
| 1/1 | 1/1 | 3.4 | 5.03 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.49 | 7.45 |
| 0/1 | 1/1 | 3.49 | 7.45 |
| 0/1 | 1/1 | 3.01 | 6.99 |
| 1/1 | 1/1 | 8.15 | 5.11 |
| 1/1 | 1/1 | 8.72 | 7.41 |
| 1/1 | 1/1 | 10.56 | 9.48 |
| 1/1 | 1/1 | 4.84 | 3.8 |
| 1/1 | 1/1 | 5 | 6.2 |
| 1/1 | 1/1 | 4.91 | 6.29 |
| 1/1 | 0/1 | 5.52 | 2.92 |
| 1/1 | 1/1 | 7.06 | 4.84 |
| 1/1 | 1/1 | 6.38 | 5.26 |
| 1/1 | 1/1 | 7.46 | 6.88 |
| 1/1 | 1/1 | 9.73 | 7.44 |
| 1/1 | 1/1 | 5.7 | 5.45 |
| 0/1 | 1/1 | 2.87 | 4.88 |
| 1/1 | 1/1 | 3.52 | 5.75 |
| 0/1 | 1/1 | 3.96 | 6.82 |
| 0/1 | 1/1 | 3.04 | 6.03 |
| 1/1 | 0/1 | 3.1 | 2.46 |
| 1/1 | 1/1 | 7.38 | 7.28 |
| 1/1 | 1/1 | 9.64 | 10.08 |
| 0/1 | 1/1 | 1.88 | 2.51 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 9.37 | 8.38 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 7.45 | 7.01 |
| 1/1 | 1/1 | 8.96 | 8.78 |
| 1/1 | 1/1 | 5.38 | 5.23 |
| 0/1 | 1/1 | 6.26 | 6.12 |
| 1/1 | 1/1 | 9.03 | 9 |
| 1/1 | 1/1 | 6.47 | 6.44 |
| 0/1 | 1/1 | 5.7 | 5.75 |
| 0/1 | 1/1 | 4.2 | 4.28 |
| 1/1 | 1/1 | 5.08 | 5.25 |
| 1/1 | 1/1 | 5.23 | 5.4 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 0/1 | 5.76 | 4.59 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 9.41 | 9.05 |
| 1/1 | 1/1 | 5.38 | 5.23 |
| 0/1 | 1/1 | 4.12 | 4.23 |
| 0/1 | 1/1 | 6 | 6.26 |
| 0/1 | 1/1 | 5.82 | 6.13 |
| 1/1 | 1/1 | 7.27 | 5.25 |
| 1/1 | 0/1 | 3.92 | 3.18 |
| 1/1 | 1/1 | 2.87 | 2.68 |
| 1/1 | 1/1 | 2.56 | 2.45 |
| 1/1 | 1/1 | 5.23 | 5.12 |
| 0/1 | 1/1 | 2.68 | 2.59 |
| 0/1 | 1/1 | 3.12 | 3.14 |
| 1/1 | 1/1 | 10.69 | 9.91 |
| 0/1 | 1/1 | 3.89 | 3.89 |
| 0/1 | 1/1 | 5.62 | 5.75 |
| 1/1 | 0/1 | 3.57 | 2.35 |
| 1/1 | 1/1 | 5.54 | 4.61 |
| 1/1 | 1/1 | 6.17 | 5.93 |
| 0/1 | 1/1 | 4.8 | 4.72 |

| | | | |
|-----|-----|------|-------|
| 0/1 | 1/1 | 3.1 | 3.21 |
| 1/1 | 1/1 | 6.56 | 6.68 |
| 1/1 | 1/1 | 6.67 | 6.9 |
| 1/1 | 1/1 | 5.39 | 5.67 |
| 0/1 | 1/1 | 2.64 | 2.93 |
| 0/1 | 1/1 | 2.93 | 3.47 |
| 1/1 | 1/1 | 5.49 | 6.14 |
| 1/1 | 1/1 | 5.89 | 8.76 |
| 0/1 | 1/1 | 5.23 | 8.13 |
| 1/1 | 1/1 | 6.37 | 9.35 |
| 1/1 | 1/1 | 7.6 | 10.61 |
| 1/1 | 1/1 | 4.2 | 7.28 |
| 1/1 | 1/1 | 4.47 | 7.56 |
| 1/1 | 1/1 | 4.55 | 7.87 |
| 1/1 | 1/1 | 3.37 | 7.16 |
| 1/1 | 1/1 | 5.12 | 8.96 |
| 0/1 | 1/1 | 2.27 | 6.3 |
| 1/1 | 0/1 | 4.09 | 2.67 |
| 1/1 | 1/1 | 6.67 | 5.99 |
| 0/1 | 1/1 | 3.97 | 3.6 |
| 1/1 | 1/1 | 6.99 | 6.72 |
| 1/1 | 1/1 | 7.17 | 7.08 |
| 1/1 | 0/1 | 3.41 | 3.35 |
| 0/1 | 1/1 | 3.83 | 3.78 |
| 1/1 | 1/1 | 4.12 | 4.08 |
| 1/1 | 1/1 | 11.4 | 11.4 |
| 1/1 | 1/1 | 6.67 | 6.73 |
| 1/1 | 1/1 | 5.64 | 5.85 |
| 0/1 | 1/1 | 4.24 | 4.45 |
| 0/1 | 1/1 | 4.44 | 4.69 |
| 0/1 | 1/1 | 5.25 | 5.55 |
| 1/1 | 1/1 | 7.13 | 7.45 |
| 1/1 | 1/1 | 6.33 | 6.66 |
| 0/1 | 1/1 | 3.6 | 3.96 |
| 1/1 | 1/1 | 6.46 | 6.94 |
| 1/1 | 1/1 | 5.01 | 5.5 |
| 1/1 | 0/1 | 7.18 | 3.94 |
| 1/1 | 1/1 | 8.31 | 7.01 |
| 0/1 | 1/1 | 4.23 | 5.25 |
| 1/1 | 1/1 | 5.21 | 7.16 |
| 1/1 | 0/1 | 4.39 | 2.41 |
| 1/1 | 0/1 | 3.21 | 2.16 |
| 1/1 | 1/1 | 6.25 | 5.54 |
| 1/1 | 1/1 | 6.48 | 6.04 |
| 1/1 | 1/1 | 8.27 | 7.88 |
| 0/1 | 1/1 | 7.87 | 7.65 |
| 1/1 | 1/1 | 9.51 | 9.31 |
| 0/1 | 1/1 | 5.4 | 5.21 |
| 1/1 | 1/1 | 8.4 | 8.24 |
| 1/1 | 1/1 | 9.86 | 9.76 |
| 1/1 | 1/1 | 6.37 | 6.32 |
| 1/1 | 1/1 | 7.18 | 7.17 |
| 0/1 | 1/1 | 3.22 | 5.79 |
| 0/1 | 1/1 | 3.14 | 5.8 |
| 0/1 | 1/1 | 2.39 | 5.58 |
| 1/1 | 0/1 | 4.69 | 3.56 |
| 1/1 | 1/1 | 7.55 | 6.8 |
| 1/1 | 1/1 | 3.05 | 2.79 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.54 | 2.31 |
| 0/1 | 1/1 | 2.6 | 2.58 |
| 1/1 | 1/1 | 2.63 | 2.63 |
| 0/1 | 1/1 | 2.19 | 2.2 |
| 1/1 | 1/1 | 5.36 | 5.48 |
| 1/1 | 1/1 | 4.66 | 4.81 |
| 1/1 | 1/1 | 3.51 | 3.95 |
| 0/1 | 1/1 | 2.84 | 3.48 |
| 1/1 | 1/1 | 3.76 | 4.67 |
| 0/1 | 1/1 | 3.36 | 6.72 |
| 1/1 | 0/1 | 7.12 | 2.94 |
| 1/1 | 0/1 | 6.71 | 3.94 |
| 1/1 | 1/1 | 6.74 | 4.35 |
| 0/1 | 1/1 | 3.24 | 3.16 |
| 1/1 | 1/1 | 6.26 | 6.3 |
| 1/1 | 1/1 | 11.76 | 11.82 |
| 1/1 | 0/1 | 3.08 | 2.61 |
| 1/1 | 1/1 | 2.75 | 2.61 |
| 1/1 | 1/1 | 10.51 | 10.46 |
| 0/1 | 1/1 | 2.75 | 2.89 |
| 1/1 | 1/1 | 8.52 | 8.79 |
| 1/1 | 1/1 | 2.66 | 3.16 |
| 0/1 | 1/1 | 2.62 | 3.18 |
| 0/1 | 1/1 | 2.26 | 3 |
| 0/1 | 1/1 | 3.06 | 4.38 |
| 1/1 | 1/1 | 7.76 | 9.17 |
| 1/1 | 1/1 | 5.02 | 8.77 |
| 1/1 | 1/1 | 4.47 | 3.82 |
| 1/1 | 1/1 | 6.4 | 6.2 |
| 1/1 | 1/1 | 4.78 | 4.76 |
| 0/1 | 1/1 | 3.79 | 3.82 |
| 0/1 | 1/1 | 2 | 2.05 |
| 1/1 | 1/1 | 5.83 | 5.89 |
| 0/1 | 1/1 | 5.57 | 5.86 |
| 1/1 | 1/1 | 3.33 | 3.66 |
| 0/1 | 1/1 | 3.52 | 3.91 |
| 1/1 | 1/1 | 6.39 | 6.88 |
| 1/1 | 1/1 | 2.99 | 3.97 |
| 0/1 | 1/1 | 2.82 | 6.66 |
| 1/1 | 1/1 | 5.37 | 3.7 |
| 1/1 | 0/1 | 4.16 | 3.62 |
| 1/1 | 1/1 | 8.12 | 7.77 |
| 1/1 | 1/1 | 5.1 | 5.11 |
| 1/1 | 1/1 | 10.97 | 11.01 |
| 1/1 | 1/1 | 6.47 | 6.59 |
| 1/1 | 1/1 | 5.87 | 6.01 |
| 1/1 | 1/1 | 6.04 | 6.22 |
| 1/1 | 1/1 | 7.57 | 7.84 |
| 1/1 | 1/1 | 9.02 | 9.34 |
| 1/1 | 1/1 | 8.2 | 8.57 |
| 1/1 | 1/1 | 4.5 | 7.5 |
| 1/1 | 1/1 | 3.13 | 7.3 |
| 1/1 | 0/1 | 5.57 | 4.22 |
| 1/1 | 1/1 | 4.09 | 4.04 |
| 1/1 | 1/1 | 10.34 | 10.3 |
| 1/1 | 1/1 | 6.38 | 6.38 |
| 1/1 | 1/1 | 8.71 | 9.24 |
| 1/1 | 1/1 | 7.01 | 9.74 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.27 | 10.4 |
| 0/1 | 1/1 | 5.25 | 8.5 |
| 1/1 | 1/1 | 7.84 | 7.62 |
| 1/1 | 1/1 | 12.64 | 12.72 |
| 1/1 | 1/1 | 8.35 | 8.62 |
| 1/1 | 1/1 | 8.08 | 8.36 |
| 0/1 | 1/1 | 2 | 2.38 |
| 1/1 | 1/1 | 9.62 | 10 |
| 1/1 | 1/1 | 9.62 | 10 |
| 1/1 | 1/1 | 3.42 | 3.81 |
| 1/1 | 1/1 | 5.1 | 6.23 |
| 0/1 | 1/1 | 4.22 | 5.36 |
| 1/1 | 1/1 | 5.67 | 7.26 |
| 1/1 | 1/1 | 8.25 | 9.9 |
| 1/1 | 1/1 | 3.93 | 5.64 |
| 1/1 | 1/1 | 4.53 | 6.26 |
| 1/1 | 1/1 | 3.75 | 3.7 |
| 1/1 | 1/1 | 5.71 | 5.86 |
| 0/1 | 1/1 | 6.08 | 6.46 |
| 0/1 | 1/1 | 5.49 | 5.92 |
| 1/1 | 1/1 | 5.25 | 5.72 |
| 1/1 | 1/1 | 4.49 | 5.7 |
| 1/1 | 1/1 | 7.05 | 5.09 |
| 1/1 | 1/1 | 4.46 | 4.04 |
| 1/1 | 1/1 | 6.68 | 6.28 |
| 1/1 | 1/1 | 8.25 | 8 |
| 1/1 | 1/1 | 6.32 | 6.26 |
| 1/1 | 1/1 | 6.21 | 6.23 |
| 1/1 | 1/1 | 7.75 | 4.87 |
| 1/1 | 1/1 | 5.99 | 4.63 |
| 1/1 | 1/1 | 7.08 | 6.1 |
| 1/1 | 1/1 | 5.11 | 3.96 |
| 1/1 | 1/1 | 7.34 | 6.83 |
| 1/1 | 1/1 | 6.44 | 5.96 |
| 1/1 | 0/1 | 6.86 | 6.39 |
| 1/1 | 1/1 | 8.09 | 7.95 |
| 1/1 | 1/1 | 5.21 | 5.09 |
| 0/1 | 1/1 | 6.52 | 6.47 |
| 1/1 | 1/1 | 6.7 | 6.67 |
| 0/1 | 1/1 | 6.73 | 6.74 |
| 1/1 | 1/1 | 3.6 | 3.68 |
| 0/1 | 1/1 | 3.8 | 3.91 |
| 0/1 | 1/1 | 3.97 | 4.09 |
| 1/1 | 1/1 | 8.76 | 8.88 |
| 1/1 | 1/1 | 7.94 | 8.08 |
| 1/1 | 1/1 | 6.02 | 6.17 |
| 1/1 | 1/1 | 4.03 | 4.3 |
| 1/1 | 1/1 | 5.5 | 5.84 |
| 1/1 | 1/1 | 7.52 | 8.08 |
| 1/1 | 1/1 | 8.43 | 9.01 |
| 1/1 | 1/1 | 7.24 | 7.83 |
| 1/1 | 1/1 | 6.37 | 7.03 |
| 1/1 | 1/1 | 5.67 | 6.47 |
| 1/1 | 1/1 | 6.43 | 7.27 |
| 1/1 | 1/1 | 4.88 | 7.74 |
| 1/1 | 1/1 | 4.5 | 7.38 |
| 1/1 | 1/1 | 4.94 | 8.05 |
| 1/1 | 1/1 | 4.23 | 7.55 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 6.77 | 5.69 |
| 1/1 | 1/1 | 6.76 | 6.2 |
| 1/1 | 1/1 | 6.21 | 5.83 |
| 1/1 | 1/1 | 5.11 | 4.73 |
| 1/1 | 1/1 | 6.58 | 6.28 |
| 1/1 | 1/1 | 3.63 | 3.52 |
| 1/1 | 1/1 | 5.79 | 5.76 |
| 1/1 | 1/1 | 5.04 | 5.15 |
| 0/1 | 1/1 | 3.09 | 3.27 |
| 1/1 | 1/1 | 3.76 | 4 |
| 1/1 | 1/1 | 4.21 | 4.55 |
| 1/1 | 1/1 | 3.39 | 3.84 |
| 1/1 | 1/1 | 7.91 | 8.41 |
| 1/1 | 1/1 | 4.81 | 5.39 |
| 1/1 | 1/1 | 5.69 | 6.34 |
| 1/1 | 1/1 | 6.48 | 7.27 |
| 1/1 | 1/1 | 4.1 | 7.36 |
| 1/1 | 1/1 | 5.11 | 4.64 |
| 1/1 | 1/1 | 5.69 | 5.63 |
| 1/1 | 1/1 | 8.85 | 9.86 |
| 1/1 | 1/1 | 7.77 | 9.08 |
| 0/1 | 1/1 | 2.96 | 4.28 |
| 1/1 | 1/1 | 4.32 | 7.88 |
| 0/1 | 1/1 | 4.75 | 8.39 |
| 1/1 | 1/1 | 5.38 | 9.65 |
| 1/1 | 1/1 | 8.49 | 7.39 |
| 1/1 | 0/1 | 4.27 | 3.38 |
| 1/1 | 1/1 | 5.32 | 4.79 |
| 1/1 | 1/1 | 7.09 | 6.68 |
| 1/1 | 1/1 | 6.67 | 6.43 |
| 1/1 | 1/1 | 6.5 | 6.3 |
| 1/1 | 1/1 | 6.57 | 6.38 |
| 1/1 | 1/1 | 7.36 | 7.19 |
| 0/1 | 1/1 | 4.68 | 4.67 |
| 1/1 | 1/1 | 6.98 | 7.1 |
| 1/1 | 1/1 | 6.24 | 6.4 |
| 1/1 | 1/1 | 5.49 | 5.83 |
| 1/1 | 1/1 | 6.24 | 6.72 |
| 1/1 | 1/1 | 4.4 | 4.9 |
| 1/1 | 1/1 | 5.45 | 6.1 |
| 1/1 | 1/1 | 5.36 | 6.13 |
| 0/1 | 1/1 | 2.98 | 3.74 |
| 1/1 | 1/1 | 6.26 | 7.05 |
| 1/1 | 1/1 | 6.39 | 9.45 |
| 1/1 | 0/1 | 6.12 | 2.26 |
| 1/1 | 0/1 | 6.43 | 3.21 |
| 1/1 | 1/1 | 7.09 | 4.15 |
| 1/1 | 0/1 | 7.51 | 4.91 |
| 1/1 | 1/1 | 6.45 | 4.11 |
| 1/1 | 1/1 | 6.13 | 7.04 |
| 1/1 | 0/1 | 5.93 | 3.3 |
| 1/1 | 0/1 | 3.56 | 2.39 |
| 1/1 | 1/1 | 10.4 | 9.24 |
| 1/1 | 1/1 | 5.88 | 4.82 |
| 1/1 | 0/1 | 4.87 | 3.96 |
| 1/1 | 1/1 | 6.34 | 5.51 |
| 0/1 | 1/1 | 2.46 | 4.05 |
| 1/1 | 1/1 | 3 | 4.91 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.98 | 7.21 |
| 1/1 | 1/1 | 6.78 | 6.34 |
| 1/1 | 1/1 | 11.03 | 10.67 |
| 1/1 | 1/1 | 5.89 | 5.81 |
| 1/1 | 1/1 | 9.2 | 9.2 |
| 1/1 | 1/1 | 5.51 | 5.65 |
| 0/1 | 1/1 | 6.24 | 6.42 |
| 1/1 | 1/1 | 6.31 | 6.69 |
| 0/1 | 1/1 | 5.07 | 5.48 |
| 1/1 | 1/1 | 10.46 | 10.89 |
| 0/1 | 1/1 | 5.94 | 6.37 |
| 0/1 | 1/1 | 6.35 | 6.89 |
| 1/1 | 1/1 | 7.87 | 8.48 |
| 1/1 | 1/1 | 6.05 | 6.71 |
| 1/1 | 1/1 | 6.53 | 7.26 |
| 0/1 | 1/1 | 3.64 | 4.39 |
| 0/1 | 1/1 | 2.29 | 3.32 |
| 0/1 | 1/1 | 2.4 | 5.68 |
| 1/1 | 1/1 | 4.94 | 8.23 |
| 0/1 | 1/1 | 2.72 | 6.26 |
| 1/1 | 1/1 | 5.72 | 9.29 |
| 1/1 | 1/1 | 4.42 | 7.99 |
| 1/1 | 1/1 | 6.03 | 9.75 |
| 1/1 | 1/1 | 5.36 | 9.21 |
| 0/1 | 1/1 | 4.99 | 8.98 |
| 0/1 | 1/1 | 3.28 | 7.75 |
| 1/1 | 1/1 | 7.13 | 6.81 |
| 0/1 | 1/1 | 3.48 | 3.52 |
| 0/1 | 1/1 | 2.25 | 2.34 |
| 0/1 | 1/1 | 3.41 | 3.59 |
| 1/1 | 1/1 | 5.16 | 5.35 |
| 0/1 | 1/1 | 3.61 | 3.85 |
| 0/1 | 1/1 | 3.1 | 3.4 |
| 1/1 | 1/1 | 6.64 | 6.97 |
| 1/1 | 1/1 | 5.6 | 6.11 |
| 1/1 | 1/1 | 4.48 | 5.01 |
| 0/1 | 1/1 | 3.45 | 4.02 |
| 1/1 | 1/1 | 4.07 | 5.08 |
| 1/1 | 1/1 | 6.13 | 7.32 |
| 1/1 | 1/1 | 5.03 | 8.71 |
| 1/1 | 1/1 | 10.02 | 7.3 |
| 1/1 | 1/1 | 7.23 | 5.26 |
| 1/1 | 1/1 | 5.3 | 4.53 |
| 0/1 | 1/1 | 3.55 | 4.91 |
| 1/1 | 1/1 | 5.02 | 6.58 |
| 1/1 | 1/1 | 12.17 | 9.55 |
| 0/1 | 1/1 | 3.78 | 5.2 |
| 1/1 | 1/1 | 6.3 | 7.98 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 10.77 | 10.54 |
| 1/1 | 1/1 | 4.16 | 3.93 |
| 1/1 | 1/1 | 5.99 | 5.83 |
| 1/1 | 1/1 | 9.38 | 9.33 |
| 1/1 | 1/1 | 4.55 | 4.72 |
| 1/1 | 1/1 | 7.11 | 9.99 |
| 1/1 | 0/1 | 5.15 | 4.2 |
| 1/1 | 1/1 | 6.16 | 6.12 |
| 1/1 | 1/1 | 3.45 | 3.59 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 12.05 | 12.22 |
| 0/1 | 1/1 | 2.98 | 3.16 |
| 0/1 | 1/1 | 2.94 | 3.39 |
| 0/1 | 1/1 | 2.61 | 3.25 |
| 1/1 | 1/1 | 7.51 | 8.37 |
| 1/1 | 1/1 | 4.65 | 5.62 |
| 1/1 | 1/1 | 8.53 | 7.83 |
| 1/1 | 1/1 | 9.66 | 9.6 |
| 1/1 | 1/1 | 9.35 | 9.3 |
| 1/1 | 1/1 | 9.82 | 9.8 |
| 1/1 | 1/1 | 10.19 | 10.2 |
| 0/1 | 1/1 | 7.63 | 7.76 |
| 1/1 | 1/1 | 7.59 | 7.73 |
| 1/1 | 1/1 | 7.3 | 7.6 |
| 1/1 | 1/1 | 9.86 | 10.19 |
| 1/1 | 1/1 | 4.16 | 4.52 |
| 1/1 | 1/1 | 9.16 | 9.56 |
| 1/1 | 1/1 | 7.64 | 8.08 |
| 1/1 | 1/1 | 5.81 | 6.28 |
| 1/1 | 1/1 | 9.15 | 9.64 |
| 0/1 | 1/1 | 6.81 | 7.31 |
| 1/1 | 1/1 | 5.28 | 5.94 |
| 0/1 | 1/1 | 3.3 | 3.96 |
| 1/1 | 1/1 | 6.48 | 7.34 |
| 1/1 | 1/1 | 7.24 | 8.26 |
| 1/1 | 1/1 | 7.9 | 8.98 |
| 0/1 | 1/1 | 5.92 | 9.25 |
| 1/1 | 1/1 | 5.64 | 9 |
| 0/1 | 1/1 | 5.58 | 9.06 |
| 0/1 | 1/1 | 2.64 | 6.45 |
| 0/1 | 1/1 | 4.47 | 8.51 |
| 1/1 | 1/1 | 3.44 | 7.73 |
| 1/1 | 0/1 | 4.96 | 2.59 |
| 1/1 | 1/1 | 4.7 | 3.22 |
| 1/1 | 1/1 | 5.72 | 4.37 |
| 1/1 | 1/1 | 8.71 | 7.87 |
| 1/1 | 1/1 | 6.3 | 5.77 |
| 1/1 | 0/1 | 4.09 | 3.61 |
| 1/1 | 1/1 | 5.3 | 4.84 |
| 1/1 | 1/1 | 5.65 | 5.22 |
| 1/1 | 1/1 | 8.36 | 7.94 |
| 1/1 | 0/1 | 9.3 | 4 |
| 1/1 | 0/1 | 8.24 | 3.14 |
| 1/1 | 0/1 | 8.28 | 3.89 |
| 1/1 | 0/1 | 8.35 | 3.97 |
| 1/1 | 0/1 | 9.08 | 4.84 |
| 1/1 | 0/1 | 6.37 | 2.21 |
| 1/1 | 0/1 | 8.18 | 4.2 |
| 1/1 | 1/1 | 8.51 | 4.6 |
| 1/1 | 0/1 | 8.72 | 4.89 |
| 1/1 | 0/1 | 7.35 | 3.72 |
| 1/1 | 1/1 | 8.4 | 4.84 |
| 1/1 | 0/1 | 5.81 | 2.3 |
| 1/1 | 0/1 | 6.48 | 3.01 |
| 1/1 | 0/1 | 6.3 | 2.92 |
| 1/1 | 1/1 | 4.63 | 3.31 |
| 1/1 | 0/1 | 4.5 | 3.39 |
| 1/1 | 1/1 | 7.79 | 6.7 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.9 | 4.82 |
| 1/1 | 0/1 | 4.08 | 3.02 |
| 1/1 | 0/1 | 2.95 | 1.88 |
| 1/1 | 1/1 | 7.1 | 6.13 |
| 1/1 | 1/1 | 6.69 | 5.77 |
| 1/1 | 0/1 | 4.58 | 3.67 |
| 1/1 | 1/1 | 5.68 | 4.77 |
| 1/1 | 0/1 | 4.07 | 3.19 |
| 1/1 | 1/1 | 6.8 | 5.92 |
| 1/1 | 1/1 | 7.87 | 7.01 |
| 1/1 | 0/1 | 8.39 | 7.56 |
| 1/1 | 1/1 | 5.98 | 5.16 |
| 1/1 | 1/1 | 5.81 | 5.02 |
| 1/1 | 0/1 | 5.78 | 5.01 |
| 1/1 | 1/1 | 6.76 | 6 |
| 1/1 | 0/1 | 3.61 | 2.85 |
| 1/1 | 1/1 | 11.7 | 10.99 |
| 1/1 | 1/1 | 6.61 | 5.92 |
| 1/1 | 0/1 | 3.8 | 3.14 |
| 1/1 | 1/1 | 8.11 | 7.6 |
| 1/1 | 1/1 | 5.92 | 5.47 |
| 1/1 | 1/1 | 7.37 | 6.94 |
| 1/1 | 1/1 | 7.46 | 7.04 |
| 1/1 | 1/1 | 6.51 | 6.11 |
| 1/1 | 0/1 | 3.12 | 2.72 |
| 1/1 | 1/1 | 6.63 | 6.25 |
| 1/1 | 1/1 | 5.45 | 5.1 |
| 1/1 | 1/1 | 6.68 | 6.35 |
| 1/1 | 1/1 | 6.42 | 6.14 |
| 1/1 | 1/1 | 7.37 | 7.1 |
| 1/1 | 1/1 | 8.29 | 8.02 |
| 1/1 | 1/1 | 7.01 | 6.76 |
| 1/1 | 1/1 | 6.3 | 6.05 |
| 1/1 | 1/1 | 6.67 | 6.43 |
| 1/1 | 1/1 | 7.53 | 7.3 |
| 1/1 | 1/1 | 6.48 | 6.27 |
| 1/1 | 1/1 | 6.74 | 6.55 |
| 1/1 | 1/1 | 5.91 | 5.73 |
| 1/1 | 1/1 | 4.99 | 4.85 |
| 1/1 | 1/1 | 7.23 | 7.13 |
| 1/1 | 1/1 | 3.22 | 3.2 |
| 0/1 | 1/1 | 6.66 | 6.71 |
| 1/1 | 1/1 | 10.32 | 10.39 |
| 0/1 | 1/1 | 5.51 | 5.63 |
| 1/1 | 1/1 | 7.59 | 7.74 |
| 1/1 | 1/1 | 6.47 | 6.71 |
| 1/1 | 1/1 | 3.38 | 3.7 |
| 1/1 | 1/1 | 5.84 | 6.2 |
| 0/1 | 1/1 | 2.54 | 2.97 |
| 0/1 | 1/1 | 3.52 | 3.97 |
| 1/1 | 1/1 | 4.76 | 5.21 |
| 0/1 | 1/1 | 2.21 | 2.8 |
| 0/1 | 1/1 | 3.14 | 3.8 |
| 1/1 | 1/1 | 7.55 | 2.49 |
| 1/1 | 1/1 | 7.54 | 3.16 |
| 1/1 | 0/1 | 6.94 | 3 |
| 1/1 | 0/1 | 6.21 | 2.62 |
| 1/1 | 0/1 | 6.75 | 3.25 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 5.93 | 2.56 |
| 1/1 | 1/1 | 6.63 | 3.34 |
| 1/1 | 1/1 | 7.27 | 4.11 |
| 1/1 | 0/1 | 5.44 | 2.34 |
| 1/1 | 1/1 | 5.39 | 4.38 |
| 1/1 | 1/1 | 8.02 | 7.03 |
| 1/1 | 1/1 | 6.44 | 5.47 |
| 1/1 | 0/1 | 4.32 | 3.35 |
| 1/1 | 1/1 | 4.21 | 3.33 |
| 1/1 | 1/1 | 5.91 | 5.07 |
| 1/1 | 1/1 | 4.43 | 3.65 |
| 1/1 | 0/1 | 2.61 | 1.9 |
| 1/1 | 1/1 | 6.23 | 5.57 |
| 1/1 | 1/1 | 6.65 | 6.12 |
| 1/1 | 1/1 | 9 | 8.56 |
| 1/1 | 0/1 | 2.62 | 2.18 |
| 1/1 | 1/1 | 8.38 | 8.06 |
| 1/1 | 1/1 | 8.26 | 7.97 |
| 1/1 | 1/1 | 5.05 | 4.81 |
| 1/1 | 1/1 | 7.79 | 7.59 |
| 1/1 | 1/1 | 7.52 | 7.34 |
| 1/1 | 0/1 | 3.45 | 3.27 |
| 1/1 | 1/1 | 10.65 | 10.55 |
| 1/1 | 1/1 | 10.15 | 10.07 |
| 1/1 | 1/1 | 6.59 | 6.51 |
| 0/1 | 1/1 | 3.57 | 3.49 |
| 1/1 | 1/1 | 6.98 | 6.99 |
| 1/1 | 1/1 | 8.14 | 8.23 |
| 1/1 | 1/1 | 8.26 | 8.38 |
| 1/1 | 1/1 | 10.27 | 10.41 |
| 1/1 | 1/1 | 7.82 | 8.02 |
| 0/1 | 1/1 | 2.61 | 2.88 |
| 1/1 | 1/1 | 8.27 | 4.69 |
| 1/1 | 1/1 | 7.95 | 4.98 |
| 1/1 | 0/1 | 8.29 | 6.28 |
| 1/1 | 1/1 | 8.41 | 6.68 |
| 1/1 | 1/1 | 6.01 | 6.37 |
| 1/1 | 1/1 | 5.84 | 6.41 |
| 1/1 | 1/1 | 9.88 | 10.7 |
| 1/1 | 1/1 | 7.94 | 8.79 |
| 0/1 | 1/1 | 2.42 | 3.93 |
| 1/1 | 1/1 | 6.24 | 4.88 |
| 1/1 | 1/1 | 5.66 | 4.65 |
| 1/1 | 1/1 | 6.51 | 5.98 |
| 1/1 | 1/1 | 3.83 | 3.93 |
| 1/1 | 1/1 | 4.83 | 4.98 |
| 1/1 | 1/1 | 7.1 | 7.45 |
| 0/1 | 1/1 | 3.89 | 4.38 |
| 0/1 | 1/1 | 2.98 | 5.59 |
| 1/1 | 1/1 | 3.23 | 5.93 |
| 0/1 | 1/1 | 2.88 | 5.65 |
| 0/1 | 1/1 | 3.73 | 6.55 |
| 0/1 | 1/1 | 2.59 | 5.95 |
| 1/1 | 1/1 | 9.76 | 8.86 |
| 1/1 | 1/1 | 8.84 | 8.16 |
| 1/1 | 1/1 | 11.32 | 11.03 |
| 1/1 | 1/1 | 9.95 | 9.8 |
| 1/1 | 1/1 | 9.48 | 9.43 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 7.65 | 7.74 |
| 1/1 | 1/1 | 7.5 | 7.69 |
| 1/1 | 1/1 | 6.44 | 6.64 |
| 1/1 | 1/1 | 6.53 | 6.88 |
| 1/1 | 1/1 | 9.92 | 10.33 |
| 1/1 | 1/1 | 8.18 | 8.62 |
| 0/1 | 1/1 | 6.93 | 7.49 |
| 1/1 | 1/1 | 9.12 | 9.78 |
| 1/1 | 1/1 | 7.97 | 8.65 |
| 1/1 | 1/1 | 6.54 | 7.27 |
| 1/1 | 1/1 | 6.55 | 7.31 |
| 1/1 | 1/1 | 8.37 | 9.13 |
| 1/1 | 1/1 | 8.48 | 9.28 |
| 1/1 | 1/1 | 6.9 | 7.7 |
| 1/1 | 1/1 | 6.56 | 7.43 |
| 1/1 | 1/1 | 8.02 | 9.05 |
| 1/1 | 1/1 | 6.92 | 9.95 |
| 1/1 | 1/1 | 10.67 | 7.2 |
| 1/1 | 1/1 | 7.36 | 4.05 |
| 1/1 | 1/1 | 11.07 | 8.1 |
| 1/1 | 1/1 | 9.03 | 6.07 |
| 1/1 | 1/1 | 11.87 | 9.29 |
| 1/1 | 1/1 | 12.07 | 9.76 |
| 1/1 | 1/1 | 8.47 | 6.19 |
| 1/1 | 1/1 | 10.87 | 8.62 |
| 1/1 | 1/1 | 10.01 | 8.11 |
| 1/1 | 1/1 | 9.63 | 7.8 |
| 1/1 | 1/1 | 9.41 | 7.79 |
| 1/1 | 0/1 | 7.68 | 5.08 |
| 1/1 | 1/1 | 8.86 | 8.12 |
| 0/1 | 1/1 | 4.68 | 6.09 |
| 1/1 | 1/1 | 7.57 | 4.43 |
| 1/1 | 1/1 | 4.03 | 4.83 |
| 1/1 | 1/1 | 5.46 | 4.3 |
| 1/1 | 1/1 | 3.84 | 3.29 |
| 1/1 | 1/1 | 3.05 | 2.75 |
| 1/1 | 1/1 | 5.76 | 5.71 |
| 0/1 | 1/1 | 3.81 | 3.77 |
| 0/1 | 1/1 | 3.87 | 6.73 |
| 1/1 | 1/1 | 3.23 | 6.11 |
| 1/1 | 1/1 | 3.98 | 7.06 |
| 0/1 | 1/1 | 2.29 | 6.21 |
| 1/1 | 0/1 | 6.46 | 5.39 |
| 1/1 | 1/1 | 6.89 | 6.5 |
| 1/1 | 1/1 | 5.64 | 5.6 |
| 0/1 | 1/1 | 7.01 | 7.2 |
| 1/1 | 1/1 | 8.89 | 9.11 |
| 0/1 | 1/1 | 4.48 | 4.86 |
| 0/1 | 1/1 | 3.65 | 4.47 |
| 1/1 | 1/1 | 7.69 | 6.66 |
| 1/1 | 1/1 | 4.39 | 3.77 |
| 1/1 | 1/1 | 8.3 | 7.89 |
| 1/1 | 1/1 | 8.94 | 8.92 |
| 0/1 | 1/1 | 6.74 | 6.85 |
| 1/1 | 1/1 | 7.78 | 7.91 |
| 1/1 | 1/1 | 6.67 | 6.93 |
| 1/1 | 1/1 | 5.15 | 5.43 |
| 1/1 | 1/1 | 7.7 | 8.03 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.58 | 8.95 |
| 1/1 | 1/1 | 8.98 | 9.46 |
| 1/1 | 1/1 | 8.64 | 9.22 |
| 1/1 | 1/1 | 6.53 | 7.18 |
| 1/1 | 1/1 | 7.46 | 8.12 |
| 1/1 | 1/1 | 6.65 | 7.32 |
| 1/1 | 1/1 | 6.51 | 7.25 |
| 0/1 | 1/1 | 4.99 | 7.96 |
| 1/1 | 1/1 | 4.88 | 7.93 |
| 1/1 | 1/1 | 5.02 | 8.63 |
| 1/1 | 1/1 | 4.63 | 8.36 |
| 0/1 | 1/1 | 2.67 | 6.72 |
| 0/1 | 1/1 | 3.38 | 7.43 |
| 0/1 | 1/1 | 3.97 | 8.18 |
| 0/1 | 1/1 | 4.06 | 8.43 |
| 1/1 | 1/1 | 4.66 | 9.1 |
| 1/1 | 1/1 | 4.75 | 9.28 |
| 1/1 | 1/1 | 4.44 | 9.06 |
| 1/1 | 1/1 | 4.03 | 8.67 |
| 0/1 | 1/1 | 3.81 | 8.93 |
| 0/1 | 1/1 | 2.97 | 9.44 |
| 1/1 | 0/1 | 7.18 | 5.06 |
| 1/1 | 0/1 | 8.11 | 7.2 |
| 1/1 | 1/1 | 9.75 | 8.93 |
| 1/1 | 1/1 | 4.46 | 4 |
| 0/1 | 1/1 | 5.15 | 4.94 |
| 1/1 | 1/1 | 4.01 | 5.93 |
| 1/1 | 1/1 | 4.21 | 6.39 |
| 0/1 | 1/1 | 3.26 | 5.55 |
| 1/1 | 1/1 | 6.5 | 5.73 |
| 1/1 | 1/1 | 7.97 | 7.87 |
| 0/1 | 1/1 | 7.43 | 8.03 |
| 0/1 | 1/1 | 3.21 | 3.89 |
| 1/1 | 1/1 | 3.67 | 7.33 |
| 1/1 | 1/1 | 4.36 | 8.04 |
| 1/1 | 1/1 | 4.33 | 8.89 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 4.16 | 3.93 |
| 1/1 | 1/1 | 10.48 | 10.28 |
| 1/1 | 1/1 | 5.99 | 5.83 |
| 1/1 | 1/1 | 9.38 | 9.33 |
| 1/1 | 1/1 | 6.92 | 7.05 |
| 1/1 | 1/1 | 7.7 | 9.86 |
| 1/1 | 1/1 | 7.11 | 9.99 |
| 1/1 | 1/1 | 7.72 | 4.9 |
| 1/1 | 1/1 | 6.12 | 3.5 |
| 1/1 | 1/1 | 7.07 | 4.69 |
| 1/1 | 1/1 | 7.75 | 5.55 |
| 1/1 | 1/1 | 5.82 | 3.7 |
| 1/1 | 1/1 | 7.31 | 5.19 |
| 1/1 | 1/1 | 7.59 | 5.6 |
| 1/1 | 1/1 | 8.34 | 6.35 |
| 1/1 | 1/1 | 4.82 | 3.11 |
| 1/1 | 0/1 | 4.61 | 2.97 |
| 1/1 | 1/1 | 7.59 | 6.11 |
| 1/1 | 1/1 | 5.09 | 3.75 |
| 1/1 | 1/1 | 5.42 | 6.61 |
| 1/1 | 0/1 | 7.15 | 2.67 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.78 | 2.87 |
| 1/1 | 1/1 | 8.28 | 5.53 |
| 1/1 | 1/1 | 7.18 | 4.51 |
| 1/1 | 1/1 | 6.61 | 3.96 |
| 1/1 | 1/1 | 8.1 | 5.46 |
| 1/1 | 1/1 | 8.08 | 5.45 |
| 1/1 | 1/1 | 5.68 | 5.2 |
| 1/1 | 1/1 | 6.5 | 6.04 |
| 1/1 | 1/1 | 6.78 | 6.38 |
| 1/1 | 1/1 | 3.15 | 2.99 |
| 1/1 | 1/1 | 5.02 | 4.88 |
| 1/1 | 1/1 | 3.79 | 3.69 |
| 1/1 | 1/1 | 7.11 | 7.04 |
| 1/1 | 1/1 | 2.71 | 2.65 |
| 1/1 | 1/1 | 6.47 | 6.51 |
| 1/1 | 1/1 | 5.38 | 5.59 |
| 1/1 | 1/1 | 4.64 | 4.99 |
| 1/1 | 1/1 | 5.66 | 5.55 |
| 0/1 | 1/1 | 6.56 | 6.57 |
| 1/1 | 1/1 | 4.07 | 4.25 |
| 1/1 | 1/1 | 7.31 | 7.96 |
| 1/1 | 1/1 | 6.43 | 7.4 |
| 0/1 | 1/1 | 2.15 | 3.16 |
| 0/1 | 1/1 | 2.58 | 3.76 |
| 0/1 | 1/1 | 4.78 | 6.13 |
| 0/1 | 1/1 | 2.32 | 3.84 |
| 1/1 | 1/1 | 4.44 | 8.22 |
| 0/1 | 1/1 | 4.33 | 8.19 |
| 0/1 | 1/1 | 3.72 | 7.66 |
| 1/1 | 0/1 | 5.29 | 2.13 |
| 1/1 | 1/1 | 4.77 | 5.54 |
| 1/1 | 0/1 | 3.98 | 2.26 |
| 1/1 | 1/1 | 8.45 | 8.01 |
| 1/1 | 1/1 | 11.59 | 11.33 |
| 0/1 | 1/1 | 7.59 | 7.42 |
| 1/1 | 1/1 | 6.46 | 6.35 |
| 1/1 | 1/1 | 3.72 | 3.64 |
| 1/1 | 0/1 | 7.16 | 3.92 |
| 1/1 | 1/1 | 8.23 | 6.68 |
| 0/1 | 1/1 | 4.33 | 5.18 |
| 0/1 | 1/1 | 4.01 | 4.91 |
| 0/1 | 1/1 | 3.48 | 4.56 |
| 1/1 | 0/1 | 5.2 | 3.51 |
| 1/1 | 1/1 | 3.02 | 2.11 |
| 1/1 | 1/1 | 9.05 | 8.38 |
| 1/1 | 1/1 | 10.66 | 10.18 |
| 1/1 | 1/1 | 10.47 | 10 |
| 1/1 | 1/1 | 10.66 | 10.22 |
| 1/1 | 1/1 | 9.07 | 8.67 |
| 0/1 | 1/1 | 4.33 | 3.94 |
| 1/1 | 1/1 | 6.31 | 6.04 |
| 0/1 | 1/1 | 7.61 | 7.36 |
| 1/1 | 1/1 | 12.93 | 12.73 |
| 0/1 | 1/1 | 4.62 | 4.44 |
| 1/1 | 1/1 | 2.77 | 2.62 |
| 1/1 | 1/1 | 4.7 | 4.57 |
| 1/1 | 1/1 | 2.42 | 2.35 |
| 1/1 | 1/1 | 4.86 | 4.84 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.25 | 8.25 |
| 1/1 | 1/1 | 6.08 | 6.12 |
| 0/1 | 1/1 | 6.78 | 6.83 |
| 1/1 | 1/1 | 6.67 | 6.8 |
| 1/1 | 1/1 | 4.22 | 4.37 |
| 1/1 | 1/1 | 5.05 | 5.2 |
| 1/1 | 1/1 | 9.44 | 9.6 |
| 1/1 | 1/1 | 5.24 | 5.43 |
| 1/1 | 1/1 | 8.5 | 4.08 |
| 1/1 | 1/1 | 7.11 | 3.96 |
| 1/1 | 1/1 | 6.96 | 4.25 |
| 1/1 | 0/1 | 4.36 | 1.83 |
| 1/1 | 1/1 | 5.44 | 5.25 |
| 1/1 | 1/1 | 5.04 | 4.95 |
| 1/1 | 1/1 | 9.11 | 9.03 |
| 0/1 | 1/1 | 6.83 | 6.76 |
| 1/1 | 1/1 | 5.32 | 5.26 |
| 0/1 | 1/1 | 4 | 3.99 |
| 1/1 | 1/1 | 3.39 | 3.43 |
| 0/1 | 1/1 | 3.06 | 3.12 |
| 0/1 | 1/1 | 5.86 | 6 |
| 0/1 | 1/1 | 4.49 | 4.76 |
| 0/1 | 1/1 | 4.1 | 4.95 |
| 0/1 | 1/1 | 3.99 | 5.31 |
| 1/1 | 0/1 | 7.46 | 3.86 |
| 1/1 | 0/1 | 6.69 | 3.35 |
| 1/1 | 1/1 | 6.59 | 3.65 |
| 1/1 | 1/1 | 6.97 | 4.38 |
| 1/1 | 1/1 | 5.55 | 3.64 |
| 1/1 | 0/1 | 6.07 | 4.3 |
| 0/1 | 1/1 | 2.11 | 2.42 |
| 1/1 | 0/1 | 4.02 | 2.52 |
| 1/1 | 1/1 | 5 | 4.46 |
| 1/1 | 1/1 | 7.4 | 7.24 |
| 0/1 | 1/1 | 3.65 | 3.59 |
| 1/1 | 1/1 | 3.48 | 3.45 |
| 0/1 | 1/1 | 3.49 | 3.66 |
| 1/1 | 1/1 | 10.91 | 11.14 |
| 1/1 | 1/1 | 4.77 | 5.03 |
| 1/1 | 1/1 | 4.21 | 4.51 |
| 1/1 | 0/1 | 4.12 | 1.81 |
| 1/1 | 1/1 | 3.81 | 5.75 |
| 0/1 | 1/1 | 2.43 | 5.11 |
| 1/1 | 0/1 | 4.22 | 2 |
| 1/1 | 1/1 | 5.37 | 4.95 |
| 0/1 | 1/1 | 5.58 | 5.08 |
| 1/1 | 1/1 | 7.1 | 6.66 |
| 1/1 | 1/1 | 8.41 | 8.12 |
| 0/1 | 1/1 | 5.64 | 5.37 |
| 0/1 | 1/1 | 2.44 | 6.19 |
| 1/1 | 1/1 | 4.94 | 4.56 |
| 1/1 | 1/1 | 5.47 | 5.4 |
| 0/1 | 1/1 | 1.86 | 2.24 |
| 0/1 | 1/1 | 4.63 | 5.03 |
| 1/1 | 1/1 | 4.99 | 5.9 |
| 1/1 | 0/1 | 6.8 | 2.39 |
| 1/1 | 1/1 | 7.16 | 3.3 |
| 1/1 | 1/1 | 7.81 | 4.17 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.54 | 5.25 |
| 1/1 | 1/1 | 6.71 | 3.64 |
| 1/1 | 1/1 | 6.03 | 3.05 |
| 1/1 | 0/1 | 5.7 | 2.73 |
| 1/1 | 1/1 | 6.93 | 4.03 |
| 1/1 | 0/1 | 5.46 | 2.68 |
| 1/1 | 1/1 | 6.33 | 3.57 |
| 1/1 | 0/1 | 6.34 | 3.78 |
| 1/1 | 1/1 | 7.83 | 7.51 |
| 1/1 | 1/1 | 6.97 | 6.67 |
| 1/1 | 1/1 | 6.73 | 6.47 |
| 1/1 | 1/1 | 7.42 | 7.21 |
| 1/1 | 1/1 | 4.48 | 4.26 |
| 1/1 | 1/1 | 5.59 | 5.4 |
| 0/1 | 1/1 | 4.25 | 4.27 |
| 1/1 | 1/1 | 9.06 | 9.13 |
| 1/1 | 1/1 | 4.25 | 4.36 |
| 0/1 | 1/1 | 7.78 | 7.95 |
| 1/1 | 1/1 | 7.75 | 8 |
| 1/1 | 1/1 | 6.8 | 7.13 |
| 1/1 | 1/1 | 5.59 | 6.14 |
| 1/1 | 1/1 | 7.79 | 5.15 |
| 1/1 | 0/1 | 3.84 | 2.01 |
| 0/1 | 1/1 | 3.62 | 4.84 |
| 1/1 | 1/1 | 6.91 | 4.02 |
| 1/1 | 1/1 | 4.9 | 3.87 |
| 1/1 | 1/1 | 9.38 | 8.74 |
| 1/1 | 1/1 | 8.91 | 8.28 |
| 1/1 | 1/1 | 8.44 | 7.83 |
| 1/1 | 1/1 | 9.05 | 8.55 |
| 1/1 | 1/1 | 8.97 | 8.67 |
| 1/1 | 1/1 | 10.01 | 9.79 |
| 1/1 | 1/1 | 6.32 | 6.14 |
| 1/1 | 1/1 | 7.35 | 7.23 |
| 1/1 | 1/1 | 8.96 | 8.86 |
| 1/1 | 1/1 | 8.49 | 8.45 |
| 1/1 | 1/1 | 13.77 | 13.73 |
| 1/1 | 1/1 | 7.07 | 7.12 |
| 0/1 | 1/1 | 6.85 | 6.91 |
| 0/1 | 1/1 | 7.07 | 7.15 |
| 0/1 | 1/1 | 4.1 | 4.2 |
| 0/1 | 1/1 | 3.26 | 3.37 |
| 1/1 | 1/1 | 8.69 | 9 |
| 0/1 | 1/1 | 2.58 | 2.9 |
| 1/1 | 1/1 | 7.61 | 7.96 |
| 1/1 | 1/1 | 9.18 | 9.63 |
| 1/1 | 1/1 | 4.85 | 5.33 |
| 1/1 | 1/1 | 7.05 | 7.66 |
| 0/1 | 1/1 | 5.23 | 5.89 |
| 1/1 | 1/1 | 6.48 | 7.22 |
| 1/1 | 1/1 | 8.13 | 8.9 |
| 0/1 | 1/1 | 5.76 | 6.54 |
| 0/1 | 1/1 | 4.78 | 5.74 |
| 1/1 | 1/1 | 6.07 | 7.12 |
| 1/1 | 1/1 | 5.5 | 6.71 |
| 1/1 | 1/1 | 7.35 | 8.56 |
| 0/1 | 1/1 | 3.12 | 6.49 |
| 1/1 | 1/1 | 5.78 | 5.45 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.53 | 9.32 |
| 1/1 | 1/1 | 9.63 | 9.5 |
| 1/1 | 1/1 | 7.11 | 7.13 |
| 1/1 | 1/1 | 2.4 | 2.49 |
| 0/1 | 1/1 | 1.86 | 2.16 |
| 0/1 | 1/1 | 2.48 | 2.97 |
| 1/1 | 1/1 | 4.48 | 5.05 |
| 0/1 | 1/1 | 3.55 | 4.77 |
| 1/1 | 1/1 | 5.27 | 8.94 |
| 1/1 | 0/1 | 5.83 | 2.66 |
| 1/1 | 0/1 | 4.57 | 2.86 |
| 1/1 | 1/1 | 4.17 | 2.51 |
| 1/1 | 0/1 | 4.77 | 3.19 |
| 1/1 | 1/1 | 6.05 | 4.54 |
| 1/1 | 1/1 | 5.67 | 4.18 |
| 0/1 | 1/1 | 3.16 | 4.25 |
| 1/1 | 0/1 | 5.53 | 4.25 |
| 1/1 | 1/1 | 4.98 | 4.64 |
| 1/1 | 1/1 | 3.25 | 3.09 |
| 0/1 | 1/1 | 4.75 | 4.74 |
| 1/1 | 1/1 | 2.71 | 2.72 |
| 1/1 | 1/1 | 3.1 | 3.2 |
| 1/1 | 1/1 | 3.44 | 3.62 |
| 0/1 | 1/1 | 2.47 | 2.74 |
| 1/1 | 1/1 | 2.77 | 3.23 |
| 0/1 | 1/1 | 6.89 | 7.4 |
| 0/1 | 1/1 | 1.91 | 2.46 |
| 1/1 | 1/1 | 3.57 | 6.94 |
| 1/1 | 1/1 | 7.45 | 4.9 |
| 1/1 | 0/1 | 4.85 | 3.02 |
| 1/1 | 0/1 | 3.62 | 2.31 |
| 1/1 | 0/1 | 3.12 | 2.09 |
| 1/1 | 0/1 | 3.02 | 2.03 |
| 1/1 | 1/1 | 6.38 | 5.64 |
| 1/1 | 1/1 | 4.21 | 3.49 |
| 1/1 | 1/1 | 4.68 | 5.97 |
| 0/1 | 1/1 | 3 | 4.49 |
| 1/1 | 1/1 | 3.92 | 5.69 |
| 1/1 | 1/1 | 8.72 | 7.48 |
| 1/1 | 0/1 | 3.67 | 2.45 |
| 1/1 | 1/1 | 7.85 | 6.75 |
| 0/1 | 1/1 | 5.29 | 4.45 |
| 1/1 | 1/1 | 3.33 | 2.62 |
| 1/1 | 1/1 | 8.96 | 8.37 |
| 1/1 | 1/1 | 11.39 | 11.03 |
| 1/1 | 1/1 | 3.18 | 2.94 |
| 1/1 | 1/1 | 5.95 | 5.74 |
| 1/1 | 1/1 | 3.28 | 3.08 |
| 0/1 | 1/1 | 2.87 | 2.77 |
| 1/1 | 1/1 | 3.61 | 3.65 |
| 1/1 | 1/1 | 5.83 | 5.87 |
| 0/1 | 1/1 | 6.3 | 6.39 |
| 1/1 | 1/1 | 4.54 | 4.69 |
| 1/1 | 1/1 | 4.55 | 4.71 |
| 0/1 | 1/1 | 3.78 | 3.95 |
| 1/1 | 1/1 | 6.24 | 6.43 |
| 0/1 | 1/1 | 2.64 | 2.85 |
| 1/1 | 1/1 | 5.57 | 5.82 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 6.43 | 6.68 |
| 1/1 | 1/1 | 6.84 | 7.15 |
| 1/1 | 1/1 | 5.73 | 6.07 |
| 1/1 | 1/1 | 7.42 | 7.85 |
| 1/1 | 1/1 | 4.36 | 4.8 |
| 1/1 | 1/1 | 6.99 | 7.44 |
| 1/1 | 1/1 | 6 | 6.46 |
| 0/1 | 1/1 | 2.32 | 2.8 |
| 1/1 | 1/1 | 4.11 | 4.61 |
| 1/1 | 1/1 | 5.48 | 5.99 |
| 0/1 | 1/1 | 2.66 | 3.19 |
| 1/1 | 1/1 | 5.9 | 6.43 |
| 1/1 | 1/1 | 5.44 | 8.03 |
| 1/1 | 1/1 | 5.44 | 8.15 |
| 0/1 | 1/1 | 3.37 | 6.12 |
| 1/1 | 1/1 | 3.89 | 6.65 |
| 1/1 | 1/1 | 4.98 | 7.75 |
| 1/1 | 1/1 | 4.51 | 7.28 |
| 1/1 | 1/1 | 4.82 | 7.6 |
| 0/1 | 1/1 | 2.72 | 5.54 |
| 0/1 | 1/1 | 3.8 | 6.86 |
| 1/1 | 1/1 | 3.98 | 7.06 |
| 1/1 | 1/1 | 3.97 | 7.09 |
| 1/1 | 1/1 | 3.43 | 6.56 |
| 1/1 | 1/1 | 3.89 | 7.18 |
| 1/1 | 1/1 | 3.85 | 7.29 |
| 0/1 | 1/1 | 4.2 | 7.67 |
| 0/1 | 1/1 | 2.57 | 6.23 |
| 1/1 | 1/1 | 7.47 | 5.56 |
| 1/1 | 1/1 | 7.54 | 6.81 |
| 1/1 | 0/1 | 2.73 | 2.17 |
| 1/1 | 1/1 | 8.45 | 8.14 |
| 1/1 | 1/1 | 3.05 | 2.87 |
| 0/1 | 1/1 | 2.33 | 2.24 |
| 0/1 | 1/1 | 2.69 | 5.08 |
| 1/1 | 1/1 | 3.58 | 2.76 |
| 1/1 | 1/1 | 7.85 | 7.09 |
| 1/1 | 1/1 | 3.6 | 2.9 |
| 1/1 | 1/1 | 5.91 | 5.44 |
| 1/1 | 1/1 | 5.78 | 5.62 |
| 1/1 | 1/1 | 3.22 | 3.3 |
| 1/1 | 1/1 | 10.4 | 10.51 |
| 1/1 | 1/1 | 5.55 | 5.66 |
| 1/1 | 1/1 | 5.86 | 6.26 |
| 0/1 | 1/1 | 3.94 | 4.43 |
| 1/1 | 1/1 | 4.74 | 5.25 |
| 1/1 | 1/1 | 8.08 | 8.6 |
| 0/1 | 1/1 | 3.77 | 4.35 |
| 0/1 | 1/1 | 2.17 | 3.05 |
| 0/1 | 1/1 | 2.29 | 5.87 |
| 1/1 | 0/1 | 6.29 | 3.46 |
| 1/1 | 0/1 | 5.89 | 3.4 |
| 1/1 | 1/1 | 7.6 | 5.27 |
| 1/1 | 1/1 | 8.28 | 6.01 |
| 1/1 | 1/1 | 10.28 | 8.04 |
| 1/1 | 1/1 | 8.15 | 5.96 |
| 1/1 | 1/1 | 6.96 | 4.86 |
| 1/1 | 1/1 | 7.31 | 5.28 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 8.25 | 6.23 |
| 1/1 | 0/1 | 5.24 | 3.26 |
| 1/1 | 1/1 | 8.02 | 6.08 |
| 1/1 | 1/1 | 7.33 | 5.5 |
| 1/1 | 0/1 | 7.76 | 5.97 |
| 1/1 | 1/1 | 7.35 | 5.6 |
| 1/1 | 1/1 | 8.47 | 6.81 |
| 1/1 | 1/1 | 7.13 | 5.52 |
| 1/1 | 1/1 | 8.51 | 6.91 |
| 1/1 | 1/1 | 9.07 | 7.54 |
| 1/1 | 1/1 | 8.44 | 6.93 |
| 1/1 | 1/1 | 7.78 | 6.27 |
| 1/1 | 1/1 | 7.87 | 6.42 |
| 1/1 | 1/1 | 7.63 | 6.2 |
| 1/1 | 1/1 | 8.3 | 6.89 |
| 1/1 | 1/1 | 7.85 | 6.45 |
| 1/1 | 1/1 | 8.77 | 7.4 |
| 1/1 | 1/1 | 8.29 | 6.92 |
| 1/1 | 1/1 | 8.28 | 6.93 |
| 1/1 | 1/1 | 7.22 | 5.86 |
| 1/1 | 1/1 | 8.78 | 7.44 |
| 1/1 | 1/1 | 7.12 | 5.79 |
| 1/1 | 1/1 | 6.73 | 5.43 |
| 1/1 | 1/1 | 7.22 | 5.93 |
| 1/1 | 1/1 | 8.98 | 7.7 |
| 1/1 | 1/1 | 8.16 | 6.91 |
| 1/1 | 1/1 | 7.98 | 6.77 |
| 1/1 | 1/1 | 6.99 | 5.79 |
| 1/1 | 1/1 | 7.78 | 6.59 |
| 1/1 | 1/1 | 8.4 | 7.22 |
| 1/1 | 1/1 | 6.66 | 5.52 |
| 1/1 | 1/1 | 9.71 | 8.58 |
| 1/1 | 1/1 | 6.68 | 5.58 |
| 1/1 | 1/1 | 8.02 | 6.97 |
| 1/1 | 1/1 | 6.96 | 8.07 |
| 1/1 | 1/1 | 5.86 | 6.08 |
| 1/1 | 1/1 | 5.65 | 6.25 |
| 0/1 | 1/1 | 3.83 | 4.48 |
| 1/1 | 1/1 | 5.91 | 6.6 |
| 0/1 | 1/1 | 3.26 | 4.79 |
| 0/1 | 1/1 | 2.24 | 3.76 |
| 0/1 | 1/1 | 2.98 | 4.74 |
| 1/1 | 1/1 | 6.63 | 3.93 |
| 1/1 | 1/1 | 6.14 | 5.05 |
| 0/1 | 1/1 | 2.97 | 4.38 |
| 1/1 | 1/1 | 8.64 | 10.07 |
| 1/1 | 1/1 | 6.41 | 8.72 |
| 1/1 | 1/1 | 8.07 | 7.69 |
| 1/1 | 1/1 | 8.65 | 8.49 |
| 1/1 | 1/1 | 7.47 | 7.53 |
| 1/1 | 1/1 | 8.1 | 8.74 |
| 1/1 | 1/1 | 7.77 | 9.15 |
| 1/1 | 1/1 | 4.82 | 8.26 |
| 1/1 | 1/1 | 4.57 | 8.04 |
| 1/1 | 1/1 | 4.03 | 7.61 |
| 1/1 | 0/1 | 3.69 | 2.18 |
| 1/1 | 1/1 | 6.14 | 5.77 |
| 0/1 | 1/1 | 3.47 | 3.54 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 3.24 | 3.36 |
| 1/1 | 1/1 | 8.83 | 6.61 |
| 1/1 | 1/1 | 8.65 | 6.48 |
| 1/1 | 0/1 | 4.66 | 3.31 |
| 1/1 | 1/1 | 9.5 | 8.33 |
| 0/1 | 1/1 | 4.43 | 3.74 |
| 1/1 | 1/1 | 5.34 | 4.69 |
| 1/1 | 1/1 | 5.73 | 5.21 |
| 1/1 | 1/1 | 4.99 | 6.6 |
| 0/1 | 1/1 | 2.61 | 4.67 |
| 1/1 | 1/1 | 6.49 | 3.12 |
| 1/1 | 0/1 | 4.71 | 2.21 |
| 1/1 | 1/1 | 8.53 | 6.13 |
| 1/1 | 0/1 | 4.91 | 2.6 |
| 1/1 | 0/1 | 5.08 | 2.77 |
| 1/1 | 1/1 | 4.99 | 2.76 |
| 1/1 | 1/1 | 7.2 | 5.13 |
| 1/1 | 0/1 | 4.14 | 2.37 |
| 1/1 | 0/1 | 5.01 | 3.26 |
| 1/1 | 1/1 | 4.82 | 3.22 |
| 0/1 | 1/1 | 3.76 | 4.75 |
| 1/1 | 0/1 | 6.51 | 3.97 |
| 1/1 | 1/1 | 6.07 | 5.08 |
| 1/1 | 1/1 | 5.49 | 4.7 |
| 1/1 | 1/1 | 8.83 | 8.08 |
| 1/1 | 1/1 | 8.35 | 4.88 |
| 1/1 | 1/1 | 4.18 | 4.52 |
| 1/1 | 1/1 | 4.56 | 5.05 |
| 1/1 | 0/1 | 7.45 | 3.99 |
| 1/1 | 1/1 | 5.93 | 4.19 |
| 1/1 | 1/1 | 4.32 | 5.18 |
| 1/1 | 1/1 | 7 | 4.65 |
| 1/1 | 1/1 | 4.78 | 3.41 |
| 0/1 | 1/1 | 5.54 | 4.86 |
| 1/1 | 0/1 | 2.66 | 2 |
| 1/1 | 1/1 | 8.61 | 8.01 |
| 1/1 | 1/1 | 6.22 | 7.67 |
| 1/1 | 1/1 | 4.28 | 6.12 |
| 0/1 | 1/1 | 1.77 | 3.86 |
| 1/1 | 1/1 | 8.64 | 6.62 |
| 1/1 | 1/1 | 8.24 | 7.56 |
| 1/1 | 1/1 | 4.82 | 4.24 |
| 0/1 | 1/1 | 4.87 | 4.44 |
| 1/1 | 1/1 | 4.22 | 3.82 |
| 1/1 | 0/1 | 4.94 | 2.78 |
| 1/1 | 1/1 | 5.01 | 4.16 |
| 1/1 | 1/1 | 5.93 | 5.22 |
| 1/1 | 1/1 | 3.6 | 3.09 |
| 1/1 | 1/1 | 8.84 | 8.37 |
| 1/1 | 0/1 | 5.16 | 4.27 |
| 1/1 | 1/1 | 9.56 | 8.97 |
| 0/1 | 1/1 | 5.96 | 5.82 |
| 1/1 | 1/1 | 8.6 | 8.54 |
| 0/1 | 1/1 | 3.73 | 3.73 |
| 0/1 | 1/1 | 5.12 | 5.29 |
| 1/1 | 1/1 | 8.92 | 9.18 |
| 0/1 | 1/1 | 4.33 | 4.67 |
| 0/1 | 1/1 | 7.08 | 7.52 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.47 | 6.12 |
| 1/1 | 1/1 | 8.88 | 9.71 |
| 1/1 | 1/1 | 6.97 | 6.45 |
| 1/1 | 1/1 | 4.14 | 3.7 |
| 1/1 | 1/1 | 6.67 | 6.24 |
| 1/1 | 1/1 | 7.62 | 7.34 |
| 1/1 | 1/1 | 6.5 | 6.3 |
| 0/1 | 1/1 | 3.99 | 3.85 |
| 1/1 | 1/1 | 6.89 | 6.78 |
| 0/1 | 1/1 | 3.35 | 3.32 |
| 1/1 | 1/1 | 6.18 | 6.2 |
| 1/1 | 1/1 | 7 | 7.09 |
| 1/1 | 1/1 | 6.25 | 6.35 |
| 1/1 | 1/1 | 12.72 | 12.85 |
| 1/1 | 1/1 | 5.75 | 5.88 |
| 1/1 | 1/1 | 5.79 | 5.93 |
| 1/1 | 1/1 | 6.24 | 6.4 |
| 1/1 | 1/1 | 9.23 | 9.42 |
| 1/1 | 1/1 | 5.07 | 5.86 |
| 1/1 | 1/1 | 8.93 | 9.86 |
| 1/1 | 1/1 | 8.93 | 9.86 |
| 1/1 | 1/1 | 8.86 | 9.9 |
| 1/1 | 1/1 | 6.24 | 7.34 |
| 1/1 | 1/1 | 5.36 | 8.83 |
| 1/1 | 1/1 | 5.99 | 9.45 |
| 1/1 | 1/1 | 11.21 | 11.59 |
| 1/1 | 1/1 | 7.43 | 8.87 |
| 1/1 | 1/1 | 4.61 | 6.67 |
| 1/1 | 0/1 | 8.41 | 6.32 |
| 1/1 | 1/1 | 3.5 | 2.79 |
| 1/1 | 1/1 | 8.51 | 7.87 |
| 1/1 | 1/1 | 7.31 | 6.87 |
| 0/1 | 1/1 | 2.3 | 4.68 |
| 1/1 | 1/1 | 8.67 | 6.82 |
| 1/1 | 1/1 | 3.97 | 3.15 |
| 1/1 | 1/1 | 5.46 | 4.94 |
| 1/1 | 1/1 | 5.43 | 5.05 |
| 1/1 | 1/1 | 3.93 | 3.6 |
| 1/1 | 1/1 | 7.18 | 6.9 |
| 1/1 | 1/1 | 6.81 | 6.66 |
| 0/1 | 1/1 | 4.96 | 4.82 |
| 1/1 | 1/1 | 10.05 | 9.92 |
| 1/1 | 0/1 | 3.95 | 2.85 |
| 1/1 | 0/1 | 3.76 | 2.68 |
| 1/1 | 0/1 | 3.26 | 2.27 |
| 1/1 | 1/1 | 9.74 | 9.37 |
| 1/1 | 1/1 | 5.25 | 4.91 |
| 1/1 | 1/1 | 2.15 | 2.1 |
| 1/1 | 1/1 | 8.64 | 8.6 |
| 0/1 | 1/1 | 4.18 | 4.18 |
| 1/1 | 1/1 | 2.5 | 2.58 |
| 1/1 | 1/1 | 7.93 | 8.14 |
| 0/1 | 1/1 | 5.72 | 5.95 |
| 0/1 | 1/1 | 3.21 | 3.45 |
| 1/1 | 1/1 | 7.2 | 7.46 |
| 0/1 | 1/1 | 3.04 | 3.3 |
| 0/1 | 1/1 | 3.23 | 3.58 |
| 0/1 | 1/1 | 2.92 | 3.3 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.65 | 3.07 |
| 1/1 | 1/1 | 6.05 | 6.47 |
| 1/1 | 1/1 | 6.55 | 6.99 |
| 1/1 | 0/1 | 6.29 | 4.35 |
| 1/1 | 1/1 | 6.75 | 6.14 |
| 0/1 | 1/1 | 5.76 | 7.65 |
| 1/1 | 1/1 | 8.61 | 4.69 |
| 1/1 | 0/1 | 5.29 | 2.47 |
| 1/1 | 1/1 | 8.92 | 6.31 |
| 1/1 | 1/1 | 10.24 | 7.89 |
| 1/1 | 1/1 | 4.74 | 4.6 |
| 0/1 | 1/1 | 3.93 | 4.12 |
| 1/1 | 1/1 | 5.53 | 5.8 |
| 1/1 | 1/1 | 6.94 | 4.43 |
| 1/1 | 1/1 | 6.06 | 4.61 |
| 1/1 | 0/1 | 4.07 | 2.71 |
| 1/1 | 1/1 | 4.15 | 3.12 |
| 1/1 | 1/1 | 5.99 | 5.07 |
| 1/1 | 1/1 | 3.96 | 5.38 |
| 0/1 | 1/1 | 2.2 | 3.65 |
| 1/1 | 0/1 | 5.5 | 2.07 |
| 1/1 | 0/1 | 4.47 | 2.1 |
| 1/1 | 1/1 | 4.44 | 4.83 |
| 0/1 | 1/1 | 3.21 | 3.4 |
| 0/1 | 1/1 | 2.17 | 2.92 |
| 1/1 | 1/1 | 6.88 | 8 |
| 0/1 | 1/1 | 2.52 | 4.26 |
| 1/1 | 1/1 | 3.3 | 5.06 |
| 0/1 | 1/1 | 3.06 | 4.9 |
| 1/1 | 1/1 | 5.43 | 9.73 |
| 0/1 | 1/1 | 3.34 | 7.7 |
| 1/1 | 1/1 | 4.27 | 9.01 |
| 0/1 | 1/1 | 3.7 | 8.98 |
| 0/1 | 1/1 | 3.01 | 8.42 |
| 1/1 | 1/1 | 8.8 | 7.04 |
| 1/1 | 1/1 | 6.93 | 6.21 |
| 1/1 | 1/1 | 7.95 | 7.33 |
| 1/1 | 0/1 | 3.05 | 2.5 |
| 1/1 | 0/1 | 2.68 | 2.14 |
| 1/1 | 1/1 | 5.64 | 5.12 |
| 1/1 | 1/1 | 3.61 | 3.31 |
| 0/1 | 1/1 | 4.79 | 4.51 |
| 1/1 | 1/1 | 3.58 | 3.39 |
| 1/1 | 1/1 | 8.95 | 8.82 |
| 1/1 | 1/1 | 6.09 | 6 |
| 1/1 | 1/1 | 8.97 | 8.9 |
| 0/1 | 1/1 | 4.09 | 4.05 |
| 1/1 | 1/1 | 6.21 | 6.18 |
| 1/1 | 1/1 | 3.41 | 5.54 |
| 0/1 | 1/1 | 2.32 | 4.87 |
| 1/1 | 1/1 | 10.54 | 7.54 |
| 1/1 | 1/1 | 8.76 | 7.1 |
| 1/1 | 1/1 | 6.6 | 5.28 |
| 1/1 | 1/1 | 7.91 | 6.61 |
| 1/1 | 1/1 | 8.82 | 9.63 |
| 0/1 | 1/1 | 4.67 | 5.53 |
| 1/1 | 1/1 | 3.85 | 4.9 |
| 1/1 | 1/1 | 10.35 | 11.56 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.87 | 1.93 |
| 1/1 | 1/1 | 7.12 | 5.03 |
| 1/1 | 0/1 | 5.08 | 3.25 |
| 1/1 | 1/1 | 3.9 | 5.01 |
| 1/1 | 1/1 | 3.28 | 4.43 |
| 1/1 | 1/1 | 6.21 | 7.38 |
| 1/1 | 1/1 | 4.43 | 5.9 |
| 1/1 | 0/1 | 5.27 | 3.68 |
| 1/1 | 1/1 | 6.13 | 4.99 |
| 1/1 | 1/1 | 7.74 | 6.99 |
| 1/1 | 1/1 | 7.49 | 6.91 |
| 1/1 | 1/1 | 6.07 | 5.51 |
| 1/1 | 1/1 | 6.94 | 6.41 |
| 1/1 | 1/1 | 7.8 | 7.29 |
| 1/1 | 1/1 | 6.84 | 6.37 |
| 1/1 | 1/1 | 7.28 | 6.82 |
| 1/1 | 1/1 | 6.82 | 6.38 |
| 1/1 | 1/1 | 5.72 | 5.29 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 6.01 | 5.59 |
| 1/1 | 1/1 | 6.85 | 6.44 |
| 1/1 | 1/1 | 6.66 | 6.28 |
| 1/1 | 1/1 | 7.91 | 7.55 |
| 1/1 | 1/1 | 7.45 | 7.12 |
| 1/1 | 1/1 | 7.68 | 7.37 |
| 0/1 | 1/1 | 7.28 | 6.99 |
| 1/1 | 1/1 | 5.88 | 5.6 |
| 1/1 | 1/1 | 8.69 | 8.4 |
| 1/1 | 0/1 | 4.72 | 4.45 |
| 1/1 | 1/1 | 7.36 | 7.1 |
| 1/1 | 1/1 | 4.82 | 4.58 |
| 0/1 | 1/1 | 4.41 | 4.17 |
| 1/1 | 1/1 | 7.27 | 7.03 |
| 1/1 | 1/1 | 7.13 | 6.89 |
| 1/1 | 1/1 | 4.57 | 4.34 |
| 1/1 | 1/1 | 4.42 | 4.2 |
| 1/1 | 1/1 | 7.08 | 6.86 |
| 1/1 | 1/1 | 8.03 | 7.84 |
| 0/1 | 1/1 | 7.28 | 7.11 |
| 0/1 | 1/1 | 4.88 | 4.71 |
| 0/1 | 1/1 | 6.02 | 5.88 |
| 1/1 | 1/1 | 6.98 | 6.85 |
| 0/1 | 1/1 | 6.85 | 6.71 |
| 1/1 | 1/1 | 6.36 | 6.25 |
| 1/1 | 1/1 | 5.97 | 5.87 |
| 1/1 | 1/1 | 8.36 | 8.25 |
| 1/1 | 1/1 | 10.76 | 10.66 |
| 1/1 | 1/1 | 9.14 | 9.05 |
| 1/1 | 1/1 | 5 | 4.91 |
| 1/1 | 1/1 | 7.52 | 7.44 |
| 1/1 | 1/1 | 9.48 | 9.4 |
| 1/1 | 1/1 | 7.43 | 7.35 |
| 1/1 | 1/1 | 7.91 | 7.85 |
| 1/1 | 1/1 | 9.46 | 9.41 |
| 1/1 | 1/1 | 6.18 | 6.15 |
| 1/1 | 1/1 | 7.04 | 7.01 |
| 1/1 | 1/1 | 5.5 | 5.48 |
| 0/1 | 1/1 | 7.01 | 7.09 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 6.16 | 6.27 |
| 1/1 | 1/1 | 9.89 | 10.02 |
| 0/1 | 1/1 | 5.33 | 5.47 |
| 1/1 | 1/1 | 7.19 | 7.32 |
| 1/1 | 1/1 | 5.61 | 5.74 |
| 0/1 | 1/1 | 6.78 | 6.94 |
| 1/1 | 1/1 | 7.91 | 8.06 |
| 1/1 | 1/1 | 7.14 | 7.3 |
| 0/1 | 1/1 | 2.34 | 2.52 |
| 0/1 | 1/1 | 5.13 | 7.58 |
| 1/1 | 1/1 | 6.38 | 5.65 |
| 1/1 | 0/1 | 7.13 | 6.41 |
| 1/1 | 0/1 | 3.56 | 2.89 |
| 1/1 | 1/1 | 3.95 | 3.38 |
| 1/1 | 1/1 | 7.56 | 6.99 |
| 1/1 | 1/1 | 6.74 | 6.17 |
| 1/1 | 1/1 | 6.5 | 5.93 |
| 1/1 | 1/1 | 3.58 | 3.12 |
| 1/1 | 1/1 | 4.97 | 4.52 |
| 1/1 | 0/1 | 4.06 | 3.63 |
| 1/1 | 0/1 | 3.69 | 3.32 |
| 1/1 | 1/1 | 6.08 | 5.76 |
| 1/1 | 1/1 | 7.17 | 6.91 |
| 1/1 | 1/1 | 6.05 | 5.89 |
| 1/1 | 1/1 | 7.84 | 7.7 |
| 1/1 | 1/1 | 3.82 | 3.67 |
| 0/1 | 1/1 | 3.58 | 3.53 |
| 1/1 | 1/1 | 7.54 | 7.5 |
| 1/1 | 1/1 | 6.3 | 6.27 |
| 1/1 | 1/1 | 3.79 | 3.79 |
| 1/1 | 1/1 | 6.6 | 6.61 |
| 1/1 | 1/1 | 8.6 | 8.66 |
| 0/1 | 1/1 | 3.44 | 3.5 |
| 1/1 | 1/1 | 5.53 | 5.62 |
| 0/1 | 1/1 | 4.35 | 4.45 |
| 0/1 | 1/1 | 6.22 | 6.32 |
| 0/1 | 1/1 | 4.69 | 4.82 |
| 0/1 | 1/1 | 4.42 | 4.58 |
| 0/1 | 1/1 | 3.35 | 3.54 |
| 1/1 | 1/1 | 5.6 | 5.8 |
| 1/1 | 1/1 | 5.27 | 5.5 |
| 0/1 | 1/1 | 3.17 | 3.41 |
| 0/1 | 1/1 | 2.35 | 2.61 |
| 1/1 | 1/1 | 4.83 | 5.11 |
| 0/1 | 1/1 | 6.75 | 7.03 |
| 1/1 | 1/1 | 3.81 | 4.13 |
| 1/1 | 1/1 | 9.99 | 10.33 |
| 1/1 | 1/1 | 4.21 | 4.58 |
| 1/1 | 1/1 | 4.68 | 5.05 |
| 1/1 | 1/1 | 7.45 | 7.85 |
| 1/1 | 1/1 | 4.23 | 4.67 |
| 1/1 | 1/1 | 6.73 | 7.17 |
| 1/1 | 1/1 | 9.91 | 10.37 |
| 0/1 | 1/1 | 3.74 | 4.21 |
| 0/1 | 1/1 | 2.74 | 3.28 |
| 1/1 | 1/1 | 6.55 | 7.09 |
| 1/1 | 1/1 | 3.6 | 4.2 |
| 1/1 | 1/1 | 4.82 | 5.44 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.85 | 5.48 |
| 1/1 | 1/1 | 6.39 | 7.03 |
| 1/1 | 1/1 | 3.99 | 4.68 |
| 1/1 | 1/1 | 6.49 | 7.2 |
| 1/1 | 1/1 | 4.75 | 5.46 |
| 1/1 | 1/1 | 5.92 | 6.64 |
| 1/1 | 1/1 | 6.34 | 7.11 |
| 1/1 | 1/1 | 5.04 | 5.83 |
| 1/1 | 1/1 | 6.34 | 7.13 |
| 0/1 | 1/1 | 4.99 | 5.81 |
| 1/1 | 1/1 | 5.59 | 6.43 |
| 1/1 | 1/1 | 4.97 | 5.82 |
| 1/1 | 1/1 | 4.25 | 5.23 |
| 1/1 | 1/1 | 5.27 | 6.28 |
| 1/1 | 1/1 | 4.97 | 5.99 |
| 1/1 | 0/1 | 5.37 | 2.48 |
| 1/1 | 1/1 | 5.62 | 3.49 |
| 1/1 | 0/1 | 4.26 | 2.14 |
| 1/1 | 0/1 | 3.9 | 2.12 |
| 1/1 | 0/1 | 6.35 | 4.67 |
| 1/1 | 0/1 | 3.57 | 2.03 |
| 1/1 | 1/1 | 4.03 | 2.57 |
| 1/1 | 0/1 | 3.78 | 2.35 |
| 1/1 | 0/1 | 3.67 | 2.27 |
| 1/1 | 1/1 | 6.27 | 4.91 |
| 1/1 | 0/1 | 4.35 | 3.01 |
| 1/1 | 1/1 | 5.39 | 4.06 |
| 1/1 | 0/1 | 3.69 | 2.38 |
| 1/1 | 0/1 | 4.17 | 2.91 |
| 1/1 | 0/1 | 3.64 | 2.46 |
| 1/1 | 1/1 | 6.75 | 5.6 |
| 1/1 | 0/1 | 7.34 | 2 |
| 1/1 | 0/1 | 7.26 | 2.34 |
| 1/1 | 1/1 | 8.39 | 3.68 |
| 1/1 | 1/1 | 9.42 | 5.58 |
| 1/1 | 1/1 | 9.12 | 5.52 |
| 1/1 | 1/1 | 8.37 | 4.77 |
| 1/1 | 1/1 | 8.16 | 6.89 |
| 1/1 | 1/1 | 7.96 | 6.76 |
| 1/1 | 1/1 | 7.32 | 6.14 |
| 1/1 | 1/1 | 9.29 | 8.23 |
| 1/1 | 1/1 | 10.54 | 9.5 |
| 1/1 | 0/1 | 5.07 | 4.09 |
| 1/1 | 1/1 | 6.85 | 5.94 |
| 1/1 | 0/1 | 3.78 | 3.05 |
| 1/1 | 1/1 | 8.81 | 8.16 |
| 1/1 | 1/1 | 9.66 | 9.1 |
| 1/1 | 1/1 | 3.35 | 2.89 |
| 1/1 | 1/1 | 7.38 | 6.96 |
| 1/1 | 1/1 | 8.55 | 8.28 |
| 1/1 | 1/1 | 5.29 | 5.04 |
| 1/1 | 1/1 | 6.13 | 5.9 |
| 1/1 | 1/1 | 10.04 | 9.92 |
| 1/1 | 1/1 | 6.93 | 6.85 |
| 1/1 | 1/1 | 6.97 | 7.15 |
| 0/1 | 1/1 | 3.03 | 3.23 |
| 1/1 | 1/1 | 5.69 | 5.9 |
| 0/1 | 1/1 | 2.49 | 2.7 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.65 | 6.04 |
| 0/1 | 1/1 | 2.62 | 3.36 |
| 1/1 | 1/1 | 6.26 | 6.37 |
| 1/1 | 1/1 | 8.66 | 8.85 |
| 1/1 | 1/1 | 7.95 | 8.14 |
| 1/1 | 1/1 | 5.21 | 5.49 |
| 0/1 | 1/1 | 1.91 | 3.24 |
| 1/1 | 1/1 | 7.01 | 8.4 |
| 1/1 | 1/1 | 4.65 | 8.87 |
| 1/1 | 1/1 | 4.17 | 8.55 |
| 1/1 | 1/1 | 5.71 | 10.24 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 6.08 | 5.28 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 4.71 | 4.16 |
| 1/1 | 1/1 | 9.16 | 9.03 |
| 1/1 | 1/1 | 8.14 | 8.01 |
| 1/1 | 1/1 | 8.47 | 10.71 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 6.08 | 5.28 |
| 1/1 | 1/1 | 4.71 | 4.16 |
| 1/1 | 1/1 | 9.16 | 9.03 |
| 1/1 | 1/1 | 8.14 | 8.01 |
| 1/1 | 1/1 | 8.47 | 10.71 |
| 1/1 | 1/1 | 9.99 | 8.53 |
| 1/1 | 1/1 | 8.8 | 8.98 |
| 1/1 | 1/1 | 3.02 | 3.27 |
| 1/1 | 0/1 | 5.57 | 2.37 |
| 1/1 | 0/1 | 8.12 | 5.06 |
| 1/1 | 0/1 | 5.95 | 3.65 |
| 1/1 | 0/1 | 5.02 | 2.88 |
| 1/1 | 0/1 | 4.7 | 2.7 |
| 1/1 | 1/1 | 6.58 | 4.77 |
| 1/1 | 0/1 | 5.89 | 4.16 |
| 1/1 | 0/1 | 4.68 | 3.07 |
| 1/1 | 0/1 | 4.64 | 3.03 |
| 1/1 | 0/1 | 6.2 | 4.6 |
| 1/1 | 1/1 | 5.67 | 4.15 |
| 0/1 | 1/1 | 6.12 | 6.84 |
| 0/1 | 1/1 | 2.46 | 3.55 |
| 0/1 | 1/1 | 3.91 | 5.07 |
| 1/1 | 1/1 | 8.06 | 8.43 |
| 1/1 | 1/1 | 6.88 | 7.73 |
| 1/1 | 1/1 | 6.73 | 7.91 |
| 1/1 | 1/1 | 3.49 | 4.75 |
| 0/1 | 1/1 | 2.9 | 4.81 |
| 0/1 | 1/1 | 3.8 | 8.13 |
| 0/1 | 1/1 | 2.87 | 7.82 |
| 1/1 | 0/1 | 6.95 | 3.2 |
| 1/1 | 1/1 | 3.89 | 3.93 |
| 1/1 | 1/1 | 5.37 | 5.48 |
| 1/1 | 1/1 | 10.19 | 10.31 |
| 0/1 | 1/1 | 3.56 | 3.83 |
| 1/1 | 0/1 | 5.04 | 2.63 |
| 1/1 | 1/1 | 6.51 | 5.72 |
| 1/1 | 0/1 | 3.16 | 2.41 |
| 1/1 | 1/1 | 4.13 | 3.41 |
| 1/1 | 0/1 | 4.86 | 3.3 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.44 | 2.94 |
| 1/1 | 1/1 | 7.75 | 7.42 |
| 1/1 | 1/1 | 3.02 | 3.14 |
| 1/1 | 1/1 | 6.01 | 5.64 |
| 1/1 | 1/1 | 5.47 | 5.13 |
| 1/1 | 1/1 | 6.09 | 5.81 |
| 1/1 | 1/1 | 8.09 | 7.82 |
| 0/1 | 1/1 | 4.26 | 4.09 |
| 0/1 | 1/1 | 5.11 | 5.15 |
| 0/1 | 1/1 | 5.31 | 5.43 |
| 0/1 | 1/1 | 5.43 | 5.64 |
| 0/1 | 1/1 | 3.28 | 3.67 |
| 0/1 | 1/1 | 2.45 | 2.98 |
| 0/1 | 1/1 | 4.67 | 5.34 |
| 1/1 | 1/1 | 6.03 | 6.83 |
| 1/1 | 1/1 | 4.78 | 5.79 |
| 1/1 | 1/1 | 6.78 | 8 |
| 1/1 | 1/1 | 6.92 | 8.26 |
| 1/1 | 1/1 | 3.39 | 6.8 |
| 1/1 | 1/1 | 3.39 | 7.04 |
| 1/1 | 1/1 | 5.21 | 4.1 |
| 0/1 | 1/1 | 4 | 3.55 |
| 1/1 | 1/1 | 4.79 | 4.39 |
| 1/1 | 1/1 | 5.37 | 5.19 |
| 1/1 | 1/1 | 8.03 | 8.24 |
| 1/1 | 1/1 | 8.07 | 8.32 |
| 1/1 | 1/1 | 4.08 | 4.36 |
| 0/1 | 1/1 | 4.47 | 4.95 |
| 1/1 | 1/1 | 4.53 | 7.31 |
| 1/1 | 1/1 | 6.66 | 4.11 |
| 1/1 | 1/1 | 6.42 | 4 |
| 1/1 | 1/1 | 6.53 | 4.74 |
| 1/1 | 1/1 | 6.86 | 5.15 |
| 1/1 | 1/1 | 8.95 | 7.7 |
| 1/1 | 1/1 | 7.08 | 5.91 |
| 1/1 | 1/1 | 6.47 | 5.48 |
| 1/1 | 1/1 | 6.15 | 5.19 |
| 1/1 | 0/1 | 4.36 | 3.41 |
| 1/1 | 1/1 | 6.41 | 8.01 |
| 1/1 | 1/1 | 8.94 | 8.87 |
| 0/1 | 1/1 | 6.81 | 7.37 |
| 1/1 | 1/1 | 6.62 | 7.34 |
| 1/1 | 1/1 | 6.85 | 8.28 |
| 1/1 | 1/1 | 6.68 | 8.17 |
| 1/1 | 0/1 | 6.16 | 4.46 |
| 1/1 | 1/1 | 6.15 | 5.97 |
| 0/1 | 1/1 | 6.75 | 6.67 |
| 1/1 | 0/1 | 6.91 | 3.77 |
| 1/1 | 1/1 | 6.32 | 4.06 |
| 1/1 | 0/1 | 6.08 | 3.95 |
| 1/1 | 0/1 | 5.65 | 3.66 |
| 1/1 | 1/1 | 7.7 | 5.93 |
| 1/1 | 1/1 | 5.97 | 4.53 |
| 1/1 | 0/1 | 5.95 | 4.51 |
| 1/1 | 0/1 | 5.11 | 3.67 |
| 1/1 | 1/1 | 6.56 | 5.13 |
| 0/1 | 1/1 | 6.4 | 7 |
| 1/1 | 1/1 | 4.55 | 5.18 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.25 | 3.97 |
| 1/1 | 1/1 | 4.14 | 4.92 |
| 0/1 | 1/1 | 2.72 | 3.93 |
| 1/1 | 0/1 | 4.67 | 3.07 |
| 1/1 | 1/1 | 3.75 | 2.85 |
| 1/1 | 0/1 | 5.61 | 4.92 |
| 1/1 | 1/1 | 3.8 | 3.25 |
| 0/1 | 1/1 | 3.3 | 2.97 |
| 1/1 | 1/1 | 3.45 | 3.17 |
| 1/1 | 1/1 | 4.13 | 3.98 |
| 0/1 | 1/1 | 5.47 | 5.34 |
| 1/1 | 1/1 | 6.2 | 6.24 |
| 1/1 | 1/1 | 4.52 | 4.57 |
| 1/1 | 1/1 | 8.86 | 8.94 |
| 0/1 | 1/1 | 2.29 | 5.07 |
| 1/1 | 0/1 | 5.07 | 3.61 |
| 0/1 | 1/1 | 2.69 | 2.55 |
| 1/1 | 1/1 | 5.24 | 5.14 |
| 1/1 | 1/1 | 8.78 | 8.72 |
| 1/1 | 1/1 | 4.08 | 4.31 |
| 1/1 | 1/1 | 10.17 | 10.42 |
| 1/1 | 1/1 | 2.51 | 2.75 |
| 0/1 | 1/1 | 4.38 | 6.67 |
| 1/1 | 1/1 | 4.01 | 6.83 |
| 1/1 | 0/1 | 11.16 | 1.76 |
| 1/1 | 0/1 | 5.99 | 1.97 |
| 1/1 | 0/1 | 5.82 | 1.96 |
| 1/1 | 1/1 | 8.46 | 5.14 |
| 1/1 | 0/1 | 5.42 | 2.24 |
| 1/1 | 1/1 | 7.82 | 5.18 |
| 1/1 | 0/1 | 3.82 | 1.96 |
| 1/1 | 0/1 | 6.05 | 4.51 |
| 0/1 | 1/1 | 5.26 | 4.52 |
| 1/1 | 1/1 | 4.16 | 3.47 |
| 1/1 | 1/1 | 8.1 | 7.59 |
| 1/1 | 1/1 | 3.82 | 3.37 |
| 1/1 | 1/1 | 6.15 | 5.99 |
| 0/1 | 1/1 | 7.61 | 7.45 |
| 0/1 | 1/1 | 2.48 | 2.36 |
| 1/1 | 1/1 | 6.16 | 6.07 |
| 1/1 | 1/1 | 4.02 | 6.48 |
| 1/1 | 0/1 | 3.05 | 2.59 |
| 0/1 | 1/1 | 3.34 | 3.52 |
| 0/1 | 1/1 | 2.28 | 2.56 |
| 0/1 | 1/1 | 3.1 | 3.5 |
| 1/1 | 1/1 | 6.65 | 7.1 |
| 1/1 | 1/1 | 5.45 | 6.04 |
| 0/1 | 1/1 | 2.67 | 3.42 |
| 0/1 | 1/1 | 3.27 | 4.06 |
| 0/1 | 1/1 | 3.18 | 4.05 |
| 0/1 | 1/1 | 5.18 | 6.14 |
| 1/1 | 1/1 | 5.62 | 8.92 |
| 0/1 | 1/1 | 4.1 | 7.95 |
| 1/1 | 1/1 | 9.18 | 7.17 |
| 1/1 | 0/1 | 3.78 | 2.7 |
| 1/1 | 1/1 | 11.59 | 10.94 |
| 0/1 | 1/1 | 3.73 | 5.59 |
| 1/1 | 0/1 | 5.56 | 1.75 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 6.39 | 2.92 |
| 1/1 | 0/1 | 5.46 | 2.41 |
| 1/1 | 0/1 | 4.88 | 1.91 |
| 1/1 | 0/1 | 5.45 | 2.91 |
| 1/1 | 0/1 | 4.48 | 2.21 |
| 1/1 | 0/1 | 4.66 | 2.41 |
| 1/1 | 0/1 | 6.2 | 4.08 |
| 1/1 | 1/1 | 3.37 | 3.42 |
| 1/1 | 1/1 | 5.49 | 5.89 |
| 0/1 | 1/1 | 3.29 | 4.36 |
| 0/1 | 1/1 | 2.88 | 4.25 |
| 1/1 | 1/1 | 10.56 | 4.85 |
| 1/1 | 0/1 | 8.86 | 3.44 |
| 1/1 | 1/1 | 9.58 | 4.21 |
| 1/1 | 0/1 | 7.53 | 2.25 |
| 1/1 | 1/1 | 8.35 | 3.31 |
| 1/1 | 1/1 | 8.59 | 3.74 |
| 1/1 | 0/1 | 7.25 | 2.42 |
| 1/1 | 1/1 | 8.99 | 4.52 |
| 1/1 | 1/1 | 8.21 | 3.84 |
| 1/1 | 1/1 | 8.38 | 4.08 |
| 1/1 | 1/1 | 9.28 | 7.41 |
| 1/1 | 1/1 | 9.07 | 7.29 |
| 1/1 | 1/1 | 6.86 | 5.21 |
| 1/1 | 1/1 | 6.31 | 5.13 |
| 1/1 | 0/1 | 6.26 | 5.13 |
| 1/1 | 1/1 | 7.37 | 6.24 |
| 1/1 | 1/1 | 6.67 | 5.62 |
| 1/1 | 1/1 | 5.92 | 4.88 |
| 1/1 | 1/1 | 7.68 | 7 |
| 1/1 | 1/1 | 5.2 | 4.71 |
| 1/1 | 1/1 | 7.55 | 7.1 |
| 1/1 | 1/1 | 6.27 | 5.94 |
| 1/1 | 1/1 | 3.52 | 3.28 |
| 1/1 | 1/1 | 6.18 | 5.94 |
| 1/1 | 1/1 | 8.65 | 8.47 |
| 0/1 | 1/1 | 6.57 | 6.57 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 6.08 | 5.28 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 4.71 | 4.16 |
| 1/1 | 1/1 | 10.48 | 10.28 |
| 1/1 | 1/1 | 9.18 | 9 |
| 1/1 | 1/1 | 8.51 | 8.36 |
| 1/1 | 1/1 | 9.65 | 11.7 |
| 1/1 | 1/1 | 8.47 | 10.71 |
| 1/1 | 1/1 | 8.25 | 6.32 |
| 1/1 | 0/1 | 4.29 | 2.83 |
| 1/1 | 1/1 | 2.99 | 2.45 |
| 1/1 | 1/1 | 5.23 | 4.72 |
| 1/1 | 1/1 | 6.02 | 5.53 |
| 1/1 | 1/1 | 4.81 | 4.39 |
| 0/1 | 1/1 | 2.86 | 2.6 |
| 1/1 | 0/1 | 5.64 | 3.57 |
| 1/1 | 0/1 | 4.17 | 2.81 |
| 1/1 | 1/1 | 4.18 | 3.41 |
| 1/1 | 1/1 | 4.73 | 4.27 |
| 0/1 | 1/1 | 1.98 | 3.94 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.16 | 5.57 |
| 1/1 | 0/1 | 4.53 | 2.2 |
| 1/1 | 0/1 | 4.54 | 3.44 |
| 1/1 | 1/1 | 5.35 | 4.28 |
| 1/1 | 1/1 | 3.2 | 4.56 |
| 1/1 | 1/1 | 5.4 | 3.6 |
| 1/1 | 1/1 | 4.86 | 4.19 |
| 1/1 | 1/1 | 5.04 | 4.76 |
| 0/1 | 1/1 | 2.49 | 4.39 |
| 1/1 | 1/1 | 4.62 | 6.55 |
| 0/1 | 1/1 | 5 | 6.97 |
| 0/1 | 1/1 | 3.56 | 5.82 |
| 0/1 | 1/1 | 3.58 | 5.89 |
| 1/1 | 1/1 | 3.61 | 5.95 |
| 0/1 | 1/1 | 3.64 | 6.24 |
| 0/1 | 1/1 | 2.56 | 6.42 |
| 1/1 | 1/1 | 7.16 | 4.9 |
| 1/1 | 1/1 | 7.07 | 6.23 |
| 1/1 | 1/1 | 4.07 | 3.24 |
| 1/1 | 1/1 | 6.29 | 7.72 |
| 1/1 | 1/1 | 5.6 | 7.08 |
| 1/1 | 1/1 | 5.21 | 6.69 |
| 0/1 | 1/1 | 3.8 | 5.32 |
| 1/1 | 1/1 | 5.35 | 3.54 |
| 1/1 | 1/1 | 9.15 | 8.27 |
| 1/1 | 0/1 | 4.44 | 3.74 |
| 1/1 | 1/1 | 4.44 | 3.79 |
| 1/1 | 1/1 | 3.77 | 3.33 |
| 1/1 | 1/1 | 7.13 | 6.83 |
| 1/1 | 1/1 | 7.18 | 6.9 |
| 0/1 | 1/1 | 2.87 | 2.61 |
| 1/1 | 1/1 | 6.22 | 6.08 |
| 0/1 | 1/1 | 2.45 | 4.42 |
| 1/1 | 0/1 | 8.57 | 6.85 |
| 1/1 | 1/1 | 5.5 | 4.73 |
| 1/1 | 0/1 | 6.31 | 3.29 |
| 1/1 | 1/1 | 4.12 | 4.82 |
| 1/1 | 1/1 | 6.75 | 7.65 |
| 0/1 | 1/1 | 2.92 | 3.83 |
| 1/1 | 1/1 | 8.82 | 9.75 |
| 1/1 | 1/1 | 7.36 | 8.36 |
| 1/1 | 0/1 | 5.34 | 2.81 |
| 1/1 | 1/1 | 5.34 | 4.23 |
| 0/1 | 1/1 | 4.75 | 5.89 |
| 0/1 | 1/1 | 5.24 | 6.55 |
| 1/1 | 0/1 | 5.04 | 2.56 |
| 0/1 | 1/1 | 2.78 | 4.57 |
| 1/1 | 0/1 | 4.17 | 3.11 |
| 0/1 | 1/1 | 5.4 | 4.61 |
| 0/1 | 1/1 | 5.55 | 5.6 |
| 0/1 | 1/1 | 5.74 | 5.8 |
| 1/1 | 1/1 | 5.35 | 5.57 |
| 1/1 | 1/1 | 6.42 | 6.93 |
| 1/1 | 1/1 | 5.46 | 6.07 |
| 1/1 | 1/1 | 8.88 | 7.54 |
| 1/1 | 1/1 | 7.33 | 6.92 |
| 1/1 | 1/1 | 8.82 | 8.46 |
| 1/1 | 1/1 | 4.32 | 4.29 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.84 | 4.83 |
| 1/1 | 1/1 | 3.52 | 3.52 |
| 1/1 | 1/1 | 10.28 | 10.42 |
| 1/1 | 1/1 | 3.53 | 3.8 |
| 1/1 | 1/1 | 4.37 | 6.76 |
| 1/1 | 1/1 | 4.14 | 6.67 |
| 1/1 | 1/1 | 3.64 | 7.03 |
| 1/1 | 0/1 | 6.59 | 2.67 |
| 1/1 | 0/1 | 5.27 | 1.84 |
| 1/1 | 0/1 | 5.47 | 2.17 |
| 1/1 | 0/1 | 5.53 | 2.34 |
| 1/1 | 0/1 | 5.6 | 2.66 |
| 1/1 | 0/1 | 4.99 | 2.47 |
| 1/1 | 1/1 | 6.1 | 3.67 |
| 1/1 | 1/1 | 5.77 | 5.66 |
| 1/1 | 1/1 | 5.64 | 5.56 |
| 0/1 | 1/1 | 6.41 | 6.34 |
| 1/1 | 1/1 | 3.4 | 3.36 |
| 1/1 | 1/1 | 6.84 | 6.86 |
| 1/1 | 1/1 | 3.99 | 4.01 |
| 0/1 | 1/1 | 5.79 | 5.92 |
| 1/1 | 1/1 | 5.58 | 5.79 |
| 1/1 | 1/1 | 9.65 | 9.96 |
| 1/1 | 1/1 | 5.91 | 6.64 |
| 1/1 | 1/1 | 10.17 | 7.22 |
| 1/1 | 0/1 | 8.84 | 6.06 |
| 1/1 | 0/1 | 5.48 | 2.95 |
| 1/1 | 0/1 | 8.34 | 6.31 |
| 1/1 | 0/1 | 7.23 | 5.25 |
| 1/1 | 0/1 | 5.69 | 3.92 |
| 1/1 | 1/1 | 5.77 | 4.25 |
| 1/1 | 1/1 | 9.83 | 8.32 |
| 1/1 | 1/1 | 6.34 | 4.92 |
| 1/1 | 1/1 | 8.07 | 6.72 |
| 1/1 | 1/1 | 7.33 | 5.98 |
| 1/1 | 1/1 | 5.89 | 7.06 |
| 1/1 | 0/1 | 3.72 | 2.13 |
| 1/1 | 1/1 | 7.31 | 7.39 |
| 1/1 | 0/1 | 4.78 | 2.47 |
| 1/1 | 1/1 | 6.13 | 4.63 |
| 1/1 | 0/1 | 4.62 | 3.23 |
| 1/1 | 1/1 | 7.15 | 5.89 |
| 1/1 | 1/1 | 5.97 | 4.85 |
| 1/1 | 0/1 | 3.65 | 2.69 |
| 1/1 | 1/1 | 4.08 | 3.37 |
| 1/1 | 1/1 | 6.34 | 5.69 |
| 1/1 | 1/1 | 6.17 | 5.53 |
| 0/1 | 1/1 | 2.41 | 3.82 |
| 1/1 | 1/1 | 4.48 | 6.13 |
| 0/1 | 1/1 | 2.54 | 4.8 |
| 1/1 | 0/1 | 6.4 | 3.67 |
| 1/1 | 0/1 | 4.88 | 3.33 |
| 1/1 | 1/1 | 7.2 | 6.13 |
| 1/1 | 1/1 | 7.2 | 6.13 |
| 1/1 | 1/1 | 3.17 | 4.28 |
| 0/1 | 1/1 | 2.07 | 3.42 |
| 1/1 | 0/1 | 6.36 | 4.32 |
| 1/1 | 1/1 | 6.95 | 6.14 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.51 | 3.01 |
| 1/1 | 1/1 | 7.49 | 7.02 |
| 1/1 | 1/1 | 5.84 | 7.54 |
| 0/1 | 1/1 | 2.86 | 4.85 |
| 0/1 | 1/1 | 2.97 | 5.11 |
| 1/1 | 1/1 | 3.5 | 5.73 |
| 1/1 | 1/1 | 11.16 | 11.16 |
| 1/1 | 1/1 | 10.8 | 10.93 |
| 1/1 | 1/1 | 7.41 | 7.68 |
| 1/1 | 1/1 | 7.76 | 8.49 |
| 0/1 | 1/1 | 5.13 | 6.07 |
| 1/1 | 1/1 | 10.08 | 11.06 |
| 1/1 | 1/1 | 8.27 | 9.34 |
| 0/1 | 1/1 | 1.7 | 2.87 |
| 1/1 | 1/1 | 4.18 | 8.91 |
| 1/1 | 1/1 | 9.56 | 9.08 |
| 1/1 | 1/1 | 5.93 | 5.68 |
| 1/1 | 1/1 | 2.67 | 2.55 |
| 1/1 | 1/1 | 6.05 | 5.94 |
| 1/1 | 1/1 | 5.7 | 5.59 |
| 1/1 | 1/1 | 3.59 | 3.49 |
| 1/1 | 1/1 | 9.54 | 9.61 |
| 1/1 | 1/1 | 5.86 | 6 |
| 1/1 | 1/1 | 4.62 | 4.86 |
| 1/1 | 1/1 | 5.79 | 6.07 |
| 1/1 | 1/1 | 5.3 | 5.61 |
| 1/1 | 1/1 | 6.16 | 6.47 |
| 1/1 | 1/1 | 7.58 | 8 |
| 1/1 | 1/1 | 7.67 | 8.24 |
| 0/1 | 1/1 | 2.6 | 3.18 |
| 0/1 | 1/1 | 3.56 | 4.17 |
| 0/1 | 1/1 | 4.4 | 5.12 |
| 0/1 | 1/1 | 2.03 | 2.8 |
| 0/1 | 1/1 | 3.28 | 4.16 |
| 0/1 | 1/1 | 2.71 | 3.64 |
| 1/1 | 1/1 | 3.95 | 5.09 |
| 0/1 | 1/1 | 2.2 | 3.35 |
| 1/1 | 1/1 | 6.27 | 7.44 |
| 1/1 | 1/1 | 4.85 | 8.12 |
| 1/1 | 1/1 | 4.24 | 7.57 |
| 1/1 | 1/1 | 4.68 | 8.11 |
| 0/1 | 1/1 | 4.46 | 7.93 |
| 1/1 | 1/1 | 4.75 | 8.37 |
| 1/1 | 1/1 | 4.4 | 8.04 |
| 1/1 | 1/1 | 5.11 | 8.8 |
| 1/1 | 1/1 | 5.98 | 9.69 |
| 1/1 | 1/1 | 6.38 | 10.11 |
| 0/1 | 1/1 | 2.33 | 6.19 |
| 1/1 | 1/1 | 3.77 | 7.9 |
| 1/1 | 1/1 | 9.47 | 5.38 |
| 1/1 | 1/1 | 9.76 | 5.93 |
| 1/1 | 0/1 | 7.06 | 3.52 |
| 1/1 | 1/1 | 10.21 | 6.76 |
| 1/1 | 0/1 | 7.32 | 3.94 |
| 1/1 | 1/1 | 10.31 | 7.21 |
| 1/1 | 1/1 | 9.32 | 6.58 |
| 1/1 | 1/1 | 8.39 | 5.92 |
| 1/1 | 1/1 | 8.1 | 7.71 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 8.07 | 7.69 |
| 1/1 | 1/1 | 7.26 | 6.89 |
| 1/1 | 1/1 | 6.21 | 5.85 |
| 1/1 | 1/1 | 5.44 | 5.08 |
| 1/1 | 1/1 | 7.49 | 7.14 |
| 1/1 | 1/1 | 7.76 | 7.42 |
| 1/1 | 1/1 | 6.77 | 6.43 |
| 1/1 | 1/1 | 6.57 | 6.29 |
| 1/1 | 1/1 | 6.08 | 5.82 |
| 1/1 | 1/1 | 6.94 | 6.7 |
| 0/1 | 1/1 | 6.56 | 6.34 |
| 1/1 | 1/1 | 7.91 | 7.7 |
| 0/1 | 1/1 | 4.96 | 4.79 |
| 1/1 | 1/1 | 8.02 | 7.86 |
| 1/1 | 1/1 | 8.28 | 8.17 |
| 1/1 | 1/1 | 5.76 | 5.67 |
| 1/1 | 1/1 | 8.46 | 8.38 |
| 1/1 | 1/1 | 7.1 | 7.03 |
| 1/1 | 1/1 | 5.12 | 5.09 |
| 1/1 | 1/1 | 6.84 | 6.86 |
| 1/1 | 1/1 | 7.2 | 7.24 |
| 1/1 | 1/1 | 4.53 | 4.6 |
| 1/1 | 1/1 | 7.14 | 7.21 |
| 1/1 | 1/1 | 6.58 | 6.71 |
| 1/1 | 1/1 | 6.38 | 6.55 |
| 1/1 | 1/1 | 7.45 | 7.76 |
| 1/1 | 1/1 | 7.43 | 7.75 |
| 1/1 | 1/1 | 5.13 | 5.46 |
| 1/1 | 1/1 | 7.74 | 8.08 |
| 1/1 | 1/1 | 6.42 | 6.77 |
| 1/1 | 1/1 | 8.47 | 8.84 |
| 0/1 | 1/1 | 3.98 | 4.37 |
| 1/1 | 1/1 | 5.61 | 6.05 |
| 1/1 | 1/1 | 8.07 | 8.59 |
| 1/1 | 1/1 | 6.88 | 7.41 |
| 1/1 | 1/1 | 3.48 | 4.12 |
| 1/1 | 1/1 | 8.79 | 9.45 |
| 1/1 | 1/1 | 5.33 | 6.11 |
| 0/1 | 1/1 | 3.18 | 4 |
| 0/1 | 1/1 | 6.19 | 7.1 |
| 0/1 | 1/1 | 3.62 | 4.6 |
| 1/1 | 1/1 | 7.05 | 4.01 |
| 1/1 | 1/1 | 7.76 | 5.76 |
| 1/1 | 1/1 | 6.73 | 4.93 |
| 1/1 | 1/1 | 7.22 | 5.72 |
| 1/1 | 1/1 | 6.23 | 5.16 |
| 1/1 | 1/1 | 7.62 | 7.05 |
| 1/1 | 1/1 | 6.25 | 5.74 |
| 1/1 | 1/1 | 4.68 | 4.26 |
| 1/1 | 1/1 | 8.4 | 8.05 |
| 1/1 | 1/1 | 7.79 | 7.85 |
| 1/1 | 1/1 | 5.82 | 8.22 |
| 1/1 | 1/1 | 5.78 | 8.27 |
| 1/1 | 1/1 | 3.71 | 6.29 |
| 0/1 | 1/1 | 2.78 | 5.35 |
| 0/1 | 1/1 | 2.72 | 5.57 |
| 1/1 | 1/1 | 3.72 | 6.7 |
| 0/1 | 1/1 | 2.29 | 6.42 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.92 | 4.57 |
| 1/1 | 1/1 | 7.31 | 8.48 |
| 1/1 | 1/1 | 5.63 | 7.15 |
| 0/1 | 1/1 | 6.08 | 8.32 |
| 1/1 | 0/1 | 6.4 | 3.67 |
| 1/1 | 0/1 | 4.88 | 3.33 |
| 0/1 | 1/1 | 2.07 | 3.42 |
| 1/1 | 1/1 | 4.03 | 5.48 |
| 1/1 | 0/1 | 5.13 | 3.09 |
| 1/1 | 0/1 | 3.83 | 2.46 |
| 1/1 | 1/1 | 4.18 | 3.02 |
| 1/1 | 1/1 | 4.87 | 4.1 |
| 1/1 | 1/1 | 4.88 | 4.17 |
| 1/1 | 1/1 | 4.64 | 4.14 |
| 1/1 | 1/1 | 7.22 | 6.82 |
| 1/1 | 0/1 | 8.8 | 2.52 |
| 1/1 | 1/1 | 9.41 | 4.61 |
| 1/1 | 1/1 | 10.34 | 5.67 |
| 1/1 | 0/1 | 9.75 | 7.55 |
| 1/1 | 1/1 | 8.56 | 6.55 |
| 1/1 | 1/1 | 8.49 | 6.92 |
| 1/1 | 1/1 | 7.55 | 6.79 |
| 1/1 | 1/1 | 4.2 | 3.45 |
| 1/1 | 1/1 | 8.25 | 3.93 |
| 1/1 | 1/1 | 9.02 | 5.32 |
| 1/1 | 1/1 | 7.56 | 4.02 |
| 1/1 | 1/1 | 7.14 | 3.68 |
| 1/1 | 1/1 | 6.41 | 3.14 |
| 1/1 | 1/1 | 6.87 | 3.66 |
| 1/1 | 1/1 | 7.59 | 4.46 |
| 1/1 | 1/1 | 6.95 | 3.92 |
| 1/1 | 0/1 | 6.49 | 3.49 |
| 1/1 | 1/1 | 7.14 | 4.36 |
| 1/1 | 1/1 | 5.34 | 4.74 |
| 1/1 | 1/1 | 6.42 | 5.85 |
| 1/1 | 1/1 | 7.56 | 7.01 |
| 1/1 | 1/1 | 7.01 | 6.46 |
| 1/1 | 1/1 | 6.64 | 6.12 |
| 1/1 | 1/1 | 7.88 | 7.36 |
| 1/1 | 1/1 | 8.08 | 7.59 |
| 1/1 | 1/1 | 9.52 | 9.03 |
| 1/1 | 1/1 | 5.42 | 4.98 |
| 1/1 | 1/1 | 6 | 5.61 |
| 1/1 | 1/1 | 5.43 | 5.05 |
| 1/1 | 1/1 | 5.54 | 5.16 |
| 1/1 | 1/1 | 5.44 | 5.22 |
| 1/1 | 1/1 | 6.51 | 6.44 |
| 1/1 | 1/1 | 5.7 | 5.62 |
| 1/1 | 1/1 | 4.07 | 4.26 |
| 1/1 | 1/1 | 4.2 | 4.44 |
| 1/1 | 1/1 | 9.37 | 9.74 |
| 0/1 | 1/1 | 3.36 | 3.91 |
| 1/1 | 1/1 | 6.32 | 6.97 |
| 0/1 | 1/1 | 3.7 | 4.75 |
| 0/1 | 1/1 | 1.74 | 2.88 |
| 1/1 | 0/1 | 6.1 | 3.23 |
| 1/1 | 1/1 | 6.91 | 4.58 |
| 1/1 | 1/1 | 6.76 | 4.73 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.73 | 4.97 |
| 1/1 | 1/1 | 7.84 | 6.11 |
| 1/1 | 1/1 | 7.62 | 5.98 |
| 1/1 | 0/1 | 4.08 | 2.59 |
| 1/1 | 0/1 | 5.38 | 3.93 |
| 1/1 | 1/1 | 12.41 | 10.99 |
| 1/1 | 1/1 | 8.37 | 7.14 |
| 1/1 | 1/1 | 7.24 | 8.12 |
| 1/1 | 0/1 | 4.68 | 2.41 |
| 1/1 | 1/1 | 5.29 | 3.92 |
| 1/1 | 1/1 | 6.15 | 5.15 |
| 1/1 | 1/1 | 4.93 | 6.57 |
| 1/1 | 0/1 | 6.19 | 2.79 |
| 1/1 | 0/1 | 4.28 | 2.26 |
| 1/1 | 1/1 | 5.71 | 4.64 |
| 1/1 | 1/1 | 6.99 | 6.74 |
| 0/1 | 1/1 | 2.46 | 2.35 |
| 0/1 | 1/1 | 2.75 | 2.73 |
| 1/1 | 1/1 | 5.23 | 5.25 |
| 1/1 | 1/1 | 4.48 | 4.54 |
| 1/1 | 1/1 | 12.55 | 12.71 |
| 0/1 | 1/1 | 3.54 | 3.72 |
| 0/1 | 1/1 | 7.3 | 7.77 |
| 1/1 | 1/1 | 10.77 | 11.25 |
| 1/1 | 1/1 | 4.58 | 7.16 |
| 0/1 | 1/1 | 3.17 | 5.99 |
| 1/1 | 1/1 | 4.61 | 7.49 |
| 0/1 | 1/1 | 2.72 | 5.76 |
| 1/1 | 1/1 | 2.85 | 6.24 |
| 1/1 | 1/1 | 10.47 | 10.16 |
| 1/1 | 1/1 | 11.77 | 11.69 |
| 0/1 | 1/1 | 6.12 | 6.06 |
| 1/1 | 1/1 | 5.09 | 5.05 |
| 0/1 | 1/1 | 2.58 | 2.55 |
| 1/1 | 1/1 | 8.58 | 8.88 |
| 1/1 | 1/1 | 5.3 | 5.63 |
| 1/1 | 1/1 | 8.36 | 8.85 |
| 1/1 | 1/1 | 6.04 | 6.98 |
| 1/1 | 1/1 | 7.17 | 8.2 |
| 0/1 | 1/1 | 2.82 | 6.16 |
| 1/1 | 1/1 | 6.02 | 9.55 |
| 0/1 | 1/1 | 3.04 | 7.01 |
| 0/1 | 1/1 | 3.01 | 7.34 |
| 1/1 | 0/1 | 6.63 | 2.92 |
| 1/1 | 1/1 | 6.43 | 4.07 |
| 1/1 | 1/1 | 7.17 | 4.95 |
| 1/1 | 1/1 | 6.14 | 3.93 |
| 1/1 | 1/1 | 6.78 | 4.66 |
| 1/1 | 1/1 | 5.75 | 5.75 |
| 1/1 | 1/1 | 6.2 | 6.22 |
| 0/1 | 1/1 | 5.23 | 5.32 |
| 1/1 | 1/1 | 3.95 | 4.16 |
| 1/1 | 1/1 | 8.07 | 8.72 |
| 1/1 | 0/1 | 7.08 | 4.36 |
| 1/1 | 0/1 | 6.08 | 4.7 |
| 1/1 | 0/1 | 3.48 | 2.24 |
| 1/1 | 1/1 | 5.31 | 4.11 |
| 1/1 | 1/1 | 7.91 | 6.78 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.32 | 2.43 |
| 1/1 | 1/1 | 7.11 | 6.17 |
| 1/1 | 0/1 | 3.55 | 2.77 |
| 1/1 | 0/1 | 3.88 | 3.33 |
| 1/1 | 0/1 | 2.74 | 2.39 |
| 0/1 | 1/1 | 4.86 | 4.58 |
| 0/1 | 1/1 | 4.86 | 4.58 |
| 1/1 | 1/1 | 5.38 | 7.28 |
| 1/1 | 1/1 | 3.56 | 6.06 |
| 1/1 | 1/1 | 7.05 | 4.16 |
| 1/1 | 0/1 | 5.02 | 2.36 |
| 1/1 | 1/1 | 5.35 | 2.94 |
| 1/1 | 1/1 | 7.19 | 4.8 |
| 1/1 | 1/1 | 7.65 | 5.28 |
| 1/1 | 1/1 | 6.92 | 4.69 |
| 1/1 | 0/1 | 5.17 | 3 |
| 1/1 | 1/1 | 5.84 | 3.71 |
| 1/1 | 0/1 | 4.4 | 2.53 |
| 1/1 | 1/1 | 6.27 | 4.53 |
| 1/1 | 1/1 | 5.67 | 3.98 |
| 1/1 | 1/1 | 6.36 | 4.69 |
| 1/1 | 1/1 | 5.55 | 3.89 |
| 1/1 | 1/1 | 6.2 | 4.66 |
| 1/1 | 1/1 | 6.39 | 4.87 |
| 1/1 | 1/1 | 6.41 | 4.97 |
| 1/1 | 0/1 | 5.81 | 3.27 |
| 1/1 | 1/1 | 11.41 | 10.29 |
| 1/1 | 1/1 | 7.91 | 6.98 |
| 1/1 | 1/1 | 6.03 | 7.14 |
| 1/1 | 1/1 | 6.05 | 7.16 |
| 1/1 | 1/1 | 6.48 | 7.62 |
| 0/1 | 1/1 | 4.82 | 6.01 |
| 1/1 | 1/1 | 6.67 | 7.88 |
| 0/1 | 1/1 | 4.26 | 5.46 |
| 1/1 | 1/1 | 7.13 | 8.4 |
| 1/1 | 1/1 | 7.1 | 8.42 |
| 1/1 | 1/1 | 4.31 | 6.06 |
| 0/1 | 1/1 | 4.69 | 6.58 |
| 1/1 | 1/1 | 6.73 | 8.65 |
| 0/1 | 1/1 | 5.09 | 7.06 |
| 0/1 | 1/1 | 4.7 | 6.71 |
| 0/1 | 1/1 | 3.5 | 5.72 |
| 0/1 | 1/1 | 3.56 | 5.95 |
| 0/1 | 1/1 | 4.55 | 7.18 |
| 1/1 | 1/1 | 5.2 | 8.02 |
| 1/1 | 1/1 | 5.02 | 7.87 |
| 0/1 | 1/1 | 2.86 | 6.24 |
| 1/1 | 1/1 | 4.33 | 8.33 |
| 1/1 | 0/1 | 7.99 | 5.97 |
| 1/1 | 1/1 | 8.28 | 7.56 |
| 1/1 | 1/1 | 7.21 | 6.61 |
| 1/1 | 1/1 | 3.39 | 5.2 |
| 1/1 | 1/1 | 4.76 | 6.6 |
| 1/1 | 1/1 | 6.79 | 4.47 |
| 1/1 | 1/1 | 12.52 | 10.65 |
| 1/1 | 1/1 | 8.29 | 7.15 |
| 1/1 | 0/1 | 3.52 | 2.49 |
| 1/1 | 1/1 | 4.4 | 5.79 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.12 | 6.31 |
| 1/1 | 0/1 | 3.33 | 2.32 |
| 1/1 | 1/1 | 4.43 | 4.1 |
| 0/1 | 1/1 | 2.38 | 2.66 |
| 1/1 | 1/1 | 6.74 | 7.08 |
| 0/1 | 1/1 | 3.34 | 3.73 |
| 1/1 | 1/1 | 4.59 | 7.25 |
| 1/1 | 1/1 | 7.38 | 5.47 |
| 1/1 | 1/1 | 5.62 | 4.1 |
| 1/1 | 1/1 | 8.52 | 7.91 |
| 1/1 | 1/1 | 10.2 | 9.83 |
| 1/1 | 1/1 | 6.44 | 6.09 |
| 1/1 | 1/1 | 7.01 | 6.69 |
| 1/1 | 1/1 | 7.25 | 6.93 |
| 1/1 | 1/1 | 5.31 | 8.01 |
| 1/1 | 1/1 | 6.67 | 5.4 |
| 1/1 | 1/1 | 5.87 | 5.32 |
| 1/1 | 1/1 | 3.3 | 2.89 |
| 1/1 | 1/1 | 3.09 | 2.8 |
| 1/1 | 1/1 | 5.8 | 5.53 |
| 0/1 | 1/1 | 6.52 | 6.46 |
| 0/1 | 1/1 | 3.74 | 3.7 |
| 1/1 | 1/1 | 4.44 | 4.4 |
| 1/1 | 1/1 | 7.01 | 7.1 |
| 0/1 | 1/1 | 6.97 | 7.26 |
| 0/1 | 1/1 | 3.08 | 5.47 |
| 1/1 | 1/1 | 4.83 | 7.55 |
| 1/1 | 0/1 | 6.83 | 5.09 |
| 1/1 | 1/1 | 4.1 | 2.81 |
| 1/1 | 1/1 | 2.74 | 2.08 |
| 1/1 | 1/1 | 5.14 | 4.48 |
| 1/1 | 1/1 | 7.22 | 6.9 |
| 1/1 | 1/1 | 4.41 | 4.19 |
| 1/1 | 1/1 | 9.73 | 9.52 |
| 1/1 | 1/1 | 5.85 | 5.65 |
| 1/1 | 1/1 | 7.95 | 7.8 |
| 1/1 | 1/1 | 6.09 | 5.94 |
| 0/1 | 1/1 | 2.81 | 5.28 |
| 1/1 | 1/1 | 9.18 | 4.4 |
| 1/1 | 0/1 | 8.41 | 3.93 |
| 1/1 | 1/1 | 9.55 | 5.47 |
| 1/1 | 1/1 | 8.66 | 4.6 |
| 1/1 | 1/1 | 11.05 | 7.08 |
| 1/1 | 1/1 | 10.89 | 7.21 |
| 1/1 | 1/1 | 9.3 | 5.64 |
| 1/1 | 1/1 | 10.42 | 6.88 |
| 1/1 | 1/1 | 10.22 | 6.85 |
| 1/1 | 1/1 | 9.35 | 5.99 |
| 1/1 | 0/1 | 6.53 | 3.21 |
| 1/1 | 0/1 | 5.59 | 2.31 |
| 1/1 | 1/1 | 7.18 | 6.1 |
| 1/1 | 1/1 | 7.61 | 6.54 |
| 1/1 | 1/1 | 6.52 | 5.52 |
| 1/1 | 1/1 | 6.17 | 5.26 |
| 1/1 | 1/1 | 8.77 | 7.88 |
| 1/1 | 1/1 | 6.78 | 6.11 |
| 1/1 | 1/1 | 8.39 | 7.84 |
| 1/1 | 1/1 | 6.66 | 6.13 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.33 | 3.91 |
| 1/1 | 1/1 | 9.96 | 9.95 |
| 0/1 | 1/1 | 3.76 | 3.75 |
| 1/1 | 1/1 | 8.02 | 8.06 |
| 1/1 | 1/1 | 5.39 | 5.85 |
| 1/1 | 1/1 | 6.42 | 5.59 |
| 1/1 | 1/1 | 8.41 | 7.83 |
| 1/1 | 1/1 | 6.04 | 5.84 |
| 1/1 | 1/1 | 7.76 | 7.69 |
| 1/1 | 1/1 | 5.15 | 5.17 |
| 0/1 | 1/1 | 1.91 | 2 |
| 0/1 | 1/1 | 5.97 | 6.17 |
| 1/1 | 1/1 | 10.69 | 10.89 |
| 1/1 | 1/1 | 7.76 | 8.35 |
| 1/1 | 1/1 | 3.68 | 6.76 |
| 1/1 | 1/1 | 7.99 | 5.78 |
| 1/1 | 1/1 | 5.3 | 4.39 |
| 1/1 | 1/1 | 8.67 | 7.85 |
| 0/1 | 1/1 | 2.91 | 4.59 |
| 1/1 | 0/1 | 5.57 | 3.09 |
| 1/1 | 0/1 | 4.25 | 3.05 |
| 1/1 | 1/1 | 4.65 | 3.52 |
| 1/1 | 1/1 | 5.99 | 5.07 |
| 0/1 | 1/1 | 2.56 | 4.82 |
| 0/1 | 1/1 | 3.4 | 5.82 |
| 1/1 | 1/1 | 5.06 | 4.38 |
| 1/1 | 1/1 | 8.04 | 7.47 |
| 0/1 | 1/1 | 3.41 | 3.08 |
| 0/1 | 1/1 | 3.23 | 3.07 |
| 1/1 | 1/1 | 6.74 | 6.62 |
| 1/1 | 1/1 | 4.52 | 4.6 |
| 1/1 | 1/1 | 5.97 | 6.19 |
| 1/1 | 1/1 | 7 | 7.24 |
| 1/1 | 1/1 | 4.21 | 4.6 |
| 1/1 | 1/1 | 8.41 | 8.86 |
| 1/1 | 1/1 | 6.6 | 7.11 |
| 1/1 | 1/1 | 6.78 | 7.35 |
| 0/1 | 1/1 | 2.95 | 3.6 |
| 1/1 | 1/1 | 8.23 | 8.91 |
| 1/1 | 1/1 | 6.29 | 7.05 |
| 1/1 | 1/1 | 6.2 | 7.01 |
| 1/1 | 1/1 | 6.95 | 7.76 |
| 0/1 | 1/1 | 2.18 | 5.55 |
| 1/1 | 1/1 | 8.32 | 8.37 |
| 1/1 | 1/1 | 11.25 | 11.49 |
| 0/1 | 1/1 | 2.69 | 3.1 |
| 1/1 | 1/1 | 4.23 | 4.91 |
| 0/1 | 1/1 | 2.84 | 3.58 |
| 0/1 | 1/1 | 2.34 | 3.21 |
| 0/1 | 1/1 | 3.48 | 4.58 |
| 1/1 | 1/1 | 7.68 | 8.98 |
| 1/1 | 1/1 | 6.62 | 8.1 |
| 1/1 | 1/1 | 3.61 | 7.93 |
| 1/1 | 0/1 | 5.04 | 2.89 |
| 1/1 | 1/1 | 6.32 | 5.7 |
| 1/1 | 1/1 | 5.65 | 4.47 |
| 1/1 | 1/1 | 6.52 | 5.35 |
| 1/1 | 1/1 | 6.67 | 6.17 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.17 | 5.92 |
| 1/1 | 1/1 | 7.99 | 7.76 |
| 1/1 | 1/1 | 5.64 | 5.49 |
| 1/1 | 1/1 | 4.18 | 4.06 |
| 1/1 | 1/1 | 3.17 | 3.09 |
| 1/1 | 1/1 | 9.33 | 9.38 |
| 1/1 | 1/1 | 4.13 | 4.19 |
| 1/1 | 1/1 | 5.26 | 5.39 |
| 0/1 | 1/1 | 2.5 | 2.75 |
| 0/1 | 1/1 | 3.77 | 4.11 |
| 1/1 | 1/1 | 4.61 | 7.18 |
| 1/1 | 1/1 | 11.07 | 8.48 |
| 1/1 | 1/1 | 5.76 | 4.77 |
| 1/1 | 1/1 | 5 | 4.01 |
| 0/1 | 1/1 | 4.24 | 5.32 |
| 0/1 | 1/1 | 5.17 | 6.37 |
| 1/1 | 1/1 | 4.27 | 3.29 |
| 1/1 | 1/1 | 3.22 | 2.47 |
| 1/1 | 1/1 | 7.39 | 6.92 |
| 1/1 | 1/1 | 7.7 | 7.28 |
| 1/1 | 1/1 | 9.95 | 9.66 |
| 0/1 | 1/1 | 4.42 | 4.23 |
| 1/1 | 1/1 | 6.12 | 6 |
| 1/1 | 1/1 | 5.13 | 5.03 |
| 1/1 | 1/1 | 7.42 | 7.34 |
| 1/1 | 1/1 | 4.79 | 4.72 |
| 1/1 | 1/1 | 6.49 | 6.44 |
| 1/1 | 1/1 | 6.41 | 6.38 |
| 1/1 | 1/1 | 7.04 | 7.02 |
| 0/1 | 1/1 | 2.68 | 2.75 |
| 1/1 | 1/1 | 5.52 | 5.7 |
| 1/1 | 1/1 | 4.39 | 4.65 |
| 0/1 | 1/1 | 2.54 | 2.8 |
| 1/1 | 1/1 | 5.82 | 6.09 |
| 0/1 | 1/1 | 3.95 | 4.24 |
| 1/1 | 1/1 | 6.5 | 6.81 |
| 0/1 | 1/1 | 3.58 | 3.93 |
| 1/1 | 1/1 | 8.68 | 9.09 |
| 0/1 | 1/1 | 5.64 | 6.08 |
| 0/1 | 1/1 | 4.83 | 5.44 |
| 1/1 | 1/1 | 3.61 | 4.24 |
| 1/1 | 1/1 | 3.6 | 6.51 |
| 0/1 | 1/1 | 3.25 | 6.29 |
| 0/1 | 1/1 | 2.87 | 6.66 |
| 1/1 | 0/1 | 4.17 | 3.37 |
| 1/1 | 0/1 | 2.72 | 2.21 |
| 1/1 | 1/1 | 7.08 | 6.87 |
| 1/1 | 1/1 | 4.22 | 4.04 |
| 0/1 | 1/1 | 6.88 | 6.73 |
| 1/1 | 1/1 | 4.5 | 4.39 |
| 0/1 | 1/1 | 4.79 | 4.73 |
| 1/1 | 1/1 | 5.8 | 5.78 |
| 1/1 | 1/1 | 12.14 | 12.16 |
| 0/1 | 1/1 | 2.87 | 2.99 |
| 1/1 | 1/1 | 6.75 | 6.89 |
| 1/1 | 1/1 | 9.87 | 10.17 |
| 1/1 | 1/1 | 5.44 | 5.78 |
| 1/1 | 1/1 | 8.78 | 9.18 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 1.94 | 2.37 |
| 1/1 | 1/1 | 3.06 | 3.62 |
| 1/1 | 1/1 | 6.79 | 7.38 |
| 1/1 | 1/1 | 6 | 6.59 |
| 0/1 | 1/1 | 2.35 | 3.09 |
| 1/1 | 1/1 | 6.41 | 7.16 |
| 1/1 | 1/1 | 7.72 | 5.5 |
| 1/1 | 1/1 | 6.69 | 6.03 |
| 1/1 | 1/1 | 3.56 | 5.01 |
| 1/1 | 1/1 | 5.52 | 7.08 |
| 1/1 | 0/1 | 3.51 | 2.35 |
| 1/1 | 1/1 | 12.85 | 12.76 |
| 1/1 | 1/1 | 5.83 | 5.79 |
| 1/1 | 1/1 | 5.77 | 5.79 |
| 1/1 | 1/1 | 6.93 | 6.97 |
| 0/1 | 1/1 | 2.31 | 2.52 |
| 1/1 | 1/1 | 7.04 | 7.28 |
| 0/1 | 1/1 | 7 | 7.3 |
| 0/1 | 1/1 | 4.66 | 4.99 |
| 0/1 | 1/1 | 3.16 | 5.61 |
| 0/1 | 1/1 | 3.66 | 6.15 |
| 0/1 | 1/1 | 2.44 | 5.09 |
| 0/1 | 1/1 | 3.01 | 6 |
| 1/1 | 1/1 | 4.24 | 7.29 |
| 0/1 | 1/1 | 3.64 | 6.71 |
| 1/1 | 1/1 | 2.91 | 5.98 |
| 0/1 | 1/1 | 2.85 | 5.94 |
| 1/1 | 1/1 | 3.35 | 6.74 |
| 1/1 | 1/1 | 5.79 | 9.23 |
| 0/1 | 1/1 | 2.53 | 6.28 |
| 1/1 | 1/1 | 4.95 | 9.24 |
| 0/1 | 1/1 | 2.97 | 7.49 |
| 0/1 | 1/1 | 3.43 | 8.33 |
| 1/1 | 0/1 | 5.66 | 3.55 |
| 1/1 | 1/1 | 5.16 | 3.63 |
| 1/1 | 1/1 | 5.66 | 4.69 |
| 1/1 | 1/1 | 3.78 | 2.98 |
| 1/1 | 1/1 | 4.38 | 3.62 |
| 1/1 | 0/1 | 2.89 | 2.2 |
| 1/1 | 1/1 | 4.7 | 4.15 |
| 0/1 | 1/1 | 2.49 | 4.11 |
| 0/1 | 1/1 | 2.76 | 4.39 |
| 1/1 | 0/1 | 5.1 | 3.58 |
| 1/1 | 1/1 | 6.26 | 5.11 |
| 1/1 | 0/1 | 5.21 | 4.16 |
| 1/1 | 1/1 | 5.55 | 4.64 |
| 1/1 | 1/1 | 9.44 | 8.86 |
| 1/1 | 1/1 | 6.74 | 6.18 |
| 1/1 | 1/1 | 5.99 | 5.47 |
| 1/1 | 1/1 | 4.01 | 3.64 |
| 1/1 | 1/1 | 10.76 | 10.45 |
| 1/1 | 1/1 | 9.08 | 8.78 |
| 1/1 | 1/1 | 6.04 | 5.78 |
| 0/1 | 1/1 | 2.97 | 2.76 |
| 1/1 | 1/1 | 5.23 | 5.02 |
| 1/1 | 1/1 | 8.68 | 8.49 |
| 0/1 | 1/1 | 5.95 | 5.8 |
| 1/1 | 1/1 | 9.38 | 9.24 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.53 | 9.4 |
| 1/1 | 1/1 | 5.68 | 5.57 |
| 0/1 | 1/1 | 9.4 | 9.29 |
| 1/1 | 1/1 | 5.95 | 5.87 |
| 1/1 | 1/1 | 7.36 | 7.29 |
| 1/1 | 1/1 | 9.78 | 9.76 |
| 1/1 | 1/1 | 4.96 | 4.98 |
| 1/1 | 1/1 | 5.6 | 5.64 |
| 0/1 | 1/1 | 2.55 | 2.59 |
| 1/1 | 1/1 | 3.38 | 3.43 |
| 1/1 | 1/1 | 7.32 | 7.38 |
| 0/1 | 1/1 | 2.58 | 4.87 |
| 0/1 | 1/1 | 3.45 | 6.48 |
| 0/1 | 1/1 | 2.71 | 6.01 |
| 1/1 | 0/1 | 5.63 | 3.21 |
| 1/1 | 1/1 | 5.27 | 4.14 |
| 1/1 | 0/1 | 3.57 | 2.45 |
| 1/1 | 1/1 | 7.3 | 6.17 |
| 1/1 | 1/1 | 6.73 | 5.72 |
| 0/1 | 1/1 | 3.74 | 5.19 |
| 1/1 | 1/1 | 3.53 | 4.99 |
| 1/1 | 1/1 | 8.27 | 7.32 |
| 1/1 | 1/1 | 9.93 | 9.24 |
| 1/1 | 1/1 | 6.47 | 5.95 |
| 1/1 | 1/1 | 8.58 | 8.08 |
| 1/1 | 1/1 | 6.62 | 6.23 |
| 1/1 | 1/1 | 7.76 | 7.51 |
| 0/1 | 1/1 | 6.15 | 5.93 |
| 1/1 | 1/1 | 8.18 | 7.96 |
| 1/1 | 1/1 | 9.27 | 9.09 |
| 1/1 | 1/1 | 10.7 | 10.55 |
| 1/1 | 1/1 | 8.59 | 8.44 |
| 1/1 | 1/1 | 5.59 | 5.46 |
| 1/1 | 1/1 | 8.6 | 8.49 |
| 1/1 | 1/1 | 8.8 | 8.7 |
| 1/1 | 1/1 | 5.62 | 5.56 |
| 1/1 | 1/1 | 13.28 | 13.24 |
| 0/1 | 1/1 | 6.02 | 6.1 |
| 1/1 | 1/1 | 6.57 | 6.68 |
| 1/1 | 1/1 | 8.24 | 8.37 |
| 1/1 | 1/1 | 7.11 | 7.24 |
| 1/1 | 1/1 | 7.68 | 7.82 |
| 0/1 | 1/1 | 5.41 | 5.57 |
| 1/1 | 1/1 | 8.08 | 8.27 |
| 1/1 | 1/1 | 9 | 9.22 |
| 1/1 | 1/1 | 6.29 | 6.53 |
| 0/1 | 1/1 | 5.01 | 5.3 |
| 0/1 | 1/1 | 5.83 | 6.14 |
| 0/1 | 1/1 | 4.76 | 5.1 |
| 1/1 | 1/1 | 7.34 | 7.7 |
| 1/1 | 1/1 | 6.84 | 7.2 |
| 1/1 | 1/1 | 7.28 | 7.65 |
| 1/1 | 1/1 | 7.49 | 7.86 |
| 0/1 | 1/1 | 5.58 | 5.96 |
| 1/1 | 1/1 | 6.03 | 6.45 |
| 0/1 | 1/1 | 5 | 5.44 |
| 1/1 | 1/1 | 6.04 | 6.53 |
| 1/1 | 1/1 | 3.57 | 4.11 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.27 | 7.85 |
| 1/1 | 1/1 | 7.47 | 8.09 |
| 0/1 | 1/1 | 6.72 | 7.36 |
| 0/1 | 1/1 | 3.97 | 6.83 |
| 1/1 | 1/1 | 6.7 | 5.74 |
| 1/1 | 1/1 | 5.91 | 5.29 |
| 1/1 | 1/1 | 8.03 | 7.65 |
| 1/1 | 1/1 | 13.58 | 13.38 |
| 0/1 | 1/1 | 3.62 | 3.44 |
| 1/1 | 1/1 | 9.1 | 9.1 |
| 1/1 | 1/1 | 9.45 | 9.48 |
| 1/1 | 1/1 | 6.05 | 6.22 |
| 0/1 | 1/1 | 7.23 | 7.44 |
| 1/1 | 1/1 | 8.63 | 8.88 |
| 1/1 | 1/1 | 8.22 | 8.52 |
| 0/1 | 1/1 | 3.62 | 4.02 |
| 1/1 | 1/1 | 6.45 | 6.96 |
| 1/1 | 1/1 | 6.33 | 6.85 |
| 0/1 | 1/1 | 4.16 | 6.79 |
| 1/1 | 1/1 | 5.65 | 8.39 |
| 1/1 | 1/1 | 5.39 | 3.43 |
| 1/1 | 1/1 | 5.29 | 7.01 |
| 1/1 | 1/1 | 4.14 | 5.89 |
| 1/1 | 1/1 | 7.44 | 4.91 |
| 1/1 | 0/1 | 4.26 | 2.58 |
| 1/1 | 1/1 | 4.67 | 3.13 |
| 1/1 | 1/1 | 4.8 | 3.4 |
| 1/1 | 0/1 | 2.99 | 2 |
| 1/1 | 1/1 | 5.51 | 4.53 |
| 1/1 | 0/1 | 4.58 | 3.51 |
| 0/1 | 1/1 | 4.13 | 3.79 |
| 0/1 | 1/1 | 4.04 | 3.81 |
| 1/1 | 1/1 | 7.48 | 7.26 |
| 0/1 | 1/1 | 3.84 | 3.67 |
| 1/1 | 1/1 | 4.55 | 4.49 |
| 1/1 | 1/1 | 9.03 | 9 |
| 1/1 | 1/1 | 7.67 | 7.75 |
| 1/1 | 1/1 | 7.61 | 7.72 |
| 0/1 | 1/1 | 3.11 | 3.22 |
| 0/1 | 1/1 | 3.22 | 3.5 |
| 0/1 | 1/1 | 2.48 | 2.77 |
| 1/1 | 1/1 | 7.2 | 7.53 |
| 1/1 | 1/1 | 4.75 | 5.09 |
| 1/1 | 1/1 | 10.39 | 10.74 |
| 1/1 | 1/1 | 4.21 | 6.76 |
| 0/1 | 1/1 | 3.07 | 6.81 |
| 1/1 | 0/1 | 5.4 | 2.9 |
| 1/1 | 1/1 | 3.14 | 4.41 |
| 0/1 | 1/1 | 2.9 | 4.23 |
| 1/1 | 1/1 | 5.77 | 7.28 |
| 1/1 | 1/1 | 5.61 | 5.1 |
| 1/1 | 1/1 | 7.37 | 6.95 |
| 1/1 | 0/1 | 3.74 | 3.4 |
| 1/1 | 1/1 | 6.26 | 5.92 |
| 0/1 | 1/1 | 5.27 | 5.19 |
| 1/1 | 1/1 | 6.96 | 7.01 |
| 1/1 | 1/1 | 6.99 | 7.26 |
| 1/1 | 1/1 | 4.91 | 5.25 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.93 | 4.43 |
| 1/1 | 1/1 | 6.33 | 6.94 |
| 1/1 | 1/1 | 10.8 | 9.43 |
| 1/1 | 1/1 | 11.2 | 10.02 |
| 1/1 | 1/1 | 5.87 | 5.27 |
| 1/1 | 1/1 | 6.46 | 6.15 |
| 1/1 | 1/1 | 6.76 | 6.52 |
| 0/1 | 1/1 | 5.76 | 5.54 |
| 1/1 | 1/1 | 6.92 | 6.81 |
| 1/1 | 1/1 | 7.42 | 7.39 |
| 1/1 | 1/1 | 5.49 | 5.49 |
| 0/1 | 1/1 | 5.04 | 5.04 |
| 0/1 | 1/1 | 5.99 | 6.02 |
| 0/1 | 1/1 | 8.54 | 8.58 |
| 0/1 | 1/1 | 6.78 | 6.84 |
| 1/1 | 1/1 | 5.59 | 5.73 |
| 1/1 | 1/1 | 7.28 | 7.47 |
| 1/1 | 1/1 | 7.05 | 7.25 |
| 1/1 | 1/1 | 7.34 | 10.39 |
| 1/1 | 1/1 | 7.33 | 5 |
| 0/1 | 1/1 | 5.29 | 4.23 |
| 1/1 | 0/1 | 7.07 | 6.14 |
| 1/1 | 1/1 | 5.44 | 6.86 |
| 1/1 | 1/1 | 11.24 | 10.09 |
| 1/1 | 1/1 | 7.46 | 6.43 |
| 1/1 | 1/1 | 8.82 | 8.55 |
| 1/1 | 1/1 | 5.51 | 5.28 |
| 0/1 | 1/1 | 7.28 | 7.06 |
| 1/1 | 1/1 | 6.46 | 6.29 |
| 1/1 | 1/1 | 6.65 | 6.49 |
| 1/1 | 1/1 | 7.79 | 7.73 |
| 1/1 | 1/1 | 7.14 | 7.12 |
| 1/1 | 1/1 | 7.61 | 7.59 |
| 1/1 | 1/1 | 6.03 | 6.06 |
| 1/1 | 1/1 | 11.72 | 11.82 |
| 1/1 | 1/1 | 6.02 | 6.25 |
| 0/1 | 1/1 | 3.75 | 4.04 |
| 1/1 | 1/1 | 6.28 | 6.58 |
| 1/1 | 1/1 | 6.77 | 7.1 |
| 1/1 | 1/1 | 5.73 | 6.14 |
| 1/1 | 1/1 | 4.56 | 7.09 |
| 1/1 | 1/1 | 3.91 | 6.6 |
| 0/1 | 1/1 | 3.54 | 6.63 |
| 0/1 | 1/1 | 3.22 | 6.64 |
| 0/1 | 1/1 | 2.93 | 6.84 |
| 0/1 | 1/1 | 2.85 | 7.29 |
| 1/1 | 0/1 | 7.32 | 4.26 |
| 0/1 | 1/1 | 2.48 | 3.03 |
| 1/1 | 1/1 | 5.84 | 4.67 |
| 1/1 | 1/1 | 9.41 | 9.42 |
| 1/1 | 0/1 | 7.02 | 2.75 |
| 1/1 | 0/1 | 5.79 | 2 |
| 1/1 | 0/1 | 7.25 | 3.99 |
| 1/1 | 0/1 | 6.43 | 3.26 |
| 1/1 | 1/1 | 7.11 | 6.7 |
| 1/1 | 1/1 | 7.64 | 7.27 |
| 1/1 | 1/1 | 7.76 | 7.4 |
| 0/1 | 1/1 | 5.6 | 5.32 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 5.73 | 5.5 |
| 1/1 | 1/1 | 5.01 | 4.96 |
| 1/1 | 1/1 | 4.87 | 5.07 |
| 0/1 | 1/1 | 4.17 | 4.41 |
| 1/1 | 1/1 | 7.98 | 8.24 |
| 1/1 | 1/1 | 4.46 | 4.74 |
| 1/1 | 1/1 | 4.08 | 4.57 |
| 1/1 | 1/1 | 7.93 | 6.71 |
| 1/1 | 1/1 | 5.45 | 4.4 |
| 1/1 | 1/1 | 4.36 | 3.61 |
| 1/1 | 1/1 | 3.79 | 3.06 |
| 1/1 | 1/1 | 6.54 | 5.98 |
| 0/1 | 1/1 | 3.65 | 3.14 |
| 1/1 | 1/1 | 4.69 | 4.22 |
| 1/1 | 0/1 | 2.95 | 2.53 |
| 0/1 | 1/1 | 3.25 | 2.85 |
| 1/1 | 1/1 | 3.3 | 2.95 |
| 1/1 | 1/1 | 3.32 | 2.99 |
| 1/1 | 1/1 | 3.92 | 3.62 |
| 1/1 | 1/1 | 4.81 | 4.53 |
| 1/1 | 1/1 | 2.99 | 2.73 |
| 0/1 | 1/1 | 2.6 | 2.37 |
| 1/1 | 1/1 | 3.58 | 3.36 |
| 0/1 | 1/1 | 3.69 | 3.49 |
| 1/1 | 1/1 | 4.29 | 4.1 |
| 1/1 | 1/1 | 3.68 | 3.53 |
| 1/1 | 1/1 | 4.73 | 4.6 |
| 1/1 | 1/1 | 6.92 | 6.81 |
| 1/1 | 1/1 | 4.38 | 4.27 |
| 1/1 | 1/1 | 3.58 | 3.53 |
| 1/1 | 1/1 | 7.4 | 7.38 |
| 1/1 | 1/1 | 3.78 | 3.82 |
| 1/1 | 1/1 | 6.51 | 6.58 |
| 1/1 | 1/1 | 6.31 | 6.4 |
| 1/1 | 1/1 | 3.03 | 3.13 |
| 0/1 | 1/1 | 3.23 | 3.36 |
| 0/1 | 1/1 | 2.86 | 3.03 |
| 1/1 | 1/1 | 4.98 | 5.18 |
| 1/1 | 1/1 | 3.44 | 3.65 |
| 1/1 | 1/1 | 3.26 | 3.48 |
| 1/1 | 1/1 | 4.92 | 5.15 |
| 0/1 | 1/1 | 2.61 | 2.86 |
| 1/1 | 1/1 | 3.19 | 3.51 |
| 1/1 | 1/1 | 7.06 | 7.41 |
| 1/1 | 1/1 | 3.68 | 6.11 |
| 1/1 | 1/1 | 9.3 | 6.79 |
| 1/1 | 1/1 | 5.27 | 4.32 |
| 1/1 | 1/1 | 3.74 | 5.38 |
| 1/1 | 1/1 | 8.71 | 6.11 |
| 1/1 | 0/1 | 5.21 | 3.24 |
| 1/1 | 1/1 | 5.9 | 6.99 |
| 1/1 | 1/1 | 5.59 | 6.85 |
| 1/1 | 1/1 | 6.59 | 8.02 |
| 1/1 | 0/1 | 6.03 | 3.99 |
| 1/1 | 1/1 | 6.09 | 5.6 |
| 1/1 | 1/1 | 5.46 | 3.12 |
| 1/1 | 1/1 | 7.3 | 6.19 |
| 1/1 | 1/1 | 7.75 | 6.86 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.38 | 3.58 |
| 1/1 | 1/1 | 8.31 | 7.51 |
| 0/1 | 1/1 | 3.28 | 4.51 |
| 0/1 | 1/1 | 3.98 | 5.41 |
| 1/1 | 1/1 | 3.93 | 5.38 |
| 0/1 | 1/1 | 4.16 | 5.78 |
| 0/1 | 1/1 | 2.49 | 4.13 |
| 0/1 | 1/1 | 2.35 | 4 |
| 0/1 | 1/1 | 3.65 | 6 |
| 1/1 | 1/1 | 10.75 | 10.85 |
| 1/1 | 1/1 | 6.25 | 10.07 |
| 1/1 | 1/1 | 5.48 | 3.76 |
| 1/1 | 1/1 | 10.26 | 9.65 |
| 1/1 | 1/1 | 5.56 | 5.09 |
| 1/1 | 1/1 | 10.58 | 10.15 |
| 1/1 | 1/1 | 10.14 | 9.71 |
| 0/1 | 1/1 | 4.22 | 3.86 |
| 1/1 | 1/1 | 6.69 | 6.4 |
| 1/1 | 1/1 | 8.7 | 8.43 |
| 0/1 | 1/1 | 6.45 | 6.25 |
| 1/1 | 1/1 | 3.82 | 5.85 |
| 1/1 | 1/1 | 6.73 | 4.61 |
| 1/1 | 1/1 | 5.97 | 4.61 |
| 0/1 | 1/1 | 2.89 | 4.53 |
| 0/1 | 1/1 | 2.87 | 6.03 |
| 1/1 | 1/1 | 5.47 | 4.25 |
| 1/1 | 1/1 | 7.03 | 6.94 |
| 0/1 | 1/1 | 3.75 | 3.76 |
| 0/1 | 1/1 | 3.38 | 3.42 |
| 0/1 | 1/1 | 4.21 | 4.26 |
| 1/1 | 1/1 | 7.03 | 7.23 |
| 1/1 | 1/1 | 4.67 | 4.96 |
| 0/1 | 1/1 | 4.45 | 7.47 |
| 1/1 | 1/1 | 10.2 | 8.49 |
| 1/1 | 0/1 | 4.31 | 3.04 |
| 1/1 | 0/1 | 3.54 | 2.48 |
| 1/1 | 1/1 | 6.31 | 5.34 |
| 1/1 | 1/1 | 6.17 | 5.36 |
| 1/1 | 0/1 | 3.39 | 2.61 |
| 1/1 | 1/1 | 3.23 | 2.51 |
| 1/1 | 1/1 | 5.58 | 4.87 |
| 1/1 | 1/1 | 4.44 | 3.79 |
| 1/1 | 1/1 | 5.39 | 4.82 |
| 1/1 | 1/1 | 4.17 | 3.71 |
| 1/1 | 1/1 | 6.75 | 6.38 |
| 1/1 | 1/1 | 3.72 | 3.35 |
| 1/1 | 0/1 | 3.17 | 2.84 |
| 1/1 | 1/1 | 3.71 | 3.45 |
| 1/1 | 1/1 | 3.27 | 3.03 |
| 1/1 | 1/1 | 2.85 | 2.64 |
| 1/1 | 1/1 | 4.21 | 4.01 |
| 1/1 | 1/1 | 3.23 | 3.06 |
| 1/1 | 1/1 | 5.7 | 5.54 |
| 1/1 | 1/1 | 8.29 | 6.43 |
| 0/1 | 1/1 | 5.22 | 4.74 |
| 1/1 | 1/1 | 7.23 | 6.86 |
| 1/1 | 1/1 | 8.08 | 7.76 |
| 1/1 | 1/1 | 4.74 | 6.47 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.06 | 5.07 |
| 0/1 | 1/1 | 2.21 | 4.48 |
| 0/1 | 1/1 | 2.95 | 5.51 |
| 0/1 | 1/1 | 3.81 | 6.39 |
| 0/1 | 1/1 | 2.76 | 5.38 |
| 0/1 | 1/1 | 2.4 | 5.05 |
| 0/1 | 1/1 | 2.31 | 5.45 |
| 1/1 | 1/1 | 5.34 | 2.82 |
| 1/1 | 1/1 | 6.55 | 7.6 |
| 0/1 | 1/1 | 2.79 | 3.91 |
| 1/1 | 1/1 | 4.14 | 5.45 |
| 1/1 | 1/1 | 4.83 | 3.14 |
| 1/1 | 0/1 | 3.7 | 3.06 |
| 1/1 | 0/1 | 9.36 | 8.88 |
| 1/1 | 1/1 | 7.69 | 7.32 |
| 1/1 | 1/1 | 6.99 | 6.83 |
| 1/1 | 1/1 | 5.14 | 4.61 |
| 1/1 | 1/1 | 4.88 | 4.49 |
| 0/1 | 1/1 | 4.56 | 4.17 |
| 1/1 | 1/1 | 6.46 | 6.09 |
| 1/1 | 1/1 | 7.05 | 6.7 |
| 0/1 | 1/1 | 8.12 | 7.98 |
| 1/1 | 1/1 | 5.31 | 5.21 |
| 1/1 | 1/1 | 11.17 | 11.17 |
| 0/1 | 1/1 | 7.42 | 7.47 |
| 1/1 | 1/1 | 7.96 | 8.05 |
| 1/1 | 1/1 | 5.02 | 5.14 |
| 1/1 | 1/1 | 7.52 | 7.68 |
| 1/1 | 1/1 | 8.12 | 8.45 |
| 1/1 | 1/1 | 4.91 | 5.26 |
| 1/1 | 1/1 | 2.67 | 3.39 |
| 0/1 | 1/1 | 4.03 | 5.03 |
| 1/1 | 0/1 | 7.02 | 3.47 |
| 1/1 | 1/1 | 8.07 | 5.14 |
| 1/1 | 0/1 | 5.65 | 2.84 |
| 1/1 | 1/1 | 6.56 | 4.2 |
| 1/1 | 1/1 | 4.57 | 4.56 |
| 1/1 | 1/1 | 5.78 | 5.83 |
| 1/1 | 1/1 | 7.22 | 7.34 |
| 1/1 | 1/1 | 4.71 | 4.94 |
| 1/1 | 1/1 | 4.82 | 3.7 |
| 1/1 | 1/1 | 4.54 | 3.94 |
| 1/1 | 1/1 | 7.4 | 6.95 |
| 1/1 | 1/1 | 3.49 | 3.14 |
| 1/1 | 1/1 | 7.37 | 7.16 |
| 1/1 | 1/1 | 4.63 | 4.43 |
| 1/1 | 1/1 | 13.03 | 12.87 |
| 1/1 | 1/1 | 9.41 | 9.47 |
| 1/1 | 1/1 | 8.47 | 8.8 |
| 0/1 | 1/1 | 4.58 | 4.97 |
| 1/1 | 1/1 | 2.38 | 2.77 |
| 0/1 | 1/1 | 3.94 | 6.46 |
| 1/1 | 0/1 | 5.29 | 2.89 |
| 1/1 | 1/1 | 4.06 | 5.61 |
| 1/1 | 1/1 | 3.78 | 5.34 |
| 1/1 | 1/1 | 7.98 | 6.16 |
| 1/1 | 0/1 | 2.96 | 1.69 |
| 1/1 | 1/1 | 2.73 | 2.22 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.4 | 2.91 |
| 1/1 | 1/1 | 9.46 | 9.15 |
| 1/1 | 0/1 | 7.83 | 3.23 |
| 1/1 | 0/1 | 7.61 | 3.01 |
| 1/1 | 1/1 | 7.11 | 3.14 |
| 1/1 | 0/1 | 7.03 | 3.24 |
| 1/1 | 0/1 | 8.41 | 4.76 |
| 1/1 | 0/1 | 6.25 | 2.65 |
| 1/1 | 1/1 | 7.12 | 3.54 |
| 1/1 | 0/1 | 6.35 | 2.8 |
| 1/1 | 0/1 | 7.47 | 3.95 |
| 1/1 | 0/1 | 6.21 | 2.94 |
| 1/1 | 0/1 | 5.98 | 2.76 |
| 1/1 | 0/1 | 7.25 | 4.06 |
| 1/1 | 0/1 | 4.81 | 1.63 |
| 1/1 | 1/1 | 8.19 | 5.02 |
| 1/1 | 1/1 | 7.51 | 6.48 |
| 1/1 | 1/1 | 6.9 | 5.87 |
| 1/1 | 1/1 | 6.26 | 5.28 |
| 1/1 | 0/1 | 2.79 | 1.94 |
| 1/1 | 1/1 | 5.83 | 5.05 |
| 1/1 | 0/1 | 3.58 | 2.81 |
| 1/1 | 1/1 | 3.8 | 3.1 |
| 1/1 | 0/1 | 4.94 | 4.3 |
| 1/1 | 1/1 | 7.79 | 7.21 |
| 1/1 | 1/1 | 6.15 | 5.68 |
| 1/1 | 1/1 | 6.66 | 6.33 |
| 1/1 | 1/1 | 4.4 | 4.15 |
| 1/1 | 1/1 | 10.41 | 10.3 |
| 1/1 | 0/1 | 3.53 | 3.55 |
| 1/1 | 0/1 | 5.6 | 2.73 |
| 1/1 | 0/1 | 5.64 | 3.77 |
| 0/1 | 1/1 | 4.62 | 5.59 |
| 1/1 | 0/1 | 6.29 | 3.48 |
| 1/1 | 0/1 | 5.79 | 3.24 |
| 1/1 | 0/1 | 7.86 | 6.13 |
| 1/1 | 1/1 | 7.73 | 6.35 |
| 1/1 | 1/1 | 5.08 | 3.74 |
| 1/1 | 1/1 | 5.05 | 3.7 |
| 1/1 | 1/1 | 4.35 | 3.06 |
| 0/1 | 1/1 | 5.5 | 6.26 |
| 1/1 | 1/1 | 2.96 | 3.96 |
| 1/1 | 1/1 | 4.2 | 5.21 |
| 1/1 | 1/1 | 3.31 | 4.34 |
| 0/1 | 1/1 | 2.84 | 4.77 |
| 1/1 | 0/1 | 7.16 | 5.45 |
| 1/1 | 0/1 | 6.77 | 5.77 |
| 1/1 | 1/1 | 5.2 | 4.22 |
| 1/1 | 1/1 | 11.44 | 10.74 |
| 1/1 | 1/1 | 9.81 | 9.17 |
| 1/1 | 1/1 | 6.49 | 6.04 |
| 1/1 | 1/1 | 7.55 | 7.19 |
| 1/1 | 1/1 | 6.89 | 6.66 |
| 1/1 | 0/1 | 4.77 | 3.58 |
| 1/1 | 1/1 | 3.21 | 2.68 |
| 1/1 | 1/1 | 7.97 | 7.59 |
| 0/1 | 1/1 | 5.62 | 5.35 |
| 1/1 | 1/1 | 6.14 | 6.15 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 4.34 | 4.39 |
| 0/1 | 1/1 | 6.61 | 6.91 |
| 1/1 | 1/1 | 6.83 | 7.16 |
| 1/1 | 1/1 | 7.48 | 7.81 |
| 0/1 | 1/1 | 5.02 | 7.51 |
| 1/1 | 1/1 | 4.49 | 6.99 |
| 1/1 | 1/1 | 4.98 | 7.49 |
| 1/1 | 1/1 | 5.77 | 8.33 |
| 1/1 | 1/1 | 5.41 | 8.02 |
| 0/1 | 1/1 | 3.87 | 6.96 |
| 1/1 | 1/1 | 9.95 | 8.59 |
| 1/1 | 1/1 | 4.98 | 3.79 |
| 0/1 | 1/1 | 5 | 4.76 |
| 1/1 | 1/1 | 5.74 | 5.59 |
| 1/1 | 1/1 | 4.98 | 4.83 |
| 1/1 | 1/1 | 8.14 | 8.16 |
| 0/1 | 1/1 | 7.55 | 7.62 |
| 0/1 | 1/1 | 4.21 | 4.32 |
| 0/1 | 1/1 | 6.88 | 7.02 |
| 1/1 | 1/1 | 5.37 | 5.55 |
| 1/1 | 1/1 | 5.13 | 7.3 |
| 1/1 | 1/1 | 5.52 | 7.88 |
| 0/1 | 1/1 | 4.06 | 6.47 |
| 1/1 | 1/1 | 6.65 | 9.1 |
| 1/1 | 1/1 | 4.93 | 7.46 |
| 1/1 | 1/1 | 6.02 | 8.57 |
| 1/1 | 1/1 | 5.1 | 7.76 |
| 1/1 | 1/1 | 4.64 | 7.35 |
| 1/1 | 1/1 | 4.39 | 7.11 |
| 0/1 | 1/1 | 4.05 | 7.24 |
| 1/1 | 1/1 | 7.4 | 5.28 |
| 1/1 | 1/1 | 4.32 | 2.93 |
| 1/1 | 1/1 | 3.99 | 5.82 |
| 1/1 | 0/1 | 7.33 | 2.35 |
| 1/1 | 0/1 | 7.83 | 3.22 |
| 1/1 | 1/1 | 7.44 | 3.15 |
| 1/1 | 1/1 | 3.67 | 2.41 |
| 1/1 | 0/1 | 3.82 | 2.79 |
| 1/1 | 1/1 | 7.03 | 6.05 |
| 1/1 | 0/1 | 2.73 | 1.75 |
| 1/1 | 1/1 | 5.74 | 5.14 |
| 1/1 | 1/1 | 2.39 | 2.17 |
| 1/1 | 1/1 | 2.86 | 2.67 |
| 1/1 | 0/1 | 2.19 | 2.14 |
| 1/1 | 1/1 | 5.32 | 5.5 |
| 1/1 | 0/1 | 4.86 | 2.22 |
| 1/1 | 0/1 | 5.25 | 2.65 |
| 1/1 | 1/1 | 5.3 | 3.16 |
| 1/1 | 0/1 | 3.65 | 2.19 |
| 1/1 | 1/1 | 6.12 | 5.01 |
| 1/1 | 1/1 | 5.6 | 6.56 |
| 0/1 | 1/1 | 5.72 | 7.33 |
| 1/1 | 1/1 | 10.09 | 8.02 |
| 1/1 | 1/1 | 5.32 | 4.45 |
| 1/1 | 1/1 | 4.14 | 3.52 |
| 1/1 | 1/1 | 5.25 | 4.65 |
| 1/1 | 1/1 | 6.27 | 7.73 |
| 1/1 | 1/1 | 4.96 | 6.55 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 8.72 | 8.14 |
| 0/1 | 1/1 | 7 | 6.66 |
| 1/1 | 1/1 | 5.17 | 5.04 |
| 1/1 | 1/1 | 8.72 | 8.6 |
| 1/1 | 1/1 | 7.1 | 6.98 |
| 1/1 | 1/1 | 9 | 9.01 |
| 1/1 | 1/1 | 5.35 | 5.43 |
| 0/1 | 1/1 | 3.02 | 3.2 |
| 1/1 | 1/1 | 5.51 | 5.97 |
| 1/1 | 1/1 | 7.63 | 8.3 |
| 0/1 | 1/1 | 4.5 | 5.29 |
| 0/1 | 1/1 | 3.95 | 6.91 |
| 0/1 | 1/1 | 3.57 | 6.57 |
| 0/1 | 1/1 | 4.21 | 7.47 |
| 0/1 | 1/1 | 3.68 | 7.08 |
| 1/1 | 1/1 | 3.92 | 7.72 |
| 0/1 | 1/1 | 3.91 | 7.75 |
| 0/1 | 1/1 | 3.96 | 7.85 |
| 1/1 | 1/1 | 4.64 | 8.63 |
| 0/1 | 1/1 | 3.53 | 8.03 |
| 1/1 | 1/1 | 5.1 | 2.84 |
| 1/1 | 1/1 | 4.53 | 2.97 |
| 1/1 | 0/1 | 3.92 | 2.57 |
| 1/1 | 1/1 | 11.73 | 10.91 |
| 1/1 | 0/1 | 4.6 | 2.26 |
| 1/1 | 0/1 | 6.2 | 4.82 |
| 1/1 | 1/1 | 4.36 | 5.65 |
| 1/1 | 0/1 | 7.05 | 3.92 |
| 1/1 | 1/1 | 5.68 | 3.74 |
| 1/1 | 0/1 | 4.32 | 2.52 |
| 1/1 | 0/1 | 4.78 | 3 |
| 1/1 | 0/1 | 5.64 | 3.89 |
| 1/1 | 1/1 | 6.2 | 4.5 |
| 0/1 | 1/1 | 1.85 | 2.45 |
| 0/1 | 1/1 | 2.16 | 3.06 |
| 1/1 | 1/1 | 5.63 | 6.57 |
| 0/1 | 1/1 | 1.64 | 2.59 |
| 0/1 | 1/1 | 5.04 | 6 |
| 1/1 | 1/1 | 4.2 | 5.31 |
| 1/1 | 0/1 | 7.78 | 4.65 |
| 1/1 | 0/1 | 5.75 | 3.62 |
| 1/1 | 1/1 | 7.73 | 5.72 |
| 1/1 | 1/1 | 9.24 | 7.25 |
| 1/1 | 1/1 | 7.36 | 5.46 |
| 1/1 | 0/1 | 4.5 | 2.65 |
| 1/1 | 1/1 | 7.87 | 6.05 |
| 1/1 | 0/1 | 4.95 | 3.13 |
| 1/1 | 1/1 | 7.33 | 5.57 |
| 1/1 | 0/1 | 5.67 | 4 |
| 0/1 | 1/1 | 7.04 | 7.49 |
| 0/1 | 1/1 | 2.68 | 3.69 |
| 0/1 | 1/1 | 6.14 | 5.73 |
| 1/1 | 1/1 | 9.88 | 9.5 |
| 0/1 | 1/1 | 2.25 | 2.31 |
| 0/1 | 1/1 | 3.84 | 4 |
| 0/1 | 1/1 | 2.69 | 2.9 |
| 1/1 | 1/1 | 7.27 | 7.51 |
| 0/1 | 1/1 | 2.49 | 2.79 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.98 | 6.35 |
| 1/1 | 1/1 | 8.5 | 8.95 |
| 0/1 | 1/1 | 3.25 | 4.13 |
| 1/1 | 1/1 | 7.83 | 8.88 |
| 1/1 | 1/1 | 3.92 | 7.19 |
| 0/1 | 1/1 | 3.29 | 7.13 |
| 0/1 | 1/1 | 2.07 | 6.1 |
| 0/1 | 1/1 | 2.63 | 6.92 |
| 1/1 | 0/1 | 4.42 | 2.57 |
| 1/1 | 1/1 | 4.24 | 3.04 |
| 1/1 | 1/1 | 11.56 | 10.87 |
| 1/1 | 1/1 | 5.88 | 5.21 |
| 1/1 | 1/1 | 6.16 | 5.6 |
| 1/1 | 1/1 | 3.85 | 3.3 |
| 1/1 | 1/1 | 4.97 | 4.42 |
| 1/1 | 1/1 | 6.35 | 5.81 |
| 1/1 | 1/1 | 4.69 | 4.22 |
| 1/1 | 1/1 | 5.95 | 5.54 |
| 1/1 | 1/1 | 5.1 | 4.74 |
| 0/1 | 1/1 | 5.21 | 4.88 |
| 0/1 | 1/1 | 2.51 | 4.17 |
| 0/1 | 1/1 | 3.29 | 4.97 |
| 0/1 | 1/1 | 2 | 3.73 |
| 1/1 | 1/1 | 5.48 | 7.26 |
| 1/1 | 1/1 | 3.24 | 5.02 |
| 0/1 | 1/1 | 2.46 | 4.28 |
| 0/1 | 1/1 | 4.05 | 5.89 |
| 1/1 | 1/1 | 4.26 | 6.14 |
| 1/1 | 1/1 | 3.69 | 5.61 |
| 0/1 | 1/1 | 3.55 | 5.48 |
| 0/1 | 1/1 | 3.58 | 5.51 |
| 0/1 | 1/1 | 3.77 | 5.73 |
| 1/1 | 1/1 | 4.68 | 6.64 |
| 0/1 | 1/1 | 2.84 | 4.89 |
| 1/1 | 1/1 | 4.47 | 6.54 |
| 0/1 | 1/1 | 2.88 | 5.05 |
| 1/1 | 1/1 | 5.44 | 7.63 |
| 1/1 | 1/1 | 4.86 | 7.06 |
| 1/1 | 1/1 | 3.05 | 5.28 |
| 1/1 | 1/1 | 5.46 | 8 |
| 0/1 | 1/1 | 4.06 | 6.66 |
| 0/1 | 1/1 | 3.2 | 5.87 |
| 1/1 | 1/1 | 3.5 | 6.18 |
| 1/1 | 1/1 | 2.98 | 5.88 |
| 0/1 | 1/1 | 3.79 | 6.7 |
| 1/1 | 1/1 | 6.03 | 5.21 |
| 1/1 | 1/1 | 11.88 | 11.21 |
| 1/1 | 1/1 | 2.99 | 2.68 |
| 1/1 | 1/1 | 5.39 | 5.21 |
| 1/1 | 1/1 | 4.3 | 4.24 |
| 1/1 | 1/1 | 5.07 | 5.15 |
| 1/1 | 1/1 | 8.06 | 8.16 |
| 0/1 | 1/1 | 3.86 | 3.98 |
| 0/1 | 1/1 | 4.2 | 4.54 |
| 0/1 | 1/1 | 3.54 | 6.56 |
| 0/1 | 1/1 | 2.36 | 5.63 |
| 1/1 | 1/1 | 7.36 | 5.16 |
| 1/1 | 1/1 | 5.43 | 3.55 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.35 | 5.64 |
| 1/1 | 1/1 | 5.5 | 4.57 |
| 1/1 | 1/1 | 7.48 | 8.83 |
| 1/1 | 1/1 | 6.44 | 7.84 |
| 1/1 | 1/1 | 3.38 | 4.91 |
| 1/1 | 1/1 | 6.2 | 7.83 |
| 1/1 | 1/1 | 4.15 | 6.31 |
| 1/1 | 0/1 | 5.56 | 4.34 |
| 1/1 | 1/1 | 7.26 | 6.55 |
| 1/1 | 1/1 | 4.17 | 4.11 |
| 1/1 | 1/1 | 7.73 | 7.72 |
| 1/1 | 1/1 | 6.62 | 6.63 |
| 1/1 | 1/1 | 12.77 | 12.8 |
| 1/1 | 1/1 | 4.86 | 5.13 |
| 1/1 | 1/1 | 6.76 | 4.21 |
| 1/1 | 0/1 | 6.02 | 3.65 |
| 1/1 | 0/1 | 4.44 | 2.29 |
| 1/1 | 1/1 | 4.95 | 3.57 |
| 1/1 | 0/1 | 3.34 | 2.23 |
| 1/1 | 1/1 | 4.75 | 3.68 |
| 1/1 | 1/1 | 9.15 | 6.04 |
| 1/1 | 1/1 | 7.85 | 4.74 |
| 1/1 | 1/1 | 7.49 | 4.58 |
| 1/1 | 1/1 | 9.06 | 6.53 |
| 1/1 | 1/1 | 8.4 | 5.98 |
| 1/1 | 1/1 | 8.84 | 6.49 |
| 1/1 | 1/1 | 8.11 | 5.77 |
| 1/1 | 1/1 | 6.43 | 4.26 |
| 1/1 | 1/1 | 5.38 | 3.23 |
| 1/1 | 1/1 | 7.56 | 5.71 |
| 1/1 | 1/1 | 7.88 | 6.11 |
| 1/1 | 1/1 | 7.79 | 6.11 |
| 1/1 | 1/1 | 6.22 | 6.78 |
| 1/1 | 1/1 | 3.62 | 4.38 |
| 1/1 | 1/1 | 6.36 | 5.71 |
| 1/1 | 1/1 | 5.12 | 4.91 |
| 1/1 | 1/1 | 6.21 | 6.03 |
| 1/1 | 1/1 | 4.48 | 4.35 |
| 1/1 | 1/1 | 6.07 | 5.98 |
| 1/1 | 1/1 | 12.44 | 12.52 |
| 1/1 | 1/1 | 4.28 | 4.62 |
| 1/1 | 1/1 | 6.91 | 7.26 |
| 1/1 | 1/1 | 5.9 | 6.24 |
| 1/1 | 1/1 | 7.25 | 7.65 |
| 1/1 | 1/1 | 6.07 | 6.5 |
| 1/1 | 1/1 | 10.49 | 10.95 |
| 1/1 | 1/1 | 8.25 | 8.81 |
| 0/1 | 1/1 | 4.71 | 5.3 |
| 0/1 | 1/1 | 4.41 | 5.07 |
| 1/1 | 1/1 | 5.04 | 5.71 |
| 1/1 | 1/1 | 5.42 | 6.11 |
| 1/1 | 1/1 | 9.31 | 10.05 |
| 0/1 | 1/1 | 6.1 | 6.94 |
| 1/1 | 0/1 | 7.16 | 5.45 |
| 1/1 | 0/1 | 6.77 | 5.77 |
| 1/1 | 1/1 | 9.69 | 8.79 |
| 1/1 | 1/1 | 6.12 | 5.38 |
| 1/1 | 1/1 | 11.44 | 10.74 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.44 | 7.95 |
| 1/1 | 1/1 | 6.49 | 6.04 |
| 1/1 | 1/1 | 6.11 | 5.75 |
| 1/1 | 1/1 | 6.33 | 5.98 |
| 1/1 | 0/1 | 6.21 | 3.85 |
| 1/1 | 1/1 | 6.51 | 5.42 |
| 1/1 | 1/1 | 5.86 | 4.82 |
| 1/1 | 1/1 | 6.39 | 7.74 |
| 1/1 | 0/1 | 7.37 | 5.09 |
| 1/1 | 1/1 | 7.98 | 7.01 |
| 1/1 | 0/1 | 4.73 | 3.83 |
| 1/1 | 1/1 | 9.15 | 4.49 |
| 1/1 | 1/1 | 8.26 | 4.78 |
| 1/1 | 1/1 | 8.12 | 4.74 |
| 1/1 | 0/1 | 6.16 | 2.99 |
| 1/1 | 1/1 | 6.73 | 5.65 |
| 1/1 | 0/1 | 3.33 | 2.29 |
| 1/1 | 1/1 | 3.76 | 2.81 |
| 1/1 | 1/1 | 8.72 | 7.77 |
| 1/1 | 1/1 | 4.75 | 3.87 |
| 1/1 | 1/1 | 8.96 | 8.18 |
| 1/1 | 1/1 | 6.92 | 6.22 |
| 1/1 | 1/1 | 3.81 | 3.24 |
| 1/1 | 1/1 | 7.54 | 7.01 |
| 1/1 | 1/1 | 6.96 | 6.5 |
| 1/1 | 1/1 | 9.39 | 8.95 |
| 1/1 | 1/1 | 8.49 | 8.06 |
| 0/1 | 1/1 | 6.47 | 6.08 |
| 1/1 | 1/1 | 4.73 | 4.33 |
| 1/1 | 1/1 | 6.35 | 5.95 |
| 1/1 | 1/1 | 3.55 | 3.48 |
| 1/1 | 1/1 | 6.38 | 6.32 |
| 1/1 | 1/1 | 6.54 | 6.96 |
| 1/1 | 1/1 | 4.25 | 4.72 |
| 1/1 | 1/1 | 3.81 | 2.18 |
| 1/1 | 0/1 | 5.78 | 4.94 |
| 1/1 | 1/1 | 2.78 | 2.4 |
| 1/1 | 1/1 | 7.9 | 7.57 |
| 1/1 | 1/1 | 4.77 | 6.67 |
| 1/1 | 1/1 | 3.23 | 5.24 |
| 0/1 | 1/1 | 2.14 | 4.21 |
| 1/1 | 1/1 | 4.88 | 7.14 |
| 1/1 | 0/1 | 6.85 | 3.3 |
| 1/1 | 1/1 | 5.42 | 5.44 |
| 1/1 | 1/1 | 12.38 | 12.53 |
| 1/1 | 1/1 | 12.38 | 12.53 |
| 1/1 | 1/1 | 8.81 | 9.39 |
| 1/1 | 1/1 | 7.05 | 6.28 |
| 1/1 | 0/1 | 4.57 | 4.08 |
| 1/1 | 1/1 | 5.11 | 5 |
| 1/1 | 1/1 | 6.54 | 6.44 |
| 1/1 | 1/1 | 5.29 | 5.25 |
| 0/1 | 1/1 | 4.6 | 4.59 |
| 1/1 | 1/1 | 6.98 | 7.07 |
| 1/1 | 1/1 | 6.92 | 7.02 |
| 0/1 | 1/1 | 7.87 | 8.03 |
| 1/1 | 1/1 | 5.25 | 5.42 |
| 0/1 | 1/1 | 4.22 | 4.39 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.54 | 5.73 |
| 0/1 | 1/1 | 7.31 | 7.58 |
| 1/1 | 1/1 | 7.31 | 7.6 |
| 0/1 | 1/1 | 5.2 | 5.56 |
| 0/1 | 1/1 | 6.96 | 7.32 |
| 1/1 | 1/1 | 6.04 | 6.45 |
| 0/1 | 1/1 | 5.98 | 6.4 |
| 1/1 | 1/1 | 7.41 | 7.87 |
| 0/1 | 1/1 | 2.65 | 3.17 |
| 0/1 | 1/1 | 4.66 | 5.23 |
| 1/1 | 1/1 | 6.81 | 7.42 |
| 1/1 | 1/1 | 6.37 | 7.08 |
| 0/1 | 1/1 | 3.3 | 6.41 |
| 0/1 | 1/1 | 4.29 | 7.59 |
| 1/1 | 1/1 | 3.16 | 6.52 |
| 0/1 | 1/1 | 4.2 | 7.67 |
| 0/1 | 1/1 | 3.22 | 6.72 |
| 1/1 | 1/1 | 3.23 | 7.64 |
| 0/1 | 1/1 | 3.79 | 8.29 |
| 0/1 | 1/1 | 3.52 | 8.03 |
| 0/1 | 1/1 | 1.85 | 7.39 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 5.43 | 4.6 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 4.71 | 4.16 |
| 1/1 | 1/1 | 8.47 | 10.71 |
| 0/1 | 1/1 | 5.47 | 7.8 |
| 1/1 | 1/1 | 10.42 | 8.32 |
| 1/1 | 1/1 | 7.25 | 6.56 |
| 1/1 | 0/1 | 7.82 | 2.68 |
| 1/1 | 0/1 | 7.84 | 3.12 |
| 1/1 | 0/1 | 7.53 | 2.81 |
| 1/1 | 0/1 | 8.03 | 3.47 |
| 1/1 | 0/1 | 7.18 | 2.7 |
| 1/1 | 0/1 | 6.66 | 2.32 |
| 1/1 | 1/1 | 9.02 | 4.69 |
| 1/1 | 0/1 | 6.51 | 2.19 |
| 1/1 | 1/1 | 7.13 | 2.81 |
| 1/1 | 1/1 | 7.41 | 3.17 |
| 1/1 | 0/1 | 6.39 | 2.17 |
| 1/1 | 1/1 | 7.54 | 3.33 |
| 1/1 | 1/1 | 7.06 | 3.03 |
| 1/1 | 0/1 | 6.96 | 3.06 |
| 1/1 | 1/1 | 8.09 | 4.21 |
| 1/1 | 1/1 | 8.66 | 4.78 |
| 1/1 | 0/1 | 6.54 | 2.72 |
| 1/1 | 0/1 | 5.43 | 3.78 |
| 1/1 | 0/1 | 4.77 | 3.15 |
| 1/1 | 0/1 | 4.3 | 2.72 |
| 1/1 | 1/1 | 6.15 | 4.62 |
| 1/1 | 1/1 | 9.5 | 7.99 |
| 1/1 | 1/1 | 4.72 | 3.22 |
| 1/1 | 1/1 | 6.29 | 4.79 |
| 1/1 | 0/1 | 4.09 | 2.67 |
| 1/1 | 0/1 | 6.65 | 5.31 |
| 1/1 | 0/1 | 3.5 | 2.17 |
| 1/1 | 0/1 | 4.15 | 2.86 |
| 1/1 | 0/1 | 3.31 | 2.2 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.22 | 3.12 |
| 1/1 | 1/1 | 4.74 | 3.75 |
| 1/1 | 0/1 | 3.56 | 2.58 |
| 1/1 | 0/1 | 4.02 | 3.11 |
| 1/1 | 0/1 | 3.76 | 2.87 |
| 1/1 | 0/1 | 2.94 | 2.09 |
| 1/1 | 0/1 | 2.64 | 1.9 |
| 1/1 | 1/1 | 5.34 | 4.61 |
| 1/1 | 1/1 | 4.84 | 4.14 |
| 1/1 | 0/1 | 2.81 | 2.14 |
| 1/1 | 1/1 | 4.79 | 4.23 |
| 1/1 | 1/1 | 4.54 | 4.16 |
| 1/1 | 1/1 | 3.54 | 3.2 |
| 1/1 | 0/1 | 2.74 | 2.5 |
| 1/1 | 1/1 | 2.95 | 2.73 |
| 1/1 | 1/1 | 8.35 | 8.29 |
| 1/1 | 1/1 | 8.57 | 5.79 |
| 1/1 | 1/1 | 5.45 | 6.25 |
| 1/1 | 1/1 | 6.21 | 4.25 |
| 1/1 | 1/1 | 8.92 | 7.98 |
| 1/1 | 1/1 | 6.9 | 6.16 |
| 1/1 | 0/1 | 5.03 | 2.76 |
| 1/1 | 1/1 | 3.31 | 4.77 |
| 1/1 | 1/1 | 5.44 | 5.18 |
| 0/1 | 1/1 | 6.31 | 6.24 |
| 1/1 | 1/1 | 6.89 | 7.36 |
| 1/1 | 1/1 | 6.66 | 7.23 |
| 0/1 | 1/1 | 4.88 | 5.5 |
| 1/1 | 1/1 | 6.39 | 9.69 |
| 1/1 | 1/1 | 6.27 | 10.98 |
| 1/1 | 1/1 | 5.32 | 3.63 |
| 1/1 | 0/1 | 3.55 | 2.73 |
| 1/1 | 0/1 | 3.3 | 2.71 |
| 1/1 | 1/1 | 10.69 | 10.23 |
| 1/1 | 1/1 | 6.63 | 6.23 |
| 1/1 | 1/1 | 3.56 | 3.17 |
| 1/1 | 1/1 | 3.31 | 2.98 |
| 0/1 | 1/1 | 6.79 | 6.5 |
| 1/1 | 1/1 | 7.15 | 6.93 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 3.85 | 3.24 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 5.75 | 5.4 |
| 1/1 | 1/1 | 6.56 | 6.22 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 4.01 | 3.09 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 5.75 | 5.4 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 6.56 | 6.22 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 5.77 | 4.74 |
| 1/1 | 1/1 | 4.01 | 3.09 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.75 | 5.4 |
| 1/1 | 1/1 | 6.56 | 6.22 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 3.85 | 3.24 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 5.75 | 5.4 |
| 1/1 | 1/1 | 6.56 | 6.22 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 0/1 | 4.52 | 2.76 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 4.71 | 4.16 |
| 1/1 | 1/1 | 4.92 | 4.53 |
| 1/1 | 1/1 | 8.47 | 10.71 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 5.77 | 4.74 |
| 1/1 | 1/1 | 4.01 | 3.09 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.75 | 5.4 |
| 1/1 | 1/1 | 6.56 | 6.22 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 4.01 | 3.09 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 5.75 | 5.4 |
| 1/1 | 1/1 | 6.56 | 6.22 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 1/1 | 8.88 | 7.01 |
| 1/1 | 1/1 | 5 | 4.31 |
| 1/1 | 1/1 | 6.68 | 6.14 |
| 0/1 | 1/1 | 3.28 | 2.86 |
| 1/1 | 0/1 | 3.21 | 1.69 |
| 1/1 | 1/1 | 5.31 | 4.85 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.59 | 8.32 |
| 1/1 | 1/1 | 3.58 | 5.64 |
| 0/1 | 1/1 | 2.49 | 4.58 |
| 1/1 | 1/1 | 3.3 | 5.83 |
| 1/1 | 0/1 | 3.99 | 2.19 |
| 1/1 | 1/1 | 4.72 | 2.94 |
| 1/1 | 1/1 | 3.5 | 2.78 |
| 1/1 | 1/1 | 6.06 | 5.38 |
| 1/1 | 1/1 | 6.96 | 6.36 |
| 1/1 | 0/1 | 3.07 | 2.53 |
| 1/1 | 1/1 | 5.48 | 5.09 |
| 1/1 | 1/1 | 3.88 | 3.5 |
| 0/1 | 1/1 | 4.59 | 6.32 |
| 1/1 | 1/1 | 7.15 | 8.89 |
| 0/1 | 1/1 | 2.99 | 4.8 |
| 1/1 | 1/1 | 5.62 | 7.5 |
| 1/1 | 1/1 | 5.2 | 7.25 |
| 1/1 | 1/1 | 5.49 | 7.57 |
| 0/1 | 1/1 | 3.14 | 5.26 |
| 1/1 | 1/1 | 5.44 | 7.6 |
| 1/1 | 1/1 | 6.75 | 8.94 |
| 0/1 | 1/1 | 4.49 | 7.16 |
| 0/1 | 1/1 | 3.4 | 6.09 |
| 1/1 | 1/1 | 4.73 | 7.46 |
| 0/1 | 1/1 | 2.83 | 6.21 |
| 1/1 | 0/1 | 4.99 | 3.39 |
| 1/1 | 1/1 | 4.68 | 3.81 |
| 1/1 | 1/1 | 6.64 | 5.9 |
| 1/1 | 0/1 | 2.89 | 2.18 |
| 1/1 | 1/1 | 5.69 | 5.48 |
| 1/1 | 0/1 | 7.56 | 3.52 |
| 1/1 | 1/1 | 9.02 | 5.57 |
| 1/1 | 1/1 | 7.26 | 4.02 |
| 1/1 | 1/1 | 10.18 | 6.96 |
| 1/1 | 1/1 | 8.63 | 5.58 |
| 1/1 | 1/1 | 8.51 | 5.53 |
| 1/1 | 1/1 | 10.53 | 7.59 |
| 1/1 | 1/1 | 10.9 | 7.97 |
| 1/1 | 1/1 | 10.43 | 7.54 |
| 1/1 | 1/1 | 7.58 | 4.76 |
| 1/1 | 1/1 | 9.41 | 9.02 |
| 1/1 | 1/1 | 8.32 | 8.3 |
| 0/1 | 1/1 | 3.69 | 3.06 |
| 1/1 | 1/1 | 7.68 | 7.75 |
| 1/1 | 1/1 | 10.2 | 10.34 |
| 0/1 | 1/1 | 7.48 | 7.67 |
| 1/1 | 1/1 | 7.83 | 8.27 |
| 1/1 | 1/1 | 5.88 | 6.42 |
| 0/1 | 1/1 | 2.79 | 3.37 |
| 1/1 | 1/1 | 10.02 | 10.69 |
| 1/1 | 1/1 | 6.88 | 7.62 |
| 0/1 | 1/1 | 3.57 | 6.6 |
| 1/1 | 1/1 | 4.69 | 7.89 |
| 1/1 | 0/1 | 5.93 | 2.52 |
| 1/1 | 1/1 | 5.38 | 3.34 |
| 1/1 | 1/1 | 8.07 | 8.3 |
| 1/1 | 0/1 | 3.01 | 2.51 |
| 0/1 | 1/1 | 2.57 | 2.47 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 8.26 | 8.18 |
| 0/1 | 1/1 | 2.09 | 2.32 |
| 1/1 | 1/1 | 5.96 | 6.2 |
| 0/1 | 1/1 | 2.53 | 2.8 |
| 0/1 | 1/1 | 2.1 | 2.54 |
| 1/1 | 1/1 | 3.73 | 4.28 |
| 1/1 | 1/1 | 5.8 | 6.5 |
| 0/1 | 1/1 | 2.74 | 3.44 |
| 0/1 | 1/1 | 3.34 | 4.15 |
| 0/1 | 1/1 | 3.58 | 6.72 |
| 0/1 | 1/1 | 2.93 | 6.5 |
| 0/1 | 1/1 | 2.17 | 6.03 |
| 1/1 | 1/1 | 6.73 | 4.82 |
| 1/1 | 1/1 | 4.28 | 3.72 |
| 1/1 | 1/1 | 5.16 | 4.65 |
| 1/1 | 1/1 | 5.08 | 4.58 |
| 1/1 | 1/1 | 3.35 | 5.03 |
| 0/1 | 1/1 | 3.27 | 5.16 |
| 0/1 | 1/1 | 3.59 | 5.53 |
| 0/1 | 1/1 | 3.59 | 5.61 |
| 1/1 | 1/1 | 5.89 | 4.22 |
| 1/1 | 1/1 | 5.54 | 4.38 |
| 1/1 | 0/1 | 6.18 | 5.19 |
| 1/1 | 0/1 | 4.11 | 3.27 |
| 1/1 | 0/1 | 3.66 | 2.9 |
| 1/1 | 0/1 | 3.49 | 2.81 |
| 1/1 | 1/1 | 3.76 | 3.11 |
| 1/1 | 1/1 | 4.44 | 3.81 |
| 1/1 | 1/1 | 5.63 | 5.15 |
| 1/1 | 1/1 | 4.64 | 4.29 |
| 1/1 | 1/1 | 2.88 | 2.59 |
| 1/1 | 1/1 | 4.81 | 4.53 |
| 1/1 | 1/1 | 6.37 | 4.38 |
| 1/1 | 1/1 | 6.86 | 5.75 |
| 1/1 | 1/1 | 9.49 | 8.64 |
| 1/1 | 1/1 | 4.63 | 3.91 |
| 1/1 | 1/1 | 3.24 | 5.27 |
| 1/1 | 0/1 | 4.29 | 2.6 |
| 1/1 | 1/1 | 8.62 | 7.92 |
| 1/1 | 1/1 | 6.74 | 6.21 |
| 1/1 | 1/1 | 8.44 | 7.96 |
| 0/1 | 1/1 | 2.72 | 4.87 |
| 0/1 | 1/1 | 2.43 | 4.59 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 0/1 | 1/1 | 7.55 | 7.31 |
| 1/1 | 1/1 | 8.5 | 8.37 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.59 | 5.85 |
| 1/1 | 1/1 | 6.41 | 6.86 |
| 0/1 | 1/1 | 5.45 | 6.13 |
| 0/1 | 1/1 | 2.15 | 3.27 |
| 1/1 | 1/1 | 2.88 | 6.36 |
| 1/1 | 1/1 | 5.33 | 9.1 |
| 1/1 | 0/1 | 3.16 | 1.85 |
| 1/1 | 1/1 | 9.1 | 8.71 |
| 1/1 | 1/1 | 11.4 | 11.08 |
| 0/1 | 1/1 | 5.6 | 5.35 |
| 1/1 | 1/1 | 9.87 | 9.66 |
| 1/1 | 1/1 | 7.62 | 7.58 |
| 1/1 | 1/1 | 5.45 | 5.49 |
| 1/1 | 1/1 | 3.67 | 6.28 |
| 1/1 | 0/1 | 3.8 | 2.21 |
| 1/1 | 1/1 | 6.58 | 5.98 |
| 1/1 | 1/1 | 8.34 | 7.77 |
| 1/1 | 1/1 | 3.48 | 3.3 |
| 1/1 | 1/1 | 5.18 | 7.03 |
| 0/1 | 1/1 | 2.53 | 4.53 |
| 0/1 | 1/1 | 3.8 | 5.8 |
| 1/1 | 0/1 | 6.06 | 1.83 |
| 1/1 | 0/1 | 6.36 | 2.57 |
| 1/1 | 0/1 | 6.73 | 3.06 |
| 1/1 | 1/1 | 6.37 | 3.56 |
| 1/1 | 1/1 | 4.93 | 4.21 |
| 1/1 | 1/1 | 5.27 | 4.9 |
| 0/1 | 1/1 | 2.69 | 2.71 |
| 1/1 | 1/1 | 11.59 | 11.75 |
| 0/1 | 1/1 | 2.27 | 2.47 |
| 1/1 | 1/1 | 7.54 | 5.62 |
| 1/1 | 1/1 | 6 | 5.25 |
| 1/1 | 1/1 | 3.87 | 3.2 |
| 1/1 | 1/1 | 6.3 | 5.72 |
| 1/1 | 1/1 | 6.94 | 6.36 |
| 1/1 | 0/1 | 5.52 | 3.88 |
| 1/1 | 1/1 | 5.71 | 4.72 |
| 1/1 | 1/1 | 6.83 | 6.42 |
| 0/1 | 1/1 | 5.96 | 5.68 |
| 0/1 | 1/1 | 6.02 | 7.91 |
| 1/1 | 1/1 | 5.33 | 7.41 |
| 1/1 | 1/1 | 5.24 | 7.66 |
| 0/1 | 1/1 | 3.48 | 5.98 |
| 1/1 | 1/1 | 3.63 | 7.07 |
| 0/1 | 1/1 | 1.99 | 6.47 |
| 1/1 | 1/1 | 9.86 | 8.83 |
| 1/1 | 1/1 | 11.63 | 10.71 |
| 1/1 | 1/1 | 8.1 | 7.85 |
| 1/1 | 1/1 | 4.5 | 4.26 |
| 1/1 | 0/1 | 2.11 | 1.88 |
| 1/1 | 1/1 | 5.14 | 8.24 |
| 0/1 | 1/1 | 3.49 | 7.55 |
| 1/1 | 1/1 | 6.79 | 6.3 |
| 1/1 | 1/1 | 8.53 | 8.11 |
| 0/1 | 1/1 | 2.07 | 2.67 |
| 1/1 | 1/1 | 6.51 | 7.4 |
| 1/1 | 1/1 | 6.63 | 5.64 |
| 1/1 | 1/1 | 4.58 | 4.4 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.04 | 4.88 |
| 1/1 | 1/1 | 8.24 | 8.13 |
| 0/1 | 1/1 | 6.52 | 6.48 |
| 1/1 | 1/1 | 2.31 | 2.42 |
| 1/1 | 1/1 | 5.79 | 6.13 |
| 1/1 | 1/1 | 4.43 | 4.83 |
| 1/1 | 1/1 | 4.34 | 7.23 |
| 1/1 | 1/1 | 5.1 | 8.21 |
| 1/1 | 1/1 | 5.03 | 8.71 |
| 0/1 | 1/1 | 4.1 | 7.98 |
| 1/1 | 1/1 | 4 | 2.9 |
| 1/1 | 1/1 | 8.96 | 8.62 |
| 1/1 | 1/1 | 11.65 | 11.41 |
| 0/1 | 1/1 | 5.04 | 4.88 |
| 1/1 | 1/1 | 6.02 | 5.91 |
| 1/1 | 1/1 | 6.94 | 6.98 |
| 1/1 | 1/1 | 6.38 | 6.43 |
| 1/1 | 1/1 | 8.27 | 8.33 |
| 1/1 | 1/1 | 8.54 | 8.81 |
| 0/1 | 1/1 | 2.49 | 2.77 |
| 1/1 | 0/1 | 4.6 | 3.31 |
| 0/1 | 1/1 | 5.76 | 5.4 |
| 0/1 | 1/1 | 5.88 | 5.89 |
| 1/1 | 1/1 | 6.42 | 6.51 |
| 1/1 | 0/1 | 6.62 | 3.22 |
| 1/1 | 1/1 | 6.9 | 4.29 |
| 1/1 | 1/1 | 5.01 | 5.06 |
| 1/1 | 1/1 | 7.31 | 6.05 |
| 1/1 | 1/1 | 8.63 | 7.73 |
| 1/1 | 1/1 | 9.18 | 8.65 |
| 1/1 | 1/1 | 4.88 | 4.38 |
| 1/1 | 1/1 | 4.98 | 4.56 |
| 0/1 | 1/1 | 6.63 | 6.34 |
| 0/1 | 1/1 | 3.07 | 2.79 |
| 1/1 | 1/1 | 2.91 | 2.66 |
| 1/1 | 1/1 | 6.53 | 6.29 |
| 1/1 | 1/1 | 6.14 | 5.97 |
| 1/1 | 1/1 | 9.44 | 9.33 |
| 0/1 | 1/1 | 2.39 | 2.28 |
| 1/1 | 1/1 | 5.61 | 5.55 |
| 0/1 | 1/1 | 2.91 | 2.85 |
| 1/1 | 1/1 | 6.23 | 6.17 |
| 1/1 | 1/1 | 12.69 | 12.68 |
| 1/1 | 1/1 | 5.48 | 5.51 |
| 0/1 | 1/1 | 4.59 | 4.64 |
| 1/1 | 1/1 | 4.9 | 4.95 |
| 1/1 | 1/1 | 9.08 | 9.17 |
| 0/1 | 1/1 | 6.83 | 6.98 |
| 1/1 | 1/1 | 6.16 | 4.89 |
| 1/1 | 0/1 | 2.55 | 2.19 |
| 1/1 | 1/1 | 3.76 | 3.53 |
| 0/1 | 1/1 | 3.57 | 3.39 |
| 1/1 | 1/1 | 9.47 | 9.32 |
| 0/1 | 1/1 | 2.84 | 2.73 |
| 0/1 | 1/1 | 2.95 | 2.85 |
| 1/1 | 1/1 | 4.1 | 4.09 |
| 1/1 | 1/1 | 8.03 | 8.1 |
| 0/1 | 1/1 | 3.6 | 3.68 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 2.39 | 2.52 |
| 1/1 | 1/1 | 3.83 | 3.97 |
| 1/1 | 1/1 | 3.73 | 5.97 |
| 0/1 | 1/1 | 2.67 | 4.96 |
| 1/1 | 0/1 | 5.62 | 2.46 |
| 1/1 | 1/1 | 4.31 | 4.6 |
| 0/1 | 1/1 | 3.51 | 3.8 |
| 1/1 | 1/1 | 6.58 | 6.9 |
| 1/1 | 1/1 | 5.35 | 5.82 |
| 1/1 | 1/1 | 3.65 | 4.17 |
| 1/1 | 1/1 | 4.41 | 5.02 |
| 1/1 | 1/1 | 4.64 | 5.36 |
| 1/1 | 1/1 | 4.65 | 5.51 |
| 1/1 | 1/1 | 5.89 | 6.86 |
| 0/1 | 1/1 | 3.83 | 5.06 |
| 1/1 | 1/1 | 11.79 | 9.6 |
| 1/1 | 1/1 | 5.74 | 4.78 |
| 1/1 | 1/1 | 6.28 | 5.35 |
| 1/1 | 0/1 | 4.08 | 2.31 |
| 1/1 | 1/1 | 4.21 | 6.04 |
| 1/1 | 1/1 | 8.52 | 3.3 |
| 1/1 | 0/1 | 8.04 | 2.83 |
| 1/1 | 0/1 | 7.53 | 2.41 |
| 1/1 | 0/1 | 8.47 | 3.7 |
| 1/1 | 1/1 | 8.56 | 4.02 |
| 1/1 | 0/1 | 7.45 | 2.95 |
| 1/1 | 1/1 | 7.92 | 3.82 |
| 1/1 | 0/1 | 7.02 | 3.01 |
| 1/1 | 1/1 | 8.35 | 4.39 |
| 1/1 | 0/1 | 6.42 | 2.51 |
| 1/1 | 0/1 | 6.21 | 2.39 |
| 1/1 | 1/1 | 7.28 | 5.63 |
| 1/1 | 0/1 | 3.5 | 1.99 |
| 1/1 | 0/1 | 4.2 | 2.72 |
| 1/1 | 1/1 | 7.61 | 6.23 |
| 1/1 | 0/1 | 4.41 | 3.07 |
| 1/1 | 0/1 | 3.39 | 2.21 |
| 1/1 | 1/1 | 4.37 | 3.33 |
| 1/1 | 0/1 | 4.18 | 3.27 |
| 1/1 | 0/1 | 2.81 | 1.94 |
| 1/1 | 1/1 | 7.3 | 6.47 |
| 1/1 | 0/1 | 3.63 | 2.85 |
| 1/1 | 1/1 | 4.4 | 3.69 |
| 1/1 | 1/1 | 7.54 | 6.84 |
| 1/1 | 0/1 | 2.61 | 1.92 |
| 1/1 | 0/1 | 6.94 | 6.31 |
| 1/1 | 0/1 | 3.04 | 2.56 |
| 1/1 | 1/1 | 4.56 | 4.48 |
| 1/1 | 1/1 | 4.92 | 4.9 |
| 1/1 | 1/1 | 6.33 | 6.45 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 1/1 | 1/1 | 7.78 | 8.5 |
| 0/1 | 1/1 | 5.75 | 6.52 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 1/1 | 1/1 | 5.94 | 4.7 |
| 0/1 | 1/1 | 4.5 | 3.85 |
| 1/1 | 1/1 | 8.2 | 7.76 |
| 1/1 | 0/1 | 2.09 | 1.85 |
| 1/1 | 1/1 | 7.56 | 7.41 |
| 1/1 | 1/1 | 3.14 | 3.11 |
| 0/1 | 1/1 | 6.07 | 6.12 |
| 1/1 | 1/1 | 3.84 | 6.39 |
| 0/1 | 1/1 | 2.88 | 5.51 |
| 1/1 | 1/1 | 4.17 | 7.25 |
| 1/1 | 0/1 | 4.46 | 2.48 |
| 1/1 | 1/1 | 7.99 | 6.14 |
| 1/1 | 1/1 | 6 | 5.13 |
| 1/1 | 1/1 | 4.54 | 3.83 |
| 1/1 | 1/1 | 4.07 | 3.5 |
| 1/1 | 1/1 | 3.51 | 5.06 |
| 1/1 | 1/1 | 4.09 | 5.65 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 1/1 | 1/1 | 7.78 | 8.5 |
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 1/1 | 1/1 | 9.33 | 3.47 |
| 1/1 | 0/1 | 8.44 | 2.61 |
| 1/1 | 0/1 | 8.69 | 2.94 |
| 1/1 | 0/1 | 8.71 | 3.05 |
| 1/1 | 0/1 | 7.92 | 2.79 |
| 1/1 | 0/1 | 7.45 | 2.35 |
| 1/1 | 1/1 | 9.33 | 4.31 |
| 1/1 | 0/1 | 8.6 | 3.85 |
| 1/1 | 1/1 | 7.78 | 3.26 |
| 1/1 | 0/1 | 6.82 | 2.32 |
| 1/1 | 0/1 | 6.32 | 1.84 |
| 1/1 | 1/1 | 8.77 | 4.29 |
| 1/1 | 1/1 | 7.4 | 2.95 |
| 1/1 | 0/1 | 6.84 | 2.4 |
| 1/1 | 1/1 | 9.3 | 6.95 |
| 1/1 | 0/1 | 4.61 | 2.39 |
| 1/1 | 0/1 | 4.24 | 2.03 |
| 1/1 | 0/1 | 4.57 | 2.38 |
| 1/1 | 1/1 | 5.35 | 3.34 |
| 1/1 | 1/1 | 4.48 | 2.65 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.42 | 3.6 |
| 1/1 | 0/1 | 4.25 | 2.47 |
| 1/1 | 0/1 | 5.58 | 3.86 |
| 1/1 | 0/1 | 5.86 | 4.19 |
| 1/1 | 1/1 | 5.55 | 4.05 |
| 1/1 | 1/1 | 8.41 | 6.96 |
| 1/1 | 1/1 | 4.13 | 2.69 |
| 1/1 | 0/1 | 4.74 | 3.34 |
| 1/1 | 1/1 | 8.19 | 6.88 |
| 1/1 | 0/1 | 3.41 | 2.32 |
| 1/1 | 1/1 | 6.42 | 5.45 |
| 1/1 | 0/1 | 3.41 | 2.44 |
| 1/1 | 0/1 | 3.42 | 2.55 |
| 1/1 | 1/1 | 6.51 | 5.84 |
| 1/1 | 1/1 | 6.65 | 6 |
| 1/1 | 1/1 | 3.47 | 2.85 |
| 1/1 | 0/1 | 2.9 | 2.29 |
| 1/1 | 1/1 | 9.21 | 8.62 |
| 1/1 | 0/1 | 2.84 | 2.37 |
| 1/1 | 1/1 | 10.39 | 9.94 |
| 1/1 | 1/1 | 6.75 | 6.41 |
| 1/1 | 1/1 | 3.79 | 3.55 |
| 0/1 | 1/1 | 2.9 | 2.95 |
| 1/1 | 0/1 | 2.77 | 2.83 |
| 1/1 | 1/1 | 6.28 | 6.37 |
| 1/1 | 1/1 | 10.95 | 11.09 |
| 1/1 | 1/1 | 8.41 | 8.65 |
| 1/1 | 1/1 | 8.61 | 8.93 |
| 0/1 | 1/1 | 4.39 | 4.84 |
| 1/1 | 1/1 | 5.64 | 2.92 |
| 1/1 | 1/1 | 3.31 | 4.15 |
| 1/1 | 1/1 | 5.21 | 5.85 |
| 1/1 | 1/1 | 5.76 | 7.03 |
| 0/1 | 1/1 | 3.74 | 5.13 |
| 1/1 | 1/1 | 4.48 | 5.93 |
| 1/1 | 1/1 | 7.95 | 9.6 |
| 1/1 | 1/1 | 3.74 | 5.49 |
| 1/1 | 1/1 | 10.35 | 6.35 |
| 1/1 | 0/1 | 7.39 | 3.51 |
| 1/1 | 1/1 | 8.63 | 5.5 |
| 1/1 | 1/1 | 8.2 | 7.65 |
| 1/1 | 1/1 | 8.09 | 7.85 |
| 1/1 | 1/1 | 8.28 | 8.04 |
| 1/1 | 1/1 | 8.8 | 8.53 |
| 1/1 | 1/1 | 8.35 | 8.61 |
| 1/1 | 1/1 | 5.16 | 5.79 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 1/1 | 1/1 | 7.78 | 8.5 |
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 1/1 | 1/1 | 7.78 | 8.5 |
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 1/1 | 1/1 | 7.78 | 8.5 |
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 1/1 | 0/1 | 7.63 | 4.92 |
| 1/1 | 1/1 | 11.27 | 9.58 |
| 1/1 | 1/1 | 8.47 | 6.87 |
| 1/1 | 1/1 | 8.87 | 7.3 |
| 1/1 | 0/1 | 6.7 | 5.29 |
| 1/1 | 0/1 | 7.73 | 6.4 |
| 1/1 | 1/1 | 7.78 | 8.5 |
| 0/1 | 1/1 | 5.06 | 5.91 |
| 0/1 | 1/1 | 6.02 | 6.88 |
| 1/1 | 1/1 | 4 | 4.89 |
| 1/1 | 1/1 | 7.54 | 8.58 |
| 0/1 | 1/1 | 5.46 | 6.67 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3 | 5.23 |
| 1/1 | 0/1 | 5.53 | 4.03 |
| 1/1 | 0/1 | 5.53 | 4.2 |
| 1/1 | 1/1 | 8.28 | 7.32 |
| 1/1 | 1/1 | 6.83 | 6.13 |
| 1/1 | 1/1 | 6.4 | 5.79 |
| 1/1 | 1/1 | 5.95 | 5.37 |
| 0/1 | 1/1 | 5.09 | 4.67 |
| 1/1 | 1/1 | 6.25 | 5.84 |
| 1/1 | 1/1 | 11.96 | 11.6 |
| 1/1 | 1/1 | 11.67 | 11.31 |
| 1/1 | 1/1 | 6.64 | 6.29 |
| 1/1 | 1/1 | 6.36 | 6.07 |
| 1/1 | 1/1 | 6.83 | 6.66 |
| 1/1 | 1/1 | 4.46 | 4.29 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.22 | 6.07 |
| 1/1 | 1/1 | 7.02 | 6.88 |
| 0/1 | 1/1 | 3.51 | 5.88 |
| 0/1 | 1/1 | 4.21 | 6.8 |
| 1/1 | 1/1 | 6.94 | 6.68 |
| 1/1 | 1/1 | 2.47 | 2.26 |
| 1/1 | 1/1 | 4.15 | 3.94 |
| 0/1 | 1/1 | 2.98 | 3.13 |
| 1/1 | 1/1 | 6.36 | 6.54 |
| 1/1 | 1/1 | 3.06 | 3.33 |
| 0/1 | 1/1 | 2.38 | 2.72 |
| 1/1 | 1/1 | 5.21 | 5.59 |
| 1/1 | 1/1 | 8.65 | 9.23 |
| 1/1 | 1/1 | 3.12 | 3.71 |
| 0/1 | 1/1 | 2.95 | 3.55 |
| 0/1 | 1/1 | 1.93 | 2.57 |
| 0/1 | 1/1 | 3.06 | 3.71 |
| 1/1 | 1/1 | 3.86 | 4.57 |
| 1/1 | 1/1 | 3.32 | 4.08 |
| 1/1 | 1/1 | 9.2 | 10.06 |
| 1/1 | 1/1 | 5.26 | 6.25 |
| 0/1 | 1/1 | 2.56 | 3.57 |
| 1/1 | 1/1 | 7.51 | 8.57 |
| 1/1 | 0/1 | 3.79 | 2.45 |
| 1/1 | 1/1 | 7.22 | 7.03 |
| 1/1 | 1/1 | 4.31 | 4.14 |
| 0/1 | 1/1 | 8.13 | 7.98 |
| 0/1 | 1/1 | 2.71 | 2.65 |
| 1/1 | 1/1 | 6.53 | 6.48 |
| 1/1 | 1/1 | 8.41 | 8.4 |
| 1/1 | 1/1 | 7.71 | 7.73 |
| 1/1 | 1/1 | 5.13 | 7.34 |
| 1/1 | 1/1 | 10.03 | 8.23 |
| 1/1 | 1/1 | 7.34 | 6.59 |
| 1/1 | 1/1 | 4.74 | 6.38 |
| 0/1 | 1/1 | 2.2 | 4.37 |
| 1/1 | 1/1 | 8.81 | 7.5 |
| 1/1 | 1/1 | 8.81 | 7.63 |
| 1/1 | 1/1 | 4.45 | 4.09 |
| 1/1 | 1/1 | 8.41 | 8.15 |
| 1/1 | 1/1 | 6.42 | 6.33 |
| 0/1 | 1/1 | 2.36 | 4.5 |
| 1/1 | 1/1 | 5.19 | 4.19 |
| 1/1 | 1/1 | 7.98 | 7.56 |
| 1/1 | 1/1 | 7.6 | 7.62 |
| 0/1 | 1/1 | 8.02 | 8.22 |
| 1/1 | 1/1 | 4.82 | 5.15 |
| 1/1 | 1/1 | 7.17 | 7.53 |
| 1/1 | 1/1 | 8.53 | 8.23 |
| 1/1 | 1/1 | 6.47 | 6.21 |
| 1/1 | 1/1 | 8.13 | 7.95 |
| 1/1 | 1/1 | 7.03 | 7.07 |
| 1/1 | 1/1 | 6.95 | 7.24 |
| 0/1 | 1/1 | 2.84 | 3.61 |
| 0/1 | 1/1 | 2.71 | 5.85 |
| 1/1 | 1/1 | 3.73 | 7.48 |
| 1/1 | 1/1 | 4.87 | 3.7 |
| 1/1 | 1/1 | 3.29 | 2.64 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.05 | 8.45 |
| 1/1 | 1/1 | 7.98 | 7.58 |
| 1/1 | 1/1 | 11.43 | 11.17 |
| 1/1 | 1/1 | 7.3 | 7.03 |
| 1/1 | 1/1 | 3.11 | 2.92 |
| 1/1 | 1/1 | 5.18 | 5 |
| 1/1 | 1/1 | 4.72 | 4.58 |
| 1/1 | 1/1 | 2.28 | 2.19 |
| 1/1 | 1/1 | 9.48 | 9.42 |
| 0/1 | 1/1 | 7.13 | 7.1 |
| 0/1 | 1/1 | 3.34 | 3.33 |
| 1/1 | 1/1 | 6.08 | 6.12 |
| 1/1 | 1/1 | 6.86 | 6.97 |
| 1/1 | 1/1 | 9.4 | 9.51 |
| 1/1 | 1/1 | 5.29 | 5.45 |
| 0/1 | 1/1 | 2.56 | 2.76 |
| 1/1 | 1/1 | 5.13 | 5.35 |
| 0/1 | 1/1 | 3.3 | 5.65 |
| 1/1 | 1/1 | 4.85 | 7.21 |
| 0/1 | 1/1 | 1.76 | 5.4 |
| 1/1 | 1/1 | 2.78 | 7.16 |
| 1/1 | 0/1 | 8.29 | 4.97 |
| 1/1 | 1/1 | 6.12 | 3.31 |
| 1/1 | 1/1 | 8.74 | 6.01 |
| 1/1 | 0/1 | 5.04 | 2.65 |
| 1/1 | 0/1 | 4.67 | 2.67 |
| 1/1 | 1/1 | 9.72 | 9.53 |
| 0/1 | 1/1 | 3.91 | 3.78 |
| 0/1 | 1/1 | 2.67 | 2.83 |
| 1/1 | 1/1 | 5.9 | 6.33 |
| 1/1 | 1/1 | 5.19 | 5.81 |
| 1/1 | 1/1 | 8.6 | 9.38 |
| 1/1 | 1/1 | 2.58 | 3.65 |
| 1/1 | 1/1 | 5.18 | 6.29 |
| 1/1 | 1/1 | 4.71 | 3.97 |
| 1/1 | 1/1 | 4.77 | 4.34 |
| 0/1 | 1/1 | 4.43 | 4.51 |
| 1/1 | 1/1 | 3.91 | 4.11 |
| 1/1 | 1/1 | 9.92 | 10.17 |
| 1/1 | 1/1 | 6.91 | 7.28 |
| 1/1 | 1/1 | 6.75 | 7.34 |
| 0/1 | 1/1 | 2.57 | 3.17 |
| 1/1 | 1/1 | 3.36 | 6.07 |
| 0/1 | 1/1 | 2.92 | 5.93 |
| 1/1 | 0/1 | 5.67 | 4.29 |
| 1/1 | 1/1 | 8.3 | 7.47 |
| 1/1 | 1/1 | 4.69 | 3.91 |
| 1/1 | 1/1 | 4.25 | 3.88 |
| 1/1 | 1/1 | 5.79 | 5.44 |
| 1/1 | 1/1 | 7.85 | 7.54 |
| 1/1 | 1/1 | 9.33 | 9.16 |
| 1/1 | 1/1 | 6.17 | 6.03 |
| 1/1 | 1/1 | 4.93 | 4.82 |
| 1/1 | 1/1 | 9.61 | 9.52 |
| 1/1 | 1/1 | 8.61 | 8.58 |
| 1/1 | 1/1 | 3.89 | 3.88 |
| 1/1 | 1/1 | 3 | 5.16 |
| 0/1 | 1/1 | 3.38 | 5.58 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.37 | 6.6 |
| 0/1 | 1/1 | 2.04 | 4.97 |
| 1/1 | 1/1 | 8.92 | 5.65 |
| 1/1 | 1/1 | 10.76 | 8.2 |
| 1/1 | 1/1 | 6.61 | 4.35 |
| 1/1 | 1/1 | 6.47 | 4.26 |
| 1/1 | 1/1 | 10.19 | 8.06 |
| 1/1 | 1/1 | 8.71 | 6.83 |
| 1/1 | 1/1 | 6.11 | 4.4 |
| 1/1 | 0/1 | 4.92 | 3.5 |
| 1/1 | 0/1 | 6.6 | 5.3 |
| 1/1 | 1/1 | 5.58 | 4.98 |
| 1/1 | 1/1 | 8.68 | 8.12 |
| 1/1 | 1/1 | 5.15 | 4.68 |
| 1/1 | 1/1 | 8.71 | 8.34 |
| 1/1 | 1/1 | 9.15 | 8.81 |
| 1/1 | 1/1 | 7.14 | 5.51 |
| 1/1 | 1/1 | 7.78 | 7.26 |
| 1/1 | 1/1 | 6.6 | 6.19 |
| 1/1 | 1/1 | 5.95 | 5.59 |
| 1/1 | 1/1 | 6.41 | 6.09 |
| 1/1 | 1/1 | 6.31 | 6.07 |
| 1/1 | 0/1 | 7.64 | 2.82 |
| 1/1 | 1/1 | 7.97 | 3.66 |
| 1/1 | 1/1 | 7.16 | 5.83 |
| 1/1 | 0/1 | 4.64 | 3.54 |
| 1/1 | 1/1 | 6.16 | 5.48 |
| 1/1 | 1/1 | 6.58 | 6.41 |
| 1/1 | 1/1 | 9.74 | 9.78 |
| 1/1 | 1/1 | 6.61 | 6.85 |
| 1/1 | 1/1 | 4.56 | 4.99 |
| 1/1 | 0/1 | 10.69 | 2.86 |
| 1/1 | 0/1 | 9.84 | 2.9 |
| 1/1 | 0/1 | 10.64 | 3.71 |
| 1/1 | 1/1 | 9.65 | 2.94 |
| 1/1 | 0/1 | 9.09 | 2.37 |
| 1/1 | 0/1 | 10.85 | 4.31 |
| 1/1 | 0/1 | 7.98 | 3.82 |
| 1/1 | 0/1 | 6.34 | 2.2 |
| 1/1 | 1/1 | 9.84 | 5.86 |
| 1/1 | 1/1 | 9.25 | 5.31 |
| 1/1 | 1/1 | 8.23 | 4.29 |
| 1/1 | 0/1 | 6.75 | 3.21 |
| 1/1 | 1/1 | 7.34 | 3.82 |
| 1/1 | 1/1 | 7.9 | 4.38 |
| 1/1 | 0/1 | 5.96 | 2.44 |
| 1/1 | 0/1 | 7.36 | 4.24 |
| 1/1 | 0/1 | 7.44 | 4.51 |
| 1/1 | 1/1 | 5.87 | 3.09 |
| 1/1 | 1/1 | 8.79 | 6.03 |
| 1/1 | 0/1 | 5.94 | 3.23 |
| 1/1 | 0/1 | 4.79 | 2.24 |
| 1/1 | 1/1 | 10.19 | 8.47 |
| 1/1 | 1/1 | 9.16 | 7.75 |
| 1/1 | 1/1 | 7.88 | 6.76 |
| 1/1 | 1/1 | 7.6 | 6.63 |
| 1/1 | 1/1 | 6.16 | 5.3 |
| 1/1 | 0/1 | 2.84 | 2.17 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.41 | 5.16 |
| 1/1 | 1/1 | 7.08 | 6.41 |
| 1/1 | 1/1 | 8.02 | 7.5 |
| 1/1 | 1/1 | 5.76 | 5.48 |
| 1/1 | 0/1 | 3.58 | 3.31 |
| 1/1 | 1/1 | 4.55 | 4.31 |
| 0/1 | 1/1 | 5.45 | 5.24 |
| 1/1 | 1/1 | 3.94 | 3.8 |
| 1/1 | 1/1 | 6.29 | 6.15 |
| 0/1 | 1/1 | 3.64 | 3.59 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 1/1 | 1/1 | 5.22 | 7.7 |
| 1/1 | 1/1 | 4.51 | 7.87 |
| 0/1 | 1/1 | 4 | 7.54 |
| 1/1 | 1/1 | 3.59 | 8.09 |
| 0/1 | 1/1 | 1.69 | 6.25 |
| 1/1 | 0/1 | 4.64 | 2.39 |
| 1/1 | 0/1 | 3.67 | 2.36 |
| 1/1 | 1/1 | 7.98 | 6.88 |
| 1/1 | 1/1 | 8.69 | 7.8 |
| 1/1 | 1/1 | 4.95 | 4.05 |
| 1/1 | 1/1 | 8.46 | 4.59 |
| 1/1 | 1/1 | 9.05 | 5.78 |
| 1/1 | 1/1 | 7.82 | 4.7 |
| 1/1 | 1/1 | 9.2 | 6.2 |
| 1/1 | 1/1 | 9.85 | 6.87 |
| 1/1 | 1/1 | 9.11 | 6.2 |
| 1/1 | 1/1 | 8.86 | 5.96 |
| 1/1 | 1/1 | 10.33 | 7.47 |
| 1/1 | 1/1 | 10.22 | 7.64 |
| 1/1 | 1/1 | 9.09 | 6.55 |
| 1/1 | 1/1 | 8.52 | 5.99 |
| 1/1 | 1/1 | 9.61 | 7.1 |
| 1/1 | 1/1 | 13.19 | 12.7 |
| 1/1 | 1/1 | 13.59 | 13.11 |
| 1/1 | 1/1 | 13.41 | 12.94 |
| 1/1 | 1/1 | 12.94 | 12.53 |
| 1/1 | 1/1 | 13.54 | 13.16 |
| 1/1 | 1/1 | 12.75 | 12.4 |
| 1/1 | 1/1 | 13.3 | 12.99 |
| 1/1 | 1/1 | 13.36 | 13.06 |
| 1/1 | 1/1 | 13.42 | 13.18 |
| 1/1 | 1/1 | 13.03 | 12.8 |
| 1/1 | 1/1 | 13.37 | 13.15 |
| 1/1 | 1/1 | 12.97 | 12.92 |
| 1/1 | 1/1 | 6.88 | 6.85 |
| 1/1 | 0/1 | 4.14 | 3.02 |
| 1/1 | 1/1 | 4.1 | 3.49 |
| 1/1 | 1/1 | 2.77 | 2.41 |
| 0/1 | 1/1 | 4.12 | 3.98 |
| 1/1 | 1/1 | 4.81 | 4.76 |
| 1/1 | 1/1 | 9.66 | 9.64 |
| 1/1 | 1/1 | 6 | 6.2 |
| 1/1 | 0/1 | 6.72 | 5.38 |
| 1/1 | 1/1 | 8.97 | 8.57 |
| 1/1 | 1/1 | 5.18 | 4.84 |
| 1/1 | 1/1 | 5.78 | 5.47 |
| 0/1 | 1/1 | 7.78 | 7.6 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 7.45 | 7.39 |
| 0/1 | 1/1 | 5.67 | 5.66 |
| 1/1 | 1/1 | 8.34 | 8.35 |
| 1/1 | 1/1 | 8.6 | 8.6 |
| 0/1 | 1/1 | 6.35 | 6.39 |
| 1/1 | 0/1 | 7.37 | 5.09 |
| 1/1 | 1/1 | 9.61 | 8.39 |
| 1/1 | 1/1 | 10.24 | 9.22 |
| 1/1 | 1/1 | 10.1 | 9.09 |
| 1/1 | 1/1 | 10.1 | 9.09 |
| 1/1 | 1/1 | 10.48 | 9.5 |
| 1/1 | 1/1 | 10.48 | 9.5 |
| 1/1 | 1/1 | 10.4 | 9.45 |
| 1/1 | 1/1 | 3.66 | 2.65 |
| 1/1 | 1/1 | 5.93 | 5.21 |
| 1/1 | 1/1 | 5.12 | 4.45 |
| 1/1 | 1/1 | 8.38 | 7.78 |
| 1/1 | 1/1 | 5.73 | 5.14 |
| 1/1 | 1/1 | 5.18 | 4.68 |
| 1/1 | 1/1 | 4.46 | 3.98 |
| 1/1 | 1/1 | 4.55 | 4.08 |
| 1/1 | 1/1 | 6.19 | 5.79 |
| 0/1 | 1/1 | 5.91 | 5.54 |
| 1/1 | 1/1 | 4.19 | 3.95 |
| 0/1 | 1/1 | 3.43 | 3.21 |
| 1/1 | 1/1 | 7.28 | 7.11 |
| 1/1 | 1/1 | 6.49 | 6.33 |
| 0/1 | 1/1 | 4.14 | 4.01 |
| 1/1 | 1/1 | 3.83 | 3.78 |
| 1/1 | 1/1 | 7.5 | 7.55 |
| 1/1 | 1/1 | 5.56 | 5.62 |
| 1/1 | 1/1 | 6.67 | 6.74 |
| 1/1 | 1/1 | 3.34 | 3.47 |
| 1/1 | 1/1 | 8.41 | 8.58 |
| 1/1 | 1/1 | 6.56 | 6.75 |
| 1/1 | 1/1 | 5.59 | 5.8 |
| 1/1 | 1/1 | 10.08 | 10.3 |
| 0/1 | 1/1 | 3.28 | 3.52 |
| 1/1 | 1/1 | 5.4 | 5.66 |
| 1/1 | 1/1 | 3.77 | 4.06 |
| 0/1 | 1/1 | 3.03 | 3.33 |
| 0/1 | 1/1 | 4.35 | 4.66 |
| 0/1 | 1/1 | 3.63 | 3.97 |
| 0/1 | 1/1 | 4.01 | 4.37 |
| 1/1 | 1/1 | 4.27 | 7.64 |
| 1/1 | 1/1 | 7.97 | 2.75 |
| 1/1 | 1/1 | 6.19 | 4.36 |
| 1/1 | 1/1 | 6.08 | 4.37 |
| 1/1 | 1/1 | 5.62 | 3.91 |
| 1/1 | 1/1 | 5.26 | 3.71 |
| 1/1 | 1/1 | 7.51 | 5.98 |
| 1/1 | 1/1 | 6.89 | 5.78 |
| 1/1 | 1/1 | 5.27 | 4.28 |
| 1/1 | 1/1 | 6.25 | 5.41 |
| 1/1 | 1/1 | 6.89 | 6.06 |
| 1/1 | 1/1 | 6.34 | 5.55 |
| 1/1 | 1/1 | 7.02 | 6.3 |
| 1/1 | 1/1 | 3.91 | 3.32 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 4.14 | 3.69 |
| 1/1 | 1/1 | 2.85 | 2.5 |
| 0/1 | 1/1 | 2.47 | 2.37 |
| 1/1 | 1/1 | 2.61 | 2.63 |
| 1/1 | 1/1 | 7.05 | 4.18 |
| 1/1 | 1/1 | 5.96 | 3.12 |
| 1/1 | 1/1 | 9.16 | 6.54 |
| 1/1 | 1/1 | 7.47 | 5.04 |
| 1/1 | 0/1 | 5.72 | 3.34 |
| 1/1 | 0/1 | 4.45 | 2.16 |
| 1/1 | 1/1 | 7.68 | 5.41 |
| 1/1 | 0/1 | 5.79 | 3.66 |
| 1/1 | 1/1 | 5.39 | 3.31 |
| 1/1 | 1/1 | 6.72 | 4.82 |
| 1/1 | 1/1 | 5.22 | 3.42 |
| 1/1 | 1/1 | 5.88 | 4.13 |
| 1/1 | 1/1 | 6.56 | 4.87 |
| 1/1 | 1/1 | 8.35 | 6.79 |
| 1/1 | 1/1 | 4.66 | 3.11 |
| 1/1 | 1/1 | 7.62 | 6.08 |
| 1/1 | 1/1 | 7.22 | 7.98 |
| 0/1 | 1/1 | 3.29 | 4.82 |
| 1/1 | 1/1 | 5.19 | 3.72 |
| 1/1 | 1/1 | 6.88 | 6.43 |
| 1/1 | 1/1 | 7.5 | 7.25 |
| 1/1 | 1/1 | 7.51 | 7.35 |
| 0/1 | 1/1 | 6.46 | 6.31 |
| 1/1 | 1/1 | 4.97 | 3.06 |
| 1/1 | 1/1 | 4.47 | 5.98 |
| 1/1 | 1/1 | 11.6 | 9.12 |
| 1/1 | 1/1 | 9.14 | 7.2 |
| 1/1 | 0/1 | 6.22 | 4.38 |
| 1/1 | 1/1 | 5.47 | 4.47 |
| 1/1 | 0/1 | 4.77 | 3.98 |
| 1/1 | 1/1 | 5.43 | 4.95 |
| 1/1 | 1/1 | 5.41 | 5.01 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 6.22 | 5.95 |
| 1/1 | 1/1 | 4.42 | 4.17 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 1/1 | 1/1 | 6.15 | 6.01 |
| 1/1 | 1/1 | 5.11 | 5.08 |
| 1/1 | 1/1 | 2.92 | 2.92 |
| 1/1 | 1/1 | 6.75 | 6.75 |
| 0/1 | 1/1 | 2.7 | 2.83 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 5.63 | 4.23 |
| 1/1 | 1/1 | 6.25 | 5.92 |
| 1/1 | 1/1 | 8.4 | 8.06 |
| 1/1 | 1/1 | 3.76 | 3.51 |
| 1/1 | 1/1 | 7.25 | 7 |
| 1/1 | 1/1 | 4.02 | 3.83 |
| 1/1 | 1/1 | 8.11 | 7.93 |
| 1/1 | 1/1 | 8.69 | 8.58 |
| 1/1 | 0/1 | 4.71 | 2.52 |
| 1/1 | 1/1 | 5.37 | 4.25 |
| 1/1 | 1/1 | 8.48 | 7.66 |
| 1/1 | 1/1 | 7.31 | 6.92 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.76 | 4.58 |
| 1/1 | 1/1 | 7.94 | 8.28 |
| 1/1 | 1/1 | 6.08 | 6.56 |
| 1/1 | 1/1 | 9.87 | 10.48 |
| 1/1 | 1/1 | 8.75 | 8.31 |
| 1/1 | 1/1 | 7.75 | 7.45 |
| 0/1 | 1/1 | 3.23 | 3.14 |
| 1/1 | 1/1 | 5.4 | 5.56 |
| 0/1 | 1/1 | 3.86 | 4.14 |
| 1/1 | 1/1 | 11.53 | 9.53 |
| 1/1 | 1/1 | 6.88 | 6.1 |
| 1/1 | 1/1 | 6.17 | 5.44 |
| 1/1 | 1/1 | 6.8 | 6.08 |
| 1/1 | 1/1 | 5.74 | 7.1 |
| 0/1 | 1/1 | 3.2 | 4.65 |
| 0/1 | 1/1 | 2.28 | 2.66 |
| 1/1 | 1/1 | 8.69 | 9.62 |
| 1/1 | 0/1 | 3.77 | 2.06 |
| 1/1 | 0/1 | 7.3 | 6.2 |
| 1/1 | 0/1 | 3.8 | 2.96 |
| 1/1 | 1/1 | 3.95 | 3.19 |
| 1/1 | 1/1 | 6.63 | 5.99 |
| 1/1 | 1/1 | 4.74 | 4.12 |
| 1/1 | 0/1 | 2.94 | 2.37 |
| 1/1 | 1/1 | 3.96 | 3.5 |
| 0/1 | 1/1 | 3.49 | 3.03 |
| 1/1 | 1/1 | 4.53 | 4.14 |
| 1/1 | 1/1 | 2.66 | 2.28 |
| 1/1 | 1/1 | 5.54 | 7.23 |
| 0/1 | 1/1 | 3.22 | 5.15 |
| 1/1 | 1/1 | 3.23 | 5.23 |
| 0/1 | 1/1 | 2.81 | 4.88 |
| 1/1 | 1/1 | 7.61 | 5.16 |
| 1/1 | 1/1 | 4.38 | 2.37 |
| 1/1 | 1/1 | 5.86 | 5.45 |
| 1/1 | 1/1 | 7.64 | 7.37 |
| 0/1 | 1/1 | 2.77 | 2.71 |
| 0/1 | 1/1 | 3.2 | 3.25 |
| 1/1 | 1/1 | 3.08 | 3.28 |
| 1/1 | 1/1 | 5.42 | 5.8 |
| 0/1 | 1/1 | 3.85 | 4.38 |
| 0/1 | 1/1 | 6.64 | 7.31 |
| 1/1 | 1/1 | 4.67 | 5.48 |
| 1/1 | 1/1 | 8.32 | 9.25 |
| 0/1 | 1/1 | 5.89 | 8.83 |
| 0/1 | 1/1 | 6.06 | 9.03 |
| 1/1 | 1/1 | 6.86 | 9.85 |
| 1/1 | 1/1 | 6.88 | 10.21 |
| 1/1 | 0/1 | 5.2 | 2.87 |
| 0/1 | 1/1 | 4.88 | 5.96 |
| 1/1 | 1/1 | 7.55 | 8.67 |
| 1/1 | 1/1 | 5.23 | 6.56 |
| 1/1 | 1/1 | 8.66 | 7.13 |
| 1/1 | 1/1 | 8.43 | 7.89 |
| 1/1 | 1/1 | 5.43 | 5.02 |
| 1/1 | 1/1 | 5.96 | 5.63 |
| 1/1 | 1/1 | 7.96 | 7.67 |
| 1/1 | 1/1 | 7.51 | 7.22 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.72 | 3.48 |
| 1/1 | 1/1 | 9.19 | 8.98 |
| 0/1 | 1/1 | 5.05 | 7.01 |
| 0/1 | 1/1 | 3.83 | 5.82 |
| 0/1 | 1/1 | 3.37 | 5.44 |
| 1/1 | 1/1 | 5.03 | 7.11 |
| 0/1 | 1/1 | 3.13 | 5.24 |
| 1/1 | 1/1 | 4.78 | 6.94 |
| 0/1 | 1/1 | 3.93 | 6.08 |
| 0/1 | 1/1 | 2.71 | 5.01 |
| 1/1 | 1/1 | 6.63 | 8.96 |
| 0/1 | 1/1 | 4.04 | 6.48 |
| 1/1 | 1/1 | 4.87 | 7.33 |
| 0/1 | 1/1 | 3.04 | 5.54 |
| 0/1 | 1/1 | 2.76 | 5.32 |
| 1/1 | 1/1 | 4.29 | 7.24 |
| 0/1 | 1/1 | 2.37 | 5.62 |
| 0/1 | 1/1 | 3.41 | 6.84 |
| 1/1 | 1/1 | 8.5 | 5.94 |
| 1/1 | 1/1 | 6.2 | 6.99 |
| 0/1 | 1/1 | 3.53 | 5.15 |
| 1/1 | 1/1 | 8.79 | 8.26 |
| 1/1 | 1/1 | 6.77 | 6.42 |
| 1/1 | 1/1 | 7.5 | 7.45 |
| 1/1 | 1/1 | 9.6 | 9.71 |
| 1/1 | 1/1 | 5.44 | 5.86 |
| 0/1 | 1/1 | 2.67 | 5.53 |
| 0/1 | 1/1 | 3.11 | 6.04 |
| 1/1 | 1/1 | 3.4 | 6.41 |
| 1/1 | 1/1 | 5.44 | 4.01 |
| 1/1 | 1/1 | 9.77 | 9.54 |
| 1/1 | 1/1 | 7.56 | 7.38 |
| 1/1 | 0/1 | 7.84 | 2.88 |
| 1/1 | 0/1 | 7.19 | 2.79 |
| 1/1 | 1/1 | 7.13 | 3.12 |
| 1/1 | 0/1 | 6.47 | 2.51 |
| 1/1 | 0/1 | 6.51 | 2.61 |
| 1/1 | 1/1 | 8.12 | 4.51 |
| 1/1 | 1/1 | 7.27 | 5.74 |
| 1/1 | 1/1 | 6.06 | 4.53 |
| 1/1 | 0/1 | 3.59 | 2.1 |
| 1/1 | 0/1 | 3.41 | 1.96 |
| 1/1 | 1/1 | 6.57 | 5.12 |
| 1/1 | 1/1 | 4.68 | 3.37 |
| 1/1 | 0/1 | 3.8 | 2.55 |
| 1/1 | 1/1 | 4.83 | 3.74 |
| 1/1 | 1/1 | 8.65 | 7.69 |
| 1/1 | 1/1 | 9.08 | 8.16 |
| 1/1 | 1/1 | 5.64 | 4.82 |
| 1/1 | 1/1 | 7.15 | 6.4 |
| 1/1 | 1/1 | 6.58 | 5.91 |
| 1/1 | 0/1 | 2.79 | 2.12 |
| 1/1 | 1/1 | 4.52 | 3.88 |
| 1/1 | 1/1 | 5.23 | 4.68 |
| 1/1 | 1/1 | 5.52 | 4.99 |
| 1/1 | 1/1 | 7.99 | 7.58 |
| 0/1 | 1/1 | 5.06 | 4.68 |
| 1/1 | 1/1 | 2.91 | 2.79 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 2.27 | 2.15 |
| 1/1 | 1/1 | 13.11 | 13.15 |
| 1/1 | 1/1 | 7.15 | 7.31 |
| 1/1 | 1/1 | 5.82 | 6.21 |
| 0/1 | 1/1 | 2.64 | 3.08 |
| 1/1 | 1/1 | 4.64 | 2.93 |
| 1/1 | 0/1 | 4.07 | 3.41 |
| 1/1 | 1/1 | 8.22 | 7.84 |
| 1/1 | 0/1 | 7.07 | 5.2 |
| 1/1 | 0/1 | 4.77 | 3.15 |
| 1/1 | 1/1 | 6.04 | 5.43 |
| 1/1 | 1/1 | 3.16 | 4.96 |
| 0/1 | 1/1 | 4.85 | 6.85 |
| 0/1 | 1/1 | 3.45 | 5.46 |
| 1/1 | 1/1 | 4.84 | 6.89 |
| 0/1 | 1/1 | 3.97 | 6.08 |
| 1/1 | 0/1 | 7.82 | 1.76 |
| 1/1 | 1/1 | 8.34 | 3.32 |
| 1/1 | 0/1 | 5.63 | 3.17 |
| 1/1 | 0/1 | 5.89 | 3.92 |
| 1/1 | 1/1 | 5.71 | 3.81 |
| 1/1 | 1/1 | 4.66 | 3.08 |
| 1/1 | 1/1 | 4.53 | 4.46 |
| 0/1 | 1/1 | 6.16 | 5.96 |
| 1/1 | 1/1 | 12.86 | 12.85 |
| 1/1 | 1/1 | 3.02 | 3.51 |
| 0/1 | 1/1 | 2.73 | 3.36 |
| 1/1 | 1/1 | 4.86 | 8.3 |
| 1/1 | 0/1 | 10.13 | 7.77 |
| 1/1 | 1/1 | 9.14 | 7.19 |
| 1/1 | 0/1 | 5.11 | 3.72 |
| 1/1 | 0/1 | 6.06 | 5.03 |
| 0/1 | 1/1 | 3.93 | 5.7 |
| 1/1 | 0/1 | 6.45 | 2.49 |
| 1/1 | 0/1 | 7.39 | 3.7 |
| 1/1 | 1/1 | 6.69 | 3.5 |
| 1/1 | 1/1 | 5.92 | 2.78 |
| 1/1 | 1/1 | 9.33 | 6.41 |
| 1/1 | 1/1 | 8.64 | 5.79 |
| 1/1 | 0/1 | 4.66 | 2 |
| 1/1 | 1/1 | 9.88 | 7.25 |
| 1/1 | 1/1 | 10.76 | 10.22 |
| 1/1 | 1/1 | 10.9 | 10.67 |
| 1/1 | 1/1 | 11.22 | 11.62 |
| 1/1 | 1/1 | 7.42 | 3.39 |
| 1/1 | 1/1 | 7.85 | 4.83 |
| 1/1 | 1/1 | 10.82 | 7.93 |
| 1/1 | 1/1 | 10.41 | 7.62 |
| 1/1 | 1/1 | 4.55 | 4.1 |
| 1/1 | 1/1 | 5.18 | 5.24 |
| 0/1 | 1/1 | 5.68 | 5.8 |
| 1/1 | 1/1 | 6.36 | 6.81 |
| 1/1 | 1/1 | 8.62 | 8.21 |
| 1/1 | 1/1 | 9.08 | 8.69 |
| 0/1 | 1/1 | 2.29 | 2.43 |
| 1/1 | 1/1 | 7.06 | 7.25 |
| 0/1 | 1/1 | 5.73 | 6.54 |
| 1/1 | 1/1 | 3.27 | 6.33 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 3.92 | 7.21 |
| 1/1 | 1/1 | 3.25 | 6.93 |
| 1/1 | 1/1 | 3.64 | 7.44 |
| 1/1 | 1/1 | 8.38 | 6.81 |
| 1/1 | 1/1 | 7.87 | 7.34 |
| 1/1 | 1/1 | 6.52 | 6.05 |
| 1/1 | 1/1 | 4.43 | 4.02 |
| 1/1 | 1/1 | 7.68 | 7.38 |
| 1/1 | 1/1 | 7.42 | 7.12 |
| 1/1 | 1/1 | 9.15 | 8.86 |
| 1/1 | 1/1 | 5.8 | 8.22 |
| 1/1 | 1/1 | 4.21 | 3.01 |
| 1/1 | 1/1 | 5.29 | 4.38 |
| 1/1 | 1/1 | 7.79 | 6.88 |
| 1/1 | 0/1 | 2.91 | 2.26 |
| 1/1 | 0/1 | 2.9 | 2.29 |
| 1/1 | 1/1 | 6.54 | 6.02 |
| 1/1 | 1/1 | 3.4 | 2.88 |
| 1/1 | 1/1 | 8.16 | 7.75 |
| 1/1 | 1/1 | 4.66 | 4.28 |
| 0/1 | 1/1 | 5.38 | 5.04 |
| 1/1 | 1/1 | 5.18 | 4.84 |
| 1/1 | 1/1 | 5.64 | 5.36 |
| 1/1 | 1/1 | 5.01 | 4.76 |
| 1/1 | 1/1 | 3.84 | 3.6 |
| 1/1 | 1/1 | 5.22 | 4.99 |
| 1/1 | 1/1 | 5.36 | 5.19 |
| 1/1 | 1/1 | 5.11 | 5.01 |
| 1/1 | 1/1 | 7.36 | 7.29 |
| 1/1 | 1/1 | 2.97 | 2.91 |
| 1/1 | 1/1 | 6.16 | 6.1 |
| 1/1 | 1/1 | 3.05 | 3.02 |
| 0/1 | 1/1 | 2.64 | 2.61 |
| 1/1 | 1/1 | 5.78 | 5.78 |
| 1/1 | 1/1 | 8.07 | 8.09 |
| 1/1 | 1/1 | 5.11 | 5.16 |
| 1/1 | 1/1 | 6.12 | 6.17 |
| 1/1 | 1/1 | 4.6 | 4.68 |
| 1/1 | 1/1 | 4.92 | 5.01 |
| 0/1 | 1/1 | 3.02 | 3.1 |
| 1/1 | 1/1 | 8.85 | 8.94 |
| 1/1 | 1/1 | 6.68 | 6.76 |
| 1/1 | 1/1 | 3.7 | 3.79 |
| 0/1 | 1/1 | 3.48 | 3.57 |
| 1/1 | 1/1 | 8.02 | 8.11 |
| 1/1 | 1/1 | 3.47 | 3.57 |
| 1/1 | 1/1 | 6.13 | 6.24 |
| 1/1 | 1/1 | 3 | 3.11 |
| 0/1 | 1/1 | 2.63 | 2.75 |
| 0/1 | 1/1 | 3.71 | 3.82 |
| 1/1 | 1/1 | 7.34 | 7.46 |
| 1/1 | 1/1 | 6.03 | 6.16 |
| 1/1 | 1/1 | 6.17 | 6.29 |
| 1/1 | 1/1 | 4.86 | 4.99 |
| 1/1 | 1/1 | 5.87 | 7.99 |
| 1/1 | 1/1 | 5.61 | 7.75 |
| 1/1 | 1/1 | 5.05 | 7.2 |
| 1/1 | 1/1 | 5.3 | 7.46 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 4.18 | 6.35 |
| 1/1 | 1/1 | 7.25 | 9.43 |
| 0/1 | 1/1 | 3.93 | 6.13 |
| 1/1 | 1/1 | 4.36 | 6.61 |
| 1/1 | 1/1 | 5.93 | 8.18 |
| 1/1 | 1/1 | 4.91 | 7.16 |
| 1/1 | 1/1 | 6.19 | 8.5 |
| 1/1 | 1/1 | 4.63 | 6.95 |
| 1/1 | 1/1 | 5.98 | 8.32 |
| 0/1 | 1/1 | 3.05 | 5.41 |
| 1/1 | 1/1 | 6.83 | 9.29 |
| 1/1 | 1/1 | 6.66 | 9.15 |
| 0/1 | 1/1 | 2.27 | 4.99 |
| 1/1 | 1/1 | 6.05 | 8.77 |
| 0/1 | 1/1 | 2.7 | 5.43 |
| 0/1 | 1/1 | 1.79 | 4.65 |
| 0/1 | 1/1 | 3.1 | 6.36 |
| 1/1 | 1/1 | 8.34 | 6.77 |
| 1/1 | 1/1 | 7.57 | 7.07 |
| 0/1 | 1/1 | 4.69 | 4.24 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 4.01 | 3.09 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 6.96 | 8.55 |
| 1/1 | 1/1 | 7.59 | 9.19 |
| 1/1 | 1/1 | 6.11 | 7.78 |
| 1/1 | 1/1 | 5.73 | 7.58 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 0/1 | 4.24 | 2.2 |
| 1/1 | 1/1 | 9.52 | 8.21 |
| 1/1 | 1/1 | 3.78 | 2.74 |
| 1/1 | 0/1 | 4.07 | 2.29 |
| 1/1 | 0/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 4.01 | 3.09 |
| 1/1 | 1/1 | 8.03 | 7.32 |
| 1/1 | 1/1 | 6.88 | 6.37 |
| 1/1 | 1/1 | 6.29 | 5.78 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 7.59 | 9.19 |
| 1/1 | 1/1 | 6.11 | 7.78 |
| 1/1 | 1/1 | 5.73 | 7.66 |
| 0/1 | 1/1 | 3.21 | 5.97 |
| 1/1 | 1/1 | 6.6 | 4.87 |
| 1/1 | 1/1 | 5.32 | 4.34 |
| 1/1 | 1/1 | 5.37 | 4.82 |
| 1/1 | 1/1 | 4.45 | 4.03 |
| 1/1 | 1/1 | 6.37 | 4.73 |
| 1/1 | 0/1 | 2.99 | 2.16 |
| 1/1 | 0/1 | 2.91 | 2.21 |
| 1/1 | 1/1 | 4.44 | 3.37 |
| 1/1 | 0/1 | 2.98 | 2.16 |
| 1/1 | 1/1 | 3.36 | 2.62 |
| 1/1 | 1/1 | 4.17 | 3.43 |
| 1/1 | 1/1 | 3.39 | 2.79 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.37 | 2.85 |
| 1/1 | 0/1 | 2.89 | 2.45 |
| 1/1 | 1/1 | 2.94 | 2.52 |
| 1/1 | 0/1 | 2.59 | 2.17 |
| 1/1 | 0/1 | 2.87 | 2.51 |
| 1/1 | 1/1 | 2.76 | 2.41 |
| 1/1 | 1/1 | 9.49 | 9.17 |
| 1/1 | 1/1 | 2.93 | 2.62 |
| 1/1 | 1/1 | 3.4 | 3.09 |
| 1/1 | 1/1 | 4.28 | 4 |
| 0/1 | 1/1 | 3.14 | 2.86 |
| 1/1 | 1/1 | 3.32 | 3.05 |
| 1/1 | 1/1 | 3.47 | 3.21 |
| 1/1 | 1/1 | 2.7 | 2.44 |
| 0/1 | 1/1 | 3.48 | 3.29 |
| 1/1 | 1/1 | 3.52 | 3.36 |
| 1/1 | 1/1 | 3.22 | 3.07 |
| 1/1 | 1/1 | 4.11 | 3.97 |
| 1/1 | 1/1 | 6.49 | 6.38 |
| 0/1 | 1/1 | 2.64 | 2.57 |
| 1/1 | 1/1 | 3.9 | 3.85 |
| 1/1 | 1/1 | 2.58 | 2.54 |
| 1/1 | 1/1 | 3.09 | 3.07 |
| 1/1 | 1/1 | 2.65 | 2.64 |
| 0/1 | 1/1 | 3.16 | 3.17 |
| 0/1 | 1/1 | 2.32 | 2.34 |
| 1/1 | 1/1 | 6.19 | 6.22 |
| 1/1 | 1/1 | 5.81 | 5.84 |
| 1/1 | 1/1 | 6.57 | 6.61 |
| 1/1 | 1/1 | 3.43 | 3.48 |
| 0/1 | 1/1 | 2.13 | 2.2 |
| 1/1 | 1/1 | 6.16 | 6.25 |
| 1/1 | 1/1 | 5.26 | 5.36 |
| 1/1 | 1/1 | 3.61 | 3.77 |
| 0/1 | 1/1 | 3.73 | 3.9 |
| 1/1 | 1/1 | 5.81 | 5.99 |
| 0/1 | 1/1 | 2.19 | 2.38 |
| 1/1 | 1/1 | 4.47 | 4.66 |
| 1/1 | 1/1 | 4.52 | 4.72 |
| 1/1 | 1/1 | 3.52 | 3.72 |
| 1/1 | 1/1 | 3.54 | 3.77 |
| 0/1 | 1/1 | 2.92 | 3.16 |
| 1/1 | 1/1 | 7.03 | 5.45 |
| 1/1 | 1/1 | 6.41 | 4.92 |
| 1/1 | 1/1 | 8.34 | 7.9 |
| 1/1 | 1/1 | 6.21 | 5.8 |
| 1/1 | 1/1 | 4.34 | 3.94 |
| 1/1 | 1/1 | 9.27 | 8.92 |
| 1/1 | 1/1 | 4.77 | 6.72 |
| 0/1 | 1/1 | 5.67 | 5.22 |
| 1/1 | 1/1 | 7.61 | 7.17 |
| 1/1 | 1/1 | 8.72 | 8.47 |
| 1/1 | 1/1 | 4.32 | 4.41 |
| 0/1 | 1/1 | 6.61 | 7.34 |
| 0/1 | 1/1 | 2.59 | 5.49 |
| 1/1 | 1/1 | 4.17 | 7.3 |
| 0/1 | 1/1 | 3.66 | 7.05 |
| 1/1 | 1/1 | 3.89 | 7.59 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.47 | 7.81 |
| 1/1 | 1/1 | 9.1 | 7.92 |
| 1/1 | 1/1 | 8.61 | 7.83 |
| 1/1 | 1/1 | 6.87 | 6.14 |
| 0/1 | 1/1 | 5.59 | 5.09 |
| 1/1 | 1/1 | 8.12 | 7.67 |
| 1/1 | 1/1 | 10.12 | 9.71 |
| 1/1 | 1/1 | 7.88 | 7.51 |
| 0/1 | 1/1 | 7.46 | 7.16 |
| 1/1 | 1/1 | 9.4 | 9.1 |
| 1/1 | 1/1 | 7.29 | 7.02 |
| 0/1 | 1/1 | 5.22 | 5.02 |
| 0/1 | 1/1 | 7.17 | 6.98 |
| 1/1 | 1/1 | 9.74 | 9.69 |
| 1/1 | 1/1 | 6.9 | 6.87 |
| 1/1 | 1/1 | 8.25 | 8.26 |
| 0/1 | 1/1 | 5.61 | 5.71 |
| 1/1 | 1/1 | 5.57 | 5.39 |
| 0/1 | 1/1 | 6.94 | 6.87 |
| 1/1 | 1/1 | 7.02 | 7.02 |
| 0/1 | 1/1 | 7.05 | 7.11 |
| 1/1 | 1/1 | 6.56 | 6.64 |
| 0/1 | 1/1 | 2.7 | 2.96 |
| 1/1 | 1/1 | 7.03 | 7.39 |
| 1/1 | 1/1 | 2.74 | 3.16 |
| 1/1 | 1/1 | 8.53 | 8.99 |
| 1/1 | 1/1 | 3.05 | 3.54 |
| 1/1 | 1/1 | 6.42 | 7.1 |
| 0/1 | 1/1 | 3.3 | 4.15 |
| 1/1 | 1/1 | 6.07 | 7.01 |
| 0/1 | 1/1 | 4.52 | 5.57 |
| 0/1 | 1/1 | 2.11 | 5.28 |
| 0/1 | 1/1 | 2.93 | 6.12 |
| 1/1 | 1/1 | 4.28 | 7.63 |
| 1/1 | 1/1 | 4.52 | 7.86 |
| 0/1 | 1/1 | 4.35 | 7.8 |
| 0/1 | 1/1 | 2.12 | 5.72 |
| 0/1 | 1/1 | 1.74 | 5.77 |
| 1/1 | 1/1 | 6.15 | 4.44 |
| 1/1 | 1/1 | 8.8 | 8.1 |
| 1/1 | 1/1 | 6.82 | 6.28 |
| 1/1 | 1/1 | 7.43 | 6.92 |
| 1/1 | 0/1 | 4.55 | 4.15 |
| 0/1 | 1/1 | 2.2 | 4.71 |
| 1/1 | 1/1 | 7.11 | 5.71 |
| 1/1 | 1/1 | 7.76 | 6.53 |
| 1/1 | 1/1 | 8.82 | 7.83 |
| 1/1 | 1/1 | 8.06 | 7.19 |
| 1/1 | 1/1 | 3.91 | 3.47 |
| 1/1 | 1/1 | 6.95 | 6.53 |
| 1/1 | 1/1 | 8.11 | 7.78 |
| 1/1 | 1/1 | 6.94 | 6.61 |
| 1/1 | 1/1 | 9.74 | 9.47 |
| 1/1 | 1/1 | 4.65 | 4.41 |
| 1/1 | 1/1 | 5.26 | 5.08 |
| 0/1 | 1/1 | 5.65 | 5.49 |
| 1/1 | 1/1 | 6.66 | 6.51 |
| 1/1 | 1/1 | 6.78 | 6.64 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.34 | 8.24 |
| 1/1 | 1/1 | 8.02 | 7.92 |
| 0/1 | 1/1 | 5.6 | 5.5 |
| 1/1 | 1/1 | 7.41 | 5.35 |
| 1/1 | 1/1 | 6.32 | 5.09 |
| 1/1 | 1/1 | 5.81 | 4.81 |
| 1/1 | 1/1 | 5.67 | 4.83 |
| 1/1 | 1/1 | 6.77 | 5.94 |
| 1/1 | 1/1 | 4.91 | 4.15 |
| 1/1 | 0/1 | 7.76 | 3.46 |
| 1/1 | 0/1 | 6.58 | 2.68 |
| 1/1 | 1/1 | 8.37 | 4.52 |
| 1/1 | 1/1 | 4.72 | 3.78 |
| 1/1 | 1/1 | 8.93 | 8.55 |
| 1/1 | 1/1 | 7.29 | 6.99 |
| 1/1 | 1/1 | 5.36 | 4.98 |
| 0/1 | 1/1 | 7.16 | 7.18 |
| 1/1 | 1/1 | 5.11 | 5.13 |
| 1/1 | 1/1 | 6.76 | 7.02 |
| 1/1 | 1/1 | 5.26 | 5.65 |
| 0/1 | 1/1 | 6.25 | 6.64 |
| 0/1 | 1/1 | 2.72 | 3.29 |
| 1/1 | 1/1 | 3.85 | 4.76 |
| 1/1 | 1/1 | 5.85 | 4.88 |
| 1/1 | 1/1 | 4.42 | 4.01 |
| 0/1 | 1/1 | 3.16 | 2.79 |
| 1/1 | 1/1 | 9.04 | 8.89 |
| 1/1 | 1/1 | 7.26 | 7.15 |
| 1/1 | 1/1 | 5.8 | 5.84 |
| 1/1 | 1/1 | 6.52 | 6.63 |
| 0/1 | 1/1 | 8.11 | 8.28 |
| 1/1 | 1/1 | 7.06 | 7.24 |
| 1/1 | 1/1 | 6.31 | 6.55 |
| 1/1 | 1/1 | 4.97 | 5.27 |
| 0/1 | 1/1 | 5.84 | 8.77 |
| 1/1 | 0/1 | 5.01 | 3.29 |
| 1/1 | 1/1 | 8.92 | 7.61 |
| 1/1 | 1/1 | 5.28 | 4.13 |
| 1/1 | 1/1 | 5.39 | 4.73 |
| 1/1 | 1/1 | 8.78 | 8.19 |
| 1/1 | 1/1 | 6.67 | 6.09 |
| 1/1 | 1/1 | 11.66 | 11.09 |
| 1/1 | 1/1 | 6.19 | 5.68 |
| 1/1 | 1/1 | 6.85 | 6.39 |
| 1/1 | 1/1 | 9.44 | 9 |
| 1/1 | 1/1 | 3.19 | 4.84 |
| 0/1 | 1/1 | 4.63 | 6.3 |
| 1/1 | 1/1 | 6.9 | 5.23 |
| 1/1 | 1/1 | 7 | 5.94 |
| 1/1 | 1/1 | 6.46 | 5.42 |
| 1/1 | 1/1 | 4.36 | 3.84 |
| 1/1 | 1/1 | 6.01 | 5.51 |
| 1/1 | 1/1 | 3.62 | 3.17 |
| 1/1 | 1/1 | 5.12 | 6.82 |
| 1/1 | 0/1 | 3.66 | 2.86 |
| 1/1 | 1/1 | 5.27 | 4.86 |
| 1/1 | 1/1 | 3.64 | 3.36 |
| 1/1 | 1/1 | 3.98 | 3.84 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.11 | 5.98 |
| 1/1 | 1/1 | 3.44 | 3.34 |
| 1/1 | 1/1 | 5.99 | 5.9 |
| 1/1 | 1/1 | 3.92 | 3.91 |
| 1/1 | 1/1 | 6.73 | 6.77 |
| 1/1 | 1/1 | 10.1 | 10.16 |
| 1/1 | 1/1 | 3.66 | 3.77 |
| 0/1 | 1/1 | 2.43 | 2.59 |
| 0/1 | 1/1 | 2.34 | 2.52 |
| 0/1 | 1/1 | 3.19 | 3.41 |
| 1/1 | 1/1 | 4.09 | 4.4 |
| 0/1 | 1/1 | 2.68 | 3.03 |
| 1/1 | 1/1 | 2.9 | 5.58 |
| 0/1 | 1/1 | 3 | 6.67 |
| 1/1 | 1/1 | 6.44 | 6.15 |
| 0/1 | 1/1 | 4.89 | 4.66 |
| 1/1 | 1/1 | 4.43 | 4.24 |
| 0/1 | 1/1 | 6.96 | 6.87 |
| 1/1 | 1/1 | 4.72 | 7.95 |
| 1/1 | 1/1 | 5.29 | 9 |
| 1/1 | 1/1 | 4.72 | 8.68 |
| 1/1 | 0/1 | 5.59 | 3.62 |
| 1/1 | 1/1 | 6.73 | 5.96 |
| 1/1 | 1/1 | 5.53 | 6.97 |
| 1/1 | 1/1 | 4.44 | 6.24 |
| 0/1 | 1/1 | 3.37 | 5.69 |
| 1/1 | 1/1 | 4.28 | 3.52 |
| 1/1 | 1/1 | 3.92 | 3.41 |
| 1/1 | 1/1 | 2.66 | 2.49 |
| 1/1 | 1/1 | 6.24 | 6.48 |
| 1/1 | 1/1 | 2.84 | 3.13 |
| 1/1 | 1/1 | 3.96 | 6.84 |
| 1/1 | 1/1 | 8.36 | 7.46 |
| 1/1 | 1/1 | 10.26 | 9.91 |
| 1/1 | 1/1 | 7.25 | 7.01 |
| 1/1 | 1/1 | 10.88 | 10.83 |
| 1/1 | 1/1 | 8.61 | 8.7 |
| 1/1 | 1/1 | 6.63 | 6.75 |
| 1/1 | 1/1 | 8.1 | 8.35 |
| 1/1 | 1/1 | 7.22 | 7.47 |
| 1/1 | 1/1 | 10.57 | 10.93 |
| 1/1 | 1/1 | 5.88 | 8.7 |
| 1/1 | 1/1 | 5.43 | 8.55 |
| 1/1 | 0/1 | 5.42 | 3.04 |
| 1/1 | 1/1 | 7.04 | 8.46 |
| 0/1 | 1/1 | 3.3 | 4.78 |
| 0/1 | 1/1 | 2.26 | 4.03 |
| 1/1 | 1/1 | 11.53 | 10.13 |
| 0/1 | 1/1 | 4.31 | 4.15 |
| 1/1 | 1/1 | 9.4 | 9.24 |
| 1/1 | 1/1 | 5.15 | 7.07 |
| 1/1 | 1/1 | 6.58 | 8.61 |
| 1/1 | 1/1 | 7.42 | 9.48 |
| 1/1 | 1/1 | 5.32 | 7.49 |
| 1/1 | 1/1 | 4.51 | 6.68 |
| 1/1 | 1/1 | 3.29 | 5.57 |
| 0/1 | 1/1 | 4.5 | 7.16 |
| 1/1 | 1/1 | 3.67 | 7.25 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.95 | 6.85 |
| 1/1 | 1/1 | 6.02 | 6.31 |
| 0/1 | 1/1 | 4.19 | 4.64 |
| 0/1 | 1/1 | 7.58 | 8.17 |
| 0/1 | 1/1 | 2.31 | 5.58 |
| 1/1 | 1/1 | 5.54 | 8.91 |
| 1/1 | 0/1 | 3.62 | 2.71 |
| 1/1 | 1/1 | 6.47 | 5.61 |
| 1/1 | 1/1 | 6.98 | 6.97 |
| 1/1 | 1/1 | 4.11 | 4.11 |
| 1/1 | 1/1 | 8.58 | 8.78 |
| 1/1 | 1/1 | 6.73 | 6.94 |
| 1/1 | 1/1 | 8.99 | 9.28 |
| 0/1 | 1/1 | 2.74 | 5.42 |
| 1/1 | 1/1 | 3.41 | 6.14 |
| 1/1 | 1/1 | 7.82 | 7.66 |
| 1/1 | 1/1 | 6.35 | 6.83 |
| 1/1 | 1/1 | 5.38 | 6.21 |
| 0/1 | 1/1 | 3.09 | 4.05 |
| 1/1 | 0/1 | 4.55 | 2.61 |
| 1/1 | 1/1 | 7.02 | 5.13 |
| 1/1 | 0/1 | 4.26 | 2.73 |
| 1/1 | 1/1 | 2.88 | 2.11 |
| 1/1 | 1/1 | 4.92 | 4.19 |
| 1/1 | 1/1 | 4.66 | 3.95 |
| 1/1 | 1/1 | 4.74 | 6.94 |
| 1/1 | 1/1 | 5.32 | 5.22 |
| 0/1 | 1/1 | 6.43 | 6.36 |
| 1/1 | 1/1 | 5.64 | 5.62 |
| 1/1 | 1/1 | 4.7 | 4.8 |
| 1/1 | 1/1 | 7.25 | 7.41 |
| 1/1 | 1/1 | 5.36 | 5.69 |
| 1/1 | 1/1 | 4.12 | 4.57 |
| 1/1 | 1/1 | 10.9 | 11.39 |
| 0/1 | 1/1 | 2.61 | 3.18 |
| 1/1 | 1/1 | 5.62 | 6.27 |
| 1/1 | 1/1 | 4.32 | 5.15 |
| 1/1 | 1/1 | 11.96 | 12.98 |
| 1/1 | 1/1 | 12.86 | 13.9 |
| 1/1 | 1/1 | 6.35 | 7.47 |
| 1/1 | 1/1 | 11.31 | 12.48 |
| 1/1 | 1/1 | 3.8 | 7.47 |
| 1/1 | 1/1 | 4.28 | 3.78 |
| 0/1 | 1/1 | 3.92 | 4.12 |
| 1/1 | 1/1 | 6.52 | 7.22 |
| 1/1 | 1/1 | 6.25 | 9.34 |
| 1/1 | 1/1 | 5.31 | 8.47 |
| 1/1 | 1/1 | 5.63 | 9.12 |
| 1/1 | 1/1 | 4.87 | 8.42 |
| 1/1 | 1/1 | 5.85 | 4.22 |
| 1/1 | 1/1 | 7.48 | 6.7 |
| 0/1 | 1/1 | 5.38 | 4.73 |
| 1/1 | 1/1 | 5.04 | 4.46 |
| 0/1 | 1/1 | 2.21 | 3.87 |
| 0/1 | 1/1 | 2.92 | 4.79 |
| 1/1 | 0/1 | 5.35 | 3.68 |
| 1/1 | 1/1 | 6.61 | 6.01 |
| 1/1 | 0/1 | 4.9 | 2.18 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 4.18 | 2.09 |
| 1/1 | 0/1 | 4.18 | 2.09 |
| 1/1 | 0/1 | 4.92 | 2.84 |
| 1/1 | 0/1 | 4.66 | 2.63 |
| 1/1 | 0/1 | 4.66 | 2.63 |
| 1/1 | 0/1 | 4.66 | 2.63 |
| 1/1 | 0/1 | 4.66 | 2.78 |
| 1/1 | 0/1 | 3.46 | 1.71 |
| 1/1 | 1/1 | 5.97 | 4.42 |
| 1/1 | 0/1 | 4.96 | 3.44 |
| 1/1 | 0/1 | 5.15 | 3.66 |
| 1/1 | 0/1 | 3.7 | 2.22 |
| 1/1 | 0/1 | 3.7 | 2.22 |
| 1/1 | 0/1 | 3.7 | 2.22 |
| 1/1 | 1/1 | 5.14 | 5.71 |
| 0/1 | 1/1 | 3.18 | 4.03 |
| 1/1 | 1/1 | 9.49 | 7.14 |
| 1/1 | 0/1 | 3.4 | 2.1 |
| 1/1 | 1/1 | 4.79 | 5.82 |
| 1/1 | 0/1 | 4.84 | 2.9 |
| 1/1 | 0/1 | 3.84 | 3.07 |
| 1/1 | 1/1 | 3.73 | 2.97 |
| 1/1 | 0/1 | 2.84 | 2.1 |
| 1/1 | 1/1 | 6.88 | 6.17 |
| 1/1 | 0/1 | 3.74 | 3.05 |
| 1/1 | 1/1 | 3.4 | 4.82 |
| 0/1 | 1/1 | 1.77 | 3.21 |
| 1/1 | 1/1 | 6.79 | 6.06 |
| 1/1 | 1/1 | 9.21 | 8.53 |
| 0/1 | 1/1 | 3.36 | 2.83 |
| 1/1 | 1/1 | 6.41 | 6.03 |
| 1/1 | 1/1 | 4.61 | 4.48 |
| 1/1 | 1/1 | 4.93 | 4.89 |
| 0/1 | 1/1 | 4.25 | 4.22 |
| 0/1 | 1/1 | 3.96 | 4.31 |
| 0/1 | 1/1 | 3.07 | 3.49 |
| 1/1 | 1/1 | 5.45 | 5.92 |
| 1/1 | 1/1 | 3.49 | 3.98 |
| 1/1 | 1/1 | 4.22 | 4.72 |
| 1/1 | 1/1 | 5.83 | 8.4 |
| 1/1 | 1/1 | 5.41 | 8.15 |
| 1/1 | 1/1 | 3.65 | 6.59 |
| 0/1 | 1/1 | 2.46 | 5.65 |
| 0/1 | 1/1 | 2.89 | 6.35 |
| 1/1 | 1/1 | 4.79 | 8.3 |
| 1/1 | 1/1 | 7.66 | 7.58 |
| 1/1 | 1/1 | 4.6 | 4.58 |
| 1/1 | 1/1 | 5.44 | 5.93 |
| 0/1 | 1/1 | 3.8 | 4.32 |
| 1/1 | 1/1 | 7.09 | 7.69 |
| 1/1 | 1/1 | 5.2 | 5.96 |
| 0/1 | 1/1 | 5.29 | 6.11 |
| 1/1 | 1/1 | 4.98 | 4.1 |
| 1/1 | 1/1 | 3.17 | 2.44 |
| 1/1 | 1/1 | 6.43 | 5.79 |
| 1/1 | 1/1 | 7.02 | 6.79 |
| 1/1 | 1/1 | 5.79 | 5.75 |
| 0/1 | 1/1 | 6.22 | 6.31 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.93 | 10.11 |
| 1/1 | 1/1 | 7.37 | 7.54 |
| 1/1 | 1/1 | 5.73 | 6.07 |
| 1/1 | 1/1 | 8.74 | 7.45 |
| 1/1 | 1/1 | 7.63 | 6.81 |
| 1/1 | 1/1 | 8.66 | 7.95 |
| 1/1 | 1/1 | 5.65 | 5.52 |
| 1/1 | 1/1 | 7.89 | 10.02 |
| 1/1 | 1/1 | 4.26 | 3.07 |
| 1/1 | 1/1 | 5.55 | 4.49 |
| 1/1 | 0/1 | 3.95 | 3 |
| 1/1 | 0/1 | 3.85 | 2.96 |
| 1/1 | 1/1 | 6.61 | 5.98 |
| 1/1 | 1/1 | 4.93 | 4.32 |
| 1/1 | 1/1 | 5.32 | 4.98 |
| 1/1 | 1/1 | 6.84 | 6.59 |
| 0/1 | 1/1 | 3.05 | 2.85 |
| 0/1 | 1/1 | 2.48 | 2.37 |
| 0/1 | 1/1 | 3.44 | 3.43 |
| 1/1 | 1/1 | 7.12 | 7.13 |
| 1/1 | 1/1 | 3.41 | 3.45 |
| 1/1 | 1/1 | 3.64 | 3.68 |
| 1/1 | 1/1 | 7.16 | 9.71 |
| 1/1 | 1/1 | 7.43 | 5.11 |
| 0/1 | 1/1 | 2.59 | 3.76 |
| 0/1 | 1/1 | 3.67 | 4.99 |
| 1/1 | 1/1 | 8.5 | 7.06 |
| 1/1 | 1/1 | 7.06 | 6.05 |
| 1/1 | 1/1 | 6.81 | 6.29 |
| 1/1 | 1/1 | 5.84 | 5.55 |
| 0/1 | 1/1 | 7.22 | 6.95 |
| 1/1 | 1/1 | 10.99 | 10.76 |
| 1/1 | 1/1 | 8.09 | 7.86 |
| 1/1 | 0/1 | 3.89 | 2.72 |
| 1/1 | 0/1 | 3.39 | 2.65 |
| 1/1 | 1/1 | 2.81 | 2.28 |
| 1/1 | 1/1 | 2.51 | 2.27 |
| 1/1 | 1/1 | 4.72 | 6.93 |
| 1/1 | 0/1 | 3.74 | 2.56 |
| 1/1 | 0/1 | 2.9 | 2.21 |
| 1/1 | 1/1 | 4.3 | 3.82 |
| 1/1 | 1/1 | 2.56 | 2.18 |
| 1/1 | 1/1 | 3.2 | 2.89 |
| 1/1 | 0/1 | 2.54 | 2.26 |
| 1/1 | 1/1 | 4.05 | 3.83 |
| 1/1 | 1/1 | 6.53 | 6.34 |
| 1/1 | 1/1 | 8 | 7.91 |
| 1/1 | 1/1 | 9.42 | 9.34 |
| 1/1 | 1/1 | 2.55 | 2.5 |
| 1/1 | 1/1 | 7.43 | 7.39 |
| 0/1 | 1/1 | 4.1 | 4.06 |
| 1/1 | 1/1 | 5.49 | 5.5 |
| 1/1 | 1/1 | 3.3 | 3.31 |
| 0/1 | 1/1 | 3.2 | 5.33 |
| 0/1 | 1/1 | 2.13 | 4.3 |
| 0/1 | 1/1 | 3.01 | 5.57 |
| 1/1 | 1/1 | 8.87 | 6.7 |
| 1/1 | 1/1 | 5.47 | 3.57 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 5.36 | 4.23 |
| 0/1 | 1/1 | 2.22 | 3.64 |
| 1/1 | 1/1 | 7.47 | 6.27 |
| 1/1 | 1/1 | 6.37 | 5.22 |
| 1/1 | 1/1 | 7.58 | 6.42 |
| 1/1 | 0/1 | 4.25 | 3.23 |
| 1/1 | 1/1 | 8.26 | 7.23 |
| 1/1 | 1/1 | 6.47 | 5.48 |
| 1/1 | 0/1 | 3.59 | 2.64 |
| 1/1 | 1/1 | 7.59 | 6.67 |
| 1/1 | 1/1 | 8.17 | 7.26 |
| 1/1 | 1/1 | 8.61 | 7.8 |
| 1/1 | 1/1 | 7.41 | 6.62 |
| 1/1 | 1/1 | 10.21 | 9.49 |
| 1/1 | 1/1 | 6.31 | 5.6 |
| 1/1 | 1/1 | 3.13 | 2.44 |
| 1/1 | 1/1 | 7.33 | 6.64 |
| 1/1 | 1/1 | 8.78 | 8.11 |
| 1/1 | 1/1 | 8.16 | 7.51 |
| 1/1 | 1/1 | 7.53 | 6.9 |
| 1/1 | 1/1 | 4.25 | 3.63 |
| 1/1 | 1/1 | 6.56 | 5.94 |
| 1/1 | 1/1 | 7.84 | 7.38 |
| 1/1 | 1/1 | 4.21 | 3.89 |
| 1/1 | 1/1 | 6.63 | 6.33 |
| 1/1 | 1/1 | 5.27 | 4.98 |
| 1/1 | 1/1 | 4.54 | 4.26 |
| 1/1 | 1/1 | 5.66 | 5.5 |
| 1/1 | 1/1 | 2.91 | 2.83 |
| 1/1 | 1/1 | 6.78 | 6.74 |
| 1/1 | 1/1 | 2.61 | 2.59 |
| 0/1 | 1/1 | 2.5 | 4.98 |
| 0/1 | 1/1 | 4.98 | 7.47 |
| 1/1 | 1/1 | 4.95 | 8.01 |
| 1/1 | 1/1 | 5 | 8.9 |
| 1/1 | 1/1 | 5.76 | 3.76 |
| 1/1 | 1/1 | 4.44 | 3.42 |
| 1/1 | 1/1 | 5.8 | 4.79 |
| 1/1 | 0/1 | 7.12 | 6.32 |
| 0/1 | 1/1 | 4.12 | 5.41 |
| 0/1 | 1/1 | 3.36 | 4.99 |
| 1/1 | 0/1 | 5.31 | 2.53 |
| 0/1 | 1/1 | 5.03 | 5.58 |
| 1/1 | 1/1 | 3.61 | 4.34 |
| 1/1 | 0/1 | 5.18 | 3.68 |
| 1/1 | 1/1 | 4.66 | 3.34 |
| 1/1 | 0/1 | 4.63 | 3.33 |
| 1/1 | 1/1 | 6.7 | 5.53 |
| 1/1 | 0/1 | 4.22 | 3.22 |
| 1/1 | 0/1 | 5.11 | 4.23 |
| 1/1 | 1/1 | 4.44 | 3.72 |
| 1/1 | 1/1 | 5.89 | 5.29 |
| 1/1 | 1/1 | 5.25 | 4.71 |
| 1/1 | 1/1 | 3.62 | 3.14 |
| 1/1 | 1/1 | 5.37 | 4.9 |
| 1/1 | 0/1 | 3.24 | 2.77 |
| 1/1 | 1/1 | 7.54 | 7.11 |
| 1/1 | 1/1 | 4.96 | 4.57 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.71 | 6.38 |
| 1/1 | 0/1 | 2.72 | 2.47 |
| 1/1 | 0/1 | 6.42 | 3.52 |
| 1/1 | 0/1 | 6.52 | 4.35 |
| 1/1 | 1/1 | 6.46 | 4.75 |
| 0/1 | 1/1 | 7.05 | 7.42 |
| 0/1 | 1/1 | 2.9 | 3.4 |
| 1/1 | 1/1 | 7.47 | 8.03 |
| 1/1 | 1/1 | 8.18 | 8.94 |
| 1/1 | 1/1 | 5.53 | 5.03 |
| 0/1 | 1/1 | 8.02 | 8.22 |
| 1/1 | 1/1 | 6.72 | 7.08 |
| 1/1 | 1/1 | 9.39 | 10.02 |
| 1/1 | 1/1 | 4.42 | 5.11 |
| 1/1 | 0/1 | 5.3 | 2.85 |
| 1/1 | 0/1 | 4.1 | 2.89 |
| 1/1 | 0/1 | 6.48 | 3.35 |
| 1/1 | 1/1 | 7.7 | 4.59 |
| 1/1 | 1/1 | 7.7 | 4.87 |
| 1/1 | 1/1 | 9.19 | 6.84 |
| 1/1 | 1/1 | 6.7 | 4.38 |
| 1/1 | 1/1 | 8.99 | 9.24 |
| 0/1 | 1/1 | 8.25 | 8.5 |
| 1/1 | 1/1 | 7.12 | 6.8 |
| 1/1 | 1/1 | 10.19 | 9.89 |
| 1/1 | 1/1 | 5.03 | 4.84 |
| 1/1 | 1/1 | 8.57 | 8.43 |
| 0/1 | 1/1 | 5.35 | 5.23 |
| 0/1 | 1/1 | 6.54 | 6.46 |
| 1/1 | 1/1 | 7.27 | 7.24 |
| 1/1 | 1/1 | 12.17 | 12.14 |
| 1/1 | 1/1 | 9.92 | 10.13 |
| 0/1 | 1/1 | 6.52 | 7.05 |
| 1/1 | 1/1 | 9.09 | 9.69 |
| 1/1 | 1/1 | 4.51 | 5.34 |
| 1/1 | 1/1 | 5.79 | 8.71 |
| 0/1 | 1/1 | 5.29 | 8.54 |
| 1/1 | 1/1 | 4.72 | 8.33 |
| 1/1 | 0/1 | 6.56 | 3.46 |
| 1/1 | 0/1 | 5.48 | 3.33 |
| 0/1 | 1/1 | 6.3 | 6.47 |
| 0/1 | 1/1 | 6.06 | 6.26 |
| 0/1 | 1/1 | 5.01 | 5.27 |
| 1/1 | 1/1 | 7.09 | 6.31 |
| 1/1 | 1/1 | 6.69 | 6.16 |
| 1/1 | 1/1 | 6.83 | 6.39 |
| 1/1 | 1/1 | 3.18 | 2.75 |
| 1/1 | 1/1 | 4.55 | 4.25 |
| 1/1 | 1/1 | 4.41 | 4.14 |
| 1/1 | 1/1 | 6.09 | 5.84 |
| 1/1 | 1/1 | 5.73 | 5.82 |
| 1/1 | 1/1 | 8.2 | 8.3 |
| 0/1 | 1/1 | 3.42 | 3.54 |
| 1/1 | 1/1 | 6.96 | 7.14 |
| 1/1 | 1/1 | 3.07 | 3.31 |
| 1/1 | 1/1 | 5.38 | 5.63 |
| 1/1 | 1/1 | 2.69 | 2.95 |
| 0/1 | 1/1 | 1.91 | 2.19 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 2.31 | 2.62 |
| 0/1 | 1/1 | 3.14 | 3.47 |
| 1/1 | 1/1 | 6.83 | 7.16 |
| 0/1 | 1/1 | 2.28 | 2.73 |
| 1/1 | 0/1 | 3.19 | 2.17 |
| 1/1 | 1/1 | 8.01 | 7.35 |
| 1/1 | 1/1 | 5.65 | 5.2 |
| 1/1 | 1/1 | 3.43 | 3.4 |
| 0/1 | 1/1 | 2.52 | 2.54 |
| 1/1 | 1/1 | 6.59 | 6.62 |
| 1/1 | 1/1 | 3.22 | 3.26 |
| 1/1 | 1/1 | 6.53 | 6.09 |
| 1/1 | 1/1 | 3.33 | 2.97 |
| 1/1 | 1/1 | 6.64 | 6.37 |
| 0/1 | 1/1 | 4.33 | 5.01 |
| 1/1 | 1/1 | 5.56 | 3.72 |
| 1/1 | 0/1 | 2.75 | 2.12 |
| 0/1 | 1/1 | 3.2 | 4.61 |
| 1/1 | 1/1 | 6.88 | 4.86 |
| 1/1 | 0/1 | 4.8 | 3.04 |
| 1/1 | 1/1 | 6.75 | 5.8 |
| 1/1 | 0/1 | 3.84 | 2.41 |
| 1/1 | 1/1 | 3.26 | 2.7 |
| 1/1 | 1/1 | 4.68 | 4.15 |
| 1/1 | 1/1 | 6.79 | 6.42 |
| 1/1 | 1/1 | 6.64 | 6.29 |
| 1/1 | 1/1 | 3.79 | 5.61 |
| 0/1 | 1/1 | 2.26 | 4.15 |
| 0/1 | 1/1 | 3.39 | 5.44 |
| 1/1 | 1/1 | 6.13 | 4.99 |
| 1/1 | 1/1 | 7.49 | 6.91 |
| 1/1 | 1/1 | 8.59 | 8.11 |
| 1/1 | 1/1 | 6.82 | 6.38 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 3.74 | 3.35 |
| 1/1 | 1/1 | 6.66 | 6.28 |
| 0/1 | 1/1 | 5.37 | 5.01 |
| 1/1 | 1/1 | 7.68 | 7.37 |
| 1/1 | 1/1 | 8.69 | 8.4 |
| 1/1 | 1/1 | 8.03 | 7.84 |
| 1/1 | 1/1 | 5.75 | 5.57 |
| 0/1 | 1/1 | 6.85 | 6.71 |
| 1/1 | 1/1 | 5 | 4.91 |
| 1/1 | 1/1 | 7.52 | 7.44 |
| 1/1 | 1/1 | 7.43 | 7.35 |
| 1/1 | 1/1 | 9.8 | 9.76 |
| 1/1 | 1/1 | 7.12 | 7.08 |
| 1/1 | 1/1 | 7.04 | 7.01 |
| 1/1 | 1/1 | 7.07 | 7.14 |
| 1/1 | 1/1 | 6.76 | 6.85 |
| 1/1 | 1/1 | 5.85 | 7.97 |
| 0/1 | 1/1 | 5.13 | 7.58 |
| 1/1 | 1/1 | 6.13 | 4.99 |
| 1/1 | 1/1 | 7.49 | 6.91 |
| 1/1 | 1/1 | 8.59 | 8.11 |
| 1/1 | 1/1 | 6.82 | 6.38 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 3.74 | 3.35 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.66 | 6.28 |
| 0/1 | 1/1 | 5.37 | 5.01 |
| 1/1 | 1/1 | 7.68 | 7.37 |
| 1/1 | 1/1 | 8.69 | 8.4 |
| 1/1 | 1/1 | 8.03 | 7.84 |
| 1/1 | 1/1 | 5.75 | 5.57 |
| 0/1 | 1/1 | 6.85 | 6.71 |
| 1/1 | 1/1 | 5 | 4.91 |
| 1/1 | 1/1 | 7.52 | 7.44 |
| 1/1 | 1/1 | 7.43 | 7.35 |
| 1/1 | 1/1 | 9.8 | 9.76 |
| 1/1 | 1/1 | 7.12 | 7.08 |
| 1/1 | 1/1 | 7.04 | 7.01 |
| 1/1 | 1/1 | 7.07 | 7.14 |
| 1/1 | 1/1 | 6.76 | 6.85 |
| 1/1 | 1/1 | 5.85 | 7.97 |
| 0/1 | 1/1 | 5.13 | 7.58 |
| 1/1 | 1/1 | 10.19 | 9.25 |
| 1/1 | 1/1 | 9.31 | 8.87 |
| 0/1 | 1/1 | 5.78 | 5.85 |
| 1/1 | 1/1 | 5.48 | 5.59 |
| 1/1 | 1/1 | 9.97 | 10.12 |
| 1/1 | 1/1 | 6.35 | 6.51 |
| 1/1 | 1/1 | 4.96 | 3.45 |
| 1/1 | 1/1 | 7.34 | 6.32 |
| 1/1 | 1/1 | 5.51 | 4.58 |
| 1/1 | 1/1 | 6.68 | 5.77 |
| 1/1 | 0/1 | 3.51 | 2.71 |
| 1/1 | 1/1 | 6.03 | 5.3 |
| 1/1 | 1/1 | 9.39 | 8.7 |
| 1/1 | 1/1 | 5.42 | 4.76 |
| 1/1 | 1/1 | 8.21 | 7.81 |
| 1/1 | 1/1 | 7.9 | 7.5 |
| 1/1 | 1/1 | 7.69 | 7.32 |
| 1/1 | 1/1 | 10.95 | 10.59 |
| 1/1 | 1/1 | 3.13 | 2.77 |
| 1/1 | 1/1 | 10.01 | 9.64 |
| 1/1 | 1/1 | 8.31 | 7.98 |
| 1/1 | 1/1 | 3.43 | 3.09 |
| 1/1 | 1/1 | 8.13 | 7.81 |
| 1/1 | 1/1 | 9.01 | 8.69 |
| 1/1 | 1/1 | 4.85 | 4.56 |
| 0/1 | 1/1 | 2.24 | 2.01 |
| 1/1 | 1/1 | 9.78 | 9.73 |
| 0/1 | 1/1 | 3.98 | 4.24 |
| 1/1 | 1/1 | 10.03 | 10.32 |
| 1/1 | 1/1 | 12.01 | 12.37 |
| 1/1 | 1/1 | 5.33 | 5.7 |
| 1/1 | 1/1 | 3.68 | 4.16 |
| 1/1 | 1/1 | 3.76 | 4.28 |
| 0/1 | 1/1 | 2.2 | 3.01 |
| 1/1 | 1/1 | 5.48 | 6.34 |
| 1/1 | 1/1 | 4.6 | 5.48 |
| 1/1 | 0/1 | 6.3 | 4.86 |
| 1/1 | 1/1 | 3.34 | 2.98 |
| 1/1 | 1/1 | 7.21 | 6.93 |
| 1/1 | 1/1 | 7.58 | 5.92 |
| 1/1 | 1/1 | 5.88 | 4.84 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.84 | 3.2 |
| 1/1 | 0/1 | 3.62 | 3.01 |
| 1/1 | 1/1 | 3.98 | 3.39 |
| 1/1 | 1/1 | 5.96 | 5.38 |
| 1/1 | 1/1 | 6.05 | 5.54 |
| 0/1 | 1/1 | 2.8 | 4.92 |
| 1/1 | 1/1 | 4.77 | 3.2 |
| 1/1 | 1/1 | 4.98 | 4.44 |
| 1/1 | 1/1 | 4.33 | 6.22 |
| 0/1 | 1/1 | 3.3 | 5.27 |
| 1/1 | 1/1 | 3.23 | 5.34 |
| 0/1 | 1/1 | 2.38 | 4.52 |
| 1/1 | 1/1 | 3.82 | 6.6 |
| 1/1 | 0/1 | 5.68 | 4.11 |
| 1/1 | 1/1 | 6.26 | 5.33 |
| 0/1 | 1/1 | 5.15 | 4.31 |
| 1/1 | 1/1 | 5.11 | 4.47 |
| 1/1 | 1/1 | 4.33 | 3.76 |
| 1/1 | 1/1 | 5.99 | 5.6 |
| 1/1 | 0/1 | 2.95 | 2.57 |
| 1/1 | 1/1 | 4.04 | 3.65 |
| 1/1 | 1/1 | 7.93 | 7.58 |
| 0/1 | 1/1 | 3.03 | 2.68 |
| 1/1 | 0/1 | 4.34 | 3.16 |
| 1/1 | 1/1 | 6.41 | 5.43 |
| 1/1 | 1/1 | 6.35 | 5.7 |
| 1/1 | 1/1 | 6.99 | 6.58 |
| 1/1 | 1/1 | 8.02 | 7.63 |
| 1/1 | 1/1 | 4.53 | 4.26 |
| 1/1 | 1/1 | 4.61 | 4.42 |
| 0/1 | 1/1 | 3.29 | 3.22 |
| 1/1 | 1/1 | 5.68 | 5.61 |
| 0/1 | 1/1 | 4.39 | 4.38 |
| 1/1 | 1/1 | 2.13 | 2.13 |
| 1/1 | 1/1 | 4.52 | 3.81 |
| 1/1 | 1/1 | 7.1 | 6.51 |
| 1/1 | 1/1 | 8.96 | 8.62 |
| 1/1 | 1/1 | 5.04 | 4.72 |
| 0/1 | 1/1 | 5.54 | 5.39 |
| 1/1 | 1/1 | 6.94 | 6.98 |
| 1/1 | 1/1 | 6.38 | 6.43 |
| 1/1 | 1/1 | 8.27 | 8.33 |
| 1/1 | 1/1 | 7.8 | 8.06 |
| 1/1 | 1/1 | 8.54 | 8.81 |
| 0/1 | 1/1 | 2.49 | 2.77 |
| 0/1 | 1/1 | 5.16 | 5.57 |
| 1/1 | 1/1 | 7.09 | 7.55 |
| 1/1 | 0/1 | 5.36 | 4.34 |
| 1/1 | 1/1 | 6.62 | 6.05 |
| 1/1 | 1/1 | 8.72 | 8.27 |
| 1/1 | 1/1 | 7.04 | 6.63 |
| 1/1 | 1/1 | 8.56 | 8.31 |
| 1/1 | 1/1 | 4.35 | 4.16 |
| 1/1 | 1/1 | 3.57 | 3.4 |
| 1/1 | 1/1 | 9.89 | 9.78 |
| 1/1 | 1/1 | 10.72 | 10.62 |
| 0/1 | 1/1 | 2.51 | 2.43 |
| 0/1 | 1/1 | 2.74 | 2.69 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.11 | 10.07 |
| 1/1 | 1/1 | 6.73 | 6.91 |
| 1/1 | 1/1 | 4.36 | 6.87 |
| 1/1 | 1/1 | 2.98 | 5.57 |
| 1/1 | 1/1 | 7.22 | 4.39 |
| 1/1 | 0/1 | 5.24 | 2.46 |
| 1/1 | 1/1 | 8.44 | 5.69 |
| 1/1 | 1/1 | 7.82 | 5.44 |
| 1/1 | 0/1 | 5 | 3.05 |
| 1/1 | 1/1 | 6.73 | 4.87 |
| 1/1 | 1/1 | 6.66 | 4.87 |
| 1/1 | 1/1 | 7.12 | 5.36 |
| 1/1 | 1/1 | 8.58 | 6.93 |
| 0/1 | 1/1 | 5.54 | 6.11 |
| 1/1 | 1/1 | 3.35 | 3.92 |
| 1/1 | 1/1 | 6.91 | 6.09 |
| 1/1 | 1/1 | 6.05 | 5.41 |
| 1/1 | 1/1 | 10.1 | 10 |
| 0/1 | 1/1 | 4.96 | 4.96 |
| 1/1 | 1/1 | 4.4 | 4.53 |
| 1/1 | 1/1 | 6.46 | 6.64 |
| 1/1 | 1/1 | 5.94 | 6.24 |
| 0/1 | 1/1 | 2.24 | 2.55 |
| 1/1 | 1/1 | 9.08 | 9.44 |
| 1/1 | 1/1 | 3.62 | 6.05 |
| 1/1 | 1/1 | 5.09 | 3.32 |
| 1/1 | 1/1 | 6.23 | 5.52 |
| 1/1 | 1/1 | 8.15 | 6.96 |
| 1/1 | 1/1 | 6.15 | 5.07 |
| 1/1 | 1/1 | 2.3 | 2.33 |
| 1/1 | 1/1 | 4.34 | 2.81 |
| 1/1 | 1/1 | 3.75 | 3.29 |
| 1/1 | 1/1 | 6.18 | 5.75 |
| 1/1 | 1/1 | 2.36 | 1.98 |
| 1/1 | 1/1 | 6.4 | 6.25 |
| 1/1 | 1/1 | 10.06 | 10.03 |
| 0/1 | 1/1 | 2.56 | 2.82 |
| 0/1 | 1/1 | 3.49 | 3.76 |
| 0/1 | 1/1 | 3.59 | 3.88 |
| 1/1 | 1/1 | 6.37 | 6.69 |
| 1/1 | 1/1 | 6.58 | 6.91 |
| 1/1 | 1/1 | 3.66 | 4.02 |
| 0/1 | 1/1 | 2.64 | 3.07 |
| 1/1 | 1/1 | 2.39 | 2.85 |
| 1/1 | 1/1 | 6.82 | 7.32 |
| 0/1 | 1/1 | 2.98 | 3.49 |
| 0/1 | 1/1 | 3 | 3.78 |
| 1/1 | 0/1 | 4.95 | 2.57 |
| 1/1 | 1/1 | 6.22 | 5.04 |
| 0/1 | 1/1 | 4.07 | 5 |
| 1/1 | 1/1 | 6.2 | 7.13 |
| 0/1 | 1/1 | 2.39 | 2.34 |
| 0/1 | 1/1 | 2.79 | 3.21 |
| 1/1 | 1/1 | 2.46 | 2.91 |
| 1/1 | 1/1 | 7.56 | 8.13 |
| 1/1 | 1/1 | 6.79 | 7.43 |
| 0/1 | 1/1 | 3.68 | 4.48 |
| 1/1 | 1/1 | 7.24 | 8.08 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.43 | 8.4 |
| 1/1 | 1/1 | 6.76 | 7.78 |
| 1/1 | 1/1 | 5.69 | 6.75 |
| 1/1 | 0/1 | 6.66 | 2.52 |
| 1/1 | 0/1 | 5.35 | 4.52 |
| 1/1 | 1/1 | 5.65 | 4.83 |
| 1/1 | 1/1 | 4.91 | 4.14 |
| 1/1 | 1/1 | 4.49 | 4.69 |
| 0/1 | 1/1 | 4.97 | 5.87 |
| 1/1 | 1/1 | 6 | 3.51 |
| 1/1 | 0/1 | 3.54 | 2.08 |
| 1/1 | 1/1 | 7.55 | 7.09 |
| 1/1 | 1/1 | 3.68 | 3.34 |
| 1/1 | 1/1 | 7.44 | 7.95 |
| 1/1 | 1/1 | 12.09 | 12.75 |
| 1/1 | 1/1 | 5.09 | 8.14 |
| 1/1 | 1/1 | 3.32 | 6.62 |
| 1/1 | 1/1 | 5.1 | 4.65 |
| 0/1 | 1/1 | 4.66 | 5.03 |
| 1/1 | 1/1 | 6.93 | 7.53 |
| 0/1 | 1/1 | 4.87 | 7.81 |
| 0/1 | 1/1 | 3.31 | 7.4 |
| 1/1 | 1/1 | 2.83 | 2.82 |
| 1/1 | 1/1 | 7.05 | 7.18 |
| 0/1 | 1/1 | 3.86 | 4 |
| 0/1 | 1/1 | 6.11 | 6.47 |
| 0/1 | 1/1 | 5.76 | 6.18 |
| 1/1 | 1/1 | 3.02 | 3.68 |
| 1/1 | 1/1 | 6.65 | 7.51 |
| 1/1 | 1/1 | 8.11 | 6 |
| 1/1 | 1/1 | 5.31 | 3.94 |
| 1/1 | 1/1 | 9.85 | 8.68 |
| 1/1 | 0/1 | 6.32 | 4.1 |
| 1/1 | 0/1 | 3.91 | 2.82 |
| 1/1 | 1/1 | 3.5 | 4.5 |
| 0/1 | 1/1 | 5.71 | 6.81 |
| 1/1 | 0/1 | 7.23 | 4.55 |
| 0/1 | 1/1 | 4.6 | 5.22 |
| 1/1 | 1/1 | 6.82 | 7.55 |
| 0/1 | 1/1 | 2.47 | 3.39 |
| 1/1 | 0/1 | 4.87 | 2.67 |
| 1/1 | 0/1 | 4.35 | 2.37 |
| 1/1 | 1/1 | 5.61 | 4.28 |
| 1/1 | 1/1 | 5.43 | 4.23 |
| 1/1 | 1/1 | 3.77 | 5.65 |
| 1/1 | 1/1 | 4.61 | 2.91 |
| 1/1 | 1/1 | 7.26 | 6.34 |
| 1/1 | 1/1 | 5.64 | 4.73 |
| 1/1 | 1/1 | 5.36 | 4.59 |
| 1/1 | 1/1 | 3.86 | 3.3 |
| 1/1 | 1/1 | 5.14 | 4.58 |
| 1/1 | 1/1 | 5.92 | 5.42 |
| 1/1 | 1/1 | 7.05 | 3.4 |
| 1/1 | 1/1 | 7.07 | 6.95 |
| 1/1 | 1/1 | 10.93 | 10.89 |
| 1/1 | 1/1 | 4.7 | 4.72 |
| 0/1 | 1/1 | 7.09 | 7.53 |
| 1/1 | 1/1 | 11.07 | 9.23 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 9.92 | 8.7 |
| 1/1 | 1/1 | 7.05 | 5.65 |
| 1/1 | 1/1 | 4.49 | 3.96 |
| 1/1 | 1/1 | 8.59 | 8.1 |
| 1/1 | 1/1 | 4.04 | 6.22 |
| 1/1 | 1/1 | 6.15 | 4.97 |
| 1/1 | 1/1 | 9.78 | 9.35 |
| 1/1 | 0/1 | 2.91 | 2.49 |
| 1/1 | 1/1 | 4.57 | 4.17 |
| 1/1 | 1/1 | 5.39 | 5 |
| 1/1 | 1/1 | 2.83 | 2.77 |
| 1/1 | 1/1 | 4.78 | 4.73 |
| 1/1 | 1/1 | 6.71 | 6.06 |
| 1/1 | 1/1 | 6.38 | 5.84 |
| 0/1 | 1/1 | 3.07 | 2.91 |
| 1/1 | 1/1 | 9.55 | 9.4 |
| 1/1 | 1/1 | 7.43 | 7.42 |
| 1/1 | 1/1 | 6.73 | 6.98 |
| 1/1 | 1/1 | 5.43 | 5.7 |
| 1/1 | 1/1 | 8.7 | 8.64 |
| 1/1 | 1/1 | 5.87 | 5.97 |
| 0/1 | 1/1 | 2.28 | 3.39 |
| 1/1 | 1/1 | 9.01 | 8.79 |
| 0/1 | 1/1 | 4.9 | 4.81 |
| 1/1 | 1/1 | 5.54 | 5.98 |
| 1/1 | 1/1 | 7.18 | 7.66 |
| 1/1 | 1/1 | 8.23 | 8.72 |
| 0/1 | 1/1 | 2.82 | 3.62 |
| 1/1 | 1/1 | 5.79 | 9.25 |
| 1/1 | 1/1 | 4.56 | 8.43 |
| 1/1 | 1/1 | 6.55 | 6.45 |
| 1/1 | 1/1 | 6.36 | 6.33 |
| 1/1 | 1/1 | 5.12 | 5.12 |
| 0/1 | 1/1 | 4.66 | 4.66 |
| 0/1 | 1/1 | 3.6 | 4.25 |
| 0/1 | 1/1 | 5.57 | 6.39 |
| 0/1 | 1/1 | 4.88 | 8 |
| 1/1 | 1/1 | 3.09 | 2.97 |
| 0/1 | 1/1 | 2.1 | 2.03 |
| 1/1 | 1/1 | 4.72 | 4.65 |
| 0/1 | 1/1 | 4.81 | 4.74 |
| 1/1 | 1/1 | 4.71 | 4.66 |
| 0/1 | 1/1 | 6.35 | 6.37 |
| 1/1 | 1/1 | 4.19 | 4.21 |
| 1/1 | 1/1 | 3.79 | 3.83 |
| 0/1 | 1/1 | 3.17 | 3.35 |
| 1/1 | 1/1 | 7.49 | 7.78 |
| 0/1 | 1/1 | 4.8 | 5.21 |
| 0/1 | 1/1 | 3.52 | 4.15 |
| 1/1 | 1/1 | 6.15 | 6.9 |
| 1/1 | 1/1 | 2.42 | 3.19 |
| 1/1 | 1/1 | 6.78 | 7.63 |
| 1/1 | 1/1 | 7.05 | 8.02 |
| 0/1 | 1/1 | 2.91 | 3.89 |
| 0/1 | 1/1 | 4.64 | 5.62 |
| 1/1 | 1/1 | 5.9 | 6.9 |
| 1/1 | 1/1 | 4.53 | 3.66 |
| 1/1 | 1/1 | 3.34 | 2.92 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.63 | 9.34 |
| 1/1 | 1/1 | 8.44 | 8.28 |
| 1/1 | 1/1 | 3.33 | 3.17 |
| 1/1 | 1/1 | 9.34 | 9.22 |
| 0/1 | 1/1 | 2.77 | 2.85 |
| 0/1 | 1/1 | 3.73 | 6.3 |
| 1/1 | 1/1 | 6.21 | 5.74 |
| 1/1 | 1/1 | 7.15 | 6.7 |
| 1/1 | 1/1 | 7.64 | 7.23 |
| 1/1 | 1/1 | 6.26 | 5.86 |
| 1/1 | 1/1 | 7.18 | 6.81 |
| 1/1 | 1/1 | 4.78 | 4.53 |
| 1/1 | 1/1 | 8.35 | 8.19 |
| 1/1 | 1/1 | 13.76 | 13.64 |
| 1/1 | 1/1 | 5.96 | 6.02 |
| 1/1 | 1/1 | 9.25 | 9.32 |
| 1/1 | 1/1 | 6.49 | 6.6 |
| 0/1 | 1/1 | 8.62 | 8.73 |
| 1/1 | 1/1 | 2.73 | 2.86 |
| 1/1 | 1/1 | 5.54 | 5.77 |
| 1/1 | 1/1 | 5.18 | 5.59 |
| 0/1 | 1/1 | 2.95 | 3.37 |
| 1/1 | 1/1 | 7.91 | 8.36 |
| 1/1 | 1/1 | 4.7 | 5.15 |
| 1/1 | 1/1 | 8.38 | 8.84 |
| 1/1 | 1/1 | 5.91 | 8.68 |
| 1/1 | 1/1 | 5.91 | 8.68 |
| 1/1 | 1/1 | 3.84 | 6.88 |
| 1/1 | 1/1 | 8.08 | 6.31 |
| 1/1 | 1/1 | 6.81 | 5.87 |
| 1/1 | 1/1 | 7.11 | 6.53 |
| 1/1 | 0/1 | 4.26 | 3.33 |
| 1/1 | 1/1 | 5.65 | 4.88 |
| 1/1 | 1/1 | 3.48 | 2.92 |
| 1/1 | 1/1 | 6.2 | 5.96 |
| 1/1 | 1/1 | 6.5 | 6.35 |
| 0/1 | 1/1 | 7.07 | 6.94 |
| 1/1 | 1/1 | 6.35 | 6.36 |
| 1/1 | 1/1 | 4.97 | 5.03 |
| 1/1 | 1/1 | 5.97 | 6.09 |
| 0/1 | 1/1 | 3.53 | 3.69 |
| 1/1 | 1/1 | 2.84 | 3.02 |
| 1/1 | 1/1 | 7.64 | 7.85 |
| 1/1 | 1/1 | 5.13 | 5.36 |
| 1/1 | 1/1 | 6.19 | 6.44 |
| 1/1 | 1/1 | 3.48 | 3.73 |
| 1/1 | 1/1 | 7.16 | 7.41 |
| 1/1 | 1/1 | 4.6 | 7.11 |
| 1/1 | 1/1 | 3.17 | 6.18 |
| 1/1 | 0/1 | 9.26 | 2.53 |
| 1/1 | 1/1 | 8.89 | 5.6 |
| 1/1 | 1/1 | 8.01 | 5.16 |
| 1/1 | 0/1 | 8.93 | 6.14 |
| 1/1 | 1/1 | 5.43 | 4.39 |
| 1/1 | 1/1 | 6.76 | 6.21 |
| 1/1 | 1/1 | 4.57 | 4.33 |
| 1/1 | 1/1 | 6.07 | 5.84 |
| 1/1 | 1/1 | 8.94 | 8.78 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.26 | 6.22 |
| 1/1 | 1/1 | 6.32 | 6.3 |
| 1/1 | 1/1 | 3.35 | 3.33 |
| 0/1 | 1/1 | 5.23 | 5.27 |
| 1/1 | 1/1 | 12.36 | 12.47 |
| 1/1 | 1/1 | 4.38 | 4.5 |
| 1/1 | 1/1 | 4.75 | 4.89 |
| 1/1 | 1/1 | 6.66 | 6.93 |
| 0/1 | 1/1 | 3.28 | 3.57 |
| 1/1 | 1/1 | 3.6 | 3.93 |
| 1/1 | 1/1 | 11.31 | 11.68 |
| 1/1 | 1/1 | 6.73 | 7.13 |
| 0/1 | 1/1 | 4.66 | 5.06 |
| 0/1 | 1/1 | 2.53 | 2.93 |
| 0/1 | 1/1 | 4.6 | 5.04 |
| 1/1 | 1/1 | 5.22 | 5.73 |
| 1/1 | 1/1 | 10.84 | 11.35 |
| 1/1 | 1/1 | 3.84 | 4.41 |
| 1/1 | 1/1 | 6.72 | 7.32 |
| 1/1 | 1/1 | 6.38 | 7.01 |
| 1/1 | 1/1 | 6.5 | 7.13 |
| 1/1 | 1/1 | 4.8 | 7.43 |
| 1/1 | 1/1 | 5.86 | 8.56 |
| 1/1 | 1/1 | 6.21 | 9.18 |
| 0/1 | 1/1 | 3.27 | 6.27 |
| 1/1 | 1/1 | 5.28 | 4.27 |
| 1/1 | 1/1 | 7.61 | 7.19 |
| 1/1 | 1/1 | 7.45 | 7.07 |
| 0/1 | 1/1 | 6.64 | 6.31 |
| 1/1 | 1/1 | 6.87 | 6.61 |
| 1/1 | 1/1 | 7.81 | 7.66 |
| 1/1 | 1/1 | 4.75 | 4.64 |
| 0/1 | 1/1 | 6.8 | 6.69 |
| 1/1 | 1/1 | 6.36 | 6.36 |
| 0/1 | 1/1 | 4.11 | 4.11 |
| 1/1 | 1/1 | 6.63 | 6.63 |
| 0/1 | 1/1 | 5.09 | 5.16 |
| 1/1 | 1/1 | 7.27 | 7.41 |
| 0/1 | 1/1 | 2.63 | 4.83 |
| 1/1 | 1/1 | 4.52 | 6.76 |
| 1/1 | 1/1 | 5.08 | 7.6 |
| 1/1 | 1/1 | 4.76 | 7.58 |
| 1/1 | 1/1 | 7.42 | 5.47 |
| 1/1 | 0/1 | 3.83 | 2.15 |
| 1/1 | 0/1 | 4.24 | 2.94 |
| 1/1 | 1/1 | 6.41 | 5.1 |
| 1/1 | 1/1 | 5.2 | 4.08 |
| 1/1 | 1/1 | 4.37 | 3.38 |
| 1/1 | 1/1 | 3.6 | 2.75 |
| 0/1 | 1/1 | 2.37 | 3.7 |
| 1/1 | 1/1 | 4.7 | 4.18 |
| 1/1 | 1/1 | 7.09 | 6.78 |
| 1/1 | 1/1 | 10.48 | 10.2 |
| 1/1 | 1/1 | 8.05 | 7.84 |
| 1/1 | 1/1 | 6.77 | 6.58 |
| 1/1 | 1/1 | 6.44 | 6.39 |
| 0/1 | 1/1 | 4.68 | 4.7 |
| 1/1 | 1/1 | 5.87 | 5.91 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 7.32 | 7.38 |
| 1/1 | 1/1 | 3.83 | 4.11 |
| 0/1 | 1/1 | 6.07 | 6.38 |
| 1/1 | 1/1 | 4.04 | 4.37 |
| 1/1 | 1/1 | 7.49 | 7.86 |
| 0/1 | 1/1 | 2.32 | 2.7 |
| 0/1 | 1/1 | 2.38 | 2.87 |
| 1/1 | 1/1 | 2.47 | 2.99 |
| 1/1 | 1/1 | 5.18 | 5.7 |
| 0/1 | 1/1 | 2.03 | 2.68 |
| 1/1 | 1/1 | 4.65 | 7.35 |
| 0/1 | 1/1 | 3.11 | 5.81 |
| 0/1 | 1/1 | 1.89 | 4.76 |
| 0/1 | 1/1 | 2.23 | 5.3 |
| 1/1 | 1/1 | 5.6 | 2.69 |
| 1/1 | 1/1 | 6.91 | 4.59 |
| 1/1 | 1/1 | 7.37 | 5.05 |
| 1/1 | 1/1 | 5.61 | 3.44 |
| 1/1 | 1/1 | 8.29 | 6.29 |
| 1/1 | 1/1 | 8.07 | 6.08 |
| 1/1 | 1/1 | 9.47 | 7.5 |
| 1/1 | 1/1 | 6.7 | 4.76 |
| 1/1 | 1/1 | 7.67 | 5.77 |
| 1/1 | 1/1 | 6.8 | 4.9 |
| 1/1 | 1/1 | 7.94 | 6.14 |
| 1/1 | 1/1 | 8.1 | 6.35 |
| 0/1 | 1/1 | 4.36 | 4.85 |
| 1/1 | 1/1 | 6.2 | 6.81 |
| 1/1 | 1/1 | 5.87 | 3.01 |
| 1/1 | 0/1 | 5.31 | 2.7 |
| 1/1 | 1/1 | 5.72 | 3.32 |
| 1/1 | 1/1 | 8.05 | 5.82 |
| 1/1 | 1/1 | 6.12 | 3.97 |
| 1/1 | 1/1 | 8.25 | 6.19 |
| 1/1 | 1/1 | 5.55 | 3.51 |
| 1/1 | 1/1 | 9.01 | 6.98 |
| 1/1 | 1/1 | 7.02 | 7.41 |
| 0/1 | 1/1 | 4.47 | 4.87 |
| 1/1 | 1/1 | 4.18 | 4.79 |
| 1/1 | 1/1 | 8.86 | 9.81 |
| 1/1 | 1/1 | 7.11 | 9.11 |
| 1/1 | 0/1 | 5.45 | 3.04 |
| 1/1 | 1/1 | 6.58 | 4.69 |
| 1/1 | 0/1 | 5.1 | 3.67 |
| 1/1 | 1/1 | 7.42 | 6.16 |
| 1/1 | 1/1 | 4.89 | 3.62 |
| 0/1 | 1/1 | 2.3 | 3.35 |
| 1/1 | 0/1 | 8.18 | 3.02 |
| 1/1 | 0/1 | 7.2 | 2.09 |
| 1/1 | 0/1 | 6.89 | 2.86 |
| 1/1 | 0/1 | 7.54 | 5.72 |
| 1/1 | 1/1 | 4.96 | 3.16 |
| 1/1 | 0/1 | 4.84 | 3.26 |
| 1/1 | 0/1 | 4.66 | 3.17 |
| 1/1 | 0/1 | 4.53 | 3.12 |
| 1/1 | 0/1 | 5.04 | 3.72 |
| 1/1 | 0/1 | 3.04 | 1.89 |
| 1/1 | 1/1 | 7.17 | 6.03 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 3.44 | 2.54 |
| 1/1 | 1/1 | 7.87 | 7.11 |
| 1/1 | 1/1 | 4.92 | 4.24 |
| 1/1 | 1/1 | 6.31 | 5.82 |
| 1/1 | 1/1 | 10.29 | 9.87 |
| 1/1 | 1/1 | 6.01 | 5.79 |
| 1/1 | 1/1 | 6.44 | 6.23 |
| 1/1 | 1/1 | 5.21 | 5.14 |
| 0/1 | 1/1 | 4.12 | 4.12 |
| 0/1 | 1/1 | 4.17 | 4.18 |
| 1/1 | 1/1 | 5.8 | 5.82 |
| 1/1 | 1/1 | 5.92 | 6.12 |
| 0/1 | 1/1 | 2.36 | 3.45 |
| 1/1 | 0/1 | 11.99 | 3.06 |
| 1/1 | 1/1 | 11.51 | 5.78 |
| 1/1 | 1/1 | 12.79 | 7.69 |
| 1/1 | 0/1 | 7.9 | 3 |
| 1/1 | 1/1 | 12.28 | 7.53 |
| 1/1 | 0/1 | 6.85 | 3.21 |
| 1/1 | 1/1 | 4.49 | 2.96 |
| 1/1 | 0/1 | 5.87 | 4.7 |
| 1/1 | 1/1 | 5.95 | 5.13 |
| 1/1 | 1/1 | 7.17 | 6.38 |
| 1/1 | 1/1 | 7.39 | 6.62 |
| 1/1 | 0/1 | 7.92 | 7.25 |
| 1/1 | 1/1 | 5.86 | 5.21 |
| 1/1 | 1/1 | 7.51 | 6.88 |
| 1/1 | 1/1 | 6.52 | 5.93 |
| 1/1 | 1/1 | 7.17 | 6.62 |
| 1/1 | 1/1 | 9.53 | 9.05 |
| 1/1 | 1/1 | 10.64 | 10.18 |
| 1/1 | 1/1 | 5.97 | 5.58 |
| 0/1 | 1/1 | 2.85 | 4.56 |
| 0/1 | 1/1 | 3.45 | 5.67 |
| 0/1 | 1/1 | 2.83 | 5.37 |
| 1/1 | 1/1 | 10.09 | 8.91 |
| 1/1 | 1/1 | 5.86 | 5.44 |
| 0/1 | 1/1 | 5.63 | 5.41 |
| 1/1 | 1/1 | 4.86 | 4.81 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 8.02 | 7.6 |
| 1/1 | 1/1 | 6.3 | 5.96 |
| 1/1 | 1/1 | 8.17 | 7.94 |
| 1/1 | 1/1 | 5.65 | 5.49 |
| 1/1 | 1/1 | 6.68 | 6.57 |
| 1/1 | 1/1 | 8.95 | 8.86 |
| 0/1 | 1/1 | 6.28 | 6.27 |
| 1/1 | 1/1 | 7.03 | 7.28 |
| 0/1 | 1/1 | 6.07 | 6.39 |
| 0/1 | 1/1 | 4.75 | 5.12 |
| 0/1 | 1/1 | 7.4 | 7.86 |
| 1/1 | 1/1 | 7.71 | 8.31 |
| 0/1 | 1/1 | 6.67 | 9.47 |
| 1/1 | 1/1 | 5.97 | 8.83 |
| 1/1 | 1/1 | 6.79 | 9.88 |
| 0/1 | 1/1 | 4.56 | 7.86 |
| 0/1 | 1/1 | 2.46 | 6.38 |
| 0/1 | 1/1 | 5.58 | 9.88 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.54 | 10.02 |
| 0/1 | 1/1 | 4.69 | 9.33 |
| 1/1 | 1/1 | 5.69 | 10.9 |
| 1/1 | 1/1 | 10.42 | 4.64 |
| 1/1 | 1/1 | 9.51 | 3.81 |
| 1/1 | 1/1 | 8.9 | 3.53 |
| 1/1 | 0/1 | 8.32 | 3.25 |
| 1/1 | 1/1 | 10.13 | 5.25 |
| 1/1 | 1/1 | 9.31 | 4.46 |
| 1/1 | 1/1 | 10.79 | 6.11 |
| 1/1 | 1/1 | 13.36 | 10.76 |
| 1/1 | 0/1 | 6.22 | 4.3 |
| 1/1 | 1/1 | 6.31 | 5.73 |
| 0/1 | 1/1 | 3.73 | 3.18 |
| 1/1 | 1/1 | 10.79 | 8.44 |
| 1/1 | 1/1 | 11.62 | 9.28 |
| 0/1 | 1/1 | 3.6 | 5.42 |
| 1/1 | 0/1 | 5.48 | 3.72 |
| 1/1 | 1/1 | 3.44 | 2.66 |
| 1/1 | 1/1 | 4.46 | 3.69 |
| 1/1 | 1/1 | 4.93 | 6.61 |
| 1/1 | 1/1 | 3.19 | 2.45 |
| 1/1 | 1/1 | 10.63 | 10.41 |
| 1/1 | 1/1 | 10.84 | 10.99 |
| 1/1 | 1/1 | 8.05 | 8.32 |
| 1/1 | 1/1 | 6.51 | 6.91 |
| 1/1 | 1/1 | 4.52 | 7.38 |
| 0/1 | 1/1 | 4.16 | 7.39 |
| 1/1 | 1/1 | 8.37 | 5.94 |
| 1/1 | 1/1 | 4.87 | 3.08 |
| 1/1 | 0/1 | 5.84 | 4.11 |
| 1/1 | 1/1 | 8.77 | 7.32 |
| 1/1 | 1/1 | 9.26 | 10.09 |
| 1/1 | 1/1 | 8.58 | 7.71 |
| 1/1 | 1/1 | 10.76 | 10.48 |
| 1/1 | 1/1 | 8.85 | 8.71 |
| 1/1 | 1/1 | 6.14 | 6.08 |
| 1/1 | 1/1 | 3.91 | 4.18 |
| 1/1 | 1/1 | 3.3 | 5.74 |
| 1/1 | 1/1 | 8.81 | 7.87 |
| 1/1 | 1/1 | 4.53 | 4.16 |
| 1/1 | 1/1 | 7.06 | 6.85 |
| 1/1 | 1/1 | 9.08 | 9.17 |
| 0/1 | 1/1 | 7.31 | 7.41 |
| 1/1 | 1/1 | 7.85 | 6.69 |
| 1/1 | 1/1 | 7.61 | 7.5 |
| 1/1 | 1/1 | 5.13 | 7.17 |
| 1/1 | 1/1 | 3.83 | 5.91 |
| 0/1 | 1/1 | 3.13 | 5.66 |
| 1/1 | 1/1 | 6.13 | 3.4 |
| 1/1 | 0/1 | 5.73 | 3.08 |
| 1/1 | 0/1 | 5.83 | 3.18 |
| 1/1 | 0/1 | 4.94 | 2.4 |
| 1/1 | 0/1 | 5.21 | 3.27 |
| 1/1 | 0/1 | 4.76 | 2.86 |
| 1/1 | 1/1 | 5.87 | 4.02 |
| 1/1 | 0/1 | 3.87 | 2.22 |
| 1/1 | 0/1 | 5.4 | 2.93 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.11 | 6.61 |
| 1/1 | 0/1 | 4.55 | 3.13 |
| 1/1 | 1/1 | 10.15 | 9.59 |
| 1/1 | 0/1 | 2.95 | 2.4 |
| 1/1 | 1/1 | 11.14 | 10.74 |
| 1/1 | 1/1 | 7.69 | 7.34 |
| 1/1 | 1/1 | 9.11 | 8.9 |
| 1/1 | 1/1 | 7.88 | 7.75 |
| 0/1 | 1/1 | 3.84 | 3.9 |
| 0/1 | 1/1 | 8.12 | 8.21 |
| 1/1 | 1/1 | 7.07 | 7.28 |
| 1/1 | 1/1 | 7.07 | 7.31 |
| 1/1 | 1/1 | 6.75 | 7.26 |
| 0/1 | 1/1 | 3.83 | 6.83 |
| 1/1 | 1/1 | 7.46 | 6.21 |
| 1/1 | 0/1 | 4.04 | 3.56 |
| 0/1 | 1/1 | 3.82 | 3.65 |
| 1/1 | 1/1 | 8.95 | 6.51 |
| 1/1 | 1/1 | 11.2 | 9.68 |
| 1/1 | 0/1 | 8.44 | 6.98 |
| 1/1 | 1/1 | 7.31 | 5.96 |
| 1/1 | 1/1 | 6.83 | 5.54 |
| 0/1 | 1/1 | 4.35 | 5.15 |
| 1/1 | 0/1 | 5.75 | 2.84 |
| 1/1 | 1/1 | 7.73 | 5.18 |
| 0/1 | 1/1 | 1.93 | 2.44 |
| 1/1 | 1/1 | 12.52 | 12.26 |
| 0/1 | 1/1 | 3.11 | 3.54 |
| 1/1 | 1/1 | 4.33 | 4.9 |
| 1/1 | 1/1 | 4.66 | 5.3 |
| 1/1 | 1/1 | 9.41 | 10.24 |
| 1/1 | 0/1 | 4.77 | 2.07 |
| 1/1 | 1/1 | 7.07 | 4.96 |
| 1/1 | 0/1 | 6.37 | 4.61 |
| 0/1 | 1/1 | 3.56 | 4.11 |
| 0/1 | 1/1 | 3.52 | 4.29 |
| 1/1 | 1/1 | 6.76 | 3.59 |
| 1/1 | 1/1 | 7.69 | 5.3 |
| 1/1 | 1/1 | 5.43 | 3.3 |
| 1/1 | 1/1 | 8.79 | 6.69 |
| 1/1 | 1/1 | 8.6 | 8.61 |
| 1/1 | 1/1 | 10.93 | 11.25 |
| 1/1 | 1/1 | 4.97 | 6.13 |
| 1/1 | 0/1 | 5.05 | 3.56 |
| 1/1 | 0/1 | 3.89 | 2.45 |
| 1/1 | 0/1 | 8.02 | 6.93 |
| 1/1 | 1/1 | 3.22 | 2.76 |
| 1/1 | 1/1 | 7.06 | 8.73 |
| 1/1 | 1/1 | 6.55 | 8.29 |
| 1/1 | 1/1 | 6.45 | 4.84 |
| 1/1 | 1/1 | 6.69 | 5.67 |
| 1/1 | 1/1 | 5.53 | 4.67 |
| 1/1 | 1/1 | 6.86 | 6.27 |
| 1/1 | 1/1 | 6.94 | 6.5 |
| 1/1 | 1/1 | 8.41 | 8.45 |
| 1/1 | 1/1 | 8.87 | 8.92 |
| 1/1 | 1/1 | 7.25 | 7.35 |
| 0/1 | 1/1 | 4.49 | 4.6 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.77 | 6.92 |
| 1/1 | 1/1 | 7.31 | 7.49 |
| 1/1 | 1/1 | 3.44 | 3.64 |
| 1/1 | 1/1 | 10.92 | 11.13 |
| 1/1 | 1/1 | 3.19 | 3.39 |
| 1/1 | 1/1 | 11.94 | 12.15 |
| 1/1 | 1/1 | 7.25 | 7.55 |
| 1/1 | 1/1 | 8.88 | 9.35 |
| 1/1 | 1/1 | 6.56 | 7.16 |
| 0/1 | 1/1 | 2.2 | 2.83 |
| 0/1 | 1/1 | 3.3 | 6.19 |
| 1/1 | 1/1 | 4.24 | 7.16 |
| 1/1 | 1/1 | 7.75 | 6.79 |
| 1/1 | 1/1 | 4.5 | 3.73 |
| 1/1 | 1/1 | 9.19 | 8.58 |
| 1/1 | 1/1 | 7.23 | 6.92 |
| 1/1 | 1/1 | 4.07 | 3.79 |
| 1/1 | 1/1 | 7.98 | 7.78 |
| 1/1 | 1/1 | 10.3 | 10.18 |
| 1/1 | 1/1 | 6.51 | 6.49 |
| 1/1 | 1/1 | 10.27 | 10.35 |
| 1/1 | 1/1 | 5.47 | 5.59 |
| 0/1 | 1/1 | 2.64 | 2.81 |
| 1/1 | 1/1 | 5.03 | 7.24 |
| 1/1 | 1/1 | 4.34 | 6.59 |
| 1/1 | 1/1 | 5.53 | 5.03 |
| 1/1 | 1/1 | 7.6 | 7.62 |
| 0/1 | 1/1 | 8.02 | 8.22 |
| 1/1 | 1/1 | 3.32 | 3.57 |
| 1/1 | 1/1 | 6.72 | 7.08 |
| 1/1 | 1/1 | 9.39 | 10.02 |
| 1/1 | 1/1 | 3.89 | 3.25 |
| 1/1 | 1/1 | 4.04 | 3.47 |
| 1/1 | 1/1 | 2.73 | 2.61 |
| 1/1 | 1/1 | 7.68 | 7.62 |
| 0/1 | 1/1 | 3.04 | 3.01 |
| 1/1 | 1/1 | 3.53 | 3.55 |
| 1/1 | 1/1 | 7.32 | 7.36 |
| 0/1 | 1/1 | 2.14 | 2.35 |
| 1/1 | 1/1 | 8.09 | 8.32 |
| 0/1 | 1/1 | 6.5 | 6.78 |
| 0/1 | 1/1 | 2.69 | 3.05 |
| 0/1 | 1/1 | 5.93 | 6.35 |
| 1/1 | 1/1 | 6.39 | 6.86 |
| 0/1 | 1/1 | 2.61 | 3.08 |
| 1/1 | 1/1 | 3.22 | 5.92 |
| 1/1 | 1/1 | 3.99 | 7.18 |
| 0/1 | 1/1 | 2.94 | 6.25 |
| 0/1 | 1/1 | 3.55 | 7.17 |
| 1/1 | 0/1 | 5.11 | 2.3 |
| 1/1 | 0/1 | 7.69 | 5.57 |
| 1/1 | 1/1 | 5.81 | 3.78 |
| 1/1 | 1/1 | 8.23 | 6.24 |
| 1/1 | 1/1 | 8.91 | 7.22 |
| 1/1 | 1/1 | 10.17 | 8.44 |
| 1/1 | 1/1 | 5.43 | 4.8 |
| 1/1 | 1/1 | 8.65 | 10.09 |
| 1/1 | 1/1 | 5.51 | 7.07 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.8 | 7.59 |
| 0/1 | 1/1 | 3.05 | 4.89 |
| 1/1 | 1/1 | 6.32 | 8.54 |
| 1/1 | 1/1 | 9.52 | 6.57 |
| 1/1 | 1/1 | 9.28 | 6.54 |
| 1/1 | 1/1 | 7.52 | 4.94 |
| 1/1 | 1/1 | 8.21 | 5.82 |
| 1/1 | 0/1 | 6.14 | 4.03 |
| 1/1 | 1/1 | 8.78 | 6.68 |
| 1/1 | 0/1 | 5.14 | 3.21 |
| 1/1 | 1/1 | 6.76 | 7.17 |
| 1/1 | 1/1 | 5.34 | 5.83 |
| 1/1 | 1/1 | 6.94 | 7.74 |
| 1/1 | 1/1 | 7.26 | 8.13 |
| 1/1 | 0/1 | 5.91 | 5.19 |
| 1/1 | 1/1 | 7.29 | 6.89 |
| 1/1 | 1/1 | 7.29 | 6.89 |
| 1/1 | 1/1 | 6.95 | 6.6 |
| 1/1 | 1/1 | 7.17 | 6.96 |
| 1/1 | 1/1 | 6.12 | 5.92 |
| 1/1 | 1/1 | 5.94 | 5.79 |
| 1/1 | 1/1 | 3.34 | 3.27 |
| 0/1 | 1/1 | 7.6 | 7.64 |
| 1/1 | 1/1 | 6.16 | 6.2 |
| 1/1 | 1/1 | 8.23 | 8.29 |
| 1/1 | 1/1 | 8.2 | 8.4 |
| 1/1 | 1/1 | 7.51 | 7.83 |
| 1/1 | 1/1 | 4.59 | 4.91 |
| 1/1 | 1/1 | 9.39 | 9.74 |
| 1/1 | 1/1 | 9.39 | 9.74 |
| 1/1 | 0/1 | 5.85 | 4.35 |
| 1/1 | 1/1 | 3.97 | 3.06 |
| 1/1 | 1/1 | 5.01 | 4.48 |
| 1/1 | 1/1 | 5.53 | 5.15 |
| 1/1 | 1/1 | 4.62 | 6.44 |
| 1/1 | 1/1 | 3.25 | 5.52 |
| 1/1 | 0/1 | 4.77 | 2.99 |
| 1/1 | 1/1 | 4.51 | 3.59 |
| 1/1 | 0/1 | 3.7 | 3.02 |
| 1/1 | 1/1 | 3.37 | 4.94 |
| 1/1 | 0/1 | 7.06 | 6.41 |
| 0/1 | 1/1 | 5.61 | 5.21 |
| 1/1 | 1/1 | 8.61 | 8.31 |
| 1/1 | 1/1 | 5.92 | 5.67 |
| 1/1 | 1/1 | 7.83 | 7.6 |
| 0/1 | 1/1 | 2.44 | 2.29 |
| 1/1 | 1/1 | 13.6 | 13.56 |
| 1/1 | 1/1 | 7.63 | 7.61 |
| 1/1 | 1/1 | 8.68 | 8.68 |
| 1/1 | 1/1 | 11.17 | 11.23 |
| 0/1 | 1/1 | 2.81 | 2.92 |
| 0/1 | 1/1 | 2.3 | 2.53 |
| 1/1 | 1/1 | 9.18 | 9.5 |
| 1/1 | 1/1 | 5.18 | 8.26 |
| 1/1 | 0/1 | 2.78 | 2.09 |
| 1/1 | 1/1 | 3.02 | 2.91 |
| 1/1 | 1/1 | 6.07 | 6.23 |
| 0/1 | 1/1 | 2.45 | 2.82 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.61 | 4.31 |
| 1/1 | 1/1 | 6.07 | 6.06 |
| 1/1 | 1/1 | 11.74 | 11.76 |
| 1/1 | 1/1 | 6.34 | 6.46 |
| 1/1 | 1/1 | 4.79 | 3.62 |
| 1/1 | 1/1 | 5.25 | 4.48 |
| 1/1 | 1/1 | 8.93 | 8.63 |
| 1/1 | 1/1 | 8.44 | 8.19 |
| 1/1 | 1/1 | 6.24 | 6.04 |
| 0/1 | 1/1 | 4.06 | 3.96 |
| 1/1 | 1/1 | 7.28 | 7.22 |
| 1/1 | 1/1 | 5.21 | 7.48 |
| 1/1 | 1/1 | 3.46 | 5.78 |
| 1/1 | 1/1 | 10.06 | 8.56 |
| 1/1 | 1/1 | 8.4 | 7.65 |
| 1/1 | 1/1 | 8.48 | 7.85 |
| 1/1 | 0/1 | 2.58 | 2.33 |
| 0/1 | 1/1 | 2.6 | 2.66 |
| 0/1 | 1/1 | 5.71 | 5.77 |
| 1/1 | 1/1 | 4.19 | 4.25 |
| 0/1 | 1/1 | 2.91 | 3 |
| 0/1 | 1/1 | 2.45 | 2.81 |
| 1/1 | 1/1 | 8.12 | 8.53 |
| 1/1 | 1/1 | 5.6 | 8.16 |
| 1/1 | 1/1 | 9.72 | 7.83 |
| 1/1 | 1/1 | 8.83 | 7.44 |
| 1/1 | 1/1 | 10.74 | 9.53 |
| 1/1 | 1/1 | 4.19 | 5.5 |
| 0/1 | 1/1 | 4.38 | 5.83 |
| 1/1 | 0/1 | 6.29 | 3.06 |
| 1/1 | 1/1 | 8.18 | 5.31 |
| 0/1 | 1/1 | 4.36 | 4.63 |
| 1/1 | 1/1 | 9.29 | 9.6 |
| 0/1 | 1/1 | 3.05 | 3.47 |
| 0/1 | 1/1 | 2.88 | 4.36 |
| 1/1 | 0/1 | 6.83 | 3.58 |
| 1/1 | 1/1 | 8.2 | 5.27 |
| 1/1 | 1/1 | 8.22 | 5.47 |
| 1/1 | 1/1 | 7.22 | 4.51 |
| 1/1 | 1/1 | 6.15 | 3.53 |
| 1/1 | 1/1 | 9.7 | 7.29 |
| 1/1 | 1/1 | 9.23 | 6.85 |
| 1/1 | 0/1 | 6.02 | 3.69 |
| 1/1 | 1/1 | 8.97 | 6.64 |
| 1/1 | 1/1 | 9.5 | 7.22 |
| 1/1 | 1/1 | 7.77 | 5.53 |
| 1/1 | 1/1 | 8.3 | 6.09 |
| 1/1 | 1/1 | 8.16 | 5.96 |
| 1/1 | 1/1 | 9.3 | 7.11 |
| 1/1 | 1/1 | 9.75 | 7.56 |
| 1/1 | 1/1 | 8.91 | 6.76 |
| 1/1 | 1/1 | 8.72 | 6.58 |
| 1/1 | 1/1 | 4.1 | 4 |
| 0/1 | 1/1 | 4.6 | 4.56 |
| 1/1 | 1/1 | 5.93 | 6.15 |
| 1/1 | 1/1 | 10.6 | 12 |
| 1/1 | 1/1 | 9.76 | 7.92 |
| 1/1 | 0/1 | 3.23 | 2.12 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.21 | 3.21 |
| 1/1 | 0/1 | 4.51 | 3.51 |
| 1/1 | 0/1 | 3.2 | 2.41 |
| 1/1 | 0/1 | 2.94 | 2.23 |
| 1/1 | 1/1 | 8.11 | 4.3 |
| 1/1 | 1/1 | 7.48 | 3.73 |
| 1/1 | 0/1 | 5.92 | 2.71 |
| 1/1 | 1/1 | 7.63 | 4.53 |
| 1/1 | 1/1 | 8.29 | 5.37 |
| 1/1 | 1/1 | 6.88 | 3.96 |
| 1/1 | 1/1 | 8.24 | 5.33 |
| 1/1 | 0/1 | 5.32 | 2.47 |
| 1/1 | 0/1 | 5.3 | 2.46 |
| 1/1 | 1/1 | 6.43 | 3.6 |
| 1/1 | 1/1 | 7.3 | 4.54 |
| 1/1 | 1/1 | 7.82 | 5.09 |
| 1/1 | 0/1 | 5.3 | 2.6 |
| 1/1 | 1/1 | 3.74 | 3.07 |
| 1/1 | 1/1 | 6.44 | 5.78 |
| 1/1 | 1/1 | 8.19 | 7.56 |
| 1/1 | 1/1 | 4.87 | 4.33 |
| 1/1 | 1/1 | 7.97 | 7.46 |
| 1/1 | 0/1 | 2.72 | 2.22 |
| 1/1 | 1/1 | 4.3 | 3.8 |
| 1/1 | 1/1 | 8.59 | 8.12 |
| 1/1 | 1/1 | 9.4 | 8.93 |
| 1/1 | 0/1 | 2.36 | 1.97 |
| 1/1 | 1/1 | 13.46 | 13.1 |
| 1/1 | 1/1 | 5.1 | 4.77 |
| 1/1 | 1/1 | 4.69 | 4.42 |
| 1/1 | 1/1 | 4.23 | 3.96 |
| 1/1 | 1/1 | 2.6 | 2.35 |
| 1/1 | 1/1 | 7.5 | 7.26 |
| 1/1 | 1/1 | 6.08 | 5.86 |
| 0/1 | 1/1 | 3.06 | 2.91 |
| 0/1 | 1/1 | 3.77 | 3.62 |
| 1/1 | 1/1 | 4.45 | 4.31 |
| 0/1 | 1/1 | 3.19 | 3.16 |
| 1/1 | 1/1 | 3.21 | 3.35 |
| 1/1 | 1/1 | 8.06 | 8.3 |
| 0/1 | 1/1 | 4.53 | 4.89 |
| 0/1 | 1/1 | 2.44 | 3.08 |
| 0/1 | 1/1 | 3.46 | 5.22 |
| 1/1 | 1/1 | 8.43 | 7.09 |
| 0/1 | 1/1 | 4.73 | 4.29 |
| 1/1 | 1/1 | 5.82 | 5.38 |
| 1/1 | 1/1 | 6.69 | 6.38 |
| 1/1 | 1/1 | 4.91 | 2.69 |
| 1/1 | 0/1 | 3.77 | 2.51 |
| 1/1 | 1/1 | 4.24 | 5.19 |
| 1/1 | 1/1 | 6.09 | 4.21 |
| 1/1 | 1/1 | 4.3 | 3.35 |
| 1/1 | 1/1 | 6.86 | 6 |
| 1/1 | 0/1 | 3.17 | 2.36 |
| 1/1 | 1/1 | 7.58 | 6.9 |
| 0/1 | 1/1 | 6.8 | 6.49 |
| 0/1 | 1/1 | 4.42 | 4.26 |
| 1/1 | 1/1 | 9.45 | 9.36 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.86 | 6.8 |
| 1/1 | 1/1 | 5.14 | 5.15 |
| 0/1 | 1/1 | 6.36 | 6.47 |
| 1/1 | 1/1 | 8.99 | 9.27 |
| 1/1 | 1/1 | 9.16 | 9.51 |
| 1/1 | 1/1 | 9.51 | 9.9 |
| 1/1 | 0/1 | 4.69 | 3.04 |
| 1/1 | 1/1 | 5.54 | 4.61 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 4 | 3.44 |
| 0/1 | 1/1 | 3.98 | 3.44 |
| 1/1 | 1/1 | 3.38 | 4.98 |
| 0/1 | 1/1 | 2.31 | 4.11 |
| 0/1 | 1/1 | 2.26 | 4.07 |
| 1/1 | 1/1 | 4.03 | 5.91 |
| 0/1 | 1/1 | 2.94 | 4.88 |
| 0/1 | 1/1 | 2.78 | 4.75 |
| 0/1 | 1/1 | 3.54 | 5.54 |
| 1/1 | 1/1 | 6.98 | 6.42 |
| 1/1 | 1/1 | 3.59 | 7.81 |
| 1/1 | 1/1 | 5.44 | 5.12 |
| 1/1 | 1/1 | 5.16 | 5.01 |
| 0/1 | 1/1 | 4.95 | 4.86 |
| 0/1 | 1/1 | 4.9 | 5 |
| 0/1 | 1/1 | 5.62 | 5.74 |
| 1/1 | 1/1 | 9.05 | 9.27 |
| 1/1 | 1/1 | 5.29 | 5.74 |
| 1/1 | 1/1 | 6.7 | 7.17 |
| 0/1 | 1/1 | 6.44 | 6.95 |
| 1/1 | 1/1 | 4.75 | 5.28 |
| 1/1 | 1/1 | 7.8 | 8.35 |
| 1/1 | 1/1 | 7.65 | 8.24 |
| 1/1 | 1/1 | 7.34 | 7.95 |
| 0/1 | 1/1 | 6.15 | 6.94 |
| 1/1 | 1/1 | 5.8 | 8.86 |
| 1/1 | 1/1 | 6.06 | 4.19 |
| 1/1 | 1/1 | 4.55 | 6.28 |
| 1/1 | 1/1 | 6.09 | 3.85 |
| 0/1 | 1/1 | 3.95 | 4.84 |
| 1/1 | 0/1 | 4.86 | 3.56 |
| 1/1 | 1/1 | 7.65 | 6.91 |
| 1/1 | 1/1 | 4.64 | 4.06 |
| 1/1 | 1/1 | 6.16 | 5.66 |
| 0/1 | 1/1 | 2.81 | 2.53 |
| 1/1 | 1/1 | 4.28 | 4.03 |
| 1/1 | 1/1 | 7.98 | 7.79 |
| 0/1 | 1/1 | 4.08 | 6 |
| 1/1 | 1/1 | 8.47 | 7.27 |
| 1/1 | 1/1 | 3.89 | 3.05 |
| 1/1 | 0/1 | 3.33 | 2.59 |
| 1/1 | 1/1 | 5.29 | 4.69 |
| 1/1 | 1/1 | 8.27 | 7.82 |
| 1/1 | 1/1 | 4.75 | 4.3 |
| 1/1 | 1/1 | 8 | 7.81 |
| 1/1 | 1/1 | 6.37 | 6.2 |
| 1/1 | 1/1 | 4.17 | 4.06 |
| 0/1 | 1/1 | 2.49 | 4.62 |
| 0/1 | 1/1 | 3.77 | 6.39 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.71 | 5.84 |
| 1/1 | 0/1 | 6.7 | 3.45 |
| 1/1 | 0/1 | 6.24 | 3.69 |
| 1/1 | 0/1 | 4.97 | 2.68 |
| 0/1 | 1/1 | 4.85 | 4.84 |
| 1/1 | 0/1 | 5.6 | 2.62 |
| 1/1 | 1/1 | 4.37 | 4.76 |
| 1/1 | 1/1 | 4.12 | 5.13 |
| 1/1 | 1/1 | 4.29 | 5.39 |
| 1/1 | 0/1 | 4.15 | 3.32 |
| 1/1 | 1/1 | 3.08 | 2.64 |
| 1/1 | 1/1 | 4.08 | 3.74 |
| 0/1 | 1/1 | 4.4 | 4.31 |
| 1/1 | 1/1 | 6.27 | 6.41 |
| 1/1 | 1/1 | 6.47 | 6.63 |
| 1/1 | 1/1 | 7.09 | 7.29 |
| 0/1 | 1/1 | 2.31 | 4.81 |
| 1/1 | 1/1 | 5.75 | 8.3 |
| 1/1 | 1/1 | 6.35 | 4.83 |
| 1/1 | 0/1 | 3.54 | 2.52 |
| 1/1 | 1/1 | 5.04 | 4.38 |
| 1/1 | 1/1 | 8.25 | 7.83 |
| 1/1 | 1/1 | 6.28 | 5.86 |
| 1/1 | 1/1 | 6.9 | 4.32 |
| 1/1 | 0/1 | 4.21 | 2.34 |
| 1/1 | 1/1 | 5.77 | 4.12 |
| 1/1 | 1/1 | 5.69 | 6.23 |
| 1/1 | 1/1 | 4.51 | 5.1 |
| 0/1 | 1/1 | 4.07 | 4.67 |
| 0/1 | 1/1 | 3.23 | 3.87 |
| 0/1 | 1/1 | 2.03 | 2.68 |
| 1/1 | 1/1 | 6.87 | 7.67 |
| 1/1 | 1/1 | 5.84 | 6.74 |
| 0/1 | 1/1 | 3.84 | 5.03 |
| 1/1 | 1/1 | 4.12 | 5.45 |
| 0/1 | 1/1 | 3.15 | 4.5 |
| 1/1 | 0/1 | 4.87 | 3.25 |
| 0/1 | 1/1 | 2.74 | 4.42 |
| 0/1 | 1/1 | 3.06 | 5.16 |
| 1/1 | 1/1 | 11.75 | 10.16 |
| 1/1 | 1/1 | 10.68 | 9.65 |
| 1/1 | 1/1 | 5.63 | 5.06 |
| 1/1 | 1/1 | 4.37 | 4.25 |
| 1/1 | 1/1 | 7.92 | 7.86 |
| 0/1 | 1/1 | 3.66 | 3.81 |
| 1/1 | 1/1 | 3.95 | 4.18 |
| 1/1 | 1/1 | 4.89 | 5.71 |
| 0/1 | 1/1 | 2.5 | 3.38 |
| 0/1 | 1/1 | 5.08 | 5.97 |
| 1/1 | 1/1 | 3.74 | 6.81 |
| 1/1 | 1/1 | 3.37 | 6.46 |
| 1/1 | 1/1 | 4.68 | 7.81 |
| 0/1 | 1/1 | 4.12 | 7.4 |
| 0/1 | 1/1 | 4.17 | 8.26 |
| 1/1 | 1/1 | 5.55 | 4.74 |
| 1/1 | 1/1 | 3.17 | 2.78 |
| 0/1 | 1/1 | 4.22 | 3.95 |
| 1/1 | 1/1 | 3.27 | 3.06 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.5 | 2.29 |
| 1/1 | 1/1 | 3.71 | 3.66 |
| 1/1 | 1/1 | 4.95 | 4.97 |
| 1/1 | 1/1 | 10.85 | 10.93 |
| 1/1 | 1/1 | 8.74 | 8.83 |
| 1/1 | 1/1 | 2.6 | 2.76 |
| 1/1 | 1/1 | 8.67 | 8.88 |
| 1/1 | 1/1 | 3.98 | 4.2 |
| 0/1 | 1/1 | 7.09 | 7.35 |
| 0/1 | 1/1 | 1.84 | 2.15 |
| 1/1 | 1/1 | 10.55 | 7.15 |
| 1/1 | 1/1 | 5.12 | 4.88 |
| 1/1 | 1/1 | 8.35 | 8.1 |
| 1/1 | 1/1 | 5.94 | 5.7 |
| 1/1 | 1/1 | 9.02 | 8.8 |
| 1/1 | 1/1 | 6.32 | 6.19 |
| 1/1 | 1/1 | 9.01 | 8.88 |
| 1/1 | 1/1 | 7.45 | 7.4 |
| 1/1 | 1/1 | 6.56 | 6.53 |
| 1/1 | 1/1 | 8.44 | 8.43 |
| 1/1 | 1/1 | 7.9 | 7.89 |
| 1/1 | 1/1 | 9.03 | 9.04 |
| 1/1 | 1/1 | 8.41 | 8.43 |
| 1/1 | 1/1 | 5.58 | 5.63 |
| 0/1 | 1/1 | 5.56 | 5.84 |
| 1/1 | 1/1 | 3.88 | 4.21 |
| 1/1 | 1/1 | 7.38 | 7.75 |
| 0/1 | 1/1 | 5.66 | 6.1 |
| 0/1 | 1/1 | 4.06 | 4.61 |
| 1/1 | 1/1 | 11.41 | 11.95 |
| 1/1 | 1/1 | 5.71 | 6.5 |
| 1/1 | 0/1 | 10.06 | 2.75 |
| 1/1 | 0/1 | 10.48 | 3.28 |
| 1/1 | 1/1 | 11.8 | 5.34 |
| 1/1 | 0/1 | 10.15 | 3.77 |
| 1/1 | 0/1 | 10.9 | 4.53 |
| 1/1 | 1/1 | 7.9 | 4.68 |
| 1/1 | 1/1 | 9 | 7.41 |
| 1/1 | 1/1 | 5.59 | 5.13 |
| 1/1 | 1/1 | 5.76 | 5.61 |
| 1/1 | 1/1 | 5.53 | 4.42 |
| 1/1 | 1/1 | 5.42 | 4.32 |
| 1/1 | 1/1 | 9.11 | 8.12 |
| 1/1 | 1/1 | 5.07 | 4.18 |
| 1/1 | 1/1 | 5.81 | 4.95 |
| 1/1 | 0/1 | 5.73 | 4.87 |
| 1/1 | 1/1 | 7.59 | 6.8 |
| 1/1 | 1/1 | 11.23 | 10.48 |
| 1/1 | 1/1 | 8.15 | 7.41 |
| 1/1 | 0/1 | 7.27 | 6.57 |
| 1/1 | 1/1 | 6.42 | 5.79 |
| 1/1 | 1/1 | 6.34 | 5.83 |
| 1/1 | 1/1 | 8.94 | 8.5 |
| 1/1 | 1/1 | 4.96 | 4.58 |
| 1/1 | 1/1 | 6.25 | 5.99 |
| 0/1 | 1/1 | 5.27 | 5.02 |
| 1/1 | 1/1 | 7.06 | 6.85 |
| 1/1 | 1/1 | 5 | 4.78 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.75 | 6.55 |
| 1/1 | 1/1 | 6.04 | 5.87 |
| 1/1 | 1/1 | 8.35 | 8.19 |
| 1/1 | 1/1 | 3.53 | 3.37 |
| 1/1 | 1/1 | 7.61 | 7.47 |
| 1/1 | 1/1 | 6.67 | 6.54 |
| 1/1 | 1/1 | 7.6 | 7.48 |
| 0/1 | 1/1 | 4.14 | 4.04 |
| 0/1 | 1/1 | 4.23 | 4.14 |
| 1/1 | 1/1 | 5.88 | 5.79 |
| 0/1 | 1/1 | 7.53 | 7.46 |
| 1/1 | 1/1 | 10.31 | 10.25 |
| 1/1 | 1/1 | 3.42 | 3.37 |
| 1/1 | 1/1 | 6.5 | 6.45 |
| 1/1 | 1/1 | 6.19 | 6.17 |
| 1/1 | 1/1 | 5.79 | 5.78 |
| 0/1 | 1/1 | 5 | 4.99 |
| 0/1 | 1/1 | 3.66 | 5.99 |
| 0/1 | 1/1 | 4.11 | 7 |
| 1/1 | 1/1 | 4.99 | 5.06 |
| 1/1 | 1/1 | 10.49 | 10.72 |
| 1/1 | 1/1 | 5.43 | 5.73 |
| 0/1 | 1/1 | 3.66 | 4.15 |
| 0/1 | 1/1 | 2.69 | 3.28 |
| 1/1 | 1/1 | 6.9 | 7.62 |
| 0/1 | 1/1 | 3.55 | 4.52 |
| 1/1 | 1/1 | 5.51 | 6.58 |
| 1/1 | 1/1 | 5.68 | 9.14 |
| 1/1 | 1/1 | 5.41 | 9.28 |
| 1/1 | 1/1 | 11.06 | 10.36 |
| 1/1 | 1/1 | 3.87 | 3.55 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 0/1 | 1/1 | 4.09 | 3.96 |
| 1/1 | 1/1 | 8.79 | 8.72 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 0/1 | 1/1 | 7.49 | 7.51 |
| 1/1 | 1/1 | 2.22 | 2.38 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 0/1 | 1/1 | 4.84 | 5.08 |
| 1/1 | 1/1 | 5.72 | 6.03 |
| 1/1 | 1/1 | 7.44 | 7.79 |
| 0/1 | 1/1 | 2.31 | 2.68 |
| 1/1 | 1/1 | 6.6 | 7 |
| 0/1 | 1/1 | 2.86 | 3.28 |
| 0/1 | 1/1 | 3.29 | 5.71 |
| 1/1 | 1/1 | 9.08 | 5.1 |
| 1/1 | 1/1 | 8.25 | 4.34 |
| 1/1 | 1/1 | 9.24 | 5.49 |
| 1/1 | 0/1 | 7.74 | 4.76 |
| 1/1 | 1/1 | 13.19 | 13.55 |
| 1/1 | 0/1 | 5.03 | 3.09 |
| 1/1 | 1/1 | 4.85 | 6.11 |
| 1/1 | 0/1 | 5.1 | 4.14 |
| 1/1 | 1/1 | 6.03 | 5.43 |
| 1/1 | 1/1 | 6.84 | 6.5 |
| 1/1 | 1/1 | 5.19 | 5.16 |
| 1/1 | 1/1 | 7.13 | 7.23 |
| 1/1 | 0/1 | 5.79 | 3.16 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 7.97 | 5.67 |
| 1/1 | 0/1 | 4.13 | 2.13 |
| 1/1 | 1/1 | 7.61 | 5.91 |
| 1/1 | 1/1 | 8.99 | 7.29 |
| 1/1 | 0/1 | 4.87 | 3.18 |
| 1/1 | 1/1 | 6.71 | 5.04 |
| 1/1 | 1/1 | 8.97 | 7.39 |
| 1/1 | 1/1 | 5.64 | 6.23 |
| 1/1 | 1/1 | 8.6 | 7.2 |
| 1/1 | 1/1 | 6.43 | 5.41 |
| 1/1 | 0/1 | 8.5 | 7.73 |
| 1/1 | 1/1 | 9 | 8.51 |
| 1/1 | 1/1 | 6.47 | 6 |
| 1/1 | 1/1 | 6.62 | 8.41 |
| 1/1 | 1/1 | 7.67 | 3.55 |
| 1/1 | 1/1 | 8.26 | 4.77 |
| 1/1 | 1/1 | 8.78 | 5.36 |
| 1/1 | 1/1 | 9.03 | 5.7 |
| 1/1 | 1/1 | 7.89 | 4.85 |
| 1/1 | 1/1 | 10.58 | 9.75 |
| 1/1 | 1/1 | 9.21 | 8.46 |
| 1/1 | 1/1 | 10.08 | 9.4 |
| 1/1 | 1/1 | 7.97 | 7.65 |
| 1/1 | 1/1 | 5.2 | 4.98 |
| 1/1 | 1/1 | 5.38 | 5.18 |
| 1/1 | 1/1 | 6.41 | 6.25 |
| 1/1 | 1/1 | 6.2 | 6.42 |
| 0/1 | 1/1 | 3.59 | 3.87 |
| 1/1 | 1/1 | 7.16 | 4.69 |
| 1/1 | 0/1 | 5.97 | 4.32 |
| 1/1 | 1/1 | 5.02 | 3.53 |
| 0/1 | 1/1 | 5.45 | 6.32 |
| 1/1 | 0/1 | 7.65 | 6.08 |
| 1/1 | 1/1 | 4.1 | 3.22 |
| 1/1 | 1/1 | 3.3 | 5.23 |
| 1/1 | 1/1 | 4.33 | 3.06 |
| 1/1 | 1/1 | 4.41 | 3.71 |
| 1/1 | 1/1 | 5.33 | 4.66 |
| 1/1 | 1/1 | 5.99 | 5.44 |
| 1/1 | 1/1 | 6.59 | 6.1 |
| 1/1 | 1/1 | 6.43 | 5.95 |
| 1/1 | 1/1 | 5.69 | 5.21 |
| 1/1 | 1/1 | 4.38 | 3.94 |
| 1/1 | 1/1 | 5.16 | 4.93 |
| 1/1 | 1/1 | 6.85 | 6.69 |
| 1/1 | 1/1 | 6.34 | 5.33 |
| 1/1 | 1/1 | 6.28 | 5.29 |
| 1/1 | 1/1 | 5.24 | 4.31 |
| 1/1 | 0/1 | 3.08 | 2.16 |
| 1/1 | 0/1 | 5.27 | 4.41 |
| 1/1 | 1/1 | 6.67 | 5.98 |
| 1/1 | 1/1 | 6.24 | 5.67 |
| 1/1 | 1/1 | 6.02 | 5.47 |
| 1/1 | 1/1 | 3.7 | 3.17 |
| 1/1 | 0/1 | 2.43 | 1.93 |
| 1/1 | 1/1 | 4.48 | 3.99 |
| 1/1 | 1/1 | 5.39 | 4.94 |
| 1/1 | 1/1 | 5.05 | 4.65 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.28 | 7.87 |
| 1/1 | 1/1 | 7.86 | 7.46 |
| 1/1 | 1/1 | 7.66 | 7.3 |
| 1/1 | 0/1 | 6.15 | 5.87 |
| 1/1 | 1/1 | 5.09 | 4.81 |
| 1/1 | 1/1 | 4.33 | 4.06 |
| 1/1 | 1/1 | 5.01 | 4.74 |
| 1/1 | 1/1 | 4.87 | 4.62 |
| 1/1 | 1/1 | 4.05 | 3.8 |
| 1/1 | 1/1 | 5.31 | 5.08 |
| 1/1 | 1/1 | 5.15 | 4.92 |
| 1/1 | 1/1 | 9.46 | 9.24 |
| 1/1 | 1/1 | 6.23 | 6.01 |
| 1/1 | 1/1 | 8.08 | 7.87 |
| 1/1 | 1/1 | 9.14 | 8.95 |
| 1/1 | 1/1 | 5.83 | 5.65 |
| 1/1 | 1/1 | 10.8 | 10.63 |
| 1/1 | 1/1 | 7.03 | 6.87 |
| 1/1 | 1/1 | 4.41 | 4.25 |
| 0/1 | 1/1 | 2.37 | 2.22 |
| 1/1 | 1/1 | 4.09 | 3.95 |
| 1/1 | 1/1 | 6.48 | 6.34 |
| 1/1 | 1/1 | 6.43 | 6.31 |
| 1/1 | 1/1 | 8.5 | 8.39 |
| 1/1 | 1/1 | 4.62 | 4.51 |
| 1/1 | 1/1 | 8.82 | 8.71 |
| 1/1 | 1/1 | 9.8 | 9.72 |
| 1/1 | 1/1 | 8.67 | 8.58 |
| 1/1 | 1/1 | 8.87 | 8.79 |
| 1/1 | 1/1 | 5.99 | 5.92 |
| 0/1 | 1/1 | 2.59 | 2.57 |
| 1/1 | 1/1 | 10.66 | 10.63 |
| 1/1 | 1/1 | 9.17 | 9.15 |
| 1/1 | 1/1 | 7.65 | 7.64 |
| 0/1 | 1/1 | 2.87 | 2.88 |
| 1/1 | 1/1 | 7.97 | 7.99 |
| 1/1 | 1/1 | 11.44 | 11.46 |
| 1/1 | 1/1 | 7.98 | 8.01 |
| 1/1 | 1/1 | 6.56 | 6.6 |
| 1/1 | 1/1 | 9.51 | 9.56 |
| 1/1 | 1/1 | 5.79 | 5.85 |
| 1/1 | 1/1 | 9.76 | 9.85 |
| 1/1 | 1/1 | 11.86 | 11.94 |
| 1/1 | 1/1 | 4.24 | 6.34 |
| 0/1 | 1/1 | 3 | 5.96 |
| 0/1 | 1/1 | 2.53 | 7.68 |
| 1/1 | 1/1 | 6.13 | 5.01 |
| 1/1 | 1/1 | 8.19 | 7.08 |
| 1/1 | 1/1 | 8.34 | 7.26 |
| 1/1 | 0/1 | 7.47 | 6.45 |
| 1/1 | 1/1 | 3.34 | 2.37 |
| 1/1 | 1/1 | 7.1 | 6.33 |
| 1/1 | 1/1 | 7.52 | 6.77 |
| 1/1 | 0/1 | 3.4 | 2.65 |
| 1/1 | 1/1 | 4.49 | 3.85 |
| 1/1 | 1/1 | 4.06 | 3.45 |
| 1/1 | 1/1 | 6.87 | 6.34 |
| 0/1 | 1/1 | 4.33 | 3.82 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.46 | 5.98 |
| 1/1 | 1/1 | 5.83 | 5.44 |
| 1/1 | 1/1 | 4.16 | 3.9 |
| 1/1 | 1/1 | 8.46 | 8.21 |
| 1/1 | 1/1 | 4.11 | 3.89 |
| 1/1 | 1/1 | 5.32 | 4.43 |
| 1/1 | 1/1 | 7.66 | 7.2 |
| 1/1 | 1/1 | 5.27 | 4.86 |
| 1/1 | 1/1 | 7.64 | 7.32 |
| 0/1 | 1/1 | 3.98 | 3.66 |
| 1/1 | 1/1 | 4.3 | 4.01 |
| 1/1 | 1/1 | 7.76 | 7.55 |
| 0/1 | 1/1 | 7.01 | 6.85 |
| 1/1 | 1/1 | 6.59 | 6.45 |
| 0/1 | 1/1 | 4.39 | 4.41 |
| 0/1 | 1/1 | 7.91 | 7.96 |
| 1/1 | 1/1 | 8.43 | 8.58 |
| 0/1 | 1/1 | 2.85 | 5.47 |
| 0/1 | 1/1 | 2.19 | 5.06 |
| 1/1 | 1/1 | 8.02 | 5.88 |
| 1/1 | 0/1 | 5.98 | 4.86 |
| 1/1 | 0/1 | 7.47 | 6.4 |
| 1/1 | 0/1 | 2.99 | 1.95 |
| 1/1 | 1/1 | 5.65 | 5.46 |
| 1/1 | 1/1 | 9.32 | 9.28 |
| 1/1 | 1/1 | 10.38 | 10.35 |
| 1/1 | 1/1 | 9.38 | 9.38 |
| 1/1 | 1/1 | 7.03 | 9.77 |
| 1/1 | 1/1 | 4.69 | 7.75 |
| 1/1 | 0/1 | 3.49 | 2.42 |
| 1/1 | 1/1 | 5.07 | 4.21 |
| 1/1 | 1/1 | 3.11 | 3.02 |
| 1/1 | 1/1 | 4.12 | 6.56 |
| 1/1 | 1/1 | 5.99 | 5.16 |
| 1/1 | 1/1 | 5.83 | 5 |
| 1/1 | 1/1 | 5.1 | 4.82 |
| 1/1 | 1/1 | 8.07 | 7.99 |
| 1/1 | 1/1 | 5.53 | 5.49 |
| 1/1 | 1/1 | 9.56 | 9.62 |
| 0/1 | 1/1 | 2.96 | 6.55 |
| 1/1 | 0/1 | 5.1 | 3.86 |
| 1/1 | 1/1 | 6.51 | 5.49 |
| 1/1 | 1/1 | 7.91 | 7.07 |
| 1/1 | 0/1 | 3.69 | 2.94 |
| 1/1 | 1/1 | 8.79 | 8.1 |
| 1/1 | 1/1 | 6.24 | 5.58 |
| 1/1 | 1/1 | 5.52 | 4.92 |
| 1/1 | 1/1 | 3.36 | 2.8 |
| 1/1 | 1/1 | 6.36 | 5.8 |
| 1/1 | 1/1 | 8.1 | 7.61 |
| 1/1 | 1/1 | 6.75 | 6.39 |
| 1/1 | 1/1 | 7.23 | 6.87 |
| 1/1 | 1/1 | 8.22 | 7.86 |
| 1/1 | 1/1 | 5.22 | 4.89 |
| 1/1 | 1/1 | 10.87 | 10.68 |
| 1/1 | 1/1 | 4.92 | 4.76 |
| 1/1 | 0/1 | 6.35 | 2.73 |
| 1/1 | 1/1 | 5.84 | 3 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.88 | 2.29 |
| 0/1 | 1/1 | 2.98 | 2.79 |
| 0/1 | 1/1 | 2.66 | 2.58 |
| 1/1 | 1/1 | 8.07 | 8.05 |
| 1/1 | 1/1 | 7.33 | 7.35 |
| 1/1 | 1/1 | 6.82 | 6.91 |
| 0/1 | 1/1 | 3.7 | 3.94 |
| 0/1 | 1/1 | 2.72 | 2.97 |
| 0/1 | 1/1 | 3.24 | 3.56 |
| 1/1 | 1/1 | 5.76 | 6.11 |
| 0/1 | 1/1 | 1.79 | 2.58 |
| 1/1 | 1/1 | 4.78 | 3.33 |
| 1/1 | 1/1 | 10.51 | 9.45 |
| 1/1 | 1/1 | 9.06 | 8.21 |
| 1/1 | 1/1 | 11.75 | 11.18 |
| 1/1 | 1/1 | 6.82 | 6.28 |
| 1/1 | 1/1 | 9.98 | 9.47 |
| 1/1 | 1/1 | 6.64 | 6.2 |
| 1/1 | 1/1 | 10.91 | 10.18 |
| 1/1 | 1/1 | 5.09 | 4.76 |
| 0/1 | 1/1 | 5.7 | 5.48 |
| 1/1 | 1/1 | 7.81 | 7.69 |
| 1/1 | 1/1 | 6.53 | 6.41 |
| 0/1 | 1/1 | 5.45 | 5.46 |
| 1/1 | 1/1 | 3.32 | 3.36 |
| 1/1 | 1/1 | 7.78 | 7.91 |
| 1/1 | 1/1 | 5.52 | 5.7 |
| 0/1 | 1/1 | 2.3 | 2.52 |
| 1/1 | 1/1 | 6.33 | 6.6 |
| 1/1 | 1/1 | 4.51 | 7.02 |
| 1/1 | 1/1 | 6.33 | 4.89 |
| 1/1 | 1/1 | 5.46 | 4.51 |
| 1/1 | 1/1 | 3.63 | 3.01 |
| 1/1 | 1/1 | 7.92 | 7.52 |
| 1/1 | 1/1 | 7.85 | 7.46 |
| 1/1 | 1/1 | 3.77 | 3.41 |
| 0/1 | 1/1 | 2.59 | 4.34 |
| 1/1 | 0/1 | 4.5 | 3.55 |
| 1/1 | 1/1 | 5.46 | 4.76 |
| 1/1 | 1/1 | 10.53 | 10.05 |
| 1/1 | 1/1 | 3.61 | 3.31 |
| 1/1 | 1/1 | 9.34 | 9.18 |
| 1/1 | 0/1 | 2.09 | 1.95 |
| 1/1 | 1/1 | 5.04 | 4.92 |
| 1/1 | 1/1 | 4.06 | 3.99 |
| 1/1 | 1/1 | 7.85 | 7.81 |
| 1/1 | 1/1 | 7.66 | 7.67 |
| 1/1 | 1/1 | 6.61 | 6.63 |
| 1/1 | 1/1 | 7.05 | 7.1 |
| 1/1 | 1/1 | 8.64 | 8.74 |
| 1/1 | 1/1 | 4.62 | 4.73 |
| 1/1 | 1/1 | 4.82 | 4.94 |
| 1/1 | 1/1 | 3.64 | 5.9 |
| 1/1 | 1/1 | 5.36 | 7.99 |
| 0/1 | 1/1 | 3.22 | 6.13 |
| 1/1 | 1/1 | 7.83 | 5.27 |
| 1/1 | 1/1 | 8.07 | 5.66 |
| 1/1 | 1/1 | 7.4 | 5.05 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.3 | 5.03 |
| 0/1 | 1/1 | 2.08 | 2.67 |
| 0/1 | 1/1 | 2.77 | 3.43 |
| 0/1 | 1/1 | 2 | 2.97 |
| 1/1 | 1/1 | 4.3 | 3.29 |
| 1/1 | 1/1 | 6.21 | 5.29 |
| 1/1 | 0/1 | 3.37 | 2.52 |
| 1/1 | 1/1 | 4.13 | 3.34 |
| 1/1 | 1/1 | 7 | 6.39 |
| 1/1 | 1/1 | 7.66 | 7.11 |
| 1/1 | 1/1 | 4.15 | 3.65 |
| 1/1 | 1/1 | 4.91 | 4.47 |
| 1/1 | 1/1 | 6.34 | 5.92 |
| 0/1 | 1/1 | 8.05 | 7.8 |
| 0/1 | 1/1 | 5.31 | 5.16 |
| 1/1 | 1/1 | 5.52 | 5.41 |
| 1/1 | 1/1 | 8.26 | 8.17 |
| 1/1 | 1/1 | 5.51 | 5.47 |
| 1/1 | 1/1 | 8.6 | 8.59 |
| 0/1 | 1/1 | 1.95 | 1.95 |
| 1/1 | 1/1 | 8.85 | 8.87 |
| 1/1 | 1/1 | 12.45 | 12.47 |
| 1/1 | 1/1 | 10.12 | 10.2 |
| 1/1 | 1/1 | 4.6 | 6.73 |
| 0/1 | 1/1 | 4.05 | 6.5 |
| 1/1 | 1/1 | 8.29 | 7.66 |
| 1/1 | 1/1 | 5.78 | 5.27 |
| 1/1 | 1/1 | 7.2 | 6.8 |
| 1/1 | 1/1 | 11.08 | 10.81 |
| 1/1 | 1/1 | 10 | 9.91 |
| 0/1 | 1/1 | 2.79 | 2.8 |
| 1/1 | 1/1 | 6.58 | 6.95 |
| 1/1 | 1/1 | 5.09 | 5.49 |
| 1/1 | 1/1 | 8.22 | 8.69 |
| 1/1 | 0/1 | 2.69 | 1.8 |
| 1/1 | 0/1 | 3.12 | 2.41 |
| 1/1 | 0/1 | 2.76 | 2.21 |
| 0/1 | 1/1 | 2.57 | 2.64 |
| 0/1 | 1/1 | 2.24 | 2.43 |
| 1/1 | 1/1 | 3.84 | 6.37 |
| 0/1 | 1/1 | 2.8 | 5.36 |
| 0/1 | 1/1 | 2.81 | 5.62 |
| 1/1 | 1/1 | 6.04 | 4.86 |
| 1/1 | 1/1 | 8.6 | 8.23 |
| 1/1 | 1/1 | 6.49 | 6.21 |
| 1/1 | 1/1 | 4.28 | 4.2 |
| 0/1 | 1/1 | 3.86 | 5.78 |
| 1/1 | 1/1 | 5.62 | 7.8 |
| 0/1 | 1/1 | 4.14 | 3.39 |
| 1/1 | 1/1 | 3 | 2.97 |
| 0/1 | 1/1 | 2.68 | 2.68 |
| 1/1 | 1/1 | 6.72 | 6.92 |
| 1/1 | 1/1 | 2.3 | 2.52 |
| 1/1 | 0/1 | 4.04 | 2.67 |
| 1/1 | 0/1 | 2.98 | 2.41 |
| 1/1 | 1/1 | 5.27 | 4.81 |
| 1/1 | 1/1 | 2.75 | 4.67 |
| 1/1 | 1/1 | 3.82 | 5.91 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.99 | 5.25 |
| 1/1 | 1/1 | 4.63 | 6.96 |
| 1/1 | 1/1 | 9.02 | 6.5 |
| 1/1 | 1/1 | 6.34 | 4.75 |
| 1/1 | 0/1 | 5.35 | 3.78 |
| 1/1 | 1/1 | 9.26 | 7.78 |
| 1/1 | 0/1 | 6.01 | 4.46 |
| 1/1 | 1/1 | 5.78 | 4.77 |
| 1/1 | 0/1 | 10.69 | 10.21 |
| 0/1 | 1/1 | 2.49 | 4.08 |
| 0/1 | 1/1 | 4.26 | 5.88 |
| 1/1 | 1/1 | 6.92 | 8.57 |
| 0/1 | 1/1 | 3.23 | 4.92 |
| 0/1 | 1/1 | 3.8 | 5.78 |
| 0/1 | 1/1 | 3.26 | 5.6 |
| 1/1 | 1/1 | 5.72 | 4.1 |
| 1/1 | 0/1 | 3.93 | 2.92 |
| 1/1 | 1/1 | 7.73 | 7.17 |
| 1/1 | 1/1 | 4.33 | 5.86 |
| 1/1 | 0/1 | 6.32 | 4.7 |
| 1/1 | 0/1 | 4.12 | 2.81 |
| 1/1 | 1/1 | 7.25 | 6.53 |
| 1/1 | 1/1 | 7.5 | 6.79 |
| 1/1 | 1/1 | 9.52 | 8.83 |
| 1/1 | 1/1 | 9.65 | 9.08 |
| 0/1 | 1/1 | 3.21 | 5.67 |
| 1/1 | 1/1 | 6.72 | 3.17 |
| 1/1 | 1/1 | 7 | 3.46 |
| 1/1 | 0/1 | 5.34 | 1.94 |
| 1/1 | 0/1 | 5.38 | 2.38 |
| 1/1 | 0/1 | 5.33 | 2.47 |
| 1/1 | 1/1 | 7.23 | 4.51 |
| 1/1 | 0/1 | 4.65 | 2.01 |
| 1/1 | 0/1 | 2.85 | 2.49 |
| 1/1 | 1/1 | 4.42 | 4.06 |
| 1/1 | 1/1 | 3.64 | 3.36 |
| 1/1 | 1/1 | 4.21 | 4.05 |
| 1/1 | 1/1 | 4.74 | 4.74 |
| 0/1 | 1/1 | 2.53 | 2.55 |
| 1/1 | 1/1 | 2.88 | 3.09 |
| 1/1 | 1/1 | 3.63 | 4.01 |
| 0/1 | 1/1 | 2.03 | 2.53 |
| 1/1 | 1/1 | 3.18 | 2.7 |
| 0/1 | 1/1 | 4.42 | 4.4 |
| 0/1 | 1/1 | 3.02 | 3.18 |
| 1/1 | 1/1 | 6.53 | 6.81 |
| 0/1 | 1/1 | 3.32 | 3.7 |
| 1/1 | 1/1 | 4.96 | 7.6 |
| 1/1 | 1/1 | 3.89 | 3.44 |
| 1/1 | 0/1 | 2.89 | 2.5 |
| 1/1 | 1/1 | 4.33 | 4.19 |
| 1/1 | 1/1 | 6.67 | 6.64 |
| 1/1 | 1/1 | 5.2 | 5.19 |
| 0/1 | 1/1 | 7.5 | 7.55 |
| 1/1 | 1/1 | 12.34 | 12.49 |
| 1/1 | 1/1 | 5.02 | 5.28 |
| 1/1 | 1/1 | 2.13 | 2.39 |
| 0/1 | 1/1 | 2.86 | 3.15 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 3.73 | 4.09 |
| 1/1 | 1/1 | 6.42 | 6.79 |
| 1/1 | 1/1 | 5.27 | 5.64 |
| 1/1 | 1/1 | 3.5 | 3.9 |
| 1/1 | 1/1 | 8.44 | 9.02 |
| 0/1 | 1/1 | 3.15 | 3.78 |
| 1/1 | 1/1 | 6.17 | 5.43 |
| 1/1 | 1/1 | 8.49 | 8.63 |
| 1/1 | 1/1 | 5.07 | 7.46 |
| 1/1 | 1/1 | 6.08 | 8.59 |
| 1/1 | 1/1 | 4.84 | 7.54 |
| 1/1 | 1/1 | 4.82 | 7.6 |
| 0/1 | 1/1 | 1.99 | 5.59 |
| 1/1 | 1/1 | 3.94 | 7.64 |
| 0/1 | 1/1 | 2.48 | 6.39 |
| 1/1 | 0/1 | 3.51 | 2.19 |
| 1/1 | 1/1 | 6.22 | 5.37 |
| 1/1 | 1/1 | 4.26 | 4 |
| 1/1 | 1/1 | 3.57 | 2.89 |
| 1/1 | 1/1 | 7.86 | 7.44 |
| 1/1 | 1/1 | 5.53 | 5.17 |
| 1/1 | 1/1 | 8.35 | 8 |
| 0/1 | 1/1 | 5.04 | 4.88 |
| 1/1 | 1/1 | 8.35 | 8.22 |
| 1/1 | 1/1 | 7.39 | 7.32 |
| 1/1 | 1/1 | 7.04 | 7.03 |
| 1/1 | 1/1 | 7.16 | 7.26 |
| 1/1 | 1/1 | 7.39 | 7.59 |
| 0/1 | 1/1 | 2.78 | 3.11 |
| 0/1 | 1/1 | 4.37 | 4.72 |
| 1/1 | 1/1 | 3.65 | 6.05 |
| 1/1 | 1/1 | 3.43 | 6.23 |
| 1/1 | 0/1 | 4.32 | 2.62 |
| 1/1 | 1/1 | 8.42 | 7.47 |
| 1/1 | 1/1 | 7.06 | 6.13 |
| 1/1 | 1/1 | 4.11 | 3.45 |
| 1/1 | 1/1 | 7.56 | 6.93 |
| 1/1 | 1/1 | 6.4 | 7.81 |
| 1/1 | 1/1 | 5.03 | 6.6 |
| 1/1 | 1/1 | 7.49 | 7.1 |
| 1/1 | 1/1 | 8.66 | 8.49 |
| 1/1 | 1/1 | 11.4 | 11.54 |
| 0/1 | 1/1 | 4.92 | 5.11 |
| 1/1 | 1/1 | 6.36 | 6.58 |
| 1/1 | 1/1 | 6.16 | 6.42 |
| 1/1 | 1/1 | 8.38 | 8.81 |
| 1/1 | 1/1 | 4.29 | 4.9 |
| 1/1 | 1/1 | 6.19 | 8.89 |
| 0/1 | 1/1 | 2.23 | 4.97 |
| 1/1 | 0/1 | 4.89 | 3.3 |
| 1/1 | 1/1 | 3.59 | 2.71 |
| 1/1 | 1/1 | 7.37 | 6.5 |
| 1/1 | 1/1 | 7.47 | 6.66 |
| 1/1 | 1/1 | 5.7 | 5.09 |
| 1/1 | 1/1 | 3.82 | 5.97 |
| 1/1 | 0/1 | 7.11 | 6.82 |
| 1/1 | 1/1 | 9.93 | 9.88 |
| 0/1 | 1/1 | 4.9 | 8.15 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 5.86 | 9.2 |
| 1/1 | 1/1 | 3.82 | 2.94 |
| 1/1 | 1/1 | 7.04 | 6.7 |
| 1/1 | 1/1 | 7.9 | 7.89 |
| 1/1 | 1/1 | 3.91 | 3.93 |
| 1/1 | 1/1 | 8.34 | 8.38 |
| 0/1 | 1/1 | 2.6 | 2.66 |
| 1/1 | 1/1 | 6.69 | 6.78 |
| 1/1 | 1/1 | 9.73 | 2.39 |
| 1/1 | 0/1 | 6.43 | 2.21 |
| 1/1 | 1/1 | 6.22 | 3.34 |
| 1/1 | 0/1 | 5.23 | 3.46 |
| 0/1 | 1/1 | 2.55 | 2.45 |
| 1/1 | 0/1 | 5.99 | 3.25 |
| 1/1 | 1/1 | 5.98 | 3.35 |
| 1/1 | 1/1 | 8.35 | 5.94 |
| 1/1 | 1/1 | 5.36 | 2.96 |
| 1/1 | 1/1 | 8.76 | 6.4 |
| 1/1 | 0/1 | 5.27 | 2.91 |
| 1/1 | 1/1 | 9.06 | 6.93 |
| 1/1 | 1/1 | 5.64 | 3.65 |
| 1/1 | 1/1 | 8.31 | 6.51 |
| 1/1 | 1/1 | 7.34 | 5.55 |
| 0/1 | 1/1 | 6.68 | 7.01 |
| 1/1 | 1/1 | 9.68 | 10.03 |
| 0/1 | 1/1 | 5.93 | 6.47 |
| 1/1 | 0/1 | 4.31 | 2.53 |
| 1/1 | 1/1 | 7.07 | 6.22 |
| 0/1 | 1/1 | 2.5 | 3.86 |
| 1/1 | 1/1 | 4.78 | 6.67 |
| 1/1 | 0/1 | 3.18 | 2.13 |
| 1/1 | 1/1 | 4.88 | 4.47 |
| 1/1 | 1/1 | 3.08 | 2.68 |
| 1/1 | 1/1 | 3.94 | 3.95 |
| 1/1 | 0/1 | 4.64 | 2.65 |
| 1/1 | 1/1 | 3.85 | 2.87 |
| 1/1 | 1/1 | 5.08 | 4.14 |
| 1/1 | 1/1 | 3.81 | 5.02 |
| 0/1 | 1/1 | 3.21 | 4.56 |
| 1/1 | 1/1 | 3.42 | 4.97 |
| 1/1 | 1/1 | 5.75 | 4.88 |
| 1/1 | 1/1 | 7.48 | 6.67 |
| 1/1 | 1/1 | 7.87 | 7.2 |
| 1/1 | 1/1 | 5.64 | 5.32 |
| 1/1 | 1/1 | 3.74 | 3.51 |
| 1/1 | 1/1 | 5.79 | 5.61 |
| 1/1 | 1/1 | 7.14 | 6.99 |
| 1/1 | 1/1 | 7.7 | 7.65 |
| 1/1 | 1/1 | 8.54 | 8.51 |
| 1/1 | 1/1 | 8.79 | 8.77 |
| 1/1 | 1/1 | 7.75 | 7.76 |
| 1/1 | 1/1 | 5.96 | 6 |
| 1/1 | 1/1 | 6.71 | 6.79 |
| 1/1 | 1/1 | 8.8 | 8.96 |
| 1/1 | 1/1 | 8.11 | 6.18 |
| 1/1 | 1/1 | 5.63 | 4.63 |
| 1/1 | 0/1 | 5.57 | 4.63 |
| 1/1 | 1/1 | 4.98 | 4.09 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.08 | 4.38 |
| 1/1 | 1/1 | 4.87 | 3.37 |
| 1/1 | 0/1 | 6.04 | 4.96 |
| 1/1 | 1/1 | 6.53 | 5.65 |
| 1/1 | 0/1 | 4.17 | 3.32 |
| 1/1 | 1/1 | 5.52 | 4.71 |
| 1/1 | 1/1 | 7.13 | 6.35 |
| 1/1 | 1/1 | 4.34 | 3.69 |
| 1/1 | 0/1 | 3.13 | 2.61 |
| 1/1 | 1/1 | 5.22 | 4.77 |
| 1/1 | 1/1 | 4.35 | 3.92 |
| 1/1 | 1/1 | 9.41 | 9.17 |
| 1/1 | 1/1 | 6 | 5.8 |
| 1/1 | 1/1 | 3.89 | 4.02 |
| 1/1 | 1/1 | 5.36 | 5.58 |
| 0/1 | 1/1 | 5.99 | 6.54 |
| 1/1 | 1/1 | 4.08 | 4.89 |
| 1/1 | 1/1 | 4.96 | 8.51 |
| 1/1 | 0/1 | 4.82 | 2.72 |
| 1/1 | 1/1 | 6.65 | 7.78 |
| 0/1 | 1/1 | 2.6 | 3.81 |
| 0/1 | 1/1 | 1.92 | 4.04 |
| 1/1 | 0/1 | 10.81 | 2.88 |
| 1/1 | 1/1 | 10.44 | 3.47 |
| 1/1 | 1/1 | 8.43 | 3.67 |
| 0/1 | 1/1 | 3.12 | 2.84 |
| 1/1 | 1/1 | 8.46 | 8.25 |
| 1/1 | 1/1 | 7.82 | 7.93 |
| 1/1 | 1/1 | 4.1 | 7.29 |
| 1/1 | 1/1 | 11.1 | 9.94 |
| 1/1 | 1/1 | 5.06 | 4.34 |
| 1/1 | 1/1 | 8.05 | 7.69 |
| 1/1 | 1/1 | 5.66 | 5.4 |
| 1/1 | 1/1 | 4.5 | 4.28 |
| 1/1 | 1/1 | 7.68 | 8.87 |
| 0/1 | 1/1 | 6.23 | 11.17 |
| 1/1 | 1/1 | 5.75 | 11.5 |
| 0/1 | 1/1 | 3.71 | 9.82 |
| 1/1 | 1/1 | 9.65 | 9.23 |
| 1/1 | 1/1 | 7.52 | 7.21 |
| 1/1 | 1/1 | 6.39 | 6.2 |
| 0/1 | 1/1 | 3.58 | 3.66 |
| 0/1 | 1/1 | 4.65 | 4.76 |
| 0/1 | 1/1 | 3.3 | 3.59 |
| 1/1 | 1/1 | 4.82 | 5.3 |
| 0/1 | 1/1 | 2.31 | 2.79 |
| 1/1 | 1/1 | 6.11 | 6.68 |
| 1/1 | 1/1 | 5.81 | 6.42 |
| 0/1 | 1/1 | 3.01 | 5.73 |
| 0/1 | 1/1 | 3.53 | 6.48 |
| 1/1 | 1/1 | 4.96 | 4.36 |
| 0/1 | 1/1 | 5.99 | 5.62 |
| 1/1 | 1/1 | 6.27 | 6.12 |
| 1/1 | 1/1 | 7.45 | 7.4 |
| 0/1 | 1/1 | 3.05 | 3.1 |
| 0/1 | 1/1 | 2.34 | 2.47 |
| 1/1 | 1/1 | 5.05 | 5.24 |
| 0/1 | 1/1 | 2.34 | 2.69 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 3.99 | 2.55 |
| 1/1 | 1/1 | 7.17 | 5.77 |
| 0/1 | 1/1 | 4.36 | 3.58 |
| 1/1 | 1/1 | 11.38 | 10.7 |
| 1/1 | 1/1 | 3.37 | 2.71 |
| 1/1 | 1/1 | 4.52 | 3.9 |
| 1/1 | 1/1 | 11.44 | 10.89 |
| 1/1 | 1/1 | 6.85 | 6.3 |
| 1/1 | 1/1 | 9.66 | 9.2 |
| 1/1 | 1/1 | 5.38 | 4.98 |
| 1/1 | 1/1 | 4.09 | 5.97 |
| 0/1 | 1/1 | 2.69 | 4.65 |
| 1/1 | 1/1 | 3.55 | 5.64 |
| 1/1 | 1/1 | 7.1 | 6.51 |
| 1/1 | 1/1 | 4.42 | 3.94 |
| 1/1 | 1/1 | 8.96 | 8.62 |
| 1/1 | 1/1 | 11.53 | 11.34 |
| 1/1 | 1/1 | 6.02 | 5.91 |
| 1/1 | 1/1 | 5.5 | 5.45 |
| 1/1 | 1/1 | 6.94 | 6.98 |
| 1/1 | 1/1 | 6.38 | 6.43 |
| 1/1 | 1/1 | 8 | 8.08 |
| 1/1 | 1/1 | 7.8 | 8.06 |
| 1/1 | 1/1 | 8.54 | 8.81 |
| 0/1 | 1/1 | 2.49 | 2.77 |
| 0/1 | 1/1 | 5.16 | 5.57 |
| 1/1 | 1/1 | 7.09 | 7.55 |
| 1/1 | 0/1 | 6.19 | 5.27 |
| 1/1 | 0/1 | 4.1 | 3.26 |
| 1/1 | 1/1 | 10.2 | 9.57 |
| 1/1 | 1/1 | 5.84 | 5.31 |
| 0/1 | 1/1 | 3.18 | 2.81 |
| 1/1 | 1/1 | 8.39 | 8.09 |
| 0/1 | 1/1 | 4.82 | 4.54 |
| 1/1 | 1/1 | 7.14 | 6.9 |
| 0/1 | 1/1 | 3.8 | 3.61 |
| 1/1 | 1/1 | 7.59 | 7.43 |
| 0/1 | 1/1 | 4.36 | 4.26 |
| 1/1 | 1/1 | 8.42 | 8.34 |
| 1/1 | 1/1 | 6.3 | 6.23 |
| 1/1 | 1/1 | 7.58 | 7.56 |
| 1/1 | 1/1 | 7.76 | 7.8 |
| 1/1 | 1/1 | 5.74 | 5.8 |
| 1/1 | 1/1 | 6.43 | 6.53 |
| 1/1 | 1/1 | 6.43 | 6.53 |
| 0/1 | 1/1 | 4.23 | 4.35 |
| 0/1 | 1/1 | 3.82 | 3.94 |
| 0/1 | 1/1 | 2.51 | 5.04 |
| 1/1 | 1/1 | 3.47 | 6.87 |
| 1/1 | 1/1 | 7.1 | 6.51 |
| 1/1 | 1/1 | 4.42 | 3.94 |
| 1/1 | 1/1 | 8.96 | 8.62 |
| 1/1 | 1/1 | 11.53 | 11.34 |
| 0/1 | 1/1 | 5.5 | 5.37 |
| 1/1 | 1/1 | 6.02 | 5.91 |
| 1/1 | 1/1 | 6.94 | 6.98 |
| 1/1 | 1/1 | 6.38 | 6.43 |
| 1/1 | 1/1 | 8.27 | 8.33 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.8 | 8.06 |
| 1/1 | 1/1 | 8.54 | 8.81 |
| 0/1 | 1/1 | 2.49 | 2.77 |
| 0/1 | 1/1 | 5.16 | 5.57 |
| 1/1 | 1/1 | 7.09 | 7.55 |
| 1/1 | 1/1 | 5.2 | 4.49 |
| 1/1 | 1/1 | 7.6 | 7.62 |
| 0/1 | 1/1 | 8.02 | 8.22 |
| 1/1 | 1/1 | 4.82 | 5.15 |
| 1/1 | 1/1 | 7.1 | 6.51 |
| 1/1 | 1/1 | 4.42 | 3.94 |
| 1/1 | 1/1 | 8.96 | 8.62 |
| 1/1 | 1/1 | 11.53 | 11.34 |
| 0/1 | 1/1 | 5.5 | 5.37 |
| 1/1 | 1/1 | 6.02 | 5.91 |
| 1/1 | 1/1 | 6.94 | 6.98 |
| 1/1 | 1/1 | 6.38 | 6.43 |
| 1/1 | 1/1 | 8.27 | 8.33 |
| 1/1 | 1/1 | 7.8 | 8.06 |
| 1/1 | 1/1 | 8.54 | 8.81 |
| 0/1 | 1/1 | 2.49 | 2.77 |
| 0/1 | 1/1 | 5.16 | 5.57 |
| 1/1 | 1/1 | 7.09 | 7.55 |
| 1/1 | 0/1 | 4.79 | 3.39 |
| 1/1 | 1/1 | 7.58 | 6.49 |
| 1/1 | 1/1 | 5.09 | 4.36 |
| 0/1 | 1/1 | 3.92 | 3.36 |
| 1/1 | 1/1 | 6.45 | 6.02 |
| 1/1 | 1/1 | 6.08 | 8.14 |
| 1/1 | 0/1 | 4.29 | 2.65 |
| 1/1 | 0/1 | 3.61 | 2.25 |
| 1/1 | 0/1 | 2.44 | 1.69 |
| 1/1 | 1/1 | 2.8 | 2.12 |
| 1/1 | 1/1 | 4.91 | 6.67 |
| 1/1 | 1/1 | 5.88 | 4.21 |
| 1/1 | 1/1 | 4.24 | 3.49 |
| 1/1 | 1/1 | 5.27 | 4.61 |
| 1/1 | 1/1 | 4.27 | 5.79 |
| 1/1 | 0/1 | 7.88 | 6.67 |
| 1/1 | 1/1 | 6.95 | 6.44 |
| 0/1 | 1/1 | 3.26 | 3.04 |
| 1/1 | 1/1 | 5.2 | 5.06 |
| 0/1 | 1/1 | 3.93 | 5.83 |
| 0/1 | 1/1 | 2.5 | 4.42 |
| 0/1 | 1/1 | 2.2 | 4.84 |
| 1/1 | 1/1 | 3.82 | 3.13 |
| 1/1 | 1/1 | 6.31 | 5.93 |
| 0/1 | 1/1 | 2.94 | 2.61 |
| 1/1 | 1/1 | 5.87 | 5.97 |
| 0/1 | 1/1 | 2.35 | 2.47 |
| 1/1 | 1/1 | 3.6 | 3.73 |
| 1/1 | 1/1 | 5.04 | 5.35 |
| 1/1 | 1/1 | 4.24 | 4.57 |
| 1/1 | 1/1 | 6.62 | 3.8 |
| 1/1 | 0/1 | 4.94 | 2.88 |
| 1/1 | 1/1 | 4.5 | 5.22 |
| 1/1 | 1/1 | 5.73 | 5.76 |
| 0/1 | 1/1 | 2.55 | 2.85 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.52 | 9.82 |
| 0/1 | 1/1 | 2.57 | 3 |
| 1/1 | 1/1 | 4.5 | 5.23 |
| 1/1 | 1/1 | 5.81 | 6.61 |
| 1/1 | 1/1 | 7.38 | 7.4 |
| 1/1 | 1/1 | 9.84 | 9.88 |
| 1/1 | 1/1 | 7.6 | 7.67 |
| 1/1 | 1/1 | 5.19 | 5.42 |
| 1/1 | 1/1 | 6.63 | 6.89 |
| 0/1 | 1/1 | 5.47 | 6.12 |
| 0/1 | 1/1 | 4.1 | 4.79 |
| 0/1 | 1/1 | 5.62 | 6.36 |
| 1/1 | 1/1 | 6.67 | 7.59 |
| 1/1 | 1/1 | 5.55 | 6.57 |
| 0/1 | 1/1 | 4.06 | 7.29 |
| 0/1 | 1/1 | 4.08 | 7.45 |
| 1/1 | 1/1 | 4.67 | 8.23 |
| 0/1 | 1/1 | 3.12 | 7.12 |
| 1/1 | 1/1 | 9.06 | 8.54 |
| 1/1 | 1/1 | 3.12 | 2.68 |
| 1/1 | 1/1 | 9.66 | 9.55 |
| 1/1 | 1/1 | 6.62 | 6.56 |
| 0/1 | 1/1 | 2.63 | 2.66 |
| 1/1 | 1/1 | 9.7 | 9.8 |
| 0/1 | 1/1 | 5.83 | 5.93 |
| 1/1 | 1/1 | 8.05 | 8.21 |
| 0/1 | 1/1 | 2.79 | 3.13 |
| 0/1 | 1/1 | 5.26 | 5.77 |
| 0/1 | 1/1 | 4.24 | 4.77 |
| 1/1 | 1/1 | 6.05 | 8.69 |
| 1/1 | 1/1 | 6.64 | 9.4 |
| 1/1 | 1/1 | 5.2 | 8.02 |
| 0/1 | 1/1 | 3.99 | 7.2 |
| 0/1 | 1/1 | 3.13 | 6.98 |
| 0/1 | 1/1 | 4.23 | 8.24 |
| 0/1 | 1/1 | 2.24 | 6.76 |
| 0/1 | 1/1 | 4.61 | 9.25 |
| 1/1 | 1/1 | 7.82 | 7.43 |
| 1/1 | 1/1 | 6.23 | 5.9 |
| 1/1 | 1/1 | 5.76 | 5.5 |
| 1/1 | 1/1 | 6.26 | 6.09 |
| 1/1 | 1/1 | 6.05 | 5.89 |
| 1/1 | 1/1 | 6.13 | 6 |
| 0/1 | 1/1 | 2.11 | 2.05 |
| 1/1 | 1/1 | 4.75 | 4.84 |
| 1/1 | 1/1 | 8.52 | 8.76 |
| 0/1 | 1/1 | 2.33 | 2.59 |
| 1/1 | 1/1 | 7.11 | 7.39 |
| 1/1 | 1/1 | 3.45 | 3.75 |
| 0/1 | 1/1 | 3.43 | 3.82 |
| 1/1 | 1/1 | 6.69 | 7.12 |
| 0/1 | 1/1 | 2.94 | 3.46 |
| 1/1 | 1/1 | 5.67 | 6.21 |
| 1/1 | 1/1 | 8.06 | 8.61 |
| 1/1 | 1/1 | 7.19 | 6.59 |
| 1/1 | 1/1 | 10.88 | 10.51 |
| 1/1 | 1/1 | 2.94 | 2.58 |
| 1/1 | 0/1 | 2.73 | 2.54 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.51 | 9.33 |
| 0/1 | 1/1 | 4.65 | 4.52 |
| 1/1 | 1/1 | 10.61 | 10.68 |
| 0/1 | 1/1 | 3.12 | 3.21 |
| 1/1 | 1/1 | 5.62 | 5.75 |
| 1/1 | 1/1 | 9.21 | 9.34 |
| 0/1 | 1/1 | 2.84 | 3 |
| 0/1 | 1/1 | 4.22 | 4.49 |
| 0/1 | 1/1 | 3.63 | 3.94 |
| 0/1 | 1/1 | 2.82 | 3.13 |
| 0/1 | 1/1 | 2.02 | 2.37 |
| 0/1 | 1/1 | 2.65 | 3.02 |
| 1/1 | 1/1 | 4.48 | 6.98 |
| 1/1 | 1/1 | 3.93 | 6.49 |
| 0/1 | 1/1 | 2.44 | 5.83 |
| 1/1 | 0/1 | 5.03 | 3.18 |
| 1/1 | 0/1 | 6.41 | 4.66 |
| 1/1 | 1/1 | 7.93 | 6.62 |
| 1/1 | 0/1 | 4.76 | 3.86 |
| 0/1 | 1/1 | 5.59 | 8.44 |
| 1/1 | 0/1 | 5.2 | 2.62 |
| 1/1 | 0/1 | 4.19 | 2.55 |
| 1/1 | 1/1 | 6.15 | 5.24 |
| 1/1 | 1/1 | 9.08 | 8.67 |
| 1/1 | 1/1 | 8.32 | 8.12 |
| 1/1 | 1/1 | 3.8 | 6.02 |
| 1/1 | 1/1 | 5.29 | 7.81 |
| 1/1 | 0/1 | 6.1 | 2.75 |
| 1/1 | 0/1 | 6.31 | 3.4 |
| 1/1 | 0/1 | 7.66 | 4.87 |
| 1/1 | 1/1 | 9.3 | 9.06 |
| 1/1 | 1/1 | 4.02 | 3.97 |
| 1/1 | 0/1 | 5.15 | 3.5 |
| 1/1 | 1/1 | 4.53 | 3.13 |
| 1/1 | 1/1 | 6.83 | 6.07 |
| 1/1 | 0/1 | 4.86 | 4.13 |
| 1/1 | 1/1 | 7.44 | 6.75 |
| 1/1 | 1/1 | 5.72 | 5.08 |
| 1/1 | 1/1 | 5.95 | 4.41 |
| 1/1 | 1/1 | 6.64 | 5.74 |
| 1/1 | 1/1 | 7.96 | 7.35 |
| 1/1 | 1/1 | 5.39 | 4.87 |
| 1/1 | 1/1 | 7.45 | 5.16 |
| 1/1 | 1/1 | 9.42 | 7.31 |
| 1/1 | 1/1 | 6.04 | 3.97 |
| 1/1 | 1/1 | 9.93 | 7.97 |
| 1/1 | 1/1 | 9.53 | 7.58 |
| 1/1 | 1/1 | 8.24 | 6.53 |
| 1/1 | 1/1 | 7.09 | 5.4 |
| 1/1 | 1/1 | 9.05 | 7.39 |
| 1/1 | 1/1 | 8.17 | 6.6 |
| 1/1 | 1/1 | 6.23 | 4.74 |
| 1/1 | 0/1 | 8.04 | 5.92 |
| 0/1 | 1/1 | 2.44 | 4.08 |
| 1/1 | 1/1 | 9.01 | 7.84 |
| 1/1 | 1/1 | 7.47 | 7.07 |
| 1/1 | 1/1 | 9.28 | 9.14 |
| 0/1 | 1/1 | 7.13 | 6.99 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.9 | 6.76 |
| 1/1 | 1/1 | 4.81 | 6.72 |
| 1/1 | 1/1 | 6.72 | 8.79 |
| 1/1 | 1/1 | 5.66 | 7.8 |
| 1/1 | 1/1 | 6.94 | 9.09 |
| 1/1 | 1/1 | 6.38 | 8.62 |
| 1/1 | 1/1 | 5.63 | 8.12 |
| 1/1 | 0/1 | 4.01 | 2.32 |
| 1/1 | 1/1 | 5.26 | 4.47 |
| 1/1 | 1/1 | 4.25 | 5.79 |
| 0/1 | 1/1 | 3.69 | 5.25 |
| 0/1 | 1/1 | 2.86 | 5 |
| 1/1 | 0/1 | 7.07 | 2.17 |
| 1/1 | 1/1 | 10.95 | 6.43 |
| 1/1 | 1/1 | 9.26 | 4.86 |
| 1/1 | 1/1 | 7.85 | 6.01 |
| 1/1 | 1/1 | 9.82 | 8.08 |
| 1/1 | 1/1 | 9.03 | 7.35 |
| 1/1 | 1/1 | 9.82 | 8.27 |
| 1/1 | 1/1 | 8.4 | 7.34 |
| 1/1 | 1/1 | 8.8 | 8.74 |
| 1/1 | 0/1 | 3.58 | 2.19 |
| 1/1 | 0/1 | 2.82 | 2.15 |
| 1/1 | 1/1 | 6.53 | 5.92 |
| 1/1 | 1/1 | 5.91 | 5.42 |
| 1/1 | 1/1 | 6.31 | 5.88 |
| 1/1 | 1/1 | 9.05 | 8.69 |
| 1/1 | 1/1 | 4.92 | 6.65 |
| 1/1 | 1/1 | 3.94 | 6.05 |
| 1/1 | 1/1 | 6.05 | 4.13 |
| 1/1 | 1/1 | 6.64 | 4.87 |
| 1/1 | 1/1 | 5.35 | 4.12 |
| 1/1 | 1/1 | 4.18 | 3.2 |
| 0/1 | 1/1 | 3.24 | 4.73 |
| 1/1 | 1/1 | 4.03 | 2.52 |
| 1/1 | 1/1 | 3.8 | 2.76 |
| 1/1 | 1/1 | 4.73 | 3.3 |
| 1/1 | 1/1 | 6.77 | 5.84 |
| 1/1 | 1/1 | 3.9 | 3.1 |
| 1/1 | 1/1 | 4.96 | 4.46 |
| 1/1 | 0/1 | 2.69 | 2.27 |
| 1/1 | 1/1 | 4.97 | 4.57 |
| 0/1 | 1/1 | 4.11 | 3.71 |
| 1/1 | 0/1 | 4.97 | 3.23 |
| 1/1 | 1/1 | 4.43 | 5.95 |
| 1/1 | 1/1 | 3.62 | 5.59 |
| 1/1 | 0/1 | 5.02 | 3.8 |
| 1/1 | 1/1 | 6.22 | 5.17 |
| 1/1 | 1/1 | 3.96 | 3.51 |
| 0/1 | 1/1 | 7.18 | 6.74 |
| 1/1 | 1/1 | 13.03 | 12.64 |
| 1/1 | 1/1 | 3.91 | 3.58 |
| 1/1 | 1/1 | 5.29 | 4.96 |
| 1/1 | 1/1 | 8.37 | 8.09 |
| 1/1 | 1/1 | 4.86 | 4.64 |
| 1/1 | 1/1 | 13.16 | 12.95 |
| 1/1 | 1/1 | 5.49 | 5.28 |
| 1/1 | 1/1 | 11.43 | 11.22 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.28 | 6.34 |
| 1/1 | 1/1 | 8.04 | 6.85 |
| 1/1 | 1/1 | 9.21 | 8.27 |
| 1/1 | 1/1 | 4.12 | 3.37 |
| 1/1 | 1/1 | 4.43 | 3.98 |
| 1/1 | 1/1 | 8.24 | 7.91 |
| 0/1 | 1/1 | 5.47 | 5.25 |
| 1/1 | 0/1 | 6.38 | 2.52 |
| 1/1 | 1/1 | 8.08 | 7.48 |
| 1/1 | 1/1 | 8.73 | 8.34 |
| 1/1 | 1/1 | 5.6 | 4.29 |
| 1/1 | 0/1 | 3.53 | 2.32 |
| 1/1 | 1/1 | 3.23 | 2.7 |
| 1/1 | 1/1 | 4.97 | 4.66 |
| 1/1 | 1/1 | 7.08 | 3.34 |
| 1/1 | 1/1 | 3.56 | 3.08 |
| 1/1 | 0/1 | 2.55 | 2.25 |
| 1/1 | 1/1 | 6.03 | 6.08 |
| 1/1 | 0/1 | 4.8 | 2.7 |
| 1/1 | 0/1 | 7.51 | 6.01 |
| 1/1 | 1/1 | 5.08 | 3.77 |
| 1/1 | 1/1 | 6.64 | 5.47 |
| 1/1 | 1/1 | 5.28 | 6.46 |
| 0/1 | 1/1 | 3.48 | 4.67 |
| 1/1 | 1/1 | 3 | 4.18 |
| 1/1 | 1/1 | 4.36 | 5.76 |
| 1/1 | 0/1 | 8.03 | 5.75 |
| 0/1 | 1/1 | 4.59 | 5.49 |
| 0/1 | 1/1 | 4.24 | 5.16 |
| 1/1 | 1/1 | 4.34 | 5.29 |
| 1/1 | 1/1 | 5.61 | 5.24 |
| 1/1 | 1/1 | 6.71 | 6.39 |
| 0/1 | 1/1 | 3.48 | 3.28 |
| 1/1 | 1/1 | 8.62 | 8.64 |
| 0/1 | 1/1 | 4.79 | 4.82 |
| 1/1 | 1/1 | 7.54 | 7.67 |
| 1/1 | 1/1 | 10.58 | 10.79 |
| 1/1 | 1/1 | 9.59 | 9.84 |
| 0/1 | 1/1 | 4.86 | 5.19 |
| 0/1 | 1/1 | 6.42 | 6.85 |
| 1/1 | 1/1 | 7.65 | 8.14 |
| 0/1 | 1/1 | 3.15 | 2.7 |
| 0/1 | 1/1 | 3.23 | 3.09 |
| 0/1 | 1/1 | 4.13 | 4.03 |
| 1/1 | 1/1 | 8.42 | 8.49 |
| 0/1 | 1/1 | 3.05 | 3.22 |
| 1/1 | 1/1 | 6.6 | 7.05 |
| 0/1 | 1/1 | 3.42 | 6.24 |
| 0/1 | 1/1 | 3.39 | 6.71 |
| 1/1 | 1/1 | 4.75 | 4.07 |
| 1/1 | 1/1 | 7.07 | 6.65 |
| 1/1 | 0/1 | 6.54 | 6.26 |
| 0/1 | 1/1 | 5.31 | 5.04 |
| 1/1 | 1/1 | 8.48 | 8.49 |
| 1/1 | 1/1 | 11.47 | 11.56 |
| 0/1 | 1/1 | 6.25 | 6.49 |
| 1/1 | 0/1 | 6.63 | 4.01 |
| 1/1 | 1/1 | 6.07 | 4.17 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 8.42 | 6.61 |
| 1/1 | 1/1 | 6.5 | 4.74 |
| 1/1 | 1/1 | 6.96 | 5.2 |
| 1/1 | 1/1 | 7.45 | 5.76 |
| 1/1 | 1/1 | 6.85 | 7.34 |
| 1/1 | 1/1 | 9.65 | 7.8 |
| 1/1 | 1/1 | 6.77 | 5.73 |
| 0/1 | 1/1 | 5.1 | 6.49 |
| 1/1 | 1/1 | 5.55 | 6.95 |
| 1/1 | 1/1 | 5.21 | 3.42 |
| 1/1 | 0/1 | 3.92 | 2.47 |
| 1/1 | 1/1 | 8.12 | 6.78 |
| 1/1 | 0/1 | 2.59 | 1.72 |
| 1/1 | 1/1 | 8.88 | 8.12 |
| 1/1 | 1/1 | 4.04 | 5.42 |
| 1/1 | 0/1 | 3.58 | 2.26 |
| 1/1 | 1/1 | 5.18 | 4.64 |
| 1/1 | 0/1 | 4.03 | 2.33 |
| 1/1 | 1/1 | 4.84 | 3.38 |
| 1/1 | 1/1 | 8.97 | 7.72 |
| 1/1 | 0/1 | 4.06 | 3.07 |
| 1/1 | 1/1 | 5.82 | 4.97 |
| 1/1 | 1/1 | 6.5 | 7.97 |
| 1/1 | 1/1 | 3.52 | 5.02 |
| 1/1 | 1/1 | 7.9 | 7.3 |
| 1/1 | 1/1 | 5.7 | 5.23 |
| 1/1 | 1/1 | 5.7 | 5.3 |
| 1/1 | 1/1 | 9.45 | 9.3 |
| 1/1 | 1/1 | 9.67 | 9.72 |
| 1/1 | 1/1 | 7.37 | 7.49 |
| 1/1 | 1/1 | 8.52 | 8.71 |
| 1/1 | 1/1 | 6.35 | 6.7 |
| 1/1 | 1/1 | 7.76 | 8.15 |
| 1/1 | 1/1 | 7.67 | 10.22 |
| 1/1 | 0/1 | 5.4 | 2.51 |
| 1/1 | 0/1 | 7.41 | 4.77 |
| 1/1 | 1/1 | 7.22 | 4.95 |
| 1/1 | 0/1 | 7.55 | 5.58 |
| 1/1 | 1/1 | 6.72 | 4.81 |
| 1/1 | 1/1 | 6.09 | 6.62 |
| 1/1 | 0/1 | 8.13 | 6.25 |
| 1/1 | 1/1 | 7.45 | 8.71 |
| 1/1 | 1/1 | 6.65 | 7.9 |
| 1/1 | 1/1 | 6.8 | 8.09 |
| 1/1 | 1/1 | 6.6 | 7.97 |
| 0/1 | 1/1 | 4.3 | 5.81 |
| 1/1 | 1/1 | 5.82 | 7.34 |
| 1/1 | 1/1 | 6.92 | 8.52 |
| 1/1 | 1/1 | 4.53 | 6.28 |
| 0/1 | 1/1 | 3.82 | 5.87 |
| 1/1 | 1/1 | 4.25 | 3.78 |
| 1/1 | 0/1 | 3.25 | 2.8 |
| 1/1 | 1/1 | 9.18 | 8.81 |
| 1/1 | 1/1 | 6.22 | 6.1 |
| 1/1 | 1/1 | 8.35 | 8.26 |
| 1/1 | 1/1 | 7.75 | 7.93 |
| 1/1 | 1/1 | 7.18 | 7.37 |
| 1/1 | 1/1 | 6.85 | 9.72 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 2.6 | 5.77 |
| 0/1 | 1/1 | 3.1 | 6.45 |
| 1/1 | 1/1 | 5.51 | 8.87 |
| 1/1 | 1/1 | 5.97 | 9.67 |
| 0/1 | 1/1 | 3.15 | 8.62 |
| 1/1 | 1/1 | 4.99 | 2.96 |
| 1/1 | 0/1 | 5.53 | 3.69 |
| 1/1 | 0/1 | 3.4 | 2.01 |
| 1/1 | 0/1 | 3.2 | 1.91 |
| 1/1 | 1/1 | 6.9 | 5.66 |
| 1/1 | 1/1 | 5.41 | 4.2 |
| 1/1 | 0/1 | 5.17 | 4.07 |
| 1/1 | 1/1 | 9.66 | 8.12 |
| 1/1 | 0/1 | 7.19 | 6.17 |
| 1/1 | 1/1 | 5.28 | 4.28 |
| 1/1 | 1/1 | 4.88 | 4.19 |
| 1/1 | 1/1 | 3.7 | 5.18 |
| 1/1 | 0/1 | 2.68 | 1.73 |
| 1/1 | 1/1 | 7.63 | 7.33 |
| 1/1 | 1/1 | 5.48 | 5.23 |
| 1/1 | 1/1 | 5.61 | 5.39 |
| 1/1 | 1/1 | 3.09 | 2.9 |
| 1/1 | 1/1 | 5.15 | 5.07 |
| 0/1 | 1/1 | 2.12 | 4.45 |
| 1/1 | 1/1 | 3.68 | 6.02 |
| 1/1 | 1/1 | 3.77 | 6.22 |
| 1/1 | 0/1 | 7.24 | 2.42 |
| 1/1 | 1/1 | 7.67 | 6.55 |
| 1/1 | 1/1 | 7.39 | 6.9 |
| 0/1 | 1/1 | 6.39 | 6.15 |
| 0/1 | 1/1 | 7.92 | 7.68 |
| 1/1 | 1/1 | 8.91 | 8.78 |
| 0/1 | 1/1 | 4.85 | 4.78 |
| 1/1 | 1/1 | 7.07 | 7.04 |
| 1/1 | 1/1 | 6.29 | 6.25 |
| 0/1 | 1/1 | 2.94 | 2.94 |
| 1/1 | 1/1 | 6.61 | 6.66 |
| 1/1 | 1/1 | 6.04 | 6.22 |
| 1/1 | 1/1 | 8.43 | 8.65 |
| 0/1 | 1/1 | 5.73 | 5.99 |
| 0/1 | 1/1 | 6.18 | 6.56 |
| 0/1 | 1/1 | 2.39 | 2.91 |
| 1/1 | 1/1 | 4.27 | 6.81 |
| 1/1 | 1/1 | 6.66 | 6.09 |
| 1/1 | 1/1 | 7.09 | 6.87 |
| 1/1 | 1/1 | 5.74 | 5.71 |
| 0/1 | 1/1 | 5.18 | 5.16 |
| 1/1 | 1/1 | 5.54 | 5.88 |
| 0/1 | 1/1 | 4.83 | 7.38 |
| 0/1 | 1/1 | 2.61 | 5.19 |
| 0/1 | 1/1 | 3.03 | 6.5 |
| 1/1 | 0/1 | 3.95 | 1.71 |
| 1/1 | 1/1 | 5.59 | 4.25 |
| 1/1 | 0/1 | 4.92 | 3.63 |
| 0/1 | 1/1 | 3.33 | 4.13 |
| 1/1 | 1/1 | 5.72 | 3.89 |
| 1/1 | 1/1 | 3.8 | 2.89 |
| 1/1 | 0/1 | 4.03 | 2.31 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 3.45 | 2.26 |
| 1/1 | 1/1 | 2.58 | 5.29 |
| 1/1 | 0/1 | 5.43 | 3.2 |
| 1/1 | 1/1 | 5.95 | 8.39 |
| 1/1 | 1/1 | 8.52 | 11.05 |
| 1/1 | 0/1 | 4.12 | 2.48 |
| 1/1 | 0/1 | 5.84 | 4.8 |
| 1/1 | 1/1 | 4.18 | 3.31 |
| 1/1 | 0/1 | 3.16 | 2.49 |
| 1/1 | 0/1 | 4.1 | 3.15 |
| 1/1 | 1/1 | 6.23 | 6.01 |
| 1/1 | 1/1 | 5.32 | 5.14 |
| 1/1 | 1/1 | 2.69 | 2.53 |
| 0/1 | 1/1 | 2.3 | 2.19 |
| 1/1 | 1/1 | 4.88 | 4.84 |
| 1/1 | 1/1 | 3.51 | 3.53 |
| 1/1 | 0/1 | 5.01 | 4.22 |
| 1/1 | 1/1 | 8.93 | 8.46 |
| 1/1 | 0/1 | 2.91 | 2.48 |
| 1/1 | 1/1 | 8.38 | 8.15 |
| 1/1 | 1/1 | 2.73 | 2.8 |
| 1/1 | 1/1 | 7.49 | 7.47 |
| 1/1 | 1/1 | 3.02 | 3.24 |
| 1/1 | 1/1 | 8.99 | 9.43 |
| 0/1 | 1/1 | 2.2 | 2.85 |
| 0/1 | 1/1 | 3.08 | 3.83 |
| 1/1 | 1/1 | 4.72 | 5.55 |
| 1/1 | 1/1 | 3.62 | 4.47 |
| 1/1 | 1/1 | 6.53 | 7.42 |
| 0/1 | 1/1 | 3.69 | 6.67 |
| 1/1 | 1/1 | 3.21 | 6.27 |
| 1/1 | 1/1 | 3.16 | 6.39 |
| 0/1 | 1/1 | 3.43 | 6.74 |
| 1/1 | 1/1 | 7.92 | 7.42 |
| 1/1 | 1/1 | 4.88 | 4.43 |
| 1/1 | 1/1 | 5.76 | 5.36 |
| 1/1 | 1/1 | 12.58 | 12.23 |
| 1/1 | 1/1 | 6.08 | 6.2 |
| 1/1 | 1/1 | 4.13 | 4.3 |
| 1/1 | 1/1 | 3.73 | 4 |
| 1/1 | 1/1 | 5.49 | 4.98 |
| 1/1 | 1/1 | 7.26 | 6.78 |
| 1/1 | 1/1 | 6.46 | 6.16 |
| 0/1 | 1/1 | 6.81 | 6.6 |
| 0/1 | 1/1 | 6.55 | 6.35 |
| 1/1 | 1/1 | 7.08 | 7.23 |
| 1/1 | 1/1 | 7.65 | 7.87 |
| 0/1 | 1/1 | 2.07 | 2.49 |
| 0/1 | 1/1 | 3.36 | 6.91 |
| 1/1 | 0/1 | 5.47 | 3.71 |
| 1/1 | 1/1 | 5.2 | 4.12 |
| 0/1 | 1/1 | 3.65 | 5.73 |
| 1/1 | 1/1 | 7.39 | 6.36 |
| 1/1 | 1/1 | 7.61 | 6.76 |
| 1/1 | 1/1 | 7.8 | 7.22 |
| 1/1 | 1/1 | 6.41 | 5.87 |
| 1/1 | 1/1 | 6.23 | 5.74 |
| 0/1 | 1/1 | 6.45 | 6.12 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.05 | 5.75 |
| 1/1 | 1/1 | 6.55 | 6.26 |
| 0/1 | 1/1 | 4.32 | 4.05 |
| 1/1 | 1/1 | 5.45 | 5.29 |
| 1/1 | 1/1 | 3.53 | 3.45 |
| 1/1 | 1/1 | 3.55 | 3.48 |
| 1/1 | 1/1 | 4.19 | 4.14 |
| 1/1 | 1/1 | 6.05 | 6.02 |
| 1/1 | 1/1 | 4.34 | 6.47 |
| 1/1 | 1/1 | 4.23 | 6.38 |
| 1/1 | 1/1 | 3.06 | 5.36 |
| 0/1 | 1/1 | 2.62 | 5.34 |
| 1/1 | 0/1 | 7.6 | 5.65 |
| 1/1 | 1/1 | 5.51 | 6.73 |
| 1/1 | 1/1 | 4.17 | 5.66 |
| 0/1 | 1/1 | 3.41 | 5.51 |
| 1/1 | 0/1 | 5.78 | 2.45 |
| 1/1 | 1/1 | 8.8 | 5.58 |
| 0/1 | 1/1 | 6.89 | 6.68 |
| 1/1 | 1/1 | 10.12 | 9.93 |
| 1/1 | 0/1 | 6.01 | 3.37 |
| 1/1 | 1/1 | 5.84 | 3.58 |
| 1/1 | 1/1 | 4.14 | 4.53 |
| 1/1 | 1/1 | 3.73 | 4.64 |
| 1/1 | 0/1 | 6.05 | 3.19 |
| 1/1 | 1/1 | 4.23 | 4.37 |
| 1/1 | 1/1 | 9.33 | 9.49 |
| 0/1 | 1/1 | 4.19 | 4.41 |
| 1/1 | 1/1 | 3.06 | 3.35 |
| 0/1 | 1/1 | 3.39 | 3.72 |
| 1/1 | 1/1 | 3.24 | 3.89 |
| 0/1 | 1/1 | 3.3 | 4.32 |
| 1/1 | 1/1 | 5.87 | 6.51 |
| 0/1 | 1/1 | 3.91 | 4.94 |
| 0/1 | 1/1 | 2.73 | 3.92 |
| 0/1 | 1/1 | 2.87 | 4.29 |
| 0/1 | 1/1 | 2.48 | 6.14 |
| 1/1 | 1/1 | 7.56 | 7.06 |
| 1/1 | 1/1 | 7.48 | 7.61 |
| 1/1 | 1/1 | 6.29 | 6.45 |
| 0/1 | 1/1 | 4.4 | 4.61 |
| 1/1 | 1/1 | 4.78 | 5.04 |
| 1/1 | 1/1 | 8.34 | 8.62 |
| 1/1 | 1/1 | 4.84 | 5.16 |
| 0/1 | 1/1 | 5.66 | 6.11 |
| 1/1 | 1/1 | 5.14 | 2.98 |
| 1/1 | 1/1 | 5.31 | 4 |
| 1/1 | 1/1 | 6.61 | 5.32 |
| 1/1 | 1/1 | 9.38 | 7.51 |
| 1/1 | 0/1 | 3.74 | 2.55 |
| 0/1 | 1/1 | 3.34 | 4.47 |
| 1/1 | 1/1 | 7.4 | 8.54 |
| 1/1 | 1/1 | 2.35 | 3.51 |
| 1/1 | 1/1 | 3.76 | 5.22 |
| 0/1 | 1/1 | 1.89 | 3.35 |
| 0/1 | 1/1 | 2.43 | 3.93 |
| 0/1 | 1/1 | 3.77 | 5.52 |
| 1/1 | 0/1 | 5.87 | 2.63 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.51 | 5.21 |
| 1/1 | 1/1 | 7.36 | 7.14 |
| 1/1 | 0/1 | 7.5 | 5.05 |
| 1/1 | 1/1 | 8.56 | 6.55 |
| 1/1 | 1/1 | 6.68 | 5.06 |
| 1/1 | 1/1 | 6.15 | 6.77 |
| 1/1 | 0/1 | 5.64 | 5.32 |
| 0/1 | 1/1 | 6.69 | 6.48 |
| 1/1 | 1/1 | 4.88 | 4.86 |
| 1/1 | 1/1 | 9.46 | 9.49 |
| 1/1 | 1/1 | 11.36 | 11.42 |
| 1/1 | 1/1 | 10.07 | 10.16 |
| 1/1 | 1/1 | 5.73 | 5.88 |
| 0/1 | 1/1 | 4.32 | 4.82 |
| 0/1 | 1/1 | 4.89 | 7.61 |
| 1/1 | 0/1 | 3.75 | 2.67 |
| 1/1 | 1/1 | 3.94 | 3.58 |
| 1/1 | 1/1 | 4.4 | 6.63 |
| 0/1 | 1/1 | 4.64 | 7.11 |
| 1/1 | 1/1 | 4.11 | 7.04 |
| 1/1 | 1/1 | 4.06 | 7.03 |
| 0/1 | 1/1 | 2.48 | 5.74 |
| 1/1 | 1/1 | 7.7 | 6.12 |
| 1/1 | 0/1 | 3.94 | 2.51 |
| 1/1 | 1/1 | 6.76 | 5.52 |
| 1/1 | 1/1 | 5.91 | 5.04 |
| 1/1 | 1/1 | 4.43 | 3.81 |
| 1/1 | 1/1 | 8.16 | 7.55 |
| 1/1 | 1/1 | 8.35 | 7.74 |
| 1/1 | 1/1 | 9.83 | 7.81 |
| 1/1 | 1/1 | 4.91 | 3.86 |
| 0/1 | 1/1 | 2.79 | 3.95 |
| 0/1 | 1/1 | 3.46 | 4.93 |
| 1/1 | 1/1 | 4.83 | 2.89 |
| 1/1 | 1/1 | 5.56 | 4.48 |
| 1/1 | 1/1 | 2.91 | 4 |
| 1/1 | 0/1 | 5.55 | 2.97 |
| 1/1 | 0/1 | 4.68 | 3.05 |
| 1/1 | 0/1 | 7.5 | 6.19 |
| 1/1 | 1/1 | 4.77 | 3.48 |
| 1/1 | 0/1 | 7.13 | 6.21 |
| 1/1 | 1/1 | 6.24 | 5.42 |
| 1/1 | 0/1 | 4.03 | 3.31 |
| 1/1 | 1/1 | 8.34 | 7.71 |
| 1/1 | 1/1 | 4.61 | 4.03 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 0/1 | 1/1 | 4.08 | 5.92 |
| 1/1 | 1/1 | 4.36 | 6.83 |
| 1/1 | 0/1 | 5.07 | 2.65 |
| 1/1 | 1/1 | 7.56 | 5.37 |
| 1/1 | 1/1 | 5.29 | 3.69 |
| 1/1 | 0/1 | 5.38 | 3.78 |
| 0/1 | 1/1 | 3.58 | 4.54 |
| 1/1 | 1/1 | 7.37 | 7.02 |
| 1/1 | 1/1 | 5.39 | 5.23 |
| 1/1 | 1/1 | 7 | 6.86 |
| 1/1 | 1/1 | 8.87 | 8.73 |
| 1/1 | 1/1 | 5.54 | 5.61 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.07 | 3.27 |
| 1/1 | 1/1 | 5.8 | 8.47 |
| 1/1 | 1/1 | 4.16 | 6.99 |
| 1/1 | 1/1 | 3 | 7.13 |
| 1/1 | 1/1 | 6.77 | 6.15 |
| 1/1 | 1/1 | 10.03 | 9.44 |
| 1/1 | 1/1 | 7.96 | 7.65 |
| 1/1 | 1/1 | 7.31 | 7.08 |
| 0/1 | 1/1 | 8.11 | 8.05 |
| 0/1 | 1/1 | 7.12 | 7.14 |
| 0/1 | 1/1 | 7.96 | 8 |
| 1/1 | 1/1 | 8.2 | 8.36 |
| 0/1 | 1/1 | 6.18 | 8.6 |
| 1/1 | 1/1 | 6.57 | 8.99 |
| 1/1 | 1/1 | 7.73 | 10.18 |
| 1/1 | 1/1 | 7.5 | 9.96 |
| 1/1 | 1/1 | 7.32 | 9.84 |
| 1/1 | 1/1 | 4.9 | 7.42 |
| 1/1 | 1/1 | 7.72 | 10.32 |
| 1/1 | 1/1 | 5.59 | 8.28 |
| 0/1 | 1/1 | 5.43 | 8.14 |
| 1/1 | 1/1 | 7.55 | 10.34 |
| 0/1 | 1/1 | 3.56 | 6.78 |
| 0/1 | 1/1 | 3.3 | 7.55 |
| 1/1 | 1/1 | 5.85 | 3.52 |
| 0/1 | 1/1 | 3.48 | 4.18 |
| 1/1 | 1/1 | 4.49 | 5.21 |
| 0/1 | 1/1 | 5 | 6.27 |
| 1/1 | 0/1 | 6.01 | 4.28 |
| 1/1 | 0/1 | 5.52 | 4.03 |
| 1/1 | 1/1 | 8.07 | 7.87 |
| 1/1 | 1/1 | 8.77 | 8.91 |
| 1/1 | 1/1 | 6.76 | 6.93 |
| 1/1 | 1/1 | 6.73 | 7.04 |
| 0/1 | 1/1 | 3.43 | 6.36 |
| 1/1 | 0/1 | 5.29 | 4.37 |
| 1/1 | 1/1 | 6.2 | 5.37 |
| 1/1 | 1/1 | 8.53 | 8.22 |
| 1/1 | 1/1 | 5.92 | 5.65 |
| 1/1 | 1/1 | 8.61 | 8.41 |
| 1/1 | 1/1 | 5.23 | 5.08 |
| 1/1 | 1/1 | 8.48 | 8.37 |
| 0/1 | 1/1 | 6.73 | 6.7 |
| 1/1 | 1/1 | 8.86 | 8.9 |
| 1/1 | 1/1 | 7.73 | 7.77 |
| 1/1 | 1/1 | 5.56 | 7.76 |
| 0/1 | 1/1 | 3.07 | 5.35 |
| 1/1 | 1/1 | 3.95 | 6.36 |
| 0/1 | 1/1 | 4.28 | 6.72 |
| 1/1 | 1/1 | 7.12 | 9.58 |
| 1/1 | 1/1 | 5.86 | 4.17 |
| 1/1 | 0/1 | 5.29 | 3.63 |
| 1/1 | 0/1 | 3.93 | 3 |
| 1/1 | 1/1 | 6.12 | 7.57 |
| 1/1 | 1/1 | 5.96 | 3.99 |
| 1/1 | 1/1 | 3.05 | 4.25 |
| 1/1 | 1/1 | 7.66 | 5.49 |
| 1/1 | 1/1 | 4.03 | 4.98 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 6.25 | 3.13 |
| 1/1 | 1/1 | 5.59 | 5.53 |
| 0/1 | 1/1 | 2.05 | 2.59 |
| 1/1 | 1/1 | 4.28 | 5.11 |
| 1/1 | 0/1 | 4.95 | 2.97 |
| 1/1 | 1/1 | 4.32 | 2.8 |
| 1/1 | 0/1 | 3.6 | 2.4 |
| 1/1 | 1/1 | 6.2 | 5.17 |
| 0/1 | 1/1 | 4.27 | 5.28 |
| 1/1 | 1/1 | 7.12 | 4.27 |
| 1/1 | 1/1 | 7.97 | 5.66 |
| 1/1 | 1/1 | 7.13 | 5.02 |
| 1/1 | 1/1 | 6.21 | 4.24 |
| 1/1 | 0/1 | 4.77 | 2.85 |
| 1/1 | 1/1 | 6.15 | 6.34 |
| 1/1 | 0/1 | 5.42 | 3.3 |
| 1/1 | 1/1 | 4.58 | 5.45 |
| 1/1 | 1/1 | 6.44 | 5.34 |
| 1/1 | 0/1 | 5.21 | 4.18 |
| 1/1 | 1/1 | 5.97 | 5.22 |
| 1/1 | 1/1 | 5.76 | 5.23 |
| 1/1 | 1/1 | 5.03 | 4.7 |
| 0/1 | 1/1 | 5.88 | 5.74 |
| 1/1 | 0/1 | 5.99 | 4.71 |
| 1/1 | 1/1 | 11.18 | 10.18 |
| 1/1 | 1/1 | 9.89 | 9.08 |
| 1/1 | 1/1 | 9.25 | 8.57 |
| 0/1 | 1/1 | 2.06 | 4.56 |
| 1/1 | 1/1 | 6.19 | 5.11 |
| 1/1 | 1/1 | 10.04 | 9.65 |
| 1/1 | 1/1 | 3.73 | 3.48 |
| 0/1 | 1/1 | 2.39 | 2.29 |
| 1/1 | 0/1 | 6.29 | 4.82 |
| 1/1 | 0/1 | 5.04 | 4.18 |
| 1/1 | 1/1 | 7.87 | 7.07 |
| 1/1 | 1/1 | 3.58 | 2.94 |
| 0/1 | 1/1 | 4.15 | 5.82 |
| 1/1 | 1/1 | 9.7 | 8.39 |
| 1/1 | 1/1 | 4.23 | 3.39 |
| 1/1 | 1/1 | 4.74 | 4.2 |
| 1/1 | 1/1 | 7.34 | 6.95 |
| 1/1 | 1/1 | 5.7 | 5.36 |
| 0/1 | 1/1 | 5.35 | 7.23 |
| 1/1 | 1/1 | 5.39 | 7.33 |
| 1/1 | 1/1 | 5.04 | 7.02 |
| 1/1 | 1/1 | 3.68 | 6.08 |
| 1/1 | 1/1 | 9.8 | 8.89 |
| 1/1 | 1/1 | 5.77 | 4.97 |
| 1/1 | 1/1 | 6.56 | 5.96 |
| 1/1 | 1/1 | 6.67 | 6.09 |
| 0/1 | 1/1 | 7.05 | 6.53 |
| 1/1 | 1/1 | 7.27 | 7.01 |
| 1/1 | 1/1 | 7.07 | 6.94 |
| 1/1 | 1/1 | 3.02 | 2.92 |
| 1/1 | 1/1 | 8.29 | 8.23 |
| 1/1 | 1/1 | 2.8 | 4.98 |
| 1/1 | 1/1 | 4.4 | 6.71 |
| 0/1 | 1/1 | 3.47 | 6.21 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.46 | 5.45 |
| 1/1 | 0/1 | 5.7 | 2.51 |
| 1/1 | 1/1 | 6.43 | 4.01 |
| 1/1 | 1/1 | 7.74 | 7.54 |
| 1/1 | 1/1 | 3.39 | 3.22 |
| 1/1 | 1/1 | 8.49 | 8.33 |
| 0/1 | 1/1 | 3.63 | 3.55 |
| 0/1 | 1/1 | 7.29 | 7.46 |
| 1/1 | 0/1 | 4.48 | 3.4 |
| 0/1 | 1/1 | 3.15 | 2.79 |
| 1/1 | 1/1 | 7.05 | 6.76 |
| 1/1 | 1/1 | 8.14 | 7.89 |
| 1/1 | 1/1 | 7.57 | 7.34 |
| 1/1 | 1/1 | 8.62 | 8.51 |
| 0/1 | 1/1 | 3.76 | 5.67 |
| 0/1 | 1/1 | 3.36 | 5.72 |
| 1/1 | 1/1 | 6.65 | 5.62 |
| 1/1 | 1/1 | 8.14 | 7.49 |
| 1/1 | 1/1 | 8.71 | 8.11 |
| 1/1 | 1/1 | 7.03 | 6.69 |
| 1/1 | 1/1 | 6.94 | 6.71 |
| 1/1 | 1/1 | 7.2 | 6.98 |
| 1/1 | 1/1 | 7.92 | 7.73 |
| 1/1 | 1/1 | 7.97 | 7.87 |
| 1/1 | 1/1 | 7.09 | 7 |
| 1/1 | 1/1 | 9.19 | 9.11 |
| 1/1 | 0/1 | 3.47 | 2.36 |
| 1/1 | 1/1 | 3.44 | 2.96 |
| 1/1 | 1/1 | 5.93 | 5.47 |
| 1/1 | 1/1 | 4.1 | 3.86 |
| 1/1 | 1/1 | 5.31 | 4.75 |
| 1/1 | 1/1 | 8.13 | 7.58 |
| 1/1 | 1/1 | 6.5 | 5.98 |
| 1/1 | 1/1 | 8.08 | 7.56 |
| 1/1 | 1/1 | 10.84 | 10.34 |
| 1/1 | 1/1 | 10.95 | 10.44 |
| 1/1 | 1/1 | 9.49 | 9 |
| 0/1 | 1/1 | 5.27 | 4.87 |
| 1/1 | 1/1 | 8.17 | 7.78 |
| 1/1 | 1/1 | 7.92 | 7.7 |
| 1/1 | 1/1 | 5.99 | 5.78 |
| 0/1 | 1/1 | 7.16 | 6.97 |
| 1/1 | 1/1 | 7.5 | 7.34 |
| 0/1 | 1/1 | 5.73 | 5.6 |
| 1/1 | 1/1 | 6.47 | 6.34 |
| 1/1 | 1/1 | 9.18 | 9.05 |
| 1/1 | 1/1 | 5.97 | 5.89 |
| 1/1 | 1/1 | 5.67 | 5.64 |
| 1/1 | 1/1 | 6.87 | 6.85 |
| 1/1 | 1/1 | 6.55 | 6.56 |
| 1/1 | 1/1 | 6.89 | 6.92 |
| 1/1 | 1/1 | 4.55 | 4.64 |
| 1/1 | 1/1 | 5.29 | 5.39 |
| 1/1 | 1/1 | 10.99 | 11.27 |
| 1/1 | 1/1 | 6.47 | 6.8 |
| 1/1 | 1/1 | 5.7 | 6.11 |
| 0/1 | 1/1 | 4.84 | 5.26 |
| 1/1 | 1/1 | 7.08 | 9.55 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.56 | 10.05 |
| 0/1 | 1/1 | 4.08 | 6.66 |
| 1/1 | 1/1 | 6.79 | 9.54 |
| 1/1 | 1/1 | 7.42 | 10.27 |
| 1/1 | 1/1 | 6.29 | 9.28 |
| 1/1 | 1/1 | 4.15 | 7.43 |
| 1/1 | 1/1 | 5.2 | 8.59 |
| 1/1 | 1/1 | 4.35 | 7.74 |
| 1/1 | 1/1 | 3.84 | 7.41 |
| 0/1 | 1/1 | 3.81 | 7.57 |
| 1/1 | 1/1 | 3.71 | 7.84 |
| 1/1 | 0/1 | 5.75 | 2.84 |
| 1/1 | 1/1 | 8.42 | 8.53 |
| 1/1 | 1/1 | 4.88 | 4.56 |
| 1/1 | 1/1 | 9.99 | 10.22 |
| 1/1 | 1/1 | 5.26 | 4.33 |
| 1/1 | 1/1 | 9.27 | 8.75 |
| 1/1 | 1/1 | 5.86 | 5.47 |
| 1/1 | 1/1 | 8.17 | 8.03 |
| 1/1 | 1/1 | 12.64 | 12.51 |
| 1/1 | 1/1 | 4.13 | 4.04 |
| 1/1 | 1/1 | 7.33 | 7.32 |
| 1/1 | 1/1 | 8.58 | 8.61 |
| 1/1 | 1/1 | 8.72 | 6.66 |
| 1/1 | 1/1 | 4.58 | 3.46 |
| 0/1 | 1/1 | 4.28 | 5.27 |
| 0/1 | 1/1 | 1.99 | 3.23 |
| 1/1 | 1/1 | 4.61 | 3.3 |
| 1/1 | 0/1 | 3.17 | 2.37 |
| 1/1 | 1/1 | 5.64 | 5.09 |
| 1/1 | 1/1 | 6.66 | 6.14 |
| 1/1 | 1/1 | 6.11 | 5.67 |
| 1/1 | 1/1 | 6.89 | 6.49 |
| 1/1 | 1/1 | 5.38 | 5.18 |
| 1/1 | 1/1 | 5.11 | 4.94 |
| 1/1 | 1/1 | 4.85 | 4.79 |
| 1/1 | 1/1 | 5.81 | 5.02 |
| 1/1 | 1/1 | 5.25 | 4.71 |
| 1/1 | 1/1 | 7.09 | 6.72 |
| 1/1 | 1/1 | 6.15 | 5.86 |
| 1/1 | 1/1 | 2.56 | 2.31 |
| 1/1 | 1/1 | 4.79 | 4.56 |
| 1/1 | 1/1 | 6.14 | 5.92 |
| 1/1 | 1/1 | 8.45 | 8.23 |
| 1/1 | 1/1 | 5.86 | 5.74 |
| 1/1 | 1/1 | 5.12 | 5.07 |
| 1/1 | 1/1 | 7.81 | 7.77 |
| 1/1 | 1/1 | 6.97 | 7 |
| 0/1 | 1/1 | 4.78 | 4.9 |
| 1/1 | 1/1 | 4.12 | 4.26 |
| 0/1 | 1/1 | 6.63 | 6.78 |
| 0/1 | 1/1 | 4.14 | 4.31 |
| 1/1 | 1/1 | 5.56 | 7.78 |
| 1/1 | 1/1 | 4.53 | 6.81 |
| 1/1 | 1/1 | 5.71 | 8.04 |
| 0/1 | 1/1 | 3.15 | 6.08 |
| 1/1 | 1/1 | 4.05 | 6.99 |
| 0/1 | 1/1 | 3.3 | 6.25 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.68 | 6.65 |
| 0/1 | 1/1 | 4.29 | 7.52 |
| 1/1 | 0/1 | 6.99 | 5.6 |
| 1/1 | 1/1 | 3.88 | 2.76 |
| 0/1 | 1/1 | 3.46 | 2.69 |
| 1/1 | 1/1 | 6.05 | 5.38 |
| 1/1 | 0/1 | 6.51 | 5.9 |
| 1/1 | 1/1 | 3.83 | 3.38 |
| 0/1 | 1/1 | 2.55 | 4.94 |
| 1/1 | 1/1 | 2.84 | 5.32 |
| 1/1 | 1/1 | 11.63 | 6.07 |
| 1/1 | 1/1 | 10.32 | 5.62 |
| 1/1 | 1/1 | 9.92 | 7.71 |
| 1/1 | 1/1 | 5.87 | 4.48 |
| 1/1 | 0/1 | 5.88 | 4.49 |
| 1/1 | 1/1 | 7.01 | 6.16 |
| 1/1 | 0/1 | 5.33 | 4.68 |
| 1/1 | 1/1 | 5.2 | 4.66 |
| 1/1 | 1/1 | 8.6 | 8.36 |
| 1/1 | 1/1 | 7.97 | 7.83 |
| 1/1 | 1/1 | 9.12 | 9.11 |
| 1/1 | 1/1 | 8.45 | 8.66 |
| 0/1 | 1/1 | 5.75 | 6.07 |
| 1/1 | 1/1 | 6.08 | 6.53 |
| 0/1 | 1/1 | 5.66 | 6.3 |
| 1/1 | 1/1 | 6.88 | 6.05 |
| 0/1 | 1/1 | 4.51 | 4.25 |
| 1/1 | 1/1 | 11.72 | 11.59 |
| 0/1 | 1/1 | 6.73 | 6.66 |
| 1/1 | 1/1 | 3.64 | 3.77 |
| 1/1 | 1/1 | 4.62 | 7.18 |
| 1/1 | 0/1 | 6.67 | 2.78 |
| 1/1 | 1/1 | 6.86 | 5.97 |
| 1/1 | 1/1 | 6.84 | 5.97 |
| 1/1 | 1/1 | 6.08 | 5.53 |
| 1/1 | 1/1 | 7.56 | 7.07 |
| 1/1 | 1/1 | 5.77 | 5.33 |
| 0/1 | 1/1 | 3.33 | 3.04 |
| 1/1 | 1/1 | 6.29 | 6.04 |
| 1/1 | 1/1 | 6.15 | 5.9 |
| 1/1 | 1/1 | 6 | 5.79 |
| 0/1 | 1/1 | 3.25 | 3.05 |
| 0/1 | 1/1 | 6.39 | 6.21 |
| 1/1 | 1/1 | 10.93 | 10.91 |
| 1/1 | 1/1 | 5.86 | 5.85 |
| 0/1 | 1/1 | 2.83 | 2.84 |
| 1/1 | 1/1 | 2.7 | 2.76 |
| 1/1 | 1/1 | 9.34 | 9.42 |
| 1/1 | 1/1 | 11.06 | 11.26 |
| 0/1 | 1/1 | 4.92 | 5.14 |
| 1/1 | 1/1 | 8.28 | 8.54 |
| 0/1 | 1/1 | 3.07 | 3.58 |
| 1/1 | 1/1 | 9.74 | 7.88 |
| 1/1 | 0/1 | 6.46 | 5.02 |
| 1/1 | 1/1 | 8.65 | 7.39 |
| 1/1 | 1/1 | 6.85 | 5.79 |
| 1/1 | 1/1 | 7.78 | 6.78 |
| 1/1 | 1/1 | 6.29 | 4.75 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 9.48 | 8.64 |
| 1/1 | 1/1 | 8.97 | 8.17 |
| 1/1 | 1/1 | 7.08 | 8.66 |
| 0/1 | 1/1 | 4.4 | 6.29 |
| 0/1 | 1/1 | 2.3 | 4.27 |
| 0/1 | 1/1 | 5.24 | 7.29 |
| 0/1 | 1/1 | 4.5 | 6.93 |
| 1/1 | 1/1 | 3.53 | 2.74 |
| 1/1 | 1/1 | 5.44 | 5.02 |
| 1/1 | 1/1 | 5.54 | 5.28 |
| 1/1 | 1/1 | 8.05 | 7.83 |
| 1/1 | 1/1 | 2.24 | 2.04 |
| 1/1 | 1/1 | 7.22 | 7.11 |
| 1/1 | 1/1 | 5.7 | 5.62 |
| 1/1 | 1/1 | 3.8 | 3.74 |
| 1/1 | 1/1 | 3.84 | 3.79 |
| 1/1 | 1/1 | 2.38 | 2.35 |
| 1/1 | 1/1 | 8.96 | 8.95 |
| 0/1 | 1/1 | 2.24 | 2.23 |
| 1/1 | 1/1 | 4.76 | 4.83 |
| 1/1 | 1/1 | 4.14 | 4.26 |
| 1/1 | 1/1 | 6.04 | 6.16 |
| 1/1 | 1/1 | 6.08 | 6.25 |
| 0/1 | 1/1 | 6.03 | 8.3 |
| 1/1 | 1/1 | 4.69 | 6.98 |
| 1/1 | 1/1 | 4.54 | 7.09 |
| 0/1 | 1/1 | 2.93 | 6.05 |
| 1/1 | 1/1 | 4.18 | 7.85 |
| 1/1 | 1/1 | 5.8 | 3.97 |
| 1/1 | 1/1 | 2.6 | 4.17 |
| 1/1 | 0/1 | 4.48 | 2.32 |
| 1/1 | 1/1 | 9.37 | 7.31 |
| 1/1 | 1/1 | 6.51 | 4.55 |
| 1/1 | 1/1 | 5.6 | 3.92 |
| 1/1 | 1/1 | 5.04 | 3.46 |
| 1/1 | 1/1 | 2.85 | 3.78 |
| 0/1 | 1/1 | 3.8 | 4.91 |
| 0/1 | 1/1 | 2.69 | 3.83 |
| 0/1 | 1/1 | 3.18 | 4.37 |
| 0/1 | 1/1 | 2.18 | 3.5 |
| 0/1 | 1/1 | 2.54 | 3.94 |
| 1/1 | 0/1 | 5.46 | 3.21 |
| 1/1 | 0/1 | 4.15 | 2.19 |
| 1/1 | 1/1 | 4.62 | 2.7 |
| 1/1 | 1/1 | 4.15 | 4.9 |
| 1/1 | 1/1 | 10.09 | 9.04 |
| 1/1 | 0/1 | 3.1 | 2.26 |
| 1/1 | 1/1 | 7.96 | 7.22 |
| 0/1 | 1/1 | 4.25 | 3.62 |
| 1/1 | 1/1 | 7.19 | 6.66 |
| 1/1 | 1/1 | 4.57 | 4.17 |
| 1/1 | 1/1 | 7.81 | 7.42 |
| 1/1 | 1/1 | 3.81 | 3.61 |
| 1/1 | 1/1 | 6.02 | 5.83 |
| 1/1 | 1/1 | 4.12 | 3.96 |
| 1/1 | 1/1 | 6.63 | 6.49 |
| 1/1 | 1/1 | 9.52 | 8 |
| 1/1 | 1/1 | 5.78 | 4.93 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.18 | 7.94 |
| 1/1 | 1/1 | 10.57 | 8.74 |
| 1/1 | 1/1 | 8.74 | 7.13 |
| 1/1 | 0/1 | 5.54 | 4.23 |
| 1/1 | 0/1 | 7.5 | 5.05 |
| 1/1 | 1/1 | 8.56 | 6.55 |
| 1/1 | 1/1 | 6.42 | 7.22 |
| 1/1 | 1/1 | 4.65 | 5.71 |
| 1/1 | 1/1 | 7.26 | 6.12 |
| 1/1 | 1/1 | 7.71 | 6.73 |
| 1/1 | 1/1 | 7.33 | 6.43 |
| 1/1 | 1/1 | 6.87 | 6.01 |
| 1/1 | 1/1 | 4.74 | 4.24 |
| 1/1 | 1/1 | 10.83 | 10.37 |
| 1/1 | 1/1 | 5.06 | 4.63 |
| 1/1 | 1/1 | 7.84 | 7.48 |
| 0/1 | 1/1 | 3.39 | 3.19 |
| 1/1 | 1/1 | 7.91 | 7.74 |
| 1/1 | 1/1 | 7.77 | 7.6 |
| 1/1 | 1/1 | 4.96 | 7.66 |
| 1/1 | 1/1 | 7.12 | 5.67 |
| 1/1 | 1/1 | 3.66 | 2.89 |
| 1/1 | 1/1 | 6.33 | 5.61 |
| 1/1 | 1/1 | 6.15 | 5.53 |
| 1/1 | 1/1 | 4.03 | 3.47 |
| 1/1 | 1/1 | 7.66 | 7.13 |
| 0/1 | 1/1 | 3.86 | 5.79 |
| 1/1 | 1/1 | 9.94 | 8.22 |
| 1/1 | 1/1 | 5.18 | 3.86 |
| 1/1 | 1/1 | 6.75 | 5.5 |
| 1/1 | 1/1 | 6.89 | 6.09 |
| 1/1 | 1/1 | 7.61 | 6.46 |
| 1/1 | 1/1 | 4.9 | 6.72 |
| 0/1 | 1/1 | 5.3 | 7.26 |
| 1/1 | 1/1 | 6.47 | 5.7 |
| 1/1 | 1/1 | 4.57 | 3.88 |
| 1/1 | 1/1 | 5.68 | 5.15 |
| 1/1 | 1/1 | 7.27 | 6.96 |
| 1/1 | 1/1 | 6.23 | 6.05 |
| 1/1 | 1/1 | 7.58 | 7.46 |
| 1/1 | 1/1 | 7.92 | 7.82 |
| 1/1 | 1/1 | 6.54 | 6.45 |
| 1/1 | 1/1 | 6.22 | 6.22 |
| 1/1 | 1/1 | 5.39 | 5.43 |
| 1/1 | 1/1 | 8.08 | 8.15 |
| 0/1 | 1/1 | 5.14 | 5.23 |
| 1/1 | 1/1 | 8.15 | 8.26 |
| 1/1 | 1/1 | 6.62 | 6.73 |
| 1/1 | 1/1 | 8.43 | 8.56 |
| 0/1 | 1/1 | 6.9 | 7.03 |
| 0/1 | 1/1 | 6.61 | 6.76 |
| 1/1 | 1/1 | 10.33 | 10.49 |
| 0/1 | 1/1 | 6.77 | 6.94 |
| 1/1 | 1/1 | 4.73 | 6.96 |
| 1/1 | 1/1 | 6.46 | 8.9 |
| 1/1 | 1/1 | 7.9 | 5.82 |
| 1/1 | 1/1 | 7.07 | 5.91 |
| 1/1 | 1/1 | 4.86 | 6.12 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.02 | 4.39 |
| 1/1 | 0/1 | 3.07 | 2.09 |
| 1/1 | 0/1 | 6.69 | 5.96 |
| 0/1 | 1/1 | 3.89 | 5.22 |
| 1/1 | 0/1 | 5.37 | 3.62 |
| 1/1 | 1/1 | 8.91 | 7.38 |
| 1/1 | 1/1 | 5.15 | 4.25 |
| 1/1 | 1/1 | 4.09 | 5.41 |
| 1/1 | 1/1 | 8.67 | 6.94 |
| 1/1 | 1/1 | 6.3 | 5.19 |
| 1/1 | 1/1 | 3.56 | 2.52 |
| 1/1 | 1/1 | 5.78 | 4.97 |
| 1/1 | 1/1 | 4.62 | 3.27 |
| 1/1 | 1/1 | 6.27 | 4.93 |
| 1/1 | 1/1 | 6.01 | 5.12 |
| 1/1 | 0/1 | 3.12 | 2.3 |
| 1/1 | 1/1 | 5.39 | 7.01 |
| 1/1 | 0/1 | 5.08 | 3.15 |
| 1/1 | 0/1 | 3.81 | 2.82 |
| 1/1 | 0/1 | 4.45 | 3.03 |
| 1/1 | 1/1 | 8.48 | 7.69 |
| 1/1 | 1/1 | 6.68 | 6.11 |
| 1/1 | 1/1 | 3.2 | 5.39 |
| 1/1 | 1/1 | 10.13 | 6.87 |
| 1/1 | 1/1 | 9.95 | 7.56 |
| 1/1 | 1/1 | 5.93 | 3.57 |
| 1/1 | 1/1 | 8.13 | 7.83 |
| 1/1 | 1/1 | 11.64 | 11.6 |
| 1/1 | 1/1 | 8.15 | 8.22 |
| 1/1 | 1/1 | 6.51 | 6.59 |
| 1/1 | 1/1 | 5.03 | 3.1 |
| 1/1 | 1/1 | 6.06 | 4.49 |
| 1/1 | 1/1 | 3.89 | 5.04 |
| 1/1 | 0/1 | 5.79 | 3.38 |
| 1/1 | 1/1 | 5.28 | 3.07 |
| 1/1 | 1/1 | 8.11 | 6.17 |
| 1/1 | 1/1 | 6.66 | 4.75 |
| 1/1 | 1/1 | 4.91 | 3.08 |
| 1/1 | 0/1 | 5.48 | 3.7 |
| 1/1 | 1/1 | 7.69 | 6.68 |
| 1/1 | 1/1 | 5.57 | 4.63 |
| 1/1 | 1/1 | 7.16 | 6.3 |
| 1/1 | 1/1 | 7.11 | 8.3 |
| 1/1 | 0/1 | 6.33 | 2.94 |
| 1/1 | 1/1 | 7.56 | 4.62 |
| 1/1 | 1/1 | 7.39 | 4.76 |
| 1/1 | 1/1 | 7.24 | 4.64 |
| 1/1 | 1/1 | 7.17 | 4.68 |
| 1/1 | 1/1 | 3.52 | 3.44 |
| 1/1 | 1/1 | 5.96 | 5.9 |
| 1/1 | 1/1 | 5.16 | 5.17 |
| 1/1 | 1/1 | 11.73 | 11.86 |
| 1/1 | 0/1 | 3.41 | 1.5 |
| 1/1 | 1/1 | 5.86 | 4.85 |
| 1/1 | 1/1 | 10.31 | 9.31 |
| 0/1 | 1/1 | 6.16 | 7.45 |
| 0/1 | 1/1 | 4.54 | 6.03 |
| 1/1 | 0/1 | 4.17 | 2.8 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.85 | 8.15 |
| 1/1 | 1/1 | 7.24 | 6.76 |
| 1/1 | 1/1 | 6.85 | 6.39 |
| 0/1 | 1/1 | 3.93 | 5.56 |
| 1/1 | 1/1 | 4.66 | 6.69 |
| 1/1 | 1/1 | 2.7 | 2.18 |
| 1/1 | 1/1 | 7.68 | 7.36 |
| 0/1 | 1/1 | 6.04 | 5.77 |
| 1/1 | 1/1 | 4.99 | 4.76 |
| 0/1 | 1/1 | 6.47 | 6.3 |
| 1/1 | 1/1 | 7.61 | 7.82 |
| 1/1 | 1/1 | 4.07 | 3.45 |
| 1/1 | 1/1 | 4.66 | 4.3 |
| 1/1 | 1/1 | 3.26 | 2.91 |
| 0/1 | 1/1 | 6.32 | 6.24 |
| 1/1 | 1/1 | 2.23 | 2.27 |
| 1/1 | 1/1 | 6.16 | 6.26 |
| 1/1 | 1/1 | 10.41 | 10.73 |
| 0/1 | 1/1 | 3.11 | 5.66 |
| 1/1 | 1/1 | 4.68 | 7.28 |
| 1/1 | 1/1 | 6.06 | 4.19 |
| 1/1 | 1/1 | 5.4 | 4.11 |
| 1/1 | 1/1 | 7.14 | 6.79 |
| 1/1 | 1/1 | 4.49 | 4.16 |
| 1/1 | 1/1 | 4.76 | 4.44 |
| 1/1 | 1/1 | 7.09 | 6.91 |
| 1/1 | 1/1 | 8.15 | 7.99 |
| 1/1 | 1/1 | 9.58 | 9.49 |
| 1/1 | 1/1 | 7.22 | 7.15 |
| 1/1 | 1/1 | 7.58 | 7.59 |
| 0/1 | 1/1 | 3.58 | 3.7 |
| 1/1 | 1/1 | 9.3 | 9.45 |
| 1/1 | 1/1 | 5.67 | 6.01 |
| 1/1 | 1/1 | 7.29 | 7.69 |
| 1/1 | 1/1 | 6.36 | 6.77 |
| 1/1 | 1/1 | 10.56 | 10.99 |
| 1/1 | 1/1 | 6.53 | 7.02 |
| 0/1 | 1/1 | 4.74 | 7.49 |
| 1/1 | 1/1 | 4.04 | 6.91 |
| 0/1 | 1/1 | 2.57 | 6.37 |
| 1/1 | 0/1 | 6.29 | 4.82 |
| 1/1 | 0/1 | 5.04 | 4.18 |
| 1/1 | 1/1 | 7.87 | 7.07 |
| 1/1 | 1/1 | 3.58 | 2.94 |
| 1/1 | 1/1 | 8.49 | 4.35 |
| 1/1 | 1/1 | 9.97 | 10.41 |
| 1/1 | 1/1 | 8.8 | 6.39 |
| 1/1 | 1/1 | 9.52 | 7.19 |
| 1/1 | 1/1 | 8.01 | 6.14 |
| 1/1 | 0/1 | 3.42 | 2.11 |
| 1/1 | 1/1 | 4.86 | 6.01 |
| 0/1 | 1/1 | 4.69 | 6.16 |
| 0/1 | 1/1 | 4.32 | 5.81 |
| 1/1 | 1/1 | 5.43 | 7.14 |
| 1/1 | 0/1 | 6.99 | 5.75 |
| 1/1 | 1/1 | 5.66 | 4.68 |
| 1/1 | 1/1 | 5.69 | 4.85 |
| 1/1 | 1/1 | 6.02 | 5.33 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.07 | 7.47 |
| 1/1 | 1/1 | 5.76 | 5.23 |
| 1/1 | 1/1 | 8.43 | 7.92 |
| 1/1 | 1/1 | 7.15 | 6.73 |
| 1/1 | 1/1 | 6.74 | 6.39 |
| 1/1 | 1/1 | 6.3 | 5.96 |
| 1/1 | 1/1 | 6.91 | 6.58 |
| 1/1 | 1/1 | 7.65 | 7.33 |
| 1/1 | 1/1 | 4.97 | 3.22 |
| 1/1 | 1/1 | 3.53 | 2.63 |
| 1/1 | 1/1 | 5.18 | 6.66 |
| 0/1 | 1/1 | 4.38 | 5.93 |
| 1/1 | 0/1 | 6.55 | 2.67 |
| 1/1 | 0/1 | 6.17 | 2.7 |
| 1/1 | 0/1 | 6.26 | 2.84 |
| 1/1 | 1/1 | 3.3 | 2.68 |
| 1/1 | 0/1 | 3.14 | 2.54 |
| 1/1 | 1/1 | 6.46 | 5.91 |
| 1/1 | 1/1 | 3.79 | 3.31 |
| 1/1 | 0/1 | 2.95 | 2.47 |
| 1/1 | 1/1 | 2.55 | 2.41 |
| 1/1 | 1/1 | 4.06 | 3.6 |
| 1/1 | 1/1 | 8.18 | 8.59 |
| 0/1 | 1/1 | 2.8 | 3.26 |
| 1/1 | 1/1 | 5.74 | 8.62 |
| 1/1 | 1/1 | 4.09 | 7.01 |
| 1/1 | 1/1 | 8.9 | 6.16 |
| 1/1 | 1/1 | 2.45 | 2.79 |
| 1/1 | 1/1 | 10.89 | 7.5 |
| 1/1 | 1/1 | 8.41 | 5.92 |
| 1/1 | 1/1 | 7.78 | 7.46 |
| 1/1 | 1/1 | 10.71 | 10.41 |
| 1/1 | 1/1 | 10.02 | 10.01 |
| 1/1 | 1/1 | 6.35 | 3.16 |
| 1/1 | 1/1 | 7.4 | 5 |
| 1/1 | 1/1 | 8.89 | 8.69 |
| 0/1 | 1/1 | 2.92 | 3.32 |
| 1/1 | 1/1 | 4.47 | 3.77 |
| 1/1 | 1/1 | 3.11 | 2.47 |
| 1/1 | 1/1 | 10.62 | 10.25 |
| 1/1 | 1/1 | 6.66 | 6.71 |
| 1/1 | 1/1 | 6.68 | 6.76 |
| 1/1 | 1/1 | 11.07 | 11.19 |
| 1/1 | 1/1 | 5.35 | 5.54 |
| 0/1 | 1/1 | 3.18 | 5.52 |
| 0/1 | 1/1 | 3.03 | 5.38 |
| 1/1 | 1/1 | 8.18 | 5.92 |
| 0/1 | 1/1 | 3.33 | 4.1 |
| 1/1 | 1/1 | 9.35 | 7.75 |
| 1/1 | 1/1 | 6.56 | 5.75 |
| 1/1 | 1/1 | 5.78 | 7.38 |
| 1/1 | 0/1 | 4.01 | 2.53 |
| 1/1 | 1/1 | 5.27 | 4.53 |
| 1/1 | 1/1 | 4.57 | 6.23 |
| 1/1 | 1/1 | 5.75 | 7.42 |
| 0/1 | 1/1 | 2.47 | 4.42 |
| 1/1 | 0/1 | 5.96 | 3.26 |
| 1/1 | 1/1 | 8.75 | 9.33 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.03 | 4.3 |
| 1/1 | 1/1 | 8.88 | 7.72 |
| 1/1 | 1/1 | 4.59 | 3.58 |
| 1/1 | 1/1 | 7.91 | 7.03 |
| 1/1 | 1/1 | 6.31 | 5.44 |
| 1/1 | 1/1 | 7.56 | 5.58 |
| 1/1 | 1/1 | 4.24 | 5.24 |
| 0/1 | 1/1 | 3.3 | 4.75 |
| 1/1 | 0/1 | 6.45 | 4.47 |
| 1/1 | 0/1 | 4.88 | 3.04 |
| 1/1 | 1/1 | 5.61 | 4.48 |
| 1/1 | 1/1 | 7.69 | 6.88 |
| 1/1 | 1/1 | 8.02 | 7.45 |
| 1/1 | 1/1 | 6.12 | 5.65 |
| 1/1 | 1/1 | 6.11 | 5.76 |
| 0/1 | 1/1 | 3.9 | 3.83 |
| 1/1 | 1/1 | 7.22 | 7.22 |
| 1/1 | 1/1 | 3.05 | 3.09 |
| 0/1 | 1/1 | 2.48 | 2.53 |
| 1/1 | 1/1 | 4.26 | 4.31 |
| 0/1 | 1/1 | 2.27 | 2.38 |
| 0/1 | 1/1 | 1.91 | 4.17 |
| 1/1 | 1/1 | 4.04 | 6.61 |
| 1/1 | 0/1 | 4.76 | 2.09 |
| 1/1 | 1/1 | 3.72 | 4.27 |
| 1/1 | 1/1 | 6.43 | 4.44 |
| 1/1 | 1/1 | 4.94 | 6.01 |
| 0/1 | 1/1 | 2.78 | 3.93 |
| 1/1 | 1/1 | 3.83 | 5.49 |
| 1/1 | 0/1 | 6.8 | 4.94 |
| 1/1 | 0/1 | 5.21 | 3.66 |
| 1/1 | 1/1 | 5.54 | 4.41 |
| 1/1 | 0/1 | 6.29 | 4.82 |
| 1/1 | 0/1 | 5.04 | 4.18 |
| 1/1 | 1/1 | 7.87 | 7.07 |
| 1/1 | 1/1 | 3.58 | 2.94 |
| 1/1 | 0/1 | 4.86 | 2.84 |
| 1/1 | 1/1 | 6 | 7.97 |
| 1/1 | 1/1 | 6.33 | 4.29 |
| 1/1 | 1/1 | 5.84 | 4.22 |
| 1/1 | 1/1 | 6.82 | 5.7 |
| 1/1 | 1/1 | 6.16 | 7.19 |
| 1/1 | 1/1 | 4.99 | 6.1 |
| 1/1 | 0/1 | 6.29 | 4.82 |
| 1/1 | 0/1 | 5.04 | 4.18 |
| 1/1 | 1/1 | 7.87 | 7.07 |
| 1/1 | 1/1 | 3.58 | 2.94 |
| 1/1 | 1/1 | 7.72 | 5.07 |
| 1/1 | 1/1 | 8.75 | 6.32 |
| 1/1 | 1/1 | 7.3 | 5.37 |
| 1/1 | 1/1 | 9.08 | 7.26 |
| 1/1 | 0/1 | 4.91 | 2.79 |
| 1/1 | 0/1 | 5.93 | 4.43 |
| 1/1 | 1/1 | 9.16 | 7.67 |
| 1/1 | 1/1 | 6.52 | 5.26 |
| 0/1 | 1/1 | 2.07 | 3.12 |
| 1/1 | 0/1 | 5.48 | 2.39 |
| 1/1 | 1/1 | 6.5 | 6.43 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2 | 2.41 |
| 1/1 | 0/1 | 4.56 | 3.6 |
| 1/1 | 0/1 | 8.57 | 7.75 |
| 1/1 | 1/1 | 8.48 | 8.38 |
| 1/1 | 1/1 | 7.25 | 7.14 |
| 1/1 | 1/1 | 5.75 | 5.67 |
| 1/1 | 1/1 | 5.69 | 7.93 |
| 1/1 | 1/1 | 9.91 | 4.3 |
| 1/1 | 0/1 | 8.85 | 3.52 |
| 1/1 | 1/1 | 10.05 | 5.01 |
| 1/1 | 1/1 | 9.01 | 4.02 |
| 1/1 | 1/1 | 8.56 | 6.18 |
| 1/1 | 1/1 | 9.29 | 7.49 |
| 1/1 | 1/1 | 3.88 | 2.89 |
| 1/1 | 1/1 | 4.44 | 3.46 |
| 1/1 | 0/1 | 2.95 | 2.09 |
| 1/1 | 1/1 | 5.42 | 4.7 |
| 1/1 | 0/1 | 5.92 | 5.22 |
| 1/1 | 1/1 | 3.56 | 3.21 |
| 0/1 | 1/1 | 2.44 | 2.38 |
| 0/1 | 1/1 | 3.68 | 3.7 |
| 1/1 | 1/1 | 11.1 | 11.15 |
| 1/1 | 1/1 | 10.62 | 9.72 |
| 1/1 | 1/1 | 5.06 | 7.08 |
| 1/1 | 1/1 | 10.04 | 9.19 |
| 1/1 | 1/1 | 8.97 | 8.65 |
| 1/1 | 1/1 | 6.99 | 6.78 |
| 1/1 | 1/1 | 3.07 | 5.46 |
| 1/1 | 1/1 | 2.73 | 5.16 |
| 1/1 | 0/1 | 4.99 | 3.97 |
| 1/1 | 1/1 | 11.1 | 10.29 |
| 1/1 | 1/1 | 7.62 | 7.33 |
| 1/1 | 0/1 | 6.33 | 6.06 |
| 1/1 | 1/1 | 3.57 | 3.29 |
| 1/1 | 1/1 | 7.01 | 6.74 |
| 1/1 | 1/1 | 6.57 | 6.33 |
| 1/1 | 1/1 | 6.81 | 6.64 |
| 1/1 | 1/1 | 6.52 | 6.4 |
| 1/1 | 1/1 | 9.08 | 7.06 |
| 1/1 | 1/1 | 4.14 | 2.59 |
| 1/1 | 1/1 | 4.9 | 3.39 |
| 1/1 | 1/1 | 4.38 | 5.66 |
| 1/1 | 0/1 | 4.04 | 2.91 |
| 1/1 | 1/1 | 7.8 | 6.79 |
| 1/1 | 1/1 | 5.37 | 4.86 |
| 1/1 | 1/1 | 6.89 | 6.42 |
| 1/1 | 1/1 | 3.99 | 3.59 |
| 1/1 | 1/1 | 4.9 | 4.5 |
| 1/1 | 1/1 | 4.24 | 2.91 |
| 1/1 | 1/1 | 6.9 | 5.92 |
| 1/1 | 1/1 | 5.48 | 4.78 |
| 1/1 | 1/1 | 5.54 | 4.92 |
| 1/1 | 1/1 | 4.4 | 4.1 |
| 1/1 | 1/1 | 8.14 | 8.3 |
| 1/1 | 1/1 | 5.51 | 5.78 |
| 1/1 | 1/1 | 5.37 | 5.94 |
| 1/1 | 1/1 | 6.16 | 6.74 |
| 1/1 | 1/1 | 5.19 | 7.89 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.28 | 7.26 |
| 1/1 | 1/1 | 5.46 | 8.6 |
| 1/1 | 1/1 | 7.73 | 10.91 |
| 0/1 | 1/1 | 3.18 | 6.45 |
| 1/1 | 1/1 | 6.21 | 9.6 |
| 1/1 | 1/1 | 5.56 | 9.28 |
| 1/1 | 1/1 | 5.98 | 9.93 |
| 1/1 | 1/1 | 11.32 | 9.55 |
| 1/1 | 1/1 | 5.71 | 6.94 |
| 0/1 | 1/1 | 2.47 | 3.82 |
| 1/1 | 1/1 | 8.27 | 6.66 |
| 1/1 | 1/1 | 7.13 | 5.88 |
| 1/1 | 0/1 | 3.91 | 2.83 |
| 1/1 | 1/1 | 4.38 | 3.32 |
| 1/1 | 0/1 | 3.19 | 2.23 |
| 1/1 | 1/1 | 3.67 | 3.21 |
| 1/1 | 1/1 | 4.98 | 4.58 |
| 0/1 | 1/1 | 4.49 | 4.15 |
| 1/1 | 0/1 | 3.78 | 3.54 |
| 1/1 | 1/1 | 4.03 | 6.07 |
| 1/1 | 1/1 | 4.19 | 6.41 |
| 1/1 | 1/1 | 3.19 | 5.91 |
| 0/1 | 1/1 | 1.93 | 4.8 |
| 1/1 | 0/1 | 5.22 | 3.87 |
| 1/1 | 1/1 | 6.71 | 6.19 |
| 1/1 | 1/1 | 4.21 | 5.87 |
| 0/1 | 1/1 | 4.63 | 6.61 |
| 1/1 | 1/1 | 7.27 | 5.26 |
| 1/1 | 1/1 | 7.54 | 5.78 |
| 1/1 | 0/1 | 4.58 | 2.84 |
| 1/1 | 1/1 | 6.7 | 4.98 |
| 1/1 | 1/1 | 6.31 | 5.02 |
| 0/1 | 1/1 | 4.69 | 6.17 |
| 1/1 | 1/1 | 6.2 | 5.08 |
| 1/1 | 0/1 | 4.97 | 4.27 |
| 1/1 | 1/1 | 6.87 | 6.24 |
| 1/1 | 1/1 | 5.1 | 4.59 |
| 1/1 | 1/1 | 9.21 | 8.76 |
| 1/1 | 1/1 | 10.95 | 10.57 |
| 0/1 | 1/1 | 7.35 | 7.06 |
| 0/1 | 1/1 | 3.86 | 3.6 |
| 0/1 | 1/1 | 4.95 | 4.75 |
| 0/1 | 1/1 | 3.66 | 5.51 |
| 1/1 | 0/1 | 5.64 | 3.84 |
| 1/1 | 1/1 | 9.49 | 7.84 |
| 1/1 | 1/1 | 4.13 | 2.85 |
| 1/1 | 1/1 | 6.79 | 5.67 |
| 1/1 | 1/1 | 4.12 | 6.25 |
| 1/1 | 0/1 | 8.23 | 6.33 |
| 1/1 | 1/1 | 8.35 | 6.96 |
| 1/1 | 1/1 | 2.8 | 3.88 |
| 1/1 | 1/1 | 4.52 | 6.17 |
| 1/1 | 1/1 | 4.84 | 3.85 |
| 0/1 | 1/1 | 3.95 | 3.02 |
| 1/1 | 1/1 | 4.33 | 3.86 |
| 1/1 | 1/1 | 3.92 | 3.64 |
| 1/1 | 1/1 | 4.92 | 4.65 |
| 1/1 | 1/1 | 7.21 | 6.99 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.18 | 7.05 |
| 1/1 | 1/1 | 7.06 | 6.93 |
| 1/1 | 1/1 | 8.08 | 8 |
| 0/1 | 1/1 | 3.69 | 5.62 |
| 0/1 | 1/1 | 3.44 | 5.41 |
| 1/1 | 1/1 | 4.39 | 6.41 |
| 1/1 | 1/1 | 3.58 | 5.73 |
| 0/1 | 1/1 | 3.37 | 6.28 |
| 1/1 | 1/1 | 5.27 | 3.92 |
| 1/1 | 1/1 | 5.15 | 4.27 |
| 1/1 | 1/1 | 3.86 | 3.11 |
| 1/1 | 1/1 | 5.43 | 4.95 |
| 1/1 | 0/1 | 4.28 | 3.15 |
| 1/1 | 1/1 | 5.75 | 5.21 |
| 1/1 | 1/1 | 4.12 | 3.82 |
| 1/1 | 1/1 | 6.18 | 5.06 |
| 1/1 | 1/1 | 3.57 | 3.19 |
| 1/1 | 1/1 | 4.97 | 4.73 |
| 1/1 | 0/1 | 6.64 | 5.87 |
| 1/1 | 1/1 | 5.3 | 4.71 |
| 1/1 | 1/1 | 9.38 | 8.79 |
| 1/1 | 1/1 | 8.92 | 8.38 |
| 1/1 | 1/1 | 10.22 | 9.8 |
| 1/1 | 1/1 | 8.65 | 8.24 |
| 1/1 | 1/1 | 8.36 | 7.98 |
| 1/1 | 1/1 | 9.53 | 9.29 |
| 1/1 | 1/1 | 6.48 | 6.27 |
| 1/1 | 1/1 | 8.96 | 8.8 |
| 0/1 | 1/1 | 7.01 | 6.88 |
| 1/1 | 1/1 | 8.32 | 8.24 |
| 1/1 | 1/1 | 6.81 | 6.74 |
| 1/1 | 1/1 | 9.16 | 9.11 |
| 1/1 | 1/1 | 9.15 | 9.1 |
| 1/1 | 1/1 | 7.41 | 7.38 |
| 1/1 | 1/1 | 10.27 | 10.27 |
| 1/1 | 1/1 | 7.1 | 7.12 |
| 1/1 | 1/1 | 8.73 | 8.76 |
| 1/1 | 1/1 | 8.72 | 8.75 |
| 1/1 | 1/1 | 9.74 | 9.78 |
| 1/1 | 1/1 | 9.38 | 9.45 |
| 1/1 | 1/1 | 8.27 | 8.34 |
| 1/1 | 1/1 | 9.33 | 9.41 |
| 1/1 | 1/1 | 7.88 | 7.98 |
| 1/1 | 1/1 | 11.44 | 11.54 |
| 0/1 | 1/1 | 7.21 | 7.31 |
| 1/1 | 1/1 | 8.39 | 8.5 |
| 1/1 | 1/1 | 5.34 | 5.46 |
| 1/1 | 1/1 | 8.75 | 8.87 |
| 0/1 | 1/1 | 8.03 | 8.16 |
| 1/1 | 1/1 | 9.96 | 10.09 |
| 1/1 | 1/1 | 8 | 8.13 |
| 1/1 | 1/1 | 9.07 | 9.2 |
| 1/1 | 1/1 | 7.24 | 7.38 |
| 1/1 | 0/1 | 5.2 | 2.5 |
| 1/1 | 0/1 | 5.19 | 2.93 |
| 1/1 | 0/1 | 6.14 | 3.95 |
| 1/1 | 1/1 | 6.72 | 4.84 |
| 1/1 | 1/1 | 4.87 | 3.02 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.55 | 6.82 |
| 0/1 | 1/1 | 5.96 | 6.41 |
| 0/1 | 1/1 | 3.57 | 4.11 |
| 1/1 | 1/1 | 6.65 | 7.3 |
| 1/1 | 1/1 | 6.83 | 7.49 |
| 0/1 | 1/1 | 2.84 | 4.99 |
| 1/1 | 1/1 | 4.05 | 3.1 |
| 1/1 | 1/1 | 3.44 | 5.48 |
| 1/1 | 0/1 | 4.22 | 2.82 |
| 1/1 | 0/1 | 4.46 | 3.4 |
| 1/1 | 1/1 | 6.74 | 6.2 |
| 0/1 | 1/1 | 2.78 | 4.86 |
| 1/1 | 1/1 | 5.93 | 5.14 |
| 1/1 | 1/1 | 8.29 | 8.14 |
| 0/1 | 1/1 | 3.2 | 3.29 |
| 0/1 | 1/1 | 1.98 | 4.71 |
| 1/1 | 0/1 | 9.49 | 8.51 |
| 1/1 | 1/1 | 9.65 | 8.7 |
| 1/1 | 1/1 | 7.39 | 6.62 |
| 1/1 | 1/1 | 7.23 | 6.51 |
| 1/1 | 1/1 | 7.82 | 7.38 |
| 1/1 | 1/1 | 8.72 | 8.4 |
| 1/1 | 1/1 | 6.12 | 5.86 |
| 1/1 | 1/1 | 7.3 | 7.07 |
| 1/1 | 1/1 | 6.46 | 6.25 |
| 1/1 | 1/1 | 7.11 | 6.99 |
| 1/1 | 1/1 | 10.9 | 10.82 |
| 1/1 | 1/1 | 7.67 | 6.94 |
| 1/1 | 1/1 | 9.37 | 8.82 |
| 1/1 | 1/1 | 4.06 | 3.78 |
| 1/1 | 1/1 | 6.35 | 6.53 |
| 0/1 | 1/1 | 5.59 | 7.86 |
| 0/1 | 1/1 | 5.55 | 7.85 |
| 1/1 | 1/1 | 6.32 | 4.85 |
| 1/1 | 1/1 | 6.32 | 5.22 |
| 1/1 | 1/1 | 3.32 | 4.84 |
| 1/1 | 1/1 | 4.89 | 6.59 |
| 0/1 | 1/1 | 2.07 | 4.12 |
| 1/1 | 1/1 | 8.92 | 6.91 |
| 1/1 | 1/1 | 8 | 6.42 |
| 1/1 | 1/1 | 8.14 | 7.02 |
| 1/1 | 1/1 | 7.41 | 6.95 |
| 1/1 | 1/1 | 4.39 | 7.49 |
| 1/1 | 1/1 | 5.8 | 4.58 |
| 1/1 | 1/1 | 8.49 | 8.17 |
| 1/1 | 1/1 | 3.59 | 5.64 |
| 1/1 | 1/1 | 10.49 | 8.39 |
| 0/1 | 1/1 | 2.42 | 3.34 |
| 0/1 | 1/1 | 7.68 | 8.85 |
| 1/1 | 0/1 | 6.97 | 5.28 |
| 1/1 | 1/1 | 5.11 | 6.44 |
| 1/1 | 1/1 | 3.66 | 5.56 |
| 1/1 | 1/1 | 6.12 | 3.55 |
| 1/1 | 1/1 | 6.28 | 4.25 |
| 1/1 | 0/1 | 3.83 | 2.05 |
| 1/1 | 1/1 | 7.09 | 7.47 |
| 1/1 | 1/1 | 3.45 | 3.84 |
| 1/1 | 0/1 | 6.83 | 4.98 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.52 | 7.69 |
| 1/1 | 0/1 | 6.29 | 4.82 |
| 1/1 | 0/1 | 5.04 | 4.18 |
| 1/1 | 1/1 | 7.87 | 7.07 |
| 1/1 | 1/1 | 3.58 | 2.94 |
| 1/1 | 0/1 | 6.29 | 4.82 |
| 1/1 | 0/1 | 5.04 | 4.18 |
| 1/1 | 1/1 | 7.87 | 7.07 |
| 1/1 | 1/1 | 3.58 | 2.94 |
| 1/1 | 0/1 | 3.51 | 2.17 |
| 1/1 | 1/1 | 4.56 | 3.3 |
| 1/1 | 0/1 | 3.3 | 2.75 |
| 1/1 | 1/1 | 6.38 | 5.87 |
| 1/1 | 1/1 | 4.57 | 4.14 |
| 1/1 | 1/1 | 4.39 | 3.78 |
| 1/1 | 1/1 | 3.04 | 2.73 |
| 1/1 | 1/1 | 8.15 | 8.08 |
| 0/1 | 1/1 | 6.92 | 7.03 |
| 0/1 | 1/1 | 5.29 | 5.43 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.24 | 2.93 |
| 1/1 | 1/1 | 2.84 | 2.58 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 1/1 | 1/1 | 6.15 | 6.01 |
| 1/1 | 1/1 | 5.16 | 5.04 |
| 1/1 | 1/1 | 5.11 | 5.08 |
| 0/1 | 1/1 | 5.29 | 5.26 |
| 1/1 | 1/1 | 6.75 | 6.75 |
| 1/1 | 1/1 | 3.97 | 3.98 |
| 0/1 | 1/1 | 2.41 | 2.41 |
| 1/1 | 1/1 | 4.14 | 4.22 |
| 0/1 | 1/1 | 2.7 | 2.83 |
| 0/1 | 1/1 | 3.59 | 3.86 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 7.1 | 5.92 |
| 1/1 | 0/1 | 4.2 | 3.16 |
| 1/1 | 1/1 | 5.68 | 4.69 |
| 1/1 | 1/1 | 6.83 | 6.2 |
| 1/1 | 1/1 | 9.84 | 9.34 |
| 0/1 | 1/1 | 4.09 | 3.7 |
| 1/1 | 1/1 | 7.95 | 7.67 |
| 1/1 | 1/1 | 4.43 | 4.15 |
| 1/1 | 1/1 | 3.62 | 5.95 |
| 1/1 | 0/1 | 6 | 4.71 |
| 1/1 | 0/1 | 5.02 | 3.86 |
| 1/1 | 1/1 | 8.93 | 8.14 |
| 1/1 | 1/1 | 5.8 | 3.53 |
| 1/1 | 1/1 | 5.96 | 4.51 |
| 1/1 | 1/1 | 8.03 | 8.07 |
| 0/1 | 1/1 | 6.54 | 6.69 |
| 1/1 | 1/1 | 5.98 | 6.33 |
| 1/1 | 1/1 | 4.84 | 5.38 |
| 1/1 | 1/1 | 5.43 | 6.16 |
| 1/1 | 1/1 | 5.84 | 4.1 |
| 1/1 | 1/1 | 4.4 | 6.15 |
| 1/1 | 1/1 | 4.99 | 4.42 |
| 1/1 | 1/1 | 6.33 | 6.32 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.6 | 6.7 |
| 1/1 | 1/1 | 7.92 | 5.56 |
| 1/1 | 1/1 | 8.28 | 6.26 |
| 1/1 | 1/1 | 10.02 | 8.01 |
| 1/1 | 1/1 | 8.77 | 6.82 |
| 1/1 | 1/1 | 8.78 | 7.17 |
| 1/1 | 1/1 | 6.57 | 7.19 |
| 1/1 | 1/1 | 7.69 | 8.61 |
| 0/1 | 1/1 | 4.36 | 5.33 |
| 0/1 | 1/1 | 7.33 | 8.5 |
| 0/1 | 1/1 | 2.87 | 4.62 |
| 1/1 | 1/1 | 8.39 | 7.48 |
| 1/1 | 0/1 | 5.17 | 4.49 |
| 1/1 | 1/1 | 6.34 | 5.9 |
| 1/1 | 1/1 | 9.02 | 8.75 |
| 1/1 | 1/1 | 11.58 | 11.32 |
| 1/1 | 1/1 | 2.89 | 4.89 |
| 1/1 | 0/1 | 5 | 3.54 |
| 1/1 | 1/1 | 3.93 | 5.74 |
| 0/1 | 1/1 | 3.29 | 5.44 |
| 1/1 | 0/1 | 4.68 | 3.1 |
| 1/1 | 1/1 | 9.89 | 8.7 |
| 1/1 | 1/1 | 7.6 | 6.73 |
| 1/1 | 1/1 | 6.94 | 6.22 |
| 1/1 | 1/1 | 4.84 | 6.2 |
| 1/1 | 1/1 | 6.5 | 7.93 |
| 0/1 | 1/1 | 3.74 | 6.19 |
| 1/1 | 1/1 | 9.76 | 9.06 |
| 1/1 | 1/1 | 8.41 | 7.88 |
| 1/1 | 1/1 | 10.58 | 10.27 |
| 1/1 | 1/1 | 5.41 | 5.25 |
| 1/1 | 1/1 | 7.79 | 7.84 |
| 1/1 | 1/1 | 6.2 | 6.35 |
| 1/1 | 0/1 | 8.06 | 6.48 |
| 0/1 | 1/1 | 2.79 | 4.55 |
| 1/1 | 1/1 | 8.93 | 7.85 |
| 1/1 | 1/1 | 8.57 | 7.73 |
| 1/1 | 1/1 | 7.67 | 6.92 |
| 1/1 | 1/1 | 7.66 | 6.97 |
| 1/1 | 1/1 | 7.56 | 7.01 |
| 1/1 | 1/1 | 7.8 | 7.27 |
| 1/1 | 0/1 | 7.05 | 6.55 |
| 1/1 | 1/1 | 6.92 | 6.45 |
| 1/1 | 1/1 | 8.8 | 8.39 |
| 1/1 | 1/1 | 7.77 | 7.38 |
| 1/1 | 1/1 | 7.71 | 7.33 |
| 1/1 | 1/1 | 2.73 | 2.36 |
| 1/1 | 1/1 | 8.07 | 7.75 |
| 1/1 | 1/1 | 5.99 | 5.69 |
| 1/1 | 1/1 | 7.07 | 6.81 |
| 1/1 | 1/1 | 8.35 | 8.09 |
| 1/1 | 1/1 | 7.42 | 7.19 |
| 1/1 | 0/1 | 4.28 | 2.61 |
| 1/1 | 1/1 | 5.9 | 4.93 |
| 1/1 | 0/1 | 4.61 | 3.45 |
| 1/1 | 1/1 | 4.88 | 4.2 |
| 1/1 | 0/1 | 4.59 | 3.68 |
| 1/1 | 1/1 | 8.48 | 7.74 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 11.47 | 10.95 |
| 1/1 | 0/1 | 8.13 | 7.67 |
| 1/1 | 1/1 | 5.54 | 5.1 |
| 1/1 | 1/1 | 8.49 | 8.06 |
| 1/1 | 1/1 | 9.67 | 9.4 |
| 1/1 | 1/1 | 6.1 | 5.86 |
| 0/1 | 1/1 | 6.41 | 6.2 |
| 1/1 | 1/1 | 7.44 | 7.3 |
| 1/1 | 1/1 | 7.65 | 7.54 |
| 0/1 | 1/1 | 4.97 | 4.88 |
| 1/1 | 1/1 | 8.4 | 8.32 |
| 1/1 | 1/1 | 8.2 | 8.12 |
| 1/1 | 1/1 | 5.36 | 7.37 |
| 0/1 | 1/1 | 4.15 | 6.31 |
| 1/1 | 1/1 | 4.62 | 2.93 |
| 1/1 | 1/1 | 5.19 | 4.07 |
| 1/1 | 1/1 | 6.37 | 5.12 |
| 1/1 | 1/1 | 6.73 | 6.33 |
| 0/1 | 1/1 | 5.75 | 7.42 |
| 0/1 | 1/1 | 4.19 | 6.57 |
| 1/1 | 0/1 | 3.84 | 2.57 |
| 1/1 | 1/1 | 5.49 | 4.98 |
| 1/1 | 1/1 | 5.89 | 5.41 |
| 1/1 | 1/1 | 3.54 | 6.12 |
| 0/1 | 1/1 | 2.56 | 5.26 |
| 0/1 | 1/1 | 3.03 | 6.07 |
| 1/1 | 1/1 | 9.76 | 8.53 |
| 1/1 | 1/1 | 6.69 | 5.87 |
| 1/1 | 1/1 | 5.87 | 5.47 |
| 1/1 | 1/1 | 4.93 | 3.31 |
| 1/1 | 0/1 | 4.37 | 2.96 |
| 1/1 | 1/1 | 4.85 | 3.81 |
| 1/1 | 1/1 | 5.57 | 4.59 |
| 1/1 | 1/1 | 3.98 | 3.07 |
| 1/1 | 0/1 | 2.81 | 2.03 |
| 1/1 | 1/1 | 5.46 | 6.76 |
| 1/1 | 1/1 | 3.57 | 4.88 |
| 1/1 | 1/1 | 3.75 | 5.17 |
| 0/1 | 1/1 | 2.03 | 3.82 |
| 0/1 | 1/1 | 2.18 | 4.01 |
| 1/1 | 1/1 | 4.32 | 2.98 |
| 1/1 | 1/1 | 3.73 | 3.02 |
| 1/1 | 1/1 | 6.12 | 5.58 |
| 0/1 | 1/1 | 3.85 | 5.49 |
| 1/1 | 1/1 | 4.84 | 3.28 |
| 1/1 | 1/1 | 3.23 | 4.97 |
| 0/1 | 1/1 | 3.12 | 5.03 |
| 1/1 | 0/1 | 4.06 | 2.55 |
| 1/1 | 1/1 | 7.25 | 6.27 |
| 1/1 | 1/1 | 9.3 | 8.36 |
| 1/1 | 1/1 | 5.4 | 3.29 |
| 1/1 | 1/1 | 6.01 | 4.52 |
| 1/1 | 1/1 | 4.64 | 3.26 |
| 1/1 | 0/1 | 5.8 | 4.43 |
| 1/1 | 0/1 | 4.45 | 3.16 |
| 0/1 | 1/1 | 1.91 | 3.8 |
| 1/1 | 1/1 | 5.84 | 4.18 |
| 1/1 | 1/1 | 5.87 | 5.02 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 5.85 | 3.65 |
| 1/1 | 1/1 | 5.42 | 3.9 |
| 1/1 | 1/1 | 7.01 | 5.61 |
| 1/1 | 1/1 | 8.47 | 9.22 |
| 1/1 | 1/1 | 6.01 | 6.86 |
| 1/1 | 1/1 | 5.99 | 4.55 |
| 1/1 | 1/1 | 3.18 | 2.48 |
| 1/1 | 1/1 | 5.46 | 6.9 |
| 1/1 | 1/1 | 5.2 | 6.65 |
| 1/1 | 1/1 | 6.59 | 8.11 |
| 1/1 | 1/1 | 5.39 | 7.03 |
| 1/1 | 0/1 | 5.23 | 2.81 |
| 1/1 | 1/1 | 5.59 | 3.92 |
| 1/1 | 1/1 | 3.47 | 1.93 |
| 0/1 | 1/1 | 4.06 | 4.59 |
| 1/1 | 1/1 | 6.77 | 4.71 |
| 1/1 | 0/1 | 6.02 | 4.57 |
| 1/1 | 0/1 | 4.5 | 3.29 |
| 1/1 | 1/1 | 9.39 | 3.73 |
| 1/1 | 1/1 | 9.99 | 4.54 |
| 1/1 | 1/1 | 11.22 | 6.35 |
| 1/1 | 1/1 | 8.92 | 6.71 |
| 1/1 | 1/1 | 3.12 | 2.07 |
| 1/1 | 1/1 | 7.88 | 7.33 |
| 1/1 | 1/1 | 5.29 | 3.94 |
| 1/1 | 0/1 | 4.05 | 3.23 |
| 1/1 | 0/1 | 5.4 | 2.94 |
| 1/1 | 1/1 | 6.06 | 4.32 |
| 1/1 | 1/1 | 6.2 | 5.37 |
| 1/1 | 1/1 | 4.72 | 4.21 |
| 1/1 | 1/1 | 4.41 | 3.98 |
| 1/1 | 1/1 | 6.95 | 6.84 |
| 1/1 | 1/1 | 3.98 | 4.03 |
| 1/1 | 1/1 | 5.13 | 5.18 |
| 1/1 | 1/1 | 4.19 | 6.47 |
| 1/1 | 1/1 | 7.41 | 5.86 |
| 1/1 | 1/1 | 10.59 | 9.41 |
| 1/1 | 0/1 | 7.44 | 6.2 |
| 1/1 | 1/1 | 9.82 | 9.27 |
| 1/1 | 1/1 | 9.15 | 8.79 |
| 1/1 | 0/1 | 5.29 | 3.43 |
| 1/1 | 1/1 | 5.86 | 4.01 |
| 1/1 | 1/1 | 4.66 | 5.7 |
| 1/1 | 1/1 | 5.61 | 6.69 |
| 1/1 | 1/1 | 8.15 | 5.74 |
| 1/1 | 1/1 | 8.86 | 6.81 |
| 1/1 | 1/1 | 2.34 | 2.88 |
| 1/1 | 1/1 | 3.85 | 5.06 |
| 1/1 | 1/1 | 6.63 | 4.91 |
| 1/1 | 0/1 | 4.2 | 2.77 |
| 1/1 | 0/1 | 4.12 | 2.73 |
| 1/1 | 1/1 | 5.08 | 3.9 |
| 1/1 | 0/1 | 3.44 | 2.39 |
| 1/1 | 1/1 | 5.91 | 4.9 |
| 1/1 | 1/1 | 4.28 | 3.33 |
| 1/1 | 1/1 | 6.18 | 5.23 |
| 1/1 | 1/1 | 8.9 | 7.98 |
| 0/1 | 1/1 | 2.58 | 4.9 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 9.22 | 4.15 |
| 1/1 | 0/1 | 6.5 | 2.24 |
| 1/1 | 1/1 | 8.05 | 5.88 |
| 1/1 | 0/1 | 3.63 | 1.84 |
| 1/1 | 1/1 | 9.45 | 7.87 |
| 1/1 | 1/1 | 6.15 | 5.11 |
| 1/1 | 1/1 | 6.22 | 6.13 |
| 1/1 | 1/1 | 10.72 | 10.85 |
| 1/1 | 1/1 | 5.09 | 5.64 |
| 1/1 | 1/1 | 6.55 | 4.15 |
| 1/1 | 1/1 | 5.69 | 3.71 |
| 1/1 | 1/1 | 7.24 | 5.28 |
| 1/1 | 1/1 | 6.67 | 4.77 |
| 1/1 | 0/1 | 5.79 | 4.24 |
| 1/1 | 1/1 | 4.58 | 5.09 |
| 1/1 | 1/1 | 3.22 | 3.72 |
| 1/1 | 1/1 | 5.16 | 5.66 |
| 0/1 | 1/1 | 3.36 | 3.96 |
| 1/1 | 1/1 | 3.93 | 4.53 |
| 1/1 | 1/1 | 3.58 | 4.31 |
| 1/1 | 1/1 | 3.56 | 4.34 |
| 0/1 | 1/1 | 4.7 | 5.53 |
| 0/1 | 1/1 | 2.64 | 3.58 |
| 0/1 | 1/1 | 3.58 | 4.6 |
| 0/1 | 1/1 | 4.32 | 5.64 |
| 1/1 | 1/1 | 4.8 | 4.33 |
| 1/1 | 1/1 | 12.79 | 12.57 |
| 1/1 | 1/1 | 9.69 | 9.62 |
| 0/1 | 1/1 | 2.72 | 2.76 |
| 0/1 | 1/1 | 2.24 | 2.29 |
| 1/1 | 1/1 | 10.78 | 10.96 |
| 1/1 | 1/1 | 5.93 | 6.27 |
| 1/1 | 1/1 | 8.14 | 8.48 |
| 1/1 | 1/1 | 4.34 | 4.72 |
| 1/1 | 1/1 | 4.44 | 6.93 |
| 1/1 | 1/1 | 5.07 | 7.62 |
| 0/1 | 1/1 | 2.54 | 5.19 |
| 1/1 | 1/1 | 3.95 | 6.69 |
| 1/1 | 1/1 | 7.22 | 4.51 |
| 1/1 | 1/1 | 7.49 | 5.29 |
| 1/1 | 1/1 | 7.35 | 5.17 |
| 1/1 | 1/1 | 8.2 | 8.4 |
| 1/1 | 1/1 | 5.27 | 5.47 |
| 1/1 | 1/1 | 7.04 | 7.31 |
| 1/1 | 1/1 | 7.39 | 7.65 |
| 1/1 | 1/1 | 6.77 | 7.09 |
| 1/1 | 1/1 | 7.24 | 7.57 |
| 0/1 | 1/1 | 4.63 | 4.98 |
| 1/1 | 1/1 | 7.47 | 7.83 |
| 0/1 | 1/1 | 3.83 | 4.3 |
| 1/1 | 1/1 | 5.81 | 4.27 |
| 1/1 | 1/1 | 5.02 | 4.19 |
| 1/1 | 1/1 | 6.79 | 6.12 |
| 1/1 | 1/1 | 5.23 | 4.2 |
| 1/1 | 1/1 | 3.64 | 2.97 |
| 1/1 | 1/1 | 3.99 | 3.52 |
| 1/1 | 1/1 | 4.37 | 4.13 |
| 1/1 | 1/1 | 5.84 | 5.69 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 4.89 | 3.66 |
| 1/1 | 1/1 | 4.39 | 3.17 |
| 1/1 | 1/1 | 4.22 | 3.45 |
| 1/1 | 1/1 | 5.5 | 4.99 |
| 1/1 | 1/1 | 6.42 | 6.01 |
| 0/1 | 1/1 | 3.29 | 5.21 |
| 1/1 | 1/1 | 6.09 | 5.18 |
| 1/1 | 1/1 | 3.78 | 3.64 |
| 1/1 | 1/1 | 11.32 | 9.71 |
| 0/1 | 1/1 | 3.63 | 5.27 |
| 0/1 | 1/1 | 4.01 | 5.85 |
| 1/1 | 1/1 | 6.59 | 5.06 |
| 1/1 | 1/1 | 4.93 | 6.37 |
| 1/1 | 1/1 | 2.55 | 4.28 |
| 1/1 | 1/1 | 5.1 | 3.01 |
| 1/1 | 1/1 | 4.1 | 4.88 |
| 1/1 | 1/1 | 6.8 | 5 |
| 1/1 | 1/1 | 5.78 | 4.12 |
| 1/1 | 0/1 | 5.44 | 4.19 |
| 1/1 | 1/1 | 7.71 | 6.57 |
| 1/1 | 1/1 | 6.94 | 5.86 |
| 0/1 | 1/1 | 3.25 | 4.77 |
| 1/1 | 1/1 | 6.57 | 4.37 |
| 1/1 | 1/1 | 6.11 | 6.82 |
| 1/1 | 1/1 | 5.4 | 6.25 |
| 1/1 | 1/1 | 4.92 | 6.07 |
| 1/1 | 1/1 | 3.43 | 4.91 |
| 1/1 | 1/1 | 7.95 | 7.33 |
| 1/1 | 1/1 | 6.22 | 5.62 |
| 1/1 | 1/1 | 5.5 | 5.09 |
| 1/1 | 1/1 | 7.58 | 7.23 |
| 1/1 | 1/1 | 6.3 | 6.08 |
| 0/1 | 1/1 | 6.23 | 6.13 |
| 1/1 | 1/1 | 6.78 | 6.7 |
| 1/1 | 1/1 | 2.65 | 2.59 |
| 1/1 | 1/1 | 5.6 | 5.55 |
| 1/1 | 1/1 | 9.02 | 9.04 |
| 0/1 | 1/1 | 5.02 | 5.07 |
| 1/1 | 1/1 | 10.83 | 10.9 |
| 0/1 | 1/1 | 5.66 | 5.86 |
| 1/1 | 1/1 | 5.48 | 5.68 |
| 1/1 | 1/1 | 7.1 | 7.33 |
| 0/1 | 1/1 | 3.84 | 6.09 |
| 1/1 | 1/1 | 5.22 | 7.63 |
| 0/1 | 1/1 | 3.85 | 6.52 |
| 0/1 | 1/1 | 2.43 | 5.23 |
| 0/1 | 1/1 | 3.48 | 6.36 |
| 0/1 | 1/1 | 4.7 | 7.59 |
| 1/1 | 1/1 | 4.88 | 7.84 |
| 0/1 | 1/1 | 4.37 | 7.37 |
| 0/1 | 1/1 | 3.57 | 6.87 |
| 0/1 | 1/1 | 4.4 | 7.74 |
| 0/1 | 1/1 | 2.96 | 6.62 |
| 0/1 | 1/1 | 4.23 | 8.89 |
| 0/1 | 1/1 | 1.81 | 6.61 |
| 1/1 | 1/1 | 5.12 | 4.29 |
| 1/1 | 1/1 | 5.33 | 5.19 |
| 1/1 | 1/1 | 6.54 | 6.49 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.67 | 7.63 |
| 0/1 | 1/1 | 6 | 8.32 |
| 1/1 | 1/1 | 5.44 | 7.79 |
| 1/1 | 1/1 | 4.55 | 7.8 |
| 1/1 | 0/1 | 6.97 | 5.47 |
| 1/1 | 0/1 | 6.34 | 5.38 |
| 1/1 | 1/1 | 7.11 | 6.17 |
| 1/1 | 1/1 | 7.68 | 6.97 |
| 1/1 | 1/1 | 6.06 | 5.35 |
| 1/1 | 1/1 | 7.08 | 8.46 |
| 1/1 | 1/1 | 6.7 | 8.08 |
| 1/1 | 1/1 | 6.86 | 8.27 |
| 0/1 | 1/1 | 5.77 | 7.39 |
| 1/1 | 1/1 | 6.45 | 8.1 |
| 1/1 | 0/1 | 4.43 | 3.25 |
| 1/1 | 1/1 | 6.27 | 5.94 |
| 1/1 | 1/1 | 6.76 | 5.27 |
| 1/1 | 0/1 | 3.15 | 2.26 |
| 1/1 | 1/1 | 4.25 | 3.52 |
| 1/1 | 1/1 | 6.76 | 6.04 |
| 1/1 | 1/1 | 4.22 | 5.63 |
| 1/1 | 1/1 | 3.39 | 5.48 |
| 1/1 | 1/1 | 6.15 | 4.76 |
| 1/1 | 1/1 | 6.61 | 5.33 |
| 1/1 | 1/1 | 11.84 | 10.98 |
| 1/1 | 1/1 | 4.95 | 4.12 |
| 1/1 | 0/1 | 4.22 | 3.4 |
| 1/1 | 1/1 | 4.96 | 4.19 |
| 1/1 | 0/1 | 3.35 | 2.62 |
| 1/1 | 1/1 | 6.12 | 5.53 |
| 1/1 | 1/1 | 3.14 | 2.59 |
| 1/1 | 0/1 | 4.96 | 2.69 |
| 1/1 | 1/1 | 5.98 | 6.74 |
| 0/1 | 1/1 | 5.87 | 7.58 |
| 1/1 | 1/1 | 6.61 | 4.64 |
| 1/1 | 1/1 | 3.74 | 4.67 |
| 1/1 | 1/1 | 4.14 | 5.28 |
| 0/1 | 1/1 | 2.64 | 4.11 |
| 1/1 | 0/1 | 9.49 | 2.92 |
| 1/1 | 1/1 | 9.99 | 3.45 |
| 1/1 | 0/1 | 8.76 | 2.28 |
| 1/1 | 1/1 | 10.15 | 3.77 |
| 1/1 | 0/1 | 8.94 | 2.57 |
| 1/1 | 0/1 | 10.11 | 3.78 |
| 1/1 | 1/1 | 9.54 | 3.27 |
| 1/1 | 1/1 | 10 | 3.77 |
| 1/1 | 1/1 | 10.19 | 3.99 |
| 1/1 | 0/1 | 9.04 | 2.88 |
| 1/1 | 1/1 | 9.62 | 3.48 |
| 1/1 | 0/1 | 8.84 | 2.72 |
| 1/1 | 0/1 | 8.64 | 2.6 |
| 1/1 | 0/1 | 7.85 | 1.83 |
| 1/1 | 0/1 | 8.29 | 2.29 |
| 1/1 | 0/1 | 8.51 | 2.51 |
| 1/1 | 0/1 | 8.37 | 2.39 |
| 1/1 | 0/1 | 9.02 | 3.05 |
| 1/1 | 1/1 | 9.9 | 4.03 |
| 1/1 | 1/1 | 11.43 | 5.56 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 9.66 | 3.81 |
| 1/1 | 1/1 | 10.46 | 4.65 |
| 1/1 | 1/1 | 11.08 | 5.31 |
| 1/1 | 0/1 | 9.05 | 3.28 |
| 1/1 | 0/1 | 9.15 | 3.4 |
| 1/1 | 0/1 | 8.96 | 5.26 |
| 1/1 | 0/1 | 7.85 | 4.16 |
| 1/1 | 0/1 | 6.14 | 2.45 |
| 1/1 | 0/1 | 8.47 | 4.81 |
| 1/1 | 1/1 | 7.27 | 3.63 |
| 1/1 | 0/1 | 6.35 | 2.75 |
| 1/1 | 0/1 | 7.08 | 3.5 |
| 1/1 | 0/1 | 6.62 | 3.1 |
| 1/1 | 1/1 | 6.66 | 3.24 |
| 1/1 | 0/1 | 5.4 | 2.05 |
| 1/1 | 1/1 | 11.58 | 8.24 |
| 1/1 | 0/1 | 7.76 | 4.45 |
| 1/1 | 0/1 | 7.07 | 3.79 |
| 1/1 | 0/1 | 6.84 | 3.57 |
| 1/1 | 0/1 | 5.4 | 2.23 |
| 1/1 | 1/1 | 8.25 | 5.17 |
| 1/1 | 1/1 | 7.1 | 4.05 |
| 1/1 | 1/1 | 8.8 | 5.77 |
| 1/1 | 1/1 | 8.11 | 5.13 |
| 1/1 | 0/1 | 5.46 | 2.48 |
| 1/1 | 0/1 | 5.14 | 2.18 |
| 1/1 | 1/1 | 8.02 | 5.14 |
| 1/1 | 0/1 | 4.45 | 1.68 |
| 1/1 | 0/1 | 5.73 | 2.96 |
| 1/1 | 1/1 | 6.39 | 3.65 |
| 1/1 | 1/1 | 6.28 | 3.54 |
| 1/1 | 1/1 | 6.96 | 4.29 |
| 1/1 | 0/1 | 4.91 | 2.33 |
| 1/1 | 1/1 | 6.29 | 3.72 |
| 1/1 | 1/1 | 9.13 | 6.56 |
| 1/1 | 0/1 | 7.78 | 5.28 |
| 1/1 | 0/1 | 4.54 | 2.13 |
| 1/1 | 1/1 | 9.56 | 7.37 |
| 1/1 | 1/1 | 8.56 | 6.4 |
| 1/1 | 1/1 | 7.95 | 5.83 |
| 1/1 | 1/1 | 5.03 | 3.01 |
| 1/1 | 0/1 | 4.03 | 2.03 |
| 1/1 | 1/1 | 9.44 | 7.76 |
| 1/1 | 0/1 | 3.34 | 1.72 |
| 1/1 | 1/1 | 8.34 | 6.73 |
| 1/1 | 1/1 | 7.96 | 6.6 |
| 1/1 | 1/1 | 7.16 | 5.86 |
| 1/1 | 0/1 | 3.89 | 2.63 |
| 1/1 | 0/1 | 4.54 | 3.58 |
| 1/1 | 1/1 | 7.54 | 6.84 |
| 1/1 | 1/1 | 7.18 | 6.55 |
| 1/1 | 1/1 | 3.1 | 2.56 |
| 0/1 | 1/1 | 3.35 | 4.01 |
| 1/1 | 0/1 | 8.08 | 2.78 |
| 1/1 | 0/1 | 7.67 | 2.56 |
| 1/1 | 1/1 | 8.95 | 6.7 |
| 1/1 | 1/1 | 8.06 | 6.09 |
| 1/1 | 0/1 | 6.68 | 5 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 3.55 | 2.18 |
| 1/1 | 1/1 | 8.52 | 7.72 |
| 1/1 | 1/1 | 5.41 | 4.77 |
| 1/1 | 0/1 | 3.19 | 2.67 |
| 1/1 | 1/1 | 6.15 | 5.65 |
| 1/1 | 1/1 | 3.48 | 3.3 |
| 1/1 | 1/1 | 4.03 | 4.1 |
| 1/1 | 1/1 | 3.85 | 4.18 |
| 1/1 | 0/1 | 4.64 | 3.44 |
| 1/1 | 0/1 | 2.87 | 2.28 |
| 1/1 | 1/1 | 5.56 | 4.97 |
| 1/1 | 1/1 | 6.78 | 6.2 |
| 1/1 | 0/1 | 3.2 | 2.68 |
| 1/1 | 1/1 | 5.77 | 5.26 |
| 1/1 | 1/1 | 11.18 | 10.7 |
| 1/1 | 1/1 | 7.06 | 6.72 |
| 1/1 | 1/1 | 9.33 | 8.28 |
| 1/1 | 1/1 | 6.56 | 5.73 |
| 0/1 | 1/1 | 5.13 | 4.76 |
| 0/1 | 1/1 | 5.42 | 5.12 |
| 1/1 | 1/1 | 4.5 | 4.23 |
| 1/1 | 1/1 | 7.17 | 6.93 |
| 1/1 | 1/1 | 5.36 | 5.14 |
| 0/1 | 1/1 | 2.65 | 2.43 |
| 1/1 | 1/1 | 5.47 | 4.14 |
| 1/1 | 1/1 | 7.45 | 6.76 |
| 1/1 | 1/1 | 6.79 | 6.18 |
| 1/1 | 1/1 | 8.63 | 8.02 |
| 1/1 | 1/1 | 7.15 | 4.42 |
| 1/1 | 1/1 | 7.3 | 4.82 |
| 1/1 | 1/1 | 6.71 | 4.77 |
| 0/1 | 1/1 | 2.78 | 3.04 |
| 1/1 | 1/1 | 4.04 | 4.52 |
| 1/1 | 1/1 | 6.86 | 7.39 |
| 1/1 | 1/1 | 5.74 | 6.55 |
| 1/1 | 1/1 | 8.51 | 8.71 |
| 1/1 | 1/1 | 8.98 | 9.34 |
| 1/1 | 1/1 | 5.55 | 8.82 |
| 1/1 | 1/1 | 7.14 | 6.36 |
| 1/1 | 1/1 | 4.52 | 3.91 |
| 1/1 | 1/1 | 5.14 | 4.63 |
| 0/1 | 1/1 | 4.94 | 4.44 |
| 1/1 | 1/1 | 7.42 | 7.37 |
| 1/1 | 1/1 | 3.45 | 3.45 |
| 1/1 | 1/1 | 5.98 | 8.07 |
| 1/1 | 1/1 | 3.02 | 5.35 |
| 1/1 | 1/1 | 9.54 | 7.85 |
| 1/1 | 1/1 | 8.92 | 7.95 |
| 1/1 | 1/1 | 7.23 | 4.02 |
| 1/1 | 0/1 | 5.98 | 3.26 |
| 1/1 | 0/1 | 5.18 | 2.49 |
| 1/1 | 1/1 | 6.83 | 4.24 |
| 1/1 | 1/1 | 7 | 4.48 |
| 1/1 | 1/1 | 5.77 | 3.26 |
| 1/1 | 0/1 | 5.38 | 2.88 |
| 1/1 | 1/1 | 6.75 | 4.38 |
| 1/1 | 1/1 | 7.62 | 7.31 |
| 1/1 | 1/1 | 7.07 | 6.77 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.29 | 3.09 |
| 1/1 | 1/1 | 7.58 | 7.5 |
| 0/1 | 1/1 | 5.41 | 5.51 |
| 1/1 | 1/1 | 3.15 | 3.31 |
| 0/1 | 1/1 | 2.23 | 2.74 |
| 1/1 | 1/1 | 6.43 | 5.7 |
| 1/1 | 0/1 | 2.48 | 1.95 |
| 1/1 | 1/1 | 5.48 | 5.09 |
| 0/1 | 1/1 | 3.19 | 2.91 |
| 1/1 | 1/1 | 8.05 | 7.79 |
| 1/1 | 1/1 | 7.29 | 7.19 |
| 1/1 | 1/1 | 8.31 | 8.22 |
| 1/1 | 1/1 | 3.46 | 3.46 |
| 1/1 | 1/1 | 7.26 | 7.38 |
| 0/1 | 1/1 | 4.22 | 4.34 |
| 1/1 | 0/1 | 3.2 | 2.44 |
| 1/1 | 0/1 | 2.64 | 2.17 |
| 1/1 | 1/1 | 4.69 | 4.51 |
| 1/1 | 1/1 | 7.6 | 7.58 |
| 1/1 | 1/1 | 6.91 | 6.91 |
| 1/1 | 1/1 | 3.95 | 6.25 |
| 1/1 | 0/1 | 5.01 | 3.47 |
| 1/1 | 1/1 | 5.84 | 4.67 |
| 1/1 | 1/1 | 4.55 | 3.5 |
| 1/1 | 1/1 | 4.67 | 3.85 |
| 1/1 | 1/1 | 4.46 | 3.71 |
| 0/1 | 1/1 | 3.01 | 4.6 |
| 1/1 | 1/1 | 3.65 | 5.43 |
| 1/1 | 1/1 | 4.05 | 2.97 |
| 1/1 | 1/1 | 7.71 | 7.14 |
| 1/1 | 1/1 | 7.03 | 6.56 |
| 0/1 | 1/1 | 6.83 | 6.44 |
| 1/1 | 1/1 | 7.61 | 7.31 |
| 1/1 | 0/1 | 2.54 | 2.27 |
| 1/1 | 1/1 | 4.28 | 4.02 |
| 0/1 | 1/1 | 2.64 | 4.52 |
| 0/1 | 1/1 | 2.29 | 4.21 |
| 1/1 | 1/1 | 6.88 | 5.28 |
| 1/1 | 1/1 | 4.53 | 3.61 |
| 1/1 | 1/1 | 8 | 5.2 |
| 1/1 | 1/1 | 6.09 | 3.47 |
| 1/1 | 0/1 | 6.72 | 4.14 |
| 1/1 | 1/1 | 12.2 | 12.27 |
| 1/1 | 1/1 | 11.43 | 11.54 |
| 0/1 | 1/1 | 2.74 | 2.86 |
| 1/1 | 1/1 | 9.02 | 9.18 |
| 1/1 | 1/1 | 4.68 | 4.86 |
| 1/1 | 1/1 | 4.23 | 4.55 |
| 0/1 | 1/1 | 2.59 | 3.12 |
| 1/1 | 1/1 | 5.19 | 3.77 |
| 1/1 | 1/1 | 3.9 | 2.64 |
| 1/1 | 1/1 | 5.52 | 4.81 |
| 1/1 | 1/1 | 7.47 | 6.81 |
| 1/1 | 1/1 | 4.2 | 3.61 |
| 1/1 | 0/1 | 3.5 | 2.03 |
| 1/1 | 1/1 | 3.24 | 4.9 |
| 1/1 | 1/1 | 6.09 | 4.98 |
| 1/1 | 1/1 | 6.51 | 5.64 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.42 | 9.6 |
| 1/1 | 1/1 | 6.78 | 6.05 |
| 1/1 | 1/1 | 9.28 | 8.58 |
| 1/1 | 0/1 | 5.52 | 4.9 |
| 1/1 | 1/1 | 5.74 | 5.2 |
| 1/1 | 1/1 | 6.97 | 6.44 |
| 1/1 | 1/1 | 7.28 | 6.77 |
| 1/1 | 1/1 | 5.6 | 5.18 |
| 1/1 | 1/1 | 9 | 8.6 |
| 1/1 | 1/1 | 9.07 | 8.72 |
| 1/1 | 1/1 | 7.27 | 6.93 |
| 1/1 | 1/1 | 7.63 | 7.32 |
| 1/1 | 1/1 | 6.46 | 6.15 |
| 1/1 | 1/1 | 9.2 | 8.9 |
| 1/1 | 1/1 | 6.67 | 6.37 |
| 1/1 | 1/1 | 5.22 | 4.95 |
| 1/1 | 1/1 | 6.99 | 6.72 |
| 1/1 | 1/1 | 5.9 | 5.65 |
| 1/1 | 0/1 | 3.73 | 2.14 |
| 1/1 | 0/1 | 4.82 | 3.24 |
| 1/1 | 1/1 | 7.76 | 6.83 |
| 1/1 | 1/1 | 8.6 | 7.86 |
| 1/1 | 1/1 | 3.88 | 5.29 |
| 0/1 | 1/1 | 3.51 | 5.01 |
| 1/1 | 0/1 | 4.68 | 3.19 |
| 1/1 | 1/1 | 6.6 | 5.25 |
| 1/1 | 0/1 | 5.46 | 4.32 |
| 1/1 | 1/1 | 7.02 | 6.06 |
| 1/1 | 1/1 | 7.61 | 6.97 |
| 1/1 | 1/1 | 6.64 | 8.05 |
| 0/1 | 1/1 | 2.51 | 4.01 |
| 1/1 | 1/1 | 3.6 | 5.7 |
| 1/1 | 1/1 | 4.37 | 6.64 |
| 1/1 | 1/1 | 3.16 | 5.73 |
| 1/1 | 1/1 | 9.65 | 8.1 |
| 1/1 | 1/1 | 10.54 | 9.56 |
| 1/1 | 1/1 | 8.72 | 7.81 |
| 1/1 | 1/1 | 7.75 | 6.99 |
| 1/1 | 1/1 | 5.46 | 4.2 |
| 1/1 | 0/1 | 3.43 | 2.44 |
| 1/1 | 0/1 | 7.5 | 5.05 |
| 1/1 | 1/1 | 8.56 | 6.55 |
| 1/1 | 1/1 | 5.85 | 6.36 |
| 1/1 | 1/1 | 6.64 | 7.47 |
| 1/1 | 1/1 | 9.09 | 7.18 |
| 1/1 | 1/1 | 7.3 | 5.84 |
| 1/1 | 1/1 | 8.69 | 7.62 |
| 1/1 | 1/1 | 5.19 | 4.19 |
| 1/1 | 1/1 | 8.41 | 7.76 |
| 1/1 | 1/1 | 7.43 | 7.19 |
| 1/1 | 1/1 | 9.77 | 11.96 |
| 1/1 | 1/1 | 6.89 | 5.49 |
| 1/1 | 0/1 | 5.96 | 5.11 |
| 1/1 | 0/1 | 5.03 | 4.35 |
| 1/1 | 1/1 | 4.86 | 3.82 |
| 1/1 | 1/1 | 6.47 | 6.06 |
| 1/1 | 1/1 | 3.93 | 3.62 |
| 1/1 | 1/1 | 6.3 | 4.09 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 5.86 | 4.1 |
| 0/1 | 1/1 | 3.54 | 4.59 |
| 1/1 | 1/1 | 3.51 | 3.11 |
| 1/1 | 1/1 | 4.06 | 3.69 |
| 1/1 | 1/1 | 7.08 | 6.96 |
| 0/1 | 1/1 | 3.39 | 3.37 |
| 1/1 | 1/1 | 5.45 | 5.47 |
| 1/1 | 1/1 | 3.33 | 3.39 |
| 0/1 | 1/1 | 3.56 | 3.61 |
| 0/1 | 1/1 | 3.35 | 3.4 |
| 1/1 | 1/1 | 3.77 | 3.83 |
| 1/1 | 1/1 | 8.01 | 8.07 |
| 0/1 | 1/1 | 5.24 | 5.34 |
| 1/1 | 1/1 | 4.87 | 5.02 |
| 1/1 | 1/1 | 5.38 | 5.56 |
| 0/1 | 1/1 | 2.17 | 2.36 |
| 1/1 | 1/1 | 11.54 | 11.75 |
| 1/1 | 1/1 | 8.23 | 8.45 |
| 1/1 | 1/1 | 4.66 | 5.01 |
| 0/1 | 1/1 | 4.27 | 4.65 |
| 1/1 | 1/1 | 6.31 | 6.71 |
| 1/1 | 1/1 | 7.57 | 8.01 |
| 0/1 | 1/1 | 3.23 | 3.67 |
| 1/1 | 1/1 | 4 | 6.5 |
| 0/1 | 1/1 | 3.33 | 6.03 |
| 1/1 | 1/1 | 3.22 | 6 |
| 0/1 | 1/1 | 2.14 | 7.14 |
| 1/1 | 0/1 | 5.85 | 3.79 |
| 1/1 | 1/1 | 4.73 | 5.6 |
| 1/1 | 1/1 | 8.19 | 4.14 |
| 1/1 | 1/1 | 7.49 | 3.85 |
| 1/1 | 1/1 | 9.27 | 5.82 |
| 1/1 | 1/1 | 8.75 | 7.86 |
| 1/1 | 1/1 | 4.74 | 3.9 |
| 1/1 | 1/1 | 9.05 | 8.21 |
| 1/1 | 1/1 | 4.69 | 4.18 |
| 1/1 | 1/1 | 6.59 | 6.28 |
| 1/1 | 1/1 | 5.15 | 5.01 |
| 1/1 | 1/1 | 9.93 | 10.07 |
| 1/1 | 1/1 | 12.52 | 12.26 |
| 1/1 | 1/1 | 4.91 | 4.73 |
| 0/1 | 1/1 | 3.11 | 3.54 |
| 1/1 | 1/1 | 5.68 | 4.73 |
| 1/1 | 1/1 | 4.47 | 3.85 |
| 1/1 | 1/1 | 2.08 | 1.6 |
| 1/1 | 1/1 | 4.92 | 4.48 |
| 1/1 | 1/1 | 6.28 | 5.84 |
| 1/1 | 1/1 | 3.81 | 3.39 |
| 1/1 | 1/1 | 6.99 | 6.61 |
| 1/1 | 1/1 | 7.1 | 6.74 |
| 1/1 | 1/1 | 5.14 | 4.79 |
| 1/1 | 1/1 | 7.61 | 7.26 |
| 1/1 | 1/1 | 11.87 | 11.58 |
| 1/1 | 1/1 | 6.28 | 6.03 |
| 1/1 | 1/1 | 7.24 | 7.04 |
| 0/1 | 1/1 | 3.84 | 3.64 |
| 1/1 | 1/1 | 5.2 | 5.02 |
| 0/1 | 1/1 | 3.57 | 3.39 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 5.97 | 5.79 |
| 1/1 | 1/1 | 8.14 | 7.97 |
| 1/1 | 1/1 | 7.98 | 7.84 |
| 1/1 | 1/1 | 5.79 | 5.03 |
| 1/1 | 1/1 | 3.11 | 2.8 |
| 1/1 | 0/1 | 5.52 | 3.89 |
| 1/1 | 0/1 | 3.91 | 3.12 |
| 0/1 | 1/1 | 2.26 | 3.53 |
| 1/1 | 0/1 | 4.31 | 2.56 |
| 1/1 | 1/1 | 5.22 | 3.93 |
| 1/1 | 1/1 | 6.36 | 5.4 |
| 1/1 | 1/1 | 6.93 | 5.51 |
| 1/1 | 1/1 | 8.86 | 7.79 |
| 1/1 | 1/1 | 6.29 | 7.74 |
| 1/1 | 1/1 | 5.97 | 7.54 |
| 1/1 | 1/1 | 6.48 | 5.27 |
| 1/1 | 1/1 | 6.05 | 5.34 |
| 1/1 | 0/1 | 2.95 | 2.37 |
| 1/1 | 1/1 | 4.66 | 4.19 |
| 1/1 | 1/1 | 2.95 | 2.56 |
| 1/1 | 1/1 | 6.84 | 3.74 |
| 1/1 | 1/1 | 7.29 | 4.6 |
| 1/1 | 1/1 | 2.37 | 2.27 |
| 1/1 | 1/1 | 4.7 | 4.63 |
| 1/1 | 1/1 | 6.67 | 6.71 |
| 0/1 | 1/1 | 5.1 | 5.17 |
| 0/1 | 1/1 | 3.17 | 3.26 |
| 1/1 | 1/1 | 9.56 | 9.67 |
| 0/1 | 1/1 | 3.93 | 4.38 |
| 0/1 | 1/1 | 5.64 | 6.18 |
| 0/1 | 1/1 | 2.75 | 3.31 |
| 1/1 | 0/1 | 6.87 | 4.91 |
| 0/1 | 1/1 | 4.37 | 6.45 |
| 1/1 | 1/1 | 6.98 | 5.43 |
| 1/1 | 1/1 | 8.15 | 6.85 |
| 1/1 | 1/1 | 5.59 | 4.55 |
| 1/1 | 1/1 | 5.59 | 4.79 |
| 1/1 | 1/1 | 3.61 | 2.83 |
| 1/1 | 1/1 | 4.36 | 5.84 |
| 0/1 | 1/1 | 3.28 | 4.82 |
| 1/1 | 1/1 | 7.27 | 5.86 |
| 1/1 | 1/1 | 4.23 | 3.43 |
| 1/1 | 0/1 | 3 | 2.28 |
| 1/1 | 1/1 | 5.72 | 5.06 |
| 1/1 | 1/1 | 9.15 | 9.05 |
| 0/1 | 1/1 | 2.56 | 2.76 |
| 0/1 | 1/1 | 5.07 | 5.33 |
| 1/1 | 1/1 | 4.34 | 4.6 |
| 0/1 | 1/1 | 6.39 | 6.7 |
| 1/1 | 1/1 | 6.87 | 7.25 |
| 1/1 | 1/1 | 4.26 | 7.23 |
| 1/1 | 1/1 | 5.12 | 3.03 |
| 1/1 | 1/1 | 5.51 | 4.21 |
| 1/1 | 1/1 | 5.99 | 7.06 |
| 1/1 | 1/1 | 3.48 | 4.56 |
| 1/1 | 1/1 | 4.23 | 5.52 |
| 1/1 | 1/1 | 4.87 | 6.5 |
| 1/1 | 1/1 | 3.7 | 5.73 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.82 | 4.66 |
| 1/1 | 0/1 | 3.09 | 2.34 |
| 1/1 | 1/1 | 9.92 | 9.47 |
| 1/1 | 1/1 | 6.8 | 6.4 |
| 0/1 | 1/1 | 4.71 | 6.74 |
| 1/1 | 1/1 | 3.77 | 6.05 |
| 1/1 | 1/1 | 6.25 | 5.4 |
| 1/1 | 1/1 | 7.56 | 6.82 |
| 1/1 | 1/1 | 5.12 | 4.4 |
| 1/1 | 1/1 | 5.33 | 4.62 |
| 1/1 | 1/1 | 8.26 | 7.69 |
| 0/1 | 1/1 | 4.02 | 3.53 |
| 1/1 | 1/1 | 3.87 | 3.44 |
| 1/1 | 1/1 | 6.16 | 5.77 |
| 0/1 | 1/1 | 3.66 | 3.29 |
| 1/1 | 1/1 | 5.73 | 5.36 |
| 1/1 | 1/1 | 6.65 | 6.27 |
| 1/1 | 1/1 | 5.91 | 5.55 |
| 1/1 | 1/1 | 10.01 | 9.71 |
| 1/1 | 1/1 | 3.92 | 3.62 |
| 1/1 | 1/1 | 5.73 | 5.44 |
| 0/1 | 1/1 | 7.08 | 6.8 |
| 1/1 | 1/1 | 5.94 | 5.73 |
| 1/1 | 1/1 | 3.17 | 3.05 |
| 1/1 | 1/1 | 5 | 4.89 |
| 1/1 | 1/1 | 4.78 | 4.69 |
| 1/1 | 1/1 | 5.99 | 5.9 |
| 1/1 | 1/1 | 6.8 | 6.73 |
| 0/1 | 1/1 | 3.08 | 3.01 |
| 1/1 | 1/1 | 4.38 | 6.41 |
| 0/1 | 1/1 | 2.56 | 4.61 |
| 0/1 | 1/1 | 4.24 | 6.3 |
| 0/1 | 1/1 | 3.95 | 6.11 |
| 0/1 | 1/1 | 1.83 | 4.06 |
| 1/1 | 1/1 | 3.82 | 6.16 |
| 0/1 | 1/1 | 4.17 | 6.6 |
| 0/1 | 1/1 | 2.89 | 5.45 |
| 0/1 | 1/1 | 2.17 | 4.85 |
| 0/1 | 1/1 | 2.63 | 5.44 |
| 0/1 | 1/1 | 3.97 | 6.91 |
| 1/1 | 1/1 | 4.47 | 7.49 |
| 0/1 | 1/1 | 2.35 | 5.91 |
| 0/1 | 1/1 | 3.22 | 6.89 |
| 0/1 | 1/1 | 3.85 | 7.63 |
| 0/1 | 1/1 | 2.98 | 6.86 |
| 0/1 | 1/1 | 2.12 | 6.7 |
| 1/1 | 1/1 | 10.13 | 9.18 |
| 1/1 | 1/1 | 5.84 | 4.97 |
| 1/1 | 1/1 | 11.38 | 10.95 |
| 1/1 | 1/1 | 8.54 | 8.14 |
| 0/1 | 1/1 | 4.11 | 6.38 |
| 1/1 | 1/1 | 8.71 | 7.31 |
| 1/1 | 1/1 | 6.83 | 5.95 |
| 1/1 | 1/1 | 9.22 | 8.42 |
| 1/1 | 1/1 | 5.25 | 4.58 |
| 0/1 | 1/1 | 4.19 | 6.13 |
| 1/1 | 0/1 | 2.99 | 2.08 |
| 1/1 | 1/1 | 3.34 | 3.11 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.62 | 6.44 |
| 1/1 | 1/1 | 8.52 | 7.92 |
| 1/1 | 1/1 | 4.73 | 4.29 |
| 1/1 | 1/1 | 11.71 | 11.3 |
| 1/1 | 1/1 | 9.65 | 9.39 |
| 1/1 | 1/1 | 8.2 | 8.14 |
| 1/1 | 1/1 | 4.97 | 5.1 |
| 1/1 | 1/1 | 7.73 | 6.61 |
| 1/1 | 1/1 | 6.38 | 8.1 |
| 1/1 | 0/1 | 3.56 | 2.45 |
| 1/1 | 1/1 | 6.66 | 6.36 |
| 1/1 | 1/1 | 7.19 | 6.92 |
| 1/1 | 0/1 | 4.82 | 2.81 |
| 1/1 | 1/1 | 4.11 | 4.97 |
| 1/1 | 1/1 | 3.14 | 4.03 |
| 1/1 | 1/1 | 6.5 | 7.43 |
| 1/1 | 1/1 | 3.68 | 4.69 |
| 1/1 | 1/1 | 6.95 | 8.03 |
| 1/1 | 0/1 | 4.34 | 3.01 |
| 1/1 | 1/1 | 5.51 | 4.74 |
| 1/1 | 1/1 | 10.29 | 9.58 |
| 1/1 | 1/1 | 4.3 | 3.77 |
| 1/1 | 0/1 | 4.74 | 3.15 |
| 1/1 | 1/1 | 5.36 | 4.24 |
| 1/1 | 1/1 | 5.17 | 6.42 |
| 0/1 | 1/1 | 1.8 | 3.07 |
| 0/1 | 1/1 | 3.61 | 5.09 |
| 0/1 | 1/1 | 1.98 | 3.52 |
| 0/1 | 1/1 | 3.12 | 4.7 |
| 0/1 | 1/1 | 2.7 | 4.53 |
| 1/1 | 0/1 | 4.96 | 3.18 |
| 1/1 | 1/1 | 8.65 | 7.55 |
| 1/1 | 1/1 | 6.21 | 7.33 |
| 1/1 | 1/1 | 5.42 | 6.6 |
| 1/1 | 1/1 | 6.08 | 4.39 |
| 1/1 | 0/1 | 4.25 | 2.76 |
| 1/1 | 1/1 | 5.96 | 5.21 |
| 0/1 | 1/1 | 4.59 | 4.1 |
| 1/1 | 1/1 | 7.83 | 7.36 |
| 1/1 | 1/1 | 10.52 | 10.06 |
| 1/1 | 1/1 | 8.23 | 7.81 |
| 1/1 | 1/1 | 8.43 | 8.01 |
| 0/1 | 1/1 | 4.37 | 3.99 |
| 1/1 | 1/1 | 9.31 | 9.01 |
| 0/1 | 1/1 | 5.72 | 5.58 |
| 1/1 | 1/1 | 9.18 | 9.11 |
| 1/1 | 1/1 | 5.48 | 5.46 |
| 1/1 | 1/1 | 10.29 | 10.28 |
| 1/1 | 1/1 | 6.86 | 6.86 |
| 1/1 | 1/1 | 7.16 | 7.19 |
| 1/1 | 1/1 | 5.42 | 7.62 |
| 1/1 | 1/1 | 6.58 | 5.78 |
| 1/1 | 1/1 | 4.61 | 4.12 |
| 1/1 | 1/1 | 9 | 8.52 |
| 1/1 | 1/1 | 3.99 | 3.55 |
| 1/1 | 1/1 | 3.18 | 2.93 |
| 1/1 | 1/1 | 6.01 | 5.86 |
| 1/1 | 1/1 | 8.49 | 8.41 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.55 | 8.59 |
| 1/1 | 1/1 | 6.64 | 8.69 |
| 0/1 | 1/1 | 4.16 | 6.24 |
| 1/1 | 1/1 | 4.94 | 7.05 |
| 1/1 | 1/1 | 6.45 | 8.55 |
| 1/1 | 1/1 | 6.66 | 8.76 |
| 1/1 | 1/1 | 5.22 | 7.34 |
| 1/1 | 1/1 | 4.92 | 7.04 |
| 1/1 | 1/1 | 5.94 | 8.1 |
| 1/1 | 1/1 | 6.54 | 8.71 |
| 1/1 | 1/1 | 7.14 | 9.34 |
| 1/1 | 1/1 | 6.27 | 8.47 |
| 1/1 | 1/1 | 5.68 | 7.91 |
| 1/1 | 1/1 | 6.58 | 8.83 |
| 1/1 | 1/1 | 6.42 | 8.71 |
| 1/1 | 1/1 | 5.92 | 8.27 |
| 1/1 | 1/1 | 6.3 | 8.73 |
| 1/1 | 1/1 | 6.04 | 8.65 |
| 0/1 | 1/1 | 3.43 | 6.1 |
| 0/1 | 1/1 | 2.96 | 5.74 |
| 1/1 | 1/1 | 3.94 | 6.87 |
| 0/1 | 1/1 | 2.77 | 5.76 |
| 1/1 | 1/1 | 7 | 6.28 |
| 1/1 | 1/1 | 3.97 | 3.29 |
| 1/1 | 1/1 | 6.41 | 6.23 |
| 1/1 | 1/1 | 4.55 | 3.22 |
| 1/1 | 1/1 | 5.33 | 4.09 |
| 1/1 | 1/1 | 6.02 | 5.33 |
| 1/1 | 1/1 | 7.77 | 7.13 |
| 1/1 | 1/1 | 3.74 | 3.11 |
| 1/1 | 1/1 | 4.46 | 3.88 |
| 1/1 | 1/1 | 8.32 | 7.77 |
| 1/1 | 1/1 | 6.06 | 5.55 |
| 1/1 | 0/1 | 3.57 | 3.09 |
| 1/1 | 1/1 | 6.63 | 5.21 |
| 1/1 | 0/1 | 3.69 | 2.97 |
| 0/1 | 1/1 | 3.11 | 5.65 |
| 1/1 | 1/1 | 5.97 | 4.13 |
| 1/1 | 1/1 | 6.78 | 5.62 |
| 1/1 | 1/1 | 4.02 | 5.01 |
| 1/1 | 1/1 | 5.85 | 6.94 |
| 0/1 | 1/1 | 2.58 | 3.7 |
| 1/1 | 1/1 | 5.15 | 6.37 |
| 0/1 | 1/1 | 2.51 | 3.97 |
| 1/1 | 0/1 | 7.61 | 6 |
| 1/1 | 1/1 | 9.66 | 8.22 |
| 0/1 | 1/1 | 5.71 | 7.05 |
| 1/1 | 1/1 | 6.27 | 7.64 |
| 0/1 | 1/1 | 5.2 | 6.71 |
| 1/1 | 1/1 | 5.71 | 7.27 |
| 1/1 | 1/1 | 7.01 | 8.81 |
| 0/1 | 1/1 | 4.61 | 6.65 |
| 0/1 | 1/1 | 6.34 | 8.58 |
| 0/1 | 1/1 | 4.4 | 6.71 |
| 0/1 | 1/1 | 6.17 | 8.65 |
| 0/1 | 1/1 | 2.45 | 5.61 |
| 1/1 | 1/1 | 5.97 | 3.65 |
| 1/1 | 1/1 | 6 | 4.11 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.5 | 3.03 |
| 1/1 | 1/1 | 4.05 | 3.76 |
| 1/1 | 1/1 | 8.82 | 8.54 |
| 1/1 | 1/1 | 9.17 | 8.9 |
| 1/1 | 1/1 | 4.78 | 4.52 |
| 1/1 | 1/1 | 3.12 | 2.9 |
| 1/1 | 1/1 | 4.51 | 4.3 |
| 1/1 | 1/1 | 6.99 | 6.86 |
| 1/1 | 1/1 | 8.09 | 7.98 |
| 1/1 | 1/1 | 6.34 | 6.34 |
| 0/1 | 1/1 | 2.89 | 2.95 |
| 1/1 | 1/1 | 4.41 | 4.51 |
| 1/1 | 1/1 | 6.73 | 6.86 |
| 1/1 | 1/1 | 2.99 | 3.15 |
| 1/1 | 1/1 | 6.19 | 6.41 |
| 0/1 | 1/1 | 2.5 | 2.75 |
| 1/1 | 1/1 | 6.82 | 7.16 |
| 1/1 | 1/1 | 6.14 | 6.5 |
| 1/1 | 1/1 | 5.52 | 5.91 |
| 1/1 | 1/1 | 3.82 | 4.33 |
| 1/1 | 1/1 | 6.58 | 7.13 |
| 0/1 | 1/1 | 3.64 | 6.39 |
| 0/1 | 1/1 | 2.45 | 5.72 |
| 1/1 | 1/1 | 4.31 | 7.61 |
| 1/1 | 1/1 | 3.97 | 7.68 |
| 1/1 | 1/1 | 7.37 | 5.49 |
| 1/1 | 0/1 | 3.64 | 2.14 |
| 1/1 | 0/1 | 5.39 | 3.95 |
| 1/1 | 0/1 | 5.87 | 4.51 |
| 0/1 | 1/1 | 3.84 | 4.82 |
| 1/1 | 0/1 | 4.38 | 3.36 |
| 1/1 | 0/1 | 6.52 | 5.88 |
| 1/1 | 1/1 | 7.66 | 7.26 |
| 1/1 | 1/1 | 6.81 | 6.44 |
| 1/1 | 1/1 | 8.52 | 8.19 |
| 1/1 | 1/1 | 11.11 | 10.79 |
| 0/1 | 1/1 | 3.19 | 5.61 |
| 1/1 | 1/1 | 11.52 | 10.33 |
| 1/1 | 0/1 | 3.06 | 2.08 |
| 1/1 | 1/1 | 5.99 | 4.91 |
| 1/1 | 1/1 | 3.58 | 2.92 |
| 1/1 | 1/1 | 6.32 | 5.72 |
| 1/1 | 1/1 | 4.95 | 4.69 |
| 1/1 | 1/1 | 4.95 | 6.75 |
| 1/1 | 1/1 | 5.64 | 7.49 |
| 0/1 | 1/1 | 3.71 | 5.88 |
| 1/1 | 1/1 | 3.54 | 5.88 |
| 0/1 | 1/1 | 5.57 | 5.1 |
| 1/1 | 1/1 | 4.84 | 4.47 |
| 1/1 | 1/1 | 7.08 | 6.9 |
| 1/1 | 1/1 | 2.38 | 2.38 |
| 1/1 | 1/1 | 3.93 | 4.2 |
| 1/1 | 1/1 | 4.8 | 5.08 |
| 0/1 | 1/1 | 2.21 | 2.52 |
| 1/1 | 1/1 | 6.73 | 9.13 |
| 1/1 | 1/1 | 6.92 | 9.47 |
| 1/1 | 1/1 | 6.86 | 9.46 |
| 1/1 | 1/1 | 6.39 | 9.01 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.44 | 6.73 |
| 1/1 | 1/1 | 5.73 | 9.25 |
| 1/1 | 1/1 | 6.76 | 5.54 |
| 1/1 | 1/1 | 9.98 | 9.58 |
| 1/1 | 0/1 | 5.21 | 3.18 |
| 0/1 | 1/1 | 2.55 | 3.67 |
| 1/1 | 1/1 | 5.51 | 6.74 |
| 1/1 | 0/1 | 3.43 | 2.3 |
| 1/1 | 1/1 | 9.79 | 9 |
| 1/1 | 1/1 | 3.02 | 2.33 |
| 1/1 | 1/1 | 3.69 | 3.12 |
| 1/1 | 1/1 | 7.86 | 7.4 |
| 1/1 | 1/1 | 7.31 | 6.87 |
| 1/1 | 1/1 | 2.84 | 2.52 |
| 1/1 | 1/1 | 3.46 | 3.47 |
| 1/1 | 1/1 | 10.49 | 10.51 |
| 0/1 | 1/1 | 3.79 | 4.03 |
| 0/1 | 1/1 | 5.55 | 5.99 |
| 1/1 | 1/1 | 7.66 | 8.16 |
| 1/1 | 1/1 | 3.62 | 4.44 |
| 1/1 | 1/1 | 7.2 | 6.7 |
| 1/1 | 1/1 | 3.69 | 3.31 |
| 0/1 | 1/1 | 2.81 | 2.45 |
| 1/1 | 1/1 | 6.86 | 6.56 |
| 1/1 | 1/1 | 6.89 | 6.68 |
| 0/1 | 1/1 | 4.46 | 4.26 |
| 1/1 | 1/1 | 7.12 | 6.98 |
| 1/1 | 1/1 | 7.98 | 7.85 |
| 0/1 | 1/1 | 6.19 | 6.39 |
| 1/1 | 0/1 | 3.45 | 2.6 |
| 1/1 | 1/1 | 6.21 | 6.12 |
| 1/1 | 1/1 | 6.48 | 8.55 |
| 0/1 | 1/1 | 3.67 | 5.81 |
| 1/1 | 1/1 | 4.57 | 6.99 |
| 1/1 | 1/1 | 3.75 | 3.23 |
| 1/1 | 1/1 | 4.4 | 4.02 |
| 1/1 | 1/1 | 8.61 | 8.32 |
| 1/1 | 1/1 | 8.33 | 8.09 |
| 1/1 | 1/1 | 9.6 | 9.66 |
| 1/1 | 1/1 | 3.64 | 3.73 |
| 1/1 | 1/1 | 3 | 3.12 |
| 1/1 | 1/1 | 8.38 | 8.52 |
| 1/1 | 1/1 | 7.01 | 7.16 |
| 1/1 | 1/1 | 6.8 | 7.09 |
| 0/1 | 1/1 | 6.55 | 6.85 |
| 1/1 | 1/1 | 9.17 | 8.19 |
| 1/1 | 1/1 | 7.5 | 7.1 |
| 1/1 | 1/1 | 3.23 | 3.02 |
| 1/1 | 1/1 | 7.18 | 6.97 |
| 1/1 | 1/1 | 5.52 | 4.54 |
| 1/1 | 1/1 | 9.09 | 8.42 |
| 0/1 | 1/1 | 4.19 | 3.69 |
| 1/1 | 1/1 | 8.62 | 8.17 |
| 1/1 | 1/1 | 10.56 | 10.22 |
| 1/1 | 1/1 | 6.62 | 6.28 |
| 1/1 | 1/1 | 5.32 | 5.08 |
| 1/1 | 1/1 | 6.6 | 6.36 |
| 1/1 | 1/1 | 10 | 9.81 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.53 | 5.45 |
| 1/1 | 1/1 | 4.04 | 2.5 |
| 1/1 | 1/1 | 5.56 | 4.7 |
| 1/1 | 1/1 | 4.19 | 3.37 |
| 1/1 | 0/1 | 5.1 | 4.14 |
| 1/1 | 1/1 | 5.51 | 4.87 |
| 1/1 | 1/1 | 4.85 | 4.34 |
| 1/1 | 1/1 | 5.9 | 5.5 |
| 1/1 | 1/1 | 6.98 | 6.59 |
| 1/1 | 1/1 | 3.71 | 5.68 |
| 1/1 | 1/1 | 4.3 | 6.41 |
| 1/1 | 1/1 | 6.25 | 5.07 |
| 1/1 | 1/1 | 7.06 | 6.66 |
| 1/1 | 0/1 | 5 | 3.53 |
| 1/1 | 0/1 | 6.36 | 5.64 |
| 0/1 | 1/1 | 1.77 | 3.53 |
| 1/1 | 0/1 | 5.56 | 4.35 |
| 1/1 | 1/1 | 7.44 | 6.64 |
| 1/1 | 1/1 | 5.81 | 5.04 |
| 1/1 | 1/1 | 5.02 | 4.54 |
| 1/1 | 1/1 | 5.84 | 5.43 |
| 1/1 | 1/1 | 7.32 | 3.22 |
| 1/1 | 1/1 | 11.51 | 7.76 |
| 1/1 | 1/1 | 6.27 | 2.73 |
| 1/1 | 1/1 | 7.07 | 3.55 |
| 1/1 | 1/1 | 10.79 | 10 |
| 1/1 | 1/1 | 12.95 | 12.17 |
| 1/1 | 1/1 | 7.35 | 6.59 |
| 1/1 | 1/1 | 8.19 | 8.02 |
| 1/1 | 1/1 | 8.39 | 8.24 |
| 1/1 | 1/1 | 7.88 | 7.92 |
| 1/1 | 1/1 | 6.55 | 5.77 |
| 1/1 | 1/1 | 5.65 | 5.07 |
| 1/1 | 0/1 | 7.91 | 7.43 |
| 1/1 | 1/1 | 7.62 | 7.24 |
| 0/1 | 1/1 | 5.44 | 5.17 |
| 1/1 | 1/1 | 3.57 | 3.32 |
| 1/1 | 1/1 | 6.31 | 6.11 |
| 1/1 | 1/1 | 10.9 | 10.7 |
| 1/1 | 1/1 | 8.34 | 8.18 |
| 0/1 | 1/1 | 6.12 | 6.04 |
| 0/1 | 1/1 | 5.21 | 5.14 |
| 0/1 | 1/1 | 4.23 | 4.19 |
| 0/1 | 1/1 | 6.57 | 6.54 |
| 1/1 | 1/1 | 9.77 | 9.79 |
| 1/1 | 1/1 | 6.15 | 4.5 |
| 1/1 | 1/1 | 3.5 | 4.82 |
| 1/1 | 1/1 | 7.02 | 6.23 |
| 1/1 | 1/1 | 6.71 | 6.16 |
| 1/1 | 1/1 | 5.35 | 4.83 |
| 1/1 | 1/1 | 5.42 | 5 |
| 1/1 | 1/1 | 5.05 | 4.72 |
| 0/1 | 1/1 | 3.52 | 3.41 |
| 1/1 | 0/1 | 4.7 | 2.78 |
| 1/1 | 1/1 | 5.46 | 6.75 |
| 1/1 | 1/1 | 6.83 | 5.53 |
| 1/1 | 1/1 | 7.75 | 7.12 |
| 1/1 | 1/1 | 6.89 | 6.41 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 8.61 | 8.11 |
| 0/1 | 1/1 | 3.94 | 5.6 |
| 1/1 | 1/1 | 6.22 | 4.82 |
| 1/1 | 1/1 | 8.06 | 7.15 |
| 1/1 | 1/1 | 10.25 | 9.47 |
| 1/1 | 1/1 | 6.48 | 7.88 |
| 1/1 | 1/1 | 6.01 | 7.46 |
| 0/1 | 1/1 | 4.72 | 6.38 |
| 0/1 | 1/1 | 3.21 | 4.88 |
| 0/1 | 1/1 | 3.11 | 5.06 |
| 0/1 | 1/1 | 4.63 | 6.62 |
| 1/1 | 0/1 | 5.86 | 4.82 |
| 1/1 | 1/1 | 6.56 | 5.67 |
| 1/1 | 0/1 | 5.92 | 5.21 |
| 1/1 | 1/1 | 6.18 | 5.87 |
| 0/1 | 1/1 | 3.51 | 5.31 |
| 0/1 | 1/1 | 2.85 | 5.7 |
| 1/1 | 1/1 | 8.99 | 5.02 |
| 1/1 | 1/1 | 8.32 | 4.58 |
| 1/1 | 1/1 | 6.69 | 3.15 |
| 1/1 | 0/1 | 6.38 | 2.89 |
| 1/1 | 1/1 | 9.43 | 6.03 |
| 1/1 | 1/1 | 10.04 | 6.65 |
| 1/1 | 0/1 | 5.33 | 2.05 |
| 1/1 | 1/1 | 8.56 | 5.29 |
| 1/1 | 1/1 | 7.26 | 4.02 |
| 1/1 | 1/1 | 8.12 | 4.91 |
| 1/1 | 0/1 | 3.85 | 3.11 |
| 1/1 | 1/1 | 8.29 | 7.81 |
| 1/1 | 1/1 | 8.71 | 8.31 |
| 1/1 | 1/1 | 8.46 | 8.12 |
| 1/1 | 1/1 | 5.85 | 5.56 |
| 1/1 | 1/1 | 5.82 | 5.55 |
| 1/1 | 1/1 | 9.41 | 9.56 |
| 1/1 | 1/1 | 3.85 | 4.24 |
| 1/1 | 0/1 | 6.72 | 4.7 |
| 1/1 | 1/1 | 7.39 | 5.93 |
| 0/1 | 1/1 | 2.28 | 3.08 |
| 1/1 | 1/1 | 2.95 | 3.84 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.81 | 5.1 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 7.14 | 6.53 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.09 | 5.67 |
| 1/1 | 1/1 | 7.87 | 7.5 |
| 1/1 | 1/1 | 6.84 | 6.49 |
| 1/1 | 1/1 | 4.68 | 4.35 |
| 1/1 | 1/1 | 6.04 | 5.75 |
| 1/1 | 1/1 | 8.34 | 8.06 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 4.45 | 2.05 |
| 1/1 | 0/1 | 4.95 | 3.3 |
| 0/1 | 1/1 | 2.82 | 4.34 |
| 1/1 | 1/1 | 8.91 | 7.45 |
| 1/1 | 1/1 | 4.56 | 3.42 |
| 1/1 | 1/1 | 5.25 | 4.23 |
| 1/1 | 1/1 | 5.02 | 4.01 |
| 1/1 | 1/1 | 5.17 | 4.23 |
| 1/1 | 0/1 | 3.47 | 2.62 |
| 1/1 | 1/1 | 4.02 | 3.18 |
| 1/1 | 1/1 | 4.99 | 6.35 |
| 1/1 | 1/1 | 5.24 | 6.69 |
| 1/1 | 1/1 | 3.76 | 5.34 |
| 1/1 | 0/1 | 6.18 | 4.61 |
| 1/1 | 1/1 | 6.04 | 7.54 |
| 0/1 | 1/1 | 2.34 | 3.92 |
| 1/1 | 1/1 | 4.41 | 6.07 |
| 0/1 | 1/1 | 4.11 | 6.08 |
| 1/1 | 1/1 | 6.48 | 4.18 |
| 1/1 | 1/1 | 5.32 | 3.08 |
| 1/1 | 1/1 | 4.64 | 5.25 |
| 1/1 | 1/1 | 3.51 | 4.84 |
| 1/1 | 0/1 | 7.24 | 6.14 |
| 1/1 | 0/1 | 5.59 | 4.71 |
| 1/1 | 1/1 | 7.73 | 7.08 |
| 1/1 | 1/1 | 6.93 | 6.39 |
| 0/1 | 1/1 | 7.82 | 7.41 |
| 1/1 | 1/1 | 6.68 | 6.29 |
| 1/1 | 1/1 | 7.39 | 7 |
| 0/1 | 1/1 | 4.33 | 6.32 |
| 1/1 | 0/1 | 4.01 | 2.3 |
| 0/1 | 1/1 | 2.49 | 3.91 |
| 0/1 | 1/1 | 2.46 | 4.59 |
| 1/1 | 0/1 | 4.02 | 2.74 |
| 1/1 | 0/1 | 6.68 | 5.64 |
| 1/1 | 1/1 | 5.21 | 4.58 |
| 1/1 | 1/1 | 3.62 | 3.01 |
| 1/1 | 1/1 | 4.5 | 6.38 |
| 1/1 | 1/1 | 10.83 | 8.47 |
| 1/1 | 1/1 | 6.99 | 4.82 |
| 1/1 | 1/1 | 7.08 | 5.03 |
| 1/1 | 1/1 | 5.96 | 3.96 |
| 1/1 | 1/1 | 9.35 | 7.35 |
| 1/1 | 0/1 | 5.75 | 3.94 |
| 1/1 | 1/1 | 7.1 | 5.39 |
| 0/1 | 1/1 | 2.8 | 3.97 |
| 1/1 | 1/1 | 3.88 | 5.13 |
| 0/1 | 1/1 | 4.59 | 6.04 |
| 1/1 | 0/1 | 3.98 | 2.48 |
| 1/1 | 1/1 | 5.08 | 4 |
| 1/1 | 1/1 | 5.28 | 4.38 |
| 1/1 | 1/1 | 3.07 | 4.46 |
| 1/1 | 1/1 | 3.19 | 4.7 |
| 1/1 | 1/1 | 4.62 | 6.39 |
| 1/1 | 0/1 | 5.25 | 2.31 |
| 1/1 | 0/1 | 7.48 | 4.73 |
| 1/1 | 1/1 | 6.19 | 3.46 |
| 1/1 | 0/1 | 5.14 | 2.53 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.6 | 2.38 |
| 1/1 | 1/1 | 5.85 | 5.73 |
| 1/1 | 1/1 | 7.04 | 6.93 |
| 1/1 | 1/1 | 8.34 | 8.31 |
| 1/1 | 1/1 | 9.58 | 9.69 |
| 1/1 | 1/1 | 5 | 3.52 |
| 1/1 | 1/1 | 2.9 | 4.36 |
| 1/1 | 1/1 | 11.81 | 11.48 |
| 0/1 | 1/1 | 6.93 | 6.93 |
| 1/1 | 1/1 | 9.36 | 9.42 |
| 0/1 | 1/1 | 5.7 | 5.76 |
| 1/1 | 1/1 | 5.62 | 5.71 |
| 1/1 | 1/1 | 8.36 | 8.48 |
| 1/1 | 1/1 | 7.12 | 7.37 |
| 1/1 | 1/1 | 6.93 | 7.18 |
| 0/1 | 1/1 | 3.62 | 4.04 |
| 1/1 | 1/1 | 7.63 | 8.07 |
| 1/1 | 1/1 | 7.45 | 7.89 |
| 1/1 | 1/1 | 4.09 | 6.57 |
| 0/1 | 1/1 | 5.18 | 7.66 |
| 1/1 | 1/1 | 4.43 | 6.95 |
| 1/1 | 1/1 | 6.44 | 8.95 |
| 1/1 | 1/1 | 5.17 | 7.76 |
| 1/1 | 1/1 | 4.97 | 7.66 |
| 1/1 | 1/1 | 5.05 | 7.84 |
| 1/1 | 1/1 | 4.43 | 7.31 |
| 1/1 | 1/1 | 4.8 | 7.69 |
| 0/1 | 1/1 | 2.86 | 6.05 |
| 0/1 | 1/1 | 2.87 | 6.17 |
| 1/1 | 1/1 | 4.42 | 7.83 |
| 0/1 | 1/1 | 3.39 | 6.84 |
| 1/1 | 1/1 | 5.65 | 5.49 |
| 0/1 | 1/1 | 8.71 | 8.78 |
| 1/1 | 1/1 | 10.47 | 10.54 |
| 0/1 | 1/1 | 7.92 | 8.13 |
| 1/1 | 1/1 | 5.59 | 6.07 |
| 1/1 | 1/1 | 8.53 | 7.17 |
| 1/1 | 1/1 | 8.99 | 8.15 |
| 1/1 | 1/1 | 7.54 | 6.58 |
| 1/1 | 1/1 | 7.85 | 7.3 |
| 1/1 | 1/1 | 7.97 | 7.8 |
| 1/1 | 1/1 | 4.21 | 4.14 |
| 1/1 | 1/1 | 3.61 | 4.06 |
| 1/1 | 1/1 | 5.89 | 6.51 |
| 1/1 | 1/1 | 5.51 | 3.02 |
| 1/1 | 1/1 | 6.75 | 4.33 |
| 1/1 | 0/1 | 4.17 | 1.97 |
| 1/1 | 0/1 | 5.56 | 3.37 |
| 1/1 | 0/1 | 5.79 | 3.97 |
| 1/1 | 1/1 | 6.23 | 4.44 |
| 0/1 | 1/1 | 3.72 | 4.07 |
| 0/1 | 1/1 | 3.02 | 3.42 |
| 1/1 | 1/1 | 6.52 | 7.21 |
| 1/1 | 1/1 | 7.32 | 8.14 |
| 1/1 | 1/1 | 4.85 | 4.72 |
| 1/1 | 1/1 | 2.86 | 2.87 |
| 1/1 | 1/1 | 3.61 | 3.63 |
| 1/1 | 1/1 | 7.27 | 7.41 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.17 | 8.4 |
| 1/1 | 1/1 | 8.83 | 9.07 |
| 1/1 | 1/1 | 7.22 | 7.52 |
| 1/1 | 1/1 | 7.34 | 7.79 |
| 1/1 | 1/1 | 5.31 | 5.91 |
| 1/1 | 1/1 | 6.73 | 7.4 |
| 0/1 | 1/1 | 2.37 | 5.05 |
| 1/1 | 1/1 | 5.1 | 8.21 |
| 0/1 | 1/1 | 2.65 | 6.56 |
| 1/1 | 1/1 | 3.48 | 7.75 |
| 1/1 | 1/1 | 7.79 | 6.6 |
| 1/1 | 1/1 | 8.02 | 7.05 |
| 1/1 | 0/1 | 3.85 | 3.08 |
| 1/1 | 1/1 | 6.64 | 5.93 |
| 1/1 | 1/1 | 5.74 | 5.13 |
| 1/1 | 1/1 | 2.63 | 2.13 |
| 1/1 | 1/1 | 7.59 | 7.12 |
| 1/1 | 1/1 | 4.52 | 6.13 |
| 1/1 | 1/1 | 5.66 | 7.39 |
| 1/1 | 1/1 | 6.65 | 2.98 |
| 1/1 | 1/1 | 6.5 | 6.42 |
| 1/1 | 1/1 | 7.29 | 7.91 |
| 1/1 | 1/1 | 10.63 | 10.04 |
| 1/1 | 1/1 | 7.3 | 7 |
| 1/1 | 1/1 | 6.32 | 6.15 |
| 1/1 | 1/1 | 7.27 | 7.37 |
| 1/1 | 1/1 | 10.11 | 10.32 |
| 1/1 | 0/1 | 5.28 | 3.15 |
| 0/1 | 1/1 | 2.55 | 3.21 |
| 0/1 | 1/1 | 5.25 | 6.52 |
| 1/1 | 1/1 | 8.58 | 7.69 |
| 1/1 | 0/1 | 7.35 | 6.68 |
| 1/1 | 1/1 | 6.08 | 5.61 |
| 1/1 | 1/1 | 5.35 | 4.92 |
| 1/1 | 1/1 | 6.26 | 6.04 |
| 0/1 | 1/1 | 2.85 | 5.7 |
| 1/1 | 0/1 | 5.41 | 4.19 |
| 1/1 | 1/1 | 4.99 | 3.97 |
| 1/1 | 1/1 | 3.67 | 3.1 |
| 1/1 | 0/1 | 2.63 | 2.19 |
| 1/1 | 1/1 | 4.73 | 3.64 |
| 1/1 | 0/1 | 3.96 | 3.21 |
| 1/1 | 1/1 | 4.58 | 4.01 |
| 0/1 | 1/1 | 3.46 | 2.91 |
| 1/1 | 1/1 | 5.32 | 4.83 |
| 1/1 | 1/1 | 8.13 | 7.83 |
| 1/1 | 1/1 | 4.36 | 4.06 |
| 0/1 | 1/1 | 2.45 | 4.16 |
| 1/1 | 1/1 | 7.8 | 7.2 |
| 1/1 | 1/1 | 6.87 | 7.05 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.81 | 5.1 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 7.14 | 6.53 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.09 | 5.67 |
| 1/1 | 1/1 | 9.01 | 8.63 |
| 1/1 | 1/1 | 7.87 | 7.5 |
| 1/1 | 1/1 | 6.84 | 6.49 |
| 1/1 | 1/1 | 4.68 | 4.35 |
| 1/1 | 1/1 | 5.6 | 5.27 |
| 1/1 | 1/1 | 6.04 | 5.75 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 1/1 | 10.82 | 9.19 |
| 1/1 | 1/1 | 5.36 | 4.3 |
| 0/1 | 1/1 | 4.68 | 6.13 |
| 1/1 | 1/1 | 5.19 | 3.54 |
| 1/1 | 1/1 | 3.31 | 4.77 |
| 1/1 | 1/1 | 8.69 | 7.48 |
| 1/1 | 1/1 | 6.97 | 6.08 |
| 1/1 | 1/1 | 8.94 | 8.11 |
| 1/1 | 1/1 | 6.26 | 5.46 |
| 1/1 | 1/1 | 9.59 | 8.8 |
| 1/1 | 1/1 | 6.93 | 6.28 |
| 1/1 | 1/1 | 7.58 | 6.98 |
| 1/1 | 1/1 | 8.03 | 7.53 |
| 1/1 | 1/1 | 12.63 | 12.15 |
| 1/1 | 1/1 | 7.44 | 6.29 |
| 1/1 | 1/1 | 4.61 | 3.89 |
| 1/1 | 1/1 | 6.79 | 6.08 |
| 1/1 | 1/1 | 4.17 | 3.68 |
| 1/1 | 1/1 | 4.42 | 6.13 |
| 1/1 | 1/1 | 5.26 | 6.97 |
| 0/1 | 1/1 | 2.88 | 4.74 |
| 0/1 | 1/1 | 2.69 | 4.7 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 0/1 | 3.79 | 2.49 |
| 1/1 | 1/1 | 5.46 | 4.52 |
| 1/1 | 1/1 | 6.81 | 6.18 |
| 1/1 | 1/1 | 8.56 | 7.99 |
| 0/1 | 1/1 | 3.95 | 5.55 |
| 1/1 | 0/1 | 3.89 | 2.5 |
| 1/1 | 1/1 | 8.75 | 7.78 |
| 1/1 | 1/1 | 4.06 | 5.46 |
| 1/1 | 1/1 | 4.61 | 6.13 |
| 1/1 | 1/1 | 7.21 | 6.46 |
| 1/1 | 1/1 | 7.74 | 7.21 |
| 1/1 | 1/1 | 5.4 | 5.16 |
| 1/1 | 1/1 | 7.61 | 7.38 |
| 1/1 | 1/1 | 5.71 | 5.52 |
| 1/1 | 1/1 | 6.49 | 6.35 |
| 1/1 | 1/1 | 6.09 | 5.96 |
| 1/1 | 1/1 | 7.92 | 7.86 |
| 0/1 | 1/1 | 5.5 | 5.46 |
| 0/1 | 1/1 | 5.63 | 5.58 |
| 1/1 | 1/1 | 5.87 | 5.87 |
| 0/1 | 1/1 | 8.07 | 8.07 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.61 | 8.36 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 5.5 | 4.92 |
| 1/1 | 1/1 | 6.75 | 6.35 |
| 1/1 | 1/1 | 6.93 | 6.69 |
| 1/1 | 1/1 | 7.47 | 7.25 |
| 0/1 | 1/1 | 3.33 | 3.13 |
| 0/1 | 1/1 | 9.43 | 9.3 |
| 0/1 | 1/1 | 5.92 | 5.89 |
| 0/1 | 1/1 | 6.25 | 6.29 |
| 1/1 | 1/1 | 7 | 7.05 |
| 1/1 | 1/1 | 6.21 | 6.32 |
| 1/1 | 1/1 | 5.86 | 8.18 |
| 1/1 | 1/1 | 3.94 | 6.29 |
| 0/1 | 1/1 | 3.58 | 6.2 |
| 1/1 | 1/1 | 4.92 | 7.57 |
| 0/1 | 1/1 | 2.95 | 5.69 |
| 1/1 | 0/1 | 8.07 | 2.49 |
| 1/1 | 0/1 | 8.07 | 2.77 |
| 1/1 | 1/1 | 9.32 | 4.45 |
| 1/1 | 0/1 | 6.36 | 3.6 |
| 1/1 | 1/1 | 9.52 | 6.86 |
| 1/1 | 0/1 | 4.7 | 2.89 |
| 1/1 | 0/1 | 5.23 | 3.54 |
| 1/1 | 1/1 | 8.44 | 6.87 |
| 1/1 | 1/1 | 4.86 | 3.5 |
| 1/1 | 1/1 | 6.77 | 5.43 |
| 1/1 | 0/1 | 4.69 | 3.77 |
| 1/1 | 1/1 | 5.55 | 4.73 |
| 1/1 | 1/1 | 6.46 | 5.89 |
| 1/1 | 1/1 | 9.03 | 8.5 |
| 1/1 | 1/1 | 9.09 | 8.66 |
| 1/1 | 1/1 | 4.96 | 4.64 |
| 1/1 | 1/1 | 6.98 | 6.67 |
| 1/1 | 1/1 | 8.94 | 9.02 |
| 1/1 | 1/1 | 3.81 | 4.02 |
| 1/1 | 0/1 | 5.26 | 3.77 |
| 1/1 | 1/1 | 5.63 | 4.69 |
| 1/1 | 1/1 | 4.28 | 3.4 |
| 1/1 | 1/1 | 5.3 | 4.58 |
| 1/1 | 1/1 | 3.25 | 5.06 |
| 1/1 | 1/1 | 8.83 | 7.54 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.76 | 8.54 |
| 1/1 | 1/1 | 8.71 | 7.54 |
| 1/1 | 1/1 | 4.61 | 3.54 |
| 1/1 | 1/1 | 9.54 | 8.56 |
| 1/1 | 1/1 | 7.96 | 7.01 |
| 1/1 | 1/1 | 8.91 | 7.97 |
| 1/1 | 1/1 | 8.91 | 8.12 |
| 1/1 | 0/1 | 5.83 | 5.03 |
| 1/1 | 1/1 | 8.11 | 7.35 |
| 1/1 | 1/1 | 9.82 | 9.08 |
| 1/1 | 1/1 | 8.31 | 7.58 |
| 1/1 | 1/1 | 8.53 | 7.82 |
| 1/1 | 1/1 | 9.66 | 8.96 |
| 1/1 | 1/1 | 9.19 | 8.5 |
| 1/1 | 1/1 | 8.14 | 7.47 |
| 1/1 | 1/1 | 7.89 | 7.23 |
| 1/1 | 1/1 | 8.42 | 7.79 |
| 1/1 | 1/1 | 4.88 | 4.27 |
| 1/1 | 1/1 | 8.62 | 8.01 |
| 1/1 | 1/1 | 8.3 | 7.77 |
| 1/1 | 1/1 | 8.19 | 7.66 |
| 1/1 | 1/1 | 8.03 | 7.51 |
| 0/1 | 1/1 | 3.43 | 5.14 |
| 1/1 | 1/1 | 7.49 | 6.91 |
| 1/1 | 1/1 | 8.59 | 8.11 |
| 1/1 | 1/1 | 6.82 | 6.38 |
| 1/1 | 1/1 | 5.98 | 5.54 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 3.74 | 3.35 |
| 1/1 | 1/1 | 6.66 | 6.28 |
| 1/1 | 1/1 | 7.68 | 7.37 |
| 1/1 | 1/1 | 8.69 | 8.4 |
| 1/1 | 1/1 | 5.75 | 5.57 |
| 0/1 | 1/1 | 6.85 | 6.71 |
| 1/1 | 1/1 | 5 | 4.91 |
| 1/1 | 1/1 | 7.52 | 7.44 |
| 1/1 | 1/1 | 7.43 | 7.35 |
| 1/1 | 1/1 | 9.8 | 9.76 |
| 1/1 | 1/1 | 7.12 | 7.08 |
| 1/1 | 1/1 | 7.04 | 7.01 |
| 1/1 | 1/1 | 7.07 | 7.14 |
| 1/1 | 1/1 | 6.76 | 6.85 |
| 1/1 | 1/1 | 9.24 | 9.36 |
| 1/1 | 1/1 | 9.89 | 10.02 |
| 1/1 | 1/1 | 5.67 | 5.82 |
| 0/1 | 1/1 | 5.13 | 7.58 |
| 1/1 | 0/1 | 5.49 | 3.36 |
| 1/1 | 0/1 | 4.23 | 2.2 |
| 1/1 | 1/1 | 7.61 | 6.21 |
| 1/1 | 1/1 | 5.72 | 4.12 |
| 1/1 | 1/1 | 4.59 | 3.45 |
| 1/1 | 0/1 | 5.32 | 3.45 |
| 1/1 | 1/1 | 6.09 | 4.95 |
| 1/1 | 1/1 | 7.49 | 4.16 |
| 1/1 | 1/1 | 7.95 | 5.08 |
| 1/1 | 1/1 | 5.71 | 5.23 |
| 1/1 | 1/1 | 4.57 | 4.16 |
| 1/1 | 1/1 | 10.03 | 9.69 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.88 | 6.59 |
| 1/1 | 1/1 | 10.6 | 10.51 |
| 1/1 | 1/1 | 8.85 | 7.8 |
| 1/1 | 1/1 | 4.72 | 4.12 |
| 1/1 | 1/1 | 6.67 | 6.32 |
| 1/1 | 1/1 | 7.06 | 6.78 |
| 0/1 | 1/1 | 4.18 | 6.2 |
| 1/1 | 1/1 | 8.41 | 7.93 |
| 1/1 | 1/1 | 7.36 | 7.04 |
| 1/1 | 1/1 | 8.43 | 8.17 |
| 1/1 | 1/1 | 9.96 | 9.8 |
| 1/1 | 1/1 | 8.24 | 8.1 |
| 1/1 | 1/1 | 8.02 | 7.9 |
| 1/1 | 1/1 | 7.98 | 7.91 |
| 1/1 | 1/1 | 8.19 | 8.19 |
| 1/1 | 1/1 | 8.63 | 8.81 |
| 1/1 | 1/1 | 7.79 | 8.03 |
| 0/1 | 1/1 | 4.26 | 7.64 |
| 0/1 | 1/1 | 4.56 | 8.85 |
| 1/1 | 1/1 | 4.84 | 9.23 |
| 0/1 | 1/1 | 4.15 | 9.42 |
| 1/1 | 0/1 | 6.18 | 3.33 |
| 1/1 | 1/1 | 10.06 | 7.32 |
| 1/1 | 1/1 | 8.82 | 7.34 |
| 1/1 | 0/1 | 8.18 | 7.17 |
| 1/1 | 1/1 | 10.54 | 9.81 |
| 1/1 | 1/1 | 8.99 | 8.26 |
| 1/1 | 1/1 | 7.5 | 6.78 |
| 0/1 | 1/1 | 4.78 | 6.07 |
| 1/1 | 1/1 | 7.62 | 8.97 |
| 0/1 | 1/1 | 5.86 | 7.25 |
| 1/1 | 1/1 | 6.42 | 7.82 |
| 1/1 | 1/1 | 6.94 | 8.34 |
| 0/1 | 1/1 | 6.51 | 7.9 |
| 1/1 | 1/1 | 7.05 | 8.47 |
| 0/1 | 1/1 | 5.48 | 6.96 |
| 0/1 | 1/1 | 5.58 | 7.18 |
| 0/1 | 1/1 | 7.02 | 8.64 |
| 0/1 | 1/1 | 4.2 | 5.93 |
| 0/1 | 1/1 | 3.76 | 5.51 |
| 0/1 | 1/1 | 4.67 | 6.48 |
| 1/1 | 1/1 | 6.25 | 8.09 |
| 1/1 | 1/1 | 7.58 | 9.48 |
| 0/1 | 1/1 | 4.11 | 6.19 |
| 1/1 | 1/1 | 6.32 | 8.41 |
| 1/1 | 1/1 | 5.41 | 7.57 |
| 1/1 | 1/1 | 7.15 | 9.36 |
| 1/1 | 1/1 | 3.22 | 5.55 |
| 0/1 | 1/1 | 4.49 | 6.91 |
| 1/1 | 1/1 | 5.55 | 8.14 |
| 1/1 | 1/1 | 6.17 | 8.78 |
| 0/1 | 1/1 | 2.76 | 5.76 |
| 1/1 | 1/1 | 10.22 | 9.06 |
| 1/1 | 1/1 | 9.65 | 8.77 |
| 1/1 | 1/1 | 8.65 | 8.01 |
| 1/1 | 1/1 | 6.87 | 6.26 |
| 1/1 | 1/1 | 9.45 | 8.9 |
| 1/1 | 1/1 | 8.01 | 7.52 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.74 | 6.33 |
| 1/1 | 1/1 | 8.12 | 7.9 |
| 1/1 | 1/1 | 7.18 | 7.02 |
| 0/1 | 1/1 | 2.7 | 2.71 |
| 0/1 | 1/1 | 3.57 | 5.98 |
| 1/1 | 1/1 | 3.01 | 2.67 |
| 1/1 | 1/1 | 6.53 | 6.85 |
| 1/1 | 1/1 | 5.75 | 4.25 |
| 0/1 | 1/1 | 4.06 | 5.37 |
| 1/1 | 1/1 | 7.41 | 5.85 |
| 1/1 | 0/1 | 3.25 | 2.01 |
| 0/1 | 1/1 | 3.77 | 5.15 |
| 0/1 | 1/1 | 2.69 | 4.41 |
| 1/1 | 0/1 | 6.37 | 2.75 |
| 1/1 | 1/1 | 7.04 | 3.94 |
| 1/1 | 0/1 | 5.53 | 2.55 |
| 1/1 | 0/1 | 4.28 | 3.52 |
| 1/1 | 1/1 | 4.16 | 3.72 |
| 1/1 | 1/1 | 5.87 | 5.49 |
| 1/1 | 1/1 | 3.69 | 3.39 |
| 1/1 | 1/1 | 5.23 | 4.98 |
| 1/1 | 1/1 | 6.35 | 6.19 |
| 1/1 | 1/1 | 7.88 | 7.8 |
| 1/1 | 1/1 | 3.7 | 3.65 |
| 1/1 | 1/1 | 6.22 | 6.25 |
| 0/1 | 1/1 | 4.44 | 4.64 |
| 1/1 | 1/1 | 7.15 | 7.49 |
| 0/1 | 1/1 | 3.72 | 4.09 |
| 1/1 | 0/1 | 5.81 | 4.49 |
| 1/1 | 1/1 | 7 | 5.77 |
| 1/1 | 1/1 | 8.39 | 7.62 |
| 1/1 | 1/1 | 4.25 | 3.51 |
| 1/1 | 0/1 | 6.91 | 6.25 |
| 1/1 | 1/1 | 8.52 | 7.57 |
| 1/1 | 1/1 | 5.64 | 5.02 |
| 1/1 | 1/1 | 6.54 | 5.97 |
| 1/1 | 0/1 | 2.61 | 2.13 |
| 1/1 | 1/1 | 6.78 | 6.36 |
| 1/1 | 1/1 | 6.62 | 6.33 |
| 1/1 | 1/1 | 7.31 | 7.05 |
| 1/1 | 1/1 | 6.3 | 6.05 |
| 1/1 | 1/1 | 7.25 | 7.02 |
| 1/1 | 1/1 | 9.61 | 9.41 |
| 1/1 | 1/1 | 9.77 | 9.57 |
| 1/1 | 1/1 | 5.86 | 7.94 |
| 1/1 | 1/1 | 7.51 | 9.61 |
| 1/1 | 1/1 | 5.56 | 7.8 |
| 0/1 | 1/1 | 3.5 | 5.76 |
| 1/1 | 0/1 | 5.05 | 2.73 |
| 1/1 | 0/1 | 4.2 | 2.04 |
| 1/1 | 1/1 | 6.75 | 4.68 |
| 1/1 | 1/1 | 5.97 | 4.02 |
| 1/1 | 1/1 | 6.31 | 4.53 |
| 1/1 | 0/1 | 4.24 | 2.46 |
| 1/1 | 0/1 | 4.1 | 2.44 |
| 1/1 | 0/1 | 4.64 | 3.03 |
| 1/1 | 1/1 | 5.64 | 6.13 |
| 0/1 | 1/1 | 5.07 | 5.7 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.76 | 4.84 |
| 1/1 | 0/1 | 4.95 | 3.33 |
| 1/1 | 1/1 | 8.59 | 7.41 |
| 1/1 | 0/1 | 3.36 | 2.27 |
| 1/1 | 1/1 | 4.83 | 3.89 |
| 0/1 | 1/1 | 2.98 | 4.3 |
| 1/1 | 1/1 | 2.95 | 4.53 |
| 1/1 | 1/1 | 7.7 | 7.08 |
| 1/1 | 1/1 | 4.53 | 4.29 |
| 1/1 | 1/1 | 12.21 | 12.04 |
| 1/1 | 1/1 | 6.47 | 6.42 |
| 1/1 | 1/1 | 5.91 | 5.86 |
| 0/1 | 1/1 | 7.6 | 7.58 |
| 1/1 | 1/1 | 5.93 | 5.91 |
| 1/1 | 1/1 | 3.36 | 3.36 |
| 1/1 | 1/1 | 6.39 | 8.66 |
| 1/1 | 1/1 | 6.42 | 8.73 |
| 1/1 | 1/1 | 4.24 | 6.67 |
| 1/1 | 1/1 | 3.08 | 5.87 |
| 1/1 | 0/1 | 3.6 | 2.18 |
| 1/1 | 0/1 | 3.7 | 2.65 |
| 1/1 | 1/1 | 7.49 | 6.54 |
| 1/1 | 0/1 | 3.47 | 2.53 |
| 1/1 | 1/1 | 8.19 | 7.51 |
| 0/1 | 1/1 | 2.6 | 4.1 |
| 1/1 | 1/1 | 3.11 | 4.63 |
| 0/1 | 1/1 | 2.96 | 5.08 |
| 1/1 | 1/1 | 9.7 | 7.91 |
| 1/1 | 1/1 | 5.82 | 4.23 |
| 1/1 | 1/1 | 11.03 | 9.67 |
| 1/1 | 1/1 | 3.38 | 4.38 |
| 1/1 | 1/1 | 4.78 | 5.83 |
| 1/1 | 1/1 | 4.34 | 5.42 |
| 0/1 | 1/1 | 3.98 | 5.14 |
| 1/1 | 1/1 | 5.24 | 6.46 |
| 1/1 | 0/1 | 5.68 | 4.6 |
| 1/1 | 1/1 | 6.16 | 5.54 |
| 1/1 | 1/1 | 8.17 | 7.79 |
| 1/1 | 1/1 | 6.85 | 8.54 |
| 1/1 | 1/1 | 5.72 | 7.58 |
| 1/1 | 1/1 | 5.16 | 7.29 |
| 0/1 | 1/1 | 3.15 | 5.92 |
| 1/1 | 0/1 | 6.06 | 2.99 |
| 0/1 | 1/1 | 6.83 | 6.6 |
| 1/1 | 1/1 | 5.39 | 5.21 |
| 1/1 | 1/1 | 6.56 | 6.41 |
| 1/1 | 1/1 | 6.77 | 6.92 |
| 1/1 | 1/1 | 7.06 | 8.25 |
| 1/1 | 1/1 | 8.64 | 9.88 |
| 1/1 | 1/1 | 3.64 | 5.02 |
| 1/1 | 1/1 | 6.64 | 8.05 |
| 1/1 | 1/1 | 4.79 | 6.52 |
| 1/1 | 1/1 | 4.24 | 7.16 |
| 1/1 | 1/1 | 6.25 | 4.92 |
| 1/1 | 1/1 | 4.4 | 3.62 |
| 1/1 | 1/1 | 7.36 | 6.71 |
| 1/1 | 1/1 | 9.21 | 6.93 |
| 1/1 | 1/1 | 5.9 | 4.26 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.23 | 4.59 |
| 0/1 | 1/1 | 2.33 | 2.88 |
| 1/1 | 1/1 | 3.22 | 3.78 |
| 1/1 | 1/1 | 2.17 | 2.1 |
| 1/1 | 1/1 | 5.91 | 6.32 |
| 0/1 | 1/1 | 6.83 | 7.33 |
| 1/1 | 1/1 | 7.39 | 7.97 |
| 1/1 | 1/1 | 6.49 | 9.35 |
| 1/1 | 1/1 | 4.78 | 7.89 |
| 1/1 | 0/1 | 3.64 | 1.96 |
| 1/1 | 0/1 | 3.9 | 2.72 |
| 1/1 | 1/1 | 11.69 | 10.56 |
| 0/1 | 1/1 | 3.68 | 4.9 |
| 1/1 | 1/1 | 5.31 | 3.77 |
| 1/1 | 1/1 | 3.45 | 5.19 |
| 1/1 | 1/1 | 5.85 | 4.76 |
| 1/1 | 1/1 | 5.97 | 5.25 |
| 1/1 | 1/1 | 4.8 | 4.19 |
| 1/1 | 1/1 | 4.31 | 6.1 |
| 1/1 | 1/1 | 5.58 | 4.2 |
| 1/1 | 1/1 | 6.03 | 4.93 |
| 1/1 | 1/1 | 5.85 | 5.06 |
| 1/1 | 1/1 | 4.98 | 6.59 |
| 1/1 | 1/1 | 4.3 | 6.11 |
| 1/1 | 1/1 | 5.25 | 4.8 |
| 1/1 | 1/1 | 6.05 | 5.96 |
| 1/1 | 1/1 | 6.52 | 6.46 |
| 1/1 | 1/1 | 4.75 | 4.7 |
| 1/1 | 1/1 | 6.41 | 6.38 |
| 1/1 | 1/1 | 8.08 | 8.08 |
| 1/1 | 1/1 | 4.17 | 4.4 |
| 1/1 | 1/1 | 5.33 | 7.66 |
| 1/1 | 0/1 | 4.84 | 2.3 |
| 1/1 | 0/1 | 4.35 | 1.97 |
| 1/1 | 1/1 | 6.18 | 4.2 |
| 1/1 | 0/1 | 5.37 | 3.48 |
| 1/1 | 1/1 | 4.21 | 2.83 |
| 1/1 | 1/1 | 6.64 | 3.82 |
| 1/1 | 0/1 | 5.84 | 3.48 |
| 1/1 | 1/1 | 7.81 | 7.97 |
| 1/1 | 1/1 | 7.25 | 4.46 |
| 1/1 | 1/1 | 5.48 | 3.1 |
| 1/1 | 1/1 | 8.1 | 6.05 |
| 1/1 | 0/1 | 3.99 | 2.75 |
| 1/1 | 1/1 | 5.55 | 4.56 |
| 1/1 | 0/1 | 7.3 | 5.43 |
| 1/1 | 0/1 | 6.9 | 5.31 |
| 1/1 | 1/1 | 8.35 | 6.79 |
| 1/1 | 1/1 | 6.33 | 5.11 |
| 1/1 | 0/1 | 5.81 | 4.69 |
| 1/1 | 1/1 | 6.42 | 3.54 |
| 1/1 | 1/1 | 8.26 | 5.47 |
| 1/1 | 1/1 | 7.89 | 7.94 |
| 1/1 | 1/1 | 7.45 | 7.54 |
| 1/1 | 1/1 | 9.45 | 8.91 |
| 1/1 | 1/1 | 7.44 | 7.01 |
| 1/1 | 1/1 | 6.18 | 5.85 |
| 1/1 | 1/1 | 3.89 | 3.85 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.17 | 4.13 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 1/1 | 1/1 | 6.01 | 6.1 |
| 0/1 | 1/1 | 2.74 | 5.86 |
| 1/1 | 1/1 | 10.65 | 9.83 |
| 1/1 | 0/1 | 5.08 | 4.36 |
| 1/1 | 1/1 | 2.78 | 2.2 |
| 1/1 | 1/1 | 3.62 | 3.22 |
| 1/1 | 1/1 | 4.22 | 3.91 |
| 1/1 | 0/1 | 2.39 | 2.09 |
| 1/1 | 1/1 | 7.16 | 6.96 |
| 1/1 | 1/1 | 5.16 | 5.04 |
| 1/1 | 1/1 | 8.5 | 8.38 |
| 0/1 | 1/1 | 3.63 | 5.78 |
| 1/1 | 1/1 | 3.63 | 6.28 |
| 1/1 | 0/1 | 4.56 | 2.8 |
| 1/1 | 1/1 | 7.07 | 6 |
| 1/1 | 1/1 | 3.46 | 4.54 |
| 1/1 | 0/1 | 3.58 | 2.4 |
| 1/1 | 0/1 | 3.58 | 2.51 |
| 1/1 | 1/1 | 6.09 | 5.18 |
| 1/1 | 1/1 | 3.86 | 3.25 |
| 1/1 | 1/1 | 6.15 | 5.65 |
| 1/1 | 1/1 | 5.22 | 4.81 |
| 1/1 | 1/1 | 3.42 | 5.14 |
| 1/1 | 1/1 | 4.34 | 3.29 |
| 1/1 | 1/1 | 10.15 | 9.34 |
| 1/1 | 1/1 | 11.17 | 10.44 |
| 1/1 | 1/1 | 3.4 | 2.91 |
| 0/1 | 1/1 | 4.38 | 6.21 |
| 0/1 | 1/1 | 3.42 | 5.9 |
| 1/1 | 0/1 | 4.65 | 3.17 |
| 1/1 | 1/1 | 6.84 | 5.94 |
| 1/1 | 1/1 | 9.98 | 9.29 |
| 1/1 | 1/1 | 2.66 | 2.27 |
| 0/1 | 1/1 | 4.68 | 4.35 |
| 1/1 | 1/1 | 6.84 | 6.72 |
| 1/1 | 1/1 | 3.17 | 3.11 |
| 1/1 | 0/1 | 5.38 | 4.24 |
| 1/1 | 1/1 | 7.97 | 6.88 |
| 1/1 | 1/1 | 7.44 | 6.49 |
| 1/1 | 1/1 | 5.5 | 4.75 |
| 1/1 | 1/1 | 9.47 | 8.8 |
| 1/1 | 1/1 | 7.2 | 6.7 |
| 1/1 | 1/1 | 7.86 | 7.41 |
| 1/1 | 1/1 | 4.78 | 6.44 |
| 1/1 | 1/1 | 5.35 | 7.18 |
| 1/1 | 1/1 | 5.36 | 7.21 |
| 1/1 | 1/1 | 4.51 | 6.55 |
| 1/1 | 1/1 | 4.75 | 6.98 |
| 1/1 | 1/1 | 5.19 | 3.73 |
| 1/1 | 0/1 | 3.45 | 2.52 |
| 1/1 | 1/1 | 9.33 | 8.44 |
| 1/1 | 1/1 | 6 | 5.27 |
| 0/1 | 1/1 | 3.19 | 4.76 |
| 0/1 | 1/1 | 2.85 | 4.55 |
| 0/1 | 1/1 | 2.6 | 4.89 |
| 1/1 | 1/1 | 6.07 | 4.39 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.7 | 3.77 |
| 1/1 | 1/1 | 4.16 | 3.61 |
| 1/1 | 1/1 | 5.53 | 5.21 |
| 1/1 | 1/1 | 5.98 | 5.72 |
| 1/1 | 1/1 | 3.68 | 3.71 |
| 1/1 | 1/1 | 4.63 | 4.78 |
| 1/1 | 1/1 | 4.25 | 3.44 |
| 1/1 | 1/1 | 6.47 | 5.74 |
| 1/1 | 1/1 | 3.33 | 2.68 |
| 1/1 | 1/1 | 3.98 | 3.45 |
| 0/1 | 1/1 | 6.89 | 6.53 |
| 1/1 | 1/1 | 3.01 | 2.66 |
| 1/1 | 1/1 | 8.37 | 8.07 |
| 1/1 | 1/1 | 5.75 | 5.46 |
| 1/1 | 1/1 | 9.3 | 9.02 |
| 1/1 | 1/1 | 4.26 | 4 |
| 1/1 | 1/1 | 10 | 9.76 |
| 1/1 | 1/1 | 4 | 3.79 |
| 1/1 | 1/1 | 3.97 | 3.78 |
| 1/1 | 1/1 | 6.36 | 6.21 |
| 1/1 | 1/1 | 6.51 | 6.37 |
| 1/1 | 1/1 | 7.03 | 6.55 |
| 1/1 | 1/1 | 8.31 | 8.21 |
| 0/1 | 1/1 | 6.63 | 6.59 |
| 0/1 | 1/1 | 4.86 | 4.89 |
| 1/1 | 1/1 | 4.77 | 4.88 |
| 1/1 | 1/1 | 7.16 | 7.32 |
| 1/1 | 1/1 | 6.14 | 6.32 |
| 1/1 | 1/1 | 7.64 | 7.87 |
| 1/1 | 1/1 | 7.9 | 8.13 |
| 1/1 | 1/1 | 5.86 | 8.25 |
| 1/1 | 1/1 | 5.98 | 8.45 |
| 1/1 | 1/1 | 6.97 | 4.41 |
| 1/1 | 1/1 | 7.32 | 5.5 |
| 1/1 | 1/1 | 4.22 | 4.5 |
| 0/1 | 1/1 | 2.77 | 3.16 |
| 1/1 | 1/1 | 8.13 | 4.63 |
| 1/1 | 0/1 | 5.65 | 2.45 |
| 1/1 | 1/1 | 9.57 | 6.47 |
| 1/1 | 1/1 | 7.77 | 4.76 |
| 1/1 | 0/1 | 5.44 | 2.5 |
| 1/1 | 1/1 | 8.03 | 5.09 |
| 1/1 | 0/1 | 5.09 | 2.21 |
| 1/1 | 1/1 | 10.2 | 7.33 |
| 1/1 | 1/1 | 8.45 | 5.61 |
| 1/1 | 1/1 | 9.25 | 6.42 |
| 1/1 | 1/1 | 7.72 | 4.95 |
| 1/1 | 1/1 | 9.21 | 6.46 |
| 1/1 | 0/1 | 4.09 | 3.44 |
| 1/1 | 1/1 | 10.84 | 10.2 |
| 1/1 | 1/1 | 6.65 | 6.05 |
| 1/1 | 1/1 | 7.5 | 6.93 |
| 1/1 | 1/1 | 10.85 | 10.3 |
| 1/1 | 1/1 | 8.1 | 7.56 |
| 1/1 | 1/1 | 7.39 | 6.9 |
| 1/1 | 1/1 | 6.29 | 5.82 |
| 1/1 | 1/1 | 5.52 | 5.06 |
| 1/1 | 1/1 | 7.11 | 6.67 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.11 | 5.67 |
| 1/1 | 1/1 | 6.22 | 5.82 |
| 1/1 | 1/1 | 7.27 | 6.88 |
| 0/1 | 1/1 | 4.32 | 3.98 |
| 1/1 | 1/1 | 7.35 | 7.03 |
| 1/1 | 1/1 | 6.74 | 6.42 |
| 1/1 | 1/1 | 7.04 | 6.72 |
| 1/1 | 1/1 | 5.86 | 5.56 |
| 1/1 | 1/1 | 6.69 | 6.39 |
| 1/1 | 1/1 | 9.5 | 9.21 |
| 1/1 | 1/1 | 8.29 | 8.02 |
| 1/1 | 1/1 | 6.53 | 6.3 |
| 1/1 | 1/1 | 10.92 | 10.78 |
| 1/1 | 1/1 | 7.82 | 7.85 |
| 1/1 | 1/1 | 6.14 | 6.23 |
| 1/1 | 1/1 | 6.36 | 6.5 |
| 1/1 | 1/1 | 7.09 | 7.55 |
| 1/1 | 1/1 | 4.78 | 5.34 |
| 0/1 | 1/1 | 3.6 | 4.23 |
| 0/1 | 1/1 | 3.67 | 4.74 |
| 1/1 | 1/1 | 5.43 | 4.69 |
| 1/1 | 1/1 | 10.6 | 10.06 |
| 1/1 | 0/1 | 3.38 | 3.03 |
| 0/1 | 1/1 | 6.19 | 6 |
| 1/1 | 1/1 | 5.99 | 5.97 |
| 1/1 | 1/1 | 4.53 | 6.61 |
| 1/1 | 1/1 | 4.74 | 7.13 |
| 1/1 | 1/1 | 6.67 | 6.47 |
| 1/1 | 1/1 | 8.55 | 8.34 |
| 0/1 | 1/1 | 6.18 | 6.05 |
| 1/1 | 1/1 | 11 | 11.16 |
| 1/1 | 1/1 | 8.85 | 9.17 |
| 0/1 | 1/1 | 7.18 | 7.53 |
| 0/1 | 1/1 | 8.17 | 8.65 |
| 1/1 | 1/1 | 4.92 | 4.74 |
| 1/1 | 1/1 | 6.67 | 6.74 |
| 1/1 | 1/1 | 8.29 | 8.86 |
| 1/1 | 1/1 | 8.07 | 7.16 |
| 0/1 | 1/1 | 6.02 | 5.43 |
| 1/1 | 1/1 | 7.44 | 7.24 |
| 1/1 | 1/1 | 7.04 | 3.72 |
| 1/1 | 1/1 | 8.34 | 5.34 |
| 1/1 | 1/1 | 6.83 | 4.2 |
| 1/1 | 1/1 | 8.44 | 7.87 |
| 1/1 | 0/1 | 3.8 | 3.32 |
| 1/1 | 1/1 | 8.37 | 8.05 |
| 1/1 | 1/1 | 9.49 | 9.18 |
| 1/1 | 1/1 | 6.84 | 6.63 |
| 1/1 | 1/1 | 3.35 | 3.35 |
| 0/1 | 1/1 | 1.9 | 2.26 |
| 1/1 | 1/1 | 6.93 | 5.84 |
| 1/1 | 1/1 | 6.71 | 6.26 |
| 1/1 | 1/1 | 4.22 | 3.87 |
| 1/1 | 1/1 | 3.96 | 5.71 |
| 1/1 | 1/1 | 4.14 | 3.15 |
| 1/1 | 1/1 | 4.91 | 4.2 |
| 1/1 | 1/1 | 7.47 | 7.15 |
| 1/1 | 1/1 | 7.5 | 7.23 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.87 | 4.63 |
| 0/1 | 1/1 | 2.98 | 3.91 |
| 1/1 | 1/1 | 5.73 | 4.03 |
| 1/1 | 1/1 | 6.14 | 5.11 |
| 1/1 | 0/1 | 4.44 | 2.08 |
| 0/1 | 1/1 | 2.06 | 2.65 |
| 1/1 | 1/1 | 5.75 | 4.55 |
| 1/1 | 1/1 | 5.88 | 5.13 |
| 1/1 | 0/1 | 4.25 | 3.06 |
| 1/1 | 1/1 | 7.35 | 6.85 |
| 0/1 | 1/1 | 2.69 | 4.89 |
| 0/1 | 1/1 | 3.57 | 5.78 |
| 1/1 | 0/1 | 5.83 | 3.07 |
| 1/1 | 1/1 | 2.92 | 2.95 |
| 0/1 | 1/1 | 2.56 | 2.68 |
| 0/1 | 1/1 | 3.97 | 4.16 |
| 1/1 | 0/1 | 7.02 | 5.8 |
| 1/1 | 0/1 | 3.05 | 2.28 |
| 1/1 | 1/1 | 6.04 | 5.5 |
| 1/1 | 1/1 | 6.48 | 6.16 |
| 1/1 | 1/1 | 9.32 | 9.15 |
| 1/1 | 1/1 | 6.97 | 6.87 |
| 1/1 | 1/1 | 6.38 | 6.48 |
| 0/1 | 1/1 | 5.4 | 5.57 |
| 1/1 | 0/1 | 2.93 | 1.9 |
| 1/1 | 1/1 | 8.79 | 8.45 |
| 0/1 | 1/1 | 3.38 | 3.03 |
| 1/1 | 1/1 | 8.88 | 6.96 |
| 1/1 | 0/1 | 3.97 | 2.73 |
| 1/1 | 1/1 | 7.79 | 8.77 |
| 0/1 | 1/1 | 2.2 | 3.73 |
| 1/1 | 1/1 | 6.8 | 4.42 |
| 1/1 | 0/1 | 5.86 | 3.95 |
| 0/1 | 1/1 | 3.08 | 3.53 |
| 0/1 | 1/1 | 3.01 | 3.6 |
| 1/1 | 1/1 | 5.86 | 4.54 |
| 1/1 | 1/1 | 4.55 | 3.67 |
| 1/1 | 1/1 | 4.67 | 3.28 |
| 1/1 | 1/1 | 6.23 | 4.97 |
| 1/1 | 0/1 | 3.95 | 2.38 |
| 1/1 | 1/1 | 5.95 | 4.74 |
| 1/1 | 1/1 | 3.99 | 2.9 |
| 1/1 | 1/1 | 4.83 | 3.78 |
| 1/1 | 1/1 | 3.49 | 4.75 |
| 0/1 | 1/1 | 2.95 | 4.32 |
| 0/1 | 1/1 | 3.14 | 4.58 |
| 1/1 | 1/1 | 8.67 | 6.27 |
| 1/1 | 1/1 | 6.61 | 6.95 |
| 1/1 | 1/1 | 6.84 | 7.28 |
| 1/1 | 1/1 | 7.32 | 6.94 |
| 1/1 | 1/1 | 7.77 | 7.53 |
| 1/1 | 1/1 | 5.72 | 5.54 |
| 1/1 | 1/1 | 4.49 | 4.39 |
| 1/1 | 1/1 | 5.93 | 5.83 |
| 0/1 | 1/1 | 4.28 | 4.24 |
| 0/1 | 1/1 | 4.37 | 4.37 |
| 1/1 | 1/1 | 5.44 | 5.45 |
| 1/1 | 1/1 | 10.77 | 10.91 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 9.56 | 9.73 |
| 1/1 | 1/1 | 10.1 | 10.28 |
| 1/1 | 1/1 | 9.56 | 9.75 |
| 0/1 | 1/1 | 3.92 | 6.53 |
| 1/1 | 0/1 | 7.86 | 6.26 |
| 1/1 | 0/1 | 3.7 | 2.32 |
| 1/1 | 1/1 | 5.81 | 4.94 |
| 1/1 | 1/1 | 4.99 | 6.32 |
| 0/1 | 1/1 | 4.07 | 5.4 |
| 1/1 | 1/1 | 9.84 | 9.5 |
| 1/1 | 1/1 | 7.87 | 7.94 |
| 0/1 | 1/1 | 9.94 | 10.22 |
| 1/1 | 1/1 | 7.87 | 6.09 |
| 1/1 | 1/1 | 6.09 | 4.48 |
| 1/1 | 1/1 | 8.82 | 7.58 |
| 1/1 | 1/1 | 7.01 | 8.21 |
| 0/1 | 1/1 | 3.34 | 4.55 |
| 1/1 | 1/1 | 5.78 | 4.17 |
| 1/1 | 0/1 | 3.87 | 2.46 |
| 1/1 | 1/1 | 5.38 | 4.14 |
| 1/1 | 0/1 | 5.01 | 3.88 |
| 1/1 | 1/1 | 5.47 | 4.54 |
| 0/1 | 1/1 | 2.13 | 3.37 |
| 1/1 | 1/1 | 4.05 | 6.09 |
| 1/1 | 0/1 | 3.95 | 2.52 |
| 1/1 | 1/1 | 6.2 | 5.44 |
| 1/1 | 1/1 | 5.42 | 4.68 |
| 0/1 | 1/1 | 2.19 | 3.91 |
| 1/1 | 1/1 | 11.32 | 10.01 |
| 1/1 | 1/1 | 8.38 | 7.17 |
| 1/1 | 1/1 | 6.77 | 5.82 |
| 1/1 | 0/1 | 2.9 | 2.08 |
| 1/1 | 1/1 | 8.27 | 7.45 |
| 1/1 | 0/1 | 4.34 | 3.55 |
| 1/1 | 1/1 | 7.17 | 6.38 |
| 1/1 | 1/1 | 5.45 | 4.79 |
| 1/1 | 1/1 | 6.47 | 5.89 |
| 1/1 | 1/1 | 9.89 | 9.31 |
| 1/1 | 1/1 | 6.22 | 5.66 |
| 1/1 | 1/1 | 7.81 | 7.32 |
| 0/1 | 1/1 | 5.64 | 5.38 |
| 0/1 | 1/1 | 6.05 | 5.83 |
| 1/1 | 1/1 | 5.48 | 5.33 |
| 1/1 | 1/1 | 6.7 | 6.71 |
| 1/1 | 0/1 | 5.04 | 3.51 |
| 1/1 | 1/1 | 5.47 | 4.32 |
| 1/1 | 1/1 | 5.98 | 3.59 |
| 1/1 | 1/1 | 8.15 | 5.85 |
| 1/1 | 1/1 | 4.74 | 5.67 |
| 1/1 | 1/1 | 6.48 | 3.89 |
| 1/1 | 1/1 | 4.41 | 4.56 |
| 1/1 | 1/1 | 3.49 | 3.81 |
| 0/1 | 1/1 | 1.93 | 2.45 |
| 1/1 | 1/1 | 9.92 | 10.52 |
| 0/1 | 1/1 | 2.6 | 3.82 |
| 1/1 | 1/1 | 6.45 | 3.6 |
| 1/1 | 1/1 | 5.48 | 2.7 |
| 1/1 | 1/1 | 6.32 | 4.12 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.52 | 9.45 |
| 1/1 | 1/1 | 12.25 | 12.22 |
| 1/1 | 1/1 | 2.83 | 2.83 |
| 1/1 | 1/1 | 5.87 | 5.88 |
| 1/1 | 1/1 | 4.9 | 3.63 |
| 1/1 | 1/1 | 8.61 | 7.42 |
| 1/1 | 1/1 | 6.34 | 5.51 |
| 1/1 | 1/1 | 5.14 | 4.31 |
| 1/1 | 1/1 | 3.96 | 3.16 |
| 1/1 | 1/1 | 3.9 | 3.16 |
| 1/1 | 1/1 | 11.39 | 10.66 |
| 1/1 | 1/1 | 5.02 | 4.36 |
| 1/1 | 1/1 | 4.12 | 3.51 |
| 1/1 | 1/1 | 6.17 | 5.6 |
| 0/1 | 1/1 | 4.21 | 5.8 |
| 1/1 | 1/1 | 5.65 | 7.35 |
| 1/1 | 1/1 | 4.36 | 6.06 |
| 1/1 | 1/1 | 8.37 | 6.64 |
| 1/1 | 0/1 | 4.3 | 2.67 |
| 1/1 | 1/1 | 8.53 | 6.94 |
| 1/1 | 1/1 | 9.02 | 7.5 |
| 1/1 | 1/1 | 7.83 | 6.32 |
| 1/1 | 1/1 | 8.4 | 7.26 |
| 1/1 | 1/1 | 11.03 | 9.9 |
| 1/1 | 1/1 | 5.13 | 6.14 |
| 1/1 | 1/1 | 6.68 | 7.69 |
| 1/1 | 1/1 | 6.17 | 7.23 |
| 1/1 | 1/1 | 5.13 | 6.2 |
| 0/1 | 1/1 | 3.19 | 4.29 |
| 1/1 | 1/1 | 6.17 | 7.31 |
| 1/1 | 1/1 | 4 | 5.27 |
| 1/1 | 1/1 | 4.95 | 6.4 |
| 1/1 | 0/1 | 4.69 | 2.41 |
| 1/1 | 0/1 | 5.82 | 3.8 |
| 1/1 | 0/1 | 4.83 | 3.19 |
| 1/1 | 1/1 | 8 | 8.65 |
| 1/1 | 1/1 | 2.94 | 3.67 |
| 1/1 | 1/1 | 8.6 | 9.55 |
| 1/1 | 0/1 | 5.4 | 2.93 |
| 1/1 | 1/1 | 5.95 | 7.04 |
| 1/1 | 0/1 | 6.29 | 5.4 |
| 1/1 | 1/1 | 9.13 | 8.57 |
| 1/1 | 1/1 | 5.72 | 5.24 |
| 1/1 | 1/1 | 5.89 | 5.43 |
| 1/1 | 0/1 | 4.94 | 4.48 |
| 1/1 | 1/1 | 6.78 | 6.38 |
| 1/1 | 1/1 | 6.38 | 6.01 |
| 1/1 | 1/1 | 4.43 | 4.18 |
| 1/1 | 1/1 | 9.83 | 9.63 |
| 0/1 | 1/1 | 8.31 | 8.13 |
| 1/1 | 1/1 | 9.85 | 8.89 |
| 1/1 | 1/1 | 6.74 | 5.96 |
| 1/1 | 1/1 | 6.31 | 6.02 |
| 0/1 | 1/1 | 2.36 | 2.1 |
| 1/1 | 1/1 | 4.4 | 4.15 |
| 1/1 | 1/1 | 2.97 | 4.85 |
| 1/1 | 1/1 | 4.55 | 4.6 |
| 1/1 | 1/1 | 3.32 | 3.57 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.05 | 5.66 |
| 1/1 | 1/1 | 9.39 | 10.02 |
| 1/1 | 1/1 | 9.62 | 7.11 |
| 0/1 | 1/1 | 2.75 | 3.22 |
| 1/1 | 1/1 | 4.97 | 5.51 |
| 0/1 | 1/1 | 1.96 | 2.75 |
| 1/1 | 1/1 | 5.34 | 4.46 |
| 1/1 | 1/1 | 5.5 | 4.8 |
| 1/1 | 1/1 | 4.1 | 3.77 |
| 1/1 | 1/1 | 5.98 | 5.79 |
| 1/1 | 1/1 | 5.53 | 5.33 |
| 1/1 | 1/1 | 4.29 | 6.23 |
| 0/1 | 1/1 | 2.86 | 4.84 |
| 1/1 | 1/1 | 8.62 | 8.31 |
| 1/1 | 1/1 | 4.17 | 4.08 |
| 1/1 | 1/1 | 8.8 | 8.81 |
| 1/1 | 1/1 | 8.1 | 8.39 |
| 1/1 | 1/1 | 6.12 | 8.56 |
| 1/1 | 1/1 | 6.28 | 8.79 |
| 1/1 | 1/1 | 5.28 | 8.26 |
| 1/1 | 0/1 | 6.63 | 5.09 |
| 1/1 | 1/1 | 4.5 | 5.75 |
| 1/1 | 1/1 | 5.47 | 6.74 |
| 0/1 | 1/1 | 4.71 | 5.98 |
| 0/1 | 1/1 | 4.02 | 5.35 |
| 1/1 | 1/1 | 4.67 | 6.13 |
| 1/1 | 1/1 | 4.65 | 6.57 |
| 1/1 | 1/1 | 5.51 | 4.81 |
| 1/1 | 1/1 | 6.12 | 5.87 |
| 1/1 | 1/1 | 9.84 | 9.72 |
| 1/1 | 1/1 | 6.72 | 6.63 |
| 1/1 | 1/1 | 7.79 | 7.81 |
| 1/1 | 0/1 | 4.8 | 2.51 |
| 1/1 | 1/1 | 5.76 | 4 |
| 1/1 | 1/1 | 5.12 | 3.51 |
| 0/1 | 1/1 | 2.11 | 2.61 |
| 0/1 | 1/1 | 2.2 | 2.72 |
| 0/1 | 1/1 | 3.95 | 4.67 |
| 1/1 | 1/1 | 4.82 | 4.58 |
| 1/1 | 1/1 | 10.85 | 10.82 |
| 1/1 | 1/1 | 7.27 | 7.52 |
| 1/1 | 1/1 | 5.44 | 5.88 |
| 1/1 | 1/1 | 8.86 | 7.24 |
| 1/1 | 1/1 | 10.72 | 9.81 |
| 1/1 | 1/1 | 5.98 | 7.32 |
| 1/1 | 1/1 | 7.45 | 9.04 |
| 0/1 | 1/1 | 3.16 | 5.23 |
| 1/1 | 1/1 | 9.24 | 7.74 |
| 0/1 | 1/1 | 2.66 | 3.98 |
| 1/1 | 1/1 | 3.61 | 5.15 |
| 1/1 | 0/1 | 4.76 | 3.16 |
| 1/1 | 1/1 | 3.3 | 4.64 |
| 0/1 | 1/1 | 4.9 | 6.26 |
| 0/1 | 1/1 | 2.56 | 4.62 |
| 1/1 | 0/1 | 3.47 | 2.09 |
| 1/1 | 1/1 | 7.11 | 5.98 |
| 1/1 | 0/1 | 3.38 | 2.64 |
| 1/1 | 1/1 | 10.03 | 9.33 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.9 | 10.24 |
| 1/1 | 1/1 | 5.55 | 4.91 |
| 1/1 | 1/1 | 5.99 | 5.73 |
| 0/1 | 1/1 | 5.1 | 4.84 |
| 0/1 | 1/1 | 8.14 | 7.91 |
| 1/1 | 1/1 | 8.48 | 8.52 |
| 0/1 | 1/1 | 5.13 | 7.41 |
| 1/1 | 1/1 | 4.97 | 7.5 |
| 1/1 | 1/1 | 5.2 | 7.79 |
| 1/1 | 1/1 | 5.12 | 7.84 |
| 1/1 | 0/1 | 6.29 | 4.56 |
| 1/1 | 1/1 | 2.96 | 4.69 |
| 0/1 | 1/1 | 2.46 | 4.53 |
| 1/1 | 1/1 | 6.07 | 3.58 |
| 1/1 | 1/1 | 3.14 | 3.42 |
| 0/1 | 1/1 | 4.35 | 5.6 |
| 1/1 | 0/1 | 5.99 | 3.63 |
| 1/1 | 0/1 | 5.92 | 4.22 |
| 1/1 | 0/1 | 4.37 | 2.12 |
| 1/1 | 0/1 | 6.71 | 4.66 |
| 1/1 | 1/1 | 5.85 | 4.29 |
| 1/1 | 1/1 | 3.87 | 3.55 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 0/1 | 1/1 | 4.09 | 3.96 |
| 1/1 | 1/1 | 8.79 | 8.72 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 1/1 | 1/1 | 7.48 | 7.67 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 0/1 | 1/1 | 4.84 | 5.08 |
| 1/1 | 1/1 | 5.72 | 6.03 |
| 1/1 | 1/1 | 7.44 | 7.79 |
| 1/1 | 1/1 | 6.6 | 7 |
| 1/1 | 1/1 | 6.36 | 4.88 |
| 0/1 | 1/1 | 4.31 | 5.67 |
| 1/1 | 1/1 | 3.74 | 5.29 |
| 1/1 | 1/1 | 4.85 | 3.54 |
| 1/1 | 1/1 | 3.42 | 2.84 |
| 1/1 | 1/1 | 6.81 | 6.23 |
| 1/1 | 1/1 | 7.91 | 7.36 |
| 1/1 | 1/1 | 9.52 | 9.22 |
| 1/1 | 1/1 | 3.9 | 3.67 |
| 1/1 | 1/1 | 6.39 | 6.31 |
| 1/1 | 1/1 | 7.61 | 7.6 |
| 1/1 | 1/1 | 5.01 | 5.1 |
| 1/1 | 1/1 | 6.4 | 6.51 |
| 1/1 | 1/1 | 7.19 | 4.46 |
| 1/1 | 1/1 | 6.6 | 4.13 |
| 1/1 | 0/1 | 5.41 | 2.97 |
| 1/1 | 1/1 | 8.07 | 6.04 |
| 1/1 | 1/1 | 6.09 | 6.1 |
| 1/1 | 1/1 | 3.67 | 3.7 |
| 1/1 | 1/1 | 2.19 | 2.24 |
| 0/1 | 1/1 | 3.23 | 3.28 |
| 1/1 | 1/1 | 4.52 | 4.61 |
| 1/1 | 1/1 | 5.4 | 5.5 |
| 1/1 | 1/1 | 3.62 | 3.79 |
| 1/1 | 1/1 | 7.91 | 7.24 |
| 1/1 | 1/1 | 6.54 | 6.38 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 6.53 | 6.44 |
| 1/1 | 1/1 | 7.89 | 7.88 |
| 1/1 | 1/1 | 8.94 | 8.03 |
| 1/1 | 1/1 | 9.03 | 8.51 |
| 1/1 | 1/1 | 5.77 | 5.35 |
| 1/1 | 1/1 | 13.15 | 12.8 |
| 1/1 | 1/1 | 5.37 | 7.33 |
| 1/1 | 1/1 | 6.72 | 3.44 |
| 1/1 | 0/1 | 6.19 | 3.09 |
| 1/1 | 1/1 | 6.61 | 3.95 |
| 1/1 | 1/1 | 3.99 | 3.5 |
| 1/1 | 1/1 | 2.96 | 2.52 |
| 0/1 | 1/1 | 4.23 | 3.82 |
| 1/1 | 0/1 | 2.72 | 2.33 |
| 1/1 | 1/1 | 5.57 | 5.21 |
| 1/1 | 1/1 | 3.92 | 3.58 |
| 1/1 | 1/1 | 7.42 | 7.2 |
| 1/1 | 1/1 | 8.91 | 8.72 |
| 1/1 | 1/1 | 7.08 | 7.08 |
| 1/1 | 0/1 | 2.62 | 2.64 |
| 1/1 | 0/1 | 4.43 | 3.35 |
| 1/1 | 0/1 | 3.71 | 3.02 |
| 1/1 | 0/1 | 2.69 | 2.24 |
| 1/1 | 1/1 | 6.87 | 6.49 |
| 0/1 | 1/1 | 3.23 | 5.11 |
| 1/1 | 1/1 | 8.08 | 3.61 |
| 1/1 | 0/1 | 5.85 | 2.03 |
| 1/1 | 1/1 | 6.01 | 4.56 |
| 1/1 | 1/1 | 5.92 | 5.06 |
| 1/1 | 1/1 | 8.74 | 8.05 |
| 1/1 | 1/1 | 2.74 | 2.42 |
| 1/1 | 1/1 | 8.92 | 8.67 |
| 1/1 | 1/1 | 5.7 | 5.65 |
| 1/1 | 1/1 | 8.62 | 8.44 |
| 1/1 | 1/1 | 6.79 | 6.74 |
| 1/1 | 1/1 | 4.45 | 4.43 |
| 1/1 | 1/1 | 6.42 | 6.47 |
| 1/1 | 1/1 | 7.49 | 7.54 |
| 1/1 | 1/1 | 7.82 | 7.95 |
| 1/1 | 1/1 | 2.86 | 3.09 |
| 0/1 | 1/1 | 2.43 | 2.8 |
| 1/1 | 1/1 | 7.75 | 8.22 |
| 0/1 | 1/1 | 5.17 | 5.65 |
| 1/1 | 1/1 | 7.21 | 5.24 |
| 1/1 | 1/1 | 7.1 | 5.25 |
| 1/1 | 0/1 | 4.27 | 2.95 |
| 0/1 | 1/1 | 2.46 | 4.35 |
| 1/1 | 1/1 | 5.2 | 3.62 |
| 1/1 | 1/1 | 5.46 | 4.1 |
| 1/1 | 0/1 | 3.62 | 2.3 |
| 1/1 | 1/1 | 5.63 | 5.1 |
| 1/1 | 1/1 | 9.48 | 9 |
| 1/1 | 1/1 | 5.03 | 4.61 |
| 1/1 | 1/1 | 8.55 | 8.13 |
| 1/1 | 1/1 | 9.93 | 9.66 |
| 1/1 | 1/1 | 8.13 | 7.92 |
| 1/1 | 1/1 | 7.27 | 7.07 |
| 1/1 | 1/1 | 7.38 | 7.37 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.17 | 6.25 |
| 1/1 | 0/1 | 5.44 | 3.67 |
| 1/1 | 0/1 | 3.92 | 2.61 |
| 1/1 | 1/1 | 6.42 | 5.2 |
| 1/1 | 1/1 | 4.24 | 3.12 |
| 1/1 | 1/1 | 4 | 3.13 |
| 1/1 | 1/1 | 4.39 | 3.93 |
| 1/1 | 1/1 | 5.2 | 7.1 |
| 1/1 | 1/1 | 7.83 | 5.71 |
| 1/1 | 1/1 | 8.62 | 7.21 |
| 1/1 | 1/1 | 8.84 | 7.3 |
| 1/1 | 0/1 | 6.18 | 5.11 |
| 1/1 | 1/1 | 9.07 | 8.03 |
| 0/1 | 1/1 | 3.4 | 5.65 |
| 1/1 | 1/1 | 9.2 | 7.56 |
| 1/1 | 1/1 | 4.46 | 5.79 |
| 1/1 | 0/1 | 6.17 | 4.16 |
| 1/1 | 1/1 | 4.8 | 2.97 |
| 1/1 | 1/1 | 4.75 | 3.03 |
| 1/1 | 1/1 | 7.05 | 5.56 |
| 1/1 | 1/1 | 6.14 | 6.88 |
| 1/1 | 1/1 | 5.69 | 3.32 |
| 1/1 | 1/1 | 5.18 | 3.19 |
| 1/1 | 0/1 | 5.01 | 3.07 |
| 1/1 | 0/1 | 4.01 | 2.14 |
| 1/1 | 1/1 | 5.18 | 3.49 |
| 1/1 | 1/1 | 5.7 | 3.44 |
| 1/1 | 1/1 | 7.28 | 7.75 |
| 0/1 | 1/1 | 3.95 | 4.44 |
| 1/1 | 1/1 | 8.21 | 8.82 |
| 1/1 | 1/1 | 7.78 | 8.53 |
| 0/1 | 1/1 | 3.52 | 4.3 |
| 1/1 | 1/1 | 6.6 | 7.42 |
| 1/1 | 1/1 | 6.55 | 7.39 |
| 1/1 | 1/1 | 7.53 | 8.45 |
| 1/1 | 1/1 | 8.23 | 9.2 |
| 0/1 | 1/1 | 4.3 | 5.38 |
| 1/1 | 1/1 | 6.93 | 8.32 |
| 1/1 | 1/1 | 6.15 | 4.69 |
| 1/1 | 1/1 | 6.2 | 5.14 |
| 1/1 | 0/1 | 5.77 | 4.86 |
| 1/1 | 1/1 | 6.8 | 5.96 |
| 1/1 | 1/1 | 3.69 | 4.95 |
| 0/1 | 1/1 | 3.28 | 5.27 |
| 1/1 | 1/1 | 5.4 | 4.29 |
| 1/1 | 0/1 | 3.54 | 2.55 |
| 1/1 | 1/1 | 3.66 | 2.77 |
| 1/1 | 1/1 | 3.71 | 2.91 |
| 1/1 | 1/1 | 5.11 | 4.56 |
| 1/1 | 1/1 | 4.33 | 3.83 |
| 1/1 | 1/1 | 3.85 | 3.36 |
| 1/1 | 1/1 | 10.05 | 9.57 |
| 1/1 | 1/1 | 4.72 | 4.3 |
| 1/1 | 1/1 | 4.33 | 6.41 |
| 1/1 | 1/1 | 7.04 | 5.31 |
| 1/1 | 1/1 | 5.13 | 6.13 |
| 1/1 | 1/1 | 3.04 | 4.27 |
| 1/1 | 1/1 | 3.85 | 5.24 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 2.83 | 4.71 |
| 1/1 | 0/1 | 6.63 | 4.73 |
| 1/1 | 1/1 | 4.9 | 3.52 |
| 1/1 | 1/1 | 5.25 | 3.73 |
| 1/1 | 1/1 | 6.15 | 5.28 |
| 1/1 | 1/1 | 3.4 | 2.5 |
| 1/1 | 1/1 | 5.89 | 5.26 |
| 1/1 | 1/1 | 8.65 | 8.04 |
| 1/1 | 1/1 | 6.1 | 5.52 |
| 1/1 | 1/1 | 9.46 | 9.22 |
| 1/1 | 1/1 | 6.17 | 5.96 |
| 1/1 | 0/1 | 5.21 | 3.22 |
| 1/1 | 1/1 | 7.77 | 6.38 |
| 1/1 | 1/1 | 5.99 | 6.78 |
| 1/1 | 1/1 | 5.23 | 6.09 |
| 0/1 | 1/1 | 3.47 | 4.45 |
| 1/1 | 1/1 | 4.02 | 5.75 |
| 1/1 | 0/1 | 5.12 | 4.42 |
| 1/1 | 1/1 | 8.14 | 7.47 |
| 1/1 | 1/1 | 5.59 | 5.02 |
| 0/1 | 1/1 | 5.43 | 5.42 |
| 0/1 | 1/1 | 4.63 | 4.64 |
| 1/1 | 0/1 | 7.05 | 5.54 |
| 1/1 | 0/1 | 6.41 | 5.5 |
| 1/1 | 1/1 | 5.87 | 5.17 |
| 0/1 | 1/1 | 3.11 | 2.95 |
| 1/1 | 1/1 | 9.11 | 9.02 |
| 1/1 | 1/1 | 5.42 | 4.03 |
| 1/1 | 1/1 | 6.73 | 8.14 |
| 1/1 | 1/1 | 4.13 | 6.01 |
| 1/1 | 0/1 | 4.79 | 3.46 |
| 1/1 | 1/1 | 7.38 | 6.41 |
| 1/1 | 1/1 | 5.16 | 4.3 |
| 1/1 | 0/1 | 6.82 | 6.11 |
| 0/1 | 1/1 | 5.73 | 5.05 |
| 0/1 | 1/1 | 2.84 | 4.57 |
| 1/1 | 1/1 | 5.33 | 3.74 |
| 1/1 | 1/1 | 6.25 | 4.79 |
| 1/1 | 1/1 | 6.83 | 5.5 |
| 1/1 | 1/1 | 7.43 | 6.17 |
| 1/1 | 0/1 | 3.96 | 2.73 |
| 1/1 | 1/1 | 7.46 | 6.45 |
| 1/1 | 1/1 | 3.21 | 2.84 |
| 1/1 | 1/1 | 9.86 | 9.54 |
| 0/1 | 1/1 | 2.87 | 2.76 |
| 0/1 | 1/1 | 3.44 | 3.37 |
| 1/1 | 1/1 | 5.14 | 5.2 |
| 1/1 | 1/1 | 5.38 | 5.53 |
| 1/1 | 1/1 | 5.96 | 6.25 |
| 1/1 | 1/1 | 3.74 | 6.2 |
| 0/1 | 1/1 | 3.82 | 6.35 |
| 1/1 | 1/1 | 4.79 | 7.37 |
| 1/1 | 1/1 | 3.64 | 6.36 |
| 1/1 | 1/1 | 4.03 | 3.03 |
| 1/1 | 1/1 | 4.93 | 4.29 |
| 1/1 | 1/1 | 6.3 | 8.06 |
| 1/1 | 1/1 | 6.33 | 8.26 |
| 1/1 | 1/1 | 6.79 | 8.88 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.38 | 6.96 |
| 1/1 | 1/1 | 6.53 | 5.42 |
| 1/1 | 1/1 | 6.14 | 5.09 |
| 1/1 | 1/1 | 6.89 | 5.96 |
| 1/1 | 1/1 | 5.21 | 4.48 |
| 1/1 | 0/1 | 3.69 | 2.92 |
| 1/1 | 1/1 | 5.69 | 5.43 |
| 1/1 | 1/1 | 4.67 | 4.18 |
| 1/1 | 1/1 | 6.79 | 6.5 |
| 1/1 | 1/1 | 10.16 | 10 |
| 1/1 | 1/1 | 7.72 | 7.79 |
| 1/1 | 1/1 | 7.61 | 7.72 |
| 1/1 | 1/1 | 8.34 | 8.48 |
| 1/1 | 1/1 | 6.23 | 6.42 |
| 1/1 | 1/1 | 5.2 | 7.51 |
| 0/1 | 1/1 | 3.38 | 5.91 |
| 1/1 | 1/1 | 4.43 | 6.98 |
| 0/1 | 1/1 | 3.56 | 6.96 |
| 0/1 | 1/1 | 3 | 6.73 |
| 1/1 | 1/1 | 11.33 | 10.39 |
| 1/1 | 1/1 | 5.32 | 4.99 |
| 1/1 | 1/1 | 5.37 | 4.64 |
| 0/1 | 1/1 | 2.7 | 2.46 |
| 1/1 | 1/1 | 6.69 | 6.45 |
| 1/1 | 1/1 | 6.72 | 6.65 |
| 1/1 | 1/1 | 8.34 | 7.27 |
| 1/1 | 1/1 | 5.41 | 4.53 |
| 1/1 | 1/1 | 3.91 | 5.56 |
| 1/1 | 1/1 | 3.01 | 4.73 |
| 0/1 | 1/1 | 3.86 | 5.61 |
| 1/1 | 1/1 | 4.25 | 6.14 |
| 0/1 | 1/1 | 3.47 | 5.58 |
| 1/1 | 0/1 | 3.17 | 2.12 |
| 1/1 | 1/1 | 6.28 | 5.69 |
| 1/1 | 1/1 | 5.17 | 4.61 |
| 1/1 | 1/1 | 8.07 | 6.64 |
| 1/1 | 0/1 | 4.4 | 3.55 |
| 1/1 | 1/1 | 7.73 | 6.9 |
| 0/1 | 1/1 | 2.71 | 4.23 |
| 1/1 | 1/1 | 5.96 | 4.48 |
| 1/1 | 0/1 | 3.41 | 2.6 |
| 0/1 | 1/1 | 2.89 | 4.56 |
| 1/1 | 1/1 | 9.75 | 9.49 |
| 1/1 | 1/1 | 7 | 6.78 |
| 1/1 | 1/1 | 9.41 | 9.2 |
| 1/1 | 1/1 | 6.73 | 6.61 |
| 1/1 | 1/1 | 8.4 | 8.41 |
| 1/1 | 1/1 | 9.46 | 9.62 |
| 0/1 | 1/1 | 2.68 | 5.37 |
| 1/1 | 0/1 | 5.43 | 3.29 |
| 1/1 | 1/1 | 5.85 | 3.76 |
| 1/1 | 0/1 | 4.21 | 2.46 |
| 1/1 | 0/1 | 3.91 | 2.23 |
| 1/1 | 1/1 | 4.71 | 3.22 |
| 1/1 | 1/1 | 7 | 7.6 |
| 1/1 | 1/1 | 5.89 | 3.65 |
| 0/1 | 1/1 | 3.11 | 3.72 |
| 1/1 | 0/1 | 5.41 | 4.04 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.43 | 8.46 |
| 1/1 | 1/1 | 3.43 | 2.59 |
| 1/1 | 1/1 | 6.07 | 5.25 |
| 1/1 | 0/1 | 6.02 | 4.4 |
| 1/1 | 1/1 | 4.95 | 6.1 |
| 0/1 | 1/1 | 2.93 | 4.19 |
| 1/1 | 0/1 | 4.76 | 3.01 |
| 1/1 | 1/1 | 3.48 | 4.56 |
| 1/1 | 0/1 | 4.45 | 2.84 |
| 1/1 | 1/1 | 4.85 | 3.8 |
| 1/1 | 1/1 | 4.93 | 4 |
| 0/1 | 1/1 | 1.71 | 3.25 |
| 0/1 | 1/1 | 5.47 | 5.74 |
| 0/1 | 1/1 | 5.68 | 5.96 |
| 1/1 | 1/1 | 6.19 | 6.58 |
| 1/1 | 1/1 | 8.81 | 9.2 |
| 0/1 | 1/1 | 1.97 | 2.52 |
| 1/1 | 1/1 | 4.62 | 5.28 |
| 1/1 | 1/1 | 11.16 | 11.94 |
| 1/1 | 1/1 | 10.87 | 11.85 |
| 1/1 | 1/1 | 5.46 | 3.49 |
| 1/1 | 1/1 | 7.03 | 5.71 |
| 1/1 | 1/1 | 8.76 | 9.79 |
| 1/1 | 1/1 | 4.4 | 5.65 |
| 1/1 | 0/1 | 4.99 | 3.73 |
| 1/1 | 0/1 | 6.44 | 5.57 |
| 1/1 | 1/1 | 11.71 | 11.09 |
| 1/1 | 1/1 | 4.65 | 6.87 |
| 1/1 | 1/1 | 3.49 | 5.92 |
| 1/1 | 1/1 | 3.16 | 5.6 |
| 1/1 | 1/1 | 6.68 | 9.15 |
| 1/1 | 1/1 | 4.42 | 3.43 |
| 1/1 | 1/1 | 3.71 | 2.99 |
| 1/1 | 1/1 | 5.76 | 5.2 |
| 1/1 | 1/1 | 4.48 | 4 |
| 1/1 | 1/1 | 6.1 | 5.67 |
| 1/1 | 1/1 | 6.73 | 6.21 |
| 1/1 | 1/1 | 3.25 | 2.78 |
| 1/1 | 1/1 | 2.97 | 2.65 |
| 1/1 | 1/1 | 7.3 | 7.14 |
| 1/1 | 1/1 | 12.85 | 12.75 |
| 1/1 | 1/1 | 8.52 | 8.53 |
| 0/1 | 1/1 | 1.96 | 4.37 |
| 1/1 | 1/1 | 5.73 | 8.41 |
| 1/1 | 0/1 | 3.84 | 2.65 |
| 0/1 | 1/1 | 3.73 | 5.49 |
| 1/1 | 1/1 | 7.31 | 5.5 |
| 1/1 | 1/1 | 7.61 | 6.34 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 5.99 | 5.45 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.09 | 5.67 |
| 1/1 | 1/1 | 5.74 | 7.41 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.05 | 6.89 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 1/1 | 1/1 | 7.69 | 7.6 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 1/1 | 1/1 | 7.48 | 7.67 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 1/1 | 1/1 | 6.02 | 4.26 |
| 0/1 | 1/1 | 2.04 | 3.26 |
| 0/1 | 1/1 | 2.32 | 3.55 |
| 1/1 | 1/1 | 7.82 | 7.24 |
| 1/1 | 1/1 | 5.4 | 4.82 |
| 1/1 | 0/1 | 2.97 | 2.5 |
| 0/1 | 1/1 | 7.59 | 7.37 |
| 1/1 | 1/1 | 8.74 | 8.56 |
| 0/1 | 1/1 | 6 | 5.88 |
| 1/1 | 1/1 | 8.48 | 8.48 |
| 1/1 | 0/1 | 5.51 | 3.83 |
| 1/1 | 0/1 | 3.53 | 2.27 |
| 1/1 | 1/1 | 7.27 | 8.28 |
| 1/1 | 1/1 | 5.75 | 6.84 |
| 1/1 | 1/1 | 5.32 | 6.52 |
| 1/1 | 1/1 | 3.97 | 5.18 |
| 1/1 | 1/1 | 8.69 | 9.92 |
| 1/1 | 1/1 | 3.19 | 4.82 |
| 1/1 | 1/1 | 5.76 | 7.73 |
| 1/1 | 1/1 | 5.44 | 3.39 |
| 1/1 | 1/1 | 5.72 | 6.49 |
| 0/1 | 1/1 | 2.19 | 2.97 |
| 0/1 | 1/1 | 4.39 | 5.25 |
| 1/1 | 0/1 | 3.74 | 1.97 |
| 1/1 | 1/1 | 2.92 | 4.13 |
| 1/1 | 1/1 | 7.78 | 3.24 |
| 1/1 | 0/1 | 6.53 | 2.52 |
| 1/1 | 0/1 | 6.79 | 2.79 |
| 1/1 | 1/1 | 9.65 | 7.81 |
| 1/1 | 0/1 | 4.2 | 2.57 |
| 1/1 | 1/1 | 5.6 | 4.05 |
| 1/1 | 1/1 | 7.17 | 5.71 |
| 1/1 | 1/1 | 8.18 | 6.72 |
| 1/1 | 1/1 | 7.46 | 6.15 |
| 1/1 | 1/1 | 4.25 | 2.99 |
| 1/1 | 0/1 | 7.26 | 6.19 |
| 1/1 | 1/1 | 4.57 | 3.73 |
| 1/1 | 1/1 | 6.51 | 5.7 |
| 1/1 | 1/1 | 6.58 | 5.81 |
| 1/1 | 1/1 | 7.11 | 6.56 |
| 0/1 | 1/1 | 4.02 | 3.51 |
| 1/1 | 0/1 | 3.19 | 2.78 |
| 0/1 | 1/1 | 5.95 | 5.77 |
| 0/1 | 1/1 | 2.59 | 2.41 |
| 1/1 | 1/1 | 8.8 | 8.65 |
| 0/1 | 1/1 | 3.02 | 2.91 |
| 0/1 | 1/1 | 4.07 | 4.13 |
| 0/1 | 1/1 | 2.9 | 3.54 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 5.05 | 6.02 |
| 1/1 | 0/1 | 5.14 | 3.01 |
| 1/1 | 1/1 | 10.04 | 10.6 |
| 0/1 | 1/1 | 3.56 | 4.3 |
| 1/1 | 0/1 | 4.72 | 2.97 |
| 1/1 | 0/1 | 4.08 | 2.93 |
| 1/1 | 1/1 | 6.51 | 7.46 |
| 0/1 | 1/1 | 2.78 | 3.74 |
| 1/1 | 1/1 | 3.51 | 4.48 |
| 1/1 | 1/1 | 6.09 | 7.31 |
| 1/1 | 1/1 | 4.58 | 5.87 |
| 1/1 | 1/1 | 8.78 | 7.74 |
| 1/1 | 1/1 | 5.1 | 4.38 |
| 1/1 | 1/1 | 7.1 | 6.6 |
| 1/1 | 1/1 | 7.89 | 7.42 |
| 1/1 | 1/1 | 4.82 | 6.9 |
| 1/1 | 1/1 | 3.75 | 3.05 |
| 1/1 | 1/1 | 7.59 | 7.26 |
| 1/1 | 1/1 | 8.21 | 8.03 |
| 1/1 | 1/1 | 6.89 | 6.72 |
| 0/1 | 1/1 | 4.02 | 3.93 |
| 1/1 | 1/1 | 9.02 | 7.77 |
| 1/1 | 1/1 | 6.21 | 5.58 |
| 1/1 | 1/1 | 5.47 | 4.45 |
| 1/1 | 0/1 | 3.26 | 2.26 |
| 1/1 | 1/1 | 5.73 | 5.21 |
| 1/1 | 1/1 | 4.17 | 3.68 |
| 1/1 | 1/1 | 4.95 | 4.54 |
| 0/1 | 1/1 | 4.47 | 4.14 |
| 0/1 | 1/1 | 2.99 | 4.9 |
| 1/1 | 1/1 | 2.65 | 4.66 |
| 1/1 | 1/1 | 4.82 | 3.48 |
| 1/1 | 1/1 | 5.77 | 7.17 |
| 1/1 | 1/1 | 5.32 | 7.25 |
| 0/1 | 1/1 | 2.11 | 4.16 |
| 1/1 | 1/1 | 2.41 | 5.3 |
| 1/1 | 0/1 | 9.19 | 8.36 |
| 1/1 | 1/1 | 7.7 | 7.47 |
| 1/1 | 1/1 | 8.22 | 7.99 |
| 1/1 | 1/1 | 4.71 | 7.28 |
| 1/1 | 1/1 | 5.36 | 4 |
| 1/1 | 1/1 | 4.69 | 3.58 |
| 1/1 | 1/1 | 4.94 | 4.27 |
| 1/1 | 1/1 | 5.92 | 7.42 |
| 1/1 | 1/1 | 4.12 | 5.88 |
| 0/1 | 1/1 | 4.57 | 6.37 |
| 1/1 | 1/1 | 3.84 | 5.85 |
| 0/1 | 1/1 | 4.1 | 6.16 |
| 1/1 | 1/1 | 8.5 | 6.99 |
| 1/1 | 1/1 | 4.27 | 5.6 |
| 0/1 | 1/1 | 2.39 | 4.02 |
| 1/1 | 1/1 | 9.96 | 8.66 |
| 1/1 | 1/1 | 7.28 | 8.83 |
| 1/1 | 0/1 | 7.08 | 3.87 |
| 1/1 | 0/1 | 6.14 | 3.18 |
| 1/1 | 1/1 | 6.47 | 3.75 |
| 1/1 | 1/1 | 7.35 | 4.68 |
| 1/1 | 1/1 | 7.14 | 4.55 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.36 | 3.82 |
| 1/1 | 1/1 | 7.14 | 6.67 |
| 1/1 | 1/1 | 6.39 | 5.96 |
| 1/1 | 1/1 | 5.15 | 4.73 |
| 1/1 | 1/1 | 8.32 | 7.91 |
| 1/1 | 1/1 | 7.75 | 7.43 |
| 1/1 | 1/1 | 6.4 | 6.13 |
| 1/1 | 1/1 | 7.08 | 6.87 |
| 1/1 | 1/1 | 7.81 | 7.6 |
| 1/1 | 1/1 | 5.48 | 5.31 |
| 0/1 | 1/1 | 7.14 | 7.13 |
| 1/1 | 1/1 | 6.69 | 7.06 |
| 1/1 | 1/1 | 7.96 | 6 |
| 1/1 | 0/1 | 5 | 3.68 |
| 0/1 | 1/1 | 3.69 | 4.51 |
| 0/1 | 1/1 | 2.51 | 3.63 |
| 1/1 | 1/1 | 6.13 | 5.3 |
| 1/1 | 1/1 | 6.83 | 6.15 |
| 1/1 | 1/1 | 5.94 | 5.39 |
| 1/1 | 1/1 | 7.21 | 6.8 |
| 1/1 | 1/1 | 6.52 | 6.14 |
| 1/1 | 1/1 | 9.06 | 8.68 |
| 1/1 | 1/1 | 5.57 | 5.3 |
| 1/1 | 1/1 | 5.01 | 4.82 |
| 1/1 | 1/1 | 6.52 | 6.35 |
| 1/1 | 1/1 | 3.67 | 3.51 |
| 1/1 | 1/1 | 6.3 | 3.81 |
| 1/1 | 1/1 | 7.47 | 5.5 |
| 1/1 | 1/1 | 7.97 | 8.21 |
| 0/1 | 1/1 | 4.14 | 4.43 |
| 0/1 | 1/1 | 4.86 | 5.41 |
| 1/1 | 1/1 | 4.21 | 4.84 |
| 1/1 | 1/1 | 5.75 | 6.43 |
| 1/1 | 1/1 | 5.65 | 6.37 |
| 0/1 | 1/1 | 3.15 | 3.89 |
| 1/1 | 1/1 | 5.38 | 6.31 |
| 1/1 | 1/1 | 6 | 6.94 |
| 1/1 | 1/1 | 6.51 | 7.61 |
| 1/1 | 1/1 | 5.3 | 7.41 |
| 1/1 | 0/1 | 2.81 | 1.74 |
| 1/1 | 1/1 | 5.58 | 4.56 |
| 1/1 | 1/1 | 10.27 | 9.34 |
| 1/1 | 1/1 | 9.66 | 9.04 |
| 1/1 | 1/1 | 8.77 | 8.24 |
| 1/1 | 1/1 | 3.48 | 5.25 |
| 1/1 | 1/1 | 8.31 | 6.95 |
| 1/1 | 1/1 | 5.2 | 4.21 |
| 1/1 | 1/1 | 5.69 | 4.93 |
| 1/1 | 1/1 | 4.89 | 6.31 |
| 0/1 | 1/1 | 4.07 | 5.51 |
| 1/1 | 1/1 | 5.53 | 7.12 |
| 1/1 | 1/1 | 7.57 | 6.87 |
| 1/1 | 1/1 | 6.35 | 5.86 |
| 1/1 | 1/1 | 8.77 | 8.43 |
| 1/1 | 1/1 | 3.84 | 3.66 |
| 1/1 | 0/1 | 4.67 | 2.89 |
| 1/1 | 1/1 | 6.77 | 5.45 |
| 1/1 | 1/1 | 6.98 | 5.84 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.41 | 4.13 |
| 1/1 | 0/1 | 4.79 | 3.76 |
| 1/1 | 1/1 | 6.15 | 5.32 |
| 1/1 | 1/1 | 8 | 7.36 |
| 1/1 | 1/1 | 5.14 | 6.59 |
| 1/1 | 1/1 | 3.71 | 5.37 |
| 1/1 | 1/1 | 4.55 | 6.22 |
| 1/1 | 1/1 | 7.67 | 4.21 |
| 1/1 | 1/1 | 7.06 | 4.25 |
| 1/1 | 1/1 | 5.53 | 4.77 |
| 1/1 | 1/1 | 6.15 | 5.61 |
| 1/1 | 1/1 | 9.56 | 9.19 |
| 1/1 | 1/1 | 9.58 | 9.23 |
| 1/1 | 1/1 | 8.15 | 8.07 |
| 1/1 | 0/1 | 2.96 | 2.29 |
| 1/1 | 1/1 | 8.86 | 8.83 |
| 1/1 | 0/1 | 6.04 | 3.74 |
| 1/1 | 0/1 | 4.16 | 2.52 |
| 1/1 | 1/1 | 2.46 | 2.86 |
| 1/1 | 1/1 | 3.14 | 3.73 |
| 1/1 | 0/1 | 4.65 | 3.75 |
| 1/1 | 1/1 | 9.81 | 8.92 |
| 1/1 | 1/1 | 6.06 | 5.2 |
| 1/1 | 1/1 | 9.33 | 8.81 |
| 1/1 | 1/1 | 7.96 | 7.71 |
| 1/1 | 1/1 | 7.08 | 6.86 |
| 0/1 | 1/1 | 6.95 | 6.73 |
| 1/1 | 1/1 | 4.03 | 3.11 |
| 1/1 | 1/1 | 8.32 | 7.89 |
| 1/1 | 1/1 | 6.46 | 6.15 |
| 1/1 | 1/1 | 9.44 | 11.91 |
| 1/1 | 1/1 | 5.35 | 8.45 |
| 1/1 | 1/1 | 10.04 | 9.5 |
| 0/1 | 1/1 | 4.86 | 4.48 |
| 0/1 | 1/1 | 5.32 | 5.24 |
| 1/1 | 1/1 | 6.15 | 6.15 |
| 1/1 | 1/1 | 8.65 | 7.28 |
| 1/1 | 1/1 | 9.67 | 8.95 |
| 1/1 | 1/1 | 7.02 | 6.23 |
| 1/1 | 1/1 | 3.52 | 2.82 |
| 1/1 | 1/1 | 7.68 | 7.5 |
| 1/1 | 0/1 | 2.94 | 2.77 |
| 1/1 | 0/1 | 6.59 | 4.56 |
| 1/1 | 1/1 | 6.09 | 4.52 |
| 1/1 | 0/1 | 4.84 | 3.27 |
| 1/1 | 1/1 | 8.73 | 7.37 |
| 0/1 | 1/1 | 3.38 | 4.37 |
| 1/1 | 0/1 | 4.67 | 3.22 |
| 1/1 | 1/1 | 4.87 | 3.62 |
| 1/1 | 1/1 | 4.69 | 3.67 |
| 1/1 | 1/1 | 7.36 | 6.34 |
| 1/1 | 1/1 | 5.82 | 5.18 |
| 1/1 | 0/1 | 4.68 | 2.96 |
| 1/1 | 1/1 | 4.92 | 3.52 |
| 1/1 | 0/1 | 5.72 | 4.36 |
| 1/1 | 0/1 | 3.4 | 1.81 |
| 1/1 | 1/1 | 7.19 | 5.73 |
| 1/1 | 1/1 | 6.72 | 5.29 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 4.29 | 5.44 |
| 0/1 | 1/1 | 3.51 | 4.84 |
| 0/1 | 1/1 | 3.74 | 5.47 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 7.14 | 6.53 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.09 | 5.67 |
| 1/1 | 1/1 | 5.74 | 7.41 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 7.14 | 6.53 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.09 | 5.67 |
| 1/1 | 1/1 | 5.74 | 7.41 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 7.14 | 6.53 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.09 | 5.67 |
| 1/1 | 1/1 | 5.74 | 7.41 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 1/1 | 5.34 | 4.44 |
| 1/1 | 1/1 | 5.01 | 4.13 |
| 1/1 | 0/1 | 6.49 | 5.68 |
| 1/1 | 1/1 | 6.51 | 6.09 |
| 0/1 | 1/1 | 2.94 | 2.71 |
| 0/1 | 1/1 | 2.6 | 4.51 |
| 1/1 | 1/1 | 3.48 | 5.42 |
| 1/1 | 1/1 | 8.37 | 6.88 |
| 1/1 | 1/1 | 8.11 | 7.27 |
| 1/1 | 1/1 | 3.34 | 4.79 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 7.99 | 7.01 |
| 1/1 | 0/1 | 3.64 | 2.8 |
| 1/1 | 1/1 | 10.29 | 9.74 |
| 1/1 | 1/1 | 6.44 | 6.05 |
| 1/1 | 1/1 | 7.7 | 7.1 |
| 0/1 | 1/1 | 4.52 | 4.16 |
| 1/1 | 1/1 | 6.11 | 5.76 |
| 1/1 | 1/1 | 6.72 | 6.47 |
| 1/1 | 1/1 | 4.72 | 4.66 |
| 1/1 | 1/1 | 6.81 | 9.21 |
| 0/1 | 1/1 | 2.49 | 5.05 |
| 1/1 | 1/1 | 5.23 | 7.93 |
| 0/1 | 1/1 | 4.1 | 6.86 |
| 1/1 | 1/1 | 5.71 | 5.01 |
| 1/1 | 1/1 | 4.34 | 3.78 |
| 1/1 | 1/1 | 5.99 | 5.6 |
| 0/1 | 1/1 | 2.94 | 2.78 |
| 1/1 | 1/1 | 5.43 | 5.29 |
| 1/1 | 1/1 | 5.49 | 5.36 |
| 1/1 | 1/1 | 3.49 | 3.42 |
| 1/1 | 1/1 | 7.7 | 6.95 |
| 1/1 | 0/1 | 5.57 | 4.89 |
| 1/1 | 1/1 | 5.02 | 4.65 |
| 1/1 | 1/1 | 4.3 | 3.93 |
| 1/1 | 1/1 | 6.77 | 6.5 |
| 1/1 | 1/1 | 6.24 | 6.02 |
| 1/1 | 1/1 | 4.21 | 4.01 |
| 1/1 | 1/1 | 5.25 | 5.11 |
| 1/1 | 1/1 | 8.52 | 8.4 |
| 0/1 | 1/1 | 2.99 | 2.88 |
| 1/1 | 1/1 | 4.06 | 6.74 |
| 1/1 | 0/1 | 5.54 | 3.6 |
| 1/1 | 1/1 | 6.64 | 5.28 |
| 1/1 | 1/1 | 6.61 | 4.87 |
| 1/1 | 0/1 | 3.75 | 2.57 |
| 1/1 | 1/1 | 6.6 | 7.55 |
| 1/1 | 1/1 | 3.46 | 4.43 |
| 1/1 | 1/1 | 4.4 | 5.36 |
| 1/1 | 1/1 | 4.59 | 5.71 |
| 1/1 | 1/1 | 4.61 | 5.73 |
| 1/1 | 1/1 | 4.06 | 5.98 |
| 0/1 | 1/1 | 1.98 | 3.91 |
| 1/1 | 1/1 | 6.02 | 4.47 |
| 1/1 | 1/1 | 7.14 | 6.19 |
| 1/1 | 1/1 | 3.63 | 2.81 |
| 1/1 | 1/1 | 4.51 | 4.3 |
| 1/1 | 1/1 | 8.14 | 8.13 |
| 1/1 | 1/1 | 3.52 | 4.12 |
| 0/1 | 1/1 | 2.99 | 6.15 |
| 1/1 | 1/1 | 4.13 | 7.79 |
| 1/1 | 1/1 | 9.44 | 8.33 |
| 1/1 | 1/1 | 5.03 | 4.37 |
| 0/1 | 1/1 | 2.27 | 4.11 |
| 0/1 | 1/1 | 3.54 | 5.58 |
| 1/1 | 1/1 | 6.51 | 6.07 |
| 1/1 | 0/1 | 6.02 | 5.84 |
| 1/1 | 1/1 | 4.25 | 4.13 |
| 1/1 | 1/1 | 7.03 | 6.92 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 11.88 | 11.78 |
| 1/1 | 1/1 | 5.81 | 5.86 |
| 1/1 | 1/1 | 4.71 | 3.75 |
| 1/1 | 1/1 | 3.71 | 3.3 |
| 1/1 | 1/1 | 5.04 | 6.78 |
| 1/1 | 1/1 | 3.06 | 4.81 |
| 1/1 | 1/1 | 3.93 | 5.9 |
| 1/1 | 1/1 | 8.85 | 7.26 |
| 1/1 | 1/1 | 6.84 | 5.31 |
| 1/1 | 1/1 | 8.19 | 7.09 |
| 1/1 | 1/1 | 8.07 | 7.03 |
| 1/1 | 1/1 | 5.99 | 7.12 |
| 0/1 | 1/1 | 3.05 | 4.51 |
| 1/1 | 0/1 | 6.05 | 2.97 |
| 1/1 | 0/1 | 6.31 | 3.67 |
| 1/1 | 1/1 | 5.88 | 3.41 |
| 1/1 | 1/1 | 5.81 | 5.51 |
| 1/1 | 1/1 | 4.64 | 4.45 |
| 0/1 | 1/1 | 3.86 | 3.76 |
| 1/1 | 1/1 | 5.26 | 5.23 |
| 1/1 | 1/1 | 8.13 | 8.23 |
| 0/1 | 1/1 | 3.93 | 4.08 |
| 0/1 | 1/1 | 2.56 | 2.72 |
| 0/1 | 1/1 | 4.36 | 5.04 |
| 0/1 | 1/1 | 4.98 | 6.2 |
| 1/1 | 1/1 | 4.44 | 3.2 |
| 1/1 | 1/1 | 5.1 | 6.84 |
| 1/1 | 1/1 | 8.27 | 7.21 |
| 1/1 | 0/1 | 4.76 | 3.86 |
| 1/1 | 1/1 | 5.44 | 4.64 |
| 1/1 | 1/1 | 9.31 | 8.73 |
| 1/1 | 1/1 | 7.69 | 7.2 |
| 1/1 | 1/1 | 7.74 | 7.25 |
| 1/1 | 1/1 | 7.23 | 6.77 |
| 1/1 | 1/1 | 7.5 | 7.11 |
| 1/1 | 0/1 | 3.84 | 1.63 |
| 1/1 | 1/1 | 3.81 | 4.4 |
| 1/1 | 1/1 | 8.92 | 8.34 |
| 0/1 | 1/1 | 3.49 | 6.09 |
| 1/1 | 0/1 | 4.74 | 3.51 |
| 1/1 | 1/1 | 6.72 | 5.97 |
| 1/1 | 1/1 | 4.45 | 3.81 |
| 1/1 | 1/1 | 6.49 | 7.92 |
| 0/1 | 1/1 | 2.84 | 5.9 |
| 1/1 | 1/1 | 6.96 | 6.98 |
| 1/1 | 1/1 | 4.7 | 4.92 |
| 1/1 | 1/1 | 6.48 | 7.02 |
| 1/1 | 1/1 | 5.7 | 4.02 |
| 1/1 | 0/1 | 3.38 | 1.94 |
| 1/1 | 1/1 | 4.21 | 2.8 |
| 1/1 | 1/1 | 4.54 | 3.41 |
| 0/1 | 1/1 | 5.78 | 8.9 |
| 1/1 | 1/1 | 6.19 | 5.44 |
| 0/1 | 1/1 | 5.5 | 4.79 |
| 1/1 | 1/1 | 8.05 | 7.4 |
| 1/1 | 1/1 | 9.17 | 8.72 |
| 0/1 | 1/1 | 5.44 | 5.23 |
| 0/1 | 1/1 | 5.77 | 5.61 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 7.7 | 7.58 |
| 1/1 | 1/1 | 7.02 | 5.81 |
| 1/1 | 1/1 | 5 | 4.12 |
| 1/1 | 1/1 | 6.92 | 6.23 |
| 1/1 | 1/1 | 3.46 | 5.07 |
| 1/1 | 1/1 | 7.19 | 6.64 |
| 1/1 | 1/1 | 5.33 | 4.9 |
| 1/1 | 1/1 | 7.6 | 7.37 |
| 1/1 | 1/1 | 4.3 | 4.15 |
| 1/1 | 1/1 | 8.49 | 8.55 |
| 1/1 | 1/1 | 5.39 | 5.5 |
| 1/1 | 1/1 | 6.11 | 6.22 |
| 1/1 | 0/1 | 4.68 | 3.47 |
| 1/1 | 1/1 | 7.63 | 6.56 |
| 1/1 | 1/1 | 6.43 | 5.4 |
| 1/1 | 1/1 | 5.12 | 4.2 |
| 1/1 | 1/1 | 3.77 | 3.15 |
| 1/1 | 1/1 | 5.79 | 5.23 |
| 1/1 | 1/1 | 4.6 | 4.23 |
| 1/1 | 1/1 | 8.16 | 8.24 |
| 1/1 | 1/1 | 7.47 | 5.96 |
| 1/1 | 1/1 | 4.56 | 3.66 |
| 1/1 | 1/1 | 6.06 | 7.25 |
| 1/1 | 1/1 | 5.32 | 6.54 |
| 0/1 | 1/1 | 3.45 | 4.79 |
| 1/1 | 0/1 | 3.52 | 2.31 |
| 1/1 | 1/1 | 8.75 | 8.1 |
| 1/1 | 1/1 | 4.75 | 6.4 |
| 0/1 | 1/1 | 3.32 | 5.02 |
| 1/1 | 1/1 | 7.29 | 5.87 |
| 1/1 | 1/1 | 4.93 | 3.81 |
| 1/1 | 1/1 | 5.22 | 4.28 |
| 1/1 | 1/1 | 7.86 | 7.02 |
| 1/1 | 1/1 | 7.03 | 6.22 |
| 1/1 | 1/1 | 6.48 | 5.68 |
| 1/1 | 1/1 | 7.24 | 6.49 |
| 1/1 | 1/1 | 5.34 | 6.75 |
| 0/1 | 1/1 | 3.35 | 4.77 |
| 1/1 | 1/1 | 8.78 | 6.76 |
| 1/1 | 1/1 | 6.04 | 4.55 |
| 1/1 | 1/1 | 5.9 | 6.73 |
| 1/1 | 0/1 | 3.11 | 2.37 |
| 1/1 | 0/1 | 3.34 | 2.6 |
| 1/1 | 1/1 | 5.09 | 4.59 |
| 1/1 | 0/1 | 2.74 | 2.33 |
| 1/1 | 1/1 | 4.44 | 4.28 |
| 1/1 | 1/1 | 5.65 | 5.53 |
| 1/1 | 1/1 | 3.2 | 3.11 |
| 1/1 | 1/1 | 8.59 | 7.19 |
| 1/1 | 0/1 | 6.76 | 5.54 |
| 1/1 | 1/1 | 6.24 | 5.14 |
| 1/1 | 1/1 | 7.88 | 6.86 |
| 1/1 | 1/1 | 7.72 | 6.74 |
| 1/1 | 1/1 | 6.76 | 5.71 |
| 1/1 | 1/1 | 5.27 | 4.83 |
| 0/1 | 1/1 | 4.56 | 6.26 |
| 1/1 | 1/1 | 5.07 | 6.81 |
| 0/1 | 1/1 | 3.8 | 5.68 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.96 | 5.96 |
| 1/1 | 0/1 | 3.96 | 2.42 |
| 1/1 | 1/1 | 3.95 | 5.11 |
| 1/1 | 1/1 | 3.46 | 4.92 |
| 1/1 | 1/1 | 9.65 | 11.15 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 0/1 | 1/1 | 3.24 | 3.07 |
| 0/1 | 1/1 | 4.09 | 3.96 |
| 0/1 | 1/1 | 5.11 | 4.99 |
| 1/1 | 1/1 | 8.79 | 8.72 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 1/1 | 1/1 | 2.18 | 2.28 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 0/1 | 1/1 | 4.84 | 5.08 |
| 1/1 | 1/1 | 7.34 | 7.64 |
| 1/1 | 1/1 | 5.72 | 6.03 |
| 1/1 | 1/1 | 6.68 | 7.01 |
| 1/1 | 1/1 | 7.44 | 7.79 |
| 1/1 | 0/1 | 5.77 | 4.7 |
| 1/1 | 1/1 | 12.07 | 11.49 |
| 1/1 | 1/1 | 8.19 | 7.65 |
| 1/1 | 1/1 | 4.87 | 3.62 |
| 1/1 | 1/1 | 4.1 | 3.17 |
| 1/1 | 0/1 | 5.54 | 4.57 |
| 1/1 | 1/1 | 10.17 | 9.48 |
| 1/1 | 1/1 | 7.1 | 6.4 |
| 1/1 | 1/1 | 8.84 | 8.38 |
| 1/1 | 1/1 | 6.81 | 6.39 |
| 0/1 | 1/1 | 6.19 | 7.94 |
| 0/1 | 1/1 | 3.28 | 5.26 |
| 0/1 | 1/1 | 4 | 5.98 |
| 0/1 | 1/1 | 2.99 | 5.14 |
| 0/1 | 1/1 | 5.55 | 7.83 |
| 1/1 | 1/1 | 5.19 | 7.66 |
| 1/1 | 1/1 | 4.67 | 7.25 |
| 0/1 | 1/1 | 1.84 | 4.45 |
| 0/1 | 1/1 | 3.13 | 5.75 |
| 0/1 | 1/1 | 3.6 | 6.36 |
| 0/1 | 1/1 | 2.69 | 5.51 |
| 0/1 | 1/1 | 2.36 | 6.06 |
| 1/1 | 1/1 | 5.17 | 4.52 |
| 1/1 | 1/1 | 4.43 | 4.05 |
| 1/1 | 1/1 | 2.84 | 2.7 |
| 1/1 | 1/1 | 3.63 | 3.61 |
| 0/1 | 1/1 | 3.29 | 5.48 |
| 1/1 | 1/1 | 4.86 | 7.16 |
| 1/1 | 1/1 | 4.75 | 7.12 |
| 0/1 | 1/1 | 2.39 | 5.06 |
| 1/1 | 1/1 | 6.17 | 3.52 |
| 1/1 | 1/1 | 11.89 | 12.03 |
| 1/1 | 1/1 | 10.19 | 10.6 |
| 1/1 | 1/1 | 7.43 | 6.46 |
| 1/1 | 1/1 | 6.67 | 6.17 |
| 1/1 | 1/1 | 7.78 | 7.33 |
| 1/1 | 1/1 | 6.72 | 6.29 |
| 1/1 | 1/1 | 7.48 | 7.1 |
| 1/1 | 1/1 | 7.95 | 7.61 |
| 1/1 | 1/1 | 4.57 | 3.79 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.36 | 3.75 |
| 0/1 | 1/1 | 2.54 | 2.24 |
| 1/1 | 1/1 | 6.61 | 6.32 |
| 1/1 | 1/1 | 5.56 | 5.29 |
| 0/1 | 1/1 | 2.61 | 4.74 |
| 1/1 | 1/1 | 4.41 | 4.16 |
| 1/1 | 1/1 | 2.97 | 2.74 |
| 0/1 | 1/1 | 2.33 | 2.35 |
| 0/1 | 1/1 | 7.46 | 7.52 |
| 0/1 | 1/1 | 6.46 | 6.54 |
| 1/1 | 1/1 | 8.1 | 8.18 |
| 0/1 | 1/1 | 6.4 | 6.62 |
| 1/1 | 1/1 | 6.82 | 9.31 |
| 1/1 | 1/1 | 4.2 | 6.82 |
| 0/1 | 1/1 | 3.24 | 6.05 |
| 1/1 | 1/1 | 6.08 | 8.92 |
| 1/1 | 1/1 | 4.28 | 7.37 |
| 1/1 | 0/1 | 6.51 | 5.75 |
| 1/1 | 0/1 | 6.71 | 6.06 |
| 1/1 | 1/1 | 6.3 | 6.16 |
| 1/1 | 1/1 | 5.19 | 5.08 |
| 1/1 | 1/1 | 4.69 | 7.08 |
| 1/1 | 1/1 | 7.55 | 7.19 |
| 1/1 | 1/1 | 10.73 | 10.42 |
| 1/1 | 1/1 | 9.63 | 9.37 |
| 0/1 | 1/1 | 6.53 | 6.43 |
| 1/1 | 1/1 | 11.24 | 11.3 |
| 1/1 | 1/1 | 9.26 | 9.35 |
| 1/1 | 1/1 | 9.4 | 9.58 |
| 1/1 | 1/1 | 13.43 | 13.63 |
| 1/1 | 1/1 | 6.39 | 6.61 |
| 1/1 | 1/1 | 8.57 | 8.86 |
| 1/1 | 1/1 | 7.57 | 10.06 |
| 0/1 | 1/1 | 5.26 | 7.77 |
| 1/1 | 0/1 | 7.24 | 3.06 |
| 1/1 | 1/1 | 8.06 | 4.23 |
| 1/1 | 0/1 | 7.46 | 3.88 |
| 1/1 | 0/1 | 6.96 | 3.43 |
| 1/1 | 1/1 | 7.82 | 6.55 |
| 1/1 | 1/1 | 8.64 | 7.95 |
| 1/1 | 1/1 | 7.39 | 6.75 |
| 1/1 | 1/1 | 3.26 | 2.63 |
| 1/1 | 1/1 | 6.87 | 6.25 |
| 1/1 | 1/1 | 6.87 | 6.3 |
| 1/1 | 1/1 | 8.64 | 8.17 |
| 1/1 | 1/1 | 7.74 | 7.36 |
| 1/1 | 1/1 | 9.47 | 9.24 |
| 0/1 | 1/1 | 6 | 5.87 |
| 0/1 | 1/1 | 8.18 | 8.19 |
| 1/1 | 1/1 | 7.89 | 8.08 |
| 1/1 | 0/1 | 6.28 | 3.77 |
| 1/1 | 1/1 | 5.59 | 5.75 |
| 1/1 | 1/1 | 7.33 | 7.62 |
| 1/1 | 0/1 | 5.48 | 3.05 |
| 1/1 | 1/1 | 7.72 | 5.45 |
| 1/1 | 1/1 | 6.74 | 4.51 |
| 1/1 | 1/1 | 6.77 | 4.69 |
| 1/1 | 0/1 | 5.27 | 3.22 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.17 | 5.17 |
| 1/1 | 0/1 | 5.38 | 3.45 |
| 1/1 | 1/1 | 6.24 | 6.48 |
| 1/1 | 1/1 | 6.48 | 7.11 |
| 1/1 | 1/1 | 7.18 | 7.95 |
| 1/1 | 1/1 | 4.69 | 5.47 |
| 1/1 | 1/1 | 8.8 | 9.76 |
| 1/1 | 1/1 | 9.97 | 7.03 |
| 1/1 | 0/1 | 4.68 | 2.13 |
| 1/1 | 1/1 | 8.92 | 6.48 |
| 1/1 | 1/1 | 6.87 | 6.63 |
| 1/1 | 1/1 | 10.36 | 10.28 |
| 1/1 | 1/1 | 12 | 12.05 |
| 1/1 | 0/1 | 6.5 | 4.16 |
| 1/1 | 1/1 | 5.55 | 6.02 |
| 1/1 | 1/1 | 5.92 | 5.13 |
| 1/1 | 1/1 | 5.94 | 7.87 |
| 1/1 | 1/1 | 5.99 | 8.65 |
| 1/1 | 1/1 | 4.87 | 7.69 |
| 1/1 | 1/1 | 9.6 | 9.25 |
| 1/1 | 1/1 | 6.72 | 6.43 |
| 1/1 | 1/1 | 10.15 | 9.92 |
| 0/1 | 1/1 | 3.51 | 3.58 |
| 1/1 | 1/1 | 4.4 | 4.54 |
| 1/1 | 1/1 | 9.4 | 9.57 |
| 1/1 | 1/1 | 6.41 | 6.59 |
| 1/1 | 1/1 | 7.53 | 3.89 |
| 1/1 | 1/1 | 9.46 | 5.85 |
| 1/1 | 1/1 | 12.16 | 11.19 |
| 1/1 | 1/1 | 11.8 | 10.82 |
| 1/1 | 1/1 | 12.29 | 11.34 |
| 1/1 | 1/1 | 12.01 | 11.06 |
| 1/1 | 1/1 | 12.03 | 11.13 |
| 1/1 | 1/1 | 12.8 | 11.9 |
| 1/1 | 1/1 | 7.21 | 6.34 |
| 1/1 | 1/1 | 13.33 | 12.48 |
| 1/1 | 1/1 | 12.38 | 11.54 |
| 1/1 | 1/1 | 7.88 | 7.06 |
| 1/1 | 1/1 | 13.12 | 12.3 |
| 1/1 | 1/1 | 13.14 | 12.4 |
| 1/1 | 1/1 | 12.97 | 12.27 |
| 1/1 | 1/1 | 7.77 | 7.07 |
| 1/1 | 1/1 | 12.53 | 11.85 |
| 1/1 | 1/1 | 12.59 | 11.94 |
| 1/1 | 1/1 | 12.73 | 12.19 |
| 1/1 | 1/1 | 13.38 | 12.89 |
| 1/1 | 1/1 | 3.11 | 2.98 |
| 1/1 | 1/1 | 3.76 | 3.87 |
| 0/1 | 1/1 | 2.95 | 4.13 |
| 1/1 | 1/1 | 5.64 | 3.74 |
| 1/1 | 1/1 | 5.09 | 3.59 |
| 1/1 | 0/1 | 3.93 | 2.59 |
| 1/1 | 1/1 | 9.48 | 10.4 |
| 0/1 | 1/1 | 2.1 | 3.29 |
| 1/1 | 0/1 | 3.51 | 2.06 |
| 1/1 | 1/1 | 3.91 | 2.6 |
| 1/1 | 1/1 | 4.18 | 5.57 |
| 0/1 | 1/1 | 2.14 | 3.71 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.96 | 3.36 |
| 1/1 | 1/1 | 8.68 | 7.29 |
| 1/1 | 1/1 | 5.92 | 4.84 |
| 0/1 | 1/1 | 5.76 | 4.73 |
| 0/1 | 1/1 | 3.77 | 4.96 |
| 0/1 | 1/1 | 2.76 | 4.05 |
| 0/1 | 1/1 | 2.23 | 3.53 |
| 0/1 | 1/1 | 2.82 | 4.31 |
| 0/1 | 1/1 | 3.56 | 5.06 |
| 1/1 | 1/1 | 4.14 | 5.68 |
| 0/1 | 1/1 | 2.98 | 4.69 |
| 1/1 | 1/1 | 3.64 | 2.84 |
| 1/1 | 1/1 | 3.13 | 2.68 |
| 0/1 | 1/1 | 4.43 | 6.28 |
| 0/1 | 1/1 | 2.24 | 4.94 |
| 1/1 | 0/1 | 5.27 | 3.96 |
| 1/1 | 1/1 | 5.93 | 4.68 |
| 1/1 | 0/1 | 2.78 | 1.92 |
| 1/1 | 0/1 | 7.75 | 6.92 |
| 1/1 | 1/1 | 7.18 | 6.45 |
| 0/1 | 1/1 | 2.96 | 4.29 |
| 0/1 | 1/1 | 3.25 | 4.62 |
| 0/1 | 1/1 | 3.18 | 4.92 |
| 0/1 | 1/1 | 3.13 | 5.27 |
| 1/1 | 1/1 | 7.94 | 7.79 |
| 1/1 | 1/1 | 6.47 | 6.67 |
| 1/1 | 1/1 | 9.98 | 9.42 |
| 1/1 | 1/1 | 7.24 | 7.02 |
| 1/1 | 1/1 | 7.37 | 7.22 |
| 1/1 | 1/1 | 5.82 | 5.67 |
| 1/1 | 1/1 | 10.6 | 10.52 |
| 1/1 | 1/1 | 7.49 | 6.91 |
| 1/1 | 1/1 | 8.59 | 8.11 |
| 1/1 | 1/1 | 6.82 | 6.38 |
| 1/1 | 1/1 | 5.98 | 5.54 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 3.74 | 3.35 |
| 1/1 | 1/1 | 6.66 | 6.28 |
| 0/1 | 1/1 | 5.37 | 5.01 |
| 1/1 | 1/1 | 7.68 | 7.37 |
| 1/1 | 1/1 | 8.69 | 8.4 |
| 1/1 | 1/1 | 8.03 | 7.84 |
| 1/1 | 1/1 | 5.75 | 5.57 |
| 0/1 | 1/1 | 6.85 | 6.71 |
| 1/1 | 1/1 | 5 | 4.91 |
| 1/1 | 1/1 | 7.52 | 7.44 |
| 1/1 | 1/1 | 7.43 | 7.35 |
| 1/1 | 1/1 | 9.8 | 9.76 |
| 1/1 | 1/1 | 7.12 | 7.08 |
| 1/1 | 1/1 | 7.04 | 7.01 |
| 1/1 | 1/1 | 7.07 | 7.14 |
| 1/1 | 1/1 | 5.85 | 7.97 |
| 0/1 | 1/1 | 5.13 | 7.58 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 0/1 | 1/1 | 4.09 | 3.96 |
| 1/1 | 1/1 | 8.79 | 8.72 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 0/1 | 1/1 | 2.21 | 2.21 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.48 | 7.67 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 0/1 | 1/1 | 4.84 | 5.08 |
| 1/1 | 1/1 | 5.82 | 6.14 |
| 1/1 | 1/1 | 7.44 | 7.79 |
| 1/1 | 1/1 | 6.6 | 7 |
| 0/1 | 1/1 | 3.01 | 3.41 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 0/1 | 1/1 | 4.09 | 3.96 |
| 1/1 | 1/1 | 8.79 | 8.72 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 0/1 | 1/1 | 2.21 | 2.21 |
| 1/1 | 1/1 | 7.48 | 7.67 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 0/1 | 1/1 | 4.84 | 5.08 |
| 1/1 | 1/1 | 5.82 | 6.14 |
| 1/1 | 1/1 | 7.44 | 7.79 |
| 1/1 | 1/1 | 6.6 | 7 |
| 0/1 | 1/1 | 3.01 | 3.41 |
| 1/1 | 1/1 | 11.68 | 11.43 |
| 0/1 | 1/1 | 4.09 | 3.96 |
| 1/1 | 1/1 | 8.79 | 8.72 |
| 1/1 | 1/1 | 6.84 | 6.83 |
| 0/1 | 1/1 | 2.21 | 2.21 |
| 1/1 | 1/1 | 7.48 | 7.67 |
| 1/1 | 1/1 | 6.39 | 6.62 |
| 0/1 | 1/1 | 4.84 | 5.08 |
| 1/1 | 1/1 | 5.82 | 6.14 |
| 1/1 | 1/1 | 7.44 | 7.79 |
| 1/1 | 1/1 | 6.6 | 7 |
| 0/1 | 1/1 | 3.01 | 3.41 |
| 1/1 | 1/1 | 8.8 | 7.58 |
| 1/1 | 0/1 | 6.23 | 5.52 |
| 1/1 | 1/1 | 6.78 | 6.19 |
| 1/1 | 1/1 | 5.95 | 4.68 |
| 1/1 | 1/1 | 3.98 | 5.5 |
| 0/1 | 1/1 | 2.63 | 4.16 |
| 0/1 | 1/1 | 3.39 | 5.12 |
| 0/1 | 1/1 | 3.33 | 5.98 |
| 1/1 | 0/1 | 8.38 | 3.57 |
| 1/1 | 1/1 | 9.2 | 4.75 |
| 1/1 | 1/1 | 9.79 | 5.62 |
| 1/1 | 1/1 | 10.02 | 8.18 |
| 1/1 | 0/1 | 5.02 | 3.19 |
| 1/1 | 1/1 | 4.29 | 5.14 |
| 1/1 | 1/1 | 4.28 | 5.23 |
| 0/1 | 1/1 | 4.46 | 5.74 |
| 1/1 | 1/1 | 7.99 | 7.01 |
| 1/1 | 0/1 | 3.64 | 2.8 |
| 1/1 | 1/1 | 10.29 | 9.74 |
| 1/1 | 1/1 | 6.44 | 6.05 |
| 1/1 | 1/1 | 10.28 | 9.35 |
| 1/1 | 1/1 | 5.37 | 4.6 |
| 1/1 | 1/1 | 3.75 | 3.32 |
| 0/1 | 1/1 | 4.38 | 4.02 |
| 1/1 | 1/1 | 8.54 | 8.37 |
| 1/1 | 1/1 | 3.85 | 3.7 |
| 0/1 | 1/1 | 2.58 | 5.89 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 6.09 | 5.86 |
| 0/1 | 1/1 | 5.05 | 5.13 |
| 0/1 | 1/1 | 5.05 | 5.13 |
| 0/1 | 1/1 | 5.05 | 5.13 |
| 1/1 | 1/1 | 9.23 | 9.36 |
| 1/1 | 1/1 | 8.81 | 9.05 |
| 1/1 | 1/1 | 6.42 | 8.88 |
| 0/1 | 1/1 | 3.88 | 6.51 |
| 0/1 | 1/1 | 3.56 | 6.22 |
| 0/1 | 1/1 | 3.56 | 6.22 |
| 0/1 | 1/1 | 3.3 | 6.1 |
| 0/1 | 1/1 | 3.3 | 6.1 |
| 0/1 | 1/1 | 3.53 | 6.47 |
| 1/1 | 1/1 | 6.01 | 9.25 |
| 1/1 | 1/1 | 6.01 | 9.25 |
| 1/1 | 1/1 | 4.27 | 7.97 |
| 1/1 | 1/1 | 4.27 | 7.97 |
| 0/1 | 1/1 | 3.36 | 8.17 |
| 1/1 | 1/1 | 5.24 | 4.29 |
| 1/1 | 0/1 | 2.99 | 2.55 |
| 1/1 | 1/1 | 7.52 | 7.17 |
| 1/1 | 1/1 | 4.77 | 6.67 |
| 1/1 | 1/1 | 3.61 | 5.82 |
| 1/1 | 0/1 | 4.8 | 2.96 |
| 1/1 | 1/1 | 5.13 | 5.95 |
| 1/1 | 1/1 | 5.69 | 3.3 |
| 1/1 | 1/1 | 4.86 | 5.17 |
| 0/1 | 1/1 | 2.16 | 2.48 |
| 0/1 | 1/1 | 3.58 | 4.08 |
| 0/1 | 1/1 | 2.73 | 3.8 |
| 0/1 | 1/1 | 3.77 | 6.29 |
| 1/1 | 1/1 | 6.93 | 6.51 |
| 1/1 | 1/1 | 6.93 | 6.8 |
| 1/1 | 0/1 | 3.07 | 3.03 |
| 1/1 | 1/1 | 6.47 | 6.48 |
| 1/1 | 1/1 | 9.46 | 9.53 |
| 1/1 | 1/1 | 5.45 | 5.58 |
| 1/1 | 0/1 | 3.23 | 1.46 |
| 1/1 | 0/1 | 4.16 | 2.56 |
| 1/1 | 0/1 | 3.09 | 1.81 |
| 1/1 | 1/1 | 5.53 | 6.5 |
| 1/1 | 1/1 | 3.45 | 4.89 |
| 1/1 | 1/1 | 8.3 | 7.32 |
| 0/1 | 1/1 | 3.26 | 5.29 |
| 1/1 | 1/1 | 5.77 | 4.9 |
| 1/1 | 1/1 | 9 | 8.14 |
| 0/1 | 1/1 | 5.31 | 4.93 |
| 1/1 | 1/1 | 5.14 | 4.84 |
| 1/1 | 1/1 | 4.79 | 4.56 |
| 1/1 | 1/1 | 5.69 | 4.68 |
| 1/1 | 1/1 | 3.39 | 2.66 |
| 1/1 | 1/1 | 10.95 | 10.59 |
| 1/1 | 1/1 | 4.5 | 6.59 |
| 1/1 | 1/1 | 4.89 | 3.89 |
| 1/1 | 1/1 | 7.59 | 6.93 |
| 1/1 | 0/1 | 7.62 | 5.39 |
| 1/1 | 1/1 | 6.18 | 4.54 |
| 1/1 | 1/1 | 4.88 | 5.56 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.02 | 7.6 |
| 1/1 | 1/1 | 5.74 | 7.41 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.02 | 7.6 |
| 1/1 | 1/1 | 5.74 | 7.41 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 0/1 | 7.68 | 6.6 |
| 1/1 | 1/1 | 5.47 | 4.7 |
| 0/1 | 1/1 | 7.64 | 6.99 |
| 1/1 | 1/1 | 7.95 | 7.31 |
| 1/1 | 1/1 | 6.64 | 6.07 |
| 0/1 | 1/1 | 5.13 | 4.59 |
| 1/1 | 1/1 | 6.77 | 6.29 |
| 1/1 | 1/1 | 6.02 | 7.6 |
| 1/1 | 1/1 | 5.74 | 7.41 |
| 0/1 | 1/1 | 5.05 | 6.89 |
| 0/1 | 1/1 | 4.71 | 6.87 |
| 1/1 | 1/1 | 5.04 | 7.21 |
| 0/1 | 1/1 | 3.11 | 5.37 |
| 0/1 | 1/1 | 3.19 | 5.71 |
| 1/1 | 1/1 | 5.08 | 4.08 |
| 1/1 | 1/1 | 9.52 | 8.6 |
| 1/1 | 1/1 | 6.7 | 5.8 |
| 1/1 | 1/1 | 5.07 | 4.72 |
| 1/1 | 1/1 | 9.2 | 8.35 |
| 1/1 | 1/1 | 7.71 | 7.3 |
| 1/1 | 1/1 | 5.91 | 5.52 |
| 1/1 | 1/1 | 6.11 | 5.79 |
| 1/1 | 1/1 | 6.85 | 6.6 |
| 1/1 | 1/1 | 8.98 | 8.75 |
| 1/1 | 1/1 | 5.28 | 7.12 |
| 1/1 | 1/1 | 3.44 | 5.33 |
| 1/1 | 1/1 | 5.99 | 8.02 |
| 1/1 | 1/1 | 7.74 | 9.77 |
| 1/1 | 1/1 | 5.13 | 7.26 |
| 1/1 | 1/1 | 6.1 | 8.3 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.4 | 7.65 |
| 0/1 | 1/1 | 4.16 | 6.5 |
| 1/1 | 1/1 | 5.66 | 8.31 |
| 0/1 | 1/1 | 4.32 | 7.25 |
| 0/1 | 1/1 | 2.45 | 5.64 |
| 0/1 | 1/1 | 3.14 | 7.33 |
| 1/1 | 0/1 | 5.77 | 4.22 |
| 1/1 | 1/1 | 6.12 | 5.13 |
| 1/1 | 0/1 | 4.91 | 2.97 |
| 1/1 | 0/1 | 5.05 | 3.64 |
| 1/1 | 1/1 | 5.17 | 5.97 |
| 0/1 | 1/1 | 3.58 | 4.49 |
| 0/1 | 1/1 | 3.41 | 4.43 |
| 1/1 | 1/1 | 4.54 | 4.24 |
| 0/1 | 1/1 | 2.86 | 2.72 |
| 0/1 | 1/1 | 2.08 | 2.25 |
| 1/1 | 1/1 | 6.29 | 6.56 |
| 0/1 | 1/1 | 3.62 | 6.84 |
| 0/1 | 1/1 | 3.27 | 6.52 |
| 1/1 | 0/1 | 6.53 | 3.25 |
| 1/1 | 1/1 | 6.99 | 6.38 |
| 1/1 | 1/1 | 3.49 | 2.93 |
| 1/1 | 1/1 | 7.44 | 7.08 |
| 1/1 | 1/1 | 4.78 | 4.64 |
| 1/1 | 1/1 | 8.03 | 8.17 |
| 1/1 | 1/1 | 8.71 | 8.87 |
| 0/1 | 1/1 | 5.24 | 5.57 |
| 1/1 | 1/1 | 8.56 | 8.15 |
| 1/1 | 1/1 | 2.67 | 2.38 |
| 1/1 | 1/1 | 5.52 | 5.26 |
| 1/1 | 1/1 | 11.76 | 11.62 |
| 1/1 | 1/1 | 13.52 | 13.49 |
| 1/1 | 1/1 | 12.61 | 12.66 |
| 1/1 | 1/1 | 3.81 | 4.01 |
| 1/1 | 0/1 | 6.71 | 5.77 |
| 1/1 | 1/1 | 3.29 | 2.71 |
| 1/1 | 1/1 | 9.13 | 8.84 |
| 1/1 | 1/1 | 4.42 | 6.29 |
| 1/1 | 1/1 | 7.14 | 6.26 |
| 1/1 | 1/1 | 8.61 | 8.12 |
| 1/1 | 1/1 | 7.84 | 7.54 |
| 1/1 | 1/1 | 6.52 | 6.23 |
| 0/1 | 1/1 | 5.18 | 6.94 |
| 1/1 | 1/1 | 5.33 | 7.12 |
| 1/1 | 1/1 | 6.61 | 8.49 |
| 1/1 | 1/1 | 6.45 | 8.48 |
| 1/1 | 1/1 | 5.66 | 4.92 |
| 1/1 | 1/1 | 4.8 | 4.16 |
| 1/1 | 1/1 | 6.02 | 5.46 |
| 1/1 | 1/1 | 8.66 | 8.48 |
| 1/1 | 1/1 | 7.13 | 6.98 |
| 1/1 | 1/1 | 8.45 | 8.34 |
| 1/1 | 0/1 | 4.17 | 3.29 |
| 1/1 | 1/1 | 8.26 | 7.94 |
| 1/1 | 1/1 | 6.33 | 4.93 |
| 1/1 | 0/1 | 6.4 | 5.57 |
| 1/1 | 1/1 | 7.51 | 5.48 |
| 1/1 | 1/1 | 8.01 | 8.63 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.3 | 6.94 |
| 1/1 | 1/1 | 7.32 | 7.96 |
| 1/1 | 1/1 | 7.16 | 7.85 |
| 1/1 | 1/1 | 6.02 | 6.81 |
| 1/1 | 1/1 | 4.69 | 5.5 |
| 1/1 | 0/1 | 4.63 | 2.65 |
| 1/1 | 1/1 | 4.56 | 2.93 |
| 1/1 | 1/1 | 4.63 | 3.29 |
| 0/1 | 1/1 | 2.5 | 3.35 |
| 0/1 | 1/1 | 2.76 | 3.62 |
| 1/1 | 1/1 | 9.37 | 8.17 |
| 1/1 | 1/1 | 7.53 | 6.96 |
| 1/1 | 0/1 | 3.51 | 2.1 |
| 1/1 | 1/1 | 6.52 | 5.72 |
| 0/1 | 1/1 | 3.17 | 4.61 |
| 1/1 | 1/1 | 6.37 | 6.25 |
| 0/1 | 1/1 | 4.82 | 4.82 |
| 1/1 | 1/1 | 12.98 | 13.3 |
| 1/1 | 1/1 | 10.64 | 11.09 |
| 1/1 | 1/1 | 8.06 | 7.94 |
| 1/1 | 1/1 | 6.98 | 7.09 |
| 1/1 | 1/1 | 4.96 | 5.18 |
| 1/1 | 1/1 | 4.93 | 4.27 |
| 1/1 | 1/1 | 4 | 3.65 |
| 1/1 | 1/1 | 3.55 | 3.27 |
| 1/1 | 1/1 | 7.37 | 7.13 |
| 1/1 | 1/1 | 4.63 | 4.54 |
| 1/1 | 1/1 | 3.36 | 3.34 |
| 1/1 | 1/1 | 4.75 | 3.52 |
| 1/1 | 1/1 | 7.2 | 6.29 |
| 1/1 | 1/1 | 7.58 | 6.86 |
| 0/1 | 1/1 | 4.19 | 5.95 |
| 0/1 | 1/1 | 2.39 | 4.31 |
| 1/1 | 1/1 | 8.36 | 7.64 |
| 1/1 | 1/1 | 7.48 | 7.02 |
| 1/1 | 1/1 | 9 | 8.73 |
| 1/1 | 1/1 | 6.56 | 8.54 |
| 0/1 | 1/1 | 2.51 | 4.5 |
| 1/1 | 1/1 | 4.56 | 6.62 |
| 1/1 | 1/1 | 6.61 | 9.17 |
| 1/1 | 1/1 | 5.73 | 8.29 |
| 1/1 | 1/1 | 4.24 | 6.86 |
| 1/1 | 1/1 | 5.63 | 8.28 |
| 1/1 | 1/1 | 3.81 | 6.55 |
| 0/1 | 1/1 | 3.42 | 6.52 |
| 1/1 | 0/1 | 9.62 | 8.25 |
| 0/1 | 1/1 | 3.5 | 6.02 |
| 1/1 | 1/1 | 6.11 | 5.33 |
| 1/1 | 1/1 | 7.34 | 6.66 |
| 1/1 | 1/1 | 11.5 | 10.99 |
| 1/1 | 1/1 | 6.27 | 5.91 |
| 1/1 | 1/1 | 5.4 | 4.23 |
| 1/1 | 1/1 | 6.88 | 6.05 |
| 1/1 | 0/1 | 6.22 | 5.52 |
| 1/1 | 1/1 | 6.07 | 7.58 |
| 0/1 | 1/1 | 4.03 | 5.79 |
| 1/1 | 0/1 | 7.35 | 6.58 |
| 1/1 | 1/1 | 7.31 | 6.66 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 4.03 | 3.75 |
| 1/1 | 1/1 | 3.92 | 3.07 |
| 1/1 | 1/1 | 8.05 | 7.77 |
| 1/1 | 1/1 | 5.6 | 5.34 |
| 1/1 | 1/1 | 7.34 | 5.18 |
| 1/1 | 1/1 | 6.16 | 6.65 |
| 1/1 | 1/1 | 4.32 | 5.06 |
| 1/1 | 1/1 | 5.04 | 5.97 |
| 1/1 | 1/1 | 8.14 | 3.38 |
| 1/1 | 1/1 | 7.73 | 3.59 |
| 1/1 | 0/1 | 4.52 | 2.43 |
| 1/1 | 0/1 | 5.12 | 3.04 |
| 1/1 | 0/1 | 4.83 | 2.95 |
| 1/1 | 0/1 | 4.09 | 2.46 |
| 1/1 | 1/1 | 4.71 | 3.16 |
| 1/1 | 1/1 | 9.07 | 8.24 |
| 0/1 | 1/1 | 4.76 | 4.85 |
| 1/1 | 1/1 | 7.01 | 7.38 |
| 1/1 | 1/1 | 4.91 | 4 |
| 1/1 | 1/1 | 6.47 | 5.91 |
| 1/1 | 1/1 | 7.11 | 6.82 |
| 1/1 | 1/1 | 4.87 | 6.78 |
| 1/1 | 1/1 | 5.4 | 7.32 |
| 0/1 | 1/1 | 4.47 | 6.83 |
| 1/1 | 0/1 | 3.91 | 3.08 |
| 1/1 | 1/1 | 8.82 | 8.35 |
| 1/1 | 1/1 | 4.74 | 4.34 |
| 1/1 | 1/1 | 2.9 | 2.54 |
| 1/1 | 1/1 | 4.03 | 3.73 |
| 1/1 | 1/1 | 9.2 | 8.97 |
| 1/1 | 1/1 | 4.11 | 5.94 |
| 1/1 | 1/1 | 3.96 | 6.18 |
| 1/1 | 1/1 | 4.15 | 6.5 |
| 1/1 | 0/1 | 5.29 | 3.84 |
| 1/1 | 1/1 | 6.29 | 5.05 |
| 1/1 | 0/1 | 7.29 | 4.21 |
| 1/1 | 1/1 | 9.83 | 9.51 |
| 1/1 | 1/1 | 7.95 | 7.79 |
| 1/1 | 1/1 | 8.07 | 7.95 |
| 1/1 | 1/1 | 6.56 | 6.88 |
| 0/1 | 1/1 | 3.7 | 4.37 |
| 1/1 | 1/1 | 6.86 | 6.51 |
| 0/1 | 1/1 | 6.94 | 6.76 |
| 1/1 | 1/1 | 7.2 | 7.18 |
| 1/1 | 1/1 | 8.48 | 8.55 |
| 0/1 | 1/1 | 6.75 | 6.88 |
| 1/1 | 1/1 | 8.01 | 8.15 |
| 1/1 | 1/1 | 4.83 | 7.12 |
| 1/1 | 1/1 | 4.96 | 3.22 |
| 1/1 | 0/1 | 3.82 | 2.31 |
| 0/1 | 1/1 | 2.94 | 3.84 |
| 1/1 | 1/1 | 9.86 | 10.77 |
| 1/1 | 1/1 | 8.77 | 9.73 |
| 1/1 | 1/1 | 7.2 | 8.18 |
| 1/1 | 1/1 | 9.12 | 10.1 |
| 1/1 | 1/1 | 6.2 | 7.21 |
| 1/1 | 1/1 | 8.73 | 9.73 |
| 1/1 | 1/1 | 7.16 | 8.16 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.26 | 9.3 |
| 1/1 | 1/1 | 9.02 | 10.06 |
| 1/1 | 1/1 | 3.29 | 4.45 |
| 1/1 | 1/1 | 6.96 | 8.29 |
| 1/1 | 1/1 | 7.9 | 9.35 |
| 1/1 | 1/1 | 5.11 | 6.58 |
| 1/1 | 1/1 | 5.16 | 6.9 |
| 1/1 | 1/1 | 10.81 | 6.37 |
| 1/1 | 1/1 | 11.72 | 7.44 |
| 1/1 | 1/1 | 11.95 | 7.87 |
| 1/1 | 1/1 | 12.11 | 8.1 |
| 1/1 | 0/1 | 7.42 | 5.64 |
| 1/1 | 0/1 | 6.45 | 5.8 |
| 1/1 | 0/1 | 5.47 | 4.88 |
| 1/1 | 0/1 | 7.13 | 6.56 |
| 1/1 | 0/1 | 10.32 | 9.88 |
| 1/1 | 1/1 | 7.2 | 6.81 |
| 1/1 | 1/1 | 8.76 | 8.37 |
| 1/1 | 1/1 | 6.59 | 6.21 |
| 1/1 | 1/1 | 10.83 | 10.55 |
| 1/1 | 1/1 | 6.36 | 6.15 |
| 1/1 | 1/1 | 9.46 | 9.28 |
| 0/1 | 1/1 | 6.15 | 6 |
| 0/1 | 1/1 | 6.16 | 6.03 |
| 0/1 | 1/1 | 6.19 | 6.72 |
| 1/1 | 0/1 | 4.02 | 2.84 |
| 1/1 | 1/1 | 6.84 | 6.2 |
| 1/1 | 0/1 | 2.94 | 2.36 |
| 0/1 | 1/1 | 2.16 | 3.66 |
| 1/1 | 1/1 | 4.55 | 6.39 |
| 0/1 | 1/1 | 2.26 | 4.35 |
| 1/1 | 0/1 | 5.18 | 3.34 |
| 0/1 | 1/1 | 2.31 | 3.4 |
| 1/1 | 1/1 | 5.11 | 3.12 |
| 1/1 | 1/1 | 7.86 | 6.47 |
| 0/1 | 1/1 | 2.46 | 4.05 |
| 1/1 | 1/1 | 8.91 | 7.56 |
| 1/1 | 0/1 | 3.35 | 2.39 |
| 0/1 | 1/1 | 3.06 | 2.34 |
| 0/1 | 1/1 | 4.36 | 5.7 |
| 1/1 | 1/1 | 8.1 | 7.06 |
| 1/1 | 1/1 | 9.11 | 8.24 |
| 1/1 | 1/1 | 8.47 | 7.75 |
| 1/1 | 1/1 | 5.6 | 4.91 |
| 1/1 | 1/1 | 5.32 | 4.64 |
| 1/1 | 1/1 | 7.66 | 7.06 |
| 1/1 | 1/1 | 4.94 | 4.34 |
| 1/1 | 1/1 | 6.66 | 6.06 |
| 1/1 | 1/1 | 5.24 | 4.7 |
| 0/1 | 1/1 | 4.85 | 4.35 |
| 1/1 | 1/1 | 8.38 | 7.9 |
| 1/1 | 1/1 | 5.51 | 5.03 |
| 1/1 | 1/1 | 7.87 | 7.41 |
| 1/1 | 1/1 | 6.15 | 5.73 |
| 1/1 | 1/1 | 7.13 | 6.72 |
| 0/1 | 1/1 | 3.51 | 5.29 |
| 0/1 | 1/1 | 4.16 | 6.01 |
| 1/1 | 1/1 | 5.13 | 4.47 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 1/1 | 5.23 | 3.77 |
| 1/1 | 1/1 | 4.94 | 6.13 |
| 1/1 | 1/1 | 4.26 | 5.45 |
| 1/1 | 1/1 | 6.18 | 7.41 |
| 1/1 | 1/1 | 4.44 | 5.68 |
| 1/1 | 1/1 | 8.86 | 10.1 |
| 1/1 | 1/1 | 6.85 | 8.28 |
| 0/1 | 1/1 | 3.13 | 4.78 |
| 1/1 | 1/1 | 5.99 | 7.73 |
| 1/1 | 1/1 | 5.02 | 4.19 |
| 1/1 | 1/1 | 7.22 | 6.75 |
| 1/1 | 1/1 | 4.78 | 4.34 |
| 0/1 | 1/1 | 6.9 | 6.45 |
| 1/1 | 1/1 | 3.97 | 3.67 |
| 1/1 | 1/1 | 7.79 | 7.54 |
| 1/1 | 1/1 | 6.34 | 6.12 |
| 0/1 | 1/1 | 3.89 | 3.68 |
| 1/1 | 0/1 | 5.51 | 4.08 |
| 1/1 | 1/1 | 4.36 | 5.91 |
| 1/1 | 1/1 | 4.58 | 3.58 |
| 1/1 | 0/1 | 2.97 | 2.58 |
| 1/1 | 1/1 | 3.47 | 5.17 |
| 1/1 | 1/1 | 6.27 | 5.01 |
| 1/1 | 1/1 | 4.94 | 4.12 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 1/1 | 1/1 | 6.41 | 6.16 |
| 1/1 | 1/1 | 7.8 | 7.7 |
| 1/1 | 1/1 | 3.5 | 3.76 |
| 0/1 | 1/1 | 4.27 | 4.62 |
| 1/1 | 1/1 | 4.15 | 6.69 |
| 0/1 | 1/1 | 4.13 | 6.68 |
| 1/1 | 1/1 | 2.97 | 5.56 |
| 1/1 | 1/1 | 9.43 | 7.8 |
| 1/1 | 1/1 | 9.61 | 8.1 |
| 1/1 | 1/1 | 6.46 | 5.03 |
| 1/1 | 1/1 | 10.99 | 9.65 |
| 1/1 | 1/1 | 8.85 | 7.53 |
| 1/1 | 1/1 | 7.98 | 6.77 |
| 1/1 | 1/1 | 8.05 | 6.87 |
| 1/1 | 1/1 | 9.04 | 7.88 |
| 1/1 | 1/1 | 8.75 | 7.62 |
| 1/1 | 1/1 | 5.44 | 4.31 |
| 1/1 | 1/1 | 8.94 | 7.82 |
| 1/1 | 1/1 | 9.14 | 8.11 |
| 1/1 | 1/1 | 11.95 | 10.93 |
| 1/1 | 1/1 | 5.48 | 6.51 |
| 1/1 | 1/1 | 7.25 | 8.38 |
| 0/1 | 1/1 | 4.46 | 5.59 |
| 1/1 | 1/1 | 5.32 | 6.56 |
| 0/1 | 1/1 | 7.2 | 8.48 |
| 0/1 | 1/1 | 2.94 | 4.23 |
| 0/1 | 1/1 | 4.91 | 6.23 |
| 0/1 | 1/1 | 5.59 | 7.15 |
| 1/1 | 1/1 | 5.87 | 7.55 |
| 0/1 | 1/1 | 2.34 | 4.07 |
| 0/1 | 1/1 | 4.49 | 6.61 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.11 | 9.33 |
| 1/1 | 1/1 | 8.83 | 11.5 |
| 1/1 | 1/1 | 6.89 | 9.77 |
| 1/1 | 1/1 | 7.25 | 11.75 |
| 1/1 | 1/1 | 5.55 | 10.16 |
| 1/1 | 1/1 | 4.45 | 9.64 |
| 1/1 | 1/1 | 5.03 | 11.37 |
| 0/1 | 1/1 | 2.21 | 10.29 |
| 1/1 | 0/1 | 6 | 4.47 |
| 1/1 | 1/1 | 7.26 | 8.4 |
| 0/1 | 1/1 | 3.36 | 5.08 |
| 1/1 | 1/1 | 5.36 | 4.35 |
| 1/1 | 0/1 | 3.7 | 3.12 |
| 1/1 | 1/1 | 3.76 | 5.83 |
| 1/1 | 1/1 | 6.27 | 5.01 |
| 1/1 | 1/1 | 4.94 | 4.12 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 1/1 | 1/1 | 6.27 | 5.01 |
| 1/1 | 1/1 | 4.94 | 4.12 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 1/1 | 1/1 | 6.27 | 5.01 |
| 1/1 | 1/1 | 4.94 | 4.12 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 1/1 | 1/1 | 6.27 | 5.01 |
| 1/1 | 1/1 | 4.94 | 4.12 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 1/1 | 1/1 | 6.27 | 5.01 |
| 1/1 | 1/1 | 4.94 | 4.12 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 3.68 | 5.6 |
| 1/1 | 1/1 | 9.44 | 9.14 |
| 1/1 | 1/1 | 9.2 | 9.18 |
| 1/1 | 1/1 | 5.66 | 5.65 |
| 0/1 | 1/1 | 3.41 | 3.49 |
| 1/1 | 1/1 | 8.54 | 8.83 |
| 1/1 | 1/1 | 7.99 | 8.32 |
| 1/1 | 1/1 | 4.28 | 6.9 |
| 1/1 | 1/1 | 6.51 | 4.95 |
| 0/1 | 1/1 | 3.62 | 4.84 |
| 1/1 | 1/1 | 6.21 | 4.97 |
| 1/1 | 1/1 | 6.35 | 5.65 |
| 1/1 | 0/1 | 6.54 | 5.87 |
| 1/1 | 1/1 | 9.28 | 8.62 |
| 1/1 | 0/1 | 3.31 | 1.87 |
| 1/1 | 0/1 | 5.67 | 4.5 |
| 1/1 | 1/1 | 9.81 | 8.96 |
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.34 | 9.85 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 5.19 | 4.88 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 1/1 | 5.88 | 4.86 |
| 1/1 | 1/1 | 5.18 | 4.71 |
| 1/1 | 1/1 | 8.88 | 8.41 |
| 1/1 | 1/1 | 2.76 | 2.32 |
| 1/1 | 1/1 | 7.77 | 7.36 |
| 1/1 | 1/1 | 6.72 | 6.01 |
| 1/1 | 1/1 | 8.03 | 7.59 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 7.99 | 7.87 |
| 0/1 | 1/1 | 2.53 | 5.09 |
| 1/1 | 0/1 | 3.35 | 2.42 |
| 1/1 | 1/1 | 5.31 | 4.52 |
| 1/1 | 1/1 | 3.17 | 2.6 |
| 1/1 | 1/1 | 6.95 | 5.54 |
| 1/1 | 1/1 | 6.56 | 5.66 |
| 1/1 | 1/1 | 7.93 | 7.06 |
| 0/1 | 1/1 | 5.15 | 4.64 |
| 1/1 | 1/1 | 6.55 | 6.04 |
| 1/1 | 1/1 | 8.43 | 8.11 |
| 1/1 | 1/1 | 5.21 | 4.93 |
| 1/1 | 1/1 | 5.26 | 7.09 |
| 1/1 | 1/1 | 4.23 | 6.1 |
| 1/1 | 1/1 | 8.44 | 7.5 |
| 1/1 | 1/1 | 7.32 | 6.71 |
| 1/1 | 1/1 | 3.82 | 3.32 |
| 1/1 | 0/1 | 7.32 | 6.84 |
| 1/1 | 1/1 | 5.78 | 5.33 |
| 1/1 | 1/1 | 6.73 | 6.36 |
| 1/1 | 1/1 | 3.47 | 3.13 |
| 1/1 | 1/1 | 5.76 | 7.6 |
| 1/1 | 1/1 | 5.23 | 7.17 |
| 1/1 | 1/1 | 5.01 | 7.05 |
| 1/1 | 1/1 | 4.33 | 6.55 |
| 1/1 | 1/1 | 3.89 | 6.77 |
| 1/1 | 1/1 | 9.44 | 9.14 |
| 1/1 | 1/1 | 10.05 | 10.02 |
| 1/1 | 1/1 | 4.93 | 5.01 |
| 0/1 | 1/1 | 3.41 | 3.49 |
| 1/1 | 1/1 | 8.54 | 8.83 |
| 1/1 | 1/1 | 7.99 | 8.32 |
| 1/1 | 1/1 | 4.28 | 6.9 |
| 1/1 | 1/1 | 9.81 | 8.96 |
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.34 | 9.85 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 1/1 | 9.81 | 8.96 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.34 | 9.85 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 4.28 | 3.93 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 1/1 | 11.38 | 10.6 |
| 1/1 | 1/1 | 5.34 | 4.86 |
| 1/1 | 1/1 | 8.81 | 8.43 |
| 1/1 | 1/1 | 6.1 | 5.83 |
| 1/1 | 1/1 | 6.16 | 5.92 |
| 1/1 | 1/1 | 7.94 | 7.74 |
| 1/1 | 1/1 | 7 | 6.81 |
| 1/1 | 1/1 | 6.25 | 8.1 |
| 1/1 | 1/1 | 6.71 | 8.71 |
| 1/1 | 1/1 | 5.6 | 4.69 |
| 1/1 | 1/1 | 10.08 | 9.6 |
| 1/1 | 1/1 | 5.23 | 4.82 |
| 1/1 | 1/1 | 7.06 | 8.95 |
| 1/1 | 1/1 | 5.87 | 4.57 |
| 1/1 | 1/1 | 6.62 | 5.36 |
| 1/1 | 1/1 | 6.04 | 5.33 |
| 0/1 | 1/1 | 1.77 | 3.2 |
| 1/1 | 1/1 | 8.93 | 8.39 |
| 1/1 | 1/1 | 3.89 | 3.54 |
| 0/1 | 1/1 | 1.88 | 1.82 |
| 0/1 | 1/1 | 5.61 | 6.44 |
| 1/1 | 1/1 | 6.49 | 7.92 |
| 1/1 | 1/1 | 5.88 | 4.86 |
| 1/1 | 1/1 | 8.88 | 8.41 |
| 1/1 | 1/1 | 2.76 | 2.32 |
| 1/1 | 1/1 | 7.77 | 7.36 |
| 1/1 | 1/1 | 6.28 | 3.94 |
| 1/1 | 1/1 | 6.74 | 7.04 |
| 1/1 | 1/1 | 5.2 | 5.73 |
| 1/1 | 0/1 | 4.59 | 3.49 |
| 1/1 | 1/1 | 6.41 | 5.78 |
| 1/1 | 1/1 | 3.98 | 3.44 |
| 1/1 | 0/1 | 5.66 | 3.57 |
| 0/1 | 1/1 | 2.64 | 3.19 |
| 1/1 | 1/1 | 7.1 | 3.7 |
| 1/1 | 1/1 | 4.72 | 4.46 |
| 1/1 | 1/1 | 5.86 | 5.7 |
| 1/1 | 1/1 | 6.4 | 4.95 |
| 1/1 | 0/1 | 5.5 | 4.32 |
| 1/1 | 1/1 | 9.1 | 7.97 |
| 1/1 | 0/1 | 6.13 | 5.22 |
| 1/1 | 1/1 | 6.65 | 5.74 |
| 1/1 | 1/1 | 9.71 | 11.27 |
| 1/1 | 0/1 | 4.69 | 3.33 |
| 1/1 | 0/1 | 4.85 | 3.56 |
| 1/1 | 0/1 | 5.24 | 4.27 |
| 0/1 | 1/1 | 3.94 | 5.32 |
| 0/1 | 1/1 | 2.96 | 4.53 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.93 | 4.54 |
| 0/1 | 1/1 | 3.33 | 4.96 |
| 0/1 | 1/1 | 3.55 | 5.56 |
| 1/1 | 0/1 | 5.7 | 4.74 |
| 1/1 | 1/1 | 4.09 | 3.16 |
| 1/1 | 1/1 | 6.76 | 6.38 |
| 0/1 | 1/1 | 4.53 | 6.73 |
| 1/1 | 1/1 | 5.13 | 4.47 |
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 0/1 | 3.8 | 2.58 |
| 1/1 | 1/1 | 5.38 | 4.76 |
| 1/1 | 0/1 | 3.43 | 2.83 |
| 1/1 | 1/1 | 4.22 | 5.7 |
| 1/1 | 1/1 | 7.31 | 6.38 |
| 1/1 | 1/1 | 6.88 | 6.49 |
| 1/1 | 1/1 | 4.48 | 6.26 |
| 1/1 | 1/1 | 11.35 | 9.95 |
| 1/1 | 1/1 | 11.14 | 10.02 |
| 1/1 | 0/1 | 8.08 | 7.05 |
| 1/1 | 1/1 | 7.22 | 6.39 |
| 1/1 | 1/1 | 4.71 | 4.28 |
| 1/1 | 1/1 | 5.22 | 6.82 |
| 1/1 | 1/1 | 7.22 | 8.92 |
| 0/1 | 1/1 | 5.04 | 6.83 |
| 1/1 | 1/1 | 6.27 | 4.08 |
| 1/1 | 1/1 | 6.13 | 4.45 |
| 1/1 | 1/1 | 7.28 | 7.78 |
| 1/1 | 1/1 | 2.92 | 3.64 |
| 1/1 | 1/1 | 5.99 | 4.95 |
| 1/1 | 1/1 | 4.51 | 4.08 |
| 1/1 | 1/1 | 6.54 | 6.37 |
| 0/1 | 1/1 | 2.48 | 2.5 |
| 1/1 | 1/1 | 7.45 | 7.51 |
| 1/1 | 1/1 | 2.92 | 3.21 |
| 1/1 | 1/1 | 9.11 | 9.48 |
| 1/1 | 1/1 | 5.13 | 5.54 |
| 1/1 | 1/1 | 6.31 | 8.79 |
| 1/1 | 1/1 | 4.39 | 7.21 |
| 1/1 | 0/1 | 6.53 | 2.57 |
| 1/1 | 1/1 | 8.92 | 5.47 |
| 1/1 | 1/1 | 9.68 | 8.47 |
| 1/1 | 1/1 | 3.5 | 3.41 |
| 1/1 | 1/1 | 6.71 | 6.92 |
| 1/1 | 1/1 | 5.13 | 4.47 |
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 1/1 | 5.13 | 4.47 |
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 1/1 | 5.13 | 4.47 |
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 1/1 | 5.13 | 4.47 |
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 1/1 | 5.13 | 4.47 |
| 1/1 | 1/1 | 10.42 | 10.15 |
| 1/1 | 0/1 | 4.74 | 3.1 |
| 1/1 | 1/1 | 6.26 | 4.96 |
| 1/1 | 0/1 | 3.75 | 2.57 |
| 1/1 | 0/1 | 4.24 | 3.12 |
| 1/1 | 1/1 | 4.97 | 6 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.51 | 4.54 |
| 1/1 | 1/1 | 4.61 | 5.73 |
| 1/1 | 1/1 | 3.74 | 4.9 |
| 1/1 | 1/1 | 4.68 | 5.86 |
| 1/1 | 0/1 | 4.07 | 1.85 |
| 1/1 | 1/1 | 7.15 | 5.13 |
| 1/1 | 1/1 | 5.74 | 3.82 |
| 0/1 | 1/1 | 3.01 | 3.5 |
| 0/1 | 1/1 | 3.93 | 4.6 |
| 1/1 | 1/1 | 8.46 | 6.98 |
| 1/1 | 0/1 | 3.48 | 2.19 |
| 1/1 | 1/1 | 7.51 | 6.35 |
| 1/1 | 1/1 | 8.51 | 7.39 |
| 1/1 | 1/1 | 11.28 | 10.18 |
| 1/1 | 1/1 | 4.41 | 5.59 |
| 1/1 | 0/1 | 4.43 | 3.35 |
| 1/1 | 1/1 | 4.55 | 6.08 |
| 0/1 | 1/1 | 3.02 | 4.76 |
| 1/1 | 1/1 | 4.44 | 6.25 |
| 1/1 | 1/1 | 5.38 | 4.57 |
| 1/1 | 1/1 | 5.8 | 5.24 |
| 1/1 | 1/1 | 7.56 | 7.35 |
| 1/1 | 0/1 | 6.92 | 5.8 |
| 1/1 | 1/1 | 8.16 | 7.41 |
| 1/1 | 0/1 | 5.01 | 4.4 |
| 1/1 | 1/1 | 9.34 | 8.83 |
| 1/1 | 0/1 | 3.36 | 2.33 |
| 1/1 | 1/1 | 3.79 | 3.04 |
| 1/1 | 1/1 | 4.01 | 3.53 |
| 1/1 | 1/1 | 5.3 | 4.85 |
| 0/1 | 1/1 | 2.05 | 4.35 |
| 1/1 | 0/1 | 3.44 | 2.56 |
| 1/1 | 0/1 | 3.31 | 2.49 |
| 1/1 | 1/1 | 3.32 | 2.51 |
| 1/1 | 1/1 | 4.72 | 4.02 |
| 1/1 | 1/1 | 5.01 | 4.43 |
| 1/1 | 1/1 | 8.78 | 8.39 |
| 1/1 | 1/1 | 5.48 | 5.12 |
| 1/1 | 1/1 | 9.45 | 9.19 |
| 1/1 | 0/1 | 4.49 | 2.48 |
| 1/1 | 0/1 | 5.97 | 4.01 |
| 1/1 | 0/1 | 4.83 | 3.01 |
| 0/1 | 1/1 | 2.57 | 3.21 |
| 0/1 | 1/1 | 2.67 | 3.59 |
| 0/1 | 1/1 | 2.22 | 3.18 |
| 0/1 | 1/1 | 3.51 | 4.65 |
| 1/1 | 1/1 | 4.02 | 3.67 |
| 1/1 | 1/1 | 4.67 | 4.35 |
| 1/1 | 1/1 | 6.52 | 6.37 |
| 1/1 | 1/1 | 8.21 | 8.19 |
| 1/1 | 1/1 | 6.63 | 6.66 |
| 1/1 | 1/1 | 4.56 | 4.74 |
| 1/1 | 1/1 | 4.09 | 6.61 |
| 1/1 | 1/1 | 6.15 | 3.75 |
| 1/1 | 1/1 | 4.88 | 3.09 |
| 1/1 | 1/1 | 8.2 | 8.42 |
| 1/1 | 1/1 | 9.18 | 9.53 |
| 0/1 | 1/1 | 3.25 | 3.82 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.22 | 3.64 |
| 1/1 | 1/1 | 5.85 | 7.32 |
| 1/1 | 1/1 | 4.91 | 3.3 |
| 1/1 | 1/1 | 9.42 | 8.03 |
| 1/1 | 1/1 | 10.48 | 9.36 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 7.11 | 6.23 |
| 1/1 | 1/1 | 7.3 | 6.65 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 7.11 | 6.23 |
| 1/1 | 1/1 | 7.3 | 6.65 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 7.11 | 6.23 |
| 1/1 | 1/1 | 7.1 | 6.44 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 7.11 | 6.23 |
| 1/1 | 1/1 | 7.3 | 6.65 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 7.11 | 6.23 |
| 1/1 | 1/1 | 7.3 | 6.65 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 1/1 | 1/1 | 4.13 | 3.34 |
| 1/1 | 1/1 | 3.17 | 2.58 |
| 1/1 | 1/1 | 3.71 | 3.52 |
| 1/1 | 1/1 | 8.61 | 8.43 |
| 1/1 | 0/1 | 6.23 | 2.45 |
| 1/1 | 1/1 | 7.83 | 4.17 |
| 1/1 | 1/1 | 7.68 | 4.28 |
| 1/1 | 0/1 | 5.93 | 2.74 |
| 1/1 | 0/1 | 3.72 | 2.57 |
| 1/1 | 1/1 | 5.51 | 4.38 |
| 1/1 | 1/1 | 5.8 | 4.69 |
| 1/1 | 0/1 | 2.85 | 1.89 |
| 1/1 | 0/1 | 4.41 | 3.52 |
| 1/1 | 1/1 | 5.86 | 5.03 |
| 1/1 | 0/1 | 3.46 | 2.75 |
| 1/1 | 0/1 | 3.01 | 2.42 |
| 1/1 | 0/1 | 2.7 | 2.21 |
| 1/1 | 1/1 | 5.02 | 4.6 |
| 1/1 | 1/1 | 4.66 | 4.3 |
| 1/1 | 1/1 | 7.21 | 6.93 |
| 1/1 | 1/1 | 13.32 | 13.21 |
| 1/1 | 1/1 | 2.82 | 2.74 |
| 1/1 | 1/1 | 3.34 | 3.67 |
| 1/1 | 1/1 | 6.01 | 5.08 |
| 1/1 | 0/1 | 8.98 | 8.13 |
| 1/1 | 0/1 | 6.32 | 5.71 |
| 1/1 | 1/1 | 6.1 | 5.52 |
| 1/1 | 1/1 | 7.23 | 6.7 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.8 | 3.3 |
| 1/1 | 1/1 | 5.89 | 5.4 |
| 1/1 | 1/1 | 9.4 | 8.95 |
| 1/1 | 1/1 | 11.52 | 11.08 |
| 1/1 | 1/1 | 3.67 | 3.27 |
| 1/1 | 1/1 | 4.45 | 4.1 |
| 1/1 | 1/1 | 8.12 | 9.81 |
| 1/1 | 1/1 | 5.54 | 7.33 |
| 1/1 | 1/1 | 7.83 | 9.64 |
| 1/1 | 1/1 | 6.1 | 8.09 |
| 1/1 | 1/1 | 6.65 | 8.78 |
| 1/1 | 1/1 | 4.75 | 7 |
| 1/1 | 1/1 | 5.04 | 7.3 |
| 1/1 | 1/1 | 6.44 | 8.96 |
| 1/1 | 1/1 | 4.8 | 7.9 |
| 1/1 | 1/1 | 11.31 | 10.48 |
| 1/1 | 1/1 | 9.97 | 9.63 |
| 1/1 | 1/1 | 6.04 | 5.72 |
| 1/1 | 1/1 | 6.04 | 5.79 |
| 1/1 | 1/1 | 6.01 | 5.61 |
| 1/1 | 1/1 | 3.82 | 3.61 |
| 1/1 | 1/1 | 9.02 | 8.99 |
| 1/1 | 1/1 | 3.66 | 3.86 |
| 1/1 | 1/1 | 5.66 | 7.96 |
| 1/1 | 1/1 | 3.77 | 6.08 |
| 1/1 | 1/1 | 3.57 | 6.13 |
| 1/1 | 0/1 | 6.46 | 5.31 |
| 1/1 | 1/1 | 4.98 | 4.26 |
| 1/1 | 1/1 | 7.81 | 7.18 |
| 1/1 | 1/1 | 6.72 | 5.32 |
| 1/1 | 1/1 | 6.02 | 4.69 |
| 0/1 | 1/1 | 3.37 | 4.91 |
| 1/1 | 0/1 | 2.39 | 1.95 |
| 1/1 | 1/1 | 4.47 | 4.04 |
| 1/1 | 1/1 | 3.21 | 2.98 |
| 1/1 | 1/1 | 7.42 | 7.22 |
| 1/1 | 1/1 | 7.12 | 6.94 |
| 0/1 | 1/1 | 6.82 | 6.87 |
| 1/1 | 1/1 | 4.8 | 4.89 |
| 1/1 | 1/1 | 5.94 | 3.32 |
| 1/1 | 0/1 | 5.56 | 3.13 |
| 1/1 | 1/1 | 12.17 | 12.29 |
| 1/1 | 1/1 | 8.22 | 8.45 |
| 1/1 | 0/1 | 8.15 | 7.17 |
| 1/1 | 0/1 | 6.92 | 6.03 |
| 1/1 | 1/1 | 7.62 | 7.09 |
| 1/1 | 1/1 | 5.02 | 4.53 |
| 1/1 | 1/1 | 8.72 | 8.3 |
| 1/1 | 1/1 | 3.62 | 3.22 |
| 1/1 | 1/1 | 3.9 | 5.82 |
| 1/1 | 0/1 | 5.32 | 2.03 |
| 1/1 | 0/1 | 5.46 | 2.53 |
| 1/1 | 0/1 | 5.66 | 2.88 |
| 1/1 | 1/1 | 5.02 | 4.37 |
| 1/1 | 0/1 | 3 | 2.44 |
| 1/1 | 1/1 | 6 | 5.56 |
| 1/1 | 1/1 | 6.66 | 6.25 |
| 1/1 | 1/1 | 9.37 | 8.97 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.38 | 4.33 |
| 0/1 | 1/1 | 3.42 | 3.37 |
| 1/1 | 1/1 | 11.21 | 11.17 |
| 0/1 | 1/1 | 2.35 | 2.58 |
| 1/1 | 1/1 | 4.81 | 3.42 |
| 1/1 | 1/1 | 5.26 | 4.27 |
| 1/1 | 1/1 | 4.05 | 3.22 |
| 1/1 | 0/1 | 2.86 | 1.9 |
| 1/1 | 1/1 | 5.4 | 4.65 |
| 1/1 | 1/1 | 5.5 | 4.82 |
| 1/1 | 1/1 | 11.46 | 10.89 |
| 1/1 | 0/1 | 3.64 | 3.24 |
| 0/1 | 1/1 | 2.46 | 4.46 |
| 0/1 | 1/1 | 2.62 | 4.76 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 0/1 | 1/1 | 4.29 | 6.59 |
| 1/1 | 0/1 | 5.94 | 3.66 |
| 0/1 | 1/1 | 8.83 | 9.42 |
| 1/1 | 1/1 | 5.19 | 4.13 |
| 1/1 | 1/1 | 7.33 | 6.68 |
| 1/1 | 1/1 | 7.26 | 5.89 |
| 1/1 | 0/1 | 5.02 | 4.17 |
| 1/1 | 1/1 | 7.27 | 6.49 |
| 1/1 | 1/1 | 6.17 | 3.33 |
| 1/1 | 1/1 | 9.25 | 9.25 |
| 1/1 | 1/1 | 5.82 | 5.83 |
| 1/1 | 1/1 | 8.55 | 8.92 |
| 1/1 | 1/1 | 9.72 | 10.22 |
| 1/1 | 0/1 | 6.19 | 3.37 |
| 1/1 | 0/1 | 5.4 | 2.75 |
| 1/1 | 0/1 | 5.93 | 3.52 |
| 1/1 | 1/1 | 5.54 | 3.2 |
| 1/1 | 0/1 | 6.07 | 3.8 |
| 1/1 | 0/1 | 5.21 | 2.96 |
| 1/1 | 1/1 | 5.03 | 4.83 |
| 1/1 | 1/1 | 4.69 | 4.5 |
| 1/1 | 1/1 | 7.78 | 7.61 |
| 0/1 | 1/1 | 8.75 | 8.6 |
| 1/1 | 1/1 | 3.57 | 3.43 |
| 0/1 | 1/1 | 2.34 | 2.23 |
| 1/1 | 1/1 | 4.43 | 4.36 |
| 0/1 | 1/1 | 2.44 | 2.47 |
| 0/1 | 1/1 | 2.17 | 2.21 |
| 1/1 | 1/1 | 5.97 | 6.02 |
| 0/1 | 1/1 | 3.15 | 3.25 |
| 0/1 | 1/1 | 2.55 | 2.65 |
| 0/1 | 1/1 | 3.51 | 3.66 |
| 0/1 | 1/1 | 3.17 | 3.44 |
| 0/1 | 1/1 | 2.34 | 2.66 |
| 0/1 | 1/1 | 2.82 | 3.89 |
| 0/1 | 1/1 | 2.91 | 5.05 |
| 1/1 | 1/1 | 6.15 | 4.23 |
| 1/1 | 1/1 | 7.45 | 6.04 |
| 0/1 | 1/1 | 2.38 | 3.21 |
| 0/1 | 1/1 | 3.31 | 4.46 |
| 1/1 | 1/1 | 8.4 | 7.45 |
| 1/1 | 1/1 | 8.46 | 7.52 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.24 | 7.45 |
| 1/1 | 1/1 | 7.82 | 7.05 |
| 1/1 | 1/1 | 6.53 | 6.17 |
| 0/1 | 1/1 | 3.18 | 4.91 |
| 0/1 | 1/1 | 3.12 | 5.81 |
| 0/1 | 1/1 | 3.43 | 8.37 |
| 1/1 | 1/1 | 5.31 | 4.39 |
| 1/1 | 1/1 | 5.79 | 4.95 |
| 1/1 | 1/1 | 5.35 | 4.72 |
| 1/1 | 1/1 | 7.88 | 7.29 |
| 1/1 | 0/1 | 4.04 | 3.45 |
| 1/1 | 1/1 | 4.05 | 3.71 |
| 1/1 | 1/1 | 3.74 | 3.28 |
| 1/1 | 1/1 | 8.36 | 7.97 |
| 0/1 | 1/1 | 3.51 | 3.13 |
| 1/1 | 1/1 | 12.29 | 12.31 |
| 1/1 | 1/1 | 3.25 | 3.33 |
| 1/1 | 1/1 | 7.13 | 7.24 |
| 1/1 | 1/1 | 2.96 | 2.64 |
| 1/1 | 1/1 | 6.74 | 6.57 |
| 1/1 | 1/1 | 4.89 | 5.06 |
| 0/1 | 1/1 | 3.2 | 5.62 |
| 0/1 | 1/1 | 2.4 | 4.85 |
| 1/1 | 1/1 | 3.47 | 6.19 |
| 1/1 | 1/1 | 5.9 | 5.14 |
| 1/1 | 1/1 | 5.89 | 7.83 |
| 1/1 | 0/1 | 4.35 | 3.18 |
| 1/1 | 1/1 | 6.11 | 5.47 |
| 1/1 | 1/1 | 8.52 | 7.93 |
| 1/1 | 1/1 | 5.44 | 4.64 |
| 1/1 | 1/1 | 4.44 | 3.73 |
| 1/1 | 1/1 | 6.88 | 6.29 |
| 1/1 | 1/1 | 4.25 | 3.8 |
| 1/1 | 1/1 | 4.7 | 4.31 |
| 1/1 | 1/1 | 3.58 | 3.25 |
| 1/1 | 1/1 | 6.53 | 9.07 |
| 1/1 | 1/1 | 3.59 | 7.6 |
| 1/1 | 1/1 | 5.25 | 3.63 |
| 1/1 | 1/1 | 7.9 | 6.7 |
| 1/1 | 1/1 | 6.95 | 5.9 |
| 1/1 | 1/1 | 6.94 | 7.96 |
| 0/1 | 1/1 | 2.25 | 3.42 |
| 1/1 | 1/1 | 7.05 | 6.57 |
| 1/1 | 1/1 | 8.42 | 7.99 |
| 1/1 | 1/1 | 7.9 | 7.61 |
| 1/1 | 1/1 | 10.6 | 10.32 |
| 1/1 | 1/1 | 7.98 | 7.88 |
| 0/1 | 1/1 | 3.22 | 3.17 |
| 0/1 | 1/1 | 3.77 | 8.17 |
| 1/1 | 1/1 | 6.69 | 6.13 |
| 1/1 | 1/1 | 4.7 | 4.38 |
| 0/1 | 1/1 | 5.12 | 4.88 |
| 1/1 | 1/1 | 6.35 | 6.19 |
| 1/1 | 1/1 | 6.76 | 6.67 |
| 0/1 | 1/1 | 6.4 | 6.32 |
| 1/1 | 1/1 | 4.95 | 7.01 |
| 1/1 | 1/1 | 5.87 | 8.11 |
| 1/1 | 1/1 | 9.72 | 4.79 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.27 | 4.57 |
| 1/1 | 1/1 | 7.75 | 3.14 |
| 1/1 | 1/1 | 7.4 | 2.83 |
| 1/1 | 1/1 | 8.31 | 3.93 |
| 1/1 | 0/1 | 7.48 | 5.44 |
| 1/1 | 1/1 | 10.8 | 8.93 |
| 1/1 | 1/1 | 10.87 | 9.15 |
| 1/1 | 1/1 | 10.1 | 8.41 |
| 1/1 | 1/1 | 11.48 | 10.19 |
| 1/1 | 0/1 | 8.1 | 6.94 |
| 1/1 | 1/1 | 7.75 | 6.61 |
| 1/1 | 0/1 | 7.37 | 6.94 |
| 1/1 | 1/1 | 3.95 | 3.65 |
| 1/1 | 1/1 | 6.16 | 6.15 |
| 1/1 | 1/1 | 10.75 | 10.9 |
| 1/1 | 1/1 | 8.94 | 8.12 |
| 1/1 | 1/1 | 3.38 | 2.76 |
| 1/1 | 1/1 | 6.86 | 6.41 |
| 1/1 | 1/1 | 7.77 | 7.34 |
| 1/1 | 1/1 | 8.08 | 7.67 |
| 0/1 | 1/1 | 7 | 6.65 |
| 1/1 | 1/1 | 7.41 | 7.09 |
| 1/1 | 1/1 | 10.53 | 10.23 |
| 1/1 | 1/1 | 7.19 | 9.81 |
| 1/1 | 1/1 | 3.18 | 6.1 |
| 1/1 | 1/1 | 6.18 | 9.15 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 8.84 | 8.53 |
| 1/1 | 1/1 | 5.38 | 5.23 |
| 1/1 | 1/1 | 5.01 | 5 |
| 1/1 | 1/1 | 7.31 | 9.59 |
| 1/1 | 1/1 | 8.8 | 11.24 |
| 1/1 | 1/1 | 7.68 | 10.28 |
| 1/1 | 0/1 | 4.67 | 3.38 |
| 1/1 | 1/1 | 6.78 | 5.92 |
| 0/1 | 1/1 | 3.15 | 4.51 |
| 1/1 | 1/1 | 4.03 | 5.45 |
| 0/1 | 1/1 | 3.7 | 5.24 |
| 0/1 | 1/1 | 4.09 | 5.74 |
| 1/1 | 0/1 | 4.64 | 2.44 |
| 1/1 | 1/1 | 5.67 | 6.09 |
| 1/1 | 1/1 | 6.53 | 7.02 |
| 0/1 | 1/1 | 3.5 | 4.24 |
| 1/1 | 1/1 | 4.5 | 3.27 |
| 1/1 | 1/1 | 4.56 | 3.8 |
| 1/1 | 1/1 | 8.45 | 5.65 |
| 1/1 | 1/1 | 8.69 | 8.7 |
| 1/1 | 1/1 | 7.12 | 7.15 |
| 1/1 | 1/1 | 11.61 | 11.71 |
| 0/1 | 1/1 | 6.7 | 6.98 |
| 1/1 | 1/1 | 4.12 | 4.51 |
| 1/1 | 1/1 | 5.41 | 6.39 |
| 1/1 | 0/1 | 4.52 | 2.7 |
| 1/1 | 1/1 | 2.49 | 3.46 |
| 0/1 | 1/1 | 2.59 | 3.91 |
| 1/1 | 1/1 | 4.02 | 5.47 |
| 1/1 | 0/1 | 5.21 | 3.46 |
| 1/1 | 1/1 | 4.9 | 5.92 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 2.5 | 3.56 |
| 1/1 | 1/1 | 4.3 | 5.52 |
| 1/1 | 1/1 | 4.23 | 5.57 |
| 0/1 | 1/1 | 2.69 | 4.39 |
| 1/1 | 1/1 | 10.68 | 6.28 |
| 1/1 | 1/1 | 11.26 | 7.11 |
| 1/1 | 1/1 | 7.5 | 6.14 |
| 1/1 | 1/1 | 6.45 | 5.25 |
| 1/1 | 0/1 | 3.53 | 2.41 |
| 1/1 | 1/1 | 8.5 | 7.69 |
| 1/1 | 1/1 | 4.41 | 3.86 |
| 1/1 | 1/1 | 9.57 | 9.45 |
| 1/1 | 0/1 | 3.13 | 3.21 |
| 1/1 | 1/1 | 3.14 | 3.26 |
| 1/1 | 1/1 | 2.83 | 3.21 |
| 0/1 | 1/1 | 3.58 | 4.23 |
| 1/1 | 1/1 | 5.3 | 3.93 |
| 1/1 | 1/1 | 9.48 | 8.32 |
| 1/1 | 1/1 | 5.99 | 4.9 |
| 1/1 | 1/1 | 4.99 | 4.17 |
| 1/1 | 0/1 | 3.78 | 2.05 |
| 1/1 | 1/1 | 6.46 | 4.96 |
| 1/1 | 1/1 | 5.78 | 4.5 |
| 1/1 | 1/1 | 7.42 | 8.35 |
| 1/1 | 1/1 | 3.93 | 5.26 |
| 1/1 | 1/1 | 7.59 | 7.19 |
| 0/1 | 1/1 | 5 | 4.7 |
| 1/1 | 1/1 | 8.76 | 8.49 |
| 0/1 | 1/1 | 4.61 | 4.45 |
| 1/1 | 1/1 | 4.53 | 4.39 |
| 1/1 | 1/1 | 7.65 | 7.51 |
| 1/1 | 1/1 | 6.91 | 6.82 |
| 1/1 | 1/1 | 3.76 | 3.67 |
| 1/1 | 1/1 | 5.88 | 5.88 |
| 1/1 | 1/1 | 9.48 | 9.58 |
| 1/1 | 1/1 | 9.17 | 9.27 |
| 1/1 | 1/1 | 7.17 | 7.28 |
| 1/1 | 1/1 | 4.03 | 4.15 |
| 1/1 | 1/1 | 6.95 | 7.12 |
| 0/1 | 1/1 | 2.7 | 2.87 |
| 1/1 | 1/1 | 3.46 | 5.83 |
| 1/1 | 1/1 | 3.31 | 6.31 |
| 1/1 | 1/1 | 5.32 | 3.73 |
| 1/1 | 1/1 | 7.29 | 6.15 |
| 1/1 | 1/1 | 5.06 | 6.31 |
| 0/1 | 1/1 | 2.01 | 3.42 |
| 1/1 | 1/1 | 8.35 | 7.63 |
| 1/1 | 1/1 | 9.13 | 8.66 |
| 1/1 | 1/1 | 8.46 | 8.17 |
| 0/1 | 1/1 | 4.2 | 3.98 |
| 1/1 | 0/1 | 3.12 | 2 |
| 1/1 | 0/1 | 3.38 | 2.36 |
| 1/1 | 1/1 | 4.58 | 4.04 |
| 1/1 | 0/1 | 5.14 | 3.42 |
| 1/1 | 1/1 | 4.22 | 5.23 |
| 1/1 | 1/1 | 4.49 | 4.22 |
| 0/1 | 1/1 | 6.93 | 6.78 |
| 1/1 | 1/1 | 5.11 | 5.26 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 8.92 | 9.08 |
| 1/1 | 1/1 | 6.45 | 6.65 |
| 0/1 | 1/1 | 3.35 | 3.58 |
| 1/1 | 1/1 | 4.08 | 4.07 |
| 1/1 | 1/1 | 5.31 | 5.42 |
| 1/1 | 1/1 | 4.84 | 5 |
| 1/1 | 1/1 | 5.47 | 5.99 |
| 1/1 | 1/1 | 4.48 | 7.5 |
| 1/1 | 0/1 | 5.73 | 4.4 |
| 1/1 | 1/1 | 8.52 | 7.73 |
| 1/1 | 1/1 | 5.79 | 7.11 |
| 1/1 | 0/1 | 9.58 | 5.78 |
| 1/1 | 1/1 | 7.08 | 6 |
| 1/1 | 0/1 | 6.46 | 5.43 |
| 1/1 | 0/1 | 3.38 | 2.41 |
| 1/1 | 1/1 | 6.35 | 5.51 |
| 1/1 | 1/1 | 3.35 | 2.55 |
| 1/1 | 1/1 | 4.66 | 3.95 |
| 1/1 | 1/1 | 4.36 | 3.67 |
| 1/1 | 1/1 | 5.96 | 5.34 |
| 1/1 | 1/1 | 7.93 | 7.35 |
| 1/1 | 1/1 | 5.49 | 4.98 |
| 1/1 | 1/1 | 6.15 | 5.7 |
| 1/1 | 1/1 | 6.11 | 5.69 |
| 1/1 | 1/1 | 3.42 | 3.1 |
| 1/1 | 1/1 | 4.28 | 4.04 |
| 1/1 | 1/1 | 2.97 | 2.74 |
| 0/1 | 1/1 | 3.7 | 3.51 |
| 1/1 | 1/1 | 7.2 | 7.16 |
| 1/1 | 1/1 | 3.47 | 3.74 |
| 0/1 | 1/1 | 2.56 | 3.08 |
| 0/1 | 1/1 | 3.65 | 4.17 |
| 1/1 | 1/1 | 4.58 | 4.39 |
| 0/1 | 1/1 | 5.2 | 5.06 |
| 1/1 | 1/1 | 7.7 | 7.7 |
| 1/1 | 1/1 | 5.57 | 5.65 |
| 0/1 | 1/1 | 4.37 | 4.54 |
| 1/1 | 1/1 | 6.35 | 6.54 |
| 0/1 | 1/1 | 6.44 | 6.69 |
| 0/1 | 1/1 | 5.3 | 5.56 |
| 0/1 | 1/1 | 5.36 | 5.68 |
| 0/1 | 1/1 | 4.65 | 5.02 |
| 0/1 | 1/1 | 4.48 | 7.07 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 6.61 | 10.13 |
| 1/1 | 1/1 | 4.53 | 3.22 |
| 1/1 | 1/1 | 4.55 | 3.78 |
| 0/1 | 1/1 | 2.24 | 4.02 |
| 1/1 | 1/1 | 7.66 | 6.53 |
| 1/1 | 1/1 | 7.9 | 6.86 |
| 0/1 | 1/1 | 4.35 | 5.99 |
| 0/1 | 1/1 | 4.19 | 6.41 |
| 1/1 | 1/1 | 5.39 | 5.26 |
| 1/1 | 1/1 | 6.12 | 6 |
| 1/1 | 1/1 | 5.86 | 5.74 |
| 0/1 | 1/1 | 3.96 | 3.87 |
| 0/1 | 1/1 | 4.67 | 4.65 |
| 1/1 | 1/1 | 3.95 | 3.97 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 7.63 | 7.74 |
| 1/1 | 1/1 | 9.5 | 9.79 |
| 1/1 | 1/1 | 6.84 | 7.16 |
| 0/1 | 1/1 | 3.57 | 3.89 |
| 0/1 | 1/1 | 3.12 | 3.47 |
| 0/1 | 1/1 | 4.97 | 7.47 |
| 1/1 | 1/1 | 4.65 | 7.31 |
| 1/1 | 1/1 | 8.27 | 8 |
| 1/1 | 1/1 | 7.55 | 7.31 |
| 1/1 | 1/1 | 5.23 | 5 |
| 1/1 | 1/1 | 10.33 | 10.18 |
| 1/1 | 1/1 | 6.79 | 6.88 |
| 1/1 | 1/1 | 8.22 | 8.45 |
| 1/1 | 1/1 | 6.34 | 6.6 |
| 1/1 | 1/1 | 6.99 | 7.25 |
| 1/1 | 1/1 | 4.64 | 3.71 |
| 1/1 | 1/1 | 8.61 | 8 |
| 1/1 | 1/1 | 7.69 | 7.11 |
| 1/1 | 1/1 | 7.98 | 7.4 |
| 1/1 | 1/1 | 10.36 | 9.87 |
| 0/1 | 1/1 | 2.52 | 4.21 |
| 1/1 | 0/1 | 2.91 | 1.82 |
| 1/1 | 0/1 | 2.61 | 1.72 |
| 1/1 | 1/1 | 4.03 | 3.43 |
| 1/1 | 1/1 | 5.23 | 6.73 |
| 0/1 | 1/1 | 1.82 | 3.77 |
| 0/1 | 1/1 | 1.97 | 3.94 |
| 0/1 | 1/1 | 3.04 | 5.53 |
| 1/1 | 1/1 | 5.76 | 4.32 |
| 1/1 | 1/1 | 5.42 | 4.32 |
| 0/1 | 1/1 | 4.57 | 5.83 |
| 1/1 | 1/1 | 9.31 | 8.97 |
| 1/1 | 1/1 | 9.07 | 8.98 |
| 1/1 | 1/1 | 4.13 | 4.35 |
| 1/1 | 1/1 | 2.6 | 5.16 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 8.96 | 8.78 |
| 1/1 | 1/1 | 9.16 | 9.01 |
| 1/1 | 1/1 | 5.38 | 5.23 |
| 1/1 | 1/1 | 8.36 | 8.28 |
| 1/1 | 1/1 | 6.47 | 6.44 |
| 1/1 | 1/1 | 10.51 | 9.04 |
| 1/1 | 1/1 | 9.39 | 8.26 |
| 0/1 | 1/1 | 3.56 | 5.34 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 7.3 | 6.65 |
| 0/1 | 1/1 | 3.04 | 4.93 |
| 0/1 | 1/1 | 4.29 | 6.59 |
| 1/1 | 1/1 | 4.92 | 4.04 |
| 1/1 | 1/1 | 3.16 | 2.51 |
| 1/1 | 0/1 | 3.94 | 2.41 |
| 1/1 | 1/1 | 4.61 | 5.71 |
| 1/1 | 1/1 | 5.15 | 6.36 |
| 1/1 | 1/1 | 4.57 | 3.9 |
| 1/1 | 1/1 | 4.65 | 3.99 |
| 1/1 | 1/1 | 7.61 | 7.13 |
| 1/1 | 1/1 | 6.88 | 6.49 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.88 | 4.54 |
| 1/1 | 1/1 | 6.19 | 5.98 |
| 0/1 | 1/1 | 2.72 | 2.59 |
| 1/1 | 1/1 | 6.44 | 6.34 |
| 1/1 | 1/1 | 6.16 | 4.91 |
| 1/1 | 1/1 | 4.29 | 5.64 |
| 0/1 | 1/1 | 3.76 | 5.62 |
| 1/1 | 1/1 | 3.16 | 5.06 |
| 1/1 | 1/1 | 5.4 | 3.63 |
| 1/1 | 1/1 | 4.43 | 5.59 |
| 0/1 | 1/1 | 2.61 | 3.98 |
| 0/1 | 1/1 | 4.12 | 5.84 |
| 1/1 | 1/1 | 7.97 | 7.3 |
| 1/1 | 1/1 | 6.36 | 6.11 |
| 1/1 | 0/1 | 3.63 | 2.57 |
| 1/1 | 1/1 | 4.63 | 4.07 |
| 1/1 | 1/1 | 6.43 | 3.51 |
| 1/1 | 1/1 | 7.23 | 4.7 |
| 1/1 | 1/1 | 6.82 | 4.47 |
| 1/1 | 1/1 | 7.3 | 7.06 |
| 1/1 | 1/1 | 8.98 | 9.59 |
| 1/1 | 1/1 | 4.04 | 3.13 |
| 1/1 | 1/1 | 7.7 | 6.9 |
| 1/1 | 1/1 | 7.95 | 7.37 |
| 1/1 | 1/1 | 5.27 | 4.8 |
| 0/1 | 1/1 | 4.88 | 7.03 |
| 1/1 | 1/1 | 5.95 | 3.53 |
| 1/1 | 1/1 | 6.64 | 4.3 |
| 1/1 | 1/1 | 5.94 | 3.73 |
| 1/1 | 1/1 | 5.92 | 4 |
| 1/1 | 1/1 | 4.97 | 3.47 |
| 1/1 | 1/1 | 9.25 | 8.04 |
| 1/1 | 1/1 | 4.82 | 5.97 |
| 1/1 | 1/1 | 4.58 | 5.9 |
| 1/1 | 1/1 | 4.13 | 5.92 |
| 1/1 | 1/1 | 9.24 | 5.89 |
| 1/1 | 1/1 | 7.43 | 4.31 |
| 1/1 | 1/1 | 9.55 | 6.72 |
| 1/1 | 1/1 | 9.38 | 9.03 |
| 1/1 | 1/1 | 12.32 | 12.36 |
| 1/1 | 1/1 | 9.25 | 8.18 |
| 1/1 | 1/1 | 9.61 | 8.58 |
| 1/1 | 1/1 | 8.09 | 7.06 |
| 1/1 | 1/1 | 8.69 | 7.71 |
| 1/1 | 1/1 | 9 | 8.04 |
| 1/1 | 1/1 | 7.7 | 6.77 |
| 1/1 | 1/1 | 7.9 | 6.99 |
| 1/1 | 1/1 | 7.51 | 6.67 |
| 1/1 | 1/1 | 7.56 | 6.72 |
| 1/1 | 1/1 | 7.47 | 6.66 |
| 1/1 | 1/1 | 10.41 | 9.6 |
| 1/1 | 1/1 | 10.72 | 9.93 |
| 1/1 | 1/1 | 9.86 | 9.07 |
| 1/1 | 1/1 | 3.76 | 3.04 |
| 1/1 | 1/1 | 10.12 | 9.43 |
| 1/1 | 1/1 | 9.11 | 8.47 |
| 1/1 | 1/1 | 7.92 | 7.32 |
| 1/1 | 1/1 | 8.33 | 7.73 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.87 | 5.39 |
| 0/1 | 1/1 | 3.92 | 5.83 |
| 1/1 | 1/1 | 5.37 | 4.63 |
| 1/1 | 1/1 | 5.74 | 5.14 |
| 1/1 | 1/1 | 6.77 | 6.5 |
| 0/1 | 1/1 | 2.45 | 4.4 |
| 0/1 | 1/1 | 2.98 | 5.22 |
| 1/1 | 1/1 | 5.89 | 8.16 |
| 1/1 | 0/1 | 3.21 | 2.03 |
| 1/1 | 1/1 | 5.97 | 5.05 |
| 1/1 | 1/1 | 6.56 | 5.72 |
| 1/1 | 0/1 | 2.9 | 2.11 |
| 1/1 | 1/1 | 3.72 | 3 |
| 1/1 | 1/1 | 4.16 | 3.55 |
| 1/1 | 0/1 | 4.4 | 3.14 |
| 1/1 | 1/1 | 4.97 | 3.94 |
| 1/1 | 1/1 | 7.98 | 7.27 |
| 1/1 | 1/1 | 3.89 | 5.47 |
| 0/1 | 1/1 | 3.08 | 4.87 |
| 0/1 | 1/1 | 3.22 | 5.11 |
| 1/1 | 1/1 | 4.01 | 6.19 |
| 1/1 | 1/1 | 5.87 | 4.92 |
| 1/1 | 1/1 | 5.98 | 5.21 |
| 1/1 | 1/1 | 5.67 | 5.14 |
| 1/1 | 0/1 | 2.48 | 2.05 |
| 1/1 | 1/1 | 2.97 | 2.57 |
| 1/1 | 1/1 | 5.33 | 4.95 |
| 1/1 | 1/1 | 4.95 | 3.39 |
| 1/1 | 1/1 | 4.02 | 6.3 |
| 1/1 | 0/1 | 5.42 | 3.01 |
| 1/1 | 0/1 | 5.3 | 3.37 |
| 1/1 | 0/1 | 7.43 | 5.58 |
| 1/1 | 1/1 | 6.31 | 6.5 |
| 1/1 | 1/1 | 5.18 | 5.52 |
| 0/1 | 1/1 | 3.02 | 3.61 |
| 0/1 | 1/1 | 2.39 | 3.28 |
| 1/1 | 0/1 | 3.93 | 3.2 |
| 1/1 | 0/1 | 4.43 | 3.88 |
| 1/1 | 1/1 | 2.34 | 2.05 |
| 1/1 | 1/1 | 6.54 | 6.29 |
| 1/1 | 1/1 | 4.05 | 3.82 |
| 1/1 | 1/1 | 3.68 | 5.59 |
| 0/1 | 1/1 | 2.56 | 4.53 |
| 1/1 | 1/1 | 6.1 | 4.54 |
| 1/1 | 1/1 | 4.2 | 2.77 |
| 1/1 | 1/1 | 3.4 | 2.37 |
| 1/1 | 0/1 | 2.8 | 1.97 |
| 1/1 | 1/1 | 5.1 | 4.41 |
| 1/1 | 0/1 | 5.41 | 4.79 |
| 1/1 | 1/1 | 3.95 | 5.52 |
| 0/1 | 1/1 | 3.2 | 4.79 |
| 1/1 | 1/1 | 9.09 | 7.88 |
| 1/1 | 1/1 | 5.07 | 4.29 |
| 1/1 | 0/1 | 3.52 | 2.39 |
| 1/1 | 1/1 | 3.45 | 2.45 |
| 1/1 | 1/1 | 5.26 | 4.27 |
| 1/1 | 1/1 | 4.05 | 3.22 |
| 1/1 | 1/1 | 6.37 | 5.64 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.34 | 3.68 |
| 1/1 | 1/1 | 8.4 | 7.83 |
| 1/1 | 1/1 | 4.41 | 6.21 |
| 1/1 | 1/1 | 11.14 | 10.42 |
| 1/1 | 1/1 | 5.73 | 5.14 |
| 1/1 | 0/1 | 5.91 | 5.36 |
| 0/1 | 1/1 | 5.39 | 4.87 |
| 1/1 | 1/1 | 7.77 | 7.37 |
| 1/1 | 1/1 | 7.93 | 7.55 |
| 1/1 | 1/1 | 8.68 | 8.41 |
| 1/1 | 1/1 | 7.88 | 7.7 |
| 1/1 | 1/1 | 9.67 | 11.7 |
| 1/1 | 1/1 | 9.81 | 8.96 |
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.32 | 9.84 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 4.28 | 3.93 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 1/1 | 9.81 | 8.96 |
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.34 | 9.85 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 1/1 | 9.81 | 8.96 |
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.34 | 9.85 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 1/1 | 9.81 | 8.96 |
| 1/1 | 1/1 | 3.21 | 2.6 |
| 1/1 | 1/1 | 10.32 | 9.84 |
| 1/1 | 1/1 | 7.75 | 7.27 |
| 1/1 | 1/1 | 8.45 | 7.97 |
| 1/1 | 1/1 | 8.2 | 7.75 |
| 1/1 | 1/1 | 6.49 | 6.06 |
| 1/1 | 1/1 | 4.28 | 3.93 |
| 1/1 | 1/1 | 9.04 | 8.69 |
| 1/1 | 1/1 | 10.06 | 9.77 |
| 1/1 | 1/1 | 6.72 | 6.44 |
| 1/1 | 0/1 | 4.17 | 2.34 |
| 1/1 | 1/1 | 4.29 | 2.52 |
| 1/1 | 1/1 | 6.04 | 4.57 |
| 1/1 | 1/1 | 11.75 | 10.29 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.47 | 4.34 |
| 0/1 | 1/1 | 3.08 | 4.03 |
| 1/1 | 1/1 | 3.84 | 2.64 |
| 1/1 | 1/1 | 4.91 | 4.16 |
| 1/1 | 1/1 | 7.58 | 5.69 |
| 1/1 | 1/1 | 6.87 | 5.38 |
| 1/1 | 1/1 | 7.65 | 6.22 |
| 1/1 | 1/1 | 5.51 | 4.1 |
| 1/1 | 0/1 | 4.39 | 3.05 |
| 0/1 | 1/1 | 3.7 | 4.4 |
| 0/1 | 1/1 | 3.46 | 4.17 |
| 1/1 | 1/1 | 3.63 | 4.43 |
| 1/1 | 1/1 | 4.33 | 5.38 |
| 0/1 | 1/1 | 3.98 | 5.45 |
| 1/1 | 1/1 | 8.51 | 7.13 |
| 1/1 | 1/1 | 4.37 | 3.15 |
| 1/1 | 1/1 | 2.91 | 4.23 |
| 0/1 | 1/1 | 2.5 | 3.94 |
| 1/1 | 1/1 | 5.02 | 3.61 |
| 1/1 | 0/1 | 4.61 | 3.23 |
| 1/1 | 0/1 | 3.89 | 2.51 |
| 1/1 | 1/1 | 8.54 | 7.25 |
| 1/1 | 1/1 | 5.74 | 4.59 |
| 1/1 | 1/1 | 4.81 | 3.8 |
| 1/1 | 1/1 | 5.22 | 6.4 |
| 1/1 | 1/1 | 8.74 | 8.16 |
| 0/1 | 1/1 | 7.42 | 7.34 |
| 0/1 | 1/1 | 2.12 | 4.8 |
| 1/1 | 1/1 | 6.49 | 5.33 |
| 1/1 | 1/1 | 5.74 | 4.69 |
| 1/1 | 1/1 | 4.7 | 3.83 |
| 1/1 | 1/1 | 7.3 | 6.65 |
| 1/1 | 1/1 | 7.55 | 6.93 |
| 0/1 | 1/1 | 2.92 | 4.35 |
| 0/1 | 1/1 | 4.29 | 6.59 |
| 0/1 | 1/1 | 2.67 | 5.11 |
| 1/1 | 1/1 | 9.43 | 8.15 |
| 1/1 | 1/1 | 10.98 | 10.05 |
| 1/1 | 1/1 | 5.17 | 4.26 |
| 1/1 | 1/1 | 4.72 | 6.27 |
| 1/1 | 1/1 | 7.07 | 5.98 |
| 1/1 | 1/1 | 7.14 | 6.54 |
| 1/1 | 1/1 | 9.65 | 9.11 |
| 0/1 | 1/1 | 2.85 | 4.9 |
| 1/1 | 1/1 | 6.92 | 6.55 |
| 1/1 | 1/1 | 9.33 | 9 |
| 1/1 | 1/1 | 6.35 | 6.24 |
| 1/1 | 1/1 | 13.11 | 13.07 |
| 1/1 | 1/1 | 12.9 | 13.03 |
| 1/1 | 1/1 | 6.82 | 9.2 |
| 1/1 | 1/1 | 5.67 | 9.22 |
| 1/1 | 1/1 | 6.47 | 5.26 |
| 1/1 | 0/1 | 5.21 | 4.29 |
| 1/1 | 1/1 | 7.09 | 6.44 |
| 1/1 | 1/1 | 4.21 | 3.57 |
| 0/1 | 1/1 | 3.74 | 5.12 |
| 1/1 | 1/1 | 5.65 | 7.09 |
| 1/1 | 0/1 | 4.87 | 3.22 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.09 | 7.56 |
| 1/1 | 0/1 | 4.46 | 2.96 |
| 1/1 | 1/1 | 6.12 | 4.89 |
| 1/1 | 1/1 | 5.94 | 5.52 |
| 1/1 | 1/1 | 6.63 | 6.32 |
| 1/1 | 1/1 | 9.86 | 9.62 |
| 1/1 | 1/1 | 8.41 | 8.29 |
| 1/1 | 1/1 | 8.85 | 8.8 |
| 1/1 | 1/1 | 7.56 | 7.58 |
| 1/1 | 1/1 | 7.64 | 7.69 |
| 1/1 | 1/1 | 8.63 | 8.74 |
| 1/1 | 1/1 | 6.68 | 6.82 |
| 1/1 | 1/1 | 6.49 | 6.63 |
| 1/1 | 1/1 | 7.94 | 5.46 |
| 1/1 | 1/1 | 11.29 | 11.44 |
| 1/1 | 1/1 | 4.29 | 3.05 |
| 1/1 | 0/1 | 4.78 | 3.93 |
| 1/1 | 1/1 | 6.8 | 6.06 |
| 0/1 | 1/1 | 3.13 | 4.69 |
| 0/1 | 1/1 | 2.96 | 4.62 |
| 1/1 | 0/1 | 9.97 | 9.33 |
| 1/1 | 1/1 | 5.52 | 4.89 |
| 0/1 | 1/1 | 3 | 5.85 |
| 1/1 | 1/1 | 9.2 | 8.66 |
| 1/1 | 1/1 | 5.58 | 5.41 |
| 0/1 | 1/1 | 5.21 | 5.07 |
| 0/1 | 1/1 | 2.74 | 2.6 |
| 0/1 | 1/1 | 2.28 | 2.29 |
| 1/1 | 1/1 | 4.02 | 6.42 |
| 1/1 | 1/1 | 5.6 | 4.84 |
| 1/1 | 1/1 | 3.43 | 2.82 |
| 1/1 | 1/1 | 3.54 | 3.3 |
| 0/1 | 1/1 | 3.39 | 5.41 |
| 1/1 | 1/1 | 5.82 | 4.68 |
| 1/1 | 1/1 | 6.68 | 6.09 |
| 0/1 | 1/1 | 2.77 | 4.2 |
| 0/1 | 1/1 | 4.17 | 6.07 |
| 0/1 | 1/1 | 4.47 | 6.39 |
| 0/1 | 1/1 | 3.76 | 5.76 |
| 1/1 | 1/1 | 6.67 | 2.94 |
| 1/1 | 1/1 | 9.04 | 5.4 |
| 1/1 | 1/1 | 7.61 | 4.28 |
| 1/1 | 1/1 | 7.21 | 6.05 |
| 1/1 | 1/1 | 4.17 | 3.08 |
| 1/1 | 1/1 | 8.37 | 7.3 |
| 1/1 | 1/1 | 6.93 | 5.88 |
| 1/1 | 1/1 | 6.03 | 5.02 |
| 1/1 | 0/1 | 3.35 | 2.38 |
| 1/1 | 1/1 | 8.35 | 7.4 |
| 1/1 | 1/1 | 4.2 | 3.38 |
| 1/1 | 1/1 | 7.7 | 6.99 |
| 1/1 | 1/1 | 6.54 | 5.86 |
| 1/1 | 1/1 | 3.82 | 3.18 |
| 1/1 | 1/1 | 6.84 | 6.2 |
| 1/1 | 1/1 | 3.66 | 3.09 |
| 1/1 | 1/1 | 4.93 | 4.39 |
| 1/1 | 1/1 | 7.67 | 7.15 |
| 1/1 | 0/1 | 2.59 | 2.25 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.02 | 2.7 |
| 1/1 | 1/1 | 4.46 | 4.79 |
| 0/1 | 1/1 | 2.14 | 2.74 |
| 1/1 | 0/1 | 4.86 | 2.38 |
| 1/1 | 0/1 | 4.48 | 2.48 |
| 0/1 | 1/1 | 5.52 | 5.71 |
| 1/1 | 1/1 | 3.37 | 3.65 |
| 0/1 | 1/1 | 3.34 | 3.77 |
| 1/1 | 1/1 | 8.66 | 9.44 |
| 1/1 | 1/1 | 3.87 | 2.44 |
| 1/1 | 1/1 | 6.8 | 5.37 |
| 1/1 | 0/1 | 3.98 | 2.61 |
| 1/1 | 1/1 | 6.51 | 5.54 |
| 1/1 | 1/1 | 4.38 | 5.66 |
| 1/1 | 1/1 | 4.7 | 4.29 |
| 1/1 | 1/1 | 5.35 | 5.08 |
| 1/1 | 1/1 | 3.94 | 3.71 |
| 1/1 | 1/1 | 7.37 | 7.24 |
| 0/1 | 1/1 | 5.96 | 5.84 |
| 0/1 | 1/1 | 5.76 | 5.69 |
| 1/1 | 1/1 | 4.22 | 4.25 |
| 0/1 | 1/1 | 4.91 | 5.01 |
| 0/1 | 1/1 | 3.69 | 6.3 |
| 1/1 | 1/1 | 4.53 | 7.57 |
| 0/1 | 1/1 | 2.87 | 6.06 |
| 1/1 | 1/1 | 8.97 | 8.36 |
| 1/1 | 1/1 | 6.26 | 5.93 |
| 1/1 | 1/1 | 5.41 | 5.2 |
| 0/1 | 1/1 | 2.88 | 4.97 |
| 0/1 | 1/1 | 4.78 | 4.3 |
| 0/1 | 1/1 | 3.84 | 3.88 |
| 1/1 | 1/1 | 6.26 | 8.41 |
| 1/1 | 1/1 | 6.24 | 8.44 |
| 0/1 | 1/1 | 2.27 | 4.55 |
| 1/1 | 1/1 | 5.14 | 8.31 |
| 1/1 | 1/1 | 4.02 | 3.17 |
| 1/1 | 1/1 | 8.07 | 7.45 |
| 1/1 | 1/1 | 3.92 | 3.53 |
| 1/1 | 1/1 | 7.32 | 6.96 |
| 0/1 | 1/1 | 1.91 | 3.64 |
| 1/1 | 1/1 | 4.42 | 6.24 |
| 1/1 | 0/1 | 3.39 | 2.38 |
| 1/1 | 1/1 | 6.28 | 5.66 |
| 1/1 | 1/1 | 6.18 | 5.59 |
| 1/1 | 1/1 | 3.74 | 3.18 |
| 1/1 | 1/1 | 7.28 | 6.77 |
| 1/1 | 1/1 | 4.64 | 4.17 |
| 1/1 | 1/1 | 5.45 | 7.17 |
| 1/1 | 1/1 | 7.39 | 6.89 |
| 0/1 | 1/1 | 3.68 | 3.67 |
| 1/1 | 1/1 | 6 | 6.02 |
| 1/1 | 1/1 | 4.22 | 6.82 |
| 1/1 | 0/1 | 2.97 | 2.37 |
| 1/1 | 1/1 | 5.97 | 5.57 |
| 1/1 | 1/1 | 4.36 | 6.41 |
| 1/1 | 1/1 | 4.9 | 7.26 |
| 1/1 | 1/1 | 5.42 | 4.03 |
| 1/1 | 1/1 | 5.83 | 7.04 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.73 | 8.14 |
| 1/1 | 1/1 | 4.13 | 6.01 |
| 1/1 | 1/1 | 6.08 | 4.26 |
| 1/1 | 0/1 | 4.54 | 2.87 |
| 1/1 | 1/1 | 4.51 | 5.27 |
| 1/1 | 1/1 | 4.5 | 5.79 |
| 1/1 | 0/1 | 7.51 | 6.36 |
| 1/1 | 1/1 | 6.78 | 5.88 |
| 1/1 | 0/1 | 6.89 | 6.17 |
| 1/1 | 0/1 | 7.67 | 7 |
| 1/1 | 1/1 | 3.82 | 3.17 |
| 1/1 | 1/1 | 6.79 | 6.19 |
| 1/1 | 1/1 | 7.4 | 6.8 |
| 0/1 | 1/1 | 3.94 | 5.55 |
| 0/1 | 1/1 | 3.75 | 5.69 |
| 1/1 | 1/1 | 3.86 | 3.16 |
| 1/1 | 1/1 | 3.98 | 3.54 |
| 1/1 | 1/1 | 5.25 | 4.98 |
| 1/1 | 0/1 | 4.02 | 2.97 |
| 1/1 | 1/1 | 4.21 | 3.44 |
| 1/1 | 1/1 | 3.66 | 3.08 |
| 1/1 | 1/1 | 3.4 | 2.87 |
| 1/1 | 1/1 | 3.94 | 6.25 |
| 1/1 | 1/1 | 4.84 | 4.16 |
| 1/1 | 1/1 | 7.53 | 6.92 |
| 1/1 | 1/1 | 4.64 | 4.28 |
| 1/1 | 1/1 | 5.92 | 5.65 |
| 1/1 | 1/1 | 9.72 | 9.56 |
| 1/1 | 1/1 | 6.37 | 6.15 |
| 1/1 | 1/1 | 7.78 | 7.87 |
| 1/1 | 1/1 | 5.11 | 5.23 |
| 0/1 | 1/1 | 3.8 | 4.05 |
| 0/1 | 1/1 | 3.83 | 6.46 |
| 1/1 | 1/1 | 4.89 | 7.57 |
| 0/1 | 1/1 | 3.71 | 6.45 |
| 1/1 | 1/1 | 4.15 | 6.93 |
| 1/1 | 1/1 | 4.76 | 4.07 |
| 1/1 | 1/1 | 8.12 | 7.57 |
| 1/1 | 1/1 | 6.06 | 5.73 |
| 1/1 | 1/1 | 4.97 | 4.84 |
| 1/1 | 1/1 | 4.22 | 6.62 |
| 1/1 | 1/1 | 6.16 | 4.6 |
| 1/1 | 1/1 | 6.02 | 4.84 |
| 1/1 | 1/1 | 4.97 | 3.82 |
| 1/1 | 1/1 | 4.61 | 5.7 |
| 0/1 | 1/1 | 2.18 | 3.32 |
| 1/1 | 1/1 | 5.77 | 4.55 |
| 1/1 | 1/1 | 6.14 | 5.12 |
| 1/1 | 1/1 | 7.81 | 5.76 |
| 1/1 | 1/1 | 7.87 | 6.2 |
| 1/1 | 0/1 | 5.15 | 3.62 |
| 1/1 | 0/1 | 6.31 | 4.76 |
| 1/1 | 1/1 | 5.48 | 6.57 |
| 1/1 | 1/1 | 8.16 | 3.33 |
| 1/1 | 1/1 | 8.36 | 6.24 |
| 1/1 | 0/1 | 4.67 | 3.18 |
| 1/1 | 0/1 | 4.12 | 2.79 |
| 1/1 | 1/1 | 3.77 | 2.69 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 2.36 | 1.64 |
| 1/1 | 0/1 | 3.04 | 2.39 |
| 1/1 | 0/1 | 3.07 | 2.83 |
| 1/1 | 0/1 | 5.53 | 4.07 |
| 0/1 | 1/1 | 2.46 | 3.76 |
| 1/1 | 1/1 | 5.3 | 4.31 |
| 1/1 | 1/1 | 9.87 | 9.01 |
| 1/1 | 1/1 | 6.32 | 5.46 |
| 1/1 | 1/1 | 10.36 | 9.52 |
| 1/1 | 0/1 | 3.17 | 2.63 |
| 1/1 | 1/1 | 6.37 | 5.85 |
| 1/1 | 1/1 | 5.34 | 4.89 |
| 1/1 | 1/1 | 7.8 | 7.37 |
| 0/1 | 1/1 | 1.94 | 3.54 |
| 1/1 | 0/1 | 3.87 | 2.52 |
| 1/1 | 1/1 | 7.78 | 6.49 |
| 1/1 | 0/1 | 3.08 | 1.8 |
| 1/1 | 1/1 | 6.56 | 7.82 |
| 1/1 | 1/1 | 4.18 | 3.49 |
| 1/1 | 1/1 | 5.49 | 4.89 |
| 1/1 | 1/1 | 6.86 | 6.6 |
| 1/1 | 1/1 | 10.23 | 9.98 |
| 1/1 | 1/1 | 4.8 | 6.8 |
| 1/1 | 1/1 | 5.34 | 7.72 |
| 1/1 | 1/1 | 3.22 | 5.61 |
| 1/1 | 1/1 | 6.7 | 5.02 |
| 1/1 | 1/1 | 4.02 | 5.01 |
| 0/1 | 1/1 | 2.73 | 3.73 |
| 0/1 | 1/1 | 2.92 | 4.04 |
| 1/1 | 1/1 | 3.05 | 4.25 |
| 0/1 | 1/1 | 2.62 | 4.51 |
| 1/1 | 1/1 | 6.75 | 5.29 |
| 1/1 | 1/1 | 6.47 | 7.58 |
| 1/1 | 1/1 | 4.84 | 5.97 |
| 0/1 | 1/1 | 4.47 | 5.62 |
| 1/1 | 1/1 | 3.13 | 4.36 |
| 1/1 | 1/1 | 5 | 6.27 |
| 1/1 | 1/1 | 5.42 | 6.73 |
| 1/1 | 1/1 | 4.18 | 5.64 |
| 1/1 | 1/1 | 4.02 | 5.62 |
| 1/1 | 1/1 | 5.12 | 6.88 |
| 0/1 | 1/1 | 2.9 | 5.17 |
| 1/1 | 1/1 | 11.39 | 11.31 |
| 1/1 | 1/1 | 5.27 | 5.37 |
| 1/1 | 1/1 | 8.26 | 8.37 |
| 1/1 | 1/1 | 7.43 | 7.76 |
| 1/1 | 1/1 | 6.37 | 6.72 |
| 1/1 | 1/1 | 8.65 | 5.8 |
| 1/1 | 1/1 | 8.76 | 5.98 |
| 1/1 | 1/1 | 8.23 | 5.74 |
| 1/1 | 1/1 | 7.74 | 5.29 |
| 1/1 | 1/1 | 6.86 | 4.46 |
| 1/1 | 1/1 | 9.1 | 8.82 |
| 1/1 | 1/1 | 13.8 | 13.54 |
| 1/1 | 1/1 | 13.36 | 13.11 |
| 1/1 | 1/1 | 13.47 | 13.22 |
| 1/1 | 1/1 | 13.3 | 13.08 |
| 1/1 | 1/1 | 13.67 | 13.46 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 13.39 | 13.18 |
| 1/1 | 1/1 | 13.84 | 13.67 |
| 1/1 | 1/1 | 13.35 | 13.19 |
| 1/1 | 1/1 | 13.17 | 13.17 |
| 1/1 | 1/1 | 10.56 | 10.63 |
| 1/1 | 1/1 | 5.42 | 4.64 |
| 1/1 | 1/1 | 8.01 | 7.27 |
| 1/1 | 1/1 | 9.79 | 9.48 |
| 1/1 | 1/1 | 3.85 | 5.82 |
| 1/1 | 0/1 | 5.22 | 3.63 |
| 1/1 | 1/1 | 6.93 | 5.82 |
| 1/1 | 1/1 | 3.12 | 4.19 |
| 1/1 | 1/1 | 9.44 | 9.14 |
| 1/1 | 1/1 | 9.2 | 9.19 |
| 1/1 | 1/1 | 4.93 | 5.01 |
| 0/1 | 1/1 | 3.41 | 3.49 |
| 1/1 | 1/1 | 4.28 | 6.9 |
| 1/1 | 1/1 | 9.44 | 9.14 |
| 1/1 | 1/1 | 9.2 | 9.19 |
| 1/1 | 1/1 | 4.93 | 5.01 |
| 0/1 | 1/1 | 3.41 | 3.49 |
| 1/1 | 1/1 | 4.28 | 6.9 |
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 9.44 | 9.14 |
| 1/1 | 1/1 | 9.2 | 9.19 |
| 1/1 | 1/1 | 4.93 | 5.01 |
| 0/1 | 1/1 | 3.41 | 3.49 |
| 1/1 | 1/1 | 4.28 | 6.9 |
| 1/1 | 1/1 | 6.35 | 4.15 |
| 1/1 | 1/1 | 6.48 | 6.89 |
| 1/1 | 1/1 | 5.37 | 6.15 |
| 1/1 | 1/1 | 2.78 | 3.67 |
| 1/1 | 0/1 | 5.54 | 4.53 |
| 1/1 | 0/1 | 6.58 | 5.71 |
| 1/1 | 1/1 | 6.34 | 5.52 |
| 1/1 | 1/1 | 2.91 | 2.15 |
| 1/1 | 1/1 | 5.35 | 4.86 |
| 1/1 | 1/1 | 3.95 | 3.47 |
| 1/1 | 0/1 | 4.54 | 3.56 |
| 1/1 | 1/1 | 5.08 | 4.45 |
| 1/1 | 1/1 | 8.94 | 8.36 |
| 1/1 | 0/1 | 4.92 | 4.4 |
| 1/1 | 1/1 | 7.02 | 6.53 |
| 1/1 | 1/1 | 3.96 | 3.15 |
| 1/1 | 1/1 | 9.47 | 8.99 |
| 1/1 | 1/1 | 6.28 | 6.01 |
| 1/1 | 1/1 | 6.02 | 4.92 |
| 1/1 | 1/1 | 5.47 | 4.37 |
| 1/1 | 1/1 | 4.41 | 5.91 |
| 1/1 | 0/1 | 3.15 | 2.73 |
| 1/1 | 1/1 | 5.01 | 4.81 |
| 1/1 | 1/1 | 4.92 | 4.75 |
| 0/1 | 1/1 | 3.03 | 2.91 |
| 1/1 | 1/1 | 2.95 | 2.95 |
| 0/1 | 1/1 | 3.57 | 3.6 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.62 | 5.01 |
| 1/1 | 1/1 | 9.12 | 8.57 |
| 1/1 | 1/1 | 5.17 | 4.7 |
| 1/1 | 1/1 | 7.09 | 6.9 |
| 1/1 | 1/1 | 7.65 | 7.46 |
| 0/1 | 1/1 | 6.41 | 6.29 |
| 1/1 | 1/1 | 10.45 | 10.14 |
| 1/1 | 1/1 | 8.45 | 8.25 |
| 1/1 | 1/1 | 8.22 | 8.16 |
| 1/1 | 1/1 | 8.52 | 8.48 |
| 0/1 | 1/1 | 7.2 | 7.43 |
| 1/1 | 1/1 | 6.11 | 8.55 |
| 0/1 | 1/1 | 3.16 | 6.27 |
| 0/1 | 1/1 | 2.8 | 6.65 |
| 1/1 | 1/1 | 7.72 | 3.91 |
| 1/1 | 1/1 | 9.31 | 6.05 |
| 1/1 | 0/1 | 6.91 | 5.74 |
| 1/1 | 1/1 | 6.73 | 5.62 |
| 1/1 | 1/1 | 6.58 | 5.51 |
| 1/1 | 1/1 | 9.32 | 8.35 |
| 1/1 | 1/1 | 8.84 | 7.9 |
| 1/1 | 1/1 | 8.59 | 7.94 |
| 1/1 | 0/1 | 4.03 | 3.42 |
| 0/1 | 1/1 | 7.48 | 7.73 |
| 1/1 | 1/1 | 5.84 | 4.68 |
| 1/1 | 0/1 | 3.02 | 2.3 |
| 1/1 | 1/1 | 10.98 | 10.38 |
| 1/1 | 1/1 | 5.85 | 4.91 |
| 0/1 | 1/1 | 2.84 | 4.74 |
| 1/1 | 1/1 | 10.03 | 9.25 |
| 1/1 | 1/1 | 6.19 | 5.61 |
| 1/1 | 0/1 | 4.17 | 3.67 |
| 1/1 | 1/1 | 6.81 | 6.34 |
| 1/1 | 0/1 | 3.38 | 2.95 |
| 1/1 | 1/1 | 6.69 | 6.36 |
| 0/1 | 1/1 | 3.63 | 3.35 |
| 1/1 | 0/1 | 5.32 | 3.93 |
| 1/1 | 0/1 | 5.23 | 4.35 |
| 1/1 | 1/1 | 4.75 | 6.01 |
| 1/1 | 1/1 | 5.43 | 4.35 |
| 1/1 | 1/1 | 4.49 | 3.87 |
| 1/1 | 1/1 | 3.07 | 2.45 |
| 1/1 | 1/1 | 5.07 | 4.53 |
| 1/1 | 1/1 | 4.88 | 6.71 |
| 0/1 | 1/1 | 2.39 | 4.31 |
| 1/1 | 1/1 | 3.37 | 5.29 |
| 1/1 | 1/1 | 7.69 | 6.99 |
| 1/1 | 1/1 | 6.45 | 6.09 |
| 0/1 | 1/1 | 4.67 | 6.76 |
| 1/1 | 1/1 | 4.69 | 2.52 |
| 1/1 | 1/1 | 4.94 | 5.41 |
| 1/1 | 1/1 | 7.66 | 7.47 |
| 1/1 | 1/1 | 4.32 | 4.17 |
| 0/1 | 1/1 | 6.54 | 6.67 |
| 1/1 | 1/1 | 4.21 | 6.78 |
| 0/1 | 1/1 | 2.69 | 5.51 |
| 1/1 | 0/1 | 10.59 | 2.48 |
| 1/1 | 0/1 | 10.32 | 2.72 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.4 | 4.97 |
| 1/1 | 1/1 | 9.5 | 4.34 |
| 1/1 | 0/1 | 8.46 | 3.31 |
| 1/1 | 0/1 | 6.98 | 2.18 |
| 1/1 | 1/1 | 7.73 | 3.04 |
| 1/1 | 0/1 | 6.96 | 2.38 |
| 1/1 | 0/1 | 6.61 | 2.26 |
| 1/1 | 0/1 | 4.77 | 1.92 |
| 1/1 | 1/1 | 1.79 | 2.34 |
| 1/1 | 1/1 | 11.3 | 11.37 |
| 0/1 | 1/1 | 5.05 | 5.13 |
| 1/1 | 1/1 | 8.8 | 9.04 |
| 1/1 | 1/1 | 6.35 | 6.77 |
| 0/1 | 1/1 | 5.82 | 6.35 |
| 0/1 | 1/1 | 3.88 | 6.51 |
| 0/1 | 1/1 | 3.56 | 6.22 |
| 0/1 | 1/1 | 3.3 | 6.1 |
| 1/1 | 1/1 | 6.01 | 9.25 |
| 1/1 | 1/1 | 4.27 | 7.97 |
| 1/1 | 1/1 | 4.81 | 4.07 |
| 1/1 | 1/1 | 5.46 | 4.86 |
| 1/1 | 1/1 | 7.12 | 6.64 |
| 1/1 | 1/1 | 7.26 | 6.9 |
| 1/1 | 1/1 | 6.37 | 6.02 |
| 1/1 | 1/1 | 4.34 | 4.01 |
| 1/1 | 1/1 | 6.74 | 6.5 |
| 0/1 | 1/1 | 3.05 | 5.88 |
| 1/1 | 1/1 | 6.5 | 4.27 |
| 1/1 | 1/1 | 5.63 | 3.83 |
| 1/1 | 1/1 | 6.38 | 6.73 |
| 1/1 | 1/1 | 4.69 | 5.22 |
| 1/1 | 1/1 | 3.44 | 3.99 |
| 0/1 | 1/1 | 3.6 | 4.27 |
| 1/1 | 1/1 | 4.74 | 5.55 |
| 0/1 | 1/1 | 3.68 | 4.89 |
| 1/1 | 1/1 | 6.86 | 4.49 |
| 1/1 | 1/1 | 7.53 | 5.28 |
| 1/1 | 1/1 | 5.42 | 5.66 |
| 1/1 | 1/1 | 5.3 | 6.04 |
| 1/1 | 0/1 | 5.85 | 4.14 |
| 0/1 | 1/1 | 4.44 | 5.29 |
| 1/1 | 1/1 | 8.35 | 6.94 |
| 1/1 | 0/1 | 6.82 | 5.61 |
| 1/1 | 0/1 | 3.98 | 2.86 |
| 1/1 | 1/1 | 10.27 | 9.37 |
| 1/1 | 1/1 | 4.99 | 6.16 |
| 1/1 | 1/1 | 5.22 | 6.4 |
| 1/1 | 1/1 | 3.84 | 5.06 |
| 0/1 | 1/1 | 2.35 | 3.68 |
| 1/1 | 1/1 | 5.71 | 4.25 |
| 1/1 | 1/1 | 9.46 | 8.47 |
| 1/1 | 1/1 | 4.97 | 6.08 |
| 1/1 | 0/1 | 5.1 | 3.25 |
| 1/1 | 0/1 | 6.27 | 4.69 |
| 0/1 | 1/1 | 4.55 | 5.44 |
| 0/1 | 1/1 | 3.61 | 4.79 |
| 1/1 | 1/1 | 7.45 | 5.6 |
| 1/1 | 1/1 | 7.9 | 6.35 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.8 | 4.66 |
| 1/1 | 1/1 | 5.82 | 4.34 |
| 1/1 | 1/1 | 5.55 | 4.3 |
| 1/1 | 0/1 | 4.16 | 2.95 |
| 1/1 | 1/1 | 10.28 | 9.11 |
| 1/1 | 1/1 | 3.48 | 4.54 |
| 0/1 | 1/1 | 2.4 | 3.48 |
| 0/1 | 1/1 | 3.45 | 4.61 |
| 1/1 | 1/1 | 5.24 | 6.44 |
| 0/1 | 1/1 | 3.38 | 5.2 |
| 1/1 | 1/1 | 9.63 | 9.09 |
| 1/1 | 1/1 | 5.78 | 5.41 |
| 0/1 | 1/1 | 3.16 | 2.84 |
| 1/1 | 1/1 | 3.05 | 2.93 |
| 1/1 | 1/1 | 8.14 | 8.06 |
| 1/1 | 1/1 | 13.68 | 13.66 |
| 1/1 | 1/1 | 8.53 | 6.79 |
| 0/1 | 1/1 | 4.23 | 5.5 |
| 1/1 | 1/1 | 6.72 | 4.41 |
| 1/1 | 1/1 | 6.26 | 3.95 |
| 1/1 | 0/1 | 5.47 | 3.42 |
| 1/1 | 0/1 | 4.57 | 2.75 |
| 1/1 | 1/1 | 5.88 | 6.15 |
| 0/1 | 1/1 | 2.12 | 2.44 |
| 0/1 | 1/1 | 2.65 | 3.02 |
| 0/1 | 1/1 | 2.24 | 2.69 |
| 1/1 | 1/1 | 3.83 | 4.34 |
| 1/1 | 1/1 | 3.62 | 4.41 |
| 1/1 | 1/1 | 5.25 | 3.48 |
| 1/1 | 1/1 | 6.24 | 4.82 |
| 1/1 | 1/1 | 5.03 | 3.77 |
| 1/1 | 0/1 | 3.81 | 2.57 |
| 1/1 | 1/1 | 3.32 | 4.19 |
| 1/1 | 1/1 | 6.16 | 4.6 |
| 1/1 | 1/1 | 5.95 | 7.02 |
| 1/1 | 0/1 | 6.34 | 5.21 |
| 1/1 | 1/1 | 8.34 | 7.54 |
| 1/1 | 1/1 | 9.11 | 8.53 |
| 1/1 | 0/1 | 4.92 | 3.13 |
| 1/1 | 1/1 | 6.05 | 4.39 |
| 0/1 | 1/1 | 3.98 | 4.78 |
| 1/1 | 1/1 | 5.75 | 5.19 |
| 1/1 | 1/1 | 4.12 | 3.72 |
| 1/1 | 1/1 | 9.36 | 9.17 |
| 1/1 | 1/1 | 8.96 | 8.78 |
| 1/1 | 1/1 | 8.36 | 8.28 |
| 1/1 | 1/1 | 8.21 | 10.42 |
| 1/1 | 1/1 | 4.61 | 3.54 |
| 1/1 | 1/1 | 5.37 | 4.47 |
| 1/1 | 1/1 | 4.56 | 3.92 |
| 1/1 | 1/1 | 6.33 | 4.96 |
| 1/1 | 1/1 | 4 | 2.93 |
| 1/1 | 1/1 | 5.3 | 4.26 |
| 1/1 | 1/1 | 8.61 | 7.7 |
| 1/1 | 1/1 | 8.59 | 7.76 |
| 1/1 | 0/1 | 6.56 | 4.96 |
| 1/1 | 1/1 | 8.06 | 6.68 |
| 1/1 | 1/1 | 4.66 | 3.46 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 3.3 | 2.33 |
| 1/1 | 0/1 | 4.35 | 3.67 |
| 1/1 | 1/1 | 5.11 | 6.85 |
| 1/1 | 1/1 | 9.21 | 7.69 |
| 1/1 | 0/1 | 6.87 | 5.64 |
| 1/1 | 1/1 | 8.01 | 6.81 |
| 1/1 | 1/1 | 6.99 | 5.87 |
| 0/1 | 1/1 | 4.09 | 5.38 |
| 1/1 | 0/1 | 2.85 | 2.15 |
| 1/1 | 1/1 | 3.22 | 2.85 |
| 1/1 | 1/1 | 3.52 | 3.27 |
| 1/1 | 1/1 | 4.36 | 6.22 |
| 1/1 | 1/1 | 5.69 | 7.56 |
| 1/1 | 1/1 | 3.62 | 5.48 |
| 1/1 | 1/1 | 3.92 | 5.83 |
| 1/1 | 1/1 | 4.71 | 6.71 |
| 1/1 | 1/1 | 3.53 | 5.54 |
| 1/1 | 1/1 | 4.42 | 6.57 |
| 1/1 | 1/1 | 4.34 | 6.88 |
| 1/1 | 0/1 | 6.54 | 4.11 |
| 1/1 | 1/1 | 5.99 | 3.9 |
| 1/1 | 0/1 | 4.19 | 2.16 |
| 1/1 | 1/1 | 5.66 | 3.64 |
| 1/1 | 1/1 | 6.56 | 4.61 |
| 1/1 | 1/1 | 7 | 7.11 |
| 1/1 | 1/1 | 6.53 | 6.75 |
| 1/1 | 1/1 | 5.19 | 5.53 |
| 1/1 | 1/1 | 4.11 | 3.24 |
| 1/1 | 1/1 | 4.3 | 3.44 |
| 1/1 | 1/1 | 6.49 | 5.78 |
| 1/1 | 1/1 | 3.65 | 2.98 |
| 1/1 | 0/1 | 3.83 | 3.2 |
| 0/1 | 1/1 | 3.9 | 3.29 |
| 1/1 | 1/1 | 5.36 | 4.81 |
| 1/1 | 0/1 | 4.83 | 4.32 |
| 0/1 | 1/1 | 4.55 | 4.14 |
| 0/1 | 1/1 | 3.71 | 5.55 |
| 0/1 | 1/1 | 3.18 | 5.03 |
| 0/1 | 1/1 | 3.18 | 5.11 |
| 0/1 | 1/1 | 3.97 | 6.07 |
| 0/1 | 1/1 | 2.91 | 5.58 |
| 1/1 | 0/1 | 2.99 | 1.78 |
| 1/1 | 1/1 | 5.11 | 4.34 |
| 1/1 | 0/1 | 3.5 | 1.96 |
| 1/1 | 1/1 | 4.39 | 2.94 |
| 0/1 | 1/1 | 3.04 | 4.44 |
| 1/1 | 0/1 | 4.21 | 3.16 |
| 1/1 | 1/1 | 5.29 | 4.41 |
| 1/1 | 1/1 | 3.76 | 5.72 |
| 1/1 | 1/1 | 4.25 | 3.27 |
| 1/1 | 1/1 | 6.78 | 6.01 |
| 1/1 | 1/1 | 3.59 | 3.03 |
| 1/1 | 1/1 | 6.25 | 5.66 |
| 1/1 | 1/1 | 8.93 | 8.87 |
| 0/1 | 1/1 | 2.46 | 4.72 |
| 1/1 | 1/1 | 6.88 | 6.14 |
| 1/1 | 1/1 | 7.95 | 7.74 |
| 1/1 | 1/1 | 4.02 | 3.04 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.25 | 3.79 |
| 1/1 | 1/1 | 5.74 | 5.29 |
| 1/1 | 1/1 | 4.98 | 6.54 |
| 1/1 | 1/1 | 3.85 | 5.48 |
| 1/1 | 1/1 | 7.7 | 6.94 |
| 1/1 | 1/1 | 6.27 | 5.92 |
| 1/1 | 1/1 | 5.78 | 5.47 |
| 0/1 | 1/1 | 5.38 | 5.14 |
| 1/1 | 1/1 | 5.68 | 7.93 |
| 0/1 | 1/1 | 3.38 | 5.84 |
| 1/1 | 1/1 | 7.03 | 6.4 |
| 1/1 | 0/1 | 2.92 | 2.3 |
| 1/1 | 1/1 | 4.84 | 4.39 |
| 1/1 | 1/1 | 5.93 | 5.53 |
| 1/1 | 1/1 | 8.4 | 8.02 |
| 1/1 | 1/1 | 4.79 | 4.47 |
| 1/1 | 1/1 | 4.49 | 4.21 |
| 1/1 | 1/1 | 5.7 | 5.47 |
| 1/1 | 1/1 | 5.84 | 5.61 |
| 1/1 | 1/1 | 3.8 | 3.6 |
| 1/1 | 1/1 | 5.84 | 5.65 |
| 1/1 | 1/1 | 6.75 | 6.58 |
| 1/1 | 1/1 | 4.01 | 3.84 |
| 0/1 | 1/1 | 2.62 | 2.49 |
| 0/1 | 1/1 | 1.91 | 4.02 |
| 0/1 | 1/1 | 2.64 | 4.77 |
| 0/1 | 1/1 | 4.3 | 6.63 |
| 0/1 | 1/1 | 3.16 | 5.67 |
| 0/1 | 1/1 | 3.01 | 5.52 |
| 0/1 | 1/1 | 2.64 | 5.95 |
| 1/1 | 0/1 | 5.54 | 4.89 |
| 1/1 | 1/1 | 5.25 | 4.82 |
| 1/1 | 1/1 | 5.17 | 4.99 |
| 1/1 | 1/1 | 6.58 | 6.41 |
| 0/1 | 1/1 | 6.95 | 6.78 |
| 1/1 | 1/1 | 6.92 | 6.76 |
| 1/1 | 1/1 | 6.08 | 5.93 |
| 1/1 | 1/1 | 6.95 | 6.81 |
| 1/1 | 1/1 | 4.49 | 4.36 |
| 1/1 | 0/1 | 4.07 | 2.95 |
| 1/1 | 1/1 | 3.75 | 5.18 |
| 1/1 | 0/1 | 5.95 | 3.65 |
| 1/1 | 0/1 | 5.02 | 2.88 |
| 1/1 | 1/1 | 6.58 | 4.77 |
| 1/1 | 1/1 | 5.8 | 6.73 |
| 0/1 | 1/1 | 3.91 | 5.07 |
| 0/1 | 1/1 | 4.69 | 4.27 |
| 1/1 | 1/1 | 7.29 | 6.99 |
| 1/1 | 1/1 | 10.62 | 10.48 |
| 1/1 | 1/1 | 12.12 | 12.15 |
| 1/1 | 0/1 | 4.31 | 2.38 |
| 1/1 | 1/1 | 7.19 | 7.86 |
| 1/1 | 1/1 | 9.13 | 7.69 |
| 1/1 | 1/1 | 5.77 | 4.77 |
| 1/1 | 1/1 | 4.18 | 5.32 |
| 1/1 | 1/1 | 6.71 | 7.96 |
| 0/1 | 1/1 | 1.46 | 3.05 |
| 1/1 | 1/1 | 5.69 | 4.45 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.89 | 3.18 |
| 1/1 | 0/1 | 6.09 | 4.72 |
| 1/1 | 1/1 | 4.47 | 3.59 |
| 1/1 | 1/1 | 4.85 | 6.07 |
| 1/1 | 1/1 | 4 | 3.52 |
| 1/1 | 1/1 | 7.19 | 7.03 |
| 1/1 | 1/1 | 9.93 | 9.78 |
| 0/1 | 1/1 | 3.68 | 3.55 |
| 1/1 | 1/1 | 5.25 | 5.18 |
| 1/1 | 1/1 | 4.36 | 4.32 |
| 0/1 | 1/1 | 4.71 | 4.68 |
| 0/1 | 1/1 | 6.94 | 6.95 |
| 0/1 | 1/1 | 6.89 | 6.92 |
| 0/1 | 1/1 | 5.19 | 5.23 |
| 1/1 | 1/1 | 4.51 | 6.58 |
| 1/1 | 0/1 | 3.54 | 2.43 |
| 1/1 | 1/1 | 6.47 | 5.72 |
| 1/1 | 1/1 | 7.36 | 6.62 |
| 1/1 | 1/1 | 4.37 | 3.23 |
| 1/1 | 0/1 | 3.44 | 2.32 |
| 0/1 | 1/1 | 2.9 | 4.32 |
| 1/1 | 1/1 | 3.96 | 5.45 |
| 0/1 | 1/1 | 2.6 | 4.18 |
| 1/1 | 0/1 | 9.88 | 3.35 |
| 1/1 | 1/1 | 9.51 | 3.23 |
| 1/1 | 1/1 | 10.57 | 4.44 |
| 1/1 | 0/1 | 8.25 | 2.16 |
| 1/1 | 1/1 | 9.65 | 5.75 |
| 1/1 | 0/1 | 6.05 | 3.03 |
| 1/1 | 0/1 | 4.77 | 2.56 |
| 1/1 | 0/1 | 5.49 | 3.81 |
| 1/1 | 1/1 | 10.08 | 8.55 |
| 1/1 | 1/1 | 5.81 | 4.57 |
| 1/1 | 1/1 | 9.07 | 8 |
| 1/1 | 0/1 | 2.33 | 1.81 |
| 1/1 | 1/1 | 10.15 | 9.95 |
| 1/1 | 1/1 | 5.69 | 5.71 |
| 1/1 | 1/1 | 6.68 | 6.89 |
| 1/1 | 1/1 | 4.67 | 4.91 |
| 1/1 | 1/1 | 9.08 | 9.42 |
| 1/1 | 1/1 | 9 | 8.1 |
| 1/1 | 1/1 | 4.32 | 6.32 |
| 1/1 | 1/1 | 8.31 | 7.74 |
| 1/1 | 1/1 | 5.83 | 5.75 |
| 1/1 | 0/1 | 4.2 | 2.42 |
| 1/1 | 1/1 | 9.08 | 7.66 |
| 1/1 | 1/1 | 6.58 | 5.23 |
| 0/1 | 1/1 | 6.52 | 7.56 |
| 0/1 | 1/1 | 3.6 | 5.59 |
| 1/1 | 0/1 | 5.94 | 4.4 |
| 1/1 | 1/1 | 5.91 | 7.25 |
| 1/1 | 1/1 | 6.81 | 8.21 |
| 1/1 | 1/1 | 4.44 | 5.86 |
| 1/1 | 1/1 | 3.82 | 5.63 |
| 1/1 | 1/1 | 2.88 | 4.88 |
| 1/1 | 0/1 | 3.31 | 2.12 |
| 1/1 | 1/1 | 4.39 | 3.58 |
| 1/1 | 1/1 | 5.06 | 4.27 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 2.95 | 4.37 |
| 1/1 | 1/1 | 8.39 | 7.84 |
| 1/1 | 1/1 | 5.21 | 4.89 |
| 1/1 | 1/1 | 7.39 | 7.21 |
| 1/1 | 1/1 | 7.55 | 7.46 |
| 1/1 | 1/1 | 6.01 | 8.25 |
| 0/1 | 1/1 | 2.51 | 4.76 |
| 1/1 | 1/1 | 5.5 | 4.95 |
| 1/1 | 1/1 | 9.07 | 8.66 |
| 1/1 | 1/1 | 8.58 | 8.37 |
| 1/1 | 1/1 | 6.01 | 5.96 |
| 1/1 | 1/1 | 3.68 | 3.13 |
| 1/1 | 1/1 | 6.55 | 6.08 |
| 1/1 | 1/1 | 5.48 | 5.35 |
| 0/1 | 1/1 | 7.4 | 7.27 |
| 1/1 | 1/1 | 4.42 | 4.33 |
| 1/1 | 1/1 | 6.79 | 6.71 |
| 1/1 | 1/1 | 4.17 | 4.14 |
| 1/1 | 1/1 | 6.4 | 3.76 |
| 1/1 | 1/1 | 5.75 | 3.51 |
| 1/1 | 0/1 | 5.95 | 3.74 |
| 1/1 | 1/1 | 9.46 | 9.6 |
| 1/1 | 1/1 | 7.22 | 5.92 |
| 1/1 | 1/1 | 3.82 | 5.17 |
| 1/1 | 0/1 | 5.95 | 3.12 |
| 1/1 | 0/1 | 5.26 | 2.46 |
| 1/1 | 1/1 | 4.89 | 2.56 |
| 1/1 | 1/1 | 3.13 | 3.06 |
| 0/1 | 1/1 | 2.9 | 2.84 |
| 0/1 | 1/1 | 2.64 | 2.62 |
| 1/1 | 1/1 | 5.13 | 5.19 |
| 0/1 | 1/1 | 2.75 | 2.84 |
| 0/1 | 1/1 | 2.53 | 3.69 |
| 1/1 | 1/1 | 4.53 | 3.7 |
| 1/1 | 1/1 | 4.73 | 3.94 |
| 1/1 | 1/1 | 8.29 | 7.78 |
| 1/1 | 1/1 | 7.12 | 6.65 |
| 1/1 | 1/1 | 6.53 | 6.12 |
| 1/1 | 1/1 | 8.21 | 7.82 |
| 0/1 | 1/1 | 3.37 | 2.99 |
| 1/1 | 1/1 | 5.81 | 5.42 |
| 1/1 | 1/1 | 5.56 | 5.17 |
| 1/1 | 1/1 | 9.7 | 9.35 |
| 1/1 | 1/1 | 5.97 | 5.63 |
| 1/1 | 1/1 | 6.03 | 7.73 |
| 1/1 | 1/1 | 5.46 | 7.21 |
| 1/1 | 1/1 | 3.68 | 5.56 |
| 1/1 | 1/1 | 6.15 | 8.06 |
| 1/1 | 1/1 | 3.76 | 6.18 |
| 1/1 | 1/1 | 3.17 | 5.79 |
| 0/1 | 1/1 | 3.56 | 6.19 |
| 0/1 | 1/1 | 3.16 | 6.21 |
| 0/1 | 1/1 | 2.26 | 5.66 |
| 1/1 | 1/1 | 6.65 | 5.69 |
| 0/1 | 1/1 | 4.99 | 6.67 |
| 1/1 | 1/1 | 6.26 | 3.59 |
| 1/1 | 1/1 | 7.86 | 5.55 |
| 1/1 | 1/1 | 7.92 | 8.14 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.42 | 7.57 |
| 1/1 | 1/1 | 7.24 | 6.82 |
| 1/1 | 1/1 | 6.33 | 5.92 |
| 1/1 | 1/1 | 7.29 | 6.9 |
| 1/1 | 1/1 | 10.25 | 9.87 |
| 1/1 | 1/1 | 5.34 | 3.87 |
| 1/1 | 1/1 | 3.01 | 4.81 |
| 1/1 | 0/1 | 3.42 | 2.28 |
| 1/1 | 1/1 | 9.23 | 8.39 |
| 1/1 | 1/1 | 8.24 | 7.45 |
| 1/1 | 1/1 | 5.71 | 5.09 |
| 0/1 | 1/1 | 2.65 | 4.23 |
| 0/1 | 1/1 | 2.52 | 4.14 |
| 1/1 | 1/1 | 8.79 | 4.57 |
| 1/1 | 1/1 | 6.83 | 3.03 |
| 1/1 | 1/1 | 7.28 | 3.54 |
| 1/1 | 1/1 | 4.11 | 2.42 |
| 1/1 | 0/1 | 4.33 | 2.77 |
| 1/1 | 1/1 | 8.4 | 6.97 |
| 1/1 | 0/1 | 3.66 | 2.29 |
| 1/1 | 0/1 | 3.66 | 2.29 |
| 1/1 | 0/1 | 3.5 | 2.49 |
| 1/1 | 1/1 | 3.3 | 2.39 |
| 1/1 | 1/1 | 8.24 | 7.33 |
| 1/1 | 1/1 | 9.34 | 8.63 |
| 1/1 | 0/1 | 3.15 | 2.58 |
| 1/1 | 1/1 | 6.68 | 6.19 |
| 1/1 | 0/1 | 2.86 | 2.39 |
| 1/1 | 1/1 | 2.36 | 2.39 |
| 1/1 | 1/1 | 6.99 | 7.34 |
| 1/1 | 1/1 | 5.54 | 4.46 |
| 1/1 | 1/1 | 5.46 | 4.8 |
| 1/1 | 1/1 | 6.49 | 5.9 |
| 1/1 | 1/1 | 4 | 6.51 |
| 1/1 | 1/1 | 4.52 | 3.48 |
| 1/1 | 1/1 | 6.74 | 8.32 |
| 1/1 | 1/1 | 4.85 | 6.59 |
| 0/1 | 1/1 | 3.14 | 6.53 |
| 1/1 | 1/1 | 10.75 | 5.48 |
| 1/1 | 1/1 | 10.81 | 6 |
| 1/1 | 1/1 | 11.16 | 6.39 |
| 1/1 | 1/1 | 10.81 | 8.47 |
| 1/1 | 1/1 | 7.22 | 5 |
| 1/1 | 1/1 | 6.82 | 5.79 |
| 1/1 | 1/1 | 6.57 | 6.12 |
| 1/1 | 1/1 | 3.61 | 2.88 |
| 0/1 | 1/1 | 5.1 | 4.55 |
| 1/1 | 1/1 | 10.89 | 10.41 |
| 1/1 | 1/1 | 6.55 | 6.14 |
| 1/1 | 1/1 | 9.36 | 9.11 |
| 1/1 | 1/1 | 3.5 | 5.62 |
| 1/1 | 0/1 | 4.11 | 3.44 |
| 1/1 | 1/1 | 10.53 | 10.28 |
| 1/1 | 1/1 | 6.48 | 8.36 |
| 1/1 | 1/1 | 6.85 | 8.74 |
| 0/1 | 1/1 | 3.72 | 5.74 |
| 1/1 | 1/1 | 4.69 | 7.26 |
| 0/1 | 1/1 | 2.24 | 5.52 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.84 | 4.52 |
| 0/1 | 1/1 | 5.08 | 4.87 |
| 1/1 | 1/1 | 7.43 | 7.23 |
| 1/1 | 1/1 | 7.38 | 7.38 |
| 1/1 | 1/1 | 5.85 | 5.9 |
| 1/1 | 1/1 | 11.44 | 11.51 |
| 1/1 | 1/1 | 5.99 | 8.22 |
| 1/1 | 1/1 | 5.73 | 8.16 |
| 1/1 | 1/1 | 6.16 | 8.69 |
| 1/1 | 1/1 | 4.44 | 7.15 |
| 1/1 | 0/1 | 4.74 | 2.09 |
| 1/1 | 1/1 | 5.73 | 3.41 |
| 1/1 | 1/1 | 8.08 | 7.99 |
| 1/1 | 1/1 | 5.99 | 5.94 |
| 0/1 | 1/1 | 3.6 | 3.57 |
| 0/1 | 1/1 | 3.45 | 3.44 |
| 1/1 | 1/1 | 11.05 | 11.07 |
| 1/1 | 1/1 | 8.45 | 8.47 |
| 1/1 | 1/1 | 6.15 | 6.2 |
| 1/1 | 1/1 | 12.25 | 12.32 |
| 0/1 | 1/1 | 2.4 | 2.47 |
| 1/1 | 1/1 | 5.31 | 5.43 |
| 1/1 | 1/1 | 3.96 | 4.12 |
| 1/1 | 1/1 | 6.16 | 6.34 |
| 1/1 | 1/1 | 2.94 | 3.18 |
| 1/1 | 1/1 | 6.09 | 6.55 |
| 1/1 | 1/1 | 5.09 | 5.85 |
| 0/1 | 1/1 | 3.94 | 4.82 |
| 1/1 | 1/1 | 8.4 | 7.52 |
| 1/1 | 1/1 | 3.59 | 2.75 |
| 1/1 | 1/1 | 4.59 | 3.79 |
| 1/1 | 1/1 | 5.04 | 4.33 |
| 1/1 | 1/1 | 5.49 | 4.8 |
| 1/1 | 1/1 | 5.3 | 4.76 |
| 1/1 | 1/1 | 10.05 | 9.55 |
| 1/1 | 1/1 | 3.49 | 5.2 |
| 0/1 | 1/1 | 2.53 | 4.45 |
| 0/1 | 1/1 | 2.46 | 4.61 |
| 1/1 | 1/1 | 3.8 | 3.09 |
| 1/1 | 0/1 | 3.02 | 2.35 |
| 1/1 | 1/1 | 3.74 | 5.73 |
| 1/1 | 1/1 | 6.2 | 6.14 |
| 1/1 | 1/1 | 3.27 | 3.24 |
| 1/1 | 1/1 | 8.45 | 8.51 |
| 1/1 | 1/1 | 5.78 | 5.85 |
| 1/1 | 1/1 | 3.41 | 6.35 |
| 1/1 | 1/1 | 8.07 | 6.86 |
| 1/1 | 1/1 | 6.87 | 6.01 |
| 0/1 | 1/1 | 2.54 | 4.24 |
| 1/1 | 0/1 | 8.86 | 4.82 |
| 1/1 | 1/1 | 9.9 | 5.88 |
| 1/1 | 0/1 | 10.35 | 6.45 |
| 1/1 | 1/1 | 10.78 | 6.92 |
| 1/1 | 0/1 | 8.62 | 4.82 |
| 1/1 | 1/1 | 9.27 | 5.56 |
| 1/1 | 1/1 | 10.45 | 6.77 |
| 1/1 | 0/1 | 7.48 | 3.83 |
| 1/1 | 1/1 | 9.03 | 5.41 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.87 | 7.25 |
| 1/1 | 1/1 | 10.5 | 6.93 |
| 1/1 | 1/1 | 8.1 | 4.55 |
| 1/1 | 0/1 | 7.31 | 3.79 |
| 1/1 | 0/1 | 4.66 | 3.14 |
| 1/1 | 0/1 | 8.23 | 6.78 |
| 1/1 | 1/1 | 9.27 | 7.83 |
| 1/1 | 0/1 | 9.26 | 7.84 |
| 1/1 | 1/1 | 10.79 | 9.47 |
| 1/1 | 1/1 | 8.63 | 7.31 |
| 1/1 | 1/1 | 9.27 | 8.02 |
| 1/1 | 0/1 | 5.06 | 3.83 |
| 1/1 | 1/1 | 5.87 | 4.7 |
| 1/1 | 1/1 | 11.39 | 10.22 |
| 1/1 | 1/1 | 7.62 | 6.59 |
| 1/1 | 1/1 | 11.05 | 10.03 |
| 1/1 | 1/1 | 8.79 | 7.76 |
| 1/1 | 1/1 | 5.81 | 4.79 |
| 1/1 | 1/1 | 6.72 | 5.72 |
| 1/1 | 1/1 | 6.74 | 5.75 |
| 1/1 | 1/1 | 9.38 | 8.38 |
| 1/1 | 1/1 | 10.98 | 10 |
| 1/1 | 1/1 | 6.23 | 5.26 |
| 1/1 | 0/1 | 7.35 | 6.43 |
| 1/1 | 1/1 | 8.86 | 8 |
| 1/1 | 1/1 | 4.68 | 3.84 |
| 1/1 | 1/1 | 7.71 | 6.94 |
| 1/1 | 0/1 | 7.37 | 6.62 |
| 1/1 | 1/1 | 10.35 | 9.65 |
| 1/1 | 1/1 | 8.62 | 8.01 |
| 1/1 | 1/1 | 10.63 | 10.08 |
| 1/1 | 1/1 | 5.63 | 5.09 |
| 1/1 | 1/1 | 4.04 | 3.52 |
| 1/1 | 0/1 | 6.58 | 6.11 |
| 1/1 | 1/1 | 4.98 | 4.54 |
| 1/1 | 1/1 | 10.44 | 10.06 |
| 1/1 | 1/1 | 9.74 | 9.37 |
| 1/1 | 1/1 | 10.05 | 9.76 |
| 1/1 | 1/1 | 9.09 | 8.81 |
| 1/1 | 1/1 | 6.17 | 5.94 |
| 1/1 | 1/1 | 10.21 | 10.04 |
| 1/1 | 1/1 | 7 | 6.85 |
| 1/1 | 1/1 | 8.73 | 8.59 |
| 0/1 | 1/1 | 6.24 | 6.22 |
| 1/1 | 1/1 | 3.97 | 3.96 |
| 1/1 | 1/1 | 12.4 | 12.41 |
| 0/1 | 1/1 | 6.52 | 6.6 |
| 1/1 | 1/1 | 7.82 | 7.93 |
| 1/1 | 1/1 | 9.95 | 10.1 |
| 1/1 | 1/1 | 6.21 | 6.36 |
| 1/1 | 1/1 | 7.03 | 7.52 |
| 1/1 | 0/1 | 2.57 | 1.94 |
| 1/1 | 1/1 | 2.91 | 2.75 |
| 1/1 | 1/1 | 2.99 | 2.86 |
| 1/1 | 1/1 | 4.33 | 6.22 |
| 1/1 | 1/1 | 4.49 | 6.42 |
| 0/1 | 1/1 | 2.97 | 5.06 |
| 0/1 | 1/1 | 3.17 | 6.14 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.81 | 3.91 |
| 1/1 | 0/1 | 4.19 | 3.65 |
| 1/1 | 1/1 | 3.91 | 3.46 |
| 1/1 | 1/1 | 5.89 | 5.45 |
| 1/1 | 1/1 | 7.3 | 6.52 |
| 1/1 | 1/1 | 5.95 | 5.23 |
| 1/1 | 1/1 | 5.21 | 4.69 |
| 1/1 | 0/1 | 3.65 | 3.19 |
| 1/1 | 1/1 | 8.98 | 8.68 |
| 1/1 | 1/1 | 6.32 | 6.04 |
| 1/1 | 1/1 | 4.17 | 3.92 |
| 1/1 | 1/1 | 5.78 | 4.91 |
| 1/1 | 1/1 | 10.97 | 10.23 |
| 1/1 | 1/1 | 6.66 | 8.31 |
| 1/1 | 1/1 | 4.56 | 6.71 |
| 1/1 | 1/1 | 7.06 | 5.76 |
| 1/1 | 1/1 | 5.35 | 6.65 |
| 1/1 | 1/1 | 7.23 | 6.17 |
| 1/1 | 1/1 | 4.96 | 4.31 |
| 1/1 | 0/1 | 5.45 | 3.66 |
| 0/1 | 1/1 | 3.04 | 4.03 |
| 0/1 | 1/1 | 3.54 | 4.73 |
| 1/1 | 1/1 | 6.23 | 5.57 |
| 1/1 | 1/1 | 8.98 | 8.4 |
| 0/1 | 1/1 | 6.82 | 6.58 |
| 1/1 | 1/1 | 6.67 | 5.62 |
| 1/1 | 1/1 | 6.62 | 5.95 |
| 1/1 | 1/1 | 7.68 | 7.03 |
| 1/1 | 1/1 | 5.69 | 7.47 |
| 1/1 | 1/1 | 6.21 | 8.02 |
| 1/1 | 1/1 | 5.87 | 7.79 |
| 0/1 | 1/1 | 3.53 | 5.69 |
| 1/1 | 1/1 | 6.33 | 8.58 |
| 0/1 | 1/1 | 3.66 | 6.34 |
| 0/1 | 1/1 | 2.29 | 6.94 |
| 1/1 | 1/1 | 7.49 | 6.91 |
| 1/1 | 1/1 | 6.82 | 6.38 |
| 1/1 | 1/1 | 6.57 | 6.14 |
| 1/1 | 1/1 | 3.74 | 3.35 |
| 1/1 | 1/1 | 6.66 | 6.28 |
| 0/1 | 1/1 | 5.37 | 5.01 |
| 1/1 | 1/1 | 7.68 | 7.37 |
| 1/1 | 1/1 | 8.69 | 8.4 |
| 1/1 | 1/1 | 9.25 | 8.99 |
| 1/1 | 1/1 | 8.03 | 7.84 |
| 1/1 | 1/1 | 5.75 | 5.57 |
| 0/1 | 1/1 | 6.85 | 6.71 |
| 1/1 | 1/1 | 7.52 | 7.44 |
| 1/1 | 1/1 | 7.43 | 7.35 |
| 0/1 | 1/1 | 5.13 | 7.58 |
| 1/1 | 1/1 | 6.54 | 5.77 |
| 1/1 | 1/1 | 4.65 | 3.99 |
| 1/1 | 1/1 | 4.37 | 4 |
| 1/1 | 1/1 | 5.5 | 5.19 |
| 1/1 | 1/1 | 7.86 | 7.6 |
| 1/1 | 1/1 | 6.63 | 5.01 |
| 1/1 | 1/1 | 9.88 | 8.64 |
| 1/1 | 1/1 | 10.4 | 9.19 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.01 | 2.88 |
| 1/1 | 1/1 | 7.43 | 3.31 |
| 1/1 | 1/1 | 6.91 | 3.07 |
| 1/1 | 1/1 | 7.35 | 3.56 |
| 1/1 | 0/1 | 4.38 | 2.81 |
| 1/1 | 0/1 | 8.98 | 7.71 |
| 1/1 | 1/1 | 5.24 | 4.08 |
| 1/1 | 1/1 | 4.65 | 3.9 |
| 1/1 | 1/1 | 4.13 | 3.42 |
| 1/1 | 1/1 | 3.76 | 3.2 |
| 0/1 | 1/1 | 3.27 | 2.94 |
| 1/1 | 1/1 | 9.3 | 9.24 |
| 0/1 | 1/1 | 3.69 | 3.96 |
| 1/1 | 0/1 | 5.79 | 2.23 |
| 1/1 | 0/1 | 6.39 | 2.95 |
| 1/1 | 1/1 | 7.72 | 4.57 |
| 1/1 | 0/1 | 6.82 | 3.71 |
| 1/1 | 1/1 | 7.01 | 6.04 |
| 1/1 | 1/1 | 8.3 | 7.39 |
| 1/1 | 1/1 | 9.01 | 8.11 |
| 1/1 | 1/1 | 5.81 | 5.07 |
| 1/1 | 1/1 | 8.77 | 8.05 |
| 1/1 | 1/1 | 8.17 | 7.46 |
| 1/1 | 1/1 | 5.1 | 4.41 |
| 1/1 | 1/1 | 5.42 | 4.79 |
| 1/1 | 1/1 | 7.36 | 6.8 |
| 1/1 | 1/1 | 7.55 | 7 |
| 1/1 | 1/1 | 7.57 | 7.06 |
| 1/1 | 1/1 | 7.77 | 7.35 |
| 1/1 | 1/1 | 6.6 | 6.19 |
| 1/1 | 1/1 | 5.29 | 4.91 |
| 1/1 | 1/1 | 4.18 | 3.83 |
| 1/1 | 1/1 | 5.08 | 4.74 |
| 1/1 | 1/1 | 4.66 | 4.36 |
| 1/1 | 1/1 | 8.08 | 7.79 |
| 1/1 | 1/1 | 4.69 | 4.45 |
| 0/1 | 1/1 | 6.67 | 6.44 |
| 1/1 | 1/1 | 7.03 | 6.8 |
| 1/1 | 1/1 | 8.36 | 8.18 |
| 1/1 | 1/1 | 5.78 | 5.7 |
| 1/1 | 1/1 | 6.13 | 6.07 |
| 1/1 | 1/1 | 4.63 | 4.6 |
| 1/1 | 1/1 | 6.52 | 6.5 |
| 1/1 | 1/1 | 7.91 | 7.89 |
| 1/1 | 1/1 | 8.75 | 8.77 |
| 1/1 | 1/1 | 6.02 | 6.1 |
| 1/1 | 1/1 | 4.41 | 4.5 |
| 1/1 | 1/1 | 7.13 | 7.25 |
| 1/1 | 1/1 | 10.16 | 10.34 |
| 1/1 | 1/1 | 10.87 | 11.06 |
| 1/1 | 1/1 | 6.91 | 7.13 |
| 1/1 | 1/1 | 10.71 | 10.95 |
| 0/1 | 1/1 | 4.16 | 4.41 |
| 0/1 | 1/1 | 4.4 | 4.75 |
| 1/1 | 1/1 | 5.34 | 5.7 |
| 1/1 | 1/1 | 5.42 | 5.8 |
| 0/1 | 1/1 | 5.53 | 6.14 |
| 0/1 | 1/1 | 2.53 | 3.24 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.08 | 2.89 |
| 1/1 | 1/1 | 4.33 | 5.52 |
| 1/1 | 1/1 | 4.64 | 6.17 |
| 0/1 | 1/1 | 3.02 | 4.57 |
| 1/1 | 1/1 | 6.13 | 4.78 |
| 1/1 | 1/1 | 3.75 | 5.01 |
| 1/1 | 1/1 | 6.86 | 6.07 |
| 1/1 | 1/1 | 5.92 | 7.65 |
| 0/1 | 1/1 | 4.83 | 7.01 |
| 0/1 | 1/1 | 3.29 | 5.56 |
| 0/1 | 1/1 | 4.28 | 6.6 |
| 1/1 | 1/1 | 5.26 | 7.73 |
| 0/1 | 1/1 | 2.59 | 5.73 |
| 1/1 | 1/1 | 5.41 | 8.65 |
| 0/1 | 1/1 | 1.91 | 7.23 |
| 1/1 | 1/1 | 9.37 | 8.41 |
| 1/1 | 1/1 | 7.93 | 7.33 |
| 1/1 | 1/1 | 2.84 | 2.3 |
| 1/1 | 1/1 | 6.89 | 6.11 |
| 1/1 | 1/1 | 5.82 | 5.52 |
| 1/1 | 0/1 | 6.21 | 4.53 |
| 1/1 | 1/1 | 5.84 | 6.71 |
| 1/1 | 1/1 | 5.73 | 6.7 |
| 1/1 | 1/1 | 4.93 | 3.23 |
| 0/1 | 1/1 | 2.28 | 3.32 |
| 1/1 | 1/1 | 8.66 | 6.93 |
| 1/1 | 1/1 | 11.84 | 10.34 |
| 1/1 | 0/1 | 7.42 | 5.95 |
| 1/1 | 0/1 | 7.42 | 5.95 |
| 1/1 | 0/1 | 7.42 | 5.95 |
| 1/1 | 1/1 | 4.74 | 3.4 |
| 0/1 | 1/1 | 3.14 | 4.13 |
| 0/1 | 1/1 | 4.97 | 6.13 |
| 1/1 | 1/1 | 7.08 | 6.88 |
| 0/1 | 1/1 | 4.21 | 4.04 |
| 0/1 | 1/1 | 3.42 | 6.63 |
| 1/1 | 1/1 | 2.32 | 2.13 |
| 0/1 | 1/1 | 2.96 | 2.95 |
| 0/1 | 1/1 | 2.29 | 2.34 |
| 1/1 | 1/1 | 4.59 | 6.95 |
| 1/1 | 1/1 | 5.17 | 2.83 |
| 1/1 | 1/1 | 9.23 | 9.48 |
| 1/1 | 1/1 | 6.21 | 6.48 |
| 1/1 | 1/1 | 6.31 | 5.81 |
| 1/1 | 1/1 | 4.58 | 4.11 |
| 1/1 | 1/1 | 7.05 | 6.87 |
| 1/1 | 1/1 | 4.63 | 4.65 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 7.07 | 5.24 |
| 1/1 | 1/1 | 7.36 | 8.13 |
| 1/1 | 1/1 | 4.68 | 6.09 |
| 1/1 | 1/1 | 7.75 | 5.38 |
| 0/1 | 1/1 | 2.29 | 2.72 |
| 0/1 | 1/1 | 2.81 | 3.32 |
| 1/1 | 1/1 | 5.97 | 5 |
| 1/1 | 1/1 | 5.24 | 4.35 |
| 1/1 | 1/1 | 5.06 | 4.42 |
| 1/1 | 1/1 | 8.48 | 7.97 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.93 | 5.44 |
| 0/1 | 1/1 | 4.79 | 4.52 |
| 1/1 | 1/1 | 2.59 | 2.56 |
| 1/1 | 1/1 | 6.55 | 6.54 |
| 1/1 | 1/1 | 6.7 | 6.7 |
| 1/1 | 1/1 | 8.57 | 8.57 |
| 1/1 | 1/1 | 9.16 | 9.2 |
| 1/1 | 1/1 | 11.23 | 11.3 |
| 1/1 | 1/1 | 3.24 | 3.35 |
| 1/1 | 1/1 | 9.12 | 9.25 |
| 0/1 | 1/1 | 2.37 | 2.52 |
| 0/1 | 1/1 | 3.54 | 3.71 |
| 1/1 | 1/1 | 5.2 | 7.92 |
| 1/1 | 0/1 | 5.48 | 2.88 |
| 1/1 | 1/1 | 5.36 | 5.29 |
| 0/1 | 1/1 | 4.48 | 4.45 |
| 1/1 | 1/1 | 5.51 | 5.56 |
| 0/1 | 1/1 | 2.87 | 3.02 |
| 0/1 | 1/1 | 2.51 | 2.89 |
| 1/1 | 0/1 | 4.08 | 3.08 |
| 1/1 | 1/1 | 2.83 | 4.74 |
| 0/1 | 1/1 | 3.15 | 7.08 |
| 1/1 | 0/1 | 4.49 | 3.13 |
| 0/1 | 1/1 | 3.2 | 5 |
| 1/1 | 1/1 | 9.36 | 7.87 |
| 1/1 | 1/1 | 9.91 | 8.78 |
| 1/1 | 0/1 | 7.77 | 6.69 |
| 0/1 | 1/1 | 3.76 | 5.21 |
| 1/1 | 1/1 | 10.48 | 8.54 |
| 1/1 | 0/1 | 8.89 | 7.34 |
| 1/1 | 1/1 | 9.99 | 8.54 |
| 1/1 | 1/1 | 11.32 | 10.95 |
| 1/1 | 1/1 | 8.11 | 7.84 |
| 1/1 | 1/1 | 8.18 | 8.03 |
| 1/1 | 1/1 | 9.39 | 9.28 |
| 1/1 | 1/1 | 7.1 | 7.14 |
| 1/1 | 1/1 | 8.98 | 9.12 |
| 1/1 | 1/1 | 6.93 | 6.18 |
| 0/1 | 1/1 | 4.73 | 4.19 |
| 1/1 | 1/1 | 6.46 | 6.19 |
| 1/1 | 1/1 | 5.94 | 5.67 |
| 1/1 | 1/1 | 8.53 | 8.37 |
| 1/1 | 1/1 | 10.8 | 10.91 |
| 1/1 | 1/1 | 9.67 | 9.93 |
| 1/1 | 1/1 | 5.2 | 5.5 |
| 1/1 | 1/1 | 4.11 | 6.62 |
| 1/1 | 1/1 | 5.03 | 7.62 |
| 1/1 | 1/1 | 3.61 | 6.64 |
| 1/1 | 1/1 | 9.66 | 8.27 |
| 1/1 | 1/1 | 6.48 | 5.22 |
| 1/1 | 1/1 | 5.52 | 6.76 |
| 1/1 | 0/1 | 4.28 | 2.54 |
| 1/1 | 1/1 | 3.62 | 4.41 |
| 1/1 | 1/1 | 3.79 | 4.66 |
| 1/1 | 1/1 | 4.21 | 5.15 |
| 1/1 | 1/1 | 3.03 | 4.97 |
| 0/1 | 1/1 | 4.58 | 4.24 |
| 1/1 | 1/1 | 2.78 | 2.73 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.04 | 7.15 |
| 1/1 | 1/1 | 5.53 | 5.65 |
| 1/1 | 0/1 | 3.58 | 2.34 |
| 1/1 | 0/1 | 2.95 | 2.19 |
| 1/1 | 1/1 | 6.01 | 7.36 |
| 1/1 | 1/1 | 3.02 | 4.54 |
| 1/1 | 0/1 | 4.34 | 2.95 |
| 0/1 | 1/1 | 3.04 | 4.31 |
| 0/1 | 1/1 | 3.78 | 5.39 |
| 1/1 | 1/1 | 6.82 | 5.97 |
| 1/1 | 1/1 | 3.51 | 2.96 |
| 1/1 | 0/1 | 4.62 | 4.13 |
| 1/1 | 1/1 | 4.48 | 4.05 |
| 0/1 | 1/1 | 8.68 | 8.25 |
| 1/1 | 1/1 | 5.92 | 5.5 |
| 1/1 | 1/1 | 9.12 | 8.72 |
| 1/1 | 1/1 | 6.85 | 6.48 |
| 0/1 | 1/1 | 4.45 | 6.23 |
| 1/1 | 1/1 | 5.1 | 6.94 |
| 0/1 | 1/1 | 4.41 | 6.3 |
| 1/1 | 1/1 | 4.62 | 6.56 |
| 0/1 | 1/1 | 3.46 | 6.07 |
| 1/1 | 1/1 | 6.76 | 5.85 |
| 1/1 | 1/1 | 9.85 | 9.41 |
| 1/1 | 1/1 | 9.9 | 9.47 |
| 1/1 | 1/1 | 4.93 | 6.62 |
| 1/1 | 1/1 | 5.3 | 7.04 |
| 0/1 | 1/1 | 4.73 | 6.71 |
| 0/1 | 1/1 | 4.49 | 6.54 |
| 1/1 | 1/1 | 3.9 | 6.08 |
| 1/1 | 0/1 | 3.99 | 2.85 |
| 1/1 | 0/1 | 4.02 | 2.94 |
| 1/1 | 1/1 | 4.15 | 3.22 |
| 1/1 | 1/1 | 4.61 | 3.78 |
| 1/1 | 1/1 | 4.72 | 6.13 |
| 0/1 | 1/1 | 2.83 | 4.54 |
| 1/1 | 1/1 | 4.21 | 5.93 |
| 0/1 | 1/1 | 3.15 | 5.1 |
| 1/1 | 0/1 | 4.12 | 1.86 |
| 1/1 | 1/1 | 6.88 | 4.67 |
| 1/1 | 1/1 | 6.5 | 4.55 |
| 1/1 | 1/1 | 5.38 | 3.53 |
| 1/1 | 0/1 | 4.91 | 3.12 |
| 0/1 | 1/1 | 9.74 | 9.99 |
| 0/1 | 1/1 | 2.71 | 2.96 |
| 1/1 | 1/1 | 8.48 | 8.8 |
| 1/1 | 1/1 | 4.03 | 4.34 |
| 1/1 | 1/1 | 5.51 | 5.93 |
| 1/1 | 1/1 | 9.51 | 9.96 |
| 0/1 | 1/1 | 2.96 | 3.54 |
| 1/1 | 1/1 | 4.88 | 5.47 |
| 0/1 | 1/1 | 5.8 | 6.62 |
| 1/1 | 1/1 | 6.48 | 7.32 |
| 1/1 | 1/1 | 10.84 | 10.57 |
| 0/1 | 1/1 | 2.98 | 2.97 |
| 0/1 | 1/1 | 7.99 | 7.72 |
| 1/1 | 1/1 | 7.88 | 7.65 |
| 1/1 | 1/1 | 6.53 | 6.63 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.39 | 7.47 |
| 1/1 | 1/1 | 8.21 | 7.78 |
| 1/1 | 1/1 | 5.73 | 7.37 |
| 0/1 | 1/1 | 4.28 | 6.14 |
| 1/1 | 1/1 | 5.61 | 7.51 |
| 1/1 | 1/1 | 6.89 | 8.79 |
| 0/1 | 1/1 | 4.95 | 6.91 |
| 1/1 | 1/1 | 3.88 | 5.9 |
| 1/1 | 1/1 | 6.92 | 9 |
| 0/1 | 1/1 | 2.54 | 5.56 |
| 1/1 | 0/1 | 6.45 | 5.49 |
| 1/1 | 1/1 | 8.19 | 7.49 |
| 1/1 | 1/1 | 8.23 | 7.13 |
| 1/1 | 1/1 | 6.6 | 5.79 |
| 1/1 | 1/1 | 6.93 | 6.15 |
| 1/1 | 1/1 | 10.63 | 9.95 |
| 1/1 | 1/1 | 6.08 | 5.41 |
| 1/1 | 1/1 | 8.08 | 7.15 |
| 1/1 | 1/1 | 9.69 | 9.17 |
| 1/1 | 1/1 | 11.03 | 10.52 |
| 1/1 | 1/1 | 9.14 | 8.65 |
| 1/1 | 1/1 | 8.67 | 8.23 |
| 0/1 | 1/1 | 5.8 | 4.74 |
| 1/1 | 1/1 | 4.33 | 3.68 |
| 1/1 | 1/1 | 7.76 | 7.14 |
| 1/1 | 1/1 | 7.89 | 5.32 |
| 1/1 | 1/1 | 5.9 | 3.64 |
| 1/1 | 1/1 | 5.16 | 5.29 |
| 0/1 | 1/1 | 6.37 | 6.51 |
| 0/1 | 1/1 | 2.95 | 3.3 |
| 1/1 | 1/1 | 6.9 | 7.62 |
| 1/1 | 1/1 | 5.39 | 6.36 |
| 1/1 | 1/1 | 5.65 | 4.58 |
| 1/1 | 1/1 | 4.01 | 3.18 |
| 1/1 | 1/1 | 8.19 | 7.4 |
| 1/1 | 1/1 | 6.01 | 5.44 |
| 1/1 | 1/1 | 9.47 | 6.07 |
| 1/1 | 1/1 | 8.88 | 5.94 |
| 1/1 | 1/1 | 4.94 | 4.17 |
| 1/1 | 1/1 | 5.74 | 5.01 |
| 1/1 | 1/1 | 9.37 | 8.66 |
| 1/1 | 0/1 | 7.81 | 7.12 |
| 1/1 | 1/1 | 7.31 | 6.65 |
| 1/1 | 1/1 | 8.3 | 7.78 |
| 1/1 | 1/1 | 7.12 | 6.6 |
| 1/1 | 1/1 | 5.12 | 4.69 |
| 1/1 | 1/1 | 5.16 | 4.84 |
| 1/1 | 1/1 | 7.24 | 6.93 |
| 1/1 | 1/1 | 9.2 | 8.91 |
| 1/1 | 1/1 | 8.52 | 8.25 |
| 1/1 | 1/1 | 4.61 | 4.37 |
| 1/1 | 1/1 | 4.07 | 3.94 |
| 1/1 | 1/1 | 7.07 | 6.98 |
| 1/1 | 1/1 | 6.88 | 6.83 |
| 0/1 | 1/1 | 7.06 | 7.09 |
| 0/1 | 1/1 | 5.24 | 5.32 |
| 1/1 | 1/1 | 4.09 | 4.2 |
| 0/1 | 1/1 | 5.6 | 5.76 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.62 | 4.79 |
| 1/1 | 1/1 | 5.52 | 5.94 |
| 1/1 | 1/1 | 5.45 | 4.44 |
| 1/1 | 1/1 | 10.91 | 9.97 |
| 1/1 | 0/1 | 3.09 | 2.28 |
| 1/1 | 0/1 | 2.96 | 2.17 |
| 1/1 | 1/1 | 5.73 | 5.02 |
| 1/1 | 1/1 | 3.2 | 2.69 |
| 1/1 | 1/1 | 4.33 | 5.84 |
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 10.39 | 5.67 |
| 1/1 | 1/1 | 6 | 4.07 |
| 1/1 | 1/1 | 11.16 | 9.38 |
| 1/1 | 1/1 | 8.3 | 6.79 |
| 1/1 | 1/1 | 7.84 | 6.82 |
| 1/1 | 1/1 | 6.98 | 6.31 |
| 1/1 | 0/1 | 4.52 | 4 |
| 1/1 | 1/1 | 7.99 | 7.69 |
| 1/1 | 1/1 | 12.8 | 12.61 |
| 1/1 | 1/1 | 10.91 | 10.77 |
| 1/1 | 1/1 | 6.71 | 6.69 |
| 1/1 | 1/1 | 6.48 | 5.7 |
| 1/1 | 1/1 | 6.95 | 6.25 |
| 1/1 | 1/1 | 3.41 | 3.04 |
| 1/1 | 1/1 | 6.31 | 5.94 |
| 1/1 | 1/1 | 7.59 | 7.25 |
| 1/1 | 1/1 | 6.3 | 5.98 |
| 1/1 | 1/1 | 9.7 | 9.41 |
| 1/1 | 1/1 | 4.71 | 4.43 |
| 1/1 | 1/1 | 3.6 | 5.48 |
| 1/1 | 1/1 | 8.52 | 7.6 |
| 1/1 | 1/1 | 10.06 | 9.33 |
| 1/1 | 1/1 | 9.27 | 8.54 |
| 1/1 | 1/1 | 4.56 | 3.92 |
| 1/1 | 1/1 | 5.33 | 4.71 |
| 0/1 | 1/1 | 4.38 | 3.93 |
| 1/1 | 1/1 | 7.5 | 9.1 |
| 1/1 | 1/1 | 7.48 | 9.1 |
| 1/1 | 1/1 | 7.05 | 8.72 |
| 1/1 | 1/1 | 5.48 | 7.53 |
| 0/1 | 1/1 | 4.1 | 7.13 |
| 1/1 | 0/1 | 3.18 | 2.32 |
| 1/1 | 0/1 | 6.36 | 5.52 |
| 1/1 | 1/1 | 5.66 | 4.97 |
| 1/1 | 1/1 | 6.56 | 6.08 |
| 1/1 | 1/1 | 6.7 | 6.24 |
| 1/1 | 1/1 | 8.61 | 8.05 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.57 | 3.35 |
| 1/1 | 1/1 | 8.51 | 8.38 |
| 1/1 | 1/1 | 7.51 | 7.42 |
| 1/1 | 1/1 | 3.63 | 5.68 |
| 1/1 | 1/1 | 4.79 | 3.89 |
| 1/1 | 1/1 | 4.17 | 3.58 |
| 1/1 | 1/1 | 6.65 | 6.09 |
| 1/1 | 1/1 | 3.49 | 2.98 |
| 1/1 | 1/1 | 5 | 4.54 |
| 1/1 | 0/1 | 4.33 | 2.51 |
| 1/1 | 1/1 | 12.06 | 10.32 |
| 1/1 | 1/1 | 5.8 | 4.44 |
| 1/1 | 1/1 | 4.43 | 5.67 |
| 1/1 | 1/1 | 5.43 | 6.68 |
| 1/1 | 1/1 | 6.33 | 7.69 |
| 1/1 | 1/1 | 5.22 | 6.68 |
| 1/1 | 1/1 | 12.1 | 10.71 |
| 1/1 | 1/1 | 4.42 | 6.07 |
| 1/1 | 1/1 | 4.32 | 6.15 |
| 1/1 | 1/1 | 5.33 | 4.21 |
| 1/1 | 1/1 | 5.2 | 4.29 |
| 1/1 | 1/1 | 8.36 | 7.58 |
| 1/1 | 1/1 | 8.55 | 7.87 |
| 1/1 | 1/1 | 7.31 | 6.74 |
| 0/1 | 1/1 | 6.43 | 5.87 |
| 0/1 | 1/1 | 6.7 | 6.3 |
| 1/1 | 1/1 | 6.83 | 6.56 |
| 1/1 | 1/1 | 7 | 6.77 |
| 1/1 | 1/1 | 5.97 | 5.79 |
| 1/1 | 0/1 | 3.15 | 2.28 |
| 1/1 | 0/1 | 3.83 | 3.34 |
| 1/1 | 1/1 | 7.6 | 7.18 |
| 1/1 | 1/1 | 7.03 | 6.62 |
| 1/1 | 1/1 | 5.61 | 5 |
| 1/1 | 1/1 | 7.03 | 6.51 |
| 1/1 | 1/1 | 5.92 | 5.47 |
| 1/1 | 1/1 | 7.42 | 7.05 |
| 1/1 | 1/1 | 10.78 | 10.47 |
| 1/1 | 1/1 | 8.39 | 8.11 |
| 1/1 | 1/1 | 4.86 | 4.61 |
| 0/1 | 1/1 | 3.8 | 3.57 |
| 1/1 | 1/1 | 6.7 | 6.47 |
| 1/1 | 1/1 | 6.59 | 6.45 |
| 0/1 | 1/1 | 3.99 | 5.89 |
| 0/1 | 1/1 | 3.25 | 5.22 |
| 1/1 | 1/1 | 4.51 | 6.6 |
| 0/1 | 1/1 | 3.8 | 5.94 |
| 0/1 | 1/1 | 3.13 | 5.32 |
| 1/1 | 1/1 | 3.96 | 6.16 |
| 1/1 | 1/1 | 4.42 | 6.63 |
| 0/1 | 1/1 | 3.68 | 5.92 |
| 0/1 | 1/1 | 3.22 | 5.59 |
| 0/1 | 1/1 | 2.94 | 5.38 |
| 1/1 | 1/1 | 4.55 | 7.03 |
| 1/1 | 1/1 | 4.41 | 6.89 |
| 1/1 | 1/1 | 4.79 | 7.49 |
| 0/1 | 1/1 | 2.81 | 5.53 |
| 1/1 | 1/1 | 5.32 | 4.74 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 4.22 | 3.75 |
| 1/1 | 1/1 | 4.63 | 4.19 |
| 1/1 | 1/1 | 6.41 | 6.01 |
| 1/1 | 1/1 | 5.3 | 4.92 |
| 1/1 | 1/1 | 6.68 | 6.38 |
| 1/1 | 1/1 | 6.16 | 5.95 |
| 1/1 | 1/1 | 5.36 | 5.19 |
| 1/1 | 1/1 | 9.62 | 9.46 |
| 1/1 | 1/1 | 3.37 | 3.24 |
| 1/1 | 1/1 | 4.41 | 4.3 |
| 1/1 | 1/1 | 9.14 | 9.03 |
| 1/1 | 1/1 | 4.83 | 6.78 |
| 1/1 | 1/1 | 4.85 | 6.81 |
| 1/1 | 1/1 | 4.96 | 7 |
| 0/1 | 1/1 | 3.57 | 6.28 |
| 1/1 | 1/1 | 6.77 | 6.02 |
| 1/1 | 1/1 | 5.88 | 5.43 |
| 1/1 | 1/1 | 4.84 | 7.04 |
| 0/1 | 1/1 | 3.64 | 6.11 |
| 0/1 | 1/1 | 3.59 | 6.28 |
| 1/1 | 1/1 | 7.96 | 7.45 |
| 1/1 | 1/1 | 6.9 | 6.49 |
| 1/1 | 1/1 | 5.98 | 5.59 |
| 1/1 | 1/1 | 8.18 | 7.81 |
| 1/1 | 1/1 | 7.57 | 7.27 |
| 1/1 | 1/1 | 8.77 | 8.48 |
| 1/1 | 1/1 | 6.89 | 6.67 |
| 1/1 | 1/1 | 6.35 | 6.2 |
| 1/1 | 1/1 | 9.98 | 9.85 |
| 1/1 | 1/1 | 8.43 | 8.3 |
| 1/1 | 1/1 | 7.94 | 7.82 |
| 1/1 | 1/1 | 9.58 | 9.48 |
| 1/1 | 1/1 | 9.03 | 8.98 |
| 1/1 | 1/1 | 5.87 | 5.82 |
| 0/1 | 1/1 | 4.43 | 6.47 |
| 1/1 | 1/1 | 5.66 | 7.77 |
| 0/1 | 1/1 | 3.5 | 5.78 |
| 0/1 | 1/1 | 4.24 | 6.74 |
| 0/1 | 1/1 | 2.73 | 5.24 |
| 0/1 | 1/1 | 3.72 | 6.59 |
| 0/1 | 1/1 | 2.49 | 5.49 |
| 1/1 | 1/1 | 3.89 | 7.01 |
| 0/1 | 1/1 | 2.85 | 6.14 |
| 0/1 | 1/1 | 3.02 | 6.72 |
| 1/1 | 1/1 | 4.24 | 7.95 |
| 1/1 | 0/1 | 3.8 | 2.9 |
| 0/1 | 1/1 | 3.28 | 4.88 |
| 1/1 | 1/1 | 3.83 | 2.99 |
| 1/1 | 0/1 | 2.72 | 2.06 |
| 1/1 | 1/1 | 3.99 | 5.88 |
| 1/1 | 1/1 | 2.61 | 5.11 |
| 1/1 | 1/1 | 4.75 | 3.82 |
| 1/1 | 1/1 | 4.53 | 3.96 |
| 1/1 | 0/1 | 5.01 | 3.11 |
| 1/1 | 0/1 | 5.34 | 3.51 |
| 1/1 | 0/1 | 4.09 | 2.58 |
| 1/1 | 0/1 | 3.89 | 2.41 |
| 0/1 | 1/1 | 6.24 | 6.88 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.02 | 4.7 |
| 1/1 | 0/1 | 4.21 | 3.27 |
| 1/1 | 1/1 | 5.08 | 6.81 |
| 1/1 | 1/1 | 4.81 | 6.99 |
| 1/1 | 1/1 | 6.92 | 9.18 |
| 1/1 | 1/1 | 10.28 | 8.79 |
| 1/1 | 0/1 | 5.24 | 3.76 |
| 1/1 | 0/1 | 6.48 | 5.05 |
| 1/1 | 1/1 | 11.01 | 9.7 |
| 1/1 | 1/1 | 10.8 | 9.64 |
| 1/1 | 1/1 | 8.04 | 7.41 |
| 1/1 | 1/1 | 6.16 | 8.12 |
| 1/1 | 1/1 | 5.38 | 8.26 |
| 1/1 | 1/1 | 11.31 | 10.83 |
| 1/1 | 1/1 | 10.7 | 10.38 |
| 1/1 | 1/1 | 8.95 | 8.76 |
| 1/1 | 1/1 | 8.09 | 8.08 |
| 1/1 | 1/1 | 7.27 | 6.61 |
| 1/1 | 1/1 | 6.02 | 5.46 |
| 1/1 | 1/1 | 5.01 | 4.49 |
| 1/1 | 1/1 | 6.33 | 5.99 |
| 1/1 | 1/1 | 4.04 | 3.76 |
| 1/1 | 1/1 | 8.1 | 7.86 |
| 1/1 | 1/1 | 4.91 | 4.71 |
| 1/1 | 1/1 | 4.33 | 6.25 |
| 0/1 | 1/1 | 1.99 | 4.58 |
| 1/1 | 0/1 | 4.03 | 3.52 |
| 1/1 | 1/1 | 6.35 | 6.03 |
| 1/1 | 1/1 | 10.21 | 9.94 |
| 1/1 | 1/1 | 9.44 | 9.27 |
| 1/1 | 1/1 | 8.09 | 7.97 |
| 1/1 | 1/1 | 11.12 | 11.01 |
| 1/1 | 1/1 | 11.07 | 11.04 |
| 0/1 | 1/1 | 3.78 | 5.96 |
| 0/1 | 1/1 | 3.93 | 6.58 |
| 1/1 | 1/1 | 8.43 | 7.02 |
| 1/1 | 1/1 | 6.23 | 5.18 |
| 1/1 | 1/1 | 8.69 | 7 |
| 1/1 | 1/1 | 2.78 | 3.68 |
| 0/1 | 1/1 | 3.83 | 4.82 |
| 1/1 | 1/1 | 3.88 | 5.01 |
| 0/1 | 1/1 | 2.62 | 3.87 |
| 0/1 | 1/1 | 3.36 | 4.64 |
| 1/1 | 1/1 | 5.89 | 5.22 |
| 1/1 | 1/1 | 10.96 | 10.34 |
| 1/1 | 1/1 | 5.96 | 5.46 |
| 1/1 | 1/1 | 6.79 | 6.59 |
| 1/1 | 1/1 | 6.14 | 5.74 |
| 1/1 | 1/1 | 8.01 | 7.9 |
| 1/1 | 1/1 | 7.01 | 6.92 |
| 0/1 | 1/1 | 2.19 | 2.24 |
| 1/1 | 1/1 | 4.82 | 6.93 |
| 0/1 | 1/1 | 2.38 | 5.04 |
| 1/1 | 0/1 | 7.72 | 6.95 |
| 1/1 | 1/1 | 5.59 | 5.04 |
| 1/1 | 1/1 | 7.69 | 7.21 |
| 1/1 | 1/1 | 5.51 | 5.17 |
| 1/1 | 1/1 | 6.68 | 6.35 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.89 | 5.58 |
| 1/1 | 1/1 | 5.71 | 5.42 |
| 0/1 | 1/1 | 2.83 | 4.68 |
| 1/1 | 1/1 | 5.83 | 5.25 |
| 0/1 | 1/1 | 5.21 | 4.88 |
| 0/1 | 1/1 | 4.12 | 3.92 |
| 0/1 | 1/1 | 2.67 | 2.51 |
| 1/1 | 1/1 | 5.96 | 7.93 |
| 1/1 | 1/1 | 4.16 | 6.17 |
| 1/1 | 0/1 | 4.58 | 2.57 |
| 1/1 | 0/1 | 4.18 | 2.61 |
| 1/1 | 1/1 | 4.69 | 5.17 |
| 1/1 | 1/1 | 6.19 | 5.45 |
| 1/1 | 1/1 | 7.36 | 6.71 |
| 1/1 | 1/1 | 5.74 | 5.41 |
| 1/1 | 1/1 | 4.76 | 6.5 |
| 1/1 | 1/1 | 2.22 | 4.03 |
| 1/1 | 1/1 | 4.61 | 6.49 |
| 1/1 | 1/1 | 3.79 | 5.85 |
| 1/1 | 1/1 | 5.9 | 3.42 |
| 1/1 | 1/1 | 11.48 | 11.52 |
| 1/1 | 1/1 | 11.57 | 11.64 |
| 1/1 | 1/1 | 8.08 | 8.15 |
| 1/1 | 1/1 | 11.4 | 11.49 |
| 1/1 | 1/1 | 11.63 | 11.77 |
| 1/1 | 1/1 | 10.76 | 10.92 |
| 1/1 | 0/1 | 4.35 | 2.26 |
| 1/1 | 1/1 | 4.38 | 4.83 |
| 1/1 | 1/1 | 4.74 | 5.28 |
| 0/1 | 1/1 | 2.89 | 3.74 |
| 1/1 | 1/1 | 6.7 | 7.67 |
| 1/1 | 1/1 | 3.25 | 2.64 |
| 1/1 | 1/1 | 9.76 | 9.19 |
| 1/1 | 1/1 | 9.02 | 8.59 |
| 1/1 | 1/1 | 9.33 | 8.94 |
| 1/1 | 1/1 | 9.91 | 9.52 |
| 1/1 | 1/1 | 2.79 | 2.66 |
| 1/1 | 1/1 | 8.19 | 4.72 |
| 1/1 | 1/1 | 7.02 | 3.88 |
| 1/1 | 1/1 | 8.97 | 5.97 |
| 1/1 | 1/1 | 5.8 | 5.02 |
| 1/1 | 1/1 | 7.52 | 6.82 |
| 1/1 | 1/1 | 5.39 | 4.69 |
| 1/1 | 0/1 | 3.82 | 3.15 |
| 1/1 | 1/1 | 5.67 | 5.09 |
| 1/1 | 1/1 | 2.93 | 2.48 |
| 0/1 | 1/1 | 4.53 | 4.11 |
| 1/1 | 1/1 | 9.04 | 8.77 |
| 1/1 | 1/1 | 3.88 | 3.65 |
| 1/1 | 1/1 | 3.94 | 3.71 |
| 1/1 | 1/1 | 7.86 | 7.83 |
| 0/1 | 1/1 | 5.23 | 5.26 |
| 1/1 | 1/1 | 3.76 | 4.21 |
| 0/1 | 1/1 | 4.36 | 4.81 |
| 0/1 | 1/1 | 4.63 | 5.79 |
| 1/1 | 0/1 | 3.98 | 2.57 |
| 1/1 | 1/1 | 4.2 | 5.51 |
| 0/1 | 1/1 | 2.58 | 4.53 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 4.02 | 2.23 |
| 1/1 | 1/1 | 8.81 | 7.44 |
| 1/1 | 1/1 | 5.77 | 4.46 |
| 1/1 | 1/1 | 4.1 | 4.79 |
| 1/1 | 1/1 | 3.35 | 4.08 |
| 0/1 | 1/1 | 2.11 | 3.11 |
| 0/1 | 1/1 | 3.23 | 4.24 |
| 1/1 | 1/1 | 8.08 | 6.4 |
| 1/1 | 1/1 | 5.53 | 6.53 |
| 0/1 | 1/1 | 2.69 | 4.67 |
| 1/1 | 1/1 | 7.36 | 6.74 |
| 1/1 | 1/1 | 3.23 | 2.82 |
| 1/1 | 1/1 | 6.93 | 4.96 |
| 1/1 | 1/1 | 9.83 | 8.3 |
| 1/1 | 1/1 | 3.13 | 3.67 |
| 1/1 | 1/1 | 4.89 | 5.44 |
| 0/1 | 1/1 | 2.44 | 3.04 |
| 0/1 | 1/1 | 2.69 | 3.8 |
| 1/1 | 1/1 | 5.54 | 4.48 |
| 1/1 | 1/1 | 5.92 | 5.16 |
| 1/1 | 1/1 | 7.01 | 8.45 |
| 1/1 | 0/1 | 4.16 | 3.01 |
| 1/1 | 1/1 | 5.32 | 4.63 |
| 1/1 | 1/1 | 6.09 | 4.55 |
| 1/1 | 1/1 | 6.31 | 5.12 |
| 1/1 | 1/1 | 5.05 | 3.65 |
| 1/1 | 1/1 | 4.42 | 5.99 |
| 1/1 | 1/1 | 5.73 | 7.49 |
| 1/1 | 0/1 | 4.25 | 3.12 |
| 1/1 | 1/1 | 9.01 | 8.14 |
| 0/1 | 1/1 | 5.14 | 6.51 |
| 0/1 | 1/1 | 3.63 | 5.04 |
| 0/1 | 1/1 | 4.49 | 6.11 |
| 0/1 | 1/1 | 2.38 | 4.2 |
| 0/1 | 1/1 | 5.51 | 7.51 |
| 1/1 | 1/1 | 3.96 | 5.98 |
| 1/1 | 1/1 | 3.48 | 5.57 |
| 0/1 | 1/1 | 3.67 | 6.33 |
| 1/1 | 1/1 | 9.03 | 7.63 |
| 1/1 | 1/1 | 6.77 | 5.62 |
| 1/1 | 1/1 | 6.67 | 5.75 |
| 1/1 | 1/1 | 6.29 | 5.59 |
| 1/1 | 0/1 | 4.45 | 3.77 |
| 1/1 | 1/1 | 5.94 | 5.29 |
| 1/1 | 1/1 | 5.32 | 4.74 |
| 1/1 | 1/1 | 6.17 | 5.69 |
| 1/1 | 1/1 | 5.54 | 5.06 |
| 1/1 | 1/1 | 6.47 | 6.4 |
| 1/1 | 1/1 | 9.18 | 9.1 |
| 1/1 | 1/1 | 8.92 | 8.88 |
| 1/1 | 1/1 | 7.01 | 7.02 |
| 1/1 | 1/1 | 7.35 | 7.42 |
| 1/1 | 1/1 | 5.71 | 5.93 |
| 1/1 | 1/1 | 7.66 | 7.96 |
| 1/1 | 0/1 | 6.43 | 5.24 |
| 1/1 | 1/1 | 8.8 | 8.1 |
| 1/1 | 1/1 | 6.49 | 5.97 |
| 1/1 | 1/1 | 6.39 | 5.95 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.02 | 8.69 |
| 1/1 | 1/1 | 8.08 | 7.76 |
| 1/1 | 1/1 | 9.49 | 9.2 |
| 1/1 | 1/1 | 10.98 | 10.71 |
| 1/1 | 1/1 | 5.74 | 5.48 |
| 1/1 | 1/1 | 5.39 | 5.2 |
| 1/1 | 1/1 | 8.15 | 8.01 |
| 1/1 | 1/1 | 4.16 | 4.06 |
| 0/1 | 1/1 | 3.25 | 5.24 |
| 1/1 | 1/1 | 5.14 | 7.41 |
| 1/1 | 1/1 | 5.28 | 7.76 |
| 1/1 | 1/1 | 10.51 | 9.44 |
| 1/1 | 1/1 | 7.99 | 7.4 |
| 1/1 | 1/1 | 3.33 | 2.69 |
| 1/1 | 1/1 | 8.64 | 8.45 |
| 1/1 | 1/1 | 5.27 | 4.61 |
| 1/1 | 1/1 | 2.43 | 2.04 |
| 0/1 | 1/1 | 3.3 | 3.12 |
| 1/1 | 0/1 | 4.54 | 3.62 |
| 0/1 | 1/1 | 2.64 | 5.01 |
| 1/1 | 1/1 | 8.23 | 7.64 |
| 1/1 | 1/1 | 9.82 | 9.31 |
| 1/1 | 1/1 | 6.97 | 6.8 |
| 1/1 | 1/1 | 9.91 | 9.75 |
| 1/1 | 1/1 | 5.76 | 7.64 |
| 1/1 | 1/1 | 5.6 | 7.68 |
| 1/1 | 1/1 | 4.72 | 3.93 |
| 1/1 | 1/1 | 5.39 | 4.8 |
| 1/1 | 1/1 | 9.13 | 8.59 |
| 1/1 | 1/1 | 4.21 | 3.8 |
| 0/1 | 1/1 | 4.53 | 4.18 |
| 1/1 | 1/1 | 6.17 | 5.86 |
| 1/1 | 1/1 | 6.96 | 5.74 |
| 1/1 | 0/1 | 5.88 | 5.09 |
| 1/1 | 1/1 | 4.65 | 2.65 |
| 1/1 | 0/1 | 5.01 | 3.06 |
| 1/1 | 1/1 | 4.25 | 2.63 |
| 1/1 | 1/1 | 4.15 | 4.69 |
| 0/1 | 1/1 | 2.2 | 2.92 |
| 1/1 | 1/1 | 5.28 | 4.7 |
| 1/1 | 1/1 | 5.25 | 7.37 |
| 1/1 | 1/1 | 5.45 | 7.83 |
| 1/1 | 1/1 | 4.79 | 3.76 |
| 1/1 | 1/1 | 4.94 | 4.1 |
| 1/1 | 1/1 | 4.45 | 3.85 |
| 0/1 | 1/1 | 2.89 | 5.45 |
| 1/1 | 1/1 | 6.91 | 6.21 |
| 1/1 | 1/1 | 5.12 | 4.55 |
| 1/1 | 1/1 | 6.11 | 5.56 |
| 1/1 | 1/1 | 5.78 | 5.28 |
| 1/1 | 1/1 | 6.95 | 6.49 |
| 1/1 | 1/1 | 7.96 | 7.5 |
| 1/1 | 1/1 | 8.56 | 8.17 |
| 1/1 | 1/1 | 6.06 | 5.69 |
| 0/1 | 1/1 | 6.04 | 5.69 |
| 1/1 | 1/1 | 8.54 | 8.2 |
| 0/1 | 1/1 | 4.62 | 6.63 |
| 1/1 | 1/1 | 4.45 | 6.83 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 8.88 | 7.64 |
| 1/1 | 1/1 | 5.75 | 7.04 |
| 0/1 | 1/1 | 3.84 | 5.32 |
| 1/1 | 1/1 | 8.88 | 7.64 |
| 1/1 | 1/1 | 5.75 | 7.04 |
| 0/1 | 1/1 | 4.85 | 6.26 |
| 0/1 | 1/1 | 3.84 | 5.32 |
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 4.62 | 3.87 |
| 1/1 | 1/1 | 3.58 | 3.22 |
| 1/1 | 1/1 | 6.2 | 5.65 |
| 1/1 | 1/1 | 2.89 | 4.86 |
| 1/1 | 1/1 | 4.04 | 6.06 |
| 1/1 | 1/1 | 3.94 | 6.22 |
| 1/1 | 1/1 | 5.81 | 3.1 |
| 1/1 | 1/1 | 6.77 | 4.53 |
| 1/1 | 1/1 | 7.9 | 7.19 |
| 0/1 | 1/1 | 2.52 | 4.74 |
| 1/1 | 1/1 | 6.48 | 5.7 |
| 1/1 | 1/1 | 3.99 | 3.33 |
| 1/1 | 1/1 | 6.26 | 5.94 |
| 1/1 | 1/1 | 3.29 | 5.12 |
| 1/1 | 1/1 | 6.86 | 5.62 |
| 1/1 | 1/1 | 10.51 | 9.49 |
| 1/1 | 1/1 | 3.97 | 3.1 |
| 1/1 | 1/1 | 9.25 | 8.4 |
| 1/1 | 1/1 | 4.43 | 3.4 |
| 1/1 | 1/1 | 6.05 | 5.04 |
| 1/1 | 1/1 | 3.6 | 2.71 |
| 1/1 | 0/1 | 3.14 | 2.3 |
| 1/1 | 0/1 | 7.42 | 6.79 |
| 1/1 | 1/1 | 3.34 | 4.89 |
| 1/1 | 1/1 | 5.98 | 4.13 |
| 1/1 | 1/1 | 5.86 | 4.39 |
| 0/1 | 1/1 | 2.05 | 2.74 |
| 0/1 | 1/1 | 2.91 | 3.63 |
| 1/1 | 0/1 | 5.41 | 3.31 |
| 1/1 | 0/1 | 5.1 | 3.01 |
| 1/1 | 1/1 | 3.34 | 3.74 |
| 1/1 | 1/1 | 4.96 | 5.38 |
| 0/1 | 1/1 | 1.95 | 2.42 |
| 1/1 | 1/1 | 4.99 | 5.61 |
| 0/1 | 1/1 | 4.73 | 5.72 |
| 1/1 | 1/1 | 4.42 | 3.61 |
| 1/1 | 1/1 | 8.76 | 8.14 |
| 1/1 | 1/1 | 4.66 | 4.17 |
| 0/1 | 1/1 | 2.42 | 4.49 |
| 1/1 | 1/1 | 9.87 | 7.96 |
| 0/1 | 1/1 | 3.71 | 4.28 |
| 1/1 | 1/1 | 6.13 | 3.49 |
| 1/1 | 1/1 | 4.53 | 4.42 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.94 | 4.46 |
| 1/1 | 1/1 | 6.14 | 5.66 |
| 1/1 | 1/1 | 7.21 | 6.75 |
| 1/1 | 1/1 | 8.6 | 8.25 |
| 1/1 | 1/1 | 7.64 | 7.31 |
| 1/1 | 1/1 | 7.73 | 7.48 |
| 1/1 | 1/1 | 8.87 | 8.63 |
| 1/1 | 1/1 | 10.23 | 10.06 |
| 0/1 | 1/1 | 4.57 | 4.52 |
| 1/1 | 1/1 | 5.68 | 5.65 |
| 0/1 | 1/1 | 4.18 | 6.23 |
| 1/1 | 1/1 | 5.49 | 8.22 |
| 1/1 | 0/1 | 5.75 | 3.24 |
| 1/1 | 1/1 | 6.03 | 3.73 |
| 1/1 | 1/1 | 7.2 | 7.21 |
| 1/1 | 1/1 | 6.49 | 6.54 |
| 1/1 | 1/1 | 5.67 | 5.74 |
| 1/1 | 1/1 | 6.45 | 6.67 |
| 1/1 | 1/1 | 6.94 | 6.67 |
| 1/1 | 1/1 | 12.34 | 12.21 |
| 1/1 | 1/1 | 5.58 | 5.54 |
| 1/1 | 1/1 | 8.4 | 8.39 |
| 0/1 | 1/1 | 6.65 | 6.72 |
| 1/1 | 1/1 | 6.23 | 6.41 |
| 1/1 | 1/1 | 4.52 | 6.79 |
| 1/1 | 1/1 | 5.16 | 7.69 |
| 1/1 | 1/1 | 7.33 | 6.81 |
| 1/1 | 1/1 | 7.07 | 6.78 |
| 1/1 | 1/1 | 7.08 | 6.88 |
| 1/1 | 1/1 | 6.15 | 6.07 |
| 0/1 | 1/1 | 3.73 | 6.01 |
| 0/1 | 1/1 | 3.42 | 6.42 |
| 1/1 | 1/1 | 3.8 | 6.87 |
| 1/1 | 1/1 | 2.79 | 6.35 |
| 1/1 | 0/1 | 3.11 | 2.62 |
| 1/1 | 1/1 | 3 | 2.84 |
| 1/1 | 1/1 | 7.62 | 7.52 |
| 1/1 | 1/1 | 7.08 | 6.99 |
| 1/1 | 1/1 | 9.67 | 8.36 |
| 0/1 | 1/1 | 2.61 | 4.27 |
| 1/1 | 1/1 | 7.49 | 6.56 |
| 1/1 | 1/1 | 4.8 | 4.16 |
| 1/1 | 0/1 | 2.54 | 1.96 |
| 1/1 | 1/1 | 4.15 | 3.62 |
| 1/1 | 1/1 | 4.95 | 4.15 |
| 1/1 | 1/1 | 7.01 | 6.45 |
| 1/1 | 1/1 | 7.22 | 6.69 |
| 1/1 | 1/1 | 4.62 | 4.12 |
| 1/1 | 1/1 | 6.17 | 5.67 |
| 1/1 | 1/1 | 6.47 | 6.07 |
| 1/1 | 1/1 | 5.6 | 5.24 |
| 1/1 | 1/1 | 5.5 | 5.15 |
| 1/1 | 1/1 | 5.45 | 4.64 |
| 1/1 | 1/1 | 6.78 | 6.34 |
| 1/1 | 1/1 | 6.88 | 6.55 |
| 1/1 | 1/1 | 7 | 6.54 |
| 1/1 | 1/1 | 7.38 | 6.97 |
| 1/1 | 1/1 | 5.89 | 5.51 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.6 | 7.29 |
| 1/1 | 1/1 | 10.13 | 10.12 |
| 1/1 | 1/1 | 3.55 | 5.63 |
| 0/1 | 1/1 | 3.93 | 6.07 |
| 1/1 | 1/1 | 4.28 | 6.44 |
| 1/1 | 1/1 | 5.48 | 3.17 |
| 1/1 | 1/1 | 6.7 | 4.46 |
| 1/1 | 1/1 | 4.97 | 5.42 |
| 1/1 | 1/1 | 4.02 | 5.36 |
| 1/1 | 0/1 | 5.9 | 5.02 |
| 1/1 | 0/1 | 7.43 | 6.61 |
| 1/1 | 1/1 | 4.87 | 6.5 |
| 1/1 | 1/1 | 9.24 | 10.9 |
| 0/1 | 1/1 | 4.43 | 6.19 |
| 0/1 | 1/1 | 3.37 | 5.5 |
| 1/1 | 1/1 | 7.89 | 7.05 |
| 1/1 | 1/1 | 6.85 | 6.36 |
| 1/1 | 1/1 | 8.26 | 7.61 |
| 0/1 | 1/1 | 4.55 | 4.13 |
| 0/1 | 1/1 | 5.59 | 5.33 |
| 1/1 | 0/1 | 3.44 | 3.19 |
| 1/1 | 1/1 | 6.75 | 6.08 |
| 1/1 | 1/1 | 4.89 | 4.46 |
| 1/1 | 1/1 | 6.84 | 6.47 |
| 1/1 | 1/1 | 6.47 | 5.59 |
| 1/1 | 1/1 | 10.22 | 9.57 |
| 1/1 | 1/1 | 4.53 | 6.15 |
| 0/1 | 1/1 | 5.35 | 6.99 |
| 1/1 | 1/1 | 5.59 | 7.53 |
| 0/1 | 1/1 | 4.96 | 6.94 |
| 0/1 | 1/1 | 3.42 | 5.54 |
| 0/1 | 1/1 | 3.05 | 5.33 |
| 0/1 | 1/1 | 3.18 | 6.84 |
| 1/1 | 1/1 | 7.18 | 5.8 |
| 0/1 | 1/1 | 2.16 | 3.46 |
| 1/1 | 1/1 | 6.49 | 5.11 |
| 1/1 | 1/1 | 8.85 | 7.8 |
| 1/1 | 1/1 | 6.54 | 5.51 |
| 1/1 | 1/1 | 4.55 | 3.68 |
| 1/1 | 1/1 | 5.68 | 4.98 |
| 1/1 | 1/1 | 7.02 | 6.33 |
| 1/1 | 1/1 | 7.48 | 6.95 |
| 1/1 | 1/1 | 7.22 | 6.7 |
| 1/1 | 1/1 | 6.75 | 6.27 |
| 1/1 | 1/1 | 8.34 | 7.88 |
| 1/1 | 1/1 | 7.37 | 6.94 |
| 1/1 | 1/1 | 6.12 | 5.91 |
| 0/1 | 1/1 | 5.49 | 5.31 |
| 1/1 | 1/1 | 3.53 | 3.38 |
| 1/1 | 1/1 | 8.2 | 8.29 |
| 1/1 | 1/1 | 5.95 | 6.07 |
| 0/1 | 1/1 | 3.73 | 6.03 |
| 0/1 | 1/1 | 2.57 | 4.92 |
| 1/1 | 1/1 | 3 | 5.4 |
| 1/1 | 1/1 | 7.52 | 6.38 |
| 1/1 | 1/1 | 10.24 | 9.22 |
| 1/1 | 1/1 | 6.4 | 6.11 |
| 1/1 | 1/1 | 6.81 | 6.93 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.35 | 6.9 |
| 0/1 | 1/1 | 2.74 | 6.22 |
| 1/1 | 1/1 | 9.62 | 10 |
| 1/1 | 1/1 | 5.2 | 5.77 |
| 0/1 | 1/1 | 2.44 | 3.16 |
| 1/1 | 1/1 | 7.56 | 6.33 |
| 1/1 | 1/1 | 4.78 | 3.92 |
| 1/1 | 0/1 | 5.79 | 3.48 |
| 1/1 | 1/1 | 6.22 | 4.02 |
| 1/1 | 0/1 | 4.66 | 2.75 |
| 1/1 | 1/1 | 6.65 | 6.86 |
| 1/1 | 1/1 | 5.24 | 3.23 |
| 1/1 | 0/1 | 3.91 | 2.26 |
| 1/1 | 1/1 | 7.25 | 7.71 |
| 1/1 | 1/1 | 5.78 | 6.25 |
| 1/1 | 1/1 | 7.86 | 8.34 |
| 1/1 | 1/1 | 4.64 | 5.16 |
| 1/1 | 1/1 | 6.39 | 6.93 |
| 0/1 | 1/1 | 4.97 | 5.57 |
| 1/1 | 1/1 | 4.75 | 5.36 |
| 0/1 | 1/1 | 2.24 | 2.89 |
| 1/1 | 1/1 | 4.34 | 5.05 |
| 0/1 | 1/1 | 9.81 | 10.56 |
| 1/1 | 1/1 | 6.06 | 6.92 |
| 1/1 | 1/1 | 5.35 | 6.36 |
| 1/1 | 1/1 | 5.75 | 6.81 |
| 0/1 | 1/1 | 4.53 | 5.77 |
| 1/1 | 1/1 | 5.41 | 6.75 |
| 1/1 | 0/1 | 7.5 | 5.84 |
| 0/1 | 1/1 | 6.03 | 6.87 |
| 1/1 | 1/1 | 5.38 | 6.29 |
| 0/1 | 1/1 | 3.19 | 4.2 |
| 1/1 | 1/1 | 5.53 | 6.83 |
| 1/1 | 0/1 | 5.73 | 3.51 |
| 1/1 | 1/1 | 5.28 | 5.7 |
| 1/1 | 1/1 | 10.52 | 11.04 |
| 1/1 | 1/1 | 10.52 | 11.04 |
| 1/1 | 1/1 | 5.85 | 6.39 |
| 0/1 | 1/1 | 4.89 | 5.48 |
| 0/1 | 1/1 | 3.04 | 3.85 |
| 1/1 | 1/1 | 6.69 | 3.3 |
| 1/1 | 1/1 | 10.28 | 7.12 |
| 1/1 | 1/1 | 8.16 | 7.58 |
| 1/1 | 1/1 | 8.79 | 8.39 |
| 1/1 | 1/1 | 8.12 | 8.03 |
| 0/1 | 1/1 | 6.95 | 6.89 |
| 0/1 | 1/1 | 7.98 | 8.02 |
| 1/1 | 0/1 | 4.76 | 3.67 |
| 1/1 | 1/1 | 5.11 | 6.55 |
| 1/1 | 1/1 | 4.09 | 5.68 |
| 1/1 | 1/1 | 3.89 | 5.51 |
| 1/1 | 1/1 | 4.59 | 6.66 |
| 1/1 | 1/1 | 9 | 8.58 |
| 1/1 | 1/1 | 8.31 | 8.19 |
| 1/1 | 1/1 | 5.53 | 7.93 |
| 1/1 | 0/1 | 5.66 | 4.24 |
| 0/1 | 1/1 | 4.1 | 5.36 |
| 0/1 | 1/1 | 2.95 | 4.48 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.62 | 5.09 |
| 1/1 | 1/1 | 8.66 | 8.28 |
| 1/1 | 1/1 | 6.6 | 6.3 |
| 1/1 | 1/1 | 3.04 | 2.97 |
| 1/1 | 1/1 | 5.93 | 7.96 |
| 1/1 | 1/1 | 4.81 | 6.91 |
| 1/1 | 0/1 | 7.06 | 5.99 |
| 1/1 | 1/1 | 6.88 | 6.07 |
| 1/1 | 1/1 | 5.38 | 4.61 |
| 1/1 | 1/1 | 9.03 | 8.33 |
| 1/1 | 1/1 | 7.06 | 6.42 |
| 1/1 | 1/1 | 4.9 | 4.28 |
| 1/1 | 1/1 | 4.37 | 6 |
| 0/1 | 1/1 | 4.63 | 3.8 |
| 1/1 | 1/1 | 5.18 | 4.74 |
| 1/1 | 1/1 | 5.47 | 5.09 |
| 0/1 | 1/1 | 2.59 | 4.22 |
| 1/1 | 1/1 | 3.39 | 5.03 |
| 0/1 | 1/1 | 2.8 | 4.61 |
| 1/1 | 1/1 | 8.78 | 8.55 |
| 1/1 | 1/1 | 6.41 | 6.38 |
| 1/1 | 1/1 | 9.23 | 9.22 |
| 1/1 | 1/1 | 10.97 | 11.01 |
| 0/1 | 1/1 | 2.67 | 2.73 |
| 1/1 | 1/1 | 6.98 | 7.14 |
| 1/1 | 1/1 | 5.94 | 6.12 |
| 1/1 | 1/1 | 4.5 | 6.83 |
| 0/1 | 1/1 | 2.93 | 5.79 |
| 1/1 | 1/1 | 7.18 | 2.46 |
| 1/1 | 1/1 | 6.48 | 5.57 |
| 1/1 | 0/1 | 3.97 | 3.14 |
| 1/1 | 0/1 | 2.72 | 1.92 |
| 1/1 | 1/1 | 7.44 | 6.67 |
| 1/1 | 1/1 | 7.23 | 6.58 |
| 1/1 | 1/1 | 7.89 | 7.28 |
| 1/1 | 1/1 | 8 | 7.72 |
| 0/1 | 1/1 | 4.02 | 3.82 |
| 1/1 | 1/1 | 9.59 | 9.67 |
| 0/1 | 1/1 | 5.8 | 5.93 |
| 0/1 | 1/1 | 6.63 | 6.89 |
| 1/1 | 1/1 | 5.72 | 6.22 |
| 0/1 | 1/1 | 3.56 | 4.11 |
| 1/1 | 0/1 | 4.8 | 3.4 |
| 1/1 | 1/1 | 4.52 | 3.48 |
| 1/1 | 1/1 | 7.97 | 6.97 |
| 1/1 | 1/1 | 5.39 | 4.42 |
| 1/1 | 1/1 | 4.06 | 3.1 |
| 1/1 | 1/1 | 4.07 | 5.23 |
| 1/1 | 1/1 | 4.88 | 6.12 |
| 0/1 | 1/1 | 2.92 | 4.7 |
| 0/1 | 1/1 | 2.7 | 4.74 |
| 0/1 | 1/1 | 3.74 | 3.26 |
| 1/1 | 1/1 | 10.57 | 10.16 |
| 1/1 | 1/1 | 8.32 | 8.16 |
| 1/1 | 1/1 | 4.69 | 4.6 |
| 0/1 | 1/1 | 7.74 | 7.67 |
| 1/1 | 1/1 | 5.34 | 7.35 |
| 1/1 | 1/1 | 3.65 | 6 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 2.72 | 5.84 |
| 1/1 | 1/1 | 6.24 | 4.72 |
| 1/1 | 1/1 | 5.29 | 4.17 |
| 1/1 | 1/1 | 3.85 | 4.86 |
| 1/1 | 1/1 | 5.26 | 3.97 |
| 1/1 | 1/1 | 5.11 | 3.86 |
| 1/1 | 1/1 | 6.1 | 4.96 |
| 1/1 | 0/1 | 4.17 | 3.07 |
| 1/1 | 1/1 | 3.44 | 2.49 |
| 1/1 | 1/1 | 4.12 | 3.24 |
| 1/1 | 0/1 | 3.04 | 2.16 |
| 1/1 | 1/1 | 5.36 | 4.49 |
| 1/1 | 1/1 | 5.84 | 5 |
| 1/1 | 1/1 | 9.59 | 8.61 |
| 1/1 | 1/1 | 4.33 | 3.51 |
| 1/1 | 1/1 | 5.92 | 5.3 |
| 1/1 | 0/1 | 4.78 | 3.2 |
| 1/1 | 0/1 | 3.5 | 2.35 |
| 0/1 | 1/1 | 3.97 | 4.9 |
| 0/1 | 1/1 | 3.63 | 4.66 |
| 1/1 | 1/1 | 7.28 | 6.86 |
| 0/1 | 1/1 | 4.33 | 3.91 |
| 1/1 | 1/1 | 9.89 | 9.63 |
| 0/1 | 1/1 | 5.99 | 6.01 |
| 1/1 | 1/1 | 8.77 | 6.97 |
| 1/1 | 1/1 | 8.11 | 6.33 |
| 1/1 | 0/1 | 5.54 | 3.8 |
| 1/1 | 1/1 | 4.47 | 2.78 |
| 1/1 | 1/1 | 5.03 | 3.51 |
| 1/1 | 1/1 | 5.48 | 3.98 |
| 1/1 | 1/1 | 4.72 | 3.22 |
| 1/1 | 0/1 | 6.03 | 4.55 |
| 1/1 | 0/1 | 7.62 | 6.21 |
| 1/1 | 1/1 | 6.36 | 4.97 |
| 1/1 | 1/1 | 8.13 | 6.76 |
| 1/1 | 1/1 | 4.12 | 4.84 |
| 1/1 | 0/1 | 4.11 | 3.09 |
| 1/1 | 1/1 | 4.42 | 3.56 |
| 1/1 | 1/1 | 10.17 | 9.55 |
| 1/1 | 1/1 | 5.81 | 5.24 |
| 1/1 | 1/1 | 5.84 | 4.69 |
| 1/1 | 1/1 | 4.88 | 6.21 |
| 1/1 | 1/1 | 4.42 | 5.84 |
| 0/1 | 1/1 | 3.29 | 4.73 |
| 1/1 | 1/1 | 3.99 | 5.43 |
| 1/1 | 1/1 | 4.59 | 6.05 |
| 1/1 | 1/1 | 5.15 | 6.74 |
| 1/1 | 1/1 | 4.5 | 6.14 |
| 1/1 | 1/1 | 3.99 | 5.72 |
| 1/1 | 1/1 | 3.25 | 5.11 |
| 1/1 | 1/1 | 3.32 | 5.22 |
| 1/1 | 1/1 | 3.68 | 5.68 |
| 0/1 | 1/1 | 1.91 | 4.39 |
| 1/1 | 1/1 | 7.76 | 6.77 |
| 1/1 | 1/1 | 6.33 | 5.43 |
| 1/1 | 1/1 | 4.47 | 3.9 |
| 1/1 | 1/1 | 3.38 | 5.29 |
| 0/1 | 1/1 | 3.11 | 5.09 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.09 | 10.26 |
| 1/1 | 1/1 | 9.22 | 9.83 |
| 1/1 | 0/1 | 5.14 | 2.89 |
| 1/1 | 1/1 | 4.05 | 4.42 |
| 0/1 | 1/1 | 2.52 | 3 |
| 0/1 | 1/1 | 2.99 | 4.05 |
| 1/1 | 1/1 | 7.06 | 5.93 |
| 1/1 | 1/1 | 7.07 | 6.03 |
| 1/1 | 0/1 | 5.9 | 4.9 |
| 1/1 | 1/1 | 6.44 | 5.68 |
| 1/1 | 1/1 | 7.39 | 6.69 |
| 0/1 | 1/1 | 4 | 5.64 |
| 1/1 | 0/1 | 5.09 | 3.36 |
| 1/1 | 0/1 | 4.07 | 2.36 |
| 1/1 | 1/1 | 7.15 | 5.6 |
| 1/1 | 1/1 | 5.74 | 4.36 |
| 1/1 | 1/1 | 5.4 | 4.11 |
| 1/1 | 0/1 | 6 | 2.78 |
| 1/1 | 1/1 | 6 | 5.25 |
| 1/1 | 1/1 | 7.44 | 6.87 |
| 1/1 | 1/1 | 7.95 | 7.69 |
| 1/1 | 1/1 | 7.38 | 7.23 |
| 1/1 | 1/1 | 5.5 | 5.91 |
| 1/1 | 1/1 | 6.12 | 4.79 |
| 1/1 | 1/1 | 10.49 | 9.42 |
| 1/1 | 1/1 | 5.13 | 6.34 |
| 1/1 | 1/1 | 5.14 | 6.4 |
| 0/1 | 1/1 | 4.42 | 5.74 |
| 1/1 | 1/1 | 5.3 | 4.05 |
| 1/1 | 1/1 | 6.55 | 5.41 |
| 1/1 | 0/1 | 3.42 | 2.55 |
| 1/1 | 1/1 | 4.82 | 6.22 |
| 1/1 | 0/1 | 6.08 | 4.8 |
| 1/1 | 1/1 | 6.74 | 5.65 |
| 1/1 | 0/1 | 3.84 | 2.86 |
| 0/1 | 1/1 | 3.57 | 4.96 |
| 1/1 | 1/1 | 8.68 | 7.6 |
| 1/1 | 1/1 | 7.97 | 7.09 |
| 1/1 | 0/1 | 7.11 | 6.3 |
| 1/1 | 1/1 | 4.68 | 3.98 |
| 1/1 | 0/1 | 3.08 | 2.57 |
| 0/1 | 1/1 | 5.73 | 5.58 |
| 1/1 | 1/1 | 5.92 | 5.45 |
| 1/1 | 1/1 | 8.09 | 7.77 |
| 0/1 | 1/1 | 5.09 | 4.96 |
| 1/1 | 1/1 | 7.9 | 7.81 |
| 1/1 | 1/1 | 4.47 | 4.4 |
| 1/1 | 1/1 | 4.15 | 6.45 |
| 0/1 | 1/1 | 4.16 | 6.49 |
| 1/1 | 1/1 | 6.77 | 6.2 |
| 1/1 | 1/1 | 8.86 | 8.59 |
| 0/1 | 1/1 | 2.75 | 2.57 |
| 1/1 | 1/1 | 4.64 | 6.99 |
| 0/1 | 1/1 | 2.61 | 5.04 |
| 1/1 | 0/1 | 4.46 | 3.63 |
| 1/1 | 1/1 | 7.54 | 7.08 |
| 0/1 | 1/1 | 6.29 | 8.3 |
| 1/1 | 1/1 | 4.15 | 6.65 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 11.17 | 11.08 |
| 1/1 | 1/1 | 4.22 | 4.28 |
| 0/1 | 1/1 | 2.85 | 2.98 |
| 0/1 | 1/1 | 7.26 | 7.48 |
| 1/1 | 1/1 | 8.28 | 8.61 |
| 1/1 | 1/1 | 6.27 | 8.64 |
| 1/1 | 1/1 | 7.04 | 9.49 |
| 1/1 | 1/1 | 9.88 | 8.94 |
| 1/1 | 1/1 | 6.9 | 6.16 |
| 1/1 | 1/1 | 5.59 | 4.98 |
| 0/1 | 1/1 | 4.81 | 4.24 |
| 1/1 | 1/1 | 3.56 | 5.2 |
| 0/1 | 1/1 | 3.94 | 5.89 |
| 1/1 | 0/1 | 4.78 | 2.88 |
| 1/1 | 1/1 | 5.82 | 4.26 |
| 0/1 | 1/1 | 2.87 | 3.49 |
| 0/1 | 1/1 | 2.95 | 3.77 |
| 0/1 | 1/1 | 2.26 | 3.82 |
| 1/1 | 1/1 | 6.42 | 5.46 |
| 1/1 | 0/1 | 7.72 | 7.05 |
| 1/1 | 1/1 | 9.27 | 8.68 |
| 1/1 | 1/1 | 8.06 | 6.95 |
| 1/1 | 1/1 | 8.36 | 7.28 |
| 1/1 | 0/1 | 5.32 | 4.27 |
| 1/1 | 1/1 | 4.68 | 3.76 |
| 1/1 | 1/1 | 5.45 | 4.62 |
| 0/1 | 1/1 | 2.81 | 4.27 |
| 0/1 | 1/1 | 3.51 | 5.25 |
| 1/1 | 1/1 | 7.6 | 7.62 |
| 1/1 | 1/1 | 4.46 | 4.64 |
| 0/1 | 1/1 | 8.02 | 8.22 |
| 1/1 | 1/1 | 4.82 | 5.15 |
| 1/1 | 1/1 | 6.72 | 7.08 |
| 1/1 | 0/1 | 3.62 | 2.99 |
| 1/1 | 1/1 | 6.22 | 8.04 |
| 1/1 | 1/1 | 3.93 | 6.08 |
| 1/1 | 0/1 | 3.22 | 1.81 |
| 1/1 | 1/1 | 5.95 | 4.87 |
| 1/1 | 1/1 | 3.34 | 4.78 |
| 1/1 | 0/1 | 6.87 | 5.95 |
| 1/1 | 1/1 | 6.77 | 6.06 |
| 1/1 | 1/1 | 4.39 | 3.77 |
| 1/1 | 1/1 | 4.87 | 3.97 |
| 1/1 | 1/1 | 6.83 | 6.26 |
| 1/1 | 1/1 | 4.76 | 6.3 |
| 0/1 | 1/1 | 3.06 | 4.62 |
| 1/1 | 1/1 | 3.73 | 5.51 |
| 1/1 | 1/1 | 5.22 | 7.05 |
| 0/1 | 1/1 | 2.99 | 5.08 |
| 0/1 | 1/1 | 2.39 | 4.56 |
| 0/1 | 1/1 | 2.26 | 4.44 |
| 0/1 | 1/1 | 3.29 | 5.49 |
| 0/1 | 1/1 | 2.34 | 4.72 |
| 0/1 | 1/1 | 3.11 | 5.73 |
| 1/1 | 0/1 | 2.26 | 1.95 |
| 1/1 | 1/1 | 5.94 | 5.8 |
| 0/1 | 1/1 | 2.27 | 2.22 |
| 1/1 | 1/1 | 5.38 | 5.51 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.04 | 8.27 |
| 0/1 | 1/1 | 2.7 | 5.1 |
| 1/1 | 1/1 | 7.61 | 4.14 |
| 1/1 | 1/1 | 8.6 | 7.58 |
| 1/1 | 1/1 | 3.71 | 2.97 |
| 1/1 | 1/1 | 5.76 | 5.13 |
| 1/1 | 1/1 | 3.54 | 3.18 |
| 1/1 | 1/1 | 7.59 | 7.28 |
| 1/1 | 1/1 | 5.84 | 5.56 |
| 1/1 | 0/1 | 2.33 | 2.09 |
| 0/1 | 1/1 | 6.75 | 6.53 |
| 1/1 | 1/1 | 9.17 | 9 |
| 1/1 | 1/1 | 8.97 | 8.81 |
| 1/1 | 1/1 | 6.93 | 6.78 |
| 1/1 | 1/1 | 4.84 | 4.84 |
| 1/1 | 1/1 | 3.47 | 3.48 |
| 0/1 | 1/1 | 5.48 | 5.65 |
| 0/1 | 1/1 | 2.71 | 3.16 |
| 0/1 | 1/1 | 3.66 | 4.13 |
| 1/1 | 1/1 | 5.82 | 4.84 |
| 1/1 | 0/1 | 2.43 | 1.83 |
| 1/1 | 1/1 | 4.85 | 6.32 |
| 1/1 | 1/1 | 4.6 | 7.07 |
| 1/1 | 1/1 | 8.84 | 7.84 |
| 1/1 | 0/1 | 6.39 | 5.53 |
| 0/1 | 1/1 | 2.65 | 4.88 |
| 1/1 | 1/1 | 6.45 | 4.51 |
| 1/1 | 0/1 | 6.28 | 4.44 |
| 0/1 | 1/1 | 3.83 | 4.48 |
| 1/1 | 1/1 | 8.2 | 6.78 |
| 1/1 | 1/1 | 4.34 | 3.2 |
| 1/1 | 1/1 | 7.08 | 4.87 |
| 1/1 | 1/1 | 4.7 | 4.98 |
| 0/1 | 1/1 | 3.39 | 3.89 |
| 1/1 | 1/1 | 4.7 | 5.31 |
| 1/1 | 0/1 | 7.02 | 5.4 |
| 1/1 | 1/1 | 8.11 | 6.77 |
| 0/1 | 1/1 | 3.39 | 4.31 |
| 1/1 | 0/1 | 3.09 | 2.02 |
| 1/1 | 1/1 | 5.79 | 5.15 |
| 1/1 | 1/1 | 5.14 | 3.46 |
| 0/1 | 1/1 | 2.54 | 3.35 |
| 1/1 | 1/1 | 4.85 | 5.86 |
| 1/1 | 1/1 | 8.4 | 6.97 |
| 1/1 | 1/1 | 8.02 | 6.96 |
| 1/1 | 1/1 | 6.12 | 7.24 |
| 1/1 | 1/1 | 4.66 | 5.84 |
| 1/1 | 1/1 | 6.95 | 8.14 |
| 1/1 | 1/1 | 4.14 | 5.37 |
| 1/1 | 0/1 | 3.24 | 2.56 |
| 1/1 | 1/1 | 7.39 | 6.93 |
| 1/1 | 1/1 | 7.27 | 6.83 |
| 1/1 | 1/1 | 2.54 | 2.14 |
| 1/1 | 1/1 | 4.38 | 4.01 |
| 1/1 | 1/1 | 4.85 | 3.91 |
| 1/1 | 0/1 | 7.34 | 6.69 |
| 0/1 | 1/1 | 2.71 | 4.36 |
| 1/1 | 1/1 | 4.41 | 6.1 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 5.39 | 4.21 |
| 1/1 | 0/1 | 6.23 | 5.24 |
| 1/1 | 0/1 | 6.97 | 6.1 |
| 1/1 | 0/1 | 6.64 | 5.91 |
| 0/1 | 1/1 | 3.86 | 5.17 |
| 1/1 | 1/1 | 4.29 | 5.66 |
| 1/1 | 1/1 | 8.3 | 6.9 |
| 0/1 | 1/1 | 5.05 | 6.28 |
| 1/1 | 1/1 | 4.47 | 5.78 |
| 1/1 | 1/1 | 5.4 | 7.07 |
| 1/1 | 1/1 | 6 | 7.9 |
| 1/1 | 1/1 | 11.35 | 9.76 |
| 1/1 | 1/1 | 7.72 | 6.51 |
| 0/1 | 1/1 | 4.48 | 5.37 |
| 1/1 | 1/1 | 7.81 | 8.77 |
| 1/1 | 1/1 | 7.79 | 8.89 |
| 1/1 | 0/1 | 3.57 | 1.96 |
| 1/1 | 1/1 | 7.17 | 5.89 |
| 1/1 | 1/1 | 4.49 | 5.46 |
| 1/1 | 0/1 | 4.99 | 4.01 |
| 1/1 | 1/1 | 7.47 | 6.92 |
| 1/1 | 1/1 | 7.32 | 8.86 |
| 0/1 | 1/1 | 4.72 | 6.27 |
| 0/1 | 1/1 | 3.02 | 5.75 |
| 0/1 | 1/1 | 3.68 | 7.25 |
| 1/1 | 1/1 | 7.82 | 6.98 |
| 1/1 | 1/1 | 4.72 | 3.92 |
| 1/1 | 1/1 | 3.73 | 3 |
| 1/1 | 1/1 | 5.23 | 4.62 |
| 1/1 | 1/1 | 6.97 | 6.58 |
| 1/1 | 1/1 | 5.43 | 5.09 |
| 1/1 | 1/1 | 7.07 | 7.03 |
| 1/1 | 1/1 | 9.83 | 9.81 |
| 1/1 | 1/1 | 9.27 | 9.32 |
| 1/1 | 1/1 | 10.46 | 9.76 |
| 1/1 | 1/1 | 9.39 | 9.07 |
| 1/1 | 1/1 | 5.66 | 7.53 |
| 1/1 | 0/1 | 3.18 | 2.46 |
| 0/1 | 1/1 | 3.47 | 5.34 |
| 1/1 | 1/1 | 7.04 | 5.87 |
| 1/1 | 1/1 | 7.97 | 6.9 |
| 1/1 | 1/1 | 7.97 | 6.96 |
| 1/1 | 1/1 | 7.97 | 7 |
| 1/1 | 1/1 | 6.48 | 5.58 |
| 1/1 | 1/1 | 6.99 | 6.12 |
| 1/1 | 1/1 | 6.3 | 5.51 |
| 0/1 | 1/1 | 2.75 | 5.14 |
| 1/1 | 1/1 | 5.06 | 4.42 |
| 1/1 | 1/1 | 5.12 | 4.68 |
| 1/1 | 1/1 | 3.81 | 3.41 |
| 1/1 | 1/1 | 4.82 | 4.54 |
| 1/1 | 1/1 | 8.4 | 8.2 |
| 1/1 | 1/1 | 5.64 | 7.59 |
| 1/1 | 1/1 | 5.36 | 3.65 |
| 0/1 | 1/1 | 2.5 | 3.51 |
| 1/1 | 1/1 | 4.21 | 5.67 |
| 1/1 | 1/1 | 7.4 | 6.5 |
| 1/1 | 1/1 | 5.55 | 5 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.15 | 6.06 |
| 1/1 | 1/1 | 5.45 | 5.43 |
| 1/1 | 1/1 | 4.13 | 6.58 |
| 1/1 | 1/1 | 6.87 | 6.76 |
| 1/1 | 1/1 | 13.08 | 13.3 |
| 1/1 | 1/1 | 9.58 | 9.88 |
| 1/1 | 0/1 | 6.48 | 3.13 |
| 1/1 | 1/1 | 5.85 | 4.95 |
| 1/1 | 1/1 | 6.45 | 5.58 |
| 1/1 | 0/1 | 3.94 | 3.08 |
| 1/1 | 0/1 | 3.64 | 2.88 |
| 1/1 | 1/1 | 5.87 | 5.25 |
| 1/1 | 1/1 | 4.04 | 3.44 |
| 1/1 | 1/1 | 2.93 | 2.36 |
| 1/1 | 1/1 | 4.31 | 3.76 |
| 0/1 | 1/1 | 6.01 | 5.63 |
| 0/1 | 1/1 | 7.84 | 7.62 |
| 1/1 | 1/1 | 6.22 | 6.09 |
| 1/1 | 1/1 | 7.03 | 6.91 |
| 1/1 | 1/1 | 10.45 | 10.39 |
| 1/1 | 0/1 | 6.97 | 4 |
| 1/1 | 1/1 | 8.76 | 6.19 |
| 1/1 | 1/1 | 6.3 | 5.78 |
| 1/1 | 1/1 | 8.43 | 8.03 |
| 1/1 | 1/1 | 6.38 | 5.98 |
| 1/1 | 1/1 | 7.99 | 7.63 |
| 1/1 | 1/1 | 8.6 | 8.33 |
| 1/1 | 1/1 | 7.29 | 7.19 |
| 0/1 | 1/1 | 5.88 | 5.81 |
| 0/1 | 1/1 | 6.47 | 6.6 |
| 1/1 | 1/1 | 5.67 | 4.67 |
| 1/1 | 0/1 | 4.48 | 3.55 |
| 1/1 | 1/1 | 5.76 | 5.02 |
| 1/1 | 0/1 | 7.86 | 6.94 |
| 1/1 | 1/1 | 7.9 | 7.1 |
| 1/1 | 1/1 | 6.37 | 5.84 |
| 1/1 | 1/1 | 8.72 | 8.22 |
| 1/1 | 1/1 | 5.6 | 7.32 |
| 1/1 | 1/1 | 6.38 | 5.79 |
| 1/1 | 1/1 | 6.05 | 5.51 |
| 1/1 | 1/1 | 7.24 | 6.8 |
| 1/1 | 1/1 | 7.17 | 6.94 |
| 1/1 | 1/1 | 5.41 | 5.22 |
| 1/1 | 1/1 | 6.67 | 6.52 |
| 1/1 | 1/1 | 5.27 | 7.18 |
| 1/1 | 1/1 | 8.18 | 4.73 |
| 1/1 | 1/1 | 8.74 | 5.6 |
| 1/1 | 1/1 | 5.92 | 4.97 |
| 1/1 | 1/1 | 6.45 | 5.64 |
| 1/1 | 1/1 | 4.18 | 3.39 |
| 1/1 | 1/1 | 5.72 | 4.95 |
| 1/1 | 1/1 | 6.12 | 5.45 |
| 1/1 | 1/1 | 6.41 | 5.77 |
| 1/1 | 1/1 | 6.15 | 5.5 |
| 1/1 | 1/1 | 7.13 | 6.49 |
| 1/1 | 1/1 | 7.56 | 7.12 |
| 1/1 | 1/1 | 6.08 | 5.69 |
| 1/1 | 1/1 | 3.12 | 3.11 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.15 | 4.27 |
| 0/1 | 1/1 | 5 | 5.16 |
| 0/1 | 1/1 | 3.14 | 3.47 |
| 1/1 | 1/1 | 6.42 | 6.78 |
| 0/1 | 1/1 | 3.29 | 4.22 |
| 1/1 | 1/1 | 4.09 | 2.99 |
| 0/1 | 1/1 | 4.11 | 5.46 |
| 0/1 | 1/1 | 3.56 | 5.03 |
| 1/1 | 1/1 | 2.76 | 4.59 |
| 1/1 | 1/1 | 6.26 | 5.41 |
| 1/1 | 1/1 | 3.49 | 6.48 |
| 1/1 | 1/1 | 10.71 | 10.03 |
| 0/1 | 1/1 | 7.67 | 7.1 |
| 1/1 | 1/1 | 3.77 | 3.2 |
| 1/1 | 1/1 | 10.7 | 10.2 |
| 0/1 | 1/1 | 4.19 | 6.1 |
| 1/1 | 1/1 | 8.29 | 7.58 |
| 1/1 | 1/1 | 7.72 | 7.18 |
| 1/1 | 1/1 | 10.97 | 9.99 |
| 1/1 | 1/1 | 3.72 | 3.05 |
| 1/1 | 1/1 | 4.53 | 6 |
| 1/1 | 1/1 | 4.26 | 6.19 |
| 0/1 | 1/1 | 2.41 | 4.69 |
| 1/1 | 1/1 | 5.89 | 4.96 |
| 1/1 | 0/1 | 2.78 | 2.11 |
| 1/1 | 1/1 | 3.46 | 5.79 |
| 1/1 | 1/1 | 5.66 | 5.28 |
| 0/1 | 1/1 | 7.95 | 7.7 |
| 1/1 | 1/1 | 8.84 | 8.72 |
| 1/1 | 1/1 | 7.92 | 7.92 |
| 1/1 | 0/1 | 4.47 | 2.85 |
| 1/1 | 1/1 | 8.43 | 9.35 |
| 0/1 | 1/1 | 3.43 | 4.44 |
| 1/1 | 1/1 | 6.55 | 5.35 |
| 1/1 | 1/1 | 7.56 | 6.53 |
| 0/1 | 1/1 | 5.4 | 6.68 |
| 1/1 | 1/1 | 6.11 | 7.58 |
| 1/1 | 0/1 | 8.43 | 7.21 |
| 1/1 | 1/1 | 5.58 | 6.8 |
| 1/1 | 0/1 | 6.67 | 4.59 |
| 1/1 | 1/1 | 8.48 | 6.63 |
| 1/1 | 0/1 | 7.37 | 5.58 |
| 1/1 | 1/1 | 6.4 | 4.73 |
| 1/1 | 1/1 | 6.15 | 4.49 |
| 0/1 | 1/1 | 4.46 | 5.27 |
| 0/1 | 1/1 | 4.54 | 5.46 |
| 0/1 | 1/1 | 3.87 | 5.06 |
| 1/1 | 1/1 | 7.92 | 7.56 |
| 1/1 | 1/1 | 11.71 | 11.37 |
| 1/1 | 1/1 | 6.86 | 6.64 |
| 1/1 | 1/1 | 4.77 | 4.74 |
| 0/1 | 1/1 | 4.71 | 4.73 |
| 1/1 | 0/1 | 4.56 | 3.35 |
| 1/1 | 1/1 | 8.31 | 7.45 |
| 0/1 | 1/1 | 3 | 4.31 |
| 0/1 | 1/1 | 2.35 | 3.91 |
| 1/1 | 1/1 | 10.2 | 9.06 |
| 0/1 | 1/1 | 3.51 | 5.31 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.68 | 4.59 |
| 1/1 | 1/1 | 4.98 | 6.95 |
| 1/1 | 1/1 | 5.85 | 7.82 |
| 1/1 | 1/1 | 5.85 | 7.82 |
| 1/1 | 1/1 | 5.07 | 7.07 |
| 1/1 | 1/1 | 5.07 | 4.05 |
| 1/1 | 1/1 | 8.17 | 7.38 |
| 1/1 | 1/1 | 7.06 | 6.43 |
| 0/1 | 1/1 | 1.63 | 3.13 |
| 1/1 | 1/1 | 3.9 | 5.42 |
| 0/1 | 1/1 | 3.07 | 6.36 |
| 1/1 | 1/1 | 5.05 | 3.86 |
| 1/1 | 1/1 | 7.4 | 6.48 |
| 1/1 | 1/1 | 7.01 | 6.15 |
| 1/1 | 1/1 | 6.1 | 5.24 |
| 0/1 | 1/1 | 3.34 | 5.44 |
| 1/1 | 1/1 | 6.76 | 6.12 |
| 1/1 | 1/1 | 5.06 | 4.71 |
| 1/1 | 1/1 | 6.9 | 6.63 |
| 1/1 | 1/1 | 6.01 | 5.78 |
| 1/1 | 1/1 | 8.77 | 8.47 |
| 1/1 | 1/1 | 7.95 | 7.76 |
| 0/1 | 1/1 | 4.34 | 7.29 |
| 1/1 | 1/1 | 4.67 | 7.64 |
| 1/1 | 1/1 | 4.56 | 3.29 |
| 1/1 | 0/1 | 3.61 | 2.35 |
| 1/1 | 1/1 | 6.3 | 5.14 |
| 1/1 | 1/1 | 6.2 | 5.27 |
| 1/1 | 1/1 | 5.06 | 4.19 |
| 1/1 | 1/1 | 4.42 | 3.57 |
| 1/1 | 1/1 | 7.04 | 6.69 |
| 1/1 | 1/1 | 7.12 | 6.84 |
| 1/1 | 1/1 | 4 | 3.81 |
| 1/1 | 1/1 | 7.39 | 7.34 |
| 1/1 | 1/1 | 6.55 | 6.57 |
| 1/1 | 1/1 | 6.1 | 4.99 |
| 0/1 | 1/1 | 4.89 | 6.23 |
| 1/1 | 1/1 | 5.5 | 5.06 |
| 1/1 | 1/1 | 7.65 | 7.24 |
| 1/1 | 1/1 | 10.62 | 10.34 |
| 1/1 | 1/1 | 7.31 | 7.06 |
| 1/1 | 1/1 | 9.78 | 9.64 |
| 0/1 | 1/1 | 3.61 | 6.06 |
| 0/1 | 1/1 | 2.94 | 5.41 |
| 1/1 | 1/1 | 3.61 | 6.38 |
| 1/1 | 1/1 | 5.49 | 8.3 |
| 0/1 | 1/1 | 2.78 | 6.27 |
| 1/1 | 1/1 | 6.61 | 4.87 |
| 1/1 | 1/1 | 6.44 | 4.93 |
| 0/1 | 1/1 | 2.77 | 3.46 |
| 1/1 | 1/1 | 3.01 | 3.72 |
| 1/1 | 1/1 | 3.27 | 3.98 |
| 1/1 | 1/1 | 2.53 | 3.3 |
| 1/1 | 1/1 | 6.31 | 7.11 |
| 1/1 | 1/1 | 5.11 | 5.91 |
| 1/1 | 1/1 | 5.68 | 6.54 |
| 1/1 | 1/1 | 4.61 | 5.73 |
| 1/1 | 1/1 | 3.94 | 5.07 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.13 | 5.31 |
| 0/1 | 1/1 | 1.98 | 3.91 |
| 1/1 | 1/1 | 4.9 | 3.78 |
| 1/1 | 1/1 | 5.5 | 4.41 |
| 1/1 | 1/1 | 6.52 | 5.56 |
| 1/1 | 0/1 | 5.76 | 2.54 |
| 1/1 | 1/1 | 3.3 | 2.55 |
| 1/1 | 1/1 | 5.24 | 4.61 |
| 1/1 | 1/1 | 6.24 | 5.62 |
| 1/1 | 1/1 | 5.14 | 4.55 |
| 1/1 | 1/1 | 6.53 | 6 |
| 1/1 | 0/1 | 4.8 | 4.27 |
| 1/1 | 1/1 | 5.6 | 5.15 |
| 0/1 | 1/1 | 6.66 | 6.28 |
| 1/1 | 0/1 | 2.49 | 2.18 |
| 0/1 | 1/1 | 3.77 | 3.58 |
| 1/1 | 1/1 | 10.16 | 10.06 |
| 0/1 | 1/1 | 5.48 | 5.46 |
| 1/1 | 0/1 | 3.4 | 3.41 |
| 1/1 | 1/1 | 11.11 | 11.2 |
| 1/1 | 1/1 | 7.05 | 7.38 |
| 0/1 | 1/1 | 3.84 | 4.32 |
| 1/1 | 1/1 | 6.32 | 6.9 |
| 0/1 | 1/1 | 4.08 | 5.09 |
| 1/1 | 1/1 | 5.02 | 4 |
| 1/1 | 0/1 | 3.2 | 2.6 |
| 1/1 | 1/1 | 3.9 | 5.39 |
| 0/1 | 1/1 | 2.09 | 4.29 |
| 1/1 | 1/1 | 6.55 | 5.95 |
| 1/1 | 1/1 | 6.59 | 6.18 |
| 1/1 | 1/1 | 4.96 | 4.63 |
| 1/1 | 1/1 | 7.57 | 7.31 |
| 1/1 | 1/1 | 2.6 | 4.47 |
| 0/1 | 1/1 | 5.68 | 7.67 |
| 1/1 | 1/1 | 9.62 | 8.61 |
| 1/1 | 1/1 | 5.45 | 4.72 |
| 1/1 | 1/1 | 6.92 | 6.3 |
| 1/1 | 1/1 | 6.15 | 7.62 |
| 1/1 | 1/1 | 3.3 | 4.97 |
| 1/1 | 0/1 | 6.11 | 5.85 |
| 1/1 | 1/1 | 6.57 | 6.52 |
| 1/1 | 1/1 | 6.34 | 6.43 |
| 0/1 | 1/1 | 1.88 | 4.66 |
| 1/1 | 1/1 | 6.4 | 4.51 |
| 1/1 | 1/1 | 6.46 | 7.21 |
| 1/1 | 1/1 | 8.79 | 10.64 |
| 1/1 | 1/1 | 5.55 | 4.41 |
| 1/1 | 1/1 | 3.09 | 2.28 |
| 1/1 | 1/1 | 9.81 | 9.06 |
| 0/1 | 1/1 | 3.7 | 5.09 |
| 0/1 | 1/1 | 4.49 | 6.06 |
| 1/1 | 1/1 | 4.64 | 6.41 |
| 0/1 | 1/1 | 3.31 | 5.22 |
| 1/1 | 1/1 | 8.88 | 7.07 |
| 1/1 | 1/1 | 5.88 | 6.51 |
| 1/1 | 0/1 | 4.56 | 3 |
| 1/1 | 1/1 | 7.5 | 5.97 |
| 1/1 | 1/1 | 9.87 | 8.51 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.81 | 10.68 |
| 1/1 | 1/1 | 7.86 | 7.47 |
| 1/1 | 1/1 | 6.8 | 6.43 |
| 1/1 | 1/1 | 7.34 | 7.1 |
| 1/1 | 1/1 | 6.23 | 6.07 |
| 1/1 | 1/1 | 6.74 | 6.68 |
| 0/1 | 1/1 | 7.62 | 7.59 |
| 1/1 | 1/1 | 5.51 | 7.6 |
| 0/1 | 1/1 | 3.19 | 5.34 |
| 1/1 | 1/1 | 5.6 | 7.81 |
| 1/1 | 1/1 | 6.07 | 8.41 |
| 1/1 | 1/1 | 4.21 | 6.62 |
| 1/1 | 1/1 | 3.77 | 6.19 |
| 1/1 | 1/1 | 5.03 | 7.64 |
| 1/1 | 1/1 | 5.13 | 8.13 |
| 1/1 | 0/1 | 3.54 | 2.45 |
| 1/1 | 0/1 | 3.91 | 3.17 |
| 1/1 | 1/1 | 3.13 | 4.65 |
| 1/1 | 1/1 | 6.5 | 5.67 |
| 1/1 | 1/1 | 6.27 | 5.64 |
| 1/1 | 1/1 | 4.77 | 4.15 |
| 1/1 | 1/1 | 5.09 | 7.74 |
| 1/1 | 0/1 | 4.4 | 2.7 |
| 1/1 | 1/1 | 3.96 | 4.89 |
| 1/1 | 1/1 | 9.77 | 8.79 |
| 1/1 | 1/1 | 6.61 | 5.84 |
| 1/1 | 1/1 | 7.8 | 7.1 |
| 1/1 | 1/1 | 7.07 | 6.47 |
| 1/1 | 1/1 | 6.41 | 7.87 |
| 0/1 | 1/1 | 5.08 | 6.85 |
| 1/1 | 1/1 | 6.44 | 8.23 |
| 1/1 | 1/1 | 4.27 | 6.09 |
| 1/1 | 1/1 | 5.53 | 7.35 |
| 1/1 | 1/1 | 5.63 | 7.45 |
| 1/1 | 1/1 | 5.99 | 7.97 |
| 0/1 | 1/1 | 3.75 | 5.8 |
| 0/1 | 1/1 | 3.62 | 5.79 |
| 1/1 | 1/1 | 5.15 | 7.43 |
| 1/1 | 1/1 | 5.37 | 7.71 |
| 0/1 | 1/1 | 2.67 | 5.68 |
| 1/1 | 1/1 | 7.22 | 7.01 |
| 0/1 | 1/1 | 3.17 | 2.97 |
| 0/1 | 1/1 | 3.98 | 3.83 |
| 1/1 | 1/1 | 5.1 | 5.01 |
| 1/1 | 1/1 | 6.6 | 6.55 |
| 1/1 | 1/1 | 11.67 | 11.66 |
| 1/1 | 1/1 | 8.5 | 8.51 |
| 1/1 | 1/1 | 9.77 | 9.8 |
| 1/1 | 1/1 | 8.2 | 8.38 |
| 1/1 | 1/1 | 4.86 | 4.09 |
| 1/1 | 1/1 | 6.01 | 5.56 |
| 1/1 | 1/1 | 6.18 | 5.76 |
| 1/1 | 1/1 | 5.46 | 3.73 |
| 1/1 | 1/1 | 4.27 | 5.14 |
| 0/1 | 1/1 | 3.39 | 4.54 |
| 0/1 | 1/1 | 3.73 | 5.14 |
| 0/1 | 1/1 | 4.45 | 6.05 |
| 1/1 | 0/1 | 3.4 | 2.2 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.95 | 5.28 |
| 1/1 | 1/1 | 5.87 | 4.3 |
| 1/1 | 1/1 | 5.98 | 4.47 |
| 1/1 | 1/1 | 8.65 | 9.87 |
| 1/1 | 1/1 | 7.45 | 8.96 |
| 1/1 | 1/1 | 7.74 | 9.78 |
| 1/1 | 0/1 | 8.01 | 6.32 |
| 1/1 | 0/1 | 6.05 | 4.53 |
| 1/1 | 0/1 | 10.45 | 9.13 |
| 0/1 | 1/1 | 4.37 | 5.34 |
| 0/1 | 1/1 | 5.13 | 6.12 |
| 1/1 | 1/1 | 5.13 | 3.31 |
| 1/1 | 1/1 | 4.24 | 4.91 |
| 0/1 | 1/1 | 3.45 | 4.35 |
| 1/1 | 1/1 | 10.17 | 8.63 |
| 1/1 | 1/1 | 10.47 | 9.02 |
| 1/1 | 1/1 | 5.1 | 3.86 |
| 1/1 | 1/1 | 8.93 | 8.06 |
| 1/1 | 1/1 | 8.64 | 8.05 |
| 1/1 | 1/1 | 3.9 | 5.48 |
| 1/1 | 1/1 | 6.56 | 5.66 |
| 1/1 | 1/1 | 9.54 | 8.84 |
| 1/1 | 0/1 | 4.38 | 3.72 |
| 1/1 | 1/1 | 4.7 | 4.1 |
| 0/1 | 1/1 | 3.22 | 4.78 |
| 1/1 | 1/1 | 4.47 | 6.35 |
| 0/1 | 1/1 | 2.38 | 4.55 |
| 1/1 | 1/1 | 8.43 | 7.55 |
| 1/1 | 0/1 | 5.66 | 5.17 |
| 1/1 | 1/1 | 6.19 | 7.76 |
| 0/1 | 1/1 | 3.65 | 5.52 |
| 1/1 | 1/1 | 7.39 | 6.39 |
| 1/1 | 1/1 | 5.04 | 6.57 |
| 0/1 | 1/1 | 3.88 | 5.74 |
| 0/1 | 1/1 | 5.43 | 7.47 |
| 1/1 | 1/1 | 5.79 | 4.23 |
| 1/1 | 1/1 | 5.22 | 3.96 |
| 1/1 | 1/1 | 8.09 | 6.92 |
| 1/1 | 1/1 | 3.72 | 5.04 |
| 1/1 | 1/1 | 8.49 | 8.08 |
| 1/1 | 1/1 | 8.03 | 7.71 |
| 1/1 | 1/1 | 3.36 | 3.04 |
| 1/1 | 1/1 | 5.31 | 5.09 |
| 1/1 | 1/1 | 7.62 | 7.41 |
| 1/1 | 1/1 | 7.7 | 7.51 |
| 1/1 | 1/1 | 6.07 | 5.91 |
| 1/1 | 1/1 | 4.86 | 4.79 |
| 1/1 | 1/1 | 4.7 | 6.78 |
| 1/1 | 1/1 | 3.65 | 6.02 |
| 1/1 | 1/1 | 5 | 3.66 |
| 1/1 | 1/1 | 5.71 | 4.52 |
| 1/1 | 1/1 | 5.89 | 4.78 |
| 1/1 | 1/1 | 8.88 | 7.64 |
| 1/1 | 1/1 | 10.32 | 9.18 |
| 1/1 | 1/1 | 5.75 | 7.04 |
| 0/1 | 1/1 | 3.84 | 5.32 |
| 1/1 | 1/1 | 6.35 | 4.47 |
| 0/1 | 1/1 | 3.84 | 4.45 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.4 | 3.62 |
| 1/1 | 1/1 | 9.67 | 8.57 |
| 1/1 | 1/1 | 7.83 | 7.11 |
| 1/1 | 1/1 | 6.42 | 5.92 |
| 1/1 | 1/1 | 9.55 | 9.08 |
| 0/1 | 1/1 | 4.06 | 3.64 |
| 1/1 | 1/1 | 7.2 | 7.07 |
| 1/1 | 1/1 | 5.35 | 5.27 |
| 0/1 | 1/1 | 5.9 | 8.2 |
| 1/1 | 1/1 | 6.28 | 8.64 |
| 1/1 | 1/1 | 3.12 | 6.08 |
| 1/1 | 1/1 | 5.62 | 3.89 |
| 1/1 | 1/1 | 7.25 | 5.55 |
| 0/1 | 1/1 | 3.97 | 4.87 |
| 1/1 | 0/1 | 3.62 | 2.42 |
| 1/1 | 0/1 | 3.3 | 2.4 |
| 1/1 | 1/1 | 5.17 | 4.29 |
| 1/1 | 1/1 | 5.26 | 4.44 |
| 1/1 | 1/1 | 6.59 | 5.8 |
| 1/1 | 1/1 | 5.47 | 6.79 |
| 1/1 | 1/1 | 4.34 | 5.72 |
| 1/1 | 0/1 | 5.62 | 4.14 |
| 0/1 | 1/1 | 2.32 | 3.31 |
| 1/1 | 0/1 | 5.43 | 3.95 |
| 1/1 | 1/1 | 3.82 | 4.8 |
| 0/1 | 1/1 | 4.01 | 5.23 |
| 1/1 | 0/1 | 4 | 2.24 |
| 1/1 | 1/1 | 5.23 | 6 |
| 1/1 | 1/1 | 2.1 | 2.95 |
| 0/1 | 1/1 | 3.12 | 4 |
| 0/1 | 1/1 | 2.9 | 4.06 |
| 1/1 | 1/1 | 5.13 | 4.52 |
| 1/1 | 1/1 | 3.47 | 3.24 |
| 0/1 | 1/1 | 2.23 | 4.12 |
| 1/1 | 1/1 | 4.1 | 6.08 |
| 0/1 | 1/1 | 3.54 | 5.56 |
| 1/1 | 1/1 | 3.64 | 5.68 |
| 1/1 | 1/1 | 5.04 | 7.15 |
| 1/1 | 1/1 | 4.05 | 3.22 |
| 1/1 | 0/1 | 5.02 | 4.25 |
| 1/1 | 1/1 | 6.37 | 5.64 |
| 1/1 | 1/1 | 5.07 | 4.39 |
| 1/1 | 1/1 | 6.06 | 5.46 |
| 1/1 | 1/1 | 4.38 | 3.84 |
| 1/1 | 1/1 | 6.06 | 5.52 |
| 1/1 | 1/1 | 8.43 | 7.93 |
| 1/1 | 1/1 | 4.41 | 6.21 |
| 1/1 | 1/1 | 11.39 | 10.86 |
| 1/1 | 1/1 | 6.58 | 6.15 |
| 0/1 | 1/1 | 6.53 | 6.34 |
| 1/1 | 1/1 | 8.84 | 7.89 |
| 1/1 | 1/1 | 7.61 | 7.03 |
| 1/1 | 1/1 | 8.22 | 7.56 |
| 1/1 | 1/1 | 10.45 | 10.11 |
| 1/1 | 1/1 | 10.94 | 10.62 |
| 1/1 | 1/1 | 7.63 | 7.39 |
| 1/1 | 1/1 | 6.21 | 4.83 |
| 1/1 | 1/1 | 3.47 | 4.54 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 2.87 | 4.14 |
| 0/1 | 1/1 | 2.27 | 4.14 |
| 1/1 | 0/1 | 3.69 | 2.44 |
| 1/1 | 0/1 | 3.72 | 2.56 |
| 1/1 | 1/1 | 4.01 | 2.95 |
| 0/1 | 1/1 | 4.56 | 4.27 |
| 1/1 | 1/1 | 5.84 | 5.66 |
| 0/1 | 1/1 | 5.07 | 5.13 |
| 1/1 | 1/1 | 3.44 | 5.6 |
| 1/1 | 1/1 | 7.86 | 7.17 |
| 0/1 | 1/1 | 4.61 | 6.85 |
| 1/1 | 1/1 | 8.33 | 7.17 |
| 1/1 | 1/1 | 4.08 | 5.58 |
| 1/1 | 1/1 | 9.38 | 9.12 |
| 0/1 | 1/1 | 2.93 | 2.68 |
| 1/1 | 1/1 | 3.38 | 3.35 |
| 0/1 | 1/1 | 2.74 | 2.72 |
| 1/1 | 1/1 | 7.06 | 7.09 |
| 1/1 | 1/1 | 3.45 | 3.52 |
| 1/1 | 1/1 | 6.65 | 5.95 |
| 1/1 | 1/1 | 8.03 | 7.66 |
| 1/1 | 1/1 | 4.12 | 3.46 |
| 1/1 | 1/1 | 4.28 | 3.64 |
| 1/1 | 1/1 | 3.85 | 3.46 |
| 1/1 | 1/1 | 4.2 | 3.85 |
| 0/1 | 1/1 | 3.94 | 6.51 |
| 0/1 | 1/1 | 5.54 | 4.99 |
| 1/1 | 1/1 | 6.25 | 5.93 |
| 1/1 | 1/1 | 4.65 | 4.39 |
| 1/1 | 1/1 | 10.02 | 9.78 |
| 1/1 | 1/1 | 7.94 | 7.71 |
| 1/1 | 1/1 | 5.22 | 4.99 |
| 1/1 | 1/1 | 6.33 | 6.11 |
| 1/1 | 1/1 | 5.69 | 5.53 |
| 1/1 | 1/1 | 5.1 | 4.96 |
| 0/1 | 1/1 | 2.99 | 5.04 |
| 0/1 | 1/1 | 2.35 | 5.63 |
| 1/1 | 1/1 | 7.31 | 5.41 |
| 1/1 | 1/1 | 4.77 | 5.36 |
| 1/1 | 1/1 | 5.35 | 6.46 |
| 1/1 | 0/1 | 4.31 | 2.27 |
| 1/1 | 1/1 | 5.22 | 3.38 |
| 1/1 | 1/1 | 4.39 | 5.24 |
| 1/1 | 1/1 | 2.96 | 3.83 |
| 1/1 | 1/1 | 9.97 | 9.03 |
| 0/1 | 1/1 | 4.96 | 4.22 |
| 1/1 | 1/1 | 5.08 | 4.46 |
| 1/1 | 1/1 | 6.24 | 5.7 |
| 1/1 | 0/1 | 6.16 | 2.39 |
| 1/1 | 0/1 | 6.19 | 2.81 |
| 1/1 | 1/1 | 4.75 | 3.81 |
| 1/1 | 0/1 | 3.96 | 3.25 |
| 1/1 | 1/1 | 4.29 | 3.83 |
| 1/1 | 1/1 | 8.33 | 7.95 |
| 1/1 | 1/1 | 3.46 | 3.18 |
| 1/1 | 1/1 | 7.17 | 6.95 |
| 0/1 | 1/1 | 5.26 | 5.04 |
| 1/1 | 1/1 | 4.01 | 3.88 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.77 | 2.75 |
| 1/1 | 1/1 | 4.95 | 4.95 |
| 1/1 | 1/1 | 4.45 | 3.92 |
| 1/1 | 1/1 | 5.27 | 4.82 |
| 1/1 | 0/1 | 3.96 | 3.56 |
| 1/1 | 1/1 | 6.45 | 6.21 |
| 1/1 | 1/1 | 5.81 | 5.6 |
| 1/1 | 1/1 | 12.11 | 11.93 |
| 1/1 | 1/1 | 5.05 | 6.93 |
| 1/1 | 1/1 | 5.5 | 7.52 |
| 0/1 | 1/1 | 2.4 | 4.71 |
| 0/1 | 1/1 | 2.58 | 4.95 |
| 1/1 | 0/1 | 6.25 | 3.26 |
| 1/1 | 0/1 | 5.1 | 2.3 |
| 1/1 | 1/1 | 6.24 | 3.61 |
| 1/1 | 1/1 | 9.06 | 8.53 |
| 1/1 | 0/1 | 3.39 | 2.9 |
| 1/1 | 1/1 | 7.31 | 6.92 |
| 0/1 | 1/1 | 3.22 | 3.2 |
| 0/1 | 1/1 | 2.96 | 2.97 |
| 1/1 | 1/1 | 8.64 | 8.67 |
| 1/1 | 1/1 | 3.23 | 3.4 |
| 1/1 | 1/1 | 10.19 | 10.39 |
| 1/1 | 1/1 | 6.6 | 5.4 |
| 1/1 | 1/1 | 5.03 | 3.84 |
| 1/1 | 1/1 | 6.8 | 5.88 |
| 1/1 | 1/1 | 5.95 | 5.05 |
| 1/1 | 1/1 | 4.07 | 3.24 |
| 1/1 | 1/1 | 6.64 | 5.57 |
| 1/1 | 1/1 | 5.57 | 4.76 |
| 1/1 | 1/1 | 2.51 | 4.37 |
| 1/1 | 1/1 | 7.3 | 6.22 |
| 1/1 | 1/1 | 5.55 | 4.77 |
| 1/1 | 1/1 | 5.88 | 5.15 |
| 1/1 | 0/1 | 5.03 | 3.41 |
| 1/1 | 1/1 | 6.58 | 7.4 |
| 1/1 | 1/1 | 3.54 | 2.67 |
| 1/1 | 0/1 | 4.04 | 3.43 |
| 1/1 | 1/1 | 3.91 | 6.09 |
| 1/1 | 1/1 | 6.06 | 5.25 |
| 1/1 | 1/1 | 11.28 | 10.77 |
| 0/1 | 1/1 | 2.64 | 2.3 |
| 1/1 | 1/1 | 10.77 | 10.55 |
| 1/1 | 1/1 | 9.38 | 9.19 |
| 1/1 | 1/1 | 6.94 | 6.75 |
| 1/1 | 1/1 | 3.89 | 3.74 |
| 1/1 | 1/1 | 2.74 | 4.79 |
| 0/1 | 1/1 | 5.22 | 5.12 |
| 1/1 | 1/1 | 8.9 | 8.82 |
| 1/1 | 1/1 | 12.1 | 12.15 |
| 1/1 | 1/1 | 12.09 | 12.16 |
| 1/1 | 1/1 | 11.16 | 11.27 |
| 1/1 | 1/1 | 6.47 | 6.59 |
| 1/1 | 1/1 | 11.15 | 11.36 |
| 1/1 | 1/1 | 8.09 | 8.34 |
| 1/1 | 1/1 | 7.46 | 9.77 |
| 1/1 | 1/1 | 10.41 | 10.31 |
| 1/1 | 1/1 | 3.04 | 3.05 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.62 | 3.79 |
| 1/1 | 1/1 | 6.28 | 6.5 |
| 0/1 | 1/1 | 2.31 | 4.97 |
| 1/1 | 0/1 | 6.02 | 4.71 |
| 1/1 | 1/1 | 7.94 | 6.94 |
| 0/1 | 1/1 | 2.52 | 4.05 |
| 1/1 | 1/1 | 4.27 | 4.05 |
| 1/1 | 1/1 | 6.25 | 6.08 |
| 1/1 | 1/1 | 7.69 | 7.7 |
| 0/1 | 1/1 | 4.62 | 4.73 |
| 1/1 | 1/1 | 6.56 | 6.71 |
| 1/1 | 1/1 | 5.58 | 5.75 |
| 1/1 | 1/1 | 10.06 | 12.42 |
| 0/1 | 1/1 | 4.48 | 7.07 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 6.61 | 10.13 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 5.41 | 5.01 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.15 | 2.81 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 0/1 | 1/1 | 3.54 | 5.44 |
| 0/1 | 1/1 | 2.96 | 4.95 |
| 1/1 | 1/1 | 3.2 | 5.25 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 4.27 | 4.05 |
| 1/1 | 1/1 | 6.25 | 6.08 |
| 1/1 | 1/1 | 7.69 | 7.7 |
| 0/1 | 1/1 | 4.62 | 4.73 |
| 1/1 | 1/1 | 6.56 | 6.71 |
| 1/1 | 1/1 | 5.58 | 5.75 |
| 1/1 | 1/1 | 10.06 | 12.42 |
| 0/1 | 1/1 | 4.48 | 7.07 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 6.61 | 10.13 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 5.41 | 5.01 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.15 | 2.81 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 0/1 | 1/1 | 3.54 | 5.44 |
| 0/1 | 1/1 | 2.96 | 4.95 |
| 1/1 | 1/1 | 3.2 | 5.25 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 5.41 | 5.01 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.15 | 2.81 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 0/1 | 1/1 | 3.54 | 5.44 |
| 0/1 | 1/1 | 2.96 | 4.95 |
| 1/1 | 1/1 | 3.2 | 5.25 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 6.1 | 5.62 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.42 | 3.06 |
| 1/1 | 1/1 | 6.78 | 6.6 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 3.54 | 5.44 |
| 1/1 | 1/1 | 3.2 | 5.25 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.15 | 2.81 |
| 1/1 | 1/1 | 3.29 | 3.04 |
| 1/1 | 1/1 | 4.42 | 4.17 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 0/1 | 1/1 | 3.54 | 5.44 |
| 1/1 | 1/1 | 3.2 | 5.25 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 8.68 | 7.63 |
| 1/1 | 1/1 | 7.23 | 6.5 |
| 1/1 | 1/1 | 6.42 | 5.78 |
| 1/1 | 1/1 | 5.96 | 7.47 |
| 0/1 | 1/1 | 5.6 | 7.13 |
| 1/1 | 1/1 | 4.78 | 6.58 |
| 1/1 | 1/1 | 5.19 | 4.84 |
| 1/1 | 1/1 | 5.6 | 5.58 |
| 1/1 | 1/1 | 5.41 | 5.46 |
| 0/1 | 1/1 | 3.86 | 5.95 |
| 1/1 | 1/1 | 4.48 | 3.89 |
| 1/1 | 1/1 | 5.7 | 5.33 |
| 1/1 | 1/1 | 4.99 | 4.67 |
| 1/1 | 1/1 | 3.41 | 3.12 |
| 1/1 | 1/1 | 4.68 | 4.44 |
| 1/1 | 0/1 | 4.46 | 2.2 |
| 1/1 | 1/1 | 3.1 | 3.38 |
| 1/1 | 1/1 | 7.54 | 6.73 |
| 1/1 | 0/1 | 3.37 | 2.7 |
| 1/1 | 1/1 | 5.18 | 4.7 |
| 1/1 | 1/1 | 6.34 | 5.88 |
| 0/1 | 1/1 | 3.16 | 5.4 |
| 1/1 | 0/1 | 4.58 | 1.99 |
| 1/1 | 1/1 | 4.86 | 4.73 |
| 1/1 | 1/1 | 3.89 | 3.81 |
| 1/1 | 1/1 | 9.1 | 9.12 |
| 0/1 | 1/1 | 4.33 | 4.46 |
| 1/1 | 1/1 | 3.76 | 3.97 |
| 0/1 | 1/1 | 2.16 | 2.44 |
| 1/1 | 1/1 | 5.38 | 5.68 |
| 1/1 | 1/1 | 4.48 | 5.22 |
| 0/1 | 1/1 | 4.51 | 5.37 |
| 0/1 | 1/1 | 2.35 | 2.43 |
| 0/1 | 1/1 | 2.89 | 6.51 |
| 1/1 | 1/1 | 8.43 | 7.91 |
| 0/1 | 1/1 | 4.1 | 6.52 |
| 0/1 | 1/1 | 5.74 | 5.18 |
| 1/1 | 1/1 | 6.92 | 6.73 |
| 1/1 | 1/1 | 8.22 | 6.89 |
| 0/1 | 1/1 | 4.4 | 5.69 |
| 0/1 | 1/1 | 3.6 | 4.91 |
| 0/1 | 1/1 | 4.14 | 5.46 |
| 0/1 | 1/1 | 4.49 | 5.86 |
| 0/1 | 1/1 | 4.2 | 5.75 |
| 0/1 | 1/1 | 3.81 | 5.54 |
| 1/1 | 1/1 | 4.17 | 3.73 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.77 | 5.45 |
| 1/1 | 1/1 | 6.05 | 5.89 |
| 1/1 | 1/1 | 6.97 | 6.91 |
| 1/1 | 1/1 | 3.61 | 5.68 |
| 1/1 | 1/1 | 5.18 | 4.35 |
| 1/1 | 0/1 | 6.83 | 6.11 |
| 1/1 | 1/1 | 4.22 | 3.74 |
| 0/1 | 1/1 | 2.4 | 4.07 |
| 1/1 | 1/1 | 6.49 | 5.53 |
| 1/1 | 1/1 | 5.22 | 4.45 |
| 1/1 | 0/1 | 5.18 | 4.48 |
| 1/1 | 0/1 | 6.06 | 5.45 |
| 1/1 | 1/1 | 3.1 | 3.22 |
| 0/1 | 1/1 | 5.83 | 6.24 |
| 1/1 | 1/1 | 9.25 | 7.84 |
| 1/1 | 1/1 | 4.31 | 5.31 |
| 1/1 | 1/1 | 4.95 | 6.19 |
| 1/1 | 1/1 | 9.45 | 8.83 |
| 1/1 | 1/1 | 4.66 | 4.03 |
| 1/1 | 1/1 | 4.42 | 3.92 |
| 1/1 | 1/1 | 4.56 | 4.08 |
| 1/1 | 1/1 | 8.41 | 8.07 |
| 1/1 | 1/1 | 3.28 | 3 |
| 1/1 | 1/1 | 5.88 | 5.6 |
| 1/1 | 1/1 | 11.1 | 10.88 |
| 1/1 | 1/1 | 3.66 | 6.03 |
| 1/1 | 1/1 | 4.56 | 3.88 |
| 1/1 | 1/1 | 8.62 | 8.02 |
| 1/1 | 1/1 | 10.07 | 9.51 |
| 1/1 | 0/1 | 3.76 | 3.21 |
| 1/1 | 1/1 | 5.59 | 5.27 |
| 1/1 | 1/1 | 6.04 | 5.75 |
| 1/1 | 1/1 | 6.09 | 5.79 |
| 1/1 | 1/1 | 5.46 | 5.18 |
| 0/1 | 1/1 | 4.03 | 5.87 |
| 1/1 | 1/1 | 4.74 | 6.75 |
| 0/1 | 1/1 | 3.08 | 5.24 |
| 1/1 | 1/1 | 4.94 | 4.36 |
| 1/1 | 1/1 | 5.41 | 5.01 |
| 1/1 | 1/1 | 5.66 | 5.31 |
| 1/1 | 1/1 | 3.15 | 2.81 |
| 1/1 | 1/1 | 6.78 | 6.6 |
| 0/1 | 1/1 | 3.54 | 5.44 |
| 0/1 | 1/1 | 2.96 | 4.95 |
| 1/1 | 1/1 | 3.2 | 5.25 |
| 0/1 | 1/1 | 2.13 | 4.85 |
| 1/1 | 1/1 | 8.38 | 7.34 |
| 1/1 | 1/1 | 6.69 | 5.72 |
| 1/1 | 1/1 | 7.16 | 6.53 |
| 1/1 | 1/1 | 10.01 | 6.12 |
| 1/1 | 1/1 | 8.37 | 4.83 |
| 1/1 | 1/1 | 8.46 | 6.98 |
| 1/1 | 1/1 | 7.11 | 5.76 |
| 1/1 | 1/1 | 9.12 | 7.89 |
| 1/1 | 1/1 | 4.98 | 3.91 |
| 1/1 | 1/1 | 8.73 | 7.67 |
| 1/1 | 1/1 | 9.64 | 8.85 |
| 1/1 | 1/1 | 6.73 | 6.11 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.15 | 5.89 |
| 0/1 | 1/1 | 3.26 | 3.42 |
| 1/1 | 1/1 | 6.14 | 6.32 |
| 1/1 | 0/1 | 4.07 | 2.7 |
| 1/1 | 0/1 | 4.3 | 3.04 |
| 1/1 | 1/1 | 10.02 | 8.57 |
| 1/1 | 1/1 | 5.13 | 6.09 |
| 1/1 | 1/1 | 3.38 | 4.94 |
| 0/1 | 1/1 | 2.73 | 4.65 |
| 1/1 | 1/1 | 5.59 | 4.96 |
| 1/1 | 1/1 | 2.83 | 2.45 |
| 0/1 | 1/1 | 3.86 | 3.55 |
| 1/1 | 1/1 | 5.18 | 4.93 |
| 0/1 | 1/1 | 2.77 | 4.55 |
| 1/1 | 1/1 | 6.44 | 5.8 |
| 1/1 | 1/1 | 5.11 | 6.93 |
| 1/1 | 1/1 | 2.9 | 4.91 |
| 1/1 | 1/1 | 6.76 | 5.8 |
| 1/1 | 1/1 | 9.27 | 8.6 |
| 1/1 | 0/1 | 3.66 | 2.6 |
| 1/1 | 1/1 | 5.7 | 4.82 |
| 1/1 | 0/1 | 6.15 | 3.75 |
| 1/1 | 0/1 | 4.48 | 2.17 |
| 1/1 | 0/1 | 5.26 | 3.21 |
| 1/1 | 0/1 | 4.72 | 2.66 |
| 1/1 | 1/1 | 5.31 | 5.37 |
| 1/1 | 1/1 | 5.07 | 5.15 |
| 1/1 | 1/1 | 5.63 | 5.71 |
| 1/1 | 1/1 | 6.53 | 6.7 |
| 0/1 | 1/1 | 2.87 | 3.13 |
| 1/1 | 1/1 | 5.44 | 6.18 |
| 1/1 | 1/1 | 5.72 | 3.56 |
| 1/1 | 1/1 | 6.81 | 4.89 |
| 1/1 | 1/1 | 5.99 | 4.07 |
| 1/1 | 1/1 | 8.61 | 6.78 |
| 1/1 | 1/1 | 6.91 | 5.13 |
| 0/1 | 1/1 | 2.49 | 2.72 |
| 0/1 | 1/1 | 3.41 | 3.65 |
| 1/1 | 1/1 | 3.58 | 4.3 |
| 1/1 | 1/1 | 3.47 | 2.88 |
| 1/1 | 1/1 | 6.07 | 5.53 |
| 1/1 | 1/1 | 5.25 | 4.77 |
| 1/1 | 1/1 | 7.19 | 6.8 |
| 1/1 | 1/1 | 2.99 | 2.63 |
| 1/1 | 1/1 | 4.64 | 4.38 |
| 1/1 | 1/1 | 9.04 | 8.82 |
| 1/1 | 1/1 | 4.75 | 6.74 |
| 1/1 | 1/1 | 4.55 | 4.57 |
| 1/1 | 1/1 | 8.41 | 8.62 |
| 0/1 | 1/1 | 6.25 | 6.46 |
| 0/1 | 1/1 | 3.75 | 6.17 |
| 1/1 | 1/1 | 7.64 | 6.65 |
| 1/1 | 1/1 | 9.93 | 11.48 |
| 1/1 | 1/1 | 7.66 | 9.35 |
| 1/1 | 1/1 | 8.83 | 10.57 |
| 1/1 | 1/1 | 9.81 | 11.61 |
| 1/1 | 1/1 | 10.82 | 12.62 |
| 1/1 | 1/1 | 9.46 | 11.47 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.48 | 11.55 |
| 1/1 | 1/1 | 5.52 | 7.59 |
| 1/1 | 1/1 | 5.9 | 7.99 |
| 1/1 | 1/1 | 9.12 | 11.22 |
| 1/1 | 1/1 | 9.79 | 11.91 |
| 1/1 | 1/1 | 8.2 | 10.31 |
| 1/1 | 1/1 | 8.61 | 10.88 |
| 1/1 | 1/1 | 8.57 | 10.93 |
| 1/1 | 1/1 | 7.56 | 10.26 |
| 1/1 | 1/1 | 6.17 | 8.96 |
| 1/1 | 1/1 | 5.78 | 4.81 |
| 1/1 | 1/1 | 5.37 | 4.49 |
| 0/1 | 1/1 | 2.55 | 4.09 |
| 1/1 | 1/1 | 6.64 | 5.84 |
| 1/1 | 1/1 | 6.46 | 5.94 |
| 1/1 | 0/1 | 4.34 | 3.55 |
| 1/1 | 1/1 | 6.2 | 7.82 |
| 1/1 | 0/1 | 3.44 | 1.9 |
| 1/1 | 0/1 | 7.17 | 5.69 |
| 1/1 | 1/1 | 6.08 | 7.36 |
| 1/1 | 1/1 | 3.08 | 2.54 |
| 1/1 | 1/1 | 7.76 | 7.34 |
| 1/1 | 1/1 | 5.41 | 5.09 |
| 1/1 | 1/1 | 6.74 | 8.73 |
| 0/1 | 1/1 | 5.48 | 7.9 |
| 0/1 | 1/1 | 5.55 | 8.26 |
| 0/1 | 1/1 | 4.7 | 7.54 |
| 0/1 | 1/1 | 3.89 | 6.92 |
| 0/1 | 1/1 | 3.59 | 8.2 |
| 1/1 | 1/1 | 5.74 | 4.7 |
| 1/1 | 0/1 | 3.29 | 2.44 |
| 1/1 | 1/1 | 7.06 | 6.33 |
| 1/1 | 1/1 | 7.26 | 5.27 |
| 1/1 | 1/1 | 6.12 | 4.48 |
| 1/1 | 1/1 | 4.16 | 4.67 |
| 0/1 | 1/1 | 2.59 | 3.72 |
| 1/1 | 1/1 | 8.54 | 7.91 |
| 1/1 | 1/1 | 8.29 | 7.67 |
| 1/1 | 0/1 | 3.96 | 3.41 |
| 0/1 | 1/1 | 4.84 | 4.45 |
| 1/1 | 1/1 | 7.43 | 7.05 |
| 1/1 | 1/1 | 8.29 | 7.95 |
| 1/1 | 1/1 | 7.27 | 6.96 |
| 1/1 | 1/1 | 6.96 | 6.65 |
| 1/1 | 1/1 | 7.29 | 7 |
| 1/1 | 1/1 | 4.66 | 4.38 |
| 1/1 | 1/1 | 8.44 | 8.18 |
| 1/1 | 1/1 | 13.54 | 13.76 |
| 1/1 | 1/1 | 7.85 | 8.46 |
| 1/1 | 1/1 | 6.98 | 10.4 |
| 1/1 | 1/1 | 9.18 | 7.86 |
| 0/1 | 1/1 | 2.77 | 3.97 |
| 0/1 | 1/1 | 5.06 | 6.27 |
| 0/1 | 1/1 | 2.74 | 4.13 |
| 0/1 | 1/1 | 3.03 | 4.73 |
| 0/1 | 1/1 | 3.8 | 5.99 |
| 1/1 | 0/1 | 5 | 3.43 |
| 1/1 | 0/1 | 4.3 | 2.88 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 5.92 | 4.69 |
| 0/1 | 1/1 | 2.13 | 3.18 |
| 0/1 | 1/1 | 3.07 | 4.11 |
| 0/1 | 1/1 | 2.72 | 4.33 |
| 1/1 | 1/1 | 5.4 | 7.39 |
| 1/1 | 1/1 | 6.45 | 5.67 |
| 1/1 | 1/1 | 6.11 | 5.51 |
| 1/1 | 1/1 | 7.45 | 6.98 |
| 1/1 | 1/1 | 6.55 | 6.14 |
| 1/1 | 0/1 | 4.4 | 3.64 |
| 1/1 | 1/1 | 3.97 | 3.33 |
| 1/1 | 1/1 | 6.32 | 5.75 |
| 0/1 | 1/1 | 3.5 | 3.13 |
| 1/1 | 1/1 | 8.44 | 6.75 |
| 0/1 | 1/1 | 3.92 | 4.62 |
| 1/1 | 1/1 | 4.36 | 3.65 |
| 1/1 | 0/1 | 2.58 | 1.96 |
| 1/1 | 1/1 | 7.54 | 6.94 |
| 0/1 | 1/1 | 2.69 | 2.23 |
| 1/1 | 1/1 | 6.6 | 6.24 |
| 1/1 | 1/1 | 7.63 | 7.27 |
| 1/1 | 1/1 | 4.62 | 6.49 |
| 1/1 | 1/1 | 5.08 | 3.8 |
| 1/1 | 0/1 | 4.12 | 3.14 |
| 1/1 | 1/1 | 4.08 | 5.33 |
| 1/1 | 1/1 | 5.4 | 6.76 |
| 1/1 | 1/1 | 4.76 | 4.12 |
| 1/1 | 1/1 | 4.19 | 3.83 |
| 1/1 | 1/1 | 4.68 | 4.41 |
| 1/1 | 1/1 | 5.3 | 5.05 |
| 1/1 | 1/1 | 3.49 | 2.64 |
| 1/1 | 1/1 | 6.58 | 6 |
| 1/1 | 1/1 | 5.07 | 4.56 |
| 1/1 | 1/1 | 5.05 | 6.59 |
| 0/1 | 1/1 | 1.82 | 3.6 |
| 1/1 | 1/1 | 9.13 | 8.34 |
| 1/1 | 1/1 | 5.7 | 4.92 |
| 1/1 | 0/1 | 7.48 | 6.91 |
| 1/1 | 1/1 | 8.8 | 8.25 |
| 1/1 | 0/1 | 4.31 | 2.27 |
| 1/1 | 1/1 | 5.22 | 3.38 |
| 1/1 | 1/1 | 4.39 | 5.24 |
| 1/1 | 1/1 | 2.96 | 3.83 |
| 1/1 | 1/1 | 5.58 | 4.81 |
| 1/1 | 1/1 | 6.78 | 6.09 |
| 1/1 | 1/1 | 6.62 | 6.09 |
| 1/1 | 1/1 | 9.57 | 8.65 |
| 1/1 | 1/1 | 9.88 | 9.13 |
| 1/1 | 1/1 | 6.37 | 8.05 |
| 1/1 | 1/1 | 7.08 | 3.96 |
| 1/1 | 1/1 | 6.72 | 6.07 |
| 1/1 | 1/1 | 5.36 | 4.93 |
| 1/1 | 1/1 | 8.57 | 8.55 |
| 1/1 | 1/1 | 5.85 | 5.93 |
| 1/1 | 1/1 | 5.76 | 5.47 |
| 0/1 | 1/1 | 2.07 | 4.34 |
| 1/1 | 1/1 | 4.95 | 3.8 |
| 1/1 | 1/1 | 6.91 | 6.06 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.84 | 3.04 |
| 1/1 | 1/1 | 9.66 | 9.03 |
| 1/1 | 1/1 | 8.71 | 8.22 |
| 0/1 | 1/1 | 4.38 | 3.94 |
| 0/1 | 1/1 | 3.01 | 4.88 |
| 0/1 | 1/1 | 2.63 | 5.02 |
| 1/1 | 0/1 | 5.74 | 4.3 |
| 1/1 | 1/1 | 5.3 | 4.21 |
| 1/1 | 1/1 | 6.35 | 7.29 |
| 1/1 | 1/1 | 10.84 | 10.36 |
| 1/1 | 0/1 | 3.19 | 2.7 |
| 1/1 | 1/1 | 10.08 | 9.8 |
| 1/1 | 1/1 | 5.08 | 3.69 |
| 1/1 | 1/1 | 6.76 | 5.4 |
| 1/1 | 1/1 | 4.32 | 3.07 |
| 1/1 | 1/1 | 5.8 | 4.59 |
| 1/1 | 1/1 | 4.55 | 3.4 |
| 0/1 | 1/1 | 2.43 | 4.03 |
| 1/1 | 1/1 | 9.44 | 9.14 |
| 1/1 | 1/1 | 9.13 | 9.12 |
| 0/1 | 1/1 | 3.41 | 3.49 |
| 1/1 | 1/1 | 4.28 | 6.9 |
| 1/1 | 1/1 | 6.93 | 6.2 |
| 1/1 | 1/1 | 6.29 | 5.92 |
| 1/1 | 1/1 | 3.67 | 5.73 |
| 1/1 | 1/1 | 10 | 7.7 |
| 1/1 | 1/1 | 7.89 | 5.82 |
| 1/1 | 1/1 | 8.25 | 6.22 |
| 1/1 | 1/1 | 6.2 | 6.5 |
| 1/1 | 0/1 | 4.51 | 3.59 |
| 1/1 | 1/1 | 5.03 | 4.27 |
| 1/1 | 1/1 | 4.98 | 4.33 |
| 1/1 | 1/1 | 4.08 | 5.58 |
| 1/1 | 1/1 | 6.69 | 8.21 |
| 1/1 | 1/1 | 5.97 | 7.52 |
| 1/1 | 1/1 | 7.82 | 9.38 |
| 0/1 | 1/1 | 4.47 | 6.04 |
| 1/1 | 1/1 | 7.85 | 9.42 |
| 1/1 | 1/1 | 7.65 | 9.22 |
| 1/1 | 1/1 | 9.12 | 10.71 |
| 1/1 | 1/1 | 5.75 | 7.35 |
| 1/1 | 1/1 | 5.85 | 7.48 |
| 1/1 | 1/1 | 7.34 | 9.21 |
| 1/1 | 1/1 | 9.05 | 10.95 |
| 1/1 | 1/1 | 7.23 | 9.26 |
| 0/1 | 1/1 | 2.34 | 4.39 |
| 0/1 | 1/1 | 5.88 | 7.98 |
| 1/1 | 1/1 | 7.01 | 9.16 |
| 1/1 | 1/1 | 4.66 | 7.36 |
| 1/1 | 0/1 | 4.3 | 2.7 |
| 1/1 | 1/1 | 4.86 | 5.71 |
| 1/1 | 0/1 | 3.22 | 2.69 |
| 1/1 | 1/1 | 6.33 | 5.84 |
| 1/1 | 1/1 | 3.12 | 2.79 |
| 1/1 | 1/1 | 4.75 | 4.53 |
| 1/1 | 1/1 | 3.65 | 3.12 |
| 1/1 | 1/1 | 2.96 | 2.69 |
| 1/1 | 1/1 | 8.89 | 8.67 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.23 | 6 |
| 1/1 | 1/1 | 5.77 | 5.6 |
| 1/1 | 1/1 | 3.25 | 5.25 |
| 1/1 | 0/1 | 10.01 | 3.27 |
| 1/1 | 0/1 | 8.9 | 2.18 |
| 1/1 | 1/1 | 10.84 | 4.16 |
| 1/1 | 0/1 | 8.67 | 2.22 |
| 1/1 | 1/1 | 10.03 | 3.65 |
| 1/1 | 1/1 | 8.47 | 4.11 |
| 1/1 | 1/1 | 8.12 | 4.02 |
| 1/1 | 1/1 | 7.75 | 3.76 |
| 1/1 | 1/1 | 5.91 | 2.01 |
| 1/1 | 1/1 | 8.26 | 4.58 |
| 1/1 | 0/1 | 6.07 | 2.51 |
| 1/1 | 1/1 | 6.7 | 3.19 |
| 1/1 | 0/1 | 5.58 | 2.06 |
| 1/1 | 1/1 | 9.47 | 5.98 |
| 1/1 | 0/1 | 5.79 | 2.44 |
| 1/1 | 0/1 | 5.25 | 1.99 |
| 1/1 | 1/1 | 6.2 | 2.98 |
| 1/1 | 0/1 | 5.09 | 1.92 |
| 1/1 | 0/1 | 4.86 | 2.21 |
| 1/1 | 0/1 | 4.75 | 2.18 |
| 1/1 | 1/1 | 5.16 | 2.76 |
| 1/1 | 0/1 | 8.22 | 6.32 |
| 1/1 | 0/1 | 4.4 | 2.64 |
| 1/1 | 1/1 | 5.01 | 3.58 |
| 1/1 | 1/1 | 4.5 | 3.45 |
| 1/1 | 0/1 | 3.54 | 2.62 |
| 1/1 | 1/1 | 4.16 | 3.25 |
| 1/1 | 0/1 | 3.03 | 2.13 |
| 1/1 | 0/1 | 2.67 | 1.99 |
| 1/1 | 1/1 | 7.2 | 6.95 |
| 1/1 | 1/1 | 10.82 | 10.62 |
| 1/1 | 1/1 | 8.23 | 8.08 |
| 1/1 | 1/1 | 3.95 | 4.26 |
| 1/1 | 1/1 | 5.09 | 5.57 |
| 0/1 | 1/1 | 6.46 | 5.93 |
| 1/1 | 1/1 | 6.08 | 5.57 |
| 1/1 | 1/1 | 5.18 | 4.84 |
| 1/1 | 1/1 | 4.75 | 4.44 |
| 1/1 | 1/1 | 3.55 | 3.38 |
| 1/1 | 1/1 | 3.87 | 6.07 |
| 0/1 | 1/1 | 3.53 | 6.27 |
| 1/1 | 1/1 | 5.91 | 5.2 |
| 1/1 | 1/1 | 5.35 | 4.94 |
| 1/1 | 1/1 | 3.38 | 5.58 |
| 1/1 | 1/1 | 4.33 | 6.56 |
| 0/1 | 1/1 | 2.69 | 5.83 |
| 1/1 | 1/1 | 4.78 | 4.1 |
| 0/1 | 1/1 | 6.19 | 5.85 |
| 1/1 | 1/1 | 6.42 | 6.12 |
| 0/1 | 1/1 | 2.24 | 4.33 |
| 1/1 | 0/1 | 4.34 | 2.52 |
| 0/1 | 1/1 | 4.89 | 5.53 |
| 1/1 | 1/1 | 10.15 | 10.81 |
| 0/1 | 1/1 | 3.41 | 4.27 |
| 0/1 | 1/1 | 4.92 | 6.1 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.89 | 5.5 |
| 0/1 | 1/1 | 6.71 | 6.43 |
| 1/1 | 1/1 | 6.37 | 6.14 |
| 1/1 | 0/1 | 4.02 | 3.13 |
| 1/1 | 1/1 | 7.14 | 6.33 |
| 1/1 | 1/1 | 8.23 | 7.45 |
| 1/1 | 1/1 | 5.94 | 5.27 |
| 1/1 | 1/1 | 9.38 | 8.28 |
| 1/1 | 0/1 | 3.07 | 2.03 |
| 1/1 | 1/1 | 8.65 | 7.64 |
| 1/1 | 1/1 | 6.52 | 5.62 |
| 1/1 | 1/1 | 7.71 | 6.92 |
| 1/1 | 1/1 | 4.19 | 5.48 |
| 1/1 | 1/1 | 5.73 | 7.02 |
| 0/1 | 1/1 | 3.03 | 4.4 |
| 0/1 | 1/1 | 2.64 | 4.94 |
| 1/1 | 1/1 | 4.97 | 7.27 |
| 1/1 | 1/1 | 6.91 | 6.92 |
| 0/1 | 1/1 | 1.8 | 4.25 |
| 1/1 | 1/1 | 3.97 | 6.47 |
| 1/1 | 1/1 | 7.44 | 9.99 |
| 1/1 | 1/1 | 5.68 | 8.44 |
| 0/1 | 1/1 | 4.01 | 6.77 |
| 1/1 | 1/1 | 7.39 | 10.23 |
| 1/1 | 1/1 | 6.11 | 9.03 |
| 1/1 | 1/1 | 6.31 | 5.22 |
| 1/1 | 1/1 | 5.09 | 6.39 |
| 1/1 | 1/1 | 4.14 | 5.47 |
| 0/1 | 1/1 | 4.16 | 5.54 |
| 0/1 | 1/1 | 3.13 | 4.59 |
| 1/1 | 1/1 | 6.37 | 4.53 |
| 0/1 | 1/1 | 3.49 | 4.04 |
| 1/1 | 1/1 | 3.13 | 4.22 |
| 1/1 | 0/1 | 3.07 | 2.6 |
| 1/1 | 1/1 | 7.35 | 7.06 |
| 1/1 | 1/1 | 7.52 | 7.4 |
| 1/1 | 1/1 | 7.86 | 6.26 |
| 1/1 | 1/1 | 2.33 | 3.81 |
| 1/1 | 1/1 | 8.83 | 7.79 |
| 1/1 | 0/1 | 4.84 | 3.9 |
| 1/1 | 0/1 | 4.3 | 3.47 |
| 0/1 | 1/1 | 3.77 | 5.15 |
| 1/1 | 1/1 | 4.76 | 6.93 |
| 1/1 | 1/1 | 12.44 | 12.08 |
| 1/1 | 1/1 | 6.97 | 6.62 |
| 1/1 | 1/1 | 8.23 | 8.07 |
| 1/1 | 1/1 | 4.29 | 4.14 |
| 1/1 | 1/1 | 7.97 | 7.86 |
| 1/1 | 1/1 | 5.49 | 4 |
| 1/1 | 0/1 | 3.62 | 2.41 |
| 1/1 | 1/1 | 4.7 | 3.57 |
| 1/1 | 1/1 | 7.02 | 6.62 |
| 1/1 | 1/1 | 4.1 | 4 |
| 0/1 | 1/1 | 4.52 | 4.44 |
| 0/1 | 1/1 | 2.71 | 5.18 |
| 1/1 | 1/1 | 4.05 | 3.09 |
| 1/1 | 1/1 | 6.11 | 5.47 |
| 0/1 | 1/1 | 2.21 | 4.59 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.32 | 5.03 |
| 1/1 | 0/1 | 5.57 | 4.61 |
| 1/1 | 0/1 | 4.97 | 3.75 |
| 1/1 | 1/1 | 6.52 | 7.81 |
| 1/1 | 1/1 | 5.38 | 6.82 |
| 1/1 | 1/1 | 4.64 | 6.18 |
| 1/1 | 0/1 | 6.61 | 3.53 |
| 1/1 | 0/1 | 3.68 | 3.26 |
| 0/1 | 1/1 | 7.4 | 7.34 |
| 1/1 | 1/1 | 8.42 | 8.52 |
| 1/1 | 1/1 | 4.88 | 5.03 |
| 1/1 | 0/1 | 5.28 | 4.11 |
| 1/1 | 1/1 | 7.81 | 6.9 |
| 1/1 | 1/1 | 4.04 | 5.4 |
| 1/1 | 1/1 | 3.54 | 5 |
| 0/1 | 1/1 | 2.41 | 4.09 |
| 1/1 | 1/1 | 6.03 | 4.99 |
| 1/1 | 1/1 | 6.63 | 5.88 |
| 1/1 | 1/1 | 6.76 | 8.11 |
| 0/1 | 1/1 | 4 | 5.44 |
| 1/1 | 1/1 | 4.91 | 6.55 |
| 0/1 | 1/1 | 2.53 | 5.43 |
| 1/1 | 1/1 | 4.95 | 4.03 |
| 1/1 | 1/1 | 6.2 | 5.4 |
| 1/1 | 0/1 | 6.78 | 6.03 |
| 1/1 | 1/1 | 7.12 | 6.42 |
| 1/1 | 1/1 | 5.79 | 5.1 |
| 1/1 | 1/1 | 3.89 | 3.25 |
| 1/1 | 0/1 | 8.11 | 6.51 |
| 0/1 | 1/1 | 3.43 | 4.24 |
| 1/1 | 1/1 | 8.43 | 9.62 |
| 1/1 | 1/1 | 9.1 | 8.71 |
| 1/1 | 1/1 | 10.13 | 9.91 |
| 0/1 | 1/1 | 4.82 | 4.71 |
| 1/1 | 1/1 | 7.09 | 6.52 |
| 1/1 | 1/1 | 6.78 | 6.44 |
| 1/1 | 1/1 | 8.79 | 8.47 |
| 1/1 | 1/1 | 7.89 | 7.6 |
| 1/1 | 1/1 | 7.08 | 6.81 |
| 1/1 | 1/1 | 4.82 | 4.56 |
| 1/1 | 1/1 | 6.47 | 8.41 |
| 0/1 | 1/1 | 5.18 | 7.48 |
| 1/1 | 0/1 | 3.33 | 2.25 |
| 1/1 | 0/1 | 3.19 | 2.2 |
| 1/1 | 1/1 | 4.94 | 6.25 |
| 1/1 | 1/1 | 5.29 | 3.5 |
| 1/1 | 1/1 | 4.95 | 5.65 |
| 1/1 | 1/1 | 7.83 | 7.18 |
| 1/1 | 1/1 | 6.8 | 6.31 |
| 1/1 | 1/1 | 8.01 | 7.57 |
| 1/1 | 1/1 | 6.05 | 5.63 |
| 1/1 | 1/1 | 5.8 | 5.45 |
| 1/1 | 1/1 | 8.63 | 8.3 |
| 1/1 | 1/1 | 4.58 | 4.27 |
| 0/1 | 1/1 | 6.66 | 6.38 |
| 0/1 | 1/1 | 4.41 | 6.27 |
| 0/1 | 1/1 | 3.17 | 5.71 |
| 1/1 | 1/1 | 7.75 | 4.45 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.66 | 3.56 |
| 1/1 | 1/1 | 7.06 | 4.03 |
| 1/1 | 0/1 | 3.17 | 2.27 |
| 1/1 | 1/1 | 3.33 | 2.46 |
| 1/1 | 1/1 | 6.95 | 6.56 |
| 1/1 | 1/1 | 6.39 | 6.07 |
| 1/1 | 1/1 | 10.95 | 10.73 |
| 1/1 | 1/1 | 4.91 | 4.72 |
| 1/1 | 1/1 | 2.9 | 2.8 |
| 0/1 | 1/1 | 2.94 | 2.96 |
| 0/1 | 1/1 | 3.57 | 3.61 |
| 1/1 | 1/1 | 7.62 | 7.87 |
| 1/1 | 1/1 | 2.54 | 2.81 |
| 1/1 | 1/1 | 5.04 | 5.32 |
| 1/1 | 1/1 | 3.69 | 3.99 |
| 1/1 | 1/1 | 4.5 | 5.24 |
| 1/1 | 0/1 | 3.1 | 2.1 |
| 1/1 | 0/1 | 2.9 | 2.04 |
| 1/1 | 1/1 | 3.45 | 2.65 |
| 1/1 | 1/1 | 4.77 | 4.08 |
| 1/1 | 1/1 | 5.42 | 4.78 |
| 1/1 | 1/1 | 4.69 | 6.24 |
| 1/1 | 1/1 | 6.74 | 5.86 |
| 1/1 | 1/1 | 7.14 | 6.3 |
| 1/1 | 1/1 | 6.81 | 5.98 |
| 1/1 | 1/1 | 4.96 | 4.43 |
| 1/1 | 0/1 | 6.48 | 3.01 |
| 1/1 | 1/1 | 5.51 | 4.43 |
| 1/1 | 0/1 | 2.9 | 1.96 |
| 1/1 | 1/1 | 4.04 | 3.24 |
| 1/1 | 1/1 | 7.63 | 6.93 |
| 1/1 | 1/1 | 6.33 | 5.81 |
| 1/1 | 1/1 | 3.68 | 3.21 |
| 0/1 | 1/1 | 5.51 | 5.27 |
| 1/1 | 1/1 | 5.51 | 5.33 |
| 0/1 | 1/1 | 3.34 | 3.24 |
| 1/1 | 1/1 | 5.94 | 5.86 |
| 1/1 | 1/1 | 8.03 | 8.08 |
| 1/1 | 1/1 | 4.07 | 4.17 |
| 0/1 | 1/1 | 5.08 | 5.19 |
| 0/1 | 1/1 | 5.56 | 5.82 |
| 1/1 | 1/1 | 9.4 | 5.75 |
| 1/1 | 1/1 | 8.96 | 5.32 |
| 1/1 | 1/1 | 9.69 | 6.42 |
| 1/1 | 1/1 | 7.59 | 6.31 |
| 1/1 | 1/1 | 7.85 | 6.57 |
| 1/1 | 1/1 | 9.22 | 7.99 |
| 1/1 | 1/1 | 7.84 | 6.91 |
| 1/1 | 1/1 | 7.4 | 6.61 |
| 1/1 | 1/1 | 5.12 | 4.35 |
| 1/1 | 1/1 | 6.84 | 6.19 |
| 1/1 | 1/1 | 8.27 | 7.89 |
| 1/1 | 1/1 | 8.05 | 7.75 |
| 1/1 | 1/1 | 8.69 | 8.5 |
| 1/1 | 1/1 | 8.47 | 8.33 |
| 1/1 | 1/1 | 9.04 | 9.02 |
| 0/1 | 1/1 | 5.56 | 5.64 |
| 0/1 | 1/1 | 6.26 | 6.86 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 5.89 | 6.49 |
| 1/1 | 1/1 | 8.25 | 6.99 |
| 1/1 | 1/1 | 3 | 4.12 |
| 0/1 | 1/1 | 2.51 | 3.88 |
| 1/1 | 1/1 | 3.45 | 4.89 |
| 0/1 | 1/1 | 2.4 | 4.08 |
| 1/1 | 1/1 | 3.39 | 5.94 |
| 0/1 | 1/1 | 2.85 | 5.57 |
| 1/1 | 1/1 | 7.61 | 6.96 |
| 1/1 | 1/1 | 6.33 | 5.88 |
| 1/1 | 1/1 | 5.87 | 5.46 |
| 1/1 | 1/1 | 3.37 | 3.01 |
| 1/1 | 1/1 | 7.35 | 6.98 |
| 1/1 | 1/1 | 8.73 | 8.38 |
| 0/1 | 1/1 | 2.97 | 5.4 |
| 1/1 | 0/1 | 8.56 | 5.27 |
| 1/1 | 1/1 | 8.53 | 7.79 |
| 1/1 | 0/1 | 2.43 | 1.72 |
| 1/1 | 1/1 | 6.03 | 5.37 |
| 1/1 | 1/1 | 4.6 | 3.98 |
| 1/1 | 1/1 | 5.43 | 4.85 |
| 1/1 | 1/1 | 6.04 | 5.47 |
| 1/1 | 1/1 | 6.78 | 6.26 |
| 1/1 | 1/1 | 6.63 | 6.13 |
| 1/1 | 1/1 | 6.09 | 5.73 |
| 1/1 | 1/1 | 4.94 | 4.6 |
| 1/1 | 1/1 | 4.97 | 4.77 |
| 1/1 | 1/1 | 5.89 | 5.74 |
| 1/1 | 1/1 | 5.86 | 5.74 |
| 1/1 | 1/1 | 8.14 | 8.1 |
| 1/1 | 1/1 | 8.38 | 8.4 |
| 1/1 | 1/1 | 5.67 | 5.75 |
| 1/1 | 1/1 | 6.28 | 6.42 |
| 1/1 | 1/1 | 10.13 | 10.41 |
| 0/1 | 1/1 | 6.32 | 6.82 |
| 1/1 | 1/1 | 7.53 | 7.15 |
| 1/1 | 1/1 | 3.61 | 3.31 |
| 1/1 | 1/1 | 5.01 | 7.2 |
| 1/1 | 1/1 | 5.75 | 7.98 |
| 1/1 | 0/1 | 7.74 | 6.56 |
| 1/1 | 1/1 | 10.01 | 8.99 |
| 1/1 | 1/1 | 6.07 | 5.17 |
| 1/1 | 0/1 | 4.11 | 3.01 |
| 1/1 | 0/1 | 3.32 | 2.33 |
| 1/1 | 1/1 | 5.68 | 4.45 |
| 1/1 | 1/1 | 4.07 | 5.34 |
| 1/1 | 1/1 | 5.93 | 4.87 |
| 1/1 | 0/1 | 7.6 | 6.87 |
| 1/1 | 1/1 | 4.27 | 3.56 |
| 1/1 | 0/1 | 5.89 | 5.27 |
| 1/1 | 1/1 | 5.94 | 7.87 |
| 1/1 | 1/1 | 5.33 | 7.33 |
| 0/1 | 1/1 | 3.49 | 5.52 |
| 0/1 | 1/1 | 5.59 | 7.65 |
| 0/1 | 1/1 | 4.14 | 6.86 |
| 1/1 | 1/1 | 4.83 | 7.63 |
| 1/1 | 1/1 | 5.52 | 5.18 |
| 1/1 | 1/1 | 7.49 | 7.43 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 9.48 | 9.43 |
| 1/1 | 1/1 | 7.68 | 6.87 |
| 1/1 | 1/1 | 6.48 | 5.83 |
| 1/1 | 1/1 | 4.46 | 6.31 |
| 0/1 | 1/1 | 7.05 | 6.89 |
| 1/1 | 1/1 | 7.39 | 7.26 |
| 1/1 | 1/1 | 8.49 | 8.36 |
| 1/1 | 1/1 | 7.24 | 7.26 |
| 1/1 | 1/1 | 7.49 | 7.62 |
| 0/1 | 1/1 | 4.58 | 7.31 |
| 1/1 | 1/1 | 5.09 | 3.9 |
| 1/1 | 1/1 | 4.31 | 3.42 |
| 1/1 | 1/1 | 5.04 | 2.77 |
| 0/1 | 1/1 | 3.18 | 3.49 |
| 1/1 | 1/1 | 10.02 | 8.62 |
| 1/1 | 1/1 | 4.83 | 3.57 |
| 1/1 | 1/1 | 6.89 | 5.87 |
| 1/1 | 1/1 | 5.97 | 4.05 |
| 1/1 | 1/1 | 2.61 | 3.07 |
| 0/1 | 1/1 | 1.96 | 2.94 |
| 1/1 | 1/1 | 4.61 | 5.7 |
| 1/1 | 1/1 | 7.91 | 9.05 |
| 1/1 | 1/1 | 5.2 | 6.45 |
| 1/1 | 1/1 | 2.99 | 7.4 |
| 1/1 | 1/1 | 8.41 | 6.28 |
| 1/1 | 1/1 | 7.18 | 5.3 |
| 0/1 | 1/1 | 5.12 | 5.37 |
| 1/1 | 1/1 | 9.99 | 10.36 |
| 1/1 | 1/1 | 5.56 | 5.16 |
| 0/1 | 1/1 | 6.74 | 6.4 |
| 1/1 | 1/1 | 8.58 | 8.35 |
| 0/1 | 1/1 | 6.58 | 6.39 |
| 1/1 | 1/1 | 7.6 | 9.63 |
| 1/1 | 1/1 | 7.39 | 9.51 |
| 1/1 | 1/1 | 6.46 | 8.63 |
| 1/1 | 1/1 | 5.59 | 7.86 |
| 1/1 | 1/1 | 4.39 | 3.39 |
| 0/1 | 1/1 | 4.21 | 3.51 |
| 1/1 | 1/1 | 4.67 | 6.17 |
| 1/1 | 1/1 | 5.55 | 4.39 |
| 1/1 | 1/1 | 4.4 | 3.53 |
| 1/1 | 1/1 | 7.83 | 5.96 |
| 1/1 | 1/1 | 6.85 | 5.15 |
| 1/1 | 1/1 | 3.14 | 3.76 |
| 1/1 | 1/1 | 4.95 | 5.61 |
| 0/1 | 1/1 | 2.23 | 3.21 |
| 0/1 | 1/1 | 2.81 | 3.79 |
| 1/1 | 1/1 | 8.33 | 7.61 |
| 1/1 | 1/1 | 5.99 | 5.52 |
| 1/1 | 0/1 | 3.4 | 2.03 |
| 1/1 | 1/1 | 11.9 | 10.62 |
| 1/1 | 1/1 | 4.39 | 3.27 |
| 0/1 | 1/1 | 2.12 | 4.14 |
| 1/1 | 0/1 | 3.82 | 2.62 |
| 0/1 | 1/1 | 2.96 | 4.15 |
| 0/1 | 1/1 | 2.89 | 4.9 |
| 1/1 | 1/1 | 10.48 | 9.74 |
| 1/1 | 1/1 | 5.32 | 4.59 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 8.66 | 8.37 |
| 1/1 | 1/1 | 6.39 | 6.24 |
| 1/1 | 1/1 | 6.3 | 6.25 |
| 0/1 | 1/1 | 2.49 | 5.91 |
| 1/1 | 0/1 | 5.79 | 3.95 |
| 0/1 | 1/1 | 2.54 | 3.08 |
| 1/1 | 1/1 | 3.88 | 4.43 |
| 0/1 | 1/1 | 2.01 | 2.58 |
| 1/1 | 1/1 | 3.56 | 4.15 |
| 0/1 | 1/1 | 3.21 | 3.82 |
| 0/1 | 1/1 | 4.21 | 4.82 |
| 0/1 | 1/1 | 3.42 | 4.04 |
| 1/1 | 1/1 | 3.45 | 4.11 |
| 0/1 | 1/1 | 1.94 | 2.72 |
| 0/1 | 1/1 | 2.86 | 3.82 |
| 0/1 | 1/1 | 2.33 | 3.34 |
| 1/1 | 1/1 | 5.88 | 7.01 |
| 1/1 | 1/1 | 8.5 | 5.81 |
| 1/1 | 1/1 | 7.2 | 4.61 |
| 1/1 | 1/1 | 7.55 | 5.02 |
| 1/1 | 1/1 | 6.6 | 4.23 |
| 1/1 | 1/1 | 9.64 | 9.34 |
| 1/1 | 1/1 | 8.87 | 8.63 |
| 1/1 | 1/1 | 8.29 | 8.15 |
| 1/1 | 1/1 | 9.33 | 9.22 |
| 1/1 | 1/1 | 3.51 | 3.45 |
| 1/1 | 1/1 | 3.63 | 4.59 |
| 1/1 | 1/1 | 10.83 | 9.87 |
| 1/1 | 1/1 | 7.76 | 7.03 |
| 1/1 | 1/1 | 6.06 | 5.12 |
| 1/1 | 0/1 | 3.45 | 2.56 |
| 1/1 | 1/1 | 5.43 | 4.84 |
| 1/1 | 0/1 | 3.79 | 2.59 |
| 1/1 | 0/1 | 3.16 | 2.03 |
| 1/1 | 1/1 | 4.74 | 3.91 |
| 1/1 | 0/1 | 5.91 | 5.11 |
| 1/1 | 1/1 | 6.3 | 7.88 |
| 0/1 | 1/1 | 4.16 | 5.78 |
| 1/1 | 1/1 | 7.79 | 7.49 |
| 0/1 | 1/1 | 4.52 | 6.66 |
| 1/1 | 1/1 | 6.77 | 6.01 |
| 1/1 | 0/1 | 2.89 | 2.19 |
| 1/1 | 1/1 | 7.04 | 6.45 |
| 1/1 | 1/1 | 5.02 | 4.51 |
| 1/1 | 1/1 | 4.6 | 6.5 |
| 1/1 | 0/1 | 3.95 | 3 |
| 1/1 | 0/1 | 3.64 | 2.77 |
| 1/1 | 1/1 | 3.72 | 3.06 |
| 1/1 | 1/1 | 8.33 | 7.26 |
| 1/1 | 0/1 | 7.46 | 6.62 |
| 1/1 | 1/1 | 7.9 | 7.15 |
| 0/1 | 1/1 | 4.53 | 5.89 |
| 1/1 | 1/1 | 3.6 | 5.01 |
| 1/1 | 1/1 | 4.88 | 6.42 |
| 1/1 | 1/1 | 8.71 | 8.12 |
| 0/1 | 1/1 | 3.97 | 3.43 |
| 1/1 | 1/1 | 9.69 | 9.3 |
| 1/1 | 1/1 | 9.31 | 8.93 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.81 | 9.44 |
| 1/1 | 1/1 | 10.63 | 10.32 |
| 1/1 | 1/1 | 4.84 | 6.76 |
| 1/1 | 1/1 | 7.49 | 6.26 |
| 0/1 | 1/1 | 2.91 | 4.4 |
| 1/1 | 1/1 | 4.27 | 5.83 |
| 1/1 | 1/1 | 4.93 | 3.66 |
| 1/1 | 1/1 | 5.08 | 4.18 |
| 0/1 | 1/1 | 3.31 | 4.61 |
| 1/1 | 1/1 | 6.85 | 6.59 |
| 1/1 | 1/1 | 8.39 | 8.34 |
| 1/1 | 1/1 | 3.91 | 3.88 |
| 0/1 | 1/1 | 3.06 | 3.06 |
| 0/1 | 1/1 | 2.76 | 2.77 |
| 0/1 | 1/1 | 2.05 | 2.11 |
| 1/1 | 1/1 | 3.58 | 5.81 |
| 0/1 | 1/1 | 2.89 | 5.75 |
| 1/1 | 1/1 | 7.09 | 4.82 |
| 1/1 | 1/1 | 7.86 | 8.07 |
| 1/1 | 1/1 | 4.27 | 4.51 |
| 0/1 | 1/1 | 2.95 | 3.2 |
| 0/1 | 1/1 | 2.93 | 3.2 |
| 0/1 | 1/1 | 5.28 | 5.6 |
| 1/1 | 1/1 | 9.24 | 9.74 |
| 0/1 | 1/1 | 2.3 | 2.87 |
| 1/1 | 1/1 | 4.06 | 4.69 |
| 1/1 | 0/1 | 4.81 | 3.39 |
| 1/1 | 1/1 | 5.26 | 4.12 |
| 1/1 | 0/1 | 4.3 | 3.18 |
| 0/1 | 1/1 | 2.9 | 3.87 |
| 1/1 | 1/1 | 6.12 | 7.13 |
| 1/1 | 1/1 | 5.5 | 6.54 |
| 0/1 | 1/1 | 3.87 | 4.93 |
| 1/1 | 1/1 | 6.52 | 7.69 |
| 1/1 | 1/1 | 4.71 | 6.46 |
| 1/1 | 1/1 | 3.23 | 5.22 |
| 1/1 | 1/1 | 3.32 | 5.57 |
| 0/1 | 1/1 | 2.68 | 5.23 |
| 0/1 | 1/1 | 3.55 | 6.13 |
| 1/1 | 0/1 | 2.83 | 2.02 |
| 1/1 | 1/1 | 5.09 | 6.86 |
| 1/1 | 1/1 | 8.26 | 7.43 |
| 1/1 | 1/1 | 7.95 | 7.24 |
| 0/1 | 1/1 | 4.71 | 4.18 |
| 1/1 | 1/1 | 2.92 | 2.4 |
| 1/1 | 1/1 | 3.36 | 4.92 |
| 1/1 | 1/1 | 4.61 | 6.33 |
| 1/1 | 1/1 | 3.71 | 5.72 |
| 1/1 | 1/1 | 5.3 | 4.38 |
| 1/1 | 1/1 | 8.78 | 8.12 |
| 0/1 | 1/1 | 3.37 | 5.09 |
| 1/1 | 0/1 | 5.04 | 3.54 |
| 0/1 | 1/1 | 4.68 | 5.82 |
| 1/1 | 1/1 | 6.38 | 5.07 |
| 1/1 | 1/1 | 4.22 | 3.19 |
| 0/1 | 1/1 | 3.6 | 4.86 |
| 1/1 | 1/1 | 5.53 | 3.25 |
| 1/1 | 1/1 | 6.05 | 3.79 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 4.9 | 2.67 |
| 1/1 | 1/1 | 6.4 | 6.76 |
| 1/1 | 1/1 | 5.79 | 5.11 |
| 1/1 | 1/1 | 6.25 | 5.87 |
| 1/1 | 1/1 | 7.93 | 8.02 |
| 0/1 | 1/1 | 3.14 | 5.91 |
| 1/1 | 0/1 | 3.25 | 2.45 |
| 1/1 | 1/1 | 3.92 | 3.15 |
| 1/1 | 1/1 | 3.64 | 2.88 |
| 0/1 | 1/1 | 3.58 | 5.18 |
| 1/1 | 1/1 | 4.66 | 6.64 |
| 0/1 | 1/1 | 2.33 | 4.99 |
| 1/1 | 0/1 | 6.5 | 4.65 |
| 0/1 | 1/1 | 3.33 | 3.96 |
| 0/1 | 1/1 | 5.05 | 6.08 |
| 1/1 | 0/1 | 8.28 | 6.73 |
| 0/1 | 1/1 | 2.74 | 3.73 |
| 1/1 | 1/1 | 4.29 | 5.88 |
| 1/1 | 1/1 | 5.6 | 4.87 |
| 1/1 | 1/1 | 7.94 | 7.33 |
| 1/1 | 1/1 | 9.97 | 9.53 |
| 1/1 | 1/1 | 5.17 | 4.77 |
| 1/1 | 1/1 | 9.43 | 9.05 |
| 1/1 | 1/1 | 7.63 | 6.67 |
| 1/1 | 1/1 | 5.86 | 4.98 |
| 1/1 | 1/1 | 7.14 | 6.39 |
| 1/1 | 1/1 | 5.71 | 5.03 |
| 0/1 | 1/1 | 2.79 | 4.26 |
| 0/1 | 1/1 | 2.58 | 4.36 |
| 1/1 | 1/1 | 6.43 | 4.79 |
| 1/1 | 1/1 | 9 | 7.64 |
| 1/1 | 0/1 | 4.12 | 2.87 |
| 1/1 | 1/1 | 5.27 | 4.11 |
| 1/1 | 1/1 | 7.67 | 6.62 |
| 1/1 | 1/1 | 4.05 | 5.87 |
| 1/1 | 1/1 | 4.7 | 4.23 |
| 1/1 | 1/1 | 9.42 | 9.02 |
| 1/1 | 1/1 | 5.97 | 4.88 |
| 1/1 | 1/1 | 5.94 | 7.23 |
| 1/1 | 1/1 | 4.74 | 6.25 |
| 1/1 | 1/1 | 5.19 | 7.09 |
| 1/1 | 1/1 | 3.69 | 3.01 |
| 1/1 | 1/1 | 8.57 | 7.96 |
| 1/1 | 1/1 | 6.28 | 5.79 |
| 1/1 | 1/1 | 3.2 | 2.86 |
| 1/1 | 1/1 | 5.28 | 6.96 |
| 1/1 | 1/1 | 4.54 | 6.21 |
| 1/1 | 1/1 | 5.64 | 7.37 |
| 1/1 | 1/1 | 5.06 | 6.83 |
| 0/1 | 1/1 | 3.49 | 5.61 |
| 0/1 | 1/1 | 3.03 | 5.29 |
| 1/1 | 1/1 | 3.64 | 6.75 |
| 1/1 | 0/1 | 3.66 | 2.62 |
| 1/1 | 1/1 | 4.45 | 3.58 |
| 1/1 | 0/1 | 3.86 | 2.72 |
| 1/1 | 1/1 | 4.11 | 3.02 |
| 1/1 | 1/1 | 4.72 | 3.9 |
| 1/1 | 0/1 | 6.31 | 3.46 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.45 | 7.06 |
| 1/1 | 1/1 | 8.73 | 8.45 |
| 1/1 | 1/1 | 8.6 | 8.42 |
| 1/1 | 1/1 | 8.69 | 8.52 |
| 1/1 | 1/1 | 5.51 | 5.38 |
| 1/1 | 1/1 | 9.43 | 9.41 |
| 1/1 | 1/1 | 8.09 | 7.21 |
| 1/1 | 1/1 | 5.82 | 5.23 |
| 1/1 | 1/1 | 3.34 | 5.18 |
| 1/1 | 1/1 | 3.6 | 5.49 |
| 1/1 | 1/1 | 4.53 | 3.06 |
| 0/1 | 1/1 | 2.12 | 3.01 |
| 1/1 | 1/1 | 3.44 | 4.81 |
| 1/1 | 0/1 | 4.22 | 2.81 |
| 1/1 | 0/1 | 6.25 | 4.84 |
| 1/1 | 0/1 | 4.65 | 3.5 |
| 0/1 | 1/1 | 4.16 | 5.16 |
| 0/1 | 1/1 | 3.1 | 4.17 |
| 1/1 | 0/1 | 4.44 | 2.54 |
| 1/1 | 1/1 | 5.07 | 3.37 |
| 0/1 | 1/1 | 3.63 | 4.13 |
| 0/1 | 1/1 | 3.39 | 4.08 |
| 1/1 | 0/1 | 4.79 | 3.51 |
| 1/1 | 0/1 | 7.58 | 6.46 |
| 1/1 | 1/1 | 8.72 | 7.77 |
| 1/1 | 1/1 | 9.7 | 2.78 |
| 1/1 | 1/1 | 11.82 | 5.22 |
| 1/1 | 1/1 | 11.37 | 7.24 |
| 1/1 | 0/1 | 5.87 | 2.02 |
| 1/1 | 0/1 | 4.28 | 2.67 |
| 1/1 | 1/1 | 4.75 | 3.79 |
| 1/1 | 1/1 | 3.55 | 2.92 |
| 1/1 | 1/1 | 2.98 | 4.4 |
| 1/1 | 1/1 | 8.64 | 8.32 |
| 1/1 | 1/1 | 3.35 | 5.44 |
| 1/1 | 0/1 | 7.71 | 6.86 |
| 1/1 | 1/1 | 6 | 5.43 |
| 1/1 | 1/1 | 5.89 | 7.48 |
| 0/1 | 1/1 | 4.19 | 5.95 |
| 0/1 | 1/1 | 2.39 | 4.31 |
| 1/1 | 1/1 | 12.41 | 12.09 |
| 1/1 | 1/1 | 6.44 | 8.53 |
| 1/1 | 0/1 | 3.46 | 2.34 |
| 1/1 | 1/1 | 4.17 | 3.35 |
| 1/1 | 1/1 | 6.05 | 5.77 |
| 1/1 | 1/1 | 5.57 | 5.38 |
| 1/1 | 1/1 | 7.69 | 7.75 |
| 1/1 | 1/1 | 5 | 7.69 |
| 1/1 | 1/1 | 5.49 | 4.76 |
| 1/1 | 1/1 | 4 | 5.76 |
| 0/1 | 1/1 | 3.2 | 5.04 |
| 1/1 | 1/1 | 5.4 | 7.27 |
| 1/1 | 1/1 | 3.25 | 5.16 |
| 1/1 | 1/1 | 4.72 | 6.64 |
| 1/1 | 1/1 | 3.81 | 5.92 |
| 0/1 | 1/1 | 2.96 | 5.09 |
| 1/1 | 1/1 | 11.09 | 10.4 |
| 1/1 | 0/1 | 6.68 | 6.06 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 2.93 | 2.37 |
| 1/1 | 1/1 | 7.71 | 7.18 |
| 1/1 | 1/1 | 7.11 | 6.7 |
| 1/1 | 1/1 | 6.5 | 6.13 |
| 1/1 | 1/1 | 7.55 | 7.18 |
| 1/1 | 1/1 | 5.48 | 7.29 |
| 0/1 | 1/1 | 2.57 | 4.94 |
| 1/1 | 1/1 | 5.14 | 3.89 |
| 1/1 | 1/1 | 7.3 | 6.24 |
| 1/1 | 1/1 | 5.5 | 6.81 |
| 0/1 | 1/1 | 2.91 | 4.53 |
| 0/1 | 1/1 | 2.64 | 4.96 |
| 1/1 | 1/1 | 4.8 | 3.46 |
| 1/1 | 0/1 | 4.09 | 3.03 |
| 1/1 | 0/1 | 4.58 | 3.54 |
| 1/1 | 1/1 | 3.57 | 4.79 |
| 1/1 | 1/1 | 3.88 | 5.31 |
| 1/1 | 1/1 | 7.03 | 6.16 |
| 1/1 | 1/1 | 4.9 | 4.17 |
| 1/1 | 1/1 | 9.67 | 8.95 |
| 1/1 | 1/1 | 8.17 | 7.59 |
| 1/1 | 1/1 | 7.64 | 6.25 |
| 1/1 | 0/1 | 6.2 | 4.86 |
| 1/1 | 1/1 | 10.42 | 7.97 |
| 1/1 | 1/1 | 8.99 | 6.87 |
| 0/1 | 1/1 | 5.38 | 5.36 |
| 1/1 | 1/1 | 7.42 | 7.44 |
| 0/1 | 1/1 | 5.48 | 5.67 |
| 0/1 | 1/1 | 4.7 | 4.97 |
| 1/1 | 1/1 | 9.94 | 8.26 |
| 0/1 | 1/1 | 3.09 | 4.06 |
| 0/1 | 1/1 | 4.06 | 5.25 |
| 0/1 | 1/1 | 2.03 | 3.3 |
| 1/1 | 1/1 | 6.93 | 5.94 |
| 1/1 | 0/1 | 6.32 | 5.46 |
| 1/1 | 1/1 | 6.67 | 5.93 |
| 0/1 | 1/1 | 3.15 | 3.21 |
| 1/1 | 1/1 | 7.8 | 8.19 |
| 1/1 | 0/1 | 3.97 | 2.72 |
| 1/1 | 1/1 | 4.8 | 3.64 |
| 1/1 | 0/1 | 3.18 | 2.06 |
| 1/1 | 1/1 | 7.61 | 6.66 |
| 1/1 | 0/1 | 3.38 | 2.46 |
| 1/1 | 1/1 | 7.49 | 6.01 |
| 1/1 | 1/1 | 6.3 | 4.97 |
| 1/1 | 1/1 | 7.44 | 5.76 |
| 1/1 | 1/1 | 7.06 | 7.75 |
| 1/1 | 1/1 | 6.31 | 7.23 |
| 1/1 | 1/1 | 6.49 | 7.59 |
| 0/1 | 1/1 | 2.16 | 3.65 |
| 0/1 | 1/1 | 2.84 | 4.61 |
| 1/1 | 0/1 | 3.54 | 2.07 |
| 1/1 | 1/1 | 5.74 | 6.64 |
| 1/1 | 1/1 | 5.76 | 4.7 |
| 1/1 | 1/1 | 5.27 | 4.55 |
| 1/1 | 1/1 | 3.91 | 5.7 |
| 1/1 | 1/1 | 8.09 | 6.36 |
| 1/1 | 1/1 | 11.41 | 9.86 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.32 | 6.09 |
| 1/1 | 1/1 | 4.62 | 2.97 |
| 1/1 | 0/1 | 3.97 | 2.57 |
| 0/1 | 1/1 | 3.12 | 3.83 |
| 1/1 | 0/1 | 3.79 | 2.97 |
| 0/1 | 1/1 | 4.56 | 6.22 |
| 1/1 | 1/1 | 4.33 | 6.15 |
| 1/1 | 1/1 | 13.66 | 13.67 |
| 1/1 | 1/1 | 11.92 | 12.02 |
| 0/1 | 1/1 | 8.88 | 9.1 |
| 1/1 | 1/1 | 9.51 | 9.87 |
| 0/1 | 1/1 | 4.96 | 7.89 |
| 1/1 | 1/1 | 5.16 | 8.17 |
| 1/1 | 0/1 | 5.1 | 2.8 |
| 1/1 | 1/1 | 4.85 | 2.81 |
| 1/1 | 1/1 | 5.99 | 6.1 |
| 1/1 | 1/1 | 6.69 | 6.82 |
| 1/1 | 1/1 | 10.29 | 10.46 |
| 1/1 | 1/1 | 9.53 | 9.83 |
| 1/1 | 1/1 | 6.24 | 6.54 |
| 0/1 | 1/1 | 4.71 | 5.02 |
| 0/1 | 1/1 | 3.3 | 4.52 |
| 1/1 | 1/1 | 8.65 | 7.93 |
| 0/1 | 1/1 | 6.13 | 5.66 |
| 0/1 | 1/1 | 6.44 | 6.05 |
| 1/1 | 1/1 | 8.67 | 7.26 |
| 1/1 | 1/1 | 6.17 | 5.11 |
| 1/1 | 0/1 | 3.73 | 2.78 |
| 1/1 | 1/1 | 3.95 | 3.35 |
| 1/1 | 1/1 | 5.86 | 5.26 |
| 1/1 | 1/1 | 9.57 | 8.42 |
| 1/1 | 0/1 | 4.15 | 3.13 |
| 1/1 | 1/1 | 6.57 | 5.56 |
| 0/1 | 1/1 | 3.29 | 4.68 |
| 1/1 | 1/1 | 8.61 | 8.14 |
| 1/1 | 1/1 | 6.94 | 6.62 |
| 1/1 | 1/1 | 6.85 | 6.63 |
| 1/1 | 1/1 | 6.45 | 6.26 |
| 1/1 | 1/1 | 5.26 | 5.08 |
| 0/1 | 1/1 | 5.02 | 6.9 |
| 1/1 | 1/1 | 6.69 | 8.6 |
| 1/1 | 1/1 | 5.82 | 7.74 |
| 1/1 | 1/1 | 5.77 | 7.71 |
| 0/1 | 1/1 | 5.39 | 7.4 |
| 0/1 | 1/1 | 5.15 | 7.21 |
| 0/1 | 1/1 | 6.34 | 8.66 |
| 1/1 | 1/1 | 6.47 | 4.27 |
| 1/1 | 0/1 | 5.59 | 3.47 |
| 1/1 | 1/1 | 5.5 | 3.39 |
| 1/1 | 1/1 | 5.66 | 3.6 |
| 1/1 | 1/1 | 7.42 | 5.38 |
| 1/1 | 1/1 | 7.1 | 5.11 |
| 0/1 | 1/1 | 2.56 | 2.78 |
| 1/1 | 1/1 | 3.03 | 3.32 |
| 0/1 | 1/1 | 2.61 | 2.96 |
| 0/1 | 1/1 | 5.21 | 5.66 |
| 0/1 | 1/1 | 2.72 | 3.21 |
| 1/1 | 1/1 | 5.45 | 4.77 |

| | | | |
|-----|-----|------|------|
| 1/1 | 0/1 | 2.91 | 2.43 |
| 1/1 | 1/1 | 6.04 | 5.56 |
| 0/1 | 1/1 | 3.07 | 4.9 |
| 1/1 | 1/1 | 8.49 | 8.05 |
| 0/1 | 1/1 | 2.27 | 1.95 |
| 0/1 | 1/1 | 5.44 | 5.29 |
| 1/1 | 1/1 | 8.29 | 7.58 |
| 1/1 | 1/1 | 6.03 | 7.94 |
| 1/1 | 1/1 | 6.8 | 8.78 |
| 1/1 | 1/1 | 5.43 | 2.97 |
| 1/1 | 1/1 | 6.41 | 6.33 |
| 1/1 | 1/1 | 7.15 | 7.08 |
| 1/1 | 1/1 | 2.68 | 2.61 |
| 1/1 | 1/1 | 5.95 | 5.89 |
| 1/1 | 1/1 | 9.08 | 9.02 |
| 1/1 | 1/1 | 6.42 | 6.41 |
| 1/1 | 1/1 | 4.7 | 4.7 |
| 1/1 | 1/1 | 4.62 | 4.62 |
| 1/1 | 1/1 | 2.74 | 2.78 |
| 1/1 | 1/1 | 5.91 | 5.95 |
| 1/1 | 1/1 | 4.61 | 4.66 |
| 1/1 | 1/1 | 5.69 | 5.8 |
| 1/1 | 1/1 | 3.05 | 3.18 |
| 1/1 | 1/1 | 7.53 | 7.66 |
| 1/1 | 1/1 | 2.37 | 2.51 |
| 0/1 | 1/1 | 3.05 | 3.26 |
| 1/1 | 1/1 | 3.19 | 3.48 |
| 1/1 | 1/1 | 5.98 | 6.28 |
| 0/1 | 1/1 | 2.54 | 2.89 |
| 1/1 | 1/1 | 5.57 | 6.03 |
| 1/1 | 1/1 | 7.27 | 7.78 |
| 1/1 | 1/1 | 5.7 | 6.23 |
| 1/1 | 1/1 | 4.96 | 5.51 |
| 0/1 | 1/1 | 2.52 | 3.12 |
| 1/1 | 1/1 | 5.88 | 6.7 |
| 0/1 | 1/1 | 3.04 | 4.17 |
| 0/1 | 1/1 | 4.02 | 5.2 |
| 1/1 | 1/1 | 5.14 | 3.92 |
| 0/1 | 1/1 | 2.36 | 3.51 |
| 1/1 | 1/1 | 3.55 | 4.76 |
| 1/1 | 1/1 | 2.63 | 4.01 |
| 0/1 | 1/1 | 2.95 | 4.92 |
| 1/1 | 1/1 | 5.49 | 4.53 |
| 1/1 | 1/1 | 4.5 | 3.63 |
| 1/1 | 1/1 | 7.68 | 7.06 |
| 1/1 | 1/1 | 4.62 | 6.11 |
| 1/1 | 1/1 | 8 | 7.72 |
| 1/1 | 1/1 | 6.65 | 6.56 |
| 1/1 | 1/1 | 5.82 | 5.79 |
| 1/1 | 1/1 | 7.43 | 7.49 |
| 1/1 | 1/1 | 4.95 | 7.15 |
| 0/1 | 1/1 | 3.51 | 6.13 |
| 1/1 | 1/1 | 9.32 | 7.52 |
| 1/1 | 0/1 | 3.78 | 2.23 |
| 1/1 | 1/1 | 7.62 | 6.15 |
| 0/1 | 1/1 | 3.49 | 4.16 |
| 1/1 | 1/1 | 4.6 | 5.32 |
| 0/1 | 1/1 | 3.86 | 5.29 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.9 | 5.51 |
| 1/1 | 1/1 | 6.6 | 5.23 |
| 1/1 | 0/1 | 5.16 | 4.07 |
| 0/1 | 1/1 | 2.69 | 4.53 |
| 1/1 | 1/1 | 8.28 | 7.08 |
| 1/1 | 1/1 | 5.77 | 4.84 |
| 1/1 | 1/1 | 4.39 | 3.5 |
| 1/1 | 1/1 | 6.92 | 8.09 |
| 1/1 | 1/1 | 3.83 | 5.52 |
| 0/1 | 1/1 | 4.6 | 6.6 |
| 1/1 | 1/1 | 5.4 | 4.57 |
| 1/1 | 1/1 | 8.93 | 8.25 |
| 1/1 | 1/1 | 10.98 | 10.45 |
| 0/1 | 1/1 | 6.62 | 6.08 |
| 1/1 | 1/1 | 6.72 | 6.23 |
| 1/1 | 1/1 | 7.44 | 6.57 |
| 1/1 | 1/1 | 5.34 | 6.88 |
| 0/1 | 1/1 | 3.57 | 5.38 |
| 1/1 | 1/1 | 5.42 | 4.78 |
| 1/1 | 1/1 | 3.77 | 3.22 |
| 1/1 | 1/1 | 7.8 | 7.34 |
| 1/1 | 1/1 | 4.67 | 4.29 |
| 1/1 | 1/1 | 3.74 | 3.38 |
| 1/1 | 1/1 | 8.51 | 7.38 |
| 1/1 | 1/1 | 6.95 | 5.97 |
| 1/1 | 1/1 | 6.57 | 5.61 |
| 1/1 | 1/1 | 7.39 | 8.8 |
| 1/1 | 1/1 | 8.04 | 5.79 |
| 1/1 | 1/1 | 9.8 | 7.6 |
| 1/1 | 1/1 | 10.2 | 8.09 |
| 1/1 | 1/1 | 10.18 | 8.09 |
| 1/1 | 1/1 | 9.79 | 7.77 |
| 1/1 | 1/1 | 8.47 | 8.72 |
| 1/1 | 1/1 | 6.07 | 6.51 |
| 1/1 | 1/1 | 5.63 | 6.1 |
| 0/1 | 1/1 | 4.26 | 5.24 |
| 0/1 | 1/1 | 3.62 | 4.65 |
| 1/1 | 1/1 | 6.98 | 8.38 |
| 1/1 | 1/1 | 4.94 | 7.46 |
| 1/1 | 1/1 | 8.98 | 7.8 |
| 1/1 | 1/1 | 10.68 | 9.67 |
| 1/1 | 1/1 | 9.74 | 8.74 |
| 1/1 | 1/1 | 10.52 | 9.62 |
| 1/1 | 1/1 | 9.31 | 8.42 |
| 1/1 | 0/1 | 4.71 | 3.53 |
| 1/1 | 0/1 | 6.03 | 4.86 |
| 1/1 | 1/1 | 6.25 | 4.45 |
| 1/1 | 1/1 | 5.58 | 6.12 |
| 1/1 | 1/1 | 8.25 | 8.82 |
| 0/1 | 1/1 | 3.66 | 4.25 |
| 1/1 | 1/1 | 4.59 | 3.96 |
| 1/1 | 1/1 | 4 | 3.57 |
| 1/1 | 1/1 | 6.86 | 6.51 |
| 0/1 | 1/1 | 3.03 | 4.88 |
| 0/1 | 1/1 | 2.4 | 4.36 |
| 1/1 | 1/1 | 2.88 | 4.83 |
| 1/1 | 0/1 | 4.72 | 3.12 |
| 0/1 | 1/1 | 3.22 | 4.14 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 2.95 | 4 |
| 1/1 | 1/1 | 12.12 | 10.85 |
| 1/1 | 1/1 | 3.92 | 5.09 |
| 1/1 | 1/1 | 6.52 | 4.24 |
| 1/1 | 1/1 | 12.83 | 12.91 |
| 0/1 | 1/1 | 3.59 | 4.11 |
| 0/1 | 1/1 | 3.19 | 3.78 |
| 1/1 | 1/1 | 6.86 | 7.64 |
| 1/1 | 0/1 | 5.45 | 4.46 |
| 1/1 | 1/1 | 8.09 | 7.32 |
| 1/1 | 1/1 | 7.51 | 6.81 |
| 1/1 | 1/1 | 9.9 | 9.22 |
| 1/1 | 0/1 | 5.66 | 4.47 |
| 1/1 | 1/1 | 7.1 | 6.25 |
| 1/1 | 1/1 | 4.17 | 5.88 |
| 1/1 | 1/1 | 3.98 | 3.12 |
| 0/1 | 1/1 | 2.39 | 3.89 |
| 1/1 | 1/1 | 3.74 | 5.44 |
| 1/1 | 1/1 | 6.42 | 4.7 |
| 1/1 | 1/1 | 5.07 | 3.43 |
| 1/1 | 0/1 | 4.46 | 2.89 |
| 1/1 | 1/1 | 6.92 | 5.57 |
| 1/1 | 1/1 | 7.34 | 6.25 |
| 0/1 | 1/1 | 3.43 | 4.6 |
| 1/1 | 1/1 | 5.33 | 3.62 |
| 1/1 | 0/1 | 4.28 | 2.79 |
| 1/1 | 1/1 | 7.68 | 6.21 |
| 1/1 | 1/1 | 2.98 | 3.6 |
| 1/1 | 1/1 | 3.1 | 3.94 |
| 1/1 | 0/1 | 4.3 | 2.79 |
| 1/1 | 1/1 | 6.53 | 5.33 |
| 1/1 | 1/1 | 3.96 | 2.78 |
| 0/1 | 1/1 | 3 | 4.03 |
| 1/1 | 1/1 | 10.76 | 9.27 |
| 1/1 | 1/1 | 6 | 6.92 |
| 1/1 | 1/1 | 5.04 | 4.1 |
| 1/1 | 1/1 | 3.52 | 4.94 |
| 1/1 | 1/1 | 4.17 | 3.59 |
| 1/1 | 1/1 | 6.04 | 5.72 |
| 1/1 | 1/1 | 7.22 | 6.97 |
| 1/1 | 1/1 | 7.23 | 6.97 |
| 1/1 | 1/1 | 8.21 | 7.92 |
| 1/1 | 1/1 | 10.66 | 10.4 |
| 1/1 | 1/1 | 2.48 | 2.23 |
| 1/1 | 1/1 | 6.58 | 6.45 |
| 1/1 | 1/1 | 7.7 | 7.69 |
| 1/1 | 0/1 | 5.28 | 2.44 |
| 1/1 | 0/1 | 2.74 | 2.27 |
| 1/1 | 1/1 | 5.37 | 4.94 |
| 1/1 | 1/1 | 3.83 | 3.57 |
| 1/1 | 1/1 | 7.17 | 7.02 |
| 0/1 | 1/1 | 4.34 | 4.6 |
| 1/1 | 1/1 | 5.57 | 5.85 |
| 0/1 | 1/1 | 2.79 | 3.16 |
| 1/1 | 1/1 | 6.05 | 4.56 |
| 1/1 | 1/1 | 4.53 | 3.18 |
| 1/1 | 1/1 | 5.64 | 6.5 |
| 0/1 | 1/1 | 2.23 | 3.33 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.76 | 4.32 |
| 1/1 | 1/1 | 5.31 | 6.27 |
| 1/1 | 1/1 | 4.94 | 4.5 |
| 1/1 | 1/1 | 3.12 | 3 |
| 0/1 | 1/1 | 2.18 | 4.9 |
| 1/1 | 1/1 | 8.11 | 6.63 |
| 1/1 | 1/1 | 10.13 | 8.74 |
| 1/1 | 1/1 | 9.81 | 10.68 |
| 1/1 | 1/1 | 6.59 | 4.86 |
| 1/1 | 0/1 | 4.01 | 2.42 |
| 1/1 | 0/1 | 4.56 | 2.31 |
| 1/1 | 1/1 | 6.17 | 3.94 |
| 1/1 | 1/1 | 5.94 | 3.95 |
| 1/1 | 1/1 | 6.98 | 5.05 |
| 1/1 | 1/1 | 4.34 | 4.41 |
| 1/1 | 1/1 | 8.3 | 8.38 |
| 0/1 | 1/1 | 4.84 | 5.09 |
| 0/1 | 1/1 | 4.35 | 4.67 |
| 0/1 | 1/1 | 2.78 | 3.29 |
| 1/1 | 1/1 | 3.39 | 3.92 |
| 0/1 | 1/1 | 4.96 | 5.5 |
| 1/1 | 1/1 | 4.69 | 3.8 |
| 1/1 | 1/1 | 3.99 | 3.18 |
| 0/1 | 1/1 | 5.1 | 6.59 |
| 0/1 | 1/1 | 1.9 | 4.35 |
| 1/1 | 1/1 | 4.94 | 4.01 |
| 1/1 | 1/1 | 6.06 | 7.56 |
| 1/1 | 1/1 | 3.33 | 5.15 |
| 1/1 | 1/1 | 2.93 | 5.24 |
| 1/1 | 1/1 | 4.7 | 7.54 |
| 1/1 | 0/1 | 4.26 | 2.99 |
| 0/1 | 1/1 | 3.15 | 4.92 |
| 1/1 | 1/1 | 5.16 | 4.64 |
| 0/1 | 1/1 | 7.47 | 7.15 |
| 1/1 | 0/1 | 5.14 | 2.66 |
| 1/1 | 1/1 | 3.34 | 3.21 |
| 1/1 | 1/1 | 3.6 | 3.53 |
| 1/1 | 1/1 | 6.03 | 5.98 |
| 0/1 | 1/1 | 3.33 | 3.72 |
| 0/1 | 1/1 | 3.07 | 3.59 |
| 1/1 | 0/1 | 3.04 | 2.4 |
| 1/1 | 1/1 | 3.94 | 5.77 |
| 1/1 | 1/1 | 4.54 | 6.56 |
| 1/1 | 1/1 | 4.93 | 3.79 |
| 1/1 | 0/1 | 3.74 | 2.88 |
| 1/1 | 1/1 | 4.02 | 5.48 |
| 1/1 | 1/1 | 8.74 | 6.41 |
| 1/1 | 1/1 | 4.96 | 4.96 |
| 1/1 | 1/1 | 5.06 | 5.15 |
| 0/1 | 1/1 | 2.62 | 3.7 |
| 1/1 | 1/1 | 6.62 | 5.3 |
| 1/1 | 1/1 | 6.03 | 4.76 |
| 1/1 | 1/1 | 5.17 | 4.18 |
| 0/1 | 1/1 | 3.56 | 4.63 |
| 1/1 | 1/1 | 5.55 | 6.7 |
| 1/1 | 1/1 | 5.36 | 6.58 |
| 0/1 | 1/1 | 2.34 | 3.61 |
| 1/1 | 1/1 | 4.16 | 5.48 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.16 | 4.49 |
| 1/1 | 1/1 | 10.01 | 9.22 |
| 1/1 | 1/1 | 10.09 | 9.57 |
| 1/1 | 0/1 | 2.53 | 2.05 |
| 1/1 | 1/1 | 7.76 | 5.31 |
| 1/1 | 1/1 | 7.14 | 7.1 |
| 1/1 | 1/1 | 4.6 | 4.65 |
| 1/1 | 1/1 | 6.65 | 6.83 |
| 1/1 | 1/1 | 7.37 | 8.45 |
| 1/1 | 1/1 | 9.64 | 8.74 |
| 1/1 | 1/1 | 6.28 | 5.65 |
| 0/1 | 1/1 | 3.11 | 5.07 |
| 1/1 | 1/1 | 7.88 | 7.42 |
| 1/1 | 1/1 | 6.05 | 5.85 |
| 1/1 | 1/1 | 5.97 | 7.87 |
| 0/1 | 1/1 | 2.36 | 4.95 |
| 1/1 | 1/1 | 4.44 | 3.36 |
| 1/1 | 1/1 | 7.71 | 6.83 |
| 1/1 | 1/1 | 3.86 | 5.16 |
| 1/1 | 1/1 | 3.56 | 4.87 |
| 1/1 | 1/1 | 4.25 | 5.65 |
| 1/1 | 0/1 | 3.93 | 2.69 |
| 0/1 | 1/1 | 3.12 | 4.33 |
| 1/1 | 1/1 | 7.2 | 6.38 |
| 0/1 | 1/1 | 3.53 | 5.05 |
| 1/1 | 1/1 | 3.96 | 5.5 |
| 1/1 | 1/1 | 7.42 | 4.45 |
| 1/1 | 1/1 | 7.15 | 4.29 |
| 1/1 | 0/1 | 5.22 | 2.5 |
| 1/1 | 1/1 | 5.42 | 4.89 |
| 1/1 | 1/1 | 10.71 | 10.23 |
| 0/1 | 1/1 | 4.12 | 3.7 |
| 1/1 | 1/1 | 3.84 | 3.5 |
| 1/1 | 1/1 | 3.91 | 3.6 |
| 0/1 | 1/1 | 6.09 | 5.88 |
| 1/1 | 1/1 | 5.43 | 5.28 |
| 1/1 | 1/1 | 7.92 | 7.95 |
| 0/1 | 1/1 | 4.46 | 4.69 |
| 1/1 | 1/1 | 4.82 | 5.15 |
| 1/1 | 1/1 | 4.63 | 6.09 |
| 1/1 | 1/1 | 8.96 | 8.9 |
| 0/1 | 1/1 | 3.54 | 3.57 |
| 1/1 | 1/1 | 5.19 | 7.5 |
| 1/1 | 0/1 | 3.07 | 2.31 |
| 1/1 | 1/1 | 6.33 | 5.62 |
| 1/1 | 1/1 | 3.96 | 3.36 |
| 1/1 | 0/1 | 3.43 | 2.86 |
| 1/1 | 1/1 | 3.87 | 3.35 |
| 1/1 | 1/1 | 4.53 | 3.85 |
| 1/1 | 1/1 | 5.01 | 4.54 |
| 1/1 | 1/1 | 6.4 | 6.02 |
| 1/1 | 1/1 | 8.9 | 7.95 |
| 1/1 | 0/1 | 10.46 | 9.69 |
| 0/1 | 1/1 | 4.89 | 6.6 |
| 1/1 | 1/1 | 4.09 | 6.05 |
| 1/1 | 1/1 | 8.59 | 7.61 |
| 1/1 | 1/1 | 9.96 | 9.02 |
| 1/1 | 0/1 | 4.35 | 3.44 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 6.79 | 5.88 |
| 1/1 | 1/1 | 10.05 | 9.39 |
| 0/1 | 1/1 | 5.18 | 6.6 |
| 0/1 | 1/1 | 3.35 | 5.39 |
| 0/1 | 1/1 | 2.02 | 7.13 |
| 1/1 | 1/1 | 7.66 | 6.23 |
| 1/1 | 1/1 | 7.21 | 8.12 |
| 1/1 | 1/1 | 7.68 | 7.22 |
| 1/1 | 1/1 | 4.73 | 4.36 |
| 1/1 | 1/1 | 4.51 | 4.29 |
| 0/1 | 1/1 | 3.57 | 3.4 |
| 1/1 | 1/1 | 3.75 | 6 |
| 1/1 | 1/1 | 5.85 | 4.77 |
| 1/1 | 1/1 | 5.1 | 6.9 |
| 1/1 | 0/1 | 5.17 | 4.08 |
| 1/1 | 1/1 | 5.25 | 4.3 |
| 1/1 | 1/1 | 6.04 | 5.12 |
| 1/1 | 1/1 | 8.03 | 7.38 |
| 1/1 | 1/1 | 9.78 | 9.4 |
| 1/1 | 1/1 | 5.34 | 7.02 |
| 1/1 | 1/1 | 8.29 | 7.79 |
| 1/1 | 1/1 | 4.18 | 3.8 |
| 1/1 | 1/1 | 12.69 | 12.33 |
| 1/1 | 1/1 | 2.5 | 2.29 |
| 1/1 | 1/1 | 7.83 | 7.64 |
| 0/1 | 1/1 | 2.2 | 4.09 |
| 0/1 | 1/1 | 3.62 | 5.57 |
| 0/1 | 1/1 | 2.95 | 4.97 |
| 1/1 | 1/1 | 3.79 | 5.9 |
| 0/1 | 1/1 | 3.05 | 5.26 |
| 0/1 | 1/1 | 3.05 | 5.8 |
| 0/1 | 1/1 | 3.61 | 6.92 |
| 0/1 | 1/1 | 3.3 | 6.69 |
| 1/1 | 0/1 | 7.08 | 3.16 |
| 1/1 | 1/1 | 8.9 | 5.15 |
| 1/1 | 1/1 | 9.4 | 7.84 |
| 1/1 | 0/1 | 4.31 | 2.92 |
| 1/1 | 1/1 | 9.58 | 8.25 |
| 1/1 | 1/1 | 5.13 | 3.96 |
| 1/1 | 1/1 | 7.35 | 6.2 |
| 1/1 | 0/1 | 5.54 | 4.48 |
| 1/1 | 1/1 | 6.92 | 5.93 |
| 1/1 | 1/1 | 4.23 | 3.31 |
| 1/1 | 1/1 | 7.62 | 6.79 |
| 1/1 | 1/1 | 7.83 | 7.39 |
| 0/1 | 1/1 | 6.45 | 6.35 |
| 1/1 | 1/1 | 9.81 | 9.72 |
| 1/1 | 1/1 | 7.32 | 7.44 |
| 0/1 | 1/1 | 4 | 4.51 |
| 1/1 | 1/1 | 7.11 | 7.62 |
| 1/1 | 1/1 | 4.62 | 3.32 |
| 1/1 | 1/1 | 10.14 | 9.14 |
| 1/1 | 1/1 | 5.43 | 7.03 |
| 1/1 | 1/1 | 6.39 | 5.54 |
| 1/1 | 1/1 | 9.79 | 9.16 |
| 1/1 | 1/1 | 5.07 | 4.54 |
| 1/1 | 1/1 | 3.95 | 5.59 |
| 1/1 | 0/1 | 8.77 | 7.46 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.52 | 7.57 |
| 1/1 | 1/1 | 4.31 | 5.58 |
| 1/1 | 0/1 | 5.78 | 3.03 |
| 1/1 | 1/1 | 7.9 | 5.36 |
| 1/1 | 1/1 | 11.12 | 10.85 |
| 1/1 | 1/1 | 10.65 | 10.55 |
| 0/1 | 1/1 | 3.21 | 3.12 |
| 0/1 | 1/1 | 3.16 | 3.17 |
| 1/1 | 1/1 | 6.48 | 6.51 |
| 0/1 | 1/1 | 2.17 | 2.41 |
| 1/1 | 1/1 | 12.39 | 13.11 |
| 1/1 | 0/1 | 4.46 | 2.94 |
| 1/1 | 1/1 | 5.85 | 4.54 |
| 1/1 | 1/1 | 4.22 | 5.03 |
| 1/1 | 1/1 | 6.67 | 5.82 |
| 1/1 | 1/1 | 3.59 | 5.32 |
| 1/1 | 1/1 | 7.32 | 6.48 |
| 1/1 | 1/1 | 4.95 | 4.2 |
| 1/1 | 1/1 | 4.03 | 5.63 |
| 1/1 | 1/1 | 4.45 | 3.37 |
| 1/1 | 1/1 | 4.91 | 4.05 |
| 1/1 | 1/1 | 5.71 | 5.18 |
| 1/1 | 1/1 | 10.97 | 10.74 |
| 1/1 | 1/1 | 6.03 | 5.81 |
| 0/1 | 1/1 | 3.89 | 5.82 |
| 1/1 | 1/1 | 9.33 | 5.35 |
| 1/1 | 1/1 | 7.56 | 3.62 |
| 1/1 | 0/1 | 6.6 | 2.93 |
| 1/1 | 0/1 | 3.47 | 2.1 |
| 1/1 | 1/1 | 4.86 | 3.62 |
| 1/1 | 1/1 | 7.74 | 6.59 |
| 1/1 | 1/1 | 8.18 | 7.36 |
| 1/1 | 1/1 | 3.72 | 2.91 |
| 1/1 | 1/1 | 8.09 | 7.35 |
| 1/1 | 1/1 | 7.4 | 6.88 |
| 1/1 | 1/1 | 8.84 | 8.35 |
| 1/1 | 1/1 | 2.56 | 2.44 |
| 1/1 | 1/1 | 6.56 | 6.72 |
| 0/1 | 1/1 | 2.78 | 3.2 |
| 1/1 | 1/1 | 3.41 | 3.89 |
| 1/1 | 1/1 | 4.66 | 5.59 |
| 0/1 | 1/1 | 1.84 | 3.23 |
| 1/1 | 1/1 | 5.42 | 3.63 |
| 1/1 | 1/1 | 5.1 | 5.64 |
| 1/1 | 1/1 | 4.73 | 5.47 |
| 0/1 | 1/1 | 2.44 | 3.51 |
| 1/1 | 1/1 | 11.32 | 10.11 |
| 1/1 | 1/1 | 11.23 | 10.07 |
| 1/1 | 1/1 | 3.28 | 5.09 |
| 1/1 | 1/1 | 5.37 | 3.29 |
| 1/1 | 1/1 | 7.63 | 5.7 |
| 1/1 | 1/1 | 7.24 | 3.57 |
| 1/1 | 1/1 | 4.66 | 4.02 |
| 1/1 | 1/1 | 11.15 | 10.63 |
| 0/1 | 1/1 | 2.82 | 3.67 |
| 1/1 | 0/1 | 6.52 | 5.56 |
| 1/1 | 1/1 | 4.53 | 3.86 |
| 0/1 | 1/1 | 2.95 | 4.5 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 4.58 | 3.31 |
| 1/1 | 1/1 | 3.56 | 5.6 |
| 1/1 | 1/1 | 5.61 | 4.17 |
| 0/1 | 1/1 | 2.08 | 3.05 |
| 0/1 | 1/1 | 3.02 | 4.08 |
| 0/1 | 1/1 | 3.22 | 4.39 |
| 0/1 | 1/1 | 1.69 | 3.04 |
| 0/1 | 1/1 | 3.19 | 4.65 |
| 1/1 | 1/1 | 5.56 | 3.94 |
| 1/1 | 0/1 | 4.66 | 3.17 |
| 0/1 | 1/1 | 3.32 | 4.24 |
| 1/1 | 0/1 | 4.77 | 2.13 |
| 1/1 | 1/1 | 3.28 | 2.97 |
| 1/1 | 1/1 | 3.1 | 2.84 |
| 1/1 | 1/1 | 8.84 | 8.69 |
| 1/1 | 1/1 | 2.41 | 2.28 |
| 1/1 | 1/1 | 2.38 | 2.29 |
| 1/1 | 1/1 | 4.12 | 4.04 |
| 1/1 | 1/1 | 9.75 | 8.2 |
| 1/1 | 1/1 | 8.56 | 7.17 |
| 1/1 | 1/1 | 6.77 | 7.55 |
| 1/1 | 1/1 | 6.98 | 6.61 |
| 1/1 | 1/1 | 5.92 | 8.03 |
| 1/1 | 1/1 | 4.71 | 2.45 |
| 1/1 | 0/1 | 5.09 | 2.99 |
| 1/1 | 1/1 | 6.43 | 4.33 |
| 0/1 | 1/1 | 2.74 | 2.86 |
| 1/1 | 1/1 | 7.9 | 8.08 |
| 1/1 | 1/1 | 4.62 | 4.87 |
| 1/1 | 1/1 | 9.9 | 10.21 |
| 1/1 | 1/1 | 4.2 | 4.64 |
| 1/1 | 0/1 | 3.53 | 2.38 |
| 1/1 | 0/1 | 5.23 | 4.18 |
| 1/1 | 1/1 | 5.99 | 5.12 |
| 1/1 | 1/1 | 7.3 | 8.45 |
| 1/1 | 1/1 | 5.32 | 6.67 |
| 1/1 | 0/1 | 2.8 | 2.09 |
| 0/1 | 1/1 | 2.84 | 2.18 |
| 1/1 | 1/1 | 3.27 | 2.77 |
| 1/1 | 1/1 | 9.99 | 9.52 |
| 1/1 | 0/1 | 3.49 | 3.04 |
| 1/1 | 1/1 | 4.91 | 4.49 |
| 0/1 | 1/1 | 2.07 | 3.71 |
| 1/1 | 1/1 | 9.52 | 9.16 |
| 1/1 | 1/1 | 8.13 | 7.83 |
| 1/1 | 1/1 | 4.27 | 4.03 |
| 1/1 | 1/1 | 7.55 | 6.76 |
| 1/1 | 1/1 | 7.85 | 7.19 |
| 1/1 | 1/1 | 6.88 | 6.27 |
| 1/1 | 1/1 | 8.66 | 8.17 |
| 1/1 | 1/1 | 9.47 | 8.54 |
| 1/1 | 1/1 | 6.69 | 8.09 |
| 1/1 | 1/1 | 5.46 | 4.7 |
| 1/1 | 1/1 | 4.93 | 4.46 |
| 1/1 | 0/1 | 6.02 | 4.14 |
| 0/1 | 1/1 | 2.99 | 3.45 |
| 1/1 | 1/1 | 5.28 | 5.77 |
| 1/1 | 1/1 | 4.4 | 3.41 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.09 | 5.33 |
| 1/1 | 1/1 | 6.33 | 5.6 |
| 1/1 | 0/1 | 3.04 | 2.36 |
| 1/1 | 1/1 | 4.81 | 4.11 |
| 1/1 | 1/1 | 4.75 | 6.23 |
| 1/1 | 1/1 | 5.51 | 7.11 |
| 0/1 | 1/1 | 2.83 | 4.52 |
| 1/1 | 1/1 | 5.94 | 3.31 |
| 1/1 | 1/1 | 5.82 | 5.52 |
| 0/1 | 1/1 | 6.7 | 6.4 |
| 1/1 | 1/1 | 7.52 | 7.26 |
| 0/1 | 1/1 | 4.01 | 3.87 |
| 1/1 | 1/1 | 8.05 | 8.02 |
| 1/1 | 1/1 | 5.91 | 5.99 |
| 1/1 | 1/1 | 11.3 | 11.4 |
| 0/1 | 1/1 | 2.34 | 2.46 |
| 0/1 | 1/1 | 3.11 | 3.28 |
| 1/1 | 1/1 | 7.58 | 7.82 |
| 0/1 | 1/1 | 6.02 | 6.27 |
| 1/1 | 1/1 | 7.35 | 7.69 |
| 1/1 | 1/1 | 7.83 | 8.18 |
| 1/1 | 1/1 | 8.41 | 8.82 |
| 1/1 | 1/1 | 8.13 | 8.69 |
| 0/1 | 1/1 | 6.58 | 7.3 |
| 1/1 | 1/1 | 7.48 | 6.9 |
| 0/1 | 1/1 | 3.99 | 5.85 |
| 0/1 | 1/1 | 2.69 | 5.36 |
| 1/1 | 1/1 | 4.98 | 3.07 |
| 1/1 | 1/1 | 9.11 | 9.6 |
| 1/1 | 1/1 | 4.59 | 3.02 |
| 0/1 | 1/1 | 2.23 | 3.09 |
| 1/1 | 1/1 | 3.77 | 4.68 |
| 1/1 | 1/1 | 3.27 | 4.19 |
| 1/1 | 1/1 | 6.89 | 5.88 |
| 1/1 | 1/1 | 4.95 | 3.99 |
| 1/1 | 1/1 | 6.08 | 7.43 |
| 1/1 | 1/1 | 4.29 | 5.74 |
| 1/1 | 1/1 | 4.68 | 6.73 |
| 1/1 | 1/1 | 6.09 | 4.81 |
| 1/1 | 1/1 | 10.01 | 11.47 |
| 1/1 | 1/1 | 6.5 | 5.61 |
| 1/1 | 1/1 | 6.43 | 5.83 |
| 0/1 | 1/1 | 2.05 | 3.52 |
| 1/1 | 1/1 | 4.58 | 6.14 |
| 1/1 | 1/1 | 4.32 | 3.84 |
| 1/1 | 1/1 | 8.92 | 8.6 |
| 1/1 | 1/1 | 6.56 | 6.24 |
| 1/1 | 1/1 | 6.2 | 6.01 |
| 1/1 | 1/1 | 5.27 | 5.1 |
| 1/1 | 1/1 | 5.61 | 5.39 |
| 1/1 | 1/1 | 5.53 | 5.44 |
| 1/1 | 1/1 | 5.84 | 5.77 |
| 1/1 | 1/1 | 10.3 | 10.24 |
| 1/1 | 1/1 | 7.32 | 7.28 |
| 1/1 | 1/1 | 6.1 | 6.09 |
| 1/1 | 1/1 | 6.55 | 6.55 |
| 0/1 | 1/1 | 4.62 | 4.62 |
| 1/1 | 1/1 | 6.82 | 6.85 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 9.47 | 9.5 |
| 1/1 | 1/1 | 7.77 | 7.2 |
| 1/1 | 1/1 | 7.32 | 6.85 |
| 1/1 | 1/1 | 8.19 | 7.77 |
| 1/1 | 1/1 | 6.46 | 5.77 |
| 1/1 | 1/1 | 4.21 | 3.76 |
| 1/1 | 0/1 | 3.29 | 2.41 |
| 1/1 | 1/1 | 6.97 | 6.18 |
| 1/1 | 1/1 | 2.85 | 2.18 |
| 1/1 | 1/1 | 3.27 | 2.66 |
| 0/1 | 1/1 | 4.17 | 5.63 |
| 1/1 | 1/1 | 7.77 | 7.38 |
| 1/1 | 1/1 | 3.03 | 2.76 |
| 1/1 | 1/1 | 7.8 | 7.59 |
| 1/1 | 1/1 | 8.83 | 8.63 |
| 1/1 | 0/1 | 5.03 | 2.46 |
| 1/1 | 1/1 | 6.6 | 4.23 |
| 1/1 | 0/1 | 5.39 | 3.03 |
| 1/1 | 0/1 | 4.76 | 2.45 |
| 1/1 | 1/1 | 3 | 2.77 |
| 0/1 | 1/1 | 3.06 | 2.84 |
| 1/1 | 1/1 | 4.56 | 4.42 |
| 1/1 | 1/1 | 4.3 | 4.29 |
| 1/1 | 1/1 | 4.11 | 4.11 |
| 0/1 | 1/1 | 2.11 | 2.24 |
| 1/1 | 1/1 | 5.96 | 6.11 |
| 0/1 | 1/1 | 2.5 | 2.66 |
| 1/1 | 1/1 | 3.7 | 3.88 |
| 0/1 | 1/1 | 2.81 | 2.99 |
| 1/1 | 1/1 | 4.98 | 5.21 |
| 1/1 | 1/1 | 7.56 | 7.81 |
| 0/1 | 1/1 | 3.41 | 4.02 |
| 0/1 | 1/1 | 3.57 | 4.66 |
| 1/1 | 1/1 | 5.64 | 4.07 |
| 1/1 | 0/1 | 4.08 | 2.72 |
| 1/1 | 1/1 | 3.14 | 3.89 |
| 1/1 | 1/1 | 2.97 | 4.16 |
| 0/1 | 1/1 | 2.35 | 3.85 |
| 1/1 | 1/1 | 4.41 | 3.86 |
| 1/1 | 1/1 | 3.06 | 2.56 |
| 1/1 | 1/1 | 8.86 | 8.44 |
| 1/1 | 1/1 | 6.05 | 5.7 |
| 1/1 | 1/1 | 3.25 | 5.03 |
| 1/1 | 1/1 | 4.13 | 5.93 |
| 0/1 | 1/1 | 2.31 | 4.17 |
| 1/1 | 1/1 | 6.85 | 8.74 |
| 1/1 | 0/1 | 3.97 | 3.23 |
| 1/1 | 1/1 | 9.94 | 9.46 |
| 1/1 | 1/1 | 5.43 | 5.01 |
| 0/1 | 1/1 | 2.51 | 4.53 |
| 1/1 | 1/1 | 4 | 6.22 |
| 1/1 | 1/1 | 7.4 | 7.1 |
| 0/1 | 1/1 | 3.31 | 5.88 |
| 1/1 | 1/1 | 4.43 | 3.88 |
| 1/1 | 1/1 | 5.92 | 5.59 |
| 1/1 | 0/1 | 3.34 | 2.22 |
| 1/1 | 1/1 | 4.07 | 2.97 |
| 1/1 | 1/1 | 6.19 | 5.22 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.44 | 4.59 |
| 1/1 | 1/1 | 3.13 | 2.49 |
| 1/1 | 1/1 | 5.82 | 5.25 |
| 1/1 | 1/1 | 5.26 | 7.01 |
| 0/1 | 1/1 | 3.29 | 5.26 |
| 1/1 | 1/1 | 3.11 | 5.34 |
| 1/1 | 1/1 | 3.9 | 3.4 |
| 1/1 | 0/1 | 2.48 | 2.05 |
| 1/1 | 1/1 | 6.17 | 5.78 |
| 1/1 | 1/1 | 5.39 | 7.32 |
| 1/1 | 1/1 | 5.76 | 4.23 |
| 1/1 | 1/1 | 5.21 | 3.73 |
| 1/1 | 0/1 | 5.4 | 3.95 |
| 1/1 | 1/1 | 8.06 | 6.95 |
| 1/1 | 1/1 | 8.36 | 7.28 |
| 1/1 | 0/1 | 5.32 | 4.27 |
| 1/1 | 1/1 | 4.68 | 3.76 |
| 1/1 | 1/1 | 5.45 | 4.62 |
| 0/1 | 1/1 | 4.37 | 5.56 |
| 0/1 | 1/1 | 4.52 | 5.78 |
| 0/1 | 1/1 | 2.81 | 4.27 |
| 0/1 | 1/1 | 3.51 | 5.25 |
| 1/1 | 1/1 | 6.15 | 5.38 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 7.81 | 7.16 |
| 1/1 | 1/1 | 5.45 | 4.96 |
| 1/1 | 1/1 | 8.06 | 6.95 |
| 1/1 | 1/1 | 8.36 | 7.28 |
| 1/1 | 0/1 | 5.32 | 4.27 |
| 1/1 | 1/1 | 4.68 | 3.76 |
| 1/1 | 1/1 | 5.45 | 4.62 |
| 0/1 | 1/1 | 4.37 | 5.56 |
| 0/1 | 1/1 | 4.52 | 5.78 |
| 0/1 | 1/1 | 2.81 | 4.27 |
| 0/1 | 1/1 | 3.51 | 5.25 |
| 1/1 | 1/1 | 7.9 | 7.12 |
| 1/1 | 1/1 | 5.17 | 4.41 |
| 1/1 | 1/1 | 8.46 | 7.81 |
| 1/1 | 1/1 | 3.39 | 2.54 |
| 1/1 | 0/1 | 3.49 | 2.73 |
| 0/1 | 1/1 | 2.35 | 3.91 |
| 1/1 | 0/1 | 3.87 | 2.85 |
| 1/1 | 1/1 | 7.01 | 6.14 |
| 1/1 | 1/1 | 5.04 | 3.85 |
| 1/1 | 1/1 | 6.76 | 5.66 |
| 0/1 | 1/1 | 3.61 | 5.84 |
| 0/1 | 1/1 | 3.71 | 3.37 |
| 1/1 | 1/1 | 3.69 | 3.37 |
| 1/1 | 1/1 | 7.12 | 6.86 |
| 1/1 | 1/1 | 5.2 | 5.07 |
| 1/1 | 0/1 | 5.92 | 3.17 |
| 1/1 | 1/1 | 6.72 | 6.5 |
| 1/1 | 1/1 | 10.75 | 10.62 |
| 1/1 | 1/1 | 5.72 | 5.78 |
| 0/1 | 1/1 | 5.98 | 6.26 |
| 1/1 | 1/1 | 9.07 | 8.2 |
| 1/1 | 1/1 | 6.71 | 5.96 |
| 1/1 | 1/1 | 4.7 | 6.32 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.99 | 6.66 |
| 0/1 | 1/1 | 2.51 | 4.4 |
| 1/1 | 1/1 | 4.18 | 2.75 |
| 0/1 | 1/1 | 3.01 | 3.89 |
| 1/1 | 1/1 | 9.34 | 8.58 |
| 1/1 | 1/1 | 4.07 | 3.51 |
| 1/1 | 1/1 | 6.33 | 5.84 |
| 1/1 | 1/1 | 5.38 | 3.43 |
| 1/1 | 1/1 | 6.38 | 7.2 |
| 1/1 | 0/1 | 5.41 | 4.06 |
| 1/1 | 1/1 | 4.98 | 6.52 |
| 1/1 | 1/1 | 4.59 | 4.21 |
| 1/1 | 1/1 | 6.41 | 6.32 |
| 1/1 | 0/1 | 4.49 | 3.56 |
| 1/1 | 1/1 | 12.97 | 12.18 |
| 1/1 | 1/1 | 8.18 | 7.48 |
| 1/1 | 1/1 | 8.66 | 8.55 |
| 1/1 | 1/1 | 3.94 | 3.89 |
| 0/1 | 1/1 | 4.01 | 4 |
| 1/1 | 1/1 | 3.3 | 3.43 |
| 1/1 | 1/1 | 6.5 | 8.76 |
| 1/1 | 1/1 | 3.45 | 3.36 |
| 1/1 | 1/1 | 4.98 | 4.97 |
| 1/1 | 1/1 | 4.45 | 4.6 |
| 1/1 | 1/1 | 5.48 | 7.93 |
| 0/1 | 1/1 | 4.24 | 7.8 |
| 1/1 | 1/1 | 3.46 | 7.54 |
| 1/1 | 0/1 | 3.06 | 2.01 |
| 1/1 | 1/1 | 3.31 | 5.01 |
| 1/1 | 1/1 | 3.09 | 5.37 |
| 1/1 | 0/1 | 4.5 | 3.8 |
| 1/1 | 0/1 | 2.48 | 1.94 |
| 1/1 | 1/1 | 6.24 | 5.8 |
| 1/1 | 0/1 | 7.23 | 6.53 |
| 1/1 | 1/1 | 4.63 | 4.04 |
| 0/1 | 1/1 | 6.2 | 5.76 |
| 1/1 | 1/1 | 7.29 | 6.85 |
| 1/1 | 1/1 | 3.81 | 5.43 |
| 1/1 | 1/1 | 4.8 | 6.59 |
| 1/1 | 1/1 | 4.35 | 7.03 |
| 1/1 | 1/1 | 7.25 | 6.25 |
| 1/1 | 1/1 | 5.61 | 4.63 |
| 1/1 | 1/1 | 10.7 | 9.74 |
| 1/1 | 1/1 | 7.28 | 5.98 |
| 0/1 | 1/1 | 2.69 | 3.78 |
| 0/1 | 1/1 | 4.5 | 5.66 |
| 0/1 | 1/1 | 2.66 | 4.13 |
| 1/1 | 0/1 | 10.13 | 9.42 |
| 1/1 | 0/1 | 3.45 | 2.77 |
| 1/1 | 1/1 | 5.67 | 5.12 |
| 0/1 | 1/1 | 2.91 | 5.41 |
| 1/1 | 0/1 | 3.99 | 2.78 |
| 1/1 | 1/1 | 5.23 | 6.51 |
| 1/1 | 1/1 | 3.57 | 2.63 |
| 1/1 | 1/1 | 4.9 | 6.28 |
| 0/1 | 1/1 | 2.53 | 4.49 |
| 1/1 | 0/1 | 4.69 | 2.53 |
| 0/1 | 1/1 | 2.19 | 2.34 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.17 | 4.34 |
| 1/1 | 1/1 | 3.93 | 4.2 |
| 1/1 | 1/1 | 5.48 | 5.92 |
| 1/1 | 1/1 | 4.27 | 4.87 |
| 1/1 | 1/1 | 6.52 | 3.41 |
| 1/1 | 1/1 | 8.37 | 7.61 |
| 0/1 | 1/1 | 6.86 | 6.85 |
| 1/1 | 1/1 | 8.38 | 7.9 |
| 1/1 | 1/1 | 6.76 | 6.33 |
| 1/1 | 1/1 | 6.26 | 8.16 |
| 0/1 | 1/1 | 3.08 | 5.12 |
| 1/1 | 1/1 | 4.28 | 6.84 |
| 0/1 | 1/1 | 3.74 | 6.64 |
| 1/1 | 1/1 | 2.74 | 6.36 |
| 1/1 | 1/1 | 9.12 | 7.9 |
| 1/1 | 1/1 | 7.28 | 6.09 |
| 1/1 | 0/1 | 5.29 | 4.19 |
| 1/1 | 0/1 | 3.66 | 2.94 |
| 1/1 | 1/1 | 3.81 | 5.74 |
| 1/1 | 1/1 | 5.15 | 3.95 |
| 1/1 | 1/1 | 6.65 | 5.45 |
| 1/1 | 0/1 | 7.52 | 6.57 |
| 1/1 | 1/1 | 5.15 | 3.95 |
| 1/1 | 1/1 | 6.65 | 5.45 |
| 1/1 | 0/1 | 7.52 | 6.57 |
| 1/1 | 1/1 | 7.02 | 6.87 |
| 1/1 | 1/1 | 8.09 | 8.08 |
| 1/1 | 1/1 | 3.35 | 3.34 |
| 1/1 | 1/1 | 8.98 | 9.01 |
| 0/1 | 1/1 | 5.89 | 5.96 |
| 1/1 | 1/1 | 4.29 | 3.63 |
| 1/1 | 1/1 | 3.69 | 3.15 |
| 1/1 | 0/1 | 6.59 | 5.8 |
| 1/1 | 1/1 | 11.75 | 11.17 |
| 1/1 | 1/1 | 6.1 | 5.57 |
| 1/1 | 1/1 | 4.75 | 6.31 |
| 1/1 | 1/1 | 3.75 | 5.34 |
| 1/1 | 1/1 | 4.26 | 5.91 |
| 1/1 | 0/1 | 5.47 | 4.66 |
| 1/1 | 1/1 | 7.96 | 7.17 |
| 1/1 | 1/1 | 7.37 | 6.51 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 1/1 | 7.82 | 6.81 |
| 1/1 | 1/1 | 3.4 | 5.2 |
| 1/1 | 1/1 | 7.45 | 6.56 |
| 1/1 | 1/1 | 7.42 | 6.79 |
| 0/1 | 1/1 | 3.72 | 5.39 |
| 0/1 | 1/1 | 3.52 | 5.19 |
| 1/1 | 1/1 | 4.98 | 7.58 |
| 1/1 | 0/1 | 4.95 | 3.7 |
| 1/1 | 1/1 | 9.06 | 7.92 |
| 1/1 | 1/1 | 5.61 | 6.74 |
| 1/1 | 1/1 | 5.1 | 6.52 |
| 1/1 | 1/1 | 9.32 | 5.61 |
| 1/1 | 1/1 | 8.77 | 5.19 |
| 1/1 | 1/1 | 8.61 | 7.42 |
| 1/1 | 1/1 | 7.66 | 6.7 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.36 | 3.41 |
| 1/1 | 1/1 | 6.12 | 5.43 |
| 0/1 | 1/1 | 6.71 | 6.49 |
| 1/1 | 1/1 | 5.81 | 5.61 |
| 0/1 | 1/1 | 2.11 | 2.12 |
| 1/1 | 1/1 | 5.78 | 5.1 |
| 1/1 | 1/1 | 4.05 | 5.67 |
| 1/1 | 1/1 | 5.18 | 7.16 |
| 1/1 | 1/1 | 5.49 | 7.5 |
| 0/1 | 1/1 | 1.97 | 4.66 |
| 0/1 | 1/1 | 2.25 | 5.62 |
| 1/1 | 1/1 | 9.23 | 8.45 |
| 1/1 | 1/1 | 9.23 | 8.66 |
| 1/1 | 1/1 | 3.74 | 5.71 |
| 1/1 | 1/1 | 6.7 | 6.32 |
| 0/1 | 1/1 | 3.48 | 5.41 |
| 1/1 | 1/1 | 3.4 | 5.4 |
| 1/1 | 1/1 | 8.92 | 5.65 |
| 1/1 | 1/1 | 7.72 | 6.87 |
| 1/1 | 1/1 | 9.33 | 8.51 |
| 1/1 | 1/1 | 9.51 | 8.77 |
| 1/1 | 1/1 | 9.99 | 9.49 |
| 0/1 | 1/1 | 5.18 | 4.85 |
| 1/1 | 1/1 | 12.19 | 11.88 |
| 1/1 | 1/1 | 7.11 | 6.89 |
| 1/1 | 1/1 | 4.06 | 6.41 |
| 1/1 | 1/1 | 6.34 | 6.2 |
| 1/1 | 1/1 | 5.42 | 8.09 |
| 1/1 | 1/1 | 5.44 | 8.76 |
| 1/1 | 1/1 | 5.03 | 8.71 |
| 0/1 | 1/1 | 4.25 | 8.66 |
| 1/1 | 1/1 | 10.27 | 9.52 |
| 1/1 | 1/1 | 3.06 | 5.29 |
| 1/1 | 1/1 | 7.43 | 7.34 |
| 0/1 | 1/1 | 2.58 | 5.16 |
| 1/1 | 0/1 | 2.67 | 2.12 |
| 1/1 | 1/1 | 3.54 | 3.19 |
| 1/1 | 0/1 | 6.67 | 2.66 |
| 1/1 | 0/1 | 5.45 | 3.8 |
| 1/1 | 1/1 | 4.57 | 3.16 |
| 1/1 | 0/1 | 3.85 | 2.46 |
| 1/1 | 1/1 | 6.3 | 5.13 |
| 1/1 | 0/1 | 4.35 | 3.26 |
| 1/1 | 1/1 | 4.63 | 3.6 |
| 1/1 | 0/1 | 5.12 | 4.19 |
| 1/1 | 0/1 | 4.49 | 3.59 |
| 1/1 | 0/1 | 3.66 | 2.81 |
| 1/1 | 1/1 | 5.42 | 4.66 |
| 1/1 | 1/1 | 4.22 | 3.48 |
| 0/1 | 1/1 | 5.54 | 4.84 |
| 1/1 | 1/1 | 6.15 | 5.54 |
| 1/1 | 1/1 | 6.53 | 5.95 |
| 1/1 | 1/1 | 7.32 | 6.75 |
| 0/1 | 1/1 | 2.99 | 2.63 |
| 1/1 | 1/1 | 3.84 | 3.55 |
| 1/1 | 1/1 | 5.91 | 5.85 |
| 1/1 | 1/1 | 7.13 | 7.24 |
| 1/1 | 1/1 | 12.54 | 12.67 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.8 | 6.99 |
| 0/1 | 1/1 | 3.09 | 3.32 |
| 1/1 | 1/1 | 8.61 | 8.92 |
| 1/1 | 0/1 | 4.39 | 2.8 |
| 1/1 | 1/1 | 5.52 | 6.26 |
| 1/1 | 1/1 | 6.17 | 6.98 |
| 1/1 | 1/1 | 7.84 | 4.41 |
| 1/1 | 1/1 | 7.07 | 3.73 |
| 1/1 | 1/1 | 6.71 | 3.38 |
| 1/1 | 1/1 | 5.58 | 4.43 |
| 1/1 | 1/1 | 7.37 | 6.3 |
| 1/1 | 0/1 | 3.56 | 2.6 |
| 1/1 | 1/1 | 5.07 | 4.2 |
| 1/1 | 1/1 | 7.45 | 6.65 |
| 1/1 | 1/1 | 3.58 | 2.83 |
| 1/1 | 1/1 | 8.25 | 7.52 |
| 1/1 | 0/1 | 2.96 | 2.45 |
| 1/1 | 1/1 | 9.14 | 8.67 |
| 1/1 | 1/1 | 3.73 | 3.41 |
| 1/1 | 1/1 | 6.16 | 5.93 |
| 0/1 | 1/1 | 2.82 | 2.79 |
| 1/1 | 1/1 | 3.02 | 3.21 |
| 1/1 | 1/1 | 3.16 | 3.64 |
| 1/1 | 1/1 | 4.27 | 3.31 |
| 1/1 | 1/1 | 5.45 | 4.73 |
| 1/1 | 1/1 | 5.2 | 6.68 |
| 1/1 | 0/1 | 5.48 | 3.58 |
| 1/1 | 0/1 | 6.19 | 4.45 |
| 1/1 | 1/1 | 6.1 | 4.46 |
| 0/1 | 1/1 | 4.37 | 5 |
| 1/1 | 1/1 | 6.45 | 7.41 |
| 1/1 | 0/1 | 4.86 | 3.12 |
| 1/1 | 1/1 | 5.31 | 3.68 |
| 1/1 | 1/1 | 4.88 | 3.31 |
| 0/1 | 1/1 | 3.14 | 3.8 |
| 1/1 | 1/1 | 6.05 | 5.24 |
| 1/1 | 0/1 | 3.02 | 2.23 |
| 1/1 | 1/1 | 4.61 | 4.09 |
| 1/1 | 1/1 | 6.77 | 5.89 |
| 1/1 | 1/1 | 6.81 | 5.97 |
| 1/1 | 1/1 | 6.23 | 5.45 |
| 1/1 | 0/1 | 4.92 | 3.72 |
| 1/1 | 1/1 | 5.68 | 4.59 |
| 1/1 | 1/1 | 3.2 | 4.34 |
| 1/1 | 1/1 | 4.83 | 6.74 |
| 1/1 | 1/1 | 4.01 | 2.64 |
| 1/1 | 1/1 | 5.84 | 4.66 |
| 1/1 | 1/1 | 2.26 | 3.39 |
| 1/1 | 1/1 | 6.02 | 7.16 |
| 0/1 | 1/1 | 2.94 | 4.35 |
| 1/1 | 1/1 | 8.17 | 6.45 |
| 1/1 | 1/1 | 7.89 | 6.31 |
| 1/1 | 1/1 | 7.01 | 5.48 |
| 1/1 | 1/1 | 9.4 | 7.91 |
| 1/1 | 1/1 | 7.62 | 6.13 |
| 1/1 | 1/1 | 6.44 | 4.93 |
| 1/1 | 1/1 | 6.26 | 4.96 |
| 1/1 | 1/1 | 3.71 | 2.48 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 5.11 | 5.91 |
| 0/1 | 1/1 | 2.24 | 3.05 |
| 1/1 | 1/1 | 6.99 | 7.8 |
| 1/1 | 1/1 | 5.11 | 6.09 |
| 1/1 | 1/1 | 5.19 | 6.3 |
| 1/1 | 1/1 | 4.59 | 5.71 |
| 0/1 | 1/1 | 2.66 | 3.8 |
| 1/1 | 1/1 | 4.93 | 4.55 |
| 1/1 | 1/1 | 3.85 | 6.85 |
| 1/1 | 1/1 | 6.51 | 5.62 |
| 1/1 | 1/1 | 5.2 | 4.51 |
| 0/1 | 1/1 | 3.27 | 5.43 |
| 1/1 | 0/1 | 4.06 | 3.13 |
| 1/1 | 1/1 | 7.56 | 6.83 |
| 1/1 | 1/1 | 4.77 | 4.11 |
| 0/1 | 1/1 | 4.06 | 5.58 |
| 0/1 | 1/1 | 2.85 | 4.51 |
| 1/1 | 1/1 | 6.21 | 6.14 |
| 1/1 | 1/1 | 6.86 | 9.24 |
| 0/1 | 1/1 | 3.4 | 5.8 |
| 1/1 | 1/1 | 6.3 | 5.04 |
| 1/1 | 1/1 | 6.14 | 5.1 |
| 1/1 | 1/1 | 7.5 | 5.97 |
| 1/1 | 1/1 | 9.81 | 10.68 |
| 1/1 | 1/1 | 8.47 | 9.62 |
| 0/1 | 1/1 | 5.72 | 5.24 |
| 1/1 | 1/1 | 8.26 | 7.87 |
| 0/1 | 1/1 | 5.83 | 5.58 |
| 1/1 | 1/1 | 9.38 | 9.18 |
| 1/1 | 1/1 | 6.46 | 5.65 |
| 1/1 | 1/1 | 4.75 | 6.32 |
| 0/1 | 1/1 | 3.48 | 5.53 |
| 1/1 | 0/1 | 4.86 | 3.76 |
| 1/1 | 0/1 | 4.78 | 3.79 |
| 1/1 | 1/1 | 6.15 | 5.02 |
| 1/1 | 1/1 | 3.35 | 2.41 |
| 1/1 | 1/1 | 5.61 | 6.83 |
| 1/1 | 1/1 | 6.52 | 8.07 |
| 1/1 | 1/1 | 2.85 | 4.44 |
| 1/1 | 1/1 | 8.06 | 6.95 |
| 1/1 | 1/1 | 4.68 | 3.76 |
| 1/1 | 1/1 | 5.45 | 4.62 |
| 0/1 | 1/1 | 4.37 | 5.56 |
| 0/1 | 1/1 | 4.52 | 5.78 |
| 0/1 | 1/1 | 2.81 | 4.27 |
| 0/1 | 1/1 | 3.51 | 5.25 |
| 1/1 | 1/1 | 8.06 | 6.95 |
| 1/1 | 1/1 | 8.36 | 7.28 |
| 1/1 | 0/1 | 5.32 | 4.27 |
| 1/1 | 1/1 | 4.68 | 3.76 |
| 1/1 | 1/1 | 5.45 | 4.62 |
| 0/1 | 1/1 | 4.37 | 5.56 |
| 0/1 | 1/1 | 4.52 | 5.78 |
| 0/1 | 1/1 | 2.81 | 4.27 |
| 0/1 | 1/1 | 3.51 | 5.25 |
| 1/1 | 1/1 | 6.15 | 5.38 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 7.81 | 7.16 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.45 | 4.96 |
| 1/1 | 1/1 | 2.92 | 2.66 |
| 1/1 | 1/1 | 5.52 | 5.33 |
| 0/1 | 1/1 | 2.58 | 4.69 |
| 1/1 | 1/1 | 3.91 | 6.1 |
| 1/1 | 1/1 | 5.1 | 7.32 |
| 1/1 | 1/1 | 6.15 | 5.41 |
| 1/1 | 1/1 | 5.91 | 5.21 |
| 0/1 | 1/1 | 3.44 | 5 |
| 0/1 | 1/1 | 2.28 | 3.86 |
| 0/1 | 1/1 | 3.42 | 5.15 |
| 1/1 | 1/1 | 7.26 | 4.76 |
| 1/1 | 1/1 | 3.64 | 3.46 |
| 1/1 | 1/1 | 4.97 | 4.79 |
| 1/1 | 1/1 | 4.93 | 4.84 |
| 1/1 | 1/1 | 7.69 | 7.64 |
| 1/1 | 1/1 | 4.97 | 5 |
| 0/1 | 1/1 | 3.34 | 3.72 |
| 1/1 | 0/1 | 3.99 | 3.08 |
| 1/1 | 1/1 | 8.47 | 7.8 |
| 0/1 | 1/1 | 2.76 | 4.3 |
| 1/1 | 1/1 | 5.71 | 7.27 |
| 0/1 | 1/1 | 2.63 | 4.6 |
| 1/1 | 1/1 | 10.06 | 9.82 |
| 1/1 | 1/1 | 6.86 | 6.66 |
| 0/1 | 1/1 | 5.61 | 5.51 |
| 1/1 | 1/1 | 4.71 | 4.7 |
| 1/1 | 1/1 | 7.8 | 6.14 |
| 1/1 | 1/1 | 7.9 | 6.32 |
| 1/1 | 1/1 | 9.1 | 7.53 |
| 1/1 | 1/1 | 6.48 | 4.92 |
| 1/1 | 1/1 | 10.57 | 9.05 |
| 1/1 | 1/1 | 9.18 | 7.7 |
| 1/1 | 1/1 | 10.8 | 9.35 |
| 1/1 | 1/1 | 8.1 | 6.69 |
| 1/1 | 0/1 | 6.65 | 5.25 |
| 1/1 | 1/1 | 9.99 | 8.61 |
| 1/1 | 1/1 | 11.04 | 9.66 |
| 1/1 | 1/1 | 5.86 | 6.55 |
| 1/1 | 1/1 | 3.55 | 2.95 |
| 1/1 | 1/1 | 5.33 | 4.72 |
| 1/1 | 0/1 | 3.7 | 3.17 |
| 1/1 | 1/1 | 3.64 | 3.21 |
| 1/1 | 1/1 | 5.76 | 5.34 |
| 1/1 | 1/1 | 5.36 | 4.96 |
| 1/1 | 1/1 | 5.67 | 5.32 |
| 0/1 | 1/1 | 3.08 | 5 |
| 1/1 | 1/1 | 2.95 | 5.11 |
| 1/1 | 1/1 | 8.32 | 8.02 |
| 1/1 | 1/1 | 4.19 | 4.12 |
| 1/1 | 1/1 | 3.56 | 3.5 |
| 1/1 | 1/1 | 6.67 | 6.35 |
| 1/1 | 1/1 | 6.6 | 6.3 |
| 0/1 | 1/1 | 5.91 | 5.62 |
| 0/1 | 1/1 | 6.59 | 6.33 |
| 1/1 | 1/1 | 11.53 | 11.45 |
| 1/1 | 1/1 | 7.91 | 7.87 |
| 0/1 | 1/1 | 4.8 | 7.02 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 3.86 | 6.3 |
| 1/1 | 1/1 | 4.88 | 4.59 |
| 1/1 | 1/1 | 5.56 | 5.46 |
| 1/1 | 1/1 | 3.04 | 5.22 |
| 1/1 | 1/1 | 3.58 | 2.95 |
| 1/1 | 1/1 | 9.44 | 9.04 |
| 1/1 | 1/1 | 3.77 | 5.44 |
| 0/1 | 1/1 | 4.15 | 6.59 |
| 1/1 | 1/1 | 6.02 | 5.44 |
| 1/1 | 1/1 | 5.93 | 5.46 |
| 0/1 | 1/1 | 4.3 | 3.97 |
| 0/1 | 1/1 | 3.39 | 5.09 |
| 1/1 | 1/1 | 6.19 | 7.98 |
| 1/1 | 1/1 | 5.23 | 7.02 |
| 0/1 | 1/1 | 2.11 | 3.97 |
| 0/1 | 1/1 | 2.4 | 5.13 |
| 1/1 | 1/1 | 7.37 | 6.74 |
| 1/1 | 0/1 | 3.23 | 2.67 |
| 1/1 | 1/1 | 6.95 | 6.6 |
| 1/1 | 1/1 | 8.06 | 6.95 |
| 1/1 | 1/1 | 8.36 | 7.28 |
| 1/1 | 0/1 | 5.32 | 4.27 |
| 1/1 | 1/1 | 4.68 | 3.76 |
| 1/1 | 1/1 | 5.45 | 4.62 |
| 0/1 | 1/1 | 4.37 | 5.56 |
| 0/1 | 1/1 | 4.52 | 5.78 |
| 0/1 | 1/1 | 2.81 | 4.27 |
| 0/1 | 1/1 | 3.51 | 5.25 |
| 1/1 | 1/1 | 6.61 | 5.27 |
| 1/1 | 1/1 | 4.89 | 6.05 |
| 1/1 | 1/1 | 5.14 | 6.49 |
| 1/1 | 1/1 | 6.22 | 4.69 |
| 0/1 | 1/1 | 4.4 | 5.54 |
| 0/1 | 1/1 | 2.49 | 3.64 |
| 1/1 | 0/1 | 4.57 | 2.84 |
| 1/1 | 1/1 | 4.65 | 5.55 |
| 1/1 | 0/1 | 3.87 | 2.42 |
| 1/1 | 1/1 | 3.59 | 4.44 |
| 1/1 | 1/1 | 4.52 | 3.61 |
| 1/1 | 1/1 | 5.69 | 4.84 |
| 1/1 | 1/1 | 4.11 | 3.36 |
| 1/1 | 1/1 | 4.31 | 6.13 |
| 1/1 | 1/1 | 7.7 | 5.65 |
| 1/1 | 1/1 | 8.34 | 6.32 |
| 0/1 | 1/1 | 3.47 | 5.04 |
| 1/1 | 1/1 | 6.75 | 6.06 |
| 1/1 | 1/1 | 5.66 | 5.09 |
| 1/1 | 1/1 | 10.85 | 10.4 |
| 1/1 | 0/1 | 4.02 | 2.94 |
| 1/1 | 1/1 | 5.69 | 6.93 |
| 0/1 | 1/1 | 3.06 | 5.23 |
| 1/1 | 1/1 | 8.64 | 7.66 |
| 1/1 | 1/1 | 9.58 | 8.61 |
| 1/1 | 1/1 | 6.05 | 5.23 |
| 1/1 | 1/1 | 10.28 | 9.52 |
| 1/1 | 1/1 | 4.92 | 6.27 |
| 1/1 | 1/1 | 4.95 | 6.41 |
| 1/1 | 1/1 | 3.04 | 4.53 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 5.25 | 3.99 |
| 1/1 | 0/1 | 4.9 | 3.66 |
| 1/1 | 0/1 | 3.9 | 2.72 |
| 1/1 | 0/1 | 4.81 | 3.71 |
| 0/1 | 1/1 | 2.57 | 3.69 |
| 1/1 | 1/1 | 2.94 | 4.58 |
| 1/1 | 1/1 | 3.88 | 5.79 |
| 1/1 | 0/1 | 3.42 | 2.42 |
| 1/1 | 0/1 | 3.36 | 2.43 |
| 1/1 | 1/1 | 4.53 | 6.26 |
| 1/1 | 0/1 | 7.68 | 6.52 |
| 1/1 | 0/1 | 4.49 | 3.4 |
| 1/1 | 0/1 | 3.53 | 2.49 |
| 0/1 | 1/1 | 3.04 | 4.35 |
| 1/1 | 1/1 | 5.08 | 6.68 |
| 1/1 | 1/1 | 9.1 | 8.32 |
| 1/1 | 1/1 | 7.23 | 6.48 |
| 1/1 | 0/1 | 4.16 | 2.68 |
| 1/1 | 1/1 | 9.13 | 7.87 |
| 0/1 | 1/1 | 2.43 | 3.23 |
| 0/1 | 1/1 | 2.13 | 2.96 |
| 1/1 | 1/1 | 3.51 | 4.39 |
| 1/1 | 1/1 | 3.02 | 3.9 |
| 0/1 | 1/1 | 2.43 | 3.78 |
| 1/1 | 1/1 | 7.46 | 3.39 |
| 1/1 | 1/1 | 10.16 | 6.34 |
| 1/1 | 1/1 | 7.2 | 5.48 |
| 1/1 | 1/1 | 10.01 | 9.3 |
| 1/1 | 0/1 | 2.71 | 2.01 |
| 1/1 | 1/1 | 8.46 | 8.03 |
| 0/1 | 1/1 | 3.59 | 3.35 |
| 1/1 | 1/1 | 10.19 | 10.22 |
| 1/1 | 1/1 | 9.58 | 9.67 |
| 1/1 | 1/1 | 12.7 | 12.8 |
| 1/1 | 1/1 | 8.79 | 8.22 |
| 1/1 | 1/1 | 7.82 | 7.45 |
| 1/1 | 1/1 | 10.12 | 9.81 |
| 1/1 | 1/1 | 11.58 | 7.48 |
| 1/1 | 1/1 | 10.81 | 6.84 |
| 1/1 | 1/1 | 13.01 | 11.61 |
| 1/1 | 1/1 | 6.77 | 5.85 |
| 0/1 | 1/1 | 5.74 | 5.14 |
| 1/1 | 1/1 | 5.85 | 5.25 |
| 1/1 | 1/1 | 6.29 | 5.76 |
| 1/1 | 1/1 | 8.35 | 7.9 |
| 1/1 | 1/1 | 6.78 | 6.36 |
| 0/1 | 1/1 | 6.14 | 5.74 |
| 1/1 | 1/1 | 7.22 | 6.85 |
| 1/1 | 1/1 | 6.8 | 6.45 |
| 1/1 | 1/1 | 10.4 | 10.12 |
| 1/1 | 1/1 | 8.34 | 8.19 |
| 1/1 | 1/1 | 7.11 | 6.97 |
| 0/1 | 1/1 | 6.16 | 6.03 |
| 0/1 | 1/1 | 4.85 | 4.73 |
| 1/1 | 1/1 | 6.24 | 6.14 |
| 1/1 | 1/1 | 10.6 | 10.5 |
| 0/1 | 1/1 | 6.71 | 6.64 |
| 1/1 | 1/1 | 5.72 | 5.81 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.92 | 7.03 |
| 0/1 | 1/1 | 3.68 | 3.93 |
| 0/1 | 1/1 | 7.43 | 7.76 |
| 1/1 | 1/1 | 4.9 | 4.35 |
| 1/1 | 1/1 | 4.41 | 3.96 |
| 1/1 | 1/1 | 4.31 | 6.47 |
| 1/1 | 1/1 | 3.31 | 5.54 |
| 1/1 | 1/1 | 5.97 | 4.73 |
| 1/1 | 1/1 | 6.69 | 8.05 |
| 1/1 | 1/1 | 9.7 | 8.45 |
| 1/1 | 1/1 | 3.6 | 4.66 |
| 1/1 | 1/1 | 4.24 | 5.32 |
| 1/1 | 1/1 | 4.89 | 6.04 |
| 0/1 | 1/1 | 4.82 | 6.1 |
| 1/1 | 1/1 | 8.66 | 10.09 |
| 1/1 | 1/1 | 9.08 | 7.58 |
| 1/1 | 0/1 | 4.4 | 3.13 |
| 1/1 | 1/1 | 9.28 | 8.25 |
| 1/1 | 1/1 | 5.57 | 6.97 |
| 1/1 | 1/1 | 5.15 | 3.95 |
| 1/1 | 1/1 | 6.65 | 5.45 |
| 1/1 | 0/1 | 7.52 | 6.57 |
| 1/1 | 1/1 | 5.15 | 3.95 |
| 1/1 | 1/1 | 6.65 | 5.45 |
| 1/1 | 0/1 | 7.52 | 6.57 |
| 1/1 | 1/1 | 5.15 | 3.95 |
| 1/1 | 1/1 | 6.65 | 5.45 |
| 1/1 | 0/1 | 7.52 | 6.57 |
| 1/1 | 0/1 | 5.37 | 4.79 |
| 1/1 | 1/1 | 3.26 | 2.76 |
| 1/1 | 1/1 | 7.02 | 6.72 |
| 1/1 | 1/1 | 4.06 | 3.22 |
| 1/1 | 0/1 | 3.54 | 2.73 |
| 1/1 | 1/1 | 5.3 | 6.74 |
| 0/1 | 1/1 | 2.96 | 4.63 |
| 0/1 | 1/1 | 2.48 | 4.24 |
| 1/1 | 1/1 | 7.9 | 6.62 |
| 0/1 | 1/1 | 3.84 | 5.17 |
| 0/1 | 1/1 | 3.42 | 4.94 |
| 0/1 | 1/1 | 3.13 | 4.76 |
| 0/1 | 1/1 | 2.97 | 5.22 |
| 1/1 | 1/1 | 6.79 | 5.67 |
| 1/1 | 1/1 | 5 | 3.96 |
| 1/1 | 1/1 | 6.01 | 3.12 |
| 1/1 | 0/1 | 4.59 | 1.89 |
| 1/1 | 1/1 | 7.78 | 7.15 |
| 1/1 | 1/1 | 7.4 | 7.16 |
| 1/1 | 1/1 | 3.24 | 3.02 |
| 1/1 | 1/1 | 4.37 | 4.29 |
| 1/1 | 1/1 | 3.15 | 3.12 |
| 1/1 | 1/1 | 11.72 | 11.84 |
| 1/1 | 1/1 | 2.54 | 2.68 |
| 0/1 | 1/1 | 4.99 | 5.54 |
| 1/1 | 1/1 | 4.02 | 3.06 |
| 0/1 | 1/1 | 3.39 | 4.92 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.71 | 7.02 |
| 1/1 | 1/1 | 6.08 | 3.53 |
| 1/1 | 1/1 | 5.32 | 2.77 |
| 1/1 | 1/1 | 9.79 | 7.25 |
| 1/1 | 0/1 | 6.15 | 3.7 |
| 1/1 | 1/1 | 6.15 | 5.73 |
| 1/1 | 1/1 | 9.41 | 9.09 |
| 1/1 | 1/1 | 5.27 | 4.95 |
| 1/1 | 1/1 | 6.43 | 6.15 |
| 1/1 | 1/1 | 7.26 | 6.98 |
| 1/1 | 1/1 | 10.4 | 10.18 |
| 1/1 | 1/1 | 4.47 | 4.25 |
| 1/1 | 1/1 | 8.78 | 8.58 |
| 1/1 | 1/1 | 6.97 | 6.84 |
| 1/1 | 1/1 | 9.09 | 8.97 |
| 1/1 | 1/1 | 5.98 | 5.92 |
| 1/1 | 1/1 | 7.08 | 7.04 |
| 1/1 | 1/1 | 6.63 | 6.62 |
| 1/1 | 1/1 | 5.59 | 5.58 |
| 1/1 | 1/1 | 8.02 | 8.03 |
| 1/1 | 1/1 | 5.61 | 5.72 |
| 1/1 | 1/1 | 5.94 | 6.16 |
| 0/1 | 1/1 | 3.5 | 3.76 |
| 0/1 | 1/1 | 3.81 | 3.4 |
| 1/1 | 1/1 | 7.18 | 6.83 |
| 1/1 | 1/1 | 6 | 5.71 |
| 1/1 | 1/1 | 10.42 | 10.19 |
| 1/1 | 1/1 | 4.43 | 6.37 |
| 1/1 | 1/1 | 7.02 | 5.16 |
| 0/1 | 1/1 | 3.06 | 3.63 |
| 0/1 | 1/1 | 3.29 | 3.94 |
| 0/1 | 1/1 | 7.53 | 7.28 |
| 1/1 | 1/1 | 5.3 | 5.2 |
| 1/1 | 1/1 | 2.92 | 2.9 |
| 1/1 | 1/1 | 8.11 | 6.63 |
| 1/1 | 1/1 | 7.71 | 6.29 |
| 1/1 | 1/1 | 9.81 | 10.68 |
| 1/1 | 1/1 | 10.13 | 8.74 |
| 1/1 | 1/1 | 9.81 | 10.68 |
| 1/1 | 1/1 | 8.47 | 9.62 |
| 1/1 | 1/1 | 8.9 | 7.88 |
| 1/1 | 1/1 | 6.57 | 5.65 |
| 1/1 | 0/1 | 7.78 | 6.95 |
| 1/1 | 1/1 | 5.27 | 4.52 |
| 1/1 | 1/1 | 7.85 | 7.23 |
| 1/1 | 1/1 | 7.44 | 6.9 |
| 1/1 | 1/1 | 7.18 | 6.62 |
| 1/1 | 1/1 | 5.16 | 4.62 |
| 1/1 | 1/1 | 9.34 | 8.85 |
| 0/1 | 1/1 | 4.52 | 4.03 |
| 0/1 | 1/1 | 6.49 | 6.09 |
| 0/1 | 1/1 | 6.23 | 5.91 |
| 1/1 | 1/1 | 7.15 | 6.84 |
| 1/1 | 1/1 | 7.62 | 6.95 |
| 1/1 | 1/1 | 8.8 | 8.27 |
| 1/1 | 1/1 | 7.3 | 6.87 |
| 0/1 | 1/1 | 4.2 | 5.81 |
| 0/1 | 1/1 | 1.97 | 3.59 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.9 | 5.13 |
| 1/1 | 0/1 | 4.21 | 2.87 |
| 1/1 | 1/1 | 5.25 | 4.12 |
| 1/1 | 1/1 | 4.63 | 5.76 |
| 1/1 | 1/1 | 4.02 | 3.52 |
| 1/1 | 1/1 | 9.12 | 8.7 |
| 1/1 | 1/1 | 6.79 | 6.43 |
| 1/1 | 1/1 | 3.07 | 2.78 |
| 0/1 | 1/1 | 3.28 | 5.52 |
| 1/1 | 1/1 | 5.83 | 4.39 |
| 0/1 | 1/1 | 2.96 | 3.81 |
| 1/1 | 1/1 | 4.62 | 5.72 |
| 0/1 | 1/1 | 2.7 | 4.4 |
| 1/1 | 0/1 | 3.48 | 2.18 |
| 1/1 | 1/1 | 9.85 | 8.75 |
| 1/1 | 1/1 | 6.87 | 7.86 |
| 1/1 | 1/1 | 5.43 | 6.44 |
| 0/1 | 1/1 | 2.82 | 3.85 |
| 1/1 | 1/1 | 6.43 | 7.49 |
| 1/1 | 1/1 | 5.38 | 6.46 |
| 1/1 | 1/1 | 4.85 | 6.03 |
| 1/1 | 1/1 | 5.4 | 6.65 |
| 1/1 | 1/1 | 5.45 | 6.78 |
| 1/1 | 1/1 | 5.26 | 6.66 |
| 1/1 | 1/1 | 5.89 | 7.3 |
| 1/1 | 1/1 | 4.22 | 5.77 |
| 1/1 | 1/1 | 6.9 | 5.41 |
| 0/1 | 1/1 | 5.21 | 6.61 |
| 1/1 | 1/1 | 10.72 | 10.58 |
| 1/1 | 1/1 | 5.09 | 5.01 |
| 1/1 | 1/1 | 2.56 | 2.58 |
| 1/1 | 1/1 | 8.33 | 8.44 |
| 1/1 | 1/1 | 6.25 | 4.97 |
| 1/1 | 1/1 | 7.39 | 8.36 |
| 0/1 | 1/1 | 3.18 | 4.29 |
| 1/1 | 1/1 | 5.85 | 4.49 |
| 1/1 | 1/1 | 3.52 | 4.48 |
| 0/1 | 1/1 | 3.25 | 4.27 |
| 0/1 | 1/1 | 2.88 | 4.13 |
| 0/1 | 1/1 | 2.41 | 3.72 |
| 0/1 | 1/1 | 3.27 | 4.69 |
| 1/1 | 1/1 | 6.04 | 4.77 |
| 0/1 | 1/1 | 2.05 | 3.12 |
| 1/1 | 0/1 | 4.11 | 3.47 |
| 1/1 | 0/1 | 2.76 | 2.17 |
| 1/1 | 1/1 | 4.32 | 3.77 |
| 1/1 | 0/1 | 3.28 | 2.39 |
| 1/1 | 1/1 | 5.69 | 4.93 |
| 1/1 | 1/1 | 7.9 | 7.17 |
| 0/1 | 1/1 | 2.15 | 3.57 |
| 1/1 | 1/1 | 6.81 | 6.51 |
| 0/1 | 1/1 | 6.09 | 5.92 |
| 1/1 | 1/1 | 11.59 | 11.43 |
| 1/1 | 1/1 | 9.44 | 9.33 |
| 1/1 | 1/1 | 3.25 | 5.25 |
| 1/1 | 1/1 | 3.92 | 6 |
| 1/1 | 1/1 | 5.82 | 7.94 |
| 0/1 | 1/1 | 6.21 | 5.59 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.5 | 5.97 |
| 1/1 | 1/1 | 8.24 | 7.74 |
| 1/1 | 1/1 | 6.22 | 5.72 |
| 1/1 | 1/1 | 5.56 | 4.37 |
| 1/1 | 1/1 | 10.82 | 9.78 |
| 1/1 | 1/1 | 5.88 | 4.93 |
| 0/1 | 1/1 | 3.79 | 5.3 |
| 1/1 | 1/1 | 7.1 | 7 |
| 1/1 | 1/1 | 3.24 | 3.18 |
| 1/1 | 1/1 | 6.72 | 6.69 |
| 1/1 | 1/1 | 4.28 | 4.24 |
| 1/1 | 1/1 | 7.34 | 7.33 |
| 0/1 | 1/1 | 2.11 | 4.39 |
| 0/1 | 1/1 | 2.31 | 4.82 |
| 0/1 | 1/1 | 2.25 | 4.8 |
| 0/1 | 1/1 | 4.21 | 7.09 |
| 0/1 | 1/1 | 3.39 | 6.46 |
| 1/1 | 0/1 | 5.25 | 3.66 |
| 1/1 | 1/1 | 4.46 | 3.1 |
| 1/1 | 0/1 | 3.45 | 2.08 |
| 1/1 | 0/1 | 4.29 | 3.13 |
| 1/1 | 1/1 | 6.31 | 4.64 |
| 1/1 | 0/1 | 4.1 | 2.55 |
| 1/1 | 0/1 | 3.87 | 2.32 |
| 0/1 | 1/1 | 3.81 | 4.41 |
| 1/1 | 1/1 | 5.19 | 5.79 |
| 1/1 | 1/1 | 3.4 | 4.14 |
| 0/1 | 1/1 | 2.27 | 3.21 |
| 1/1 | 0/1 | 5.46 | 3.8 |
| 0/1 | 1/1 | 3.94 | 5 |
| 0/1 | 1/1 | 4.72 | 5.82 |
| 0/1 | 1/1 | 3.01 | 4.18 |
| 0/1 | 1/1 | 4.22 | 5.52 |
| 0/1 | 1/1 | 4.33 | 5.84 |
| 1/1 | 0/1 | 6.07 | 4.26 |
| 0/1 | 1/1 | 3.82 | 4.35 |
| 1/1 | 0/1 | 4.53 | 3.43 |
| 1/1 | 1/1 | 4.92 | 6.41 |
| 1/1 | 1/1 | 9.14 | 8.2 |
| 1/1 | 1/1 | 5.1 | 4.34 |
| 1/1 | 1/1 | 7.69 | 6.96 |
| 1/1 | 1/1 | 5.66 | 3.94 |
| 1/1 | 1/1 | 6.52 | 4.91 |
| 1/1 | 0/1 | 5.61 | 4.06 |
| 1/1 | 1/1 | 10.62 | 9.58 |
| 1/1 | 1/1 | 5.4 | 7.38 |
| 1/1 | 1/1 | 6.66 | 5 |
| 1/1 | 1/1 | 6.44 | 7.25 |
| 1/1 | 1/1 | 6.77 | 7.61 |
| 1/1 | 1/1 | 5.15 | 3.95 |
| 1/1 | 1/1 | 6.65 | 5.45 |
| 1/1 | 0/1 | 7.52 | 6.57 |
| 1/1 | 1/1 | 9.13 | 8.79 |
| 1/1 | 1/1 | 8.17 | 7.83 |
| 1/1 | 1/1 | 7.58 | 7.25 |
| 0/1 | 1/1 | 3.11 | 5.17 |
| 1/1 | 1/1 | 3.94 | 6.08 |
| 1/1 | 1/1 | 6.46 | 8.8 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 4.74 | 7.16 |
| 1/1 | 1/1 | 6.47 | 4.92 |
| 1/1 | 1/1 | 3.97 | 4.71 |
| 1/1 | 1/1 | 6.27 | 5.04 |
| 0/1 | 1/1 | 4.53 | 6.24 |
| 1/1 | 1/1 | 5.21 | 4.29 |
| 1/1 | 1/1 | 6.31 | 7.74 |
| 0/1 | 1/1 | 2.27 | 3.73 |
| 1/1 | 1/1 | 5.8 | 7.46 |
| 1/1 | 1/1 | 6.34 | 8.03 |
| 1/1 | 0/1 | 6.91 | 5.95 |
| 1/1 | 0/1 | 3.25 | 2.46 |
| 1/1 | 0/1 | 3.86 | 3.09 |
| 1/1 | 1/1 | 5.16 | 6.78 |
| 1/1 | 1/1 | 3.43 | 5.2 |
| 0/1 | 1/1 | 6.38 | 6.07 |
| 1/1 | 1/1 | 5.54 | 7.65 |
| 1/1 | 1/1 | 4.99 | 3.72 |
| 1/1 | 0/1 | 4.26 | 3.06 |
| 1/1 | 1/1 | 3.39 | 4.52 |
| 1/1 | 1/1 | 8.83 | 8.15 |
| 1/1 | 1/1 | 4.38 | 6.24 |
| 1/1 | 1/1 | 7.03 | 6.53 |
| 1/1 | 1/1 | 9.49 | 9.14 |
| 1/1 | 0/1 | 2.6 | 1.93 |
| 0/1 | 1/1 | 2.52 | 4.14 |
| 1/1 | 1/1 | 6.15 | 5.38 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 7.81 | 7.16 |
| 0/1 | 1/1 | 3.38 | 2.91 |
| 1/1 | 1/1 | 5.93 | 5.69 |
| 1/1 | 1/1 | 4.74 | 6.66 |
| 1/1 | 1/1 | 5.65 | 7.86 |
| 1/1 | 0/1 | 9.13 | 8.43 |
| 1/1 | 1/1 | 4.3 | 3.85 |
| 1/1 | 1/1 | 5.82 | 7.78 |
| 1/1 | 1/1 | 5.24 | 7.25 |
| 1/1 | 1/1 | 8.94 | 7.19 |
| 1/1 | 1/1 | 8.8 | 9.31 |
| 0/1 | 1/1 | 3.54 | 4.57 |
| 1/1 | 0/1 | 6.28 | 4.87 |
| 1/1 | 1/1 | 4.06 | 5.05 |
| 0/1 | 1/1 | 5.27 | 6.41 |
| 1/1 | 1/1 | 5.52 | 3.91 |
| 1/1 | 1/1 | 5.23 | 5.93 |
| 0/1 | 1/1 | 2.53 | 3.3 |
| 1/1 | 0/1 | 5.6 | 4.12 |
| 1/1 | 0/1 | 4.94 | 3.56 |
| 1/1 | 1/1 | 4.09 | 4.96 |
| 1/1 | 1/1 | 6.62 | 7.51 |
| 1/1 | 1/1 | 3.6 | 3.41 |
| 1/1 | 1/1 | 8.13 | 7.95 |
| 1/1 | 1/1 | 6.88 | 5.76 |
| 1/1 | 1/1 | 4.17 | 5.41 |
| 1/1 | 1/1 | 3.77 | 5.6 |
| 0/1 | 1/1 | 5.22 | 4.3 |
| 1/1 | 1/1 | 5.93 | 7.82 |
| 1/1 | 1/1 | 8.15 | 7.42 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 6.43 | 5.72 |
| 0/1 | 1/1 | 3.25 | 4.9 |
| 0/1 | 1/1 | 2.05 | 3.85 |
| 0/1 | 1/1 | 2.54 | 4.78 |
| 1/1 | 1/1 | 7.01 | 6.74 |
| 1/1 | 1/1 | 9.59 | 9.47 |
| 1/1 | 1/1 | 2.44 | 2.39 |
| 0/1 | 1/1 | 2.87 | 3.13 |
| 1/1 | 1/1 | 5.79 | 6.07 |
| 0/1 | 1/1 | 2.56 | 2.86 |
| 0/1 | 1/1 | 2.48 | 2.84 |
| 1/1 | 1/1 | 6.85 | 7.33 |
| 1/1 | 1/1 | 6.58 | 5.38 |
| 1/1 | 1/1 | 6.9 | 5.71 |
| 1/1 | 0/1 | 6.8 | 6.03 |
| 1/1 | 1/1 | 6.57 | 5.86 |
| 1/1 | 0/1 | 5.08 | 4.5 |
| 1/1 | 1/1 | 4.13 | 5.85 |
| 0/1 | 1/1 | 2.82 | 5.47 |
| 1/1 | 0/1 | 5.76 | 2.84 |
| 1/1 | 1/1 | 9.68 | 9.1 |
| 1/1 | 1/1 | 10.01 | 9.62 |
| 0/1 | 1/1 | 5.22 | 5.74 |
| 1/1 | 1/1 | 3.51 | 3.04 |
| 1/1 | 1/1 | 8.16 | 7.81 |
| 1/1 | 1/1 | 6.64 | 5.7 |
| 1/1 | 1/1 | 7.83 | 7.11 |
| 0/1 | 1/1 | 3.5 | 4.82 |
| 1/1 | 1/1 | 3.75 | 5.23 |
| 0/1 | 1/1 | 3.87 | 5.64 |
| 1/1 | 1/1 | 5.11 | 3.43 |
| 1/1 | 1/1 | 5.07 | 5.68 |
| 0/1 | 1/1 | 5.06 | 5.73 |
| 0/1 | 1/1 | 4.96 | 6.28 |
| 1/1 | 1/1 | 8.2 | 6.67 |
| 1/1 | 0/1 | 5.05 | 3.58 |
| 1/1 | 1/1 | 6.21 | 4.86 |
| 0/1 | 1/1 | 3.83 | 4.62 |
| 1/1 | 1/1 | 7.19 | 8.05 |
| 1/1 | 1/1 | 4.59 | 5.6 |
| 1/1 | 1/1 | 7.09 | 6.89 |
| 1/1 | 1/1 | 10.15 | 9.98 |
| 1/1 | 1/1 | 5.52 | 5.51 |
| 1/1 | 1/1 | 9.04 | 9.05 |
| 1/1 | 1/1 | 11.1 | 11.14 |
| 1/1 | 1/1 | 6.7 | 6.75 |
| 0/1 | 1/1 | 5.03 | 7.12 |
| 1/1 | 0/1 | 4.83 | 3.1 |
| 1/1 | 0/1 | 4.02 | 2.52 |
| 0/1 | 1/1 | 2.45 | 3.06 |
| 0/1 | 1/1 | 1.96 | 2.77 |
| 1/1 | 1/1 | 9.53 | 8.63 |
| 0/1 | 1/1 | 3.12 | 4.51 |
| 1/1 | 1/1 | 4.89 | 6.33 |
| 0/1 | 1/1 | 3.55 | 5.24 |
| 1/1 | 1/1 | 5 | 4.53 |
| 1/1 | 1/1 | 4.7 | 4.38 |
| 1/1 | 1/1 | 6.51 | 6.22 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.13 | 5.9 |
| 0/1 | 1/1 | 3.43 | 6.47 |
| 1/1 | 1/1 | 5.98 | 4.57 |
| 1/1 | 1/1 | 5.75 | 4.46 |
| 1/1 | 1/1 | 7.81 | 9.05 |
| 1/1 | 1/1 | 5.98 | 4.57 |
| 1/1 | 1/1 | 5.75 | 4.46 |
| 1/1 | 1/1 | 7.81 | 9.05 |
| 1/1 | 1/1 | 8.64 | 6.92 |
| 0/1 | 1/1 | 3.08 | 3.83 |
| 1/1 | 1/1 | 12.53 | 12.24 |
| 0/1 | 1/1 | 7.06 | 6.92 |
| 1/1 | 1/1 | 7.06 | 7.01 |
| 1/1 | 1/1 | 5.54 | 7.51 |
| 1/1 | 1/1 | 3.8 | 6.5 |
| 1/1 | 1/1 | 5.14 | 7.87 |
| 1/1 | 1/1 | 6.15 | 5.38 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 7.81 | 7.16 |
| 1/1 | 1/1 | 6.15 | 5.38 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 7.81 | 7.16 |
| 1/1 | 1/1 | 6.15 | 5.38 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 7.81 | 7.16 |
| 1/1 | 1/1 | 4.9 | 4.03 |
| 0/1 | 1/1 | 4.72 | 4.11 |
| 1/1 | 1/1 | 6.35 | 5.5 |
| 1/1 | 1/1 | 5.36 | 4.57 |
| 1/1 | 1/1 | 4.42 | 5.81 |
| 0/1 | 1/1 | 7.49 | 7.19 |
| 1/1 | 1/1 | 3.7 | 3.46 |
| 1/1 | 1/1 | 12.93 | 12.74 |
| 1/1 | 1/1 | 10.76 | 10.7 |
| 1/1 | 1/1 | 6.86 | 6.21 |
| 1/1 | 0/1 | 3.32 | 2.82 |
| 1/1 | 1/1 | 7.03 | 6.56 |
| 1/1 | 1/1 | 4.85 | 6.49 |
| 1/1 | 1/1 | 3.16 | 5.46 |
| 1/1 | 1/1 | 8.83 | 7.69 |
| 0/1 | 1/1 | 4.26 | 5.4 |
| 1/1 | 1/1 | 5.94 | 5.26 |
| 1/1 | 0/1 | 5.77 | 5.26 |
| 1/1 | 1/1 | 6.04 | 5.56 |
| 0/1 | 1/1 | 3.38 | 5.52 |
| 1/1 | 0/1 | 3.36 | 2.84 |
| 1/1 | 1/1 | 4.89 | 4.5 |
| 1/1 | 1/1 | 3.81 | 5.73 |
| 1/1 | 1/1 | 4.28 | 3.37 |
| 1/1 | 1/1 | 5.57 | 4.83 |
| 0/1 | 1/1 | 4.85 | 6.28 |
| 1/1 | 1/1 | 6.17 | 7.81 |
| 0/1 | 1/1 | 3.17 | 4.9 |
| 1/1 | 1/1 | 5.79 | 7.76 |
| 1/1 | 1/1 | 5.74 | 7.82 |
| 1/1 | 1/1 | 5.29 | 8.16 |
| 1/1 | 1/1 | 10.4 | 9.12 |
| 1/1 | 1/1 | 7.74 | 6.53 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 8.8 | 7.61 |
| 1/1 | 1/1 | 10.33 | 9.28 |
| 1/1 | 1/1 | 5.53 | 4.48 |
| 1/1 | 1/1 | 7.03 | 6.06 |
| 1/1 | 1/1 | 7.64 | 6.78 |
| 1/1 | 1/1 | 5.94 | 5.18 |
| 1/1 | 1/1 | 5.92 | 7.42 |
| 1/1 | 1/1 | 5.79 | 3.89 |
| 1/1 | 1/1 | 4.73 | 2.89 |
| 0/1 | 1/1 | 2.64 | 3.06 |
| 1/1 | 1/1 | 5.39 | 4.22 |
| 1/1 | 1/1 | 5.48 | 6.68 |
| 0/1 | 1/1 | 2.35 | 3.62 |
| 1/1 | 1/1 | 4.79 | 6.19 |
| 1/1 | 1/1 | 4.78 | 6.4 |
| 1/1 | 1/1 | 6.54 | 5.83 |
| 1/1 | 1/1 | 4.6 | 6.66 |
| 1/1 | 0/1 | 5.07 | 1.97 |
| 1/1 | 1/1 | 7.2 | 4.33 |
| 1/1 | 0/1 | 3.24 | 2.75 |
| 1/1 | 1/1 | 4.07 | 3.82 |
| 1/1 | 1/1 | 3.69 | 4.03 |
| 1/1 | 1/1 | 4.54 | 4.2 |
| 1/1 | 1/1 | 4.88 | 4.7 |
| 1/1 | 1/1 | 3.75 | 2.99 |
| 0/1 | 1/1 | 4.05 | 5.62 |
| 1/1 | 1/1 | 5.47 | 4.96 |
| 1/1 | 1/1 | 5.69 | 5.18 |
| 1/1 | 1/1 | 5 | 3.49 |
| 0/1 | 1/1 | 3.34 | 4.26 |
| 1/1 | 1/1 | 7.16 | 6.46 |
| 1/1 | 1/1 | 6.42 | 5.87 |
| 1/1 | 1/1 | 5.59 | 5.06 |
| 1/1 | 1/1 | 7.24 | 8.8 |
| 1/1 | 1/1 | 6.87 | 5.73 |
| 0/1 | 1/1 | 3.46 | 4.75 |
| 1/1 | 1/1 | 4.49 | 4.19 |
| 1/1 | 1/1 | 6.23 | 6.15 |
| 1/1 | 1/1 | 3.8 | 5.9 |
| 1/1 | 0/1 | 2.91 | 2.24 |
| 1/1 | 1/1 | 4.44 | 6.09 |
| 1/1 | 1/1 | 9.78 | 8.9 |
| 1/1 | 1/1 | 7.28 | 6.42 |
| 0/1 | 1/1 | 3.89 | 5.27 |
| 1/1 | 1/1 | 4.94 | 6.69 |
| 1/1 | 1/1 | 5.51 | 4.59 |
| 1/1 | 1/1 | 2.99 | 2.11 |
| 1/1 | 0/1 | 3.4 | 2.51 |
| 1/1 | 1/1 | 4.76 | 6.07 |
| 0/1 | 1/1 | 2.08 | 3.39 |
| 1/1 | 1/1 | 4.18 | 5.8 |
| 1/1 | 1/1 | 6.52 | 6.45 |
| 0/1 | 1/1 | 4.63 | 7.05 |
| 1/1 | 1/1 | 6.27 | 8.7 |
| 1/1 | 1/1 | 5 | 7.54 |
| 0/1 | 1/1 | 5.39 | 7.99 |
| 1/1 | 1/1 | 5.55 | 8.41 |
| 1/1 | 0/1 | 6.41 | 3.1 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.94 | 5.91 |
| 1/1 | 1/1 | 7.58 | 6.6 |
| 1/1 | 1/1 | 5.92 | 5.01 |
| 1/1 | 1/1 | 3.3 | 2.74 |
| 1/1 | 1/1 | 4.68 | 4.52 |
| 0/1 | 1/1 | 3.21 | 3.11 |
| 1/1 | 1/1 | 5.35 | 4.39 |
| 1/1 | 1/1 | 4.2 | 5.73 |
| 1/1 | 0/1 | 5.69 | 4.48 |
| 1/1 | 1/1 | 5.64 | 6.9 |
| 1/1 | 1/1 | 5.26 | 3.93 |
| 1/1 | 1/1 | 4.61 | 5.57 |
| 0/1 | 1/1 | 2.2 | 3.18 |
| 1/1 | 1/1 | 3.78 | 4.86 |
| 1/1 | 1/1 | 2.96 | 4.05 |
| 1/1 | 1/1 | 3.18 | 4.93 |
| 1/1 | 1/1 | 6.35 | 4.92 |
| 1/1 | 0/1 | 6.41 | 4.98 |
| 1/1 | 1/1 | 6.09 | 5.63 |
| 1/1 | 1/1 | 3.45 | 3.12 |
| 1/1 | 1/1 | 5.01 | 6.81 |
| 1/1 | 1/1 | 3.31 | 5.16 |
| 0/1 | 1/1 | 2.02 | 3.96 |
| 1/1 | 1/1 | 10.86 | 10 |
| 1/1 | 1/1 | 4.7 | 3.95 |
| 1/1 | 1/1 | 7.19 | 6.51 |
| 1/1 | 1/1 | 8.61 | 7.93 |
| 1/1 | 1/1 | 5.89 | 5.21 |
| 1/1 | 1/1 | 6.37 | 5.09 |
| 1/1 | 1/1 | 5.65 | 4.48 |
| 1/1 | 1/1 | 6.34 | 5.51 |
| 1/1 | 1/1 | 6.27 | 7.81 |
| 1/1 | 0/1 | 9.28 | 8.39 |
| 1/1 | 0/1 | 7.95 | 7.28 |
| 1/1 | 1/1 | 5.05 | 4.05 |
| 1/1 | 0/1 | 5.52 | 4.58 |
| 1/1 | 1/1 | 9.55 | 8.38 |
| 1/1 | 1/1 | 4.65 | 3.62 |
| 1/1 | 1/1 | 6.66 | 5.9 |
| 1/1 | 1/1 | 6.69 | 6.14 |
| 0/1 | 1/1 | 3.22 | 4.85 |
| 1/1 | 1/1 | 8.07 | 6.4 |
| 1/1 | 1/1 | 6.87 | 7.43 |
| 1/1 | 1/1 | 8.78 | 8.47 |
| 1/1 | 1/1 | 8.15 | 7.98 |
| 1/1 | 1/1 | 7.48 | 6.57 |
| 1/1 | 1/1 | 5.3 | 4.59 |
| 1/1 | 1/1 | 9.04 | 8.84 |
| 1/1 | 1/1 | 2.54 | 2.35 |
| 1/1 | 1/1 | 5.93 | 5.79 |
| 0/1 | 1/1 | 7.71 | 7.64 |
| 1/1 | 1/1 | 9.18 | 8.09 |
| 1/1 | 0/1 | 9.12 | 8.13 |
| 0/1 | 1/1 | 5.02 | 6.2 |
| 1/1 | 1/1 | 4.66 | 5.89 |
| 1/1 | 1/1 | 5.67 | 7.3 |
| 0/1 | 1/1 | 2.45 | 4.35 |
| 0/1 | 1/1 | 3.08 | 5.41 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.45 | 3.13 |
| 1/1 | 1/1 | 6.85 | 5.59 |
| 1/1 | 1/1 | 4.45 | 3.2 |
| 1/1 | 0/1 | 3.99 | 2.9 |
| 1/1 | 1/1 | 5.02 | 3.94 |
| 1/1 | 1/1 | 3.8 | 3.07 |
| 1/1 | 1/1 | 4.43 | 3.83 |
| 1/1 | 1/1 | 6.08 | 5.51 |
| 1/1 | 1/1 | 3.22 | 4.99 |
| 1/1 | 1/1 | 3.94 | 2.92 |
| 1/1 | 1/1 | 5.36 | 4.49 |
| 1/1 | 1/1 | 2.91 | 4.15 |
| 0/1 | 1/1 | 3.34 | 4.73 |
| 1/1 | 1/1 | 5.29 | 6.73 |
| 1/1 | 1/1 | 5.39 | 6.92 |
| 0/1 | 1/1 | 2.64 | 4.23 |
| 1/1 | 1/1 | 3.87 | 5.91 |
| 1/1 | 1/1 | 4.94 | 3.54 |
| 1/1 | 1/1 | 4.19 | 5.01 |
| 1/1 | 0/1 | 5.38 | 4.5 |
| 1/1 | 1/1 | 7.39 | 6.52 |
| 1/1 | 1/1 | 5.95 | 5.21 |
| 1/1 | 1/1 | 4.71 | 6.12 |
| 0/1 | 1/1 | 3.47 | 5.1 |
| 1/1 | 0/1 | 7.23 | 2.03 |
| 1/1 | 1/1 | 5.87 | 3.01 |
| 1/1 | 0/1 | 5.47 | 2.65 |
| 1/1 | 1/1 | 7.36 | 4.57 |
| 1/1 | 0/1 | 5.83 | 3.05 |
| 1/1 | 0/1 | 4.85 | 2.22 |
| 1/1 | 1/1 | 6.11 | 3.55 |
| 1/1 | 0/1 | 5.11 | 2.7 |
| 1/1 | 1/1 | 5.28 | 2.91 |
| 1/1 | 0/1 | 4.99 | 2.67 |
| 1/1 | 0/1 | 5.92 | 3.62 |
| 1/1 | 1/1 | 5.74 | 3.59 |
| 1/1 | 1/1 | 4.78 | 2.92 |
| 1/1 | 0/1 | 3.99 | 2.19 |
| 1/1 | 0/1 | 5.36 | 3.7 |
| 1/1 | 0/1 | 4.05 | 2.42 |
| 1/1 | 0/1 | 3.5 | 2.04 |
| 1/1 | 1/1 | 5.73 | 4.36 |
| 1/1 | 0/1 | 4.15 | 2.91 |
| 1/1 | 0/1 | 3.49 | 2.27 |
| 1/1 | 0/1 | 3.41 | 2.23 |
| 1/1 | 0/1 | 3.38 | 2.41 |
| 1/1 | 1/1 | 3.53 | 2.65 |
| 1/1 | 1/1 | 7.92 | 7.14 |
| 1/1 | 0/1 | 3 | 2.27 |
| 1/1 | 0/1 | 2.74 | 2.13 |
| 1/1 | 1/1 | 3.39 | 2.91 |
| 1/1 | 1/1 | 7.18 | 6.79 |
| 1/1 | 1/1 | 7.21 | 6.95 |
| 1/1 | 1/1 | 11.39 | 11.18 |
| 1/1 | 1/1 | 5.02 | 4.9 |
| 1/1 | 1/1 | 4.13 | 4.18 |
| 1/1 | 1/1 | 2.24 | 2.45 |
| 1/1 | 1/1 | 6.58 | 5.31 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.29 | 7.34 |
| 0/1 | 1/1 | 4.99 | 6.14 |
| 1/1 | 1/1 | 4.63 | 5.79 |
| 0/1 | 1/1 | 2.81 | 4.44 |
| 1/1 | 1/1 | 5.5 | 4.52 |
| 0/1 | 1/1 | 4.8 | 4.02 |
| 1/1 | 1/1 | 6.72 | 5.94 |
| 1/1 | 0/1 | 5.27 | 4.51 |
| 1/1 | 1/1 | 3.63 | 2.98 |
| 0/1 | 1/1 | 2.51 | 4.12 |
| 0/1 | 1/1 | 3.35 | 5.15 |
| 1/1 | 1/1 | 10.08 | 9.89 |
| 1/1 | 1/1 | 2.67 | 2.63 |
| 1/1 | 1/1 | 3.78 | 5.84 |
| 1/1 | 1/1 | 4.33 | 6.41 |
| 1/1 | 1/1 | 4.54 | 6.63 |
| 1/1 | 1/1 | 5.2 | 7.39 |
| 0/1 | 1/1 | 2.97 | 5.5 |
| 1/1 | 1/1 | 6.99 | 6.31 |
| 1/1 | 1/1 | 6.59 | 6.1 |
| 1/1 | 1/1 | 4.35 | 3.81 |
| 1/1 | 1/1 | 8.12 | 7.74 |
| 1/1 | 1/1 | 4.07 | 3.69 |
| 1/1 | 1/1 | 7.23 | 6.91 |
| 1/1 | 1/1 | 6.48 | 6.17 |
| 0/1 | 1/1 | 2.16 | 5.01 |
| 1/1 | 1/1 | 5.5 | 4.29 |
| 1/1 | 1/1 | 4.26 | 5.4 |
| 1/1 | 0/1 | 3.37 | 2.33 |
| 1/1 | 1/1 | 8.18 | 7.26 |
| 1/1 | 1/1 | 3.59 | 2.7 |
| 1/1 | 1/1 | 6.41 | 7.77 |
| 1/1 | 0/1 | 5.78 | 4.68 |
| 1/1 | 1/1 | 6.41 | 7.55 |
| 1/1 | 1/1 | 2.96 | 4.25 |
| 1/1 | 1/1 | 5.03 | 6.36 |
| 1/1 | 1/1 | 8.74 | 7.23 |
| 1/1 | 1/1 | 6.74 | 5.31 |
| 1/1 | 1/1 | 8.17 | 6.76 |
| 1/1 | 1/1 | 7.22 | 5.81 |
| 1/1 | 0/1 | 4.71 | 3.57 |
| 1/1 | 1/1 | 3.55 | 5.01 |
| 1/1 | 1/1 | 2.96 | 4.42 |
| 1/1 | 1/1 | 8.4 | 7.22 |
| 1/1 | 1/1 | 5.86 | 7.04 |
| 0/1 | 1/1 | 4.73 | 6 |
| 1/1 | 1/1 | 8.92 | 8.41 |
| 1/1 | 1/1 | 5.18 | 4.82 |
| 1/1 | 1/1 | 4.58 | 4.11 |
| 0/1 | 1/1 | 4.32 | 6.32 |
| 0/1 | 1/1 | 2.73 | 6.06 |
| 1/1 | 1/1 | 6.73 | 6.11 |
| 1/1 | 1/1 | 5.77 | 5.26 |
| 1/1 | 1/1 | 3.89 | 3.4 |
| 1/1 | 0/1 | 2.48 | 2.06 |
| 1/1 | 1/1 | 4.95 | 6.63 |
| 1/1 | 1/1 | 8.29 | 7.25 |
| 1/1 | 1/1 | 10.99 | 10.02 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.96 | 5.01 |
| 1/1 | 1/1 | 4.96 | 4.13 |
| 1/1 | 1/1 | 8.32 | 5.64 |
| 1/1 | 1/1 | 8.77 | 6.18 |
| 1/1 | 1/1 | 4.56 | 4.1 |
| 1/1 | 1/1 | 7.83 | 7.43 |
| 1/1 | 1/1 | 10.25 | 9.85 |
| 1/1 | 1/1 | 7.72 | 7.37 |
| 0/1 | 1/1 | 5.02 | 4.79 |
| 1/1 | 1/1 | 5.19 | 5.03 |
| 1/1 | 1/1 | 10.61 | 10.46 |
| 1/1 | 1/1 | 9.69 | 9.75 |
| 1/1 | 1/1 | 4.4 | 4.48 |
| 1/1 | 1/1 | 5.27 | 5.53 |
| 1/1 | 1/1 | 6.55 | 5.22 |
| 1/1 | 1/1 | 4.38 | 3.13 |
| 1/1 | 1/1 | 7.58 | 6.92 |
| 1/1 | 1/1 | 5.84 | 5.31 |
| 1/1 | 1/1 | 7.13 | 6.64 |
| 1/1 | 1/1 | 5.09 | 2.86 |
| 1/1 | 1/1 | 3.16 | 3.15 |
| 0/1 | 1/1 | 2.15 | 2.2 |
| 1/1 | 1/1 | 2.81 | 2.88 |
| 0/1 | 1/1 | 2.26 | 2.4 |
| 0/1 | 1/1 | 3.16 | 3.36 |
| 1/1 | 1/1 | 4.93 | 5.15 |
| 1/1 | 1/1 | 9.33 | 9.62 |
| 1/1 | 1/1 | 3.83 | 4.22 |
| 0/1 | 1/1 | 2.84 | 3.31 |
| 1/1 | 1/1 | 2.85 | 3.35 |
| 0/1 | 1/1 | 3.46 | 4.05 |
| 0/1 | 1/1 | 2.3 | 3.13 |
| 1/1 | 1/1 | 6.95 | 6.26 |
| 1/1 | 1/1 | 5.04 | 4.41 |
| 1/1 | 1/1 | 5.16 | 4.62 |
| 0/1 | 1/1 | 3.94 | 5.6 |
| 0/1 | 1/1 | 3.36 | 5.65 |
| 1/1 | 1/1 | 8.5 | 6.91 |
| 1/1 | 1/1 | 4.92 | 5.57 |
| 1/1 | 1/1 | 6.48 | 7.14 |
| 1/1 | 1/1 | 5.82 | 6.52 |
| 0/1 | 1/1 | 3.62 | 4.36 |
| 1/1 | 1/1 | 4.95 | 5.78 |
| 1/1 | 1/1 | 5.38 | 6.23 |
| 1/1 | 1/1 | 6.34 | 7.43 |
| 1/1 | 1/1 | 4.23 | 5.65 |
| 1/1 | 1/1 | 5.1 | 4.66 |
| 1/1 | 1/1 | 5.4 | 5.09 |
| 0/1 | 1/1 | 2.43 | 4.22 |
| 0/1 | 1/1 | 2.46 | 4.42 |
| 1/1 | 1/1 | 5.02 | 7.13 |
| 1/1 | 1/1 | 5.89 | 8.05 |
| 1/1 | 1/1 | 4.48 | 6.66 |
| 1/1 | 1/1 | 4.02 | 6.28 |
| 0/1 | 1/1 | 2.92 | 5.61 |
| 0/1 | 1/1 | 2.41 | 5.34 |
| 1/1 | 1/1 | 7.94 | 5.04 |
| 1/1 | 1/1 | 6.76 | 4.08 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.29 | 3.63 |
| 1/1 | 0/1 | 2.88 | 2.29 |
| 1/1 | 1/1 | 5.8 | 5.27 |
| 1/1 | 1/1 | 4.88 | 4.39 |
| 1/1 | 1/1 | 4.93 | 4.46 |
| 1/1 | 1/1 | 6.52 | 6.06 |
| 1/1 | 1/1 | 3.5 | 3.12 |
| 1/1 | 1/1 | 5.02 | 4.65 |
| 1/1 | 1/1 | 6.07 | 5.82 |
| 0/1 | 1/1 | 2.99 | 2.9 |
| 0/1 | 1/1 | 2.08 | 2.99 |
| 1/1 | 1/1 | 3.41 | 2.16 |
| 0/1 | 1/1 | 2.01 | 3.69 |
| 1/1 | 1/1 | 7.25 | 4.78 |
| 1/1 | 1/1 | 6.53 | 4.2 |
| 1/1 | 1/1 | 5.05 | 5.07 |
| 0/1 | 1/1 | 2.87 | 2.88 |
| 0/1 | 1/1 | 4.43 | 4.44 |
| 1/1 | 1/1 | 3.38 | 3.44 |
| 1/1 | 1/1 | 10.37 | 10.57 |
| 1/1 | 1/1 | 5.77 | 4.21 |
| 1/1 | 1/1 | 5.36 | 6.04 |
| 1/1 | 1/1 | 4.87 | 5.66 |
| 1/1 | 1/1 | 3.93 | 4.87 |
| 0/1 | 1/1 | 3.2 | 4.28 |
| 0/1 | 1/1 | 2.84 | 4.77 |
| 1/1 | 1/1 | 4.35 | 3.41 |
| 1/1 | 1/1 | 4.86 | 6.33 |
| 1/1 | 1/1 | 9.64 | 9.02 |
| 1/1 | 1/1 | 6.95 | 6.35 |
| 0/1 | 1/1 | 3.78 | 5.75 |
| 0/1 | 1/1 | 3.24 | 5.69 |
| 1/1 | 1/1 | 8.22 | 8.04 |
| 1/1 | 1/1 | 8.25 | 8.21 |
| 1/1 | 0/1 | 8.75 | 7.4 |
| 0/1 | 1/1 | 3.93 | 4.87 |
| 1/1 | 1/1 | 6.17 | 7.44 |
| 0/1 | 1/1 | 4.82 | 4.04 |
| 1/1 | 1/1 | 6.35 | 5.69 |
| 1/1 | 0/1 | 5.11 | 4.42 |
| 1/1 | 1/1 | 4.33 | 6.2 |
| 1/1 | 1/1 | 4.51 | 4.14 |
| 1/1 | 1/1 | 4.47 | 4.14 |
| 1/1 | 1/1 | 3.59 | 3.41 |
| 1/1 | 1/1 | 5.25 | 7.15 |
| 1/1 | 1/1 | 6.06 | 4.91 |
| 0/1 | 1/1 | 2.18 | 3.27 |
| 1/1 | 1/1 | 5.04 | 6.18 |
| 1/1 | 1/1 | 3.4 | 4.67 |
| 1/1 | 0/1 | 7.39 | 4.12 |
| 1/1 | 1/1 | 8.61 | 5.5 |
| 1/1 | 1/1 | 5.39 | 4.36 |
| 1/1 | 0/1 | 8.23 | 7.38 |
| 1/1 | 1/1 | 7.39 | 6.56 |
| 1/1 | 1/1 | 7.75 | 6.93 |
| 1/1 | 1/1 | 8.79 | 7.99 |
| 1/1 | 1/1 | 7.64 | 7.02 |
| 1/1 | 1/1 | 8.88 | 8.35 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.45 | 5.93 |
| 1/1 | 1/1 | 4.01 | 3.76 |
| 1/1 | 1/1 | 7.06 | 6.88 |
| 1/1 | 1/1 | 8.26 | 8.1 |
| 1/1 | 1/1 | 6.18 | 6.1 |
| 1/1 | 1/1 | 8.36 | 8.31 |
| 1/1 | 1/1 | 9.52 | 9.5 |
| 1/1 | 1/1 | 6.28 | 6.3 |
| 1/1 | 1/1 | 5.87 | 5.99 |
| 1/1 | 0/1 | 3.55 | 2.22 |
| 1/1 | 1/1 | 5.04 | 3.85 |
| 1/1 | 0/1 | 6 | 2.34 |
| 1/1 | 0/1 | 3.75 | 2.3 |
| 1/1 | 0/1 | 3.95 | 2.99 |
| 1/1 | 0/1 | 3.22 | 2.4 |
| 1/1 | 1/1 | 7.4 | 6.61 |
| 0/1 | 1/1 | 3.73 | 3.23 |
| 1/1 | 1/1 | 7.21 | 7.15 |
| 1/1 | 1/1 | 2.86 | 2.9 |
| 1/1 | 1/1 | 3.07 | 3.81 |
| 1/1 | 0/1 | 6.65 | 4.15 |
| 1/1 | 1/1 | 7.4 | 5.02 |
| 1/1 | 1/1 | 8.92 | 8.65 |
| 1/1 | 1/1 | 7.82 | 7.6 |
| 1/1 | 1/1 | 8.97 | 8.8 |
| 1/1 | 1/1 | 5.05 | 5.25 |
| 1/1 | 1/1 | 7 | 7.26 |
| 1/1 | 1/1 | 6.53 | 7.28 |
| 1/1 | 1/1 | 4.09 | 4.85 |
| 1/1 | 1/1 | 6.2 | 7.53 |
| 1/1 | 0/1 | 6.65 | 4.15 |
| 1/1 | 1/1 | 7.4 | 5.02 |
| 1/1 | 1/1 | 8.92 | 8.65 |
| 1/1 | 1/1 | 7.82 | 7.6 |
| 1/1 | 1/1 | 8.69 | 8.5 |
| 1/1 | 1/1 | 8.97 | 8.8 |
| 1/1 | 1/1 | 7.46 | 7.6 |
| 1/1 | 1/1 | 5.55 | 6.8 |
| 1/1 | 1/1 | 5.64 | 5.02 |
| 1/1 | 1/1 | 6.63 | 6.03 |
| 1/1 | 1/1 | 7.3 | 6.8 |
| 1/1 | 1/1 | 7.5 | 6.14 |
| 0/1 | 1/1 | 2.76 | 3.62 |
| 0/1 | 1/1 | 3.06 | 5.97 |
| 1/1 | 1/1 | 8.93 | 7.56 |
| 0/1 | 1/1 | 4.19 | 5.05 |
| 0/1 | 1/1 | 2.95 | 3.93 |
| 0/1 | 1/1 | 2.91 | 3.93 |
| 0/1 | 1/1 | 2.96 | 4.28 |
| 1/1 | 1/1 | 3.42 | 4.99 |
| 1/1 | 1/1 | 4.06 | 3.56 |
| 1/1 | 1/1 | 4.43 | 6.6 |
| 1/1 | 1/1 | 5.23 | 7.46 |
| 1/1 | 0/1 | 2.48 | 2.05 |
| 1/1 | 1/1 | 6.17 | 5.78 |
| 1/1 | 1/1 | 6.54 | 8.35 |
| 1/1 | 1/1 | 6.67 | 5.98 |
| 1/1 | 1/1 | 7.05 | 6.57 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.47 | 9.41 |
| 1/1 | 1/1 | 3.76 | 6.09 |
| 1/1 | 1/1 | 5.61 | 8.04 |
| 1/1 | 1/1 | 5.53 | 8.18 |
| 0/1 | 1/1 | 1.88 | 5.26 |
| 1/1 | 0/1 | 6.85 | 4.95 |
| 1/1 | 1/1 | 6.63 | 6.95 |
| 1/1 | 0/1 | 5.44 | 4.35 |
| 1/1 | 1/1 | 7.35 | 6.34 |
| 1/1 | 1/1 | 8.3 | 7.43 |
| 1/1 | 1/1 | 9.3 | 7.85 |
| 1/1 | 1/1 | 11.43 | 10.03 |
| 1/1 | 1/1 | 11.19 | 9.93 |
| 1/1 | 1/1 | 8.05 | 8.81 |
| 1/1 | 1/1 | 4.9 | 6.25 |
| 1/1 | 0/1 | 3.69 | 2.45 |
| 1/1 | 1/1 | 6.13 | 4.99 |
| 1/1 | 1/1 | 3.94 | 4.99 |
| 1/1 | 1/1 | 4.22 | 5.31 |
| 0/1 | 1/1 | 2.9 | 4.41 |
| 0/1 | 1/1 | 2.17 | 4.64 |
| 0/1 | 1/1 | 6.6 | 6.3 |
| 1/1 | 1/1 | 9.71 | 9.45 |
| 1/1 | 1/1 | 7.05 | 6.82 |
| 1/1 | 1/1 | 7.49 | 7.32 |
| 1/1 | 1/1 | 6.42 | 6.28 |
| 1/1 | 1/1 | 5.86 | 5.77 |
| 1/1 | 1/1 | 12.78 | 10.53 |
| 1/1 | 1/1 | 5.14 | 5.09 |
| 1/1 | 1/1 | 5.43 | 5.39 |
| 1/1 | 1/1 | 7.88 | 7.88 |
| 0/1 | 1/1 | 2.57 | 2.93 |
| 1/1 | 1/1 | 5.8 | 6.62 |
| 1/1 | 1/1 | 6.19 | 5.62 |
| 1/1 | 1/1 | 4.06 | 3.67 |
| 1/1 | 1/1 | 5.24 | 6.89 |
| 0/1 | 1/1 | 2.97 | 5.12 |
| 1/1 | 1/1 | 5.53 | 3.62 |
| 1/1 | 1/1 | 2.86 | 3.27 |
| 1/1 | 1/1 | 6.36 | 6.86 |
| 1/1 | 1/1 | 3.8 | 4.42 |
| 1/1 | 1/1 | 6.64 | 7.54 |
| 0/1 | 1/1 | 4.47 | 5.82 |
| 1/1 | 1/1 | 8.28 | 9.7 |
| 1/1 | 1/1 | 7.04 | 5.36 |
| 1/1 | 1/1 | 6.59 | 4.99 |
| 0/1 | 1/1 | 3.27 | 4.04 |
| 1/1 | 0/1 | 6.26 | 5.44 |
| 1/1 | 1/1 | 5.67 | 4.85 |
| 1/1 | 1/1 | 3.72 | 5.18 |
| 1/1 | 1/1 | 4.43 | 5.96 |
| 1/1 | 1/1 | 5.57 | 7.12 |
| 0/1 | 1/1 | 5.13 | 6.93 |
| 0/1 | 1/1 | 4.78 | 6.65 |
| 1/1 | 0/1 | 5.4 | 2.93 |
| 1/1 | 1/1 | 5.85 | 5.62 |
| 1/1 | 1/1 | 7.63 | 7.53 |
| 1/1 | 1/1 | 10.91 | 10.91 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.67 | 9.77 |
| 0/1 | 1/1 | 2.74 | 3.36 |
| 1/1 | 1/1 | 9.1 | 9.85 |
| 1/1 | 0/1 | 4.98 | 2.97 |
| 1/1 | 1/1 | 2.89 | 3.54 |
| 0/1 | 1/1 | 2.7 | 3.51 |
| 1/1 | 1/1 | 10.17 | 8.72 |
| 1/1 | 1/1 | 6.25 | 7.02 |
| 1/1 | 1/1 | 4.09 | 4.86 |
| 1/1 | 1/1 | 4.31 | 5.38 |
| 1/1 | 1/1 | 5.47 | 6.66 |
| 1/1 | 1/1 | 6.51 | 5.73 |
| 1/1 | 0/1 | 3.66 | 3.01 |
| 0/1 | 1/1 | 2.4 | 4.03 |
| 1/1 | 1/1 | 8.59 | 8.57 |
| 1/1 | 1/1 | 6.63 | 6.66 |
| 1/1 | 1/1 | 8.24 | 8.28 |
| 1/1 | 1/1 | 4.16 | 6.46 |
| 1/1 | 1/1 | 5.43 | 7.85 |
| 0/1 | 1/1 | 3.76 | 6.85 |
| 1/1 | 1/1 | 6.68 | 3.38 |
| 1/1 | 1/1 | 5.66 | 4.7 |
| 1/1 | 1/1 | 12.21 | 11.34 |
| 1/1 | 1/1 | 12.68 | 12.75 |
| 0/1 | 1/1 | 3.58 | 4.01 |
| 1/1 | 1/1 | 6.55 | 3.94 |
| 0/1 | 1/1 | 5.91 | 5.66 |
| 1/1 | 1/1 | 7.2 | 6.97 |
| 0/1 | 1/1 | 5.68 | 5.54 |
| 1/1 | 1/1 | 8 | 7.93 |
| 1/1 | 1/1 | 7.3 | 7.36 |
| 1/1 | 1/1 | 8.14 | 8.21 |
| 1/1 | 1/1 | 3.98 | 4.71 |
| 1/1 | 0/1 | 5.2 | 4.52 |
| 1/1 | 1/1 | 5.69 | 5.14 |
| 1/1 | 1/1 | 4.22 | 3.47 |
| 1/1 | 1/1 | 7.96 | 7.24 |
| 1/1 | 1/1 | 7.46 | 8.97 |
| 0/1 | 1/1 | 4.17 | 5.75 |
| 1/1 | 1/1 | 2.69 | 5.11 |
| 1/1 | 0/1 | 5.78 | 4.68 |
| 1/1 | 1/1 | 6.41 | 7.55 |
| 1/1 | 1/1 | 4.67 | 5.86 |
| 1/1 | 1/1 | 6.34 | 8.24 |
| 1/1 | 1/1 | 6.1 | 3.49 |
| 1/1 | 1/1 | 8.84 | 8.58 |
| 0/1 | 1/1 | 3.59 | 3.62 |
| 0/1 | 1/1 | 9.27 | 9.53 |
| 0/1 | 1/1 | 4.22 | 6 |
| 1/1 | 1/1 | 9.02 | 8.12 |
| 1/1 | 1/1 | 3.41 | 2.67 |
| 0/1 | 1/1 | 3.89 | 5.22 |
| 1/1 | 1/1 | 4.2 | 5.56 |
| 0/1 | 1/1 | 3.37 | 4.77 |
| 0/1 | 1/1 | 2.9 | 4.36 |
| 1/1 | 1/1 | 5.08 | 6.95 |
| 1/1 | 1/1 | 9.19 | 8.09 |
| 1/1 | 1/1 | 5.08 | 4.01 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.05 | 4.98 |
| 0/1 | 1/1 | 2.74 | 4.18 |
| 1/1 | 1/1 | 11.08 | 10.93 |
| 1/1 | 1/1 | 5.17 | 5.06 |
| 0/1 | 1/1 | 3.56 | 3.47 |
| 0/1 | 1/1 | 4.05 | 3.87 |
| 0/1 | 1/1 | 2.43 | 4.97 |
| 1/1 | 0/1 | 5.05 | 3.54 |
| 1/1 | 1/1 | 6.45 | 5.15 |
| 0/1 | 1/1 | 1.82 | 3.16 |
| 1/1 | 1/1 | 7.54 | 7.34 |
| 1/1 | 1/1 | 5.76 | 5.6 |
| 1/1 | 1/1 | 10.9 | 10.9 |
| 0/1 | 1/1 | 3.1 | 5.63 |
| 1/1 | 0/1 | 4.92 | 3.96 |
| 1/1 | 1/1 | 6.28 | 7.57 |
| 1/1 | 1/1 | 10.23 | 9.87 |
| 1/1 | 1/1 | 3.76 | 5.73 |
| 0/1 | 1/1 | 3.2 | 5.51 |
| 1/1 | 1/1 | 5.42 | 3.64 |
| 1/1 | 1/1 | 10.61 | 11.14 |
| 1/1 | 0/1 | 4.6 | 3.59 |
| 1/1 | 1/1 | 6.95 | 6.08 |
| 1/1 | 1/1 | 5.14 | 3.56 |
| 1/1 | 0/1 | 4.37 | 2.91 |
| 1/1 | 1/1 | 8.5 | 9.13 |
| 1/1 | 1/1 | 4.44 | 5.08 |
| 0/1 | 1/1 | 1.95 | 2.59 |
| 0/1 | 1/1 | 3.95 | 4.62 |
| 1/1 | 1/1 | 5.84 | 6.51 |
| 1/1 | 1/1 | 6.43 | 7.12 |
| 0/1 | 1/1 | 3.51 | 4.38 |
| 1/1 | 0/1 | 3.92 | 2.62 |
| 1/1 | 1/1 | 5 | 3.84 |
| 1/1 | 1/1 | 4.01 | 4.94 |
| 1/1 | 1/1 | 5.27 | 6.26 |
| 0/1 | 1/1 | 2.79 | 3.78 |
| 1/1 | 1/1 | 4.48 | 5.66 |
| 0/1 | 1/1 | 3.83 | 5.73 |
| 1/1 | 1/1 | 7.34 | 6.43 |
| 1/1 | 1/1 | 5.89 | 5.18 |
| 0/1 | 1/1 | 4.24 | 5.89 |
| 1/1 | 1/1 | 7.33 | 5.63 |
| 1/1 | 1/1 | 6.37 | 4.73 |
| 0/1 | 1/1 | 2.38 | 3.83 |
| 1/1 | 1/1 | 4.34 | 3.74 |
| 1/1 | 1/1 | 5.24 | 4.65 |
| 1/1 | 1/1 | 3.61 | 3.04 |
| 1/1 | 1/1 | 9.29 | 8.92 |
| 1/1 | 1/1 | 4.92 | 4.55 |
| 1/1 | 1/1 | 8.13 | 7.79 |
| 0/1 | 1/1 | 5.2 | 4.93 |
| 1/1 | 1/1 | 6.71 | 5.64 |
| 0/1 | 1/1 | 2.71 | 4.22 |
| 1/1 | 0/1 | 5.76 | 4.93 |
| 1/1 | 1/1 | 6.04 | 5.23 |
| 0/1 | 1/1 | 4.22 | 5.68 |
| 1/1 | 1/1 | 6.51 | 5.73 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 3.66 | 3.01 |
| 0/1 | 1/1 | 2.4 | 4.03 |
| 1/1 | 1/1 | 6.4 | 3.67 |
| 1/1 | 1/1 | 8.06 | 5.52 |
| 1/1 | 1/1 | 5.11 | 4.61 |
| 0/1 | 1/1 | 3.31 | 2.86 |
| 1/1 | 1/1 | 3.43 | 3 |
| 1/1 | 1/1 | 4.28 | 3.85 |
| 1/1 | 0/1 | 3.04 | 2.7 |
| 1/1 | 1/1 | 8.14 | 7.8 |
| 1/1 | 1/1 | 3.39 | 3.06 |
| 1/1 | 0/1 | 2.78 | 2.45 |
| 0/1 | 1/1 | 2.92 | 2.61 |
| 1/1 | 1/1 | 8.31 | 8.05 |
| 1/1 | 1/1 | 6.86 | 6.63 |
| 0/1 | 1/1 | 4.47 | 4.27 |
| 1/1 | 1/1 | 4.5 | 4.31 |
| 0/1 | 1/1 | 3.1 | 2.93 |
| 1/1 | 1/1 | 10.63 | 10.53 |
| 0/1 | 1/1 | 2.66 | 2.59 |
| 1/1 | 1/1 | 4.43 | 4.37 |
| 1/1 | 1/1 | 3.77 | 3.72 |
| 1/1 | 1/1 | 10.59 | 10.58 |
| 1/1 | 1/1 | 9.81 | 9.87 |
| 1/1 | 1/1 | 5.52 | 5.62 |
| 1/1 | 1/1 | 8.35 | 8.47 |
| 1/1 | 1/1 | 6.05 | 6.25 |
| 0/1 | 1/1 | 2.59 | 2.81 |
| 0/1 | 1/1 | 2.79 | 3.12 |
| 0/1 | 1/1 | 4.56 | 4.98 |
| 0/1 | 1/1 | 3.86 | 4.29 |
| 0/1 | 1/1 | 2.44 | 2.88 |
| 0/1 | 1/1 | 2.18 | 2.62 |
| 1/1 | 1/1 | 5.35 | 5.94 |
| 0/1 | 1/1 | 2.13 | 2.82 |
| 0/1 | 1/1 | 3.78 | 4.54 |
| 1/1 | 1/1 | 6.62 | 6.2 |
| 1/1 | 1/1 | 4.24 | 6.8 |
| 1/1 | 1/1 | 3.18 | 2.47 |
| 1/1 | 1/1 | 8.35 | 7.75 |
| 1/1 | 1/1 | 7.71 | 6.56 |
| 1/1 | 0/1 | 3.72 | 2.65 |
| 0/1 | 1/1 | 3.12 | 4.18 |
| 0/1 | 1/1 | 2.67 | 4.3 |
| 1/1 | 1/1 | 6.29 | 5.91 |
| 1/1 | 1/1 | 4.05 | 3.68 |
| 1/1 | 1/1 | 7.33 | 7.08 |
| 1/1 | 0/1 | 2.48 | 2.05 |
| 1/1 | 1/1 | 6.17 | 5.78 |
| 1/1 | 1/1 | 6.85 | 6.61 |
| 1/1 | 1/1 | 4.43 | 3.38 |
| 1/1 | 1/1 | 5.25 | 4.39 |
| 1/1 | 1/1 | 5.79 | 7.23 |
| 1/1 | 0/1 | 8.75 | 6.04 |
| 1/1 | 1/1 | 7.82 | 5.25 |
| 1/1 | 1/1 | 7.66 | 7.24 |
| 1/1 | 1/1 | 7.34 | 6.59 |
| 1/1 | 1/1 | 7.86 | 7.14 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 8.98 | 8.31 |
| 1/1 | 1/1 | 5.2 | 4.54 |
| 1/1 | 1/1 | 5.85 | 5.21 |
| 1/1 | 1/1 | 7.42 | 6.77 |
| 1/1 | 1/1 | 4.6 | 6.13 |
| 1/1 | 1/1 | 5.26 | 7.1 |
| 1/1 | 1/1 | 6.81 | 6.1 |
| 0/1 | 1/1 | 6.26 | 5.73 |
| 1/1 | 0/1 | 7.33 | 6.28 |
| 0/1 | 1/1 | 4.8 | 6 |
| 1/1 | 0/1 | 7.33 | 6.28 |
| 0/1 | 1/1 | 4.8 | 6 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 1/1 | 4.28 | 3.89 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 1/1 | 4.28 | 3.89 |
| 1/1 | 1/1 | 8.39 | 7.15 |
| 1/1 | 1/1 | 6.83 | 5.76 |
| 1/1 | 1/1 | 6.37 | 4.01 |
| 0/1 | 1/1 | 3.29 | 3.42 |
| 1/1 | 1/1 | 8.01 | 6.83 |
| 1/1 | 0/1 | 6.13 | 4.97 |
| 1/1 | 1/1 | 6.41 | 5.43 |
| 0/1 | 1/1 | 3.88 | 5.49 |
| 0/1 | 1/1 | 4.11 | 5.72 |
| 1/1 | 1/1 | 6.88 | 6.85 |
| 0/1 | 1/1 | 4.14 | 4.11 |
| 1/1 | 1/1 | 6.83 | 6.85 |
| 1/1 | 1/1 | 6.48 | 6.58 |
| 0/1 | 1/1 | 6.63 | 6.75 |
| 1/1 | 1/1 | 5.12 | 3.99 |
| 1/1 | 1/1 | 4.28 | 5.46 |
| 1/1 | 1/1 | 6.5 | 7.81 |
| 1/1 | 1/1 | 7.95 | 6.72 |
| 1/1 | 0/1 | 4.9 | 3.79 |
| 0/1 | 1/1 | 2.84 | 3.92 |
| 1/1 | 1/1 | 4.4 | 5.48 |
| 1/1 | 1/1 | 4.51 | 5.62 |
| 1/1 | 1/1 | 4.19 | 5.72 |
| 1/1 | 0/1 | 3.38 | 2.2 |
| 1/1 | 0/1 | 2.84 | 1.77 |
| 1/1 | 1/1 | 7.69 | 9.04 |
| 0/1 | 1/1 | 3.85 | 5.38 |
| 1/1 | 1/1 | 3.95 | 2.88 |
| 1/1 | 1/1 | 6.05 | 5.1 |
| 1/1 | 1/1 | 4.43 | 3.49 |
| 1/1 | 1/1 | 3.53 | 2.65 |
| 1/1 | 1/1 | 4.42 | 5.66 |
| 1/1 | 1/1 | 4.38 | 5.98 |
| 1/1 | 1/1 | 4.13 | 6 |
| 1/1 | 1/1 | 5.53 | 4.45 |
| 1/1 | 1/1 | 6.38 | 5.38 |
| 1/1 | 1/1 | 6.21 | 5.22 |
| 1/1 | 1/1 | 5.22 | 4.28 |
| 0/1 | 1/1 | 2.64 | 3.8 |
| 0/1 | 1/1 | 4.46 | 5.65 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.31 | 3.67 |
| 0/1 | 1/1 | 2.15 | 3.59 |
| 0/1 | 1/1 | 4.08 | 5.58 |
| 1/1 | 1/1 | 5.4 | 7 |
| 0/1 | 1/1 | 2.83 | 5.18 |
| 0/1 | 1/1 | 3.61 | 6.15 |
| 0/1 | 1/1 | 2.22 | 4.83 |
| 0/1 | 1/1 | 2.57 | 5.37 |
| 1/1 | 0/1 | 4.3 | 3.4 |
| 0/1 | 1/1 | 2.96 | 4.31 |
| 1/1 | 1/1 | 6.8 | 8.23 |
| 1/1 | 1/1 | 4.11 | 5.74 |
| 1/1 | 1/1 | 4.38 | 6.02 |
| 1/1 | 1/1 | 4.06 | 5.79 |
| 1/1 | 1/1 | 4.33 | 6.39 |
| 1/1 | 1/1 | 4.09 | 3 |
| 1/1 | 1/1 | 6.28 | 5.25 |
| 0/1 | 1/1 | 3.53 | 5.05 |
| 0/1 | 1/1 | 3.49 | 5.48 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 1/1 | 4.28 | 3.89 |
| 1/1 | 0/1 | 4.52 | 2.83 |
| 1/1 | 0/1 | 5.05 | 3.54 |
| 0/1 | 1/1 | 2.52 | 3.22 |
| 1/1 | 1/1 | 4.55 | 5.26 |
| 0/1 | 1/1 | 2.8 | 3.68 |
| 1/1 | 1/1 | 7.17 | 7.03 |
| 0/1 | 1/1 | 5.23 | 7.46 |
| 0/1 | 1/1 | 2.52 | 4.77 |
| 0/1 | 1/1 | 2.76 | 5.21 |
| 1/1 | 1/1 | 5.04 | 7.88 |
| 0/1 | 1/1 | 5.5 | 8.78 |
| 0/1 | 1/1 | 4.3 | 8.68 |
| 0/1 | 1/1 | 3.98 | 8.52 |
| 0/1 | 1/1 | 3.24 | 9.05 |
| 1/1 | 1/1 | 10.85 | 8.99 |
| 0/1 | 1/1 | 3.88 | 4.38 |
| 0/1 | 1/1 | 3.71 | 4.42 |
| 1/1 | 1/1 | 5.63 | 6.34 |
| 1/1 | 1/1 | 8.6 | 7.15 |
| 0/1 | 1/1 | 2.88 | 3.79 |
| 1/1 | 1/1 | 4.27 | 5.37 |
| 1/1 | 1/1 | 6.59 | 5.64 |
| 1/1 | 1/1 | 7.82 | 9.1 |
| 1/1 | 1/1 | 3.89 | 5.23 |
| 1/1 | 1/1 | 7 | 8.35 |
| 1/1 | 1/1 | 7.69 | 9.19 |
| 1/1 | 1/1 | 5.36 | 6.94 |
| 0/1 | 1/1 | 3.32 | 5.02 |
| 0/1 | 1/1 | 3.84 | 6.33 |
| 1/1 | 1/1 | 6.13 | 5.31 |
| 1/1 | 0/1 | 5.38 | 4.66 |
| 1/1 | 1/1 | 8.14 | 7.52 |
| 1/1 | 1/1 | 9.8 | 11.44 |
| 1/1 | 1/1 | 5.42 | 4.67 |
| 1/1 | 1/1 | 6.02 | 5.34 |
| 1/1 | 1/1 | 4.62 | 3.08 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 2.24 | 2.97 |
| 1/1 | 0/1 | 7.33 | 6.28 |
| 0/1 | 1/1 | 4.8 | 6 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 6.51 | 5.98 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 1/1 | 4.28 | 3.89 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 1/1 | 4.28 | 3.89 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 1/1 | 4.28 | 3.89 |
| 1/1 | 0/1 | 7.33 | 6.28 |
| 0/1 | 1/1 | 4.8 | 6 |
| 1/1 | 0/1 | 7.33 | 6.28 |
| 0/1 | 1/1 | 4.8 | 6 |
| 1/1 | 1/1 | 6.04 | 4.82 |
| 1/1 | 0/1 | 5.55 | 4.53 |
| 0/1 | 1/1 | 4.78 | 4.2 |
| 1/1 | 1/1 | 6.34 | 5.81 |
| 1/1 | 1/1 | 6.71 | 6.24 |
| 1/1 | 1/1 | 6.42 | 4.27 |
| 1/1 | 1/1 | 8.21 | 6.12 |
| 1/1 | 1/1 | 7.32 | 7.52 |
| 0/1 | 1/1 | 6.28 | 6.65 |
| 1/1 | 1/1 | 4.75 | 2.91 |
| 1/1 | 0/1 | 5.02 | 3.38 |
| 0/1 | 1/1 | 3.06 | 3.82 |
| 1/1 | 1/1 | 5.66 | 4.66 |
| 1/1 | 1/1 | 5.63 | 4.69 |
| 1/1 | 1/1 | 8.13 | 7.19 |
| 1/1 | 1/1 | 5.19 | 3.25 |
| 0/1 | 1/1 | 3.91 | 4.19 |
| 1/1 | 1/1 | 5.89 | 6.81 |
| 1/1 | 1/1 | 6.7 | 5.38 |
| 1/1 | 1/1 | 4.51 | 3.35 |
| 1/1 | 1/1 | 7.59 | 6.68 |
| 1/1 | 1/1 | 4.21 | 5.57 |
| 0/1 | 1/1 | 2.52 | 3.88 |
| 1/1 | 1/1 | 4.56 | 6.11 |
| 1/1 | 1/1 | 3.39 | 4.95 |
| 0/1 | 1/1 | 3.02 | 5.01 |
| 1/1 | 1/1 | 3.03 | 5.53 |
| 1/1 | 1/1 | 8.25 | 7.43 |
| 1/1 | 0/1 | 8.19 | 7.49 |
| 1/1 | 0/1 | 2.81 | 1.77 |
| 1/1 | 1/1 | 6.39 | 7.71 |
| 1/1 | 1/1 | 5.77 | 7.83 |
| 1/1 | 1/1 | 6.66 | 5.47 |
| 1/1 | 1/1 | 5.66 | 6.75 |
| 1/1 | 0/1 | 3.54 | 3.1 |
| 1/1 | 1/1 | 9.91 | 9.57 |
| 1/1 | 1/1 | 3.22 | 5.29 |
| 1/1 | 1/1 | 4.28 | 6.72 |
| 1/1 | 1/1 | 5.37 | 4.82 |
| 1/1 | 1/1 | 6.63 | 6.25 |
| 1/1 | 1/1 | 7.63 | 7.21 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.58 | 5.24 |
| 1/1 | 1/1 | 9.65 | 9.39 |
| 0/1 | 1/1 | 4.71 | 6.55 |
| 0/1 | 1/1 | 4.71 | 6.58 |
| 1/1 | 1/1 | 7.1 | 4.86 |
| 1/1 | 1/1 | 3.42 | 3.41 |
| 1/1 | 1/1 | 10.22 | 10.47 |
| 1/1 | 1/1 | 10.6 | 10.99 |
| 1/1 | 1/1 | 7.17 | 6.92 |
| 1/1 | 1/1 | 2.52 | 2.33 |
| 1/1 | 1/1 | 8.16 | 7.71 |
| 1/1 | 1/1 | 5.06 | 4.79 |
| 1/1 | 1/1 | 3.56 | 5.4 |
| 1/1 | 1/1 | 4.72 | 6.61 |
| 1/1 | 1/1 | 4.17 | 6.66 |
| 1/1 | 1/1 | 5.44 | 4.12 |
| 1/1 | 1/1 | 5.71 | 6.8 |
| 1/1 | 1/1 | 3.77 | 3.46 |
| 1/1 | 1/1 | 4.36 | 6.42 |
| 1/1 | 1/1 | 5.4 | 7.48 |
| 1/1 | 1/1 | 4.95 | 7.12 |
| 0/1 | 1/1 | 4.35 | 6.86 |
| 1/1 | 1/1 | 9.87 | 9.22 |
| 1/1 | 1/1 | 7.96 | 7.41 |
| 1/1 | 1/1 | 4.62 | 6.31 |
| 1/1 | 1/1 | 11.03 | 10.87 |
| 1/1 | 1/1 | 5 | 7.09 |
| 1/1 | 1/1 | 3.77 | 5.96 |
| 0/1 | 1/1 | 3.36 | 5.88 |
| 1/1 | 1/1 | 4.85 | 3.07 |
| 1/1 | 0/1 | 3.67 | 2.02 |
| 0/1 | 1/1 | 2.44 | 3.13 |
| 0/1 | 1/1 | 5.88 | 6.65 |
| 1/1 | 1/1 | 3.17 | 4.34 |
| 0/1 | 1/1 | 2.32 | 4.09 |
| 1/1 | 1/1 | 6.74 | 4.32 |
| 0/1 | 1/1 | 3.09 | 2.93 |
| 0/1 | 1/1 | 3.26 | 3.43 |
| 1/1 | 1/1 | 10.17 | 9.87 |
| 1/1 | 1/1 | 5.59 | 5.36 |
| 1/1 | 0/1 | 5.16 | 4.04 |
| 1/1 | 1/1 | 4.83 | 3.9 |
| 1/1 | 1/1 | 7.92 | 5.18 |
| 1/1 | 0/1 | 5.48 | 2.8 |
| 1/1 | 1/1 | 6.67 | 6.59 |
| 0/1 | 1/1 | 7.26 | 7.26 |
| 1/1 | 1/1 | 4.1 | 4.11 |
| 0/1 | 1/1 | 6.93 | 7.1 |
| 0/1 | 1/1 | 2.96 | 3.87 |
| 1/1 | 1/1 | 6.06 | 3.83 |
| 1/1 | 1/1 | 7.31 | 5.1 |
| 1/1 | 1/1 | 5.36 | 3.18 |
| 1/1 | 1/1 | 5.07 | 2.95 |
| 1/1 | 1/1 | 6.85 | 4.77 |
| 1/1 | 1/1 | 5.22 | 3.15 |
| 1/1 | 1/1 | 6.32 | 6.3 |
| 1/1 | 1/1 | 7.66 | 7.79 |
| 1/1 | 1/1 | 2.44 | 2.6 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 5.45 | 5.63 |
| 0/1 | 1/1 | 4.2 | 4.4 |
| 0/1 | 1/1 | 3.42 | 3.63 |
| 1/1 | 1/1 | 5.63 | 4.04 |
| 0/1 | 1/1 | 3.93 | 4.83 |
| 1/1 | 1/1 | 5.81 | 4.67 |
| 1/1 | 1/1 | 2.6 | 3.8 |
| 1/1 | 1/1 | 5.13 | 4.58 |
| 1/1 | 1/1 | 3.24 | 2.77 |
| 1/1 | 1/1 | 2.75 | 2.3 |
| 1/1 | 1/1 | 5.77 | 7.41 |
| 0/1 | 1/1 | 2.29 | 4.31 |
| 1/1 | 0/1 | 3.15 | 1.85 |
| 1/1 | 1/1 | 9.65 | 8.45 |
| 1/1 | 0/1 | 4.38 | 3.21 |
| 1/1 | 1/1 | 7.97 | 6.82 |
| 1/1 | 0/1 | 4.59 | 3.48 |
| 1/1 | 1/1 | 10.47 | 8.37 |
| 1/1 | 1/1 | 8.31 | 6.25 |
| 1/1 | 1/1 | 5.9 | 6.24 |
| 1/1 | 1/1 | 8.3 | 8.66 |
| 1/1 | 1/1 | 4.35 | 4.86 |
| 1/1 | 1/1 | 6.82 | 5.23 |
| 1/1 | 1/1 | 6.51 | 5.08 |
| 1/1 | 0/1 | 11.7 | 10.6 |
| 1/1 | 0/1 | 5.62 | 4.68 |
| 1/1 | 1/1 | 8.76 | 8.33 |
| 1/1 | 1/1 | 5.74 | 7.57 |
| 0/1 | 1/1 | 2.9 | 4.8 |
| 1/1 | 1/1 | 7.94 | 6.52 |
| 0/1 | 1/1 | 5.28 | 6.23 |
| 0/1 | 1/1 | 4.42 | 5.74 |
| 0/1 | 1/1 | 2.91 | 4.29 |
| 0/1 | 1/1 | 4.51 | 6.63 |
| 1/1 | 1/1 | 9.93 | 8.91 |
| 1/1 | 1/1 | 7.22 | 6.33 |
| 1/1 | 1/1 | 8.29 | 7.86 |
| 1/1 | 1/1 | 4.97 | 4.55 |
| 1/1 | 1/1 | 5.1 | 4.38 |
| 1/1 | 1/1 | 4.82 | 6.9 |
| 1/1 | 1/1 | 7.85 | 6.72 |
| 0/1 | 1/1 | 2.28 | 3.51 |
| 1/1 | 1/1 | 8.65 | 7.77 |
| 0/1 | 1/1 | 4.12 | 5.53 |
| 0/1 | 1/1 | 3.54 | 3.05 |
| 1/1 | 1/1 | 4.84 | 4.36 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.99 | 5.52 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 1/1 | 6.5 | 5.92 |
| 1/1 | 1/1 | 5.43 | 5.03 |
| 1/1 | 0/1 | 3.87 | 3.01 |
| 1/1 | 0/1 | 4.42 | 3.63 |
| 1/1 | 1/1 | 3.95 | 3.27 |
| 1/1 | 1/1 | 7.38 | 6.96 |
| 0/1 | 1/1 | 6.82 | 6.44 |
| 1/1 | 1/1 | 5.18 | 7.25 |
| 0/1 | 1/1 | 3.05 | 7.54 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.02 | 7.02 |
| 1/1 | 1/1 | 2.63 | 2.65 |
| 1/1 | 1/1 | 4.71 | 4.78 |
| 1/1 | 1/1 | 8.2 | 8.3 |
| 0/1 | 1/1 | 2.39 | 2.5 |
| 1/1 | 1/1 | 7.48 | 7.6 |
| 1/1 | 1/1 | 7.25 | 9.43 |
| 1/1 | 1/1 | 6.67 | 9.06 |
| 1/1 | 1/1 | 8.02 | 10.58 |
| 1/1 | 1/1 | 5.4 | 7.96 |
| 1/1 | 1/1 | 7.16 | 10.05 |
| 1/1 | 1/1 | 7.02 | 5.64 |
| 1/1 | 1/1 | 5.69 | 4.46 |
| 1/1 | 1/1 | 5.43 | 6.59 |
| 1/1 | 1/1 | 5.21 | 3.4 |
| 1/1 | 1/1 | 8.38 | 6.65 |
| 1/1 | 1/1 | 8.52 | 8.99 |
| 1/1 | 1/1 | 4.47 | 4.95 |
| 0/1 | 1/1 | 7.73 | 8.22 |
| 0/1 | 1/1 | 5.08 | 5.58 |
| 1/1 | 1/1 | 7.22 | 7.76 |
| 1/1 | 1/1 | 8.39 | 7.56 |
| 1/1 | 1/1 | 6.28 | 7.65 |
| 1/1 | 1/1 | 5.07 | 3.92 |
| 0/1 | 1/1 | 3.12 | 4.25 |
| 0/1 | 1/1 | 3.5 | 4.68 |
| 1/1 | 1/1 | 9.21 | 8.56 |
| 1/1 | 1/1 | 5.69 | 5.05 |
| 1/1 | 1/1 | 4.41 | 5.94 |
| 1/1 | 1/1 | 2.9 | 2.6 |
| 1/1 | 1/1 | 9.19 | 8.88 |
| 1/1 | 1/1 | 6.38 | 6.12 |
| 1/1 | 1/1 | 3.72 | 5.75 |
| 1/1 | 0/1 | 4.19 | 2.48 |
| 1/1 | 1/1 | 2.95 | 3.41 |
| 0/1 | 1/1 | 2.26 | 2.72 |
| 1/1 | 1/1 | 2.92 | 3.4 |
| 1/1 | 1/1 | 3.23 | 3.75 |
| 1/1 | 1/1 | 4.73 | 5.28 |
| 1/1 | 1/1 | 4.06 | 4.72 |
| 1/1 | 1/1 | 4.61 | 5.45 |
| 1/1 | 1/1 | 4.53 | 3.86 |
| 1/1 | 1/1 | 8.23 | 7.69 |
| 1/1 | 0/1 | 4.94 | 3.62 |
| 0/1 | 1/1 | 2.27 | 3.22 |
| 1/1 | 1/1 | 7.26 | 6.05 |
| 1/1 | 1/1 | 4.05 | 2.91 |
| 0/1 | 1/1 | 2.8 | 4.03 |
| 1/1 | 1/1 | 11.59 | 10.76 |
| 1/1 | 1/1 | 3.57 | 5.19 |
| 1/1 | 1/1 | 5.95 | 4.97 |
| 0/1 | 1/1 | 4.49 | 5.82 |
| 1/1 | 0/1 | 5.09 | 3.1 |
| 1/1 | 1/1 | 4.36 | 4.85 |
| 0/1 | 1/1 | 2.29 | 2.99 |
| 0/1 | 1/1 | 2.2 | 3.18 |
| 1/1 | 0/1 | 6.78 | 4.54 |
| 1/1 | 1/1 | 9.19 | 9.16 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.67 | 8.78 |
| 0/1 | 1/1 | 4.23 | 4.84 |
| 1/1 | 1/1 | 4.42 | 4.18 |
| 0/1 | 1/1 | 4.44 | 4.37 |
| 1/1 | 1/1 | 5.77 | 5.47 |
| 1/1 | 1/1 | 8.12 | 7.83 |
| 1/1 | 1/1 | 10.09 | 9.81 |
| 1/1 | 1/1 | 5.87 | 4.29 |
| 0/1 | 1/1 | 2.94 | 4.3 |
| 0/1 | 1/1 | 3.35 | 3.01 |
| 1/1 | 1/1 | 9.21 | 8.88 |
| 1/1 | 1/1 | 5.25 | 7.32 |
| 1/1 | 1/1 | 9.76 | 4.92 |
| 1/1 | 1/1 | 12.94 | 11.74 |
| 1/1 | 1/1 | 12.95 | 12.15 |
| 1/1 | 1/1 | 7.24 | 6.99 |
| 1/1 | 1/1 | 7.24 | 7.02 |
| 1/1 | 1/1 | 7.37 | 7.22 |
| 1/1 | 1/1 | 10.6 | 10.52 |
| 1/1 | 1/1 | 7.39 | 6.7 |
| 0/1 | 1/1 | 5.24 | 4.66 |
| 1/1 | 1/1 | 4.72 | 6.35 |
| 0/1 | 1/1 | 3.31 | 5.38 |
| 1/1 | 1/1 | 8.76 | 7.98 |
| 0/1 | 1/1 | 3.29 | 5.39 |
| 1/1 | 1/1 | 6.68 | 5.87 |
| 1/1 | 0/1 | 3.78 | 3.01 |
| 1/1 | 1/1 | 6.67 | 6.01 |
| 1/1 | 1/1 | 7.73 | 9.13 |
| 1/1 | 1/1 | 7.63 | 6.35 |
| 1/1 | 1/1 | 2.71 | 3.64 |
| 1/1 | 1/1 | 5.44 | 6.68 |
| 1/1 | 1/1 | 4.19 | 5.5 |
| 1/1 | 1/1 | 4.53 | 3.86 |
| 1/1 | 1/1 | 8.23 | 7.69 |
| 1/1 | 1/1 | 4.53 | 3.86 |
| 1/1 | 1/1 | 8.23 | 7.69 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 1/1 | 4.53 | 3.86 |
| 1/1 | 1/1 | 8.23 | 7.69 |
| 0/1 | 1/1 | 3.4 | 4.92 |
| 1/1 | 1/1 | 5.64 | 4.25 |
| 0/1 | 1/1 | 2.71 | 3.53 |
| 1/1 | 1/1 | 7.93 | 6.9 |
| 0/1 | 1/1 | 3.13 | 4.34 |
| 1/1 | 1/1 | 5.93 | 4.55 |
| 1/1 | 1/1 | 6.73 | 5.45 |
| 1/1 | 1/1 | 5.5 | 6.37 |
| 1/1 | 1/1 | 3.81 | 4.71 |
| 0/1 | 1/1 | 3.54 | 4.46 |
| 1/1 | 1/1 | 4.11 | 5.74 |
| 1/1 | 1/1 | 5.93 | 4.55 |
| 1/1 | 1/1 | 6.73 | 5.45 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 5.5 | 6.37 |
| 1/1 | 1/1 | 3.81 | 4.71 |
| 0/1 | 1/1 | 3.54 | 4.46 |
| 0/1 | 1/1 | 2.31 | 3.61 |
| 1/1 | 0/1 | 3.42 | 2.09 |
| 1/1 | 1/1 | 5.56 | 4.39 |
| 1/1 | 1/1 | 2.88 | 3.91 |
| 1/1 | 1/1 | 6.05 | 4.68 |
| 0/1 | 1/1 | 2.84 | 3.81 |
| 1/1 | 0/1 | 4.92 | 2.37 |
| 1/1 | 1/1 | 10.41 | 7.98 |
| 1/1 | 1/1 | 6.78 | 6.41 |
| 1/1 | 1/1 | 8.15 | 7.82 |
| 0/1 | 1/1 | 5.72 | 5.43 |
| 1/1 | 1/1 | 3.05 | 2.78 |
| 1/1 | 1/1 | 5.29 | 5.09 |
| 1/1 | 1/1 | 6.26 | 6.06 |
| 0/1 | 1/1 | 4.66 | 4.48 |
| 0/1 | 1/1 | 3.22 | 3.44 |
| 1/1 | 0/1 | 4.96 | 3.85 |
| 1/1 | 1/1 | 3.65 | 2.63 |
| 1/1 | 1/1 | 6.22 | 5.53 |
| 0/1 | 1/1 | 2.7 | 4.74 |
| 1/1 | 1/1 | 5.35 | 4.46 |
| 1/1 | 0/1 | 3.56 | 2.71 |
| 1/1 | 1/1 | 5.61 | 6.97 |
| 0/1 | 1/1 | 2.72 | 4.69 |
| 0/1 | 1/1 | 3.83 | 3.55 |
| 0/1 | 1/1 | 4.36 | 4.13 |
| 1/1 | 1/1 | 6.51 | 6.3 |
| 0/1 | 1/1 | 3.4 | 3.24 |
| 1/1 | 1/1 | 5.45 | 5.33 |
| 0/1 | 1/1 | 4.61 | 6.8 |
| 1/1 | 0/1 | 4.79 | 3.73 |
| 1/1 | 1/1 | 8.42 | 7.4 |
| 1/1 | 1/1 | 4.25 | 5.78 |
| 1/1 | 1/1 | 10 | 9.47 |
| 0/1 | 1/1 | 4.85 | 6.75 |
| 1/1 | 0/1 | 6.65 | 4.15 |
| 1/1 | 1/1 | 7.4 | 5.02 |
| 1/1 | 1/1 | 8.92 | 8.65 |
| 1/1 | 1/1 | 7.82 | 7.6 |
| 1/1 | 1/1 | 8.97 | 8.8 |
| 1/1 | 1/1 | 7.46 | 7.6 |
| 1/1 | 1/1 | 4.09 | 4.85 |
| 1/1 | 1/1 | 5.55 | 6.8 |
| 1/1 | 1/1 | 4.45 | 3.56 |
| 1/1 | 1/1 | 5.37 | 6.91 |
| 1/1 | 1/1 | 6.74 | 6.24 |
| 1/1 | 1/1 | 8.72 | 8.38 |
| 1/1 | 1/1 | 7.69 | 7.19 |
| 1/1 | 1/1 | 9.88 | 9.43 |
| 1/1 | 1/1 | 8.29 | 6.16 |
| 1/1 | 1/1 | 10.16 | 8.04 |
| 1/1 | 1/1 | 9.98 | 7.89 |
| 1/1 | 1/1 | 6.84 | 6.91 |
| 1/1 | 1/1 | 9.1 | 9.2 |
| 1/1 | 1/1 | 9.23 | 8.15 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 6.67 | 5.64 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 1/1 | 4.5 | 3.74 |
| 1/1 | 1/1 | 6.02 | 5.4 |
| 1/1 | 1/1 | 6.74 | 5.57 |
| 1/1 | 1/1 | 3.83 | 4.87 |
| 0/1 | 1/1 | 5.34 | 6.7 |
| 1/1 | 0/1 | 4.33 | 2.7 |
| 1/1 | 1/1 | 8.85 | 9.43 |
| 1/1 | 1/1 | 6.97 | 7.56 |
| 1/1 | 1/1 | 6.11 | 6.71 |
| 1/1 | 1/1 | 3 | 3.92 |
| 0/1 | 1/1 | 3.02 | 4.14 |
| 1/1 | 1/1 | 9.59 | 5.97 |
| 1/1 | 1/1 | 10.23 | 6.65 |
| 1/1 | 1/1 | 9.09 | 5.56 |
| 1/1 | 0/1 | 3.97 | 3.31 |
| 1/1 | 0/1 | 3.17 | 2.57 |
| 1/1 | 1/1 | 6.18 | 6.13 |
| 0/1 | 1/1 | 3.69 | 4.13 |
| 1/1 | 1/1 | 6.39 | 5.32 |
| 1/1 | 1/1 | 4.21 | 5.31 |
| 0/1 | 1/1 | 3.3 | 4.53 |
| 1/1 | 1/1 | 7.34 | 4.98 |
| 1/1 | 1/1 | 8.99 | 8.82 |
| 1/1 | 1/1 | 5.47 | 5.33 |
| 1/1 | 1/1 | 5.57 | 5.45 |
| 1/1 | 1/1 | 7.26 | 7.28 |
| 1/1 | 1/1 | 4.57 | 4.63 |
| 0/1 | 1/1 | 2.2 | 3.06 |
| 1/1 | 1/1 | 4.7 | 3.66 |
| 1/1 | 1/1 | 4.96 | 6.09 |
| 1/1 | 1/1 | 4.05 | 6.25 |
| 1/1 | 1/1 | 6.83 | 5.46 |
| 1/1 | 1/1 | 7.93 | 8.72 |
| 0/1 | 1/1 | 3.05 | 3.96 |
| 1/1 | 1/1 | 4.56 | 5.57 |
| 1/1 | 1/1 | 10.53 | 6.79 |
| 1/1 | 1/1 | 9 | 7.87 |
| 1/1 | 1/1 | 9.89 | 8.88 |
| 0/1 | 1/1 | 6.14 | 5.73 |
| 1/1 | 1/1 | 8.26 | 7.17 |
| 1/1 | 1/1 | 10.07 | 8.98 |
| 0/1 | 1/1 | 3.46 | 4.6 |
| 1/1 | 1/1 | 6.54 | 5.56 |
| 1/1 | 1/1 | 6.45 | 5.52 |
| 0/1 | 1/1 | 3.39 | 4.59 |
| 1/1 | 1/1 | 5.66 | 5.01 |
| 0/1 | 1/1 | 3.29 | 5.73 |
| 1/1 | 1/1 | 7.28 | 6.05 |
| 1/1 | 1/1 | 6.97 | 5.88 |
| 1/1 | 1/1 | 5.29 | 6.29 |
| 1/1 | 1/1 | 7.8 | 7.17 |
| 1/1 | 1/1 | 7.69 | 7.09 |
| 1/1 | 1/1 | 5.88 | 4.87 |
| 1/1 | 0/1 | 6.3 | 5.46 |
| 1/1 | 1/1 | 3.52 | 4.8 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 3.72 | 2.05 |
| 1/1 | 1/1 | 5.7 | 6.22 |
| 0/1 | 1/1 | 7 | 7.56 |
| 1/1 | 1/1 | 8.24 | 7.68 |
| 1/1 | 0/1 | 2.98 | 2.5 |
| 1/1 | 1/1 | 7.8 | 6.68 |
| 1/1 | 1/1 | 5.04 | 4.07 |
| 0/1 | 1/1 | 2.53 | 4.09 |
| 1/1 | 1/1 | 8.26 | 7.25 |
| 1/1 | 1/1 | 8 | 7.11 |
| 1/1 | 0/1 | 5.27 | 3.85 |
| 0/1 | 1/1 | 4.25 | 4.99 |
| 1/1 | 1/1 | 7.9 | 6.71 |
| 0/1 | 1/1 | 2.59 | 4.29 |
| 1/1 | 1/1 | 3.47 | 2.43 |
| 1/1 | 1/1 | 4.69 | 6.05 |
| 1/1 | 1/1 | 5.91 | 4.64 |
| 0/1 | 1/1 | 3.34 | 4.41 |
| 1/1 | 1/1 | 3.98 | 3.53 |
| 1/1 | 1/1 | 5.44 | 5.07 |
| 0/1 | 1/1 | 2.15 | 3.89 |
| 0/1 | 1/1 | 4.08 | 6.12 |
| 0/1 | 1/1 | 4.48 | 6.59 |
| 1/1 | 1/1 | 7.6 | 5.68 |
| 0/1 | 1/1 | 1.89 | 2.32 |
| 1/1 | 1/1 | 3.64 | 3.04 |
| 1/1 | 1/1 | 8.12 | 7.62 |
| 1/1 | 1/1 | 7.89 | 7.43 |
| 1/1 | 1/1 | 5.09 | 6.8 |
| 1/1 | 1/1 | 4.53 | 6.36 |
| 1/1 | 1/1 | 5.46 | 4.09 |
| 1/1 | 1/1 | 8.46 | 7.19 |
| 1/1 | 1/1 | 5.89 | 6.72 |
| 0/1 | 1/1 | 4.56 | 5.42 |
| 0/1 | 1/1 | 4.24 | 5.87 |
| 1/1 | 0/1 | 8.9 | 8.19 |
| 1/1 | 1/1 | 8.98 | 8.37 |
| 1/1 | 1/1 | 6.24 | 5.64 |
| 1/1 | 1/1 | 5.08 | 6.62 |
| 1/1 | 1/1 | 6.54 | 5.11 |
| 1/1 | 1/1 | 3.64 | 4.72 |
| 0/1 | 1/1 | 3.56 | 4.74 |
| 0/1 | 1/1 | 3.56 | 4.74 |
| 1/1 | 1/1 | 7.25 | 4.28 |
| 1/1 | 0/1 | 2.73 | 1.93 |
| 1/1 | 1/1 | 4.75 | 4.23 |
| 1/1 | 1/1 | 6.6 | 6.25 |
| 1/1 | 1/1 | 7.81 | 7.57 |
| 1/1 | 1/1 | 3.77 | 3.56 |
| 1/1 | 1/1 | 5.95 | 5.37 |
| 1/1 | 1/1 | 5.46 | 7.68 |
| 1/1 | 0/1 | 4.98 | 3.57 |
| 1/1 | 0/1 | 4.66 | 3.29 |
| 1/1 | 1/1 | 5.19 | 3.91 |
| 1/1 | 1/1 | 2.56 | 3.46 |
| 1/1 | 1/1 | 4.61 | 5.66 |
| 1/1 | 1/1 | 4.32 | 5.86 |
| 1/1 | 1/1 | 10.29 | 9.51 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.32 | 3.69 |
| 1/1 | 0/1 | 4.86 | 2.87 |
| 1/1 | 1/1 | 3.94 | 4.16 |
| 0/1 | 1/1 | 2.55 | 3.37 |
| 0/1 | 1/1 | 3.17 | 4 |
| 1/1 | 1/1 | 6.62 | 6.09 |
| 1/1 | 1/1 | 7.82 | 7.3 |
| 1/1 | 1/1 | 5.84 | 5.37 |
| 1/1 | 1/1 | 5.04 | 6.68 |
| 0/1 | 1/1 | 3.28 | 5.45 |
| 1/1 | 1/1 | 4.6 | 7.28 |
| 1/1 | 1/1 | 8.05 | 7.79 |
| 1/1 | 1/1 | 6.63 | 6.42 |
| 1/1 | 1/1 | 8.62 | 7.29 |
| 0/1 | 1/1 | 5.36 | 6.4 |
| 1/1 | 1/1 | 4.53 | 3.86 |
| 1/1 | 1/1 | 8.23 | 7.69 |
| 1/1 | 1/1 | 9.85 | 9.06 |
| 1/1 | 1/1 | 6.23 | 5.6 |
| 0/1 | 1/1 | 4.46 | 6.36 |
| 1/1 | 1/1 | 8.7 | 6.9 |
| 1/1 | 1/1 | 9.64 | 7.9 |
| 1/1 | 1/1 | 10.57 | 8.87 |
| 1/1 | 1/1 | 6.12 | 3.21 |
| 1/1 | 1/1 | 5.09 | 4.35 |
| 1/1 | 1/1 | 3.87 | 3.17 |
| 1/1 | 0/1 | 2.96 | 2.36 |
| 1/1 | 1/1 | 6.86 | 6.33 |
| 1/1 | 1/1 | 8.12 | 7.67 |
| 1/1 | 1/1 | 6.61 | 6.27 |
| 1/1 | 1/1 | 9.56 | 9.23 |
| 0/1 | 1/1 | 3.57 | 3.34 |
| 1/1 | 1/1 | 3.55 | 3.47 |
| 1/1 | 1/1 | 5.65 | 5.61 |
| 1/1 | 1/1 | 2.14 | 2.12 |
| 1/1 | 1/1 | 4.93 | 5.02 |
| 1/1 | 1/1 | 5.86 | 6.02 |
| 0/1 | 1/1 | 3.31 | 3.52 |
| 0/1 | 1/1 | 5.32 | 5.53 |
| 1/1 | 1/1 | 6.1 | 6.38 |
| 1/1 | 1/1 | 9.62 | 8.76 |
| 1/1 | 1/1 | 7.98 | 7.25 |
| 1/1 | 1/1 | 8.89 | 8.18 |
| 1/1 | 1/1 | 6.31 | 5.92 |
| 0/1 | 1/1 | 3.11 | 2.82 |
| 1/1 | 1/1 | 3.81 | 3.56 |
| 1/1 | 1/1 | 2.98 | 5.24 |
| 1/1 | 0/1 | 5.35 | 2.57 |
| 1/1 | 1/1 | 7.19 | 6.58 |
| 1/1 | 1/1 | 6.29 | 5.69 |
| 1/1 | 1/1 | 5.67 | 5.4 |
| 1/1 | 1/1 | 13.03 | 12.6 |
| 1/1 | 1/1 | 4.58 | 6.7 |
| 1/1 | 1/1 | 9.08 | 7.93 |
| 0/1 | 1/1 | 2.53 | 4.37 |
| 1/1 | 1/1 | 3.68 | 2.9 |
| 1/1 | 1/1 | 6.8 | 8.73 |
| 1/1 | 1/1 | 6.14 | 5.6 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.71 | 6.2 |
| 1/1 | 1/1 | 6.32 | 5.9 |
| 1/1 | 1/1 | 4.71 | 3.81 |
| 0/1 | 1/1 | 2.34 | 3.77 |
| 1/1 | 1/1 | 4.02 | 5.87 |
| 1/1 | 1/1 | 6.07 | 5.3 |
| 0/1 | 1/1 | 3.47 | 4.85 |
| 0/1 | 1/1 | 3.72 | 5.83 |
| 0/1 | 1/1 | 5.08 | 7.67 |
| 1/1 | 1/1 | 6.03 | 5.52 |
| 1/1 | 1/1 | 6.77 | 6.39 |
| 1/1 | 1/1 | 4.76 | 6.56 |
| 1/1 | 1/1 | 5 | 6.92 |
| 1/1 | 1/1 | 6.7 | 5.65 |
| 1/1 | 1/1 | 5.82 | 6.97 |
| 1/1 | 1/1 | 9.62 | 8.24 |
| 1/1 | 1/1 | 11.08 | 9.83 |
| 1/1 | 1/1 | 6.12 | 6.95 |
| 1/1 | 1/1 | 7.06 | 8.07 |
| 1/1 | 0/1 | 5.61 | 3.67 |
| 1/1 | 1/1 | 4.61 | 4.89 |
| 1/1 | 1/1 | 6.27 | 4.93 |
| 0/1 | 1/1 | 4.13 | 5.02 |
| 1/1 | 0/1 | 2.89 | 2.35 |
| 1/1 | 0/1 | 2.54 | 2.04 |
| 1/1 | 1/1 | 7.46 | 6.97 |
| 1/1 | 1/1 | 6.88 | 8.74 |
| 1/1 | 0/1 | 7.48 | 6.84 |
| 1/1 | 1/1 | 5.49 | 7.15 |
| 1/1 | 1/1 | 8.74 | 8.04 |
| 1/1 | 1/1 | 7.12 | 6.57 |
| 1/1 | 1/1 | 3.75 | 5.55 |
| 1/1 | 1/1 | 10.25 | 9.21 |
| 1/1 | 1/1 | 8.11 | 7.17 |
| 1/1 | 1/1 | 8.05 | 7.13 |
| 1/1 | 1/1 | 7.2 | 8.3 |
| 1/1 | 0/1 | 2.75 | 1.86 |
| 1/1 | 1/1 | 6.16 | 7.51 |
| 1/1 | 1/1 | 6.99 | 6.09 |
| 1/1 | 1/1 | 3.31 | 2.48 |
| 1/1 | 1/1 | 6.65 | 6.5 |
| 1/1 | 1/1 | 10.79 | 10.69 |
| 1/1 | 1/1 | 5.5 | 5.43 |
| 1/1 | 1/1 | 5.21 | 7.37 |
| 1/1 | 1/1 | 8.27 | 7.76 |
| 1/1 | 1/1 | 8.43 | 7.93 |
| 1/1 | 1/1 | 8.35 | 7.74 |
| 1/1 | 1/1 | 3.51 | 3.02 |
| 1/1 | 1/1 | 3.42 | 5.08 |
| 1/1 | 1/1 | 7.96 | 7.74 |
| 1/1 | 1/1 | 6.63 | 6.54 |
| 0/1 | 1/1 | 6.58 | 8.67 |
| 1/1 | 1/1 | 7.05 | 9.16 |
| 1/1 | 1/1 | 5.33 | 7.46 |
| 1/1 | 1/1 | 4.68 | 6.9 |
| 1/1 | 1/1 | 8.04 | 10.34 |
| 0/1 | 1/1 | 2.68 | 5.06 |
| 1/1 | 1/1 | 3.7 | 9.21 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.01 | 2.89 |
| 1/1 | 1/1 | 7.3 | 6.2 |
| 1/1 | 0/1 | 5.48 | 4.4 |
| 1/1 | 1/1 | 6.66 | 5.66 |
| 1/1 | 1/1 | 3.69 | 4.82 |
| 0/1 | 1/1 | 3.02 | 5.19 |
| 1/1 | 0/1 | 3.9 | 2.33 |
| 1/1 | 1/1 | 4.75 | 5.56 |
| 0/1 | 1/1 | 3.93 | 4.76 |
| 1/1 | 1/1 | 7.16 | 6.38 |
| 1/1 | 1/1 | 4.04 | 3.36 |
| 1/1 | 1/1 | 3.57 | 2.91 |
| 1/1 | 1/1 | 5.93 | 3.5 |
| 1/1 | 1/1 | 2.71 | 2.6 |
| 1/1 | 1/1 | 12.06 | 12.22 |
| 1/1 | 1/1 | 12.95 | 13.13 |
| 1/1 | 1/1 | 5.78 | 6.06 |
| 1/1 | 1/1 | 10.23 | 10.87 |
| 1/1 | 1/1 | 7.71 | 3.58 |
| 1/1 | 0/1 | 4.69 | 3.5 |
| 1/1 | 1/1 | 8.23 | 7.23 |
| 1/1 | 1/1 | 8.08 | 7.14 |
| 1/1 | 1/1 | 5.13 | 4.31 |
| 1/1 | 1/1 | 8.19 | 7.7 |
| 0/1 | 1/1 | 3.28 | 3.39 |
| 1/1 | 0/1 | 5.53 | 2.37 |
| 1/1 | 0/1 | 3.68 | 2.77 |
| 1/1 | 1/1 | 3.83 | 3.08 |
| 1/1 | 1/1 | 4.6 | 3.89 |
| 1/1 | 1/1 | 4.82 | 4.17 |
| 1/1 | 1/1 | 3.79 | 3.47 |
| 1/1 | 1/1 | 7.82 | 7.52 |
| 1/1 | 1/1 | 4.02 | 3.94 |
| 1/1 | 1/1 | 3.01 | 3.01 |
| 1/1 | 1/1 | 7.99 | 8.22 |
| 0/1 | 1/1 | 3.46 | 4.07 |
| 0/1 | 1/1 | 6.55 | 6.31 |
| 1/1 | 1/1 | 8.28 | 8.09 |
| 1/1 | 1/1 | 5.51 | 5.37 |
| 1/1 | 1/1 | 10.7 | 10.55 |
| 1/1 | 1/1 | 5.56 | 7.54 |
| 0/1 | 1/1 | 5.44 | 4.8 |
| 0/1 | 1/1 | 2.62 | 4.17 |
| 1/1 | 1/1 | 9.67 | 9.05 |
| 1/1 | 1/1 | 3.83 | 5.4 |
| 0/1 | 1/1 | 4.35 | 6.1 |
| 1/1 | 1/1 | 6.17 | 7.93 |
| 1/1 | 1/1 | 5.87 | 7.66 |
| 1/1 | 1/1 | 4.87 | 6.73 |
| 0/1 | 1/1 | 3.09 | 5.7 |
| 1/1 | 1/1 | 4.07 | 7.1 |
| 1/1 | 0/1 | 4.97 | 3.93 |
| 0/1 | 1/1 | 4.81 | 6.49 |
| 1/1 | 1/1 | 4.87 | 7.31 |
| 0/1 | 1/1 | 3.57 | 6.86 |
| 1/1 | 1/1 | 4.17 | 3.27 |
| 1/1 | 1/1 | 5.95 | 7.21 |
| 1/1 | 1/1 | 4.26 | 3.76 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.49 | 4.09 |
| 1/1 | 1/1 | 5.67 | 7.33 |
| 1/1 | 1/1 | 4.25 | 6.16 |
| 1/1 | 0/1 | 5.59 | 3.83 |
| 1/1 | 1/1 | 5.16 | 5.56 |
| 1/1 | 1/1 | 5.6 | 6.01 |
| 0/1 | 1/1 | 3.78 | 4.2 |
| 0/1 | 1/1 | 2.58 | 3.05 |
| 1/1 | 1/1 | 4.43 | 4.91 |
| 0/1 | 1/1 | 3.51 | 4.07 |
| 1/1 | 1/1 | 4.82 | 5.4 |
| 0/1 | 1/1 | 2.43 | 3.06 |
| 0/1 | 1/1 | 2.35 | 3.14 |
| 1/1 | 1/1 | 6.79 | 8.37 |
| 1/1 | 1/1 | 6.16 | 5.35 |
| 1/1 | 0/1 | 6.96 | 6.19 |
| 1/1 | 1/1 | 4.25 | 5.98 |
| 1/1 | 1/1 | 6.67 | 5.62 |
| 0/1 | 1/1 | 3.53 | 5.69 |
| 1/1 | 1/1 | 5.41 | 4.22 |
| 0/1 | 1/1 | 3.11 | 4.08 |
| 1/1 | 1/1 | 3.22 | 4.34 |
| 1/1 | 1/1 | 8.17 | 7.33 |
| 1/1 | 1/1 | 7.42 | 6.62 |
| 1/1 | 1/1 | 4.42 | 4.03 |
| 1/1 | 1/1 | 6.06 | 5.76 |
| 1/1 | 1/1 | 7.4 | 7.1 |
| 0/1 | 1/1 | 3.66 | 3.4 |
| 1/1 | 1/1 | 10.76 | 10.08 |
| 1/1 | 1/1 | 5.4 | 7.38 |
| 1/1 | 0/1 | 3.06 | 2.24 |
| 1/1 | 1/1 | 4.24 | 3.56 |
| 1/1 | 1/1 | 4.61 | 3.93 |
| 0/1 | 1/1 | 2.55 | 4.28 |
| 1/1 | 1/1 | 4.97 | 4.2 |
| 0/1 | 1/1 | 3.06 | 4.59 |
| 1/1 | 1/1 | 7.16 | 6.23 |
| 1/1 | 1/1 | 8.74 | 7.87 |
| 1/1 | 1/1 | 8.02 | 7.2 |
| 1/1 | 1/1 | 4.16 | 5.41 |
| 1/1 | 1/1 | 7.08 | 5.93 |
| 1/1 | 1/1 | 8.46 | 7.38 |
| 1/1 | 1/1 | 7.33 | 6.61 |
| 1/1 | 1/1 | 5.92 | 5.29 |
| 1/1 | 1/1 | 4.52 | 5.95 |
| 1/1 | 1/1 | 4.28 | 6.05 |
| 1/1 | 0/1 | 5.36 | 2.97 |
| 0/1 | 1/1 | 6.96 | 6.73 |
| 1/1 | 1/1 | 6.96 | 6.82 |
| 1/1 | 1/1 | 5.26 | 5.18 |
| 1/1 | 1/1 | 4.7 | 4.82 |
| 1/1 | 1/1 | 5.47 | 5.7 |
| 0/1 | 1/1 | 8.04 | 8.44 |
| 0/1 | 1/1 | 9.09 | 9.57 |
| 1/1 | 1/1 | 5.05 | 5.59 |
| 1/1 | 1/1 | 3.29 | 4.14 |
| 0/1 | 1/1 | 2.34 | 3.39 |
| 1/1 | 1/1 | 9.56 | 9.11 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 2.53 | 2.21 |
| 1/1 | 1/1 | 3.8 | 5.73 |
| 1/1 | 1/1 | 6.45 | 6.13 |
| 1/1 | 1/1 | 13.04 | 12.79 |
| 1/1 | 1/1 | 3.52 | 3.29 |
| 0/1 | 1/1 | 2.47 | 4.46 |
| 1/1 | 1/1 | 6.64 | 5.16 |
| 1/1 | 1/1 | 3.69 | 4.37 |
| 1/1 | 1/1 | 6.05 | 5.29 |
| 0/1 | 1/1 | 3.04 | 4.88 |
| 1/1 | 1/1 | 8.92 | 5.65 |
| 1/1 | 1/1 | 9.46 | 8.58 |
| 1/1 | 1/1 | 7.72 | 6.87 |
| 1/1 | 1/1 | 9.33 | 8.76 |
| 1/1 | 1/1 | 7.15 | 6.03 |
| 0/1 | 1/1 | 3.97 | 5.05 |
| 1/1 | 1/1 | 7.48 | 7.01 |
| 1/1 | 1/1 | 7.16 | 6.79 |
| 1/1 | 1/1 | 10.1 | 9.74 |
| 1/1 | 1/1 | 6.67 | 6.33 |
| 1/1 | 1/1 | 7.23 | 6.21 |
| 1/1 | 1/1 | 4.62 | 5.78 |
| 0/1 | 1/1 | 3.41 | 5.78 |
| 1/1 | 1/1 | 10.77 | 9.79 |
| 1/1 | 1/1 | 7.35 | 8.67 |
| 0/1 | 1/1 | 3.4 | 5.08 |
| 1/1 | 1/1 | 7.26 | 6.54 |
| 1/1 | 1/1 | 4.6 | 6.11 |
| 1/1 | 1/1 | 5 | 6.6 |
| 1/1 | 1/1 | 6.89 | 6.1 |
| 1/1 | 1/1 | 5.25 | 4.59 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 6.89 | 6.1 |
| 1/1 | 1/1 | 5.25 | 4.59 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 6.89 | 6.1 |
| 1/1 | 1/1 | 5.25 | 4.59 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 6.89 | 6.1 |
| 1/1 | 1/1 | 5.25 | 4.59 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 6.89 | 6.1 |
| 1/1 | 1/1 | 5.25 | 4.59 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 6.4 | 6.32 |
| 1/1 | 1/1 | 6.99 | 7.04 |
| 1/1 | 1/1 | 10.08 | 8.96 |
| 1/1 | 1/1 | 10.46 | 9.38 |
| 1/1 | 1/1 | 11.32 | 10.26 |
| 1/1 | 1/1 | 3.35 | 4.47 |
| 0/1 | 1/1 | 4.2 | 5.73 |
| 0/1 | 1/1 | 6.33 | 5.81 |
| 1/1 | 1/1 | 6.98 | 6.55 |
| 1/1 | 1/1 | 4.25 | 5.87 |
| 1/1 | 1/1 | 7.5 | 4.71 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.73 | 4.22 |
| 1/1 | 1/1 | 3.2 | 2.86 |
| 1/1 | 1/1 | 6.33 | 6.69 |
| 1/1 | 1/1 | 12.34 | 12.19 |
| 1/1 | 1/1 | 3.55 | 3.46 |
| 1/1 | 1/1 | 7.2 | 6.17 |
| 1/1 | 1/1 | 6.54 | 7.74 |
| 1/1 | 1/1 | 2.85 | 4.37 |
| 1/1 | 1/1 | 3.53 | 5.86 |
| 0/1 | 1/1 | 2.64 | 5.64 |
| 1/1 | 0/1 | 3.04 | 2.29 |
| 1/1 | 0/1 | 3.17 | 2.49 |
| 1/1 | 1/1 | 8.07 | 7.05 |
| 1/1 | 1/1 | 6.39 | 5.43 |
| 1/1 | 1/1 | 3.83 | 4.95 |
| 1/1 | 1/1 | 9.18 | 6.25 |
| 1/1 | 1/1 | 9.73 | 6.82 |
| 1/1 | 1/1 | 9.21 | 8.59 |
| 1/1 | 1/1 | 9.18 | 8.62 |
| 1/1 | 1/1 | 5.57 | 5.02 |
| 1/1 | 1/1 | 4.96 | 4.47 |
| 1/1 | 1/1 | 8.14 | 7.7 |
| 1/1 | 1/1 | 7.3 | 6.87 |
| 0/1 | 1/1 | 5.21 | 4.81 |
| 1/1 | 1/1 | 7.33 | 6.93 |
| 0/1 | 1/1 | 6.35 | 5.97 |
| 1/1 | 1/1 | 7.82 | 7.49 |
| 1/1 | 1/1 | 8.1 | 7.85 |
| 1/1 | 1/1 | 7.78 | 7.56 |
| 1/1 | 1/1 | 6.25 | 6.04 |
| 1/1 | 1/1 | 10.17 | 9.97 |
| 1/1 | 1/1 | 6.39 | 6.24 |
| 1/1 | 1/1 | 8.27 | 8.15 |
| 1/1 | 1/1 | 7.74 | 7.62 |
| 0/1 | 1/1 | 7.64 | 7.55 |
| 1/1 | 1/1 | 6.95 | 6.9 |
| 0/1 | 1/1 | 7.46 | 7.47 |
| 1/1 | 1/1 | 5.39 | 5.43 |
| 1/1 | 1/1 | 6.81 | 6.86 |
| 1/1 | 1/1 | 6.12 | 6.19 |
| 1/1 | 1/1 | 7.66 | 7.87 |
| 0/1 | 1/1 | 5.35 | 5.9 |
| 1/1 | 1/1 | 4.43 | 3.48 |
| 1/1 | 1/1 | 4.3 | 3.45 |
| 1/1 | 1/1 | 3.13 | 4.67 |
| 1/1 | 1/1 | 3.56 | 5.37 |
| 1/1 | 1/1 | 5.53 | 4.44 |
| 1/1 | 1/1 | 3.9 | 4.99 |
| 1/1 | 1/1 | 3.62 | 5 |
| 0/1 | 1/1 | 2.76 | 4.33 |
| 1/1 | 1/1 | 3.96 | 3.3 |
| 1/1 | 1/1 | 6.78 | 8.5 |
| 1/1 | 1/1 | 4.84 | 4.1 |
| 1/1 | 1/1 | 6.61 | 5.96 |
| 1/1 | 1/1 | 3.38 | 2.82 |
| 1/1 | 1/1 | 4.74 | 4.21 |
| 1/1 | 1/1 | 3.24 | 2.79 |
| 1/1 | 1/1 | 9.8 | 8.55 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.31 | 5.14 |
| 0/1 | 1/1 | 2.36 | 3.27 |
| 1/1 | 1/1 | 5.26 | 6.38 |
| 1/1 | 0/1 | 3.75 | 2.57 |
| 1/1 | 0/1 | 4.24 | 3.12 |
| 1/1 | 1/1 | 4.39 | 5.38 |
| 1/1 | 1/1 | 4.61 | 5.73 |
| 1/1 | 1/1 | 3.94 | 5.07 |
| 1/1 | 1/1 | 2.28 | 3.78 |
| 1/1 | 1/1 | 4.58 | 3.66 |
| 1/1 | 1/1 | 7.46 | 9.01 |
| 1/1 | 1/1 | 7.39 | 6.9 |
| 1/1 | 1/1 | 8.87 | 8.4 |
| 1/1 | 1/1 | 6.67 | 6.26 |
| 1/1 | 0/1 | 6.08 | 5.37 |
| 1/1 | 1/1 | 3.25 | 5.09 |
| 1/1 | 0/1 | 4.19 | 3.08 |
| 1/1 | 0/1 | 5.66 | 4.68 |
| 1/1 | 1/1 | 5.02 | 4.12 |
| 1/1 | 1/1 | 6.02 | 5.21 |
| 1/1 | 1/1 | 5.63 | 4.86 |
| 1/1 | 1/1 | 9.01 | 10.37 |
| 1/1 | 1/1 | 6.86 | 6.16 |
| 1/1 | 1/1 | 6.41 | 5.83 |
| 1/1 | 1/1 | 4.9 | 6.35 |
| 1/1 | 1/1 | 6.72 | 6.46 |
| 0/1 | 1/1 | 4.25 | 6.97 |
| 1/1 | 1/1 | 9.51 | 8.29 |
| 1/1 | 1/1 | 7.15 | 8.1 |
| 1/1 | 1/1 | 5.08 | 3.35 |
| 1/1 | 1/1 | 7.81 | 8.22 |
| 0/1 | 1/1 | 3.33 | 4.19 |
| 0/1 | 1/1 | 2.93 | 3.98 |
| 1/1 | 1/1 | 7.34 | 6.82 |
| 1/1 | 1/1 | 5.74 | 7.44 |
| 1/1 | 1/1 | 4.3 | 6.04 |
| 1/1 | 1/1 | 5.92 | 7.78 |
| 1/1 | 1/1 | 5.12 | 6.99 |
| 0/1 | 1/1 | 3.19 | 5.22 |
| 1/1 | 1/1 | 8.02 | 7.18 |
| 1/1 | 1/1 | 3.93 | 5.51 |
| 1/1 | 1/1 | 3.62 | 5.29 |
| 1/1 | 1/1 | 9.31 | 8.97 |
| 1/1 | 1/1 | 5.2 | 7.39 |
| 1/1 | 1/1 | 3.96 | 3.3 |
| 1/1 | 1/1 | 6.78 | 8.5 |
| 1/1 | 1/1 | 5.93 | 4.55 |
| 1/1 | 1/1 | 6.73 | 5.45 |
| 1/1 | 1/1 | 4.68 | 5.78 |
| 1/1 | 1/1 | 10.42 | 9.21 |
| 0/1 | 1/1 | 5.01 | 6 |
| 0/1 | 1/1 | 2.73 | 3.92 |
| 0/1 | 1/1 | 3.22 | 4.49 |
| 1/1 | 1/1 | 5.08 | 3.92 |
| 1/1 | 1/1 | 6.09 | 5.02 |
| 0/1 | 1/1 | 3.14 | 4.19 |
| 1/1 | 1/1 | 3.58 | 2.96 |
| 1/1 | 1/1 | 6.54 | 5.92 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.16 | 4.65 |
| 1/1 | 1/1 | 3.65 | 2.81 |
| 0/1 | 1/1 | 4.07 | 5.48 |
| 1/1 | 1/1 | 5.8 | 7.29 |
| 0/1 | 1/1 | 3.68 | 5.56 |
| 1/1 | 1/1 | 4.88 | 3.2 |
| 0/1 | 1/1 | 3.39 | 3.89 |
| 0/1 | 1/1 | 6.12 | 6.62 |
| 0/1 | 1/1 | 2.78 | 3.49 |
| 1/1 | 1/1 | 9.36 | 9.05 |
| 0/1 | 1/1 | 2.74 | 5.1 |
| 1/1 | 1/1 | 5.41 | 4.29 |
| 1/1 | 1/1 | 4.13 | 3.1 |
| 1/1 | 1/1 | 9.94 | 10.97 |
| 1/1 | 1/1 | 8.6 | 9.65 |
| 1/1 | 1/1 | 6.77 | 7.84 |
| 1/1 | 1/1 | 8.6 | 9.66 |
| 1/1 | 1/1 | 6.01 | 7.08 |
| 1/1 | 1/1 | 8.73 | 9.82 |
| 1/1 | 1/1 | 8.4 | 9.5 |
| 1/1 | 1/1 | 7.68 | 8.79 |
| 1/1 | 1/1 | 8.18 | 9.43 |
| 1/1 | 1/1 | 6.82 | 8.24 |
| 1/1 | 1/1 | 7.26 | 8.77 |
| 1/1 | 1/1 | 5.76 | 7.65 |
| 1/1 | 0/1 | 8.19 | 2.78 |
| 1/1 | 0/1 | 5.18 | 1.92 |
| 1/1 | 0/1 | 6.89 | 4.13 |
| 1/1 | 1/1 | 9.11 | 6.46 |
| 1/1 | 0/1 | 7.83 | 5.39 |
| 1/1 | 1/1 | 9.74 | 7.53 |
| 1/1 | 1/1 | 8.66 | 6.85 |
| 1/1 | 1/1 | 10.56 | 9.54 |
| 1/1 | 1/1 | 6.01 | 5.03 |
| 1/1 | 1/1 | 4.97 | 4.29 |
| 1/1 | 1/1 | 8.06 | 7.39 |
| 1/1 | 1/1 | 4.82 | 4.39 |
| 1/1 | 1/1 | 6.8 | 6.39 |
| 1/1 | 1/1 | 5.22 | 4.88 |
| 1/1 | 1/1 | 4.3 | 4 |
| 1/1 | 1/1 | 3.32 | 3.04 |
| 0/1 | 1/1 | 2.27 | 2.65 |
| 1/1 | 1/1 | 5.01 | 3.82 |
| 1/1 | 1/1 | 4.41 | 5.68 |
| 1/1 | 1/1 | 7.24 | 6.45 |
| 1/1 | 1/1 | 8.43 | 7.76 |
| 1/1 | 1/1 | 8.38 | 7.34 |
| 1/1 | 1/1 | 7.07 | 6.09 |
| 1/1 | 1/1 | 6.29 | 5.36 |
| 0/1 | 1/1 | 4.44 | 5.64 |
| 1/1 | 1/1 | 4.41 | 5.63 |
| 1/1 | 1/1 | 6.54 | 6.13 |
| 1/1 | 1/1 | 8.48 | 8.1 |
| 1/1 | 1/1 | 6.68 | 8.39 |
| 0/1 | 1/1 | 2.3 | 4.1 |
| 1/1 | 1/1 | 4.07 | 6.22 |
| 0/1 | 1/1 | 4.48 | 6.89 |
| 1/1 | 0/1 | 5.66 | 4.62 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.9 | 6.14 |
| 0/1 | 1/1 | 4.15 | 5.63 |
| 1/1 | 1/1 | 12.16 | 11.63 |
| 0/1 | 1/1 | 1.7 | 3.42 |
| 1/1 | 1/1 | 4.24 | 6.49 |
| 1/1 | 1/1 | 4.49 | 3.81 |
| 1/1 | 1/1 | 7.5 | 6.89 |
| 1/1 | 1/1 | 5.25 | 6.76 |
| 0/1 | 1/1 | 3.88 | 5.42 |
| 0/1 | 1/1 | 4.2 | 5.76 |
| 0/1 | 1/1 | 3.35 | 4.94 |
| 1/1 | 1/1 | 3.9 | 5.72 |
| 0/1 | 1/1 | 3.85 | 6.12 |
| 1/1 | 1/1 | 9.97 | 8.74 |
| 1/1 | 1/1 | 8.47 | 9.62 |
| 1/1 | 1/1 | 7.07 | 5.71 |
| 1/1 | 1/1 | 4.09 | 5.09 |
| 1/1 | 1/1 | 3.36 | 4.62 |
| 0/1 | 1/1 | 7.28 | 6.56 |
| 1/1 | 1/1 | 4.34 | 3.7 |
| 1/1 | 1/1 | 5.59 | 4.98 |
| 1/1 | 0/1 | 5.99 | 5.05 |
| 1/1 | 1/1 | 6.51 | 5.68 |
| 1/1 | 1/1 | 3.41 | 4.65 |
| 0/1 | 1/1 | 2.06 | 3.31 |
| 0/1 | 1/1 | 3.41 | 4.7 |
| 0/1 | 1/1 | 4.45 | 5.85 |
| 0/1 | 1/1 | 3.26 | 4.83 |
| 0/1 | 1/1 | 4.8 | 6.51 |
| 0/1 | 1/1 | 2.88 | 5.18 |
| 0/1 | 1/1 | 2.09 | 5.32 |
| 1/1 | 1/1 | 9.08 | 9.11 |
| 1/1 | 1/1 | 4.58 | 4.63 |
| 1/1 | 1/1 | 6.43 | 8.67 |
| 1/1 | 1/1 | 12.35 | 5.95 |
| 1/1 | 0/1 | 12.66 | 6.26 |
| 1/1 | 1/1 | 13.56 | 9.29 |
| 1/1 | 1/1 | 13.44 | 9.58 |
| 1/1 | 0/1 | 9.87 | 6.5 |
| 1/1 | 0/1 | 8.1 | 4.81 |
| 1/1 | 1/1 | 12.36 | 9.19 |
| 1/1 | 1/1 | 9.19 | 7.71 |
| 1/1 | 1/1 | 7.2 | 6.17 |
| 1/1 | 1/1 | 7.87 | 6.95 |
| 1/1 | 1/1 | 7.02 | 6.51 |
| 1/1 | 1/1 | 7.08 | 6.58 |
| 1/1 | 1/1 | 7.03 | 6.61 |
| 1/1 | 1/1 | 8.26 | 7.86 |
| 1/1 | 1/1 | 6.25 | 5.62 |
| 1/1 | 1/1 | 8.24 | 7.65 |
| 0/1 | 1/1 | 4.51 | 6.02 |
| 1/1 | 0/1 | 6.11 | 5.26 |
| 1/1 | 1/1 | 4 | 5.35 |
| 1/1 | 1/1 | 6.13 | 5.3 |
| 1/1 | 1/1 | 9.29 | 8.51 |
| 1/1 | 1/1 | 4.79 | 6.11 |
| 0/1 | 1/1 | 3.33 | 5.34 |
| 1/1 | 1/1 | 9.5 | 5.78 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 0/1 | 6.56 | 5.65 |
| 1/1 | 1/1 | 5.46 | 5.31 |
| 1/1 | 1/1 | 7.39 | 7.25 |
| 1/1 | 1/1 | 7.06 | 6.95 |
| 1/1 | 1/1 | 6.13 | 6.08 |
| 0/1 | 1/1 | 6.68 | 6.69 |
| 1/1 | 1/1 | 5.62 | 4.99 |
| 1/1 | 1/1 | 5.94 | 5.33 |
| 1/1 | 1/1 | 3.96 | 5.48 |
| 1/1 | 1/1 | 4.41 | 6.14 |
| 1/1 | 1/1 | 6 | 7.98 |
| 1/1 | 1/1 | 4.41 | 6.54 |
| 1/1 | 1/1 | 3.04 | 5.18 |
| 1/1 | 1/1 | 4.94 | 4.21 |
| 1/1 | 1/1 | 4.85 | 4.15 |
| 1/1 | 1/1 | 5.03 | 4.37 |
| 1/1 | 1/1 | 3.66 | 3.02 |
| 1/1 | 0/1 | 4.45 | 3.82 |
| 1/1 | 0/1 | 2.98 | 2.01 |
| 1/1 | 1/1 | 5.68 | 4.76 |
| 1/1 | 1/1 | 7.09 | 6.17 |
| 1/1 | 1/1 | 3.79 | 5.24 |
| 1/1 | 1/1 | 6.1 | 5.43 |
| 1/1 | 1/1 | 2.47 | 4.33 |
| 1/1 | 0/1 | 7.17 | 6.24 |
| 1/1 | 1/1 | 4.95 | 6.44 |
| 1/1 | 1/1 | 3.97 | 5.48 |
| 1/1 | 1/1 | 5.16 | 6.72 |
| 1/1 | 1/1 | 8.51 | 10.48 |
| 1/1 | 1/1 | 8.53 | 10.69 |
| 1/1 | 1/1 | 8.43 | 10.71 |
| 0/1 | 1/1 | 4.19 | 6.51 |
| 1/1 | 1/1 | 7.07 | 9.54 |
| 1/1 | 1/1 | 7.21 | 9.68 |
| 1/1 | 1/1 | 7.09 | 9.59 |
| 1/1 | 1/1 | 7.07 | 9.74 |
| 1/1 | 1/1 | 6.47 | 9.24 |
| 1/1 | 1/1 | 6.29 | 9.11 |
| 1/1 | 1/1 | 8.09 | 10.93 |
| 1/1 | 1/1 | 6.16 | 9.11 |
| 1/1 | 1/1 | 5.28 | 8.37 |
| 1/1 | 1/1 | 7.13 | 10.36 |
| 1/1 | 1/1 | 5.52 | 5.11 |
| 1/1 | 1/1 | 7.46 | 7.17 |
| 1/1 | 1/1 | 6.42 | 6.13 |
| 0/1 | 1/1 | 2.88 | 5.32 |
| 1/1 | 0/1 | 3.91 | 2.33 |
| 0/1 | 1/1 | 5.35 | 6.2 |
| 1/1 | 1/1 | 8.29 | 7.76 |
| 1/1 | 1/1 | 4.58 | 6.24 |
| 0/1 | 1/1 | 3.74 | 3.23 |
| 1/1 | 1/1 | 2.73 | 2.24 |
| 1/1 | 0/1 | 2.95 | 2.5 |
| 0/1 | 1/1 | 2.83 | 4.56 |
| 1/1 | 0/1 | 4.55 | 3.41 |
| 1/1 | 1/1 | 7.81 | 6.79 |
| 1/1 | 1/1 | 5.58 | 4.3 |
| 1/1 | 1/1 | 3.51 | 4.35 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.43 | 4.31 |
| 1/1 | 1/1 | 6.45 | 5.83 |
| 1/1 | 1/1 | 8.38 | 7.81 |
| 1/1 | 1/1 | 5.08 | 4.55 |
| 1/1 | 1/1 | 6.09 | 5.46 |
| 1/1 | 1/1 | 6.31 | 5.77 |
| 1/1 | 1/1 | 4.72 | 4.2 |
| 1/1 | 0/1 | 4.76 | 2.52 |
| 1/1 | 1/1 | 8.13 | 5.96 |
| 1/1 | 1/1 | 5.64 | 3.47 |
| 1/1 | 1/1 | 8.35 | 6.41 |
| 1/1 | 1/1 | 4.53 | 5.39 |
| 1/1 | 0/1 | 3.77 | 2.46 |
| 0/1 | 1/1 | 2.58 | 3.58 |
| 1/1 | 1/1 | 4.19 | 5.25 |
| 1/1 | 1/1 | 3.82 | 4.96 |
| 1/1 | 1/1 | 3.52 | 5.31 |
| 0/1 | 1/1 | 2.43 | 4.36 |
| 1/1 | 1/1 | 5.37 | 7.33 |
| 1/1 | 1/1 | 3.47 | 2.13 |
| 1/1 | 1/1 | 5.54 | 6.76 |
| 1/1 | 0/1 | 4.73 | 3.03 |
| 1/1 | 0/1 | 5.09 | 3.44 |
| 1/1 | 1/1 | 4.86 | 4.24 |
| 1/1 | 1/1 | 3.29 | 4.92 |
| 1/1 | 0/1 | 3.75 | 2.57 |
| 0/1 | 1/1 | 2.79 | 3.85 |
| 1/1 | 1/1 | 4.61 | 5.73 |
| 1/1 | 1/1 | 3.69 | 4.87 |
| 1/1 | 1/1 | 3.43 | 4.68 |
| 0/1 | 1/1 | 1.98 | 3.91 |
| 1/1 | 0/1 | 6.65 | 3.62 |
| 1/1 | 1/1 | 5.97 | 3.01 |
| 1/1 | 1/1 | 5.34 | 4.54 |
| 1/1 | 0/1 | 2.31 | 1.87 |
| 1/1 | 0/1 | 2.81 | 2.64 |
| 1/1 | 1/1 | 5.85 | 5.75 |
| 1/1 | 1/1 | 6.82 | 5.92 |
| 1/1 | 1/1 | 5.08 | 4.17 |
| 0/1 | 1/1 | 2.45 | 3.7 |
| 1/1 | 1/1 | 5.62 | 4.54 |
| 1/1 | 1/1 | 9.49 | 8.46 |
| 1/1 | 1/1 | 3.65 | 2.63 |
| 0/1 | 1/1 | 2.23 | 3.73 |
| 1/1 | 0/1 | 3.19 | 1.89 |
| 1/1 | 1/1 | 4.85 | 5.69 |
| 0/1 | 1/1 | 4.3 | 5.57 |
| 1/1 | 0/1 | 3.52 | 2.39 |
| 0/1 | 1/1 | 3.54 | 4.87 |
| 1/1 | 1/1 | 7.41 | 4.02 |
| 1/1 | 1/1 | 9.04 | 7.8 |
| 1/1 | 1/1 | 9.78 | 8.56 |
| 1/1 | 0/1 | 6.44 | 5.27 |
| 1/1 | 1/1 | 9.28 | 8.43 |
| 1/1 | 1/1 | 5.11 | 4.73 |
| 1/1 | 1/1 | 7.14 | 6.8 |
| 1/1 | 1/1 | 6.44 | 6.16 |
| 1/1 | 1/1 | 7.21 | 7.06 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 11.37 | 11.28 |
| 1/1 | 1/1 | 9.35 | 9.28 |
| 1/1 | 1/1 | 4.04 | 4.06 |
| 0/1 | 1/1 | 4.9 | 3.91 |
| 0/1 | 1/1 | 3.42 | 4.81 |
| 1/1 | 1/1 | 8.47 | 7.93 |
| 1/1 | 1/1 | 3.27 | 2.79 |
| 1/1 | 1/1 | 4.84 | 4.08 |
| 1/1 | 1/1 | 3.19 | 5.67 |
| 1/1 | 1/1 | 10.32 | 9.94 |
| 0/1 | 1/1 | 2.71 | 4.46 |
| 1/1 | 1/1 | 4.59 | 6.44 |
| 0/1 | 1/1 | 4.16 | 6.17 |
| 1/1 | 1/1 | 6.1 | 4.05 |
| 1/1 | 1/1 | 3.33 | 3.57 |
| 1/1 | 1/1 | 6.84 | 7.21 |
| 1/1 | 1/1 | 6.07 | 4.2 |
| 1/1 | 0/1 | 4.61 | 2.83 |
| 0/1 | 1/1 | 2.75 | 3 |
| 1/1 | 1/1 | 4.26 | 4.56 |
| 1/1 | 1/1 | 4.65 | 4.96 |
| 1/1 | 1/1 | 6.23 | 6.65 |
| 1/1 | 1/1 | 5.28 | 5.94 |
| 1/1 | 1/1 | 4.51 | 3.76 |
| 1/1 | 1/1 | 4.8 | 6.22 |
| 1/1 | 1/1 | 4.67 | 6.14 |
| 1/1 | 1/1 | 6.01 | 7.48 |
| 1/1 | 1/1 | 6.76 | 5.74 |
| 1/1 | 1/1 | 6.39 | 5.42 |
| 1/1 | 0/1 | 3.23 | 2.59 |
| 1/1 | 1/1 | 6.15 | 5.55 |
| 1/1 | 1/1 | 3.79 | 3.2 |
| 1/1 | 1/1 | 5.55 | 7.25 |
| 1/1 | 1/1 | 3.19 | 5.01 |
| 1/1 | 0/1 | 7.47 | 5.98 |
| 0/1 | 1/1 | 3.85 | 4.77 |
| 0/1 | 1/1 | 4.93 | 5.88 |
| 1/1 | 1/1 | 4.82 | 5.84 |
| 0/1 | 1/1 | 2.67 | 3.85 |
| 1/1 | 1/1 | 5.59 | 6.84 |
| 1/1 | 0/1 | 8.53 | 7.94 |
| 1/1 | 1/1 | 7.58 | 7.07 |
| 1/1 | 1/1 | 7.6 | 6.98 |
| 1/1 | 1/1 | 9.81 | 9.19 |
| 1/1 | 1/1 | 7.7 | 4.98 |
| 1/1 | 1/1 | 6.71 | 6.12 |
| 1/1 | 1/1 | 4.58 | 4.11 |
| 1/1 | 1/1 | 5.37 | 4.91 |
| 1/1 | 1/1 | 11.73 | 11.36 |
| 1/1 | 1/1 | 12.06 | 11.88 |
| 1/1 | 1/1 | 11.73 | 11.57 |
| 0/1 | 1/1 | 6.64 | 8.67 |
| 1/1 | 1/1 | 9.79 | 8.87 |
| 1/1 | 1/1 | 6.29 | 7.49 |
| 1/1 | 1/1 | 5.13 | 6.44 |
| 1/1 | 1/1 | 7.23 | 4.97 |
| 1/1 | 1/1 | 7.67 | 5.49 |
| 1/1 | 1/1 | 6.4 | 5.64 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.86 | 3.12 |
| 1/1 | 0/1 | 3.12 | 2.43 |
| 0/1 | 1/1 | 3.27 | 4.87 |
| 1/1 | 1/1 | 5.77 | 4.23 |
| 1/1 | 1/1 | 6.08 | 4.6 |
| 1/1 | 1/1 | 3.42 | 3.98 |
| 1/1 | 1/1 | 5.46 | 6.13 |
| 0/1 | 1/1 | 2.28 | 3.1 |
| 1/1 | 1/1 | 8.15 | 8.99 |
| 1/1 | 1/1 | 7.16 | 8.01 |
| 0/1 | 1/1 | 4.75 | 5.95 |
| 0/1 | 1/1 | 3.08 | 3.17 |
| 1/1 | 1/1 | 8.03 | 8.13 |
| 1/1 | 1/1 | 4.25 | 6.45 |
| 1/1 | 1/1 | 3.88 | 6.09 |
| 1/1 | 1/1 | 7.68 | 6.86 |
| 1/1 | 1/1 | 3.64 | 4.98 |
| 1/1 | 1/1 | 4.53 | 5.94 |
| 1/1 | 1/1 | 8.65 | 8.27 |
| 1/1 | 1/1 | 5.12 | 4.82 |
| 1/1 | 0/1 | 6.91 | 6.09 |
| 1/1 | 1/1 | 5.68 | 6.97 |
| 1/1 | 1/1 | 5.59 | 7.19 |
| 1/1 | 1/1 | 4.67 | 6.31 |
| 1/1 | 1/1 | 5.99 | 5.13 |
| 0/1 | 1/1 | 3.45 | 6.3 |
| 1/1 | 1/1 | 3.84 | 2.69 |
| 1/1 | 1/1 | 6.19 | 5.13 |
| 1/1 | 1/1 | 7.16 | 8.73 |
| 1/1 | 1/1 | 5.27 | 4.47 |
| 0/1 | 1/1 | 4.83 | 6.92 |
| 1/1 | 1/1 | 6.17 | 5.47 |
| 1/1 | 0/1 | 2.77 | 2.08 |
| 1/1 | 1/1 | 5.03 | 4.43 |
| 1/1 | 1/1 | 3.84 | 2.79 |
| 0/1 | 1/1 | 4.4 | 5.5 |
| 0/1 | 1/1 | 2.68 | 3.84 |
| 1/1 | 1/1 | 3.33 | 5.51 |
| 1/1 | 1/1 | 7.01 | 6.11 |
| 1/1 | 1/1 | 2.85 | 4.26 |
| 1/1 | 1/1 | 4.3 | 5.78 |
| 1/1 | 1/1 | 3.05 | 4.6 |
| 0/1 | 1/1 | 3.06 | 5.09 |
| 1/1 | 1/1 | 4.67 | 3.45 |
| 1/1 | 1/1 | 3.43 | 4.42 |
| 1/1 | 1/1 | 3.09 | 4.64 |
| 1/1 | 1/1 | 9.57 | 8.59 |
| 1/1 | 1/1 | 8.81 | 7.86 |
| 1/1 | 1/1 | 2.72 | 5.19 |
| 1/1 | 1/1 | 4.71 | 3.55 |
| 1/1 | 1/1 | 5.32 | 4.19 |
| 1/1 | 1/1 | 7.56 | 8.53 |
| 1/1 | 1/1 | 6.86 | 7.86 |
| 1/1 | 1/1 | 6.44 | 7.46 |
| 0/1 | 1/1 | 2.89 | 3.92 |
| 1/1 | 1/1 | 3.45 | 4.6 |
| 1/1 | 1/1 | 4.08 | 5.25 |
| 1/1 | 1/1 | 4.68 | 5.89 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.79 | 4.12 |
| 0/1 | 1/1 | 2.4 | 3.85 |
| 1/1 | 1/1 | 3.34 | 4.8 |
| 1/1 | 1/1 | 3.67 | 5.21 |
| 1/1 | 1/1 | 4.99 | 4.19 |
| 1/1 | 1/1 | 5.38 | 4.67 |
| 1/1 | 1/1 | 7.17 | 6.38 |
| 1/1 | 1/1 | 5.02 | 4.32 |
| 1/1 | 1/1 | 9.03 | 7.3 |
| 1/1 | 1/1 | 7.64 | 8.16 |
| 1/1 | 1/1 | 5.46 | 4.15 |
| 1/1 | 1/1 | 6.29 | 5 |
| 0/1 | 1/1 | 3.97 | 5.5 |
| 1/1 | 1/1 | 7.47 | 7.02 |
| 1/1 | 1/1 | 9.19 | 8.8 |
| 1/1 | 1/1 | 3.46 | 3.1 |
| 1/1 | 0/1 | 3.18 | 2.46 |
| 1/1 | 1/1 | 6.4 | 5.69 |
| 1/1 | 1/1 | 5.25 | 4.58 |
| 1/1 | 1/1 | 5.61 | 7.01 |
| 0/1 | 1/1 | 2.22 | 3.8 |
| 1/1 | 1/1 | 6.97 | 6.38 |
| 1/1 | 1/1 | 7.4 | 6.88 |
| 1/1 | 1/1 | 5.6 | 5.09 |
| 1/1 | 1/1 | 2.73 | 5.1 |
| 1/1 | 1/1 | 7.18 | 4.79 |
| 1/1 | 1/1 | 5.79 | 5.6 |
| 1/1 | 1/1 | 7.24 | 6.32 |
| 1/1 | 1/1 | 3.92 | 5.77 |
| 1/1 | 1/1 | 5.61 | 4.49 |
| 0/1 | 1/1 | 3.57 | 4.57 |
| 1/1 | 1/1 | 3.67 | 4.8 |
| 1/1 | 1/1 | 5.81 | 6.99 |
| 1/1 | 1/1 | 4.01 | 5.29 |
| 1/1 | 1/1 | 5.78 | 7.26 |
| 1/1 | 1/1 | 11.52 | 10.35 |
| 1/1 | 0/1 | 10.66 | 9.57 |
| 1/1 | 1/1 | 7.93 | 8.92 |
| 1/1 | 1/1 | 7.93 | 8.92 |
| 1/1 | 1/1 | 7.07 | 6.37 |
| 0/1 | 1/1 | 3.85 | 5.4 |
| 1/1 | 0/1 | 5.32 | 4.51 |
| 1/1 | 1/1 | 4.94 | 4.13 |
| 1/1 | 1/1 | 4.49 | 6.11 |
| 1/1 | 1/1 | 4.02 | 3.45 |
| 1/1 | 1/1 | 3.49 | 5.16 |
| 1/1 | 1/1 | 6.46 | 6.13 |
| 1/1 | 1/1 | 3.4 | 5.54 |
| 1/1 | 1/1 | 7.2 | 6.07 |
| 1/1 | 1/1 | 5.47 | 4.38 |
| 0/1 | 1/1 | 2.12 | 3.3 |
| 0/1 | 1/1 | 2.48 | 3.92 |
| 0/1 | 1/1 | 2.48 | 4.08 |
| 1/1 | 1/1 | 8.3 | 6.21 |
| 0/1 | 1/1 | 6.01 | 6.09 |
| 0/1 | 1/1 | 6.87 | 6.95 |
| 1/1 | 1/1 | 7.56 | 7.73 |
| 0/1 | 1/1 | 4.31 | 4.62 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.38 | 2.75 |
| 1/1 | 1/1 | 3.24 | 2.76 |
| 1/1 | 1/1 | 9.7 | 9.3 |
| 1/1 | 1/1 | 3.91 | 5.56 |
| 1/1 | 1/1 | 4.57 | 3.33 |
| 0/1 | 1/1 | 2.65 | 3.7 |
| 1/1 | 1/1 | 6.36 | 5.35 |
| 0/1 | 1/1 | 2.61 | 3.85 |
| 1/1 | 1/1 | 5.65 | 7.02 |
| 0/1 | 1/1 | 2.87 | 5.43 |
| 1/1 | 0/1 | 7.99 | 6.87 |
| 0/1 | 1/1 | 2.2 | 3.18 |
| 0/1 | 1/1 | 3.38 | 4.64 |
| 0/1 | 1/1 | 3.49 | 4.75 |
| 1/1 | 1/1 | 6.07 | 7.54 |
| 0/1 | 1/1 | 4.09 | 5.67 |
| 1/1 | 1/1 | 5.53 | 7.12 |
| 1/1 | 1/1 | 5.39 | 4.39 |
| 1/1 | 1/1 | 4.57 | 3.58 |
| 0/1 | 1/1 | 2.43 | 4.09 |
| 1/1 | 0/1 | 3.71 | 2.87 |
| 1/1 | 0/1 | 4.26 | 3.5 |
| 0/1 | 1/1 | 3.07 | 5.69 |
| 1/1 | 1/1 | 4.87 | 3.61 |
| 0/1 | 1/1 | 3.22 | 4.05 |
| 1/1 | 1/1 | 6.77 | 6.12 |
| 1/1 | 1/1 | 3.94 | 5.59 |
| 1/1 | 1/1 | 5.79 | 7.59 |
| 0/1 | 1/1 | 2.49 | 4.77 |
| 1/1 | 1/1 | 4.34 | 2.5 |
| 1/1 | 1/1 | 3.1 | 3.53 |
| 1/1 | 1/1 | 4 | 3.13 |
| 0/1 | 1/1 | 3.63 | 5.09 |
| 0/1 | 1/1 | 4.6 | 6.06 |
| 1/1 | 1/1 | 4.57 | 6.28 |
| 1/1 | 0/1 | 5.76 | 2.55 |
| 1/1 | 1/1 | 6.49 | 3.29 |
| 1/1 | 0/1 | 3.51 | 2.58 |
| 1/1 | 1/1 | 7.39 | 6.49 |
| 1/1 | 1/1 | 3.84 | 2.95 |
| 1/1 | 1/1 | 4.75 | 3.89 |
| 1/1 | 1/1 | 5.74 | 4.91 |
| 1/1 | 0/1 | 2.72 | 1.96 |
| 1/1 | 0/1 | 4.43 | 3.77 |
| 1/1 | 0/1 | 3.13 | 2.81 |
| 0/1 | 1/1 | 2.9 | 2.76 |
| 1/1 | 1/1 | 8.58 | 8.52 |
| 1/1 | 1/1 | 10.19 | 10.19 |
| 1/1 | 1/1 | 4.27 | 4.46 |
| 1/1 | 1/1 | 6.67 | 7.31 |
| 1/1 | 1/1 | 5.6 | 5.16 |
| 1/1 | 1/1 | 5.15 | 4.73 |
| 0/1 | 1/1 | 4.07 | 3.69 |
| 1/1 | 1/1 | 4.5 | 6.28 |
| 0/1 | 1/1 | 3.01 | 5.99 |
| 1/1 | 1/1 | 6.28 | 5.46 |
| 1/1 | 1/1 | 5.43 | 4.63 |
| 1/1 | 1/1 | 7.66 | 7.03 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.07 | 7.87 |
| 1/1 | 1/1 | 4.16 | 5.99 |
| 1/1 | 1/1 | 4.63 | 6.76 |
| 0/1 | 1/1 | 2.97 | 5.69 |
| 1/1 | 1/1 | 7.1 | 6.51 |
| 1/1 | 1/1 | 5.49 | 4.93 |
| 1/1 | 1/1 | 7.65 | 7.08 |
| 0/1 | 1/1 | 3.5 | 5.19 |
| 1/1 | 1/1 | 5.65 | 7.37 |
| 0/1 | 1/1 | 4.17 | 6.27 |
| 1/1 | 1/1 | 8.43 | 7.16 |
| 0/1 | 1/1 | 3.46 | 4.3 |
| 1/1 | 1/1 | 3.6 | 4.44 |
| 1/1 | 1/1 | 4.84 | 5.77 |
| 0/1 | 1/1 | 3.33 | 4.3 |
| 1/1 | 0/1 | 4.41 | 3.7 |
| 1/1 | 1/1 | 3.64 | 2.97 |
| 0/1 | 1/1 | 3.21 | 4.82 |
| 1/1 | 1/1 | 7.09 | 5.95 |
| 1/1 | 1/1 | 6.48 | 7.91 |
| 1/1 | 1/1 | 7.22 | 8.84 |
| 1/1 | 1/1 | 5.6 | 7.75 |
| 0/1 | 1/1 | 4.46 | 6.84 |
| 0/1 | 1/1 | 3.05 | 6.12 |
| 1/1 | 1/1 | 4.92 | 2.92 |
| 1/1 | 1/1 | 5.36 | 5.65 |
| 1/1 | 1/1 | 4.83 | 5.12 |
| 0/1 | 1/1 | 6.27 | 6.68 |
| 1/1 | 1/1 | 4.86 | 3.79 |
| 1/1 | 1/1 | 6.14 | 7.16 |
| 1/1 | 1/1 | 5.52 | 4.7 |
| 0/1 | 1/1 | 3.29 | 4.55 |
| 1/1 | 1/1 | 5.26 | 7.19 |
| 1/1 | 1/1 | 5.38 | 4.98 |
| 1/1 | 1/1 | 3.96 | 3.6 |
| 1/1 | 1/1 | 4.45 | 6.15 |
| 1/1 | 1/1 | 4.58 | 6.39 |
| 1/1 | 0/1 | 3.58 | 2.23 |
| 1/1 | 1/1 | 5.74 | 6.94 |
| 1/1 | 1/1 | 7.74 | 5.31 |
| 1/1 | 1/1 | 5.47 | 5.24 |
| 0/1 | 1/1 | 2.97 | 2.9 |
| 1/1 | 1/1 | 5.12 | 5.23 |
| 0/1 | 1/1 | 4.48 | 5.13 |
| 1/1 | 1/1 | 8.22 | 4.82 |
| 1/1 | 0/1 | 3.57 | 2.28 |
| 1/1 | 1/1 | 6.4 | 5.23 |
| 1/1 | 1/1 | 4.27 | 3.4 |
| 1/1 | 1/1 | 5.72 | 4.86 |
| 1/1 | 1/1 | 3.4 | 2.8 |
| 1/1 | 1/1 | 6.43 | 5.89 |
| 1/1 | 1/1 | 4.98 | 4.5 |
| 1/1 | 0/1 | 2.54 | 2.14 |
| 1/1 | 1/1 | 2.98 | 2.67 |
| 1/1 | 1/1 | 8.52 | 8.29 |
| 1/1 | 0/1 | 2.36 | 2.21 |
| 1/1 | 1/1 | 7.21 | 7.11 |
| 0/1 | 1/1 | 2.5 | 2.41 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.76 | 9.7 |
| 0/1 | 1/1 | 2.53 | 2.87 |
| 0/1 | 1/1 | 3.72 | 4.44 |
| 1/1 | 1/1 | 5.09 | 4.69 |
| 0/1 | 1/1 | 1.77 | 4.86 |
| 0/1 | 1/1 | 3.55 | 3.14 |
| 1/1 | 0/1 | 2.68 | 2.28 |
| 1/1 | 1/1 | 5.42 | 7.11 |
| 1/1 | 1/1 | 5.31 | 7.08 |
| 1/1 | 1/1 | 3.55 | 2.72 |
| 1/1 | 1/1 | 4.23 | 3.41 |
| 0/1 | 1/1 | 3.18 | 5.15 |
| 1/1 | 1/1 | 6.13 | 5.18 |
| 1/1 | 0/1 | 5.1 | 4.2 |
| 1/1 | 1/1 | 3.95 | 5.4 |
| 1/1 | 1/1 | 6.66 | 5.53 |
| 1/1 | 1/1 | 4.11 | 3.01 |
| 0/1 | 1/1 | 3.89 | 5.31 |
| 1/1 | 1/1 | 6.59 | 4.43 |
| 1/1 | 0/1 | 5.06 | 2.96 |
| 1/1 | 1/1 | 3.86 | 3.86 |
| 1/1 | 1/1 | 6.11 | 6.14 |
| 1/1 | 1/1 | 3.32 | 3.41 |
| 1/1 | 0/1 | 5.93 | 4.2 |
| 1/1 | 1/1 | 5.9 | 4.23 |
| 1/1 | 1/1 | 6.86 | 7.52 |
| 0/1 | 1/1 | 2.44 | 3.52 |
| 1/1 | 1/1 | 3.49 | 2.98 |
| 0/1 | 1/1 | 3.56 | 5.27 |
| 1/1 | 1/1 | 4.51 | 6.37 |
| 0/1 | 1/1 | 2.43 | 4.77 |
| 1/1 | 1/1 | 11.02 | 8.59 |
| 1/1 | 1/1 | 10.94 | 11.21 |
| 1/1 | 1/1 | 7.75 | 6.68 |
| 1/1 | 1/1 | 4.57 | 5.93 |
| 1/1 | 1/1 | 3.35 | 2.45 |
| 1/1 | 1/1 | 4.18 | 5.75 |
| 1/1 | 1/1 | 6.98 | 6.83 |
| 1/1 | 1/1 | 5.34 | 7.43 |
| 0/1 | 1/1 | 2.45 | 4.98 |
| 1/1 | 1/1 | 5.49 | 4.55 |
| 1/1 | 1/1 | 4.25 | 5.56 |
| 1/1 | 1/1 | 4.82 | 6.15 |
| 1/1 | 1/1 | 4.09 | 3.45 |
| 0/1 | 1/1 | 3.55 | 5.08 |
| 1/1 | 1/1 | 7.38 | 7.07 |
| 0/1 | 1/1 | 4.58 | 4.36 |
| 1/1 | 1/1 | 7.26 | 6.12 |
| 0/1 | 1/1 | 1.73 | 2.89 |
| 1/1 | 1/1 | 6.83 | 5.13 |
| 1/1 | 1/1 | 3.38 | 3.91 |
| 1/1 | 1/1 | 7.26 | 6.39 |
| 1/1 | 1/1 | 7.01 | 6.15 |
| 1/1 | 1/1 | 3.82 | 5.09 |
| 0/1 | 1/1 | 3.44 | 5.18 |
| 1/1 | 1/1 | 5.46 | 4.28 |
| 1/1 | 0/1 | 3.35 | 2.2 |
| 1/1 | 1/1 | 7.65 | 8.55 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3 | 3.93 |
| 1/1 | 1/1 | 3.54 | 4.49 |
| 1/1 | 1/1 | 4.38 | 5.41 |
| 1/1 | 0/1 | 4.08 | 2.72 |
| 0/1 | 1/1 | 2.75 | 3.5 |
| 1/1 | 1/1 | 3.38 | 4.29 |
| 0/1 | 1/1 | 2.35 | 3.85 |
| 1/1 | 1/1 | 4.36 | 3.27 |
| 1/1 | 0/1 | 8.46 | 7.39 |
| 1/1 | 1/1 | 7.07 | 5.29 |
| 1/1 | 1/1 | 7.73 | 8.04 |
| 0/1 | 1/1 | 2.98 | 3.38 |
| 1/1 | 1/1 | 6.77 | 7.2 |
| 0/1 | 1/1 | 3.68 | 4.72 |
| 1/1 | 1/1 | 4.26 | 5.75 |
| 1/1 | 0/1 | 4.19 | 3.39 |
| 1/1 | 1/1 | 5.78 | 4.98 |
| 0/1 | 1/1 | 3.07 | 4.34 |
| 1/1 | 1/1 | 4.31 | 5.64 |
| 0/1 | 1/1 | 3.38 | 4.89 |
| 1/1 | 1/1 | 5.36 | 7.25 |
| 1/1 | 1/1 | 7.72 | 5.21 |
| 1/1 | 1/1 | 4.94 | 4.57 |
| 1/1 | 1/1 | 5.16 | 4.85 |
| 1/1 | 1/1 | 6.58 | 6.38 |
| 0/1 | 1/1 | 6.68 | 6.63 |
| 1/1 | 1/1 | 4.48 | 4.45 |
| 1/1 | 1/1 | 9.49 | 9.49 |
| 1/1 | 0/1 | 4.3 | 2.98 |
| 1/1 | 1/1 | 7.24 | 5.99 |
| 1/1 | 0/1 | 5.52 | 3.89 |
| 1/1 | 1/1 | 3.99 | 2.41 |
| 1/1 | 0/1 | 3.28 | 2.58 |
| 0/1 | 1/1 | 3.29 | 4.8 |
| 0/1 | 1/1 | 2.46 | 4.08 |
| 0/1 | 1/1 | 3 | 4.94 |
| 0/1 | 1/1 | 2.61 | 4.55 |
| 0/1 | 1/1 | 2.35 | 4.41 |
| 0/1 | 1/1 | 2.51 | 4.63 |
| 0/1 | 1/1 | 2.48 | 4.79 |
| 1/1 | 1/1 | 11.53 | 10.34 |
| 0/1 | 1/1 | 5.47 | 6.83 |
| 1/1 | 1/1 | 6.97 | 5.8 |
| 1/1 | 1/1 | 4.34 | 5.35 |
| 1/1 | 1/1 | 5.54 | 4.67 |
| 1/1 | 1/1 | 5.18 | 6.81 |
| 1/1 | 1/1 | 6.89 | 6.1 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 7.36 | 4.82 |
| 1/1 | 1/1 | 10.55 | 8.06 |
| 1/1 | 1/1 | 4.61 | 4.18 |
| 1/1 | 1/1 | 5.29 | 4.89 |
| 1/1 | 1/1 | 5.55 | 5.28 |
| 0/1 | 1/1 | 7.27 | 7.01 |
| 1/1 | 1/1 | 5.42 | 5.22 |
| 1/1 | 1/1 | 5.76 | 5.8 |
| 1/1 | 1/1 | 10.75 | 10.84 |
| 1/1 | 1/1 | 4.49 | 4.71 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 7.34 | 7.71 |
| 1/1 | 1/1 | 4.1 | 3.01 |
| 1/1 | 1/1 | 4.16 | 5.22 |
| 1/1 | 1/1 | 10.13 | 8.48 |
| 1/1 | 0/1 | 3.86 | 2.23 |
| 1/1 | 1/1 | 8.32 | 6.7 |
| 1/1 | 1/1 | 4.24 | 4.69 |
| 0/1 | 1/1 | 2.48 | 3.12 |
| 0/1 | 1/1 | 1.99 | 2.93 |
| 0/1 | 1/1 | 3.3 | 4.35 |
| 1/1 | 1/1 | 5.87 | 2.57 |
| 1/1 | 0/1 | 6.22 | 5 |
| 1/1 | 1/1 | 6.98 | 6.04 |
| 1/1 | 1/1 | 6.77 | 6.23 |
| 1/1 | 1/1 | 4.82 | 4.46 |
| 1/1 | 1/1 | 4.76 | 4.47 |
| 1/1 | 1/1 | 4.15 | 3.95 |
| 1/1 | 1/1 | 3.55 | 3.72 |
| 1/1 | 0/1 | 5.31 | 4.35 |
| 1/1 | 1/1 | 3.73 | 4.83 |
| 0/1 | 1/1 | 2.79 | 4.09 |
| 1/1 | 1/1 | 4.32 | 5.73 |
| 0/1 | 1/1 | 3 | 4.67 |
| 1/1 | 1/1 | 6.11 | 7.84 |
| 1/1 | 1/1 | 3.8 | 5.57 |
| 1/1 | 0/1 | 6.76 | 5.45 |
| 0/1 | 1/1 | 2.13 | 3.02 |
| 1/1 | 1/1 | 9.37 | 8.34 |
| 0/1 | 1/1 | 5.54 | 6.77 |
| 1/1 | 1/1 | 5.62 | 7.03 |
| 1/1 | 1/1 | 5.55 | 7.08 |
| 1/1 | 1/1 | 5.25 | 7.4 |
| 1/1 | 0/1 | 5.54 | 4.16 |
| 1/1 | 0/1 | 9.77 | 8.4 |
| 1/1 | 0/1 | 3.67 | 2.32 |
| 1/1 | 0/1 | 3.25 | 2.47 |
| 1/1 | 1/1 | 3.97 | 5.43 |
| 1/1 | 1/1 | 5.7 | 5.53 |
| 0/1 | 1/1 | 5.61 | 7.53 |
| 0/1 | 1/1 | 6.02 | 8.49 |
| 0/1 | 1/1 | 3.1 | 7.03 |
| 1/1 | 1/1 | 7.87 | 7.01 |
| 0/1 | 1/1 | 2.04 | 3.78 |
| 1/1 | 1/1 | 4.22 | 3.85 |
| 0/1 | 1/1 | 1.99 | 3.91 |
| 0/1 | 1/1 | 3.65 | 5.67 |
| 1/1 | 1/1 | 5.06 | 7.23 |
| 1/1 | 1/1 | 8.49 | 7.59 |
| 1/1 | 1/1 | 4.91 | 6.3 |
| 1/1 | 1/1 | 4.11 | 3.2 |
| 0/1 | 1/1 | 3.53 | 4.72 |
| 0/1 | 1/1 | 4.05 | 6.27 |
| 0/1 | 1/1 | 5.55 | 4.84 |
| 1/1 | 1/1 | 5.79 | 7.19 |
| 1/1 | 1/1 | 10.42 | 7.79 |
| 1/1 | 1/1 | 5.73 | 5.21 |
| 1/1 | 1/1 | 10.32 | 9.97 |
| 1/1 | 1/1 | 5.25 | 4.93 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 9.15 | 8.87 |
| 1/1 | 1/1 | 4.37 | 4.13 |
| 1/1 | 1/1 | 4.07 | 3.86 |
| 1/1 | 1/1 | 6.88 | 6.74 |
| 1/1 | 1/1 | 6 | 5.88 |
| 1/1 | 1/1 | 7.39 | 8.01 |
| 1/1 | 1/1 | 7.2 | 6.85 |
| 1/1 | 1/1 | 7.49 | 9.52 |
| 1/1 | 1/1 | 7.2 | 6.85 |
| 1/1 | 1/1 | 7.49 | 9.52 |
| 1/1 | 1/1 | 7.94 | 7.07 |
| 0/1 | 1/1 | 3.52 | 4.72 |
| 1/1 | 1/1 | 6.88 | 6.2 |
| 1/1 | 1/1 | 3.34 | 2.72 |
| 0/1 | 1/1 | 3.96 | 3.35 |
| 0/1 | 1/1 | 4.85 | 6.25 |
| 0/1 | 1/1 | 4.46 | 6.03 |
| 1/1 | 1/1 | 4.84 | 6.47 |
| 0/1 | 1/1 | 4.03 | 5.75 |
| 1/1 | 0/1 | 4.77 | 3.74 |
| 1/1 | 1/1 | 5.95 | 4.99 |
| 1/1 | 1/1 | 6.89 | 5.58 |
| 1/1 | 1/1 | 5.07 | 5.91 |
| 1/1 | 0/1 | 3.97 | 2.55 |
| 0/1 | 1/1 | 4.59 | 5.27 |
| 1/1 | 1/1 | 7.28 | 8.17 |
| 1/1 | 1/1 | 8.08 | 6.91 |
| 1/1 | 1/1 | 5.12 | 6.26 |
| 0/1 | 1/1 | 3.9 | 5.11 |
| 1/1 | 1/1 | 5.08 | 6.47 |
| 1/1 | 1/1 | 4.48 | 6.16 |
| 1/1 | 0/1 | 4.35 | 2.81 |
| 0/1 | 1/1 | 2.52 | 3.04 |
| 1/1 | 1/1 | 5.59 | 6.1 |
| 1/1 | 1/1 | 6.68 | 7.23 |
| 1/1 | 1/1 | 5.9 | 6.53 |
| 1/1 | 1/1 | 6.2 | 6.85 |
| 1/1 | 1/1 | 5.78 | 6.44 |
| 1/1 | 1/1 | 6.75 | 7.52 |
| 1/1 | 1/1 | 6.24 | 7.07 |
| 1/1 | 1/1 | 5 | 5.89 |
| 1/1 | 1/1 | 4.68 | 5.76 |
| 1/1 | 1/1 | 3.96 | 5.23 |
| 1/1 | 1/1 | 4.07 | 5.48 |
| 1/1 | 1/1 | 4.7 | 3.99 |
| 1/1 | 1/1 | 3.43 | 5.23 |
| 1/1 | 1/1 | 5.45 | 4.26 |
| 1/1 | 1/1 | 6.26 | 5.1 |
| 1/1 | 1/1 | 4.04 | 4.95 |
| 1/1 | 1/1 | 3.81 | 4.77 |
| 0/1 | 1/1 | 7.33 | 6.89 |
| 0/1 | 1/1 | 2.14 | 4.46 |
| 1/1 | 1/1 | 8.28 | 7.6 |
| 1/1 | 1/1 | 5.05 | 4.39 |
| 0/1 | 1/1 | 1.77 | 4.27 |
| 1/1 | 1/1 | 5.37 | 4.25 |
| 0/1 | 1/1 | 2.89 | 3.86 |
| 0/1 | 1/1 | 8.24 | 9.67 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.06 | 8.62 |
| 1/1 | 1/1 | 5.59 | 5.19 |
| 1/1 | 1/1 | 9.31 | 8.45 |
| 1/1 | 0/1 | 7.26 | 6.46 |
| 1/1 | 1/1 | 7.51 | 6.84 |
| 0/1 | 1/1 | 3.47 | 5.54 |
| 1/1 | 1/1 | 4.48 | 7.1 |
| 1/1 | 1/1 | 6.66 | 5.28 |
| 0/1 | 1/1 | 3.65 | 4.54 |
| 1/1 | 1/1 | 12.37 | 12.26 |
| 1/1 | 1/1 | 5.18 | 5.07 |
| 0/1 | 1/1 | 3.09 | 5.73 |
| 1/1 | 1/1 | 7.68 | 6.94 |
| 0/1 | 1/1 | 2.56 | 4.31 |
| 1/1 | 1/1 | 4.52 | 3.7 |
| 0/1 | 1/1 | 3.2 | 4.47 |
| 1/1 | 1/1 | 5.33 | 6.72 |
| 0/1 | 1/1 | 2.29 | 3.79 |
| 1/1 | 1/1 | 4.36 | 5.87 |
| 1/1 | 1/1 | 4.18 | 5.7 |
| 0/1 | 1/1 | 4.04 | 5.6 |
| 0/1 | 1/1 | 3.17 | 4.88 |
| 1/1 | 1/1 | 4.87 | 6.72 |
| 0/1 | 1/1 | 2.97 | 4.95 |
| 0/1 | 1/1 | 3.55 | 5.64 |
| 0/1 | 1/1 | 3.67 | 6.18 |
| 1/1 | 1/1 | 5.94 | 5.02 |
| 1/1 | 0/1 | 4.07 | 3.17 |
| 1/1 | 1/1 | 5.01 | 4.16 |
| 1/1 | 1/1 | 5.35 | 6.54 |
| 0/1 | 1/1 | 4.27 | 6.43 |
| 1/1 | 1/1 | 7.64 | 7.19 |
| 1/1 | 1/1 | 8.53 | 8.08 |
| 1/1 | 1/1 | 3.86 | 3.47 |
| 1/1 | 1/1 | 6.5 | 5.61 |
| 1/1 | 1/1 | 4.76 | 6.19 |
| 1/1 | 1/1 | 8.56 | 7.48 |
| 1/1 | 1/1 | 6.03 | 7.43 |
| 0/1 | 1/1 | 4.74 | 6.55 |
| 1/1 | 1/1 | 3.69 | 5.62 |
| 1/1 | 1/1 | 5.9 | 5.11 |
| 1/1 | 1/1 | 6.84 | 6.09 |
| 0/1 | 1/1 | 6.73 | 8.04 |
| 0/1 | 1/1 | 3.49 | 4.94 |
| 1/1 | 1/1 | 4.02 | 5.6 |
| 1/1 | 1/1 | 4.2 | 5.78 |
| 1/1 | 1/1 | 8.32 | 7.82 |
| 0/1 | 1/1 | 2.05 | 3.79 |
| 0/1 | 1/1 | 3.24 | 5.32 |
| 0/1 | 1/1 | 3.06 | 5.44 |
| 1/1 | 1/1 | 4.75 | 3.87 |
| 1/1 | 1/1 | 6.36 | 7.58 |
| 1/1 | 1/1 | 6.07 | 7.31 |
| 1/1 | 1/1 | 10.11 | 11.34 |
| 1/1 | 1/1 | 4.94 | 4.48 |
| 0/1 | 1/1 | 2.35 | 3.98 |
| 1/1 | 1/1 | 5.92 | 4.99 |
| 1/1 | 1/1 | 5.25 | 6.51 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.72 | 4.72 |
| 1/1 | 1/1 | 9.83 | 9.44 |
| 1/1 | 1/1 | 5.65 | 5.29 |
| 1/1 | 1/1 | 7.18 | 4.12 |
| 1/1 | 0/1 | 3.92 | 3.11 |
| 1/1 | 1/1 | 7.29 | 6.67 |
| 1/1 | 1/1 | 4.14 | 3.59 |
| 1/1 | 1/1 | 5.71 | 5.26 |
| 0/1 | 1/1 | 3.05 | 2.61 |
| 1/1 | 1/1 | 6.79 | 6.35 |
| 1/1 | 1/1 | 4.83 | 4.49 |
| 0/1 | 1/1 | 4.09 | 3.79 |
| 1/1 | 1/1 | 6.2 | 5.92 |
| 1/1 | 1/1 | 6.67 | 6.42 |
| 1/1 | 1/1 | 6.98 | 6.79 |
| 1/1 | 1/1 | 10.71 | 10.53 |
| 1/1 | 1/1 | 2.62 | 2.58 |
| 1/1 | 1/1 | 7.71 | 7.69 |
| 1/1 | 1/1 | 3.15 | 3.16 |
| 0/1 | 1/1 | 2.91 | 2.92 |
| 1/1 | 1/1 | 6.07 | 6.11 |
| 1/1 | 1/1 | 10.38 | 10.55 |
| 1/1 | 1/1 | 4.13 | 4.41 |
| 1/1 | 1/1 | 5.15 | 5.44 |
| 1/1 | 1/1 | 6.29 | 6.59 |
| 1/1 | 1/1 | 5.57 | 5.94 |
| 1/1 | 0/1 | 3.84 | 2.64 |
| 0/1 | 1/1 | 4.06 | 4.94 |
| 1/1 | 1/1 | 3.15 | 4.47 |
| 1/1 | 1/1 | 4.79 | 3.33 |
| 1/1 | 1/1 | 5.91 | 4.46 |
| 0/1 | 1/1 | 3.09 | 4.66 |
| 1/1 | 1/1 | 5.52 | 4.57 |
| 1/1 | 1/1 | 4.72 | 3.79 |
| 1/1 | 1/1 | 4.56 | 5.74 |
| 0/1 | 1/1 | 3.49 | 4.96 |
| 1/1 | 1/1 | 6.95 | 6.51 |
| 1/1 | 1/1 | 9 | 8.58 |
| 1/1 | 1/1 | 4.05 | 5.69 |
| 1/1 | 1/1 | 7.24 | 5.57 |
| 1/1 | 1/1 | 6.45 | 4.83 |
| 0/1 | 1/1 | 4.64 | 5.08 |
| 1/1 | 1/1 | 6.27 | 6.73 |
| 0/1 | 1/1 | 5.39 | 6.28 |
| 1/1 | 1/1 | 5.52 | 3.9 |
| 1/1 | 1/1 | 3.8 | 4.46 |
| 0/1 | 1/1 | 3.65 | 4.45 |
| 1/1 | 1/1 | 3.5 | 4.58 |
| 1/1 | 1/1 | 5.35 | 6.61 |
| 1/1 | 1/1 | 7.68 | 7.19 |
| 0/1 | 1/1 | 3.58 | 5.55 |
| 1/1 | 1/1 | 3.52 | 5.82 |
| 0/1 | 1/1 | 2.72 | 5.54 |
| 1/1 | 1/1 | 8.03 | 7.06 |
| 0/1 | 1/1 | 2.26 | 3.38 |
| 1/1 | 1/1 | 5.71 | 4.69 |
| 1/1 | 0/1 | 3.55 | 2.56 |
| 1/1 | 1/1 | 5.96 | 7.44 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 3.25 | 2.21 |
| 1/1 | 1/1 | 2.63 | 3.75 |
| 0/1 | 1/1 | 2.51 | 3.63 |
| 1/1 | 1/1 | 5.77 | 7.27 |
| 1/1 | 0/1 | 9.04 | 8.02 |
| 1/1 | 1/1 | 3.66 | 4.87 |
| 1/1 | 1/1 | 6.89 | 5.47 |
| 1/1 | 1/1 | 5.91 | 6.56 |
| 0/1 | 1/1 | 1.9 | 3.08 |
| 1/1 | 1/1 | 9.42 | 4.5 |
| 1/1 | 1/1 | 5.27 | 3.07 |
| 1/1 | 1/1 | 9.71 | 7.62 |
| 1/1 | 1/1 | 9.31 | 7.97 |
| 1/1 | 1/1 | 10.17 | 9.19 |
| 1/1 | 1/1 | 11.44 | 8.1 |
| 1/1 | 1/1 | 11.86 | 10.9 |
| 1/1 | 1/1 | 12.6 | 11.94 |
| 1/1 | 1/1 | 8.88 | 8.23 |
| 1/1 | 1/1 | 10.17 | 9.52 |
| 1/1 | 1/1 | 6.92 | 6.36 |
| 1/1 | 1/1 | 12.49 | 12.03 |
| 1/1 | 1/1 | 8.54 | 8.19 |
| 1/1 | 1/1 | 10.32 | 9.99 |
| 1/1 | 1/1 | 8.56 | 8.27 |
| 1/1 | 1/1 | 8.51 | 8.3 |
| 1/1 | 1/1 | 3.25 | 3.19 |
| 1/1 | 1/1 | 9.67 | 9.64 |
| 1/1 | 1/1 | 6.25 | 6.25 |
| 1/1 | 1/1 | 6.21 | 6.53 |
| 1/1 | 1/1 | 3.9 | 4.4 |
| 1/1 | 1/1 | 2.96 | 3.55 |
| 1/1 | 1/1 | 8.54 | 7.92 |
| 1/1 | 1/1 | 5.82 | 7.44 |
| 0/1 | 1/1 | 3.64 | 5.32 |
| 1/1 | 1/1 | 3.66 | 3.21 |
| 1/1 | 1/1 | 9.07 | 8.67 |
| 1/1 | 1/1 | 5.82 | 7.5 |
| 1/1 | 1/1 | 3.78 | 5.5 |
| 1/1 | 1/1 | 4.41 | 6.23 |
| 1/1 | 1/1 | 4.01 | 5.9 |
| 1/1 | 1/1 | 5.71 | 3.99 |
| 0/1 | 1/1 | 3.24 | 3.67 |
| 0/1 | 1/1 | 3.41 | 4.14 |
| 1/1 | 0/1 | 5.35 | 3.63 |
| 1/1 | 1/1 | 10.96 | 11.35 |
| 1/1 | 1/1 | 5.65 | 6.1 |
| 1/1 | 1/1 | 7.5 | 6.43 |
| 1/1 | 1/1 | 7.74 | 6.69 |
| 1/1 | 1/1 | 6.38 | 5.22 |
| 0/1 | 1/1 | 2.15 | 3.69 |
| 1/1 | 0/1 | 2.72 | 1.63 |
| 1/1 | 1/1 | 3.05 | 4.22 |
| 1/1 | 1/1 | 4.73 | 5.93 |
| 1/1 | 1/1 | 6.53 | 6.08 |
| 1/1 | 1/1 | 7.51 | 9.12 |
| 1/1 | 1/1 | 5.31 | 7.11 |
| 1/1 | 1/1 | 5.67 | 7.51 |
| 1/1 | 1/1 | 4.1 | 6.72 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.85 | 4.81 |
| 0/1 | 1/1 | 3.88 | 4.1 |
| 0/1 | 1/1 | 3.31 | 3.6 |
| 1/1 | 1/1 | 3.44 | 3.79 |
| 0/1 | 1/1 | 3.09 | 3.68 |
| 1/1 | 1/1 | 8.46 | 6.97 |
| 0/1 | 1/1 | 3.93 | 4.55 |
| 1/1 | 1/1 | 8.45 | 9.14 |
| 1/1 | 1/1 | 6.59 | 5.88 |
| 1/1 | 1/1 | 7.02 | 6.32 |
| 0/1 | 1/1 | 3.12 | 5.77 |
| 1/1 | 1/1 | 4.5 | 3.94 |
| 0/1 | 1/1 | 3.69 | 5.59 |
| 1/1 | 1/1 | 5.8 | 7.71 |
| 1/1 | 1/1 | 4.38 | 6.7 |
| 1/1 | 0/1 | 6.57 | 5.9 |
| 1/1 | 1/1 | 4.39 | 5.87 |
| 1/1 | 1/1 | 6.94 | 6.22 |
| 1/1 | 1/1 | 5.43 | 4.72 |
| 1/1 | 1/1 | 7.78 | 9.3 |
| 1/1 | 1/1 | 3.56 | 2.64 |
| 0/1 | 1/1 | 2.44 | 3.79 |
| 1/1 | 1/1 | 8.44 | 6.84 |
| 0/1 | 1/1 | 2.54 | 3.62 |
| 1/1 | 1/1 | 5.68 | 6.79 |
| 1/1 | 1/1 | 6.04 | 5.26 |
| 1/1 | 1/1 | 2.85 | 4.26 |
| 1/1 | 1/1 | 5.99 | 5.27 |
| 1/1 | 1/1 | 4.42 | 5.75 |
| 1/1 | 1/1 | 5.77 | 4.16 |
| 1/1 | 1/1 | 2.96 | 3.8 |
| 1/1 | 0/1 | 4.81 | 1.77 |
| 1/1 | 1/1 | 8.54 | 5.51 |
| 1/1 | 0/1 | 2.68 | 1.75 |
| 1/1 | 0/1 | 3.92 | 3.22 |
| 1/1 | 1/1 | 7.39 | 6.76 |
| 1/1 | 1/1 | 8.1 | 7.47 |
| 1/1 | 1/1 | 5.96 | 5.41 |
| 1/1 | 1/1 | 7.1 | 6.71 |
| 1/1 | 1/1 | 3.91 | 3.52 |
| 1/1 | 1/1 | 4.55 | 4.23 |
| 1/1 | 1/1 | 3.6 | 3.47 |
| 1/1 | 1/1 | 6.23 | 3.62 |
| 1/1 | 1/1 | 4.21 | 3.78 |
| 1/1 | 0/1 | 2.59 | 2.23 |
| 1/1 | 1/1 | 3.53 | 3.21 |
| 1/1 | 1/1 | 3.46 | 3.2 |
| 1/1 | 1/1 | 7.44 | 7.26 |
| 1/1 | 1/1 | 3.54 | 3.37 |
| 0/1 | 1/1 | 3.95 | 3.8 |
| 1/1 | 1/1 | 2.89 | 2.84 |
| 1/1 | 1/1 | 6.66 | 6.61 |
| 1/1 | 1/1 | 8.52 | 8.53 |
| 0/1 | 1/1 | 3.18 | 3.21 |
| 1/1 | 1/1 | 5.88 | 6.66 |
| 0/1 | 1/1 | 2.3 | 3.37 |
| 1/1 | 1/1 | 4.86 | 4.41 |
| 1/1 | 1/1 | 4.61 | 6.29 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.76 | 5.92 |
| 0/1 | 1/1 | 3.07 | 3.02 |
| 1/1 | 1/1 | 6.54 | 8.57 |
| 1/1 | 1/1 | 4.93 | 7.32 |
| 1/1 | 1/1 | 3.31 | 2.47 |
| 0/1 | 1/1 | 2.43 | 3.75 |
| 1/1 | 1/1 | 3.31 | 5.11 |
| 1/1 | 1/1 | 4.51 | 4.32 |
| 1/1 | 1/1 | 3.52 | 5.91 |
| 0/1 | 1/1 | 4.22 | 6.66 |
| 1/1 | 1/1 | 7.44 | 6.39 |
| 0/1 | 1/1 | 4.05 | 5.23 |
| 1/1 | 1/1 | 4.66 | 6.4 |
| 1/1 | 1/1 | 5.43 | 4.62 |
| 1/1 | 1/1 | 4.96 | 6.29 |
| 1/1 | 1/1 | 4.96 | 6.29 |
| 0/1 | 1/1 | 2.83 | 4.16 |
| 1/1 | 1/1 | 4.66 | 6.06 |
| 0/1 | 1/1 | 3.82 | 5.3 |
| 1/1 | 1/1 | 3.11 | 4.65 |
| 1/1 | 1/1 | 3.11 | 4.65 |
| 1/1 | 1/1 | 5.26 | 4.39 |
| 0/1 | 1/1 | 4.08 | 5.58 |
| 1/1 | 1/1 | 3.66 | 5.38 |
| 1/1 | 1/1 | 8.03 | 7.06 |
| 1/1 | 1/1 | 4.42 | 3.49 |
| 0/1 | 1/1 | 2.26 | 3.38 |
| 1/1 | 1/1 | 9.6 | 9.15 |
| 1/1 | 1/1 | 6.65 | 8.46 |
| 1/1 | 1/1 | 6.64 | 5.56 |
| 1/1 | 1/1 | 2.8 | 4.11 |
| 1/1 | 1/1 | 7.85 | 7.39 |
| 1/1 | 1/1 | 2.48 | 4.15 |
| 0/1 | 1/1 | 3.27 | 5.46 |
| 1/1 | 0/1 | 3.17 | 2 |
| 1/1 | 1/1 | 8.36 | 7.2 |
| 1/1 | 1/1 | 5.08 | 6 |
| 1/1 | 1/1 | 2.83 | 3.94 |
| 1/1 | 1/1 | 4.5 | 5.85 |
| 1/1 | 1/1 | 5.19 | 4.68 |
| 1/1 | 1/1 | 5.79 | 5.32 |
| 1/1 | 1/1 | 3.94 | 5.81 |
| 1/1 | 1/1 | 6.8 | 3.96 |
| 1/1 | 1/1 | 5.37 | 4.87 |
| 1/1 | 1/1 | 6.2 | 5.76 |
| 1/1 | 1/1 | 8.6 | 8.19 |
| 1/1 | 1/1 | 9.27 | 8.86 |
| 0/1 | 1/1 | 5.99 | 5.59 |
| 1/1 | 1/1 | 4.62 | 4.27 |
| 1/1 | 1/1 | 5.55 | 5.28 |
| 1/1 | 1/1 | 8.3 | 8.05 |
| 1/1 | 1/1 | 7.14 | 6.98 |
| 1/1 | 1/1 | 3.6 | 3.48 |
| 1/1 | 1/1 | 5.58 | 5.6 |
| 1/1 | 1/1 | 4.77 | 4.81 |
| 1/1 | 1/1 | 12.51 | 12.62 |
| 1/1 | 1/1 | 12.87 | 13.01 |
| 1/1 | 1/1 | 9.91 | 10.09 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 3.86 | 4.09 |
| 0/1 | 1/1 | 6.03 | 6.28 |
| 1/1 | 1/1 | 6.66 | 7.01 |
| 0/1 | 1/1 | 4.32 | 5.64 |
| 1/1 | 1/1 | 5.81 | 5.08 |
| 1/1 | 0/1 | 6.53 | 5.81 |
| 0/1 | 1/1 | 5.49 | 5.06 |
| 1/1 | 1/1 | 6.5 | 6.09 |
| 1/1 | 1/1 | 7.31 | 8.97 |
| 0/1 | 1/1 | 5.58 | 7.28 |
| 1/1 | 1/1 | 5.6 | 7.65 |
| 1/1 | 1/1 | 5.45 | 7.54 |
| 0/1 | 1/1 | 3.54 | 7.05 |
| 1/1 | 0/1 | 4.48 | 2.91 |
| 1/1 | 1/1 | 6.35 | 7.54 |
| 1/1 | 0/1 | 5.92 | 5.17 |
| 0/1 | 1/1 | 5.73 | 7.23 |
| 1/1 | 1/1 | 6.42 | 7.95 |
| 0/1 | 1/1 | 4.45 | 6.12 |
| 0/1 | 1/1 | 4.89 | 7.06 |
| 0/1 | 1/1 | 5.3 | 7.5 |
| 1/1 | 1/1 | 6.19 | 5.37 |
| 1/1 | 1/1 | 3.82 | 5.06 |
| 0/1 | 1/1 | 4.64 | 5.93 |
| 0/1 | 1/1 | 2.4 | 4.1 |
| 1/1 | 1/1 | 3.63 | 5.84 |
| 1/1 | 0/1 | 6.19 | 5.61 |
| 1/1 | 1/1 | 5.97 | 5.41 |
| 0/1 | 1/1 | 6.56 | 6.02 |
| 1/1 | 1/1 | 7.78 | 6.83 |
| 1/1 | 1/1 | 7.1 | 8.2 |
| 1/1 | 1/1 | 4.04 | 5.45 |
| 1/1 | 1/1 | 7.98 | 6.97 |
| 1/1 | 1/1 | 5.45 | 6.52 |
| 1/1 | 1/1 | 6.89 | 4.41 |
| 1/1 | 1/1 | 5.61 | 5.37 |
| 1/1 | 1/1 | 8.81 | 8.59 |
| 1/1 | 0/1 | 7.14 | 5.74 |
| 0/1 | 1/1 | 3.1 | 3.79 |
| 0/1 | 1/1 | 2.72 | 3.46 |
| 0/1 | 1/1 | 4.05 | 5.06 |
| 1/1 | 0/1 | 3.69 | 2.68 |
| 1/1 | 1/1 | 8.3 | 7.32 |
| 1/1 | 1/1 | 3.51 | 4.7 |
| 0/1 | 1/1 | 2.53 | 4.1 |
| 1/1 | 0/1 | 3.96 | 2.46 |
| 0/1 | 1/1 | 2.51 | 3.46 |
| 0/1 | 1/1 | 4.4 | 5.41 |
| 1/1 | 1/1 | 6.76 | 4.4 |
| 1/1 | 1/1 | 6.69 | 4.34 |
| 1/1 | 0/1 | 4.41 | 4.11 |
| 1/1 | 1/1 | 5.45 | 5.2 |
| 1/1 | 1/1 | 3.94 | 4.07 |
| 1/1 | 1/1 | 5.23 | 5.69 |
| 1/1 | 1/1 | 2.98 | 3.45 |
| 1/1 | 1/1 | 4.42 | 3.74 |
| 1/1 | 1/1 | 4.29 | 6.25 |
| 1/1 | 1/1 | 3.91 | 3.11 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.96 | 4.28 |
| 1/1 | 1/1 | 5.91 | 7.3 |
| 1/1 | 1/1 | 3.19 | 5.15 |
| 1/1 | 1/1 | 10.15 | 9.82 |
| 1/1 | 1/1 | 3.43 | 5.69 |
| 1/1 | 1/1 | 3.27 | 5.94 |
| 1/1 | 1/1 | 5.45 | 4.61 |
| 1/1 | 1/1 | 5.06 | 6.31 |
| 1/1 | 1/1 | 4.99 | 6.3 |
| 1/1 | 1/1 | 6.07 | 4.17 |
| 0/1 | 1/1 | 4.48 | 4.76 |
| 0/1 | 1/1 | 2.51 | 2.95 |
| 0/1 | 1/1 | 2.01 | 2.55 |
| 0/1 | 1/1 | 4.31 | 5.35 |
| 1/1 | 1/1 | 6.95 | 4.62 |
| 1/1 | 1/1 | 10.22 | 10.2 |
| 1/1 | 1/1 | 7.46 | 7.53 |
| 1/1 | 1/1 | 10.87 | 10.95 |
| 1/1 | 1/1 | 3.13 | 3.98 |
| 0/1 | 1/1 | 7.77 | 7.33 |
| 0/1 | 1/1 | 1.79 | 4.32 |
| 1/1 | 1/1 | 4.69 | 3.67 |
| 1/1 | 1/1 | 6.36 | 7.46 |
| 0/1 | 1/1 | 3.13 | 4.46 |
| 0/1 | 1/1 | 3.27 | 4.64 |
| 0/1 | 1/1 | 4.5 | 6.13 |
| 1/1 | 1/1 | 7.53 | 6.59 |
| 1/1 | 1/1 | 5.8 | 6.98 |
| 0/1 | 1/1 | 4.7 | 6.1 |
| 1/1 | 1/1 | 5.76 | 3.62 |
| 0/1 | 1/1 | 5.72 | 5.86 |
| 0/1 | 1/1 | 2.86 | 3.66 |
| 1/1 | 1/1 | 5.33 | 4.81 |
| 0/1 | 1/1 | 3.01 | 5.09 |
| 1/1 | 1/1 | 6.36 | 5.69 |
| 0/1 | 1/1 | 4.86 | 6.38 |
| 1/1 | 0/1 | 8.77 | 8.34 |
| 1/1 | 1/1 | 5.68 | 7.44 |
| 1/1 | 1/1 | 6.24 | 4.83 |
| 0/1 | 1/1 | 2.88 | 3.54 |
| 1/1 | 1/1 | 4.76 | 5.51 |
| 1/1 | 1/1 | 5.16 | 5.92 |
| 0/1 | 1/1 | 4.66 | 5.59 |
| 1/1 | 1/1 | 5.53 | 5.12 |
| 1/1 | 1/1 | 8.5 | 8.12 |
| 1/1 | 1/1 | 5.29 | 7.23 |
| 1/1 | 1/1 | 4.45 | 6.43 |
| 1/1 | 1/1 | 5.97 | 5.56 |
| 1/1 | 1/1 | 5.65 | 7.29 |
| 0/1 | 1/1 | 4.22 | 5.9 |
| 1/1 | 1/1 | 6.73 | 8.5 |
| 1/1 | 1/1 | 4.17 | 6.18 |
| 1/1 | 1/1 | 4.34 | 3.74 |
| 0/1 | 1/1 | 4.2 | 5.68 |
| 1/1 | 1/1 | 4.36 | 5.93 |
| 0/1 | 1/1 | 3.39 | 5.06 |
| 1/1 | 1/1 | 4.88 | 3.62 |
| 1/1 | 1/1 | 4.38 | 5.48 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 7.83 | 6.84 |
| 0/1 | 1/1 | 2.54 | 3.59 |
| 1/1 | 1/1 | 6.86 | 6.09 |
| 1/1 | 1/1 | 4.53 | 5.99 |
| 1/1 | 1/1 | 8.45 | 7.76 |
| 0/1 | 1/1 | 3.96 | 5.46 |
| 1/1 | 1/1 | 8.66 | 7.06 |
| 0/1 | 1/1 | 3.8 | 5.57 |
| 1/1 | 1/1 | 6.68 | 5.17 |
| 1/1 | 1/1 | 7.33 | 5.83 |
| 0/1 | 1/1 | 2.66 | 3.41 |
| 0/1 | 1/1 | 2.92 | 4.02 |
| 1/1 | 1/1 | 7.3 | 6.66 |
| 1/1 | 1/1 | 6.94 | 6.32 |
| 0/1 | 1/1 | 4.14 | 3.39 |
| 1/1 | 1/1 | 3.59 | 5.64 |
| 1/1 | 1/1 | 7.3 | 6.24 |
| 1/1 | 1/1 | 4.42 | 3.36 |
| 1/1 | 1/1 | 5.64 | 6.66 |
| 1/1 | 1/1 | 6.12 | 7.62 |
| 1/1 | 1/1 | 5 | 6.86 |
| 1/1 | 1/1 | 5.52 | 5.01 |
| 0/1 | 1/1 | 3.03 | 5.35 |
| 1/1 | 1/1 | 7.46 | 6.29 |
| 0/1 | 1/1 | 3.1 | 4.19 |
| 0/1 | 1/1 | 2.48 | 3.75 |
| 0/1 | 1/1 | 2.91 | 4.28 |
| 1/1 | 0/1 | 2.69 | 1.69 |
| 1/1 | 1/1 | 7.33 | 6.36 |
| 0/1 | 1/1 | 3 | 4.07 |
| 1/1 | 1/1 | 4.17 | 5.28 |
| 1/1 | 1/1 | 2.57 | 4.5 |
| 1/1 | 1/1 | 4.87 | 3.77 |
| 0/1 | 1/1 | 3.24 | 4.23 |
| 1/1 | 1/1 | 5.62 | 6.66 |
| 0/1 | 1/1 | 2.84 | 4.12 |
| 1/1 | 1/1 | 3.95 | 3.1 |
| 0/1 | 1/1 | 3.1 | 4.76 |
| 1/1 | 1/1 | 4.29 | 5.96 |
| 1/1 | 0/1 | 5.69 | 4.39 |
| 1/1 | 1/1 | 4.57 | 5.34 |
| 0/1 | 1/1 | 1.91 | 3.17 |
| 1/1 | 1/1 | 8.72 | 6.3 |
| 1/1 | 1/1 | 10.32 | 9.95 |
| 1/1 | 1/1 | 9.75 | 9.43 |
| 1/1 | 1/1 | 4.4 | 4.18 |
| 1/1 | 1/1 | 5.22 | 5.07 |
| 0/1 | 1/1 | 8.56 | 8.42 |
| 1/1 | 1/1 | 8.12 | 8.01 |
| 1/1 | 1/1 | 7.78 | 7.75 |
| 0/1 | 1/1 | 7.24 | 7.36 |
| 0/1 | 1/1 | 7.09 | 7.24 |
| 1/1 | 1/1 | 8.49 | 8.65 |
| 0/1 | 1/1 | 3.23 | 5.01 |
| 1/1 | 1/1 | 5.94 | 4.79 |
| 1/1 | 1/1 | 4.89 | 5.96 |
| 1/1 | 0/1 | 5.21 | 3.96 |
| 1/1 | 1/1 | 6.5 | 7.61 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.86 | 9.4 |
| 1/1 | 1/1 | 3.92 | 5.55 |
| 1/1 | 0/1 | 5.05 | 3.81 |
| 1/1 | 1/1 | 8.9 | 7.68 |
| 0/1 | 1/1 | 4.23 | 5.03 |
| 1/1 | 1/1 | 6.61 | 4.64 |
| 1/1 | 1/1 | 13.09 | 13.15 |
| 0/1 | 1/1 | 4.91 | 5.49 |
| 1/1 | 1/1 | 5.81 | 4.41 |
| 1/1 | 1/1 | 3.43 | 4.29 |
| 0/1 | 1/1 | 3.21 | 5.12 |
| 1/1 | 0/1 | 6.26 | 5.28 |
| 1/1 | 1/1 | 7.51 | 6.52 |
| 0/1 | 1/1 | 5.75 | 5.16 |
| 1/1 | 1/1 | 3.7 | 5.39 |
| 1/1 | 1/1 | 5.44 | 3.16 |
| 1/1 | 1/1 | 3.64 | 3.39 |
| 1/1 | 1/1 | 4.19 | 3.98 |
| 1/1 | 1/1 | 5.46 | 5.33 |
| 0/1 | 1/1 | 2.63 | 2.52 |
| 1/1 | 1/1 | 7.39 | 7.28 |
| 1/1 | 1/1 | 3.58 | 3.49 |
| 1/1 | 1/1 | 11.22 | 11.17 |
| 0/1 | 1/1 | 2.59 | 2.56 |
| 0/1 | 1/1 | 3 | 2.97 |
| 1/1 | 1/1 | 4.47 | 4.55 |
| 0/1 | 1/1 | 4.84 | 5.07 |
| 0/1 | 1/1 | 2.68 | 2.93 |
| 0/1 | 1/1 | 2.17 | 2.45 |
| 0/1 | 1/1 | 3.89 | 4.23 |
| 1/1 | 1/1 | 2.98 | 3.4 |
| 0/1 | 1/1 | 2.51 | 2.94 |
| 0/1 | 1/1 | 4.15 | 4.72 |
| 0/1 | 1/1 | 3.67 | 4.29 |
| 0/1 | 1/1 | 5.12 | 5.78 |
| 0/1 | 1/1 | 2.69 | 3.4 |
| 0/1 | 1/1 | 2.49 | 3.29 |
| 0/1 | 1/1 | 3.37 | 4.55 |
| 1/1 | 1/1 | 3.72 | 2.9 |
| 0/1 | 1/1 | 2.66 | 4.28 |
| 1/1 | 1/1 | 4.91 | 4.53 |
| 0/1 | 1/1 | 2.84 | 4.91 |
| 1/1 | 1/1 | 5.63 | 4.04 |
| 0/1 | 1/1 | 3.12 | 3.56 |
| 1/1 | 1/1 | 6.74 | 7.32 |
| 0/1 | 1/1 | 5.61 | 6.23 |
| 0/1 | 1/1 | 3.15 | 4.07 |
| 1/1 | 1/1 | 5.4 | 4.58 |
| 1/1 | 1/1 | 6.25 | 5.44 |
| 1/1 | 0/1 | 3.83 | 2.58 |
| 0/1 | 1/1 | 3.27 | 4.05 |
| 1/1 | 1/1 | 4.94 | 4.05 |
| 0/1 | 1/1 | 3.46 | 4.64 |
| 0/1 | 1/1 | 2.99 | 4.37 |
| 0/1 | 1/1 | 3.7 | 5.09 |
| 1/1 | 1/1 | 7.52 | 5.63 |
| 0/1 | 1/1 | 2.35 | 2.61 |
| 0/1 | 1/1 | 2.79 | 3.06 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.25 | 4.59 |
| 1/1 | 1/1 | 10.47 | 9.83 |
| 0/1 | 1/1 | 3.07 | 4.94 |
| 1/1 | 1/1 | 3.95 | 3.42 |
| 1/1 | 1/1 | 3.52 | 5.01 |
| 1/1 | 1/1 | 4.91 | 3.75 |
| 0/1 | 1/1 | 3.38 | 4.25 |
| 1/1 | 1/1 | 10.73 | 10.09 |
| 0/1 | 1/1 | 4.55 | 6.26 |
| 1/1 | 0/1 | 3.58 | 2.64 |
| 1/1 | 1/1 | 6.56 | 7.87 |
| 1/1 | 1/1 | 5.81 | 7.27 |
| 0/1 | 1/1 | 3.38 | 5.23 |
| 0/1 | 1/1 | 3.94 | 5.83 |
| 0/1 | 1/1 | 3.75 | 5.71 |
| 1/1 | 1/1 | 6.23 | 5.36 |
| 0/1 | 1/1 | 2.78 | 4.22 |
| 1/1 | 1/1 | 11.33 | 10.38 |
| 1/1 | 1/1 | 11.33 | 10.38 |
| 1/1 | 1/1 | 5.48 | 6.74 |
| 1/1 | 1/1 | 6.58 | 7.88 |
| 0/1 | 1/1 | 3.32 | 4.62 |
| 1/1 | 1/1 | 6.62 | 8.14 |
| 0/1 | 1/1 | 3.2 | 4.79 |
| 1/1 | 1/1 | 4.57 | 3.64 |
| 1/1 | 1/1 | 3.45 | 4.55 |
| 1/1 | 1/1 | 6.15 | 7.25 |
| 1/1 | 1/1 | 4.51 | 5.64 |
| 0/1 | 1/1 | 2.64 | 4.21 |
| 0/1 | 1/1 | 3.36 | 5.09 |
| 1/1 | 1/1 | 5.5 | 3.31 |
| 0/1 | 1/1 | 8.01 | 8.07 |
| 1/1 | 1/1 | 6.12 | 5.73 |
| 1/1 | 1/1 | 3.7 | 5.34 |
| 1/1 | 1/1 | 4.11 | 5.79 |
| 0/1 | 1/1 | 3.42 | 5.35 |
| 1/1 | 1/1 | 3.55 | 5.62 |
| 1/1 | 1/1 | 4.89 | 7 |
| 1/1 | 1/1 | 3.46 | 5.62 |
| 1/1 | 1/1 | 3.59 | 5.78 |
| 0/1 | 1/1 | 2.03 | 4.28 |
| 1/1 | 0/1 | 4.36 | 3.48 |
| 1/1 | 1/1 | 5.38 | 6.55 |
| 1/1 | 1/1 | 6.1 | 5.2 |
| 0/1 | 1/1 | 5.36 | 6.7 |
| 1/1 | 1/1 | 5.52 | 4.85 |
| 1/1 | 0/1 | 5.8 | 5.14 |
| 0/1 | 1/1 | 4.13 | 5.74 |
| 0/1 | 1/1 | 3.12 | 4.96 |
| 1/1 | 1/1 | 3.46 | 3.44 |
| 1/1 | 1/1 | 4.23 | 7.01 |
| 1/1 | 1/1 | 4.94 | 4.05 |
| 0/1 | 1/1 | 3.46 | 4.64 |
| 0/1 | 1/1 | 2.99 | 4.37 |
| 0/1 | 1/1 | 3.7 | 5.09 |
| 1/1 | 1/1 | 4.13 | 3.34 |
| 1/1 | 1/1 | 7.72 | 9.08 |
| 1/1 | 1/1 | 7.14 | 8.58 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 4.89 | 4.07 |
| 1/1 | 1/1 | 4.04 | 3.24 |
| 1/1 | 1/1 | 4.94 | 6.2 |
| 1/1 | 1/1 | 7.56 | 7.16 |
| 1/1 | 1/1 | 8.33 | 7.93 |
| 1/1 | 1/1 | 6.89 | 6.5 |
| 1/1 | 1/1 | 6.12 | 5.17 |
| 1/1 | 1/1 | 3.67 | 4.8 |
| 0/1 | 1/1 | 1.94 | 3.48 |
| 1/1 | 1/1 | 5.02 | 3.93 |
| 0/1 | 1/1 | 2.36 | 3.29 |
| 1/1 | 1/1 | 3.69 | 4.64 |
| 1/1 | 1/1 | 8.25 | 9.2 |
| 1/1 | 1/1 | 7.79 | 8.74 |
| 0/1 | 1/1 | 3.28 | 4.26 |
| 1/1 | 1/1 | 4.79 | 5.82 |
| 1/1 | 1/1 | 5.14 | 6.9 |
| 1/1 | 1/1 | 9.7 | 9.03 |
| 1/1 | 1/1 | 4.48 | 5.87 |
| 0/1 | 1/1 | 4.07 | 5.5 |
| 1/1 | 0/1 | 4.65 | 3.58 |
| 1/1 | 1/1 | 5.14 | 6.17 |
| 1/1 | 1/1 | 5.08 | 7.11 |
| 1/1 | 1/1 | 6.18 | 4.72 |
| 1/1 | 1/1 | 3.17 | 3.9 |
| 1/1 | 0/1 | 4.73 | 2.17 |
| 1/1 | 1/1 | 3.13 | 2.59 |
| 1/1 | 0/1 | 2.84 | 2.34 |
| 1/1 | 1/1 | 7.32 | 7 |
| 1/1 | 1/1 | 2.66 | 2.82 |
| 0/1 | 1/1 | 3.1 | 3.32 |
| 1/1 | 1/1 | 8.37 | 5.95 |
| 1/1 | 1/1 | 9.05 | 8.67 |
| 1/1 | 1/1 | 7.28 | 6.93 |
| 1/1 | 1/1 | 8.77 | 8.49 |
| 1/1 | 1/1 | 6.36 | 6.12 |
| 1/1 | 1/1 | 6.39 | 6.17 |
| 1/1 | 1/1 | 7.57 | 7.45 |
| 1/1 | 1/1 | 6.55 | 6.47 |
| 1/1 | 1/1 | 9.81 | 9.77 |
| 0/1 | 1/1 | 7.24 | 7.23 |
| 1/1 | 1/1 | 7 | 7.06 |
| 1/1 | 1/1 | 5.25 | 5.41 |
| 1/1 | 0/1 | 4.16 | 2.4 |
| 1/1 | 1/1 | 2.86 | 3.18 |
| 0/1 | 1/1 | 2.25 | 2.59 |
| 0/1 | 1/1 | 2 | 2.57 |
| 1/1 | 1/1 | 8.06 | 7.41 |
| 1/1 | 1/1 | 6.63 | 8.23 |
| 1/1 | 1/1 | 6.16 | 7.91 |
| 1/1 | 1/1 | 3.79 | 5.79 |
| 1/1 | 1/1 | 9.44 | 8.31 |
| 1/1 | 1/1 | 4.52 | 5.83 |
| 1/1 | 1/1 | 6.52 | 4.98 |
| 0/1 | 1/1 | 3.09 | 3.67 |
| 1/1 | 0/1 | 5.51 | 4.32 |
| 1/1 | 1/1 | 5.83 | 6.65 |
| 1/1 | 1/1 | 7.09 | 8.04 |

| | | | |
|-----|-----|------|-------|
| 0/1 | 1/1 | 3.47 | 4.57 |
| 0/1 | 1/1 | 3.45 | 4.65 |
| 1/1 | 1/1 | 9.82 | 9.11 |
| 0/1 | 1/1 | 2.33 | 3.65 |
| 0/1 | 1/1 | 4.82 | 6.29 |
| 1/1 | 1/1 | 4.47 | 3.7 |
| 1/1 | 1/1 | 3.04 | 4.68 |
| 0/1 | 1/1 | 2.73 | 4.85 |
| 1/1 | 1/1 | 6.69 | 5.77 |
| 0/1 | 1/1 | 3.43 | 4.72 |
| 1/1 | 1/1 | 9.85 | 7.71 |
| 1/1 | 1/1 | 2.58 | 2.6 |
| 0/1 | 1/1 | 4.47 | 5.1 |
| 1/1 | 1/1 | 6.97 | 6.11 |
| 1/1 | 1/1 | 5.02 | 6.68 |
| 1/1 | 1/1 | 8.19 | 7.94 |
| 1/1 | 1/1 | 4.34 | 6.2 |
| 1/1 | 1/1 | 6.53 | 5.89 |
| 0/1 | 1/1 | 3.48 | 5.02 |
| 0/1 | 1/1 | 2.78 | 5.32 |
| 1/1 | 1/1 | 8.24 | 6.91 |
| 1/1 | 1/1 | 4.8 | 5.54 |
| 1/1 | 1/1 | 3.02 | 3.96 |
| 0/1 | 1/1 | 2.09 | 3.22 |
| 0/1 | 1/1 | 3.2 | 5.21 |
| 1/1 | 1/1 | 7.6 | 7.62 |
| 1/1 | 1/1 | 8.17 | 10.37 |
| 1/1 | 0/1 | 3.53 | 2.38 |
| 0/1 | 1/1 | 2.87 | 3.74 |
| 0/1 | 1/1 | 2.03 | 2.98 |
| 1/1 | 0/1 | 3.23 | 2 |
| 1/1 | 1/1 | 4.34 | 5.18 |
| 1/1 | 1/1 | 3.37 | 4.38 |
| 1/1 | 1/1 | 4.3 | 5.67 |
| 1/1 | 1/1 | 7.9 | 6.94 |
| 1/1 | 1/1 | 7.05 | 8.34 |
| 1/1 | 1/1 | 3.66 | 5.49 |
| 1/1 | 1/1 | 3.22 | 2.79 |
| 0/1 | 1/1 | 3.78 | 6.05 |
| 1/1 | 0/1 | 4.07 | 2.93 |
| 0/1 | 1/1 | 2.58 | 3.83 |
| 1/1 | 0/1 | 4.67 | 3.37 |
| 1/1 | 1/1 | 4.58 | 5.3 |
| 1/1 | 1/1 | 3.1 | 3.9 |
| 1/1 | 1/1 | 3.62 | 4.6 |
| 1/1 | 0/1 | 3.72 | 2 |
| 0/1 | 1/1 | 3.45 | 3.75 |
| 1/1 | 1/1 | 7.9 | 8.2 |
| 1/1 | 1/1 | 3.12 | 3.5 |
| 1/1 | 1/1 | 7.17 | 7.61 |
| 0/1 | 1/1 | 1.94 | 2.43 |
| 0/1 | 1/1 | 3.47 | 4.05 |
| 1/1 | 1/1 | 5.28 | 6.04 |
| 1/1 | 1/1 | 5.78 | 4.67 |
| 1/1 | 1/1 | 3.59 | 4.48 |
| 1/1 | 1/1 | 5.18 | 6.11 |
| 1/1 | 1/1 | 5.33 | 6.44 |
| 1/1 | 1/1 | 3.36 | 5.37 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 7.08 | 4.45 |
| 1/1 | 1/1 | 6.16 | 5.62 |
| 1/1 | 1/1 | 6.61 | 6.13 |
| 1/1 | 1/1 | 5.99 | 5.56 |
| 1/1 | 1/1 | 4.8 | 4.48 |
| 1/1 | 1/1 | 7.61 | 7.38 |
| 0/1 | 1/1 | 3.61 | 3.56 |
| 1/1 | 1/1 | 5.64 | 5.66 |
| 0/1 | 1/1 | 6.49 | 7.1 |
| 0/1 | 1/1 | 3.43 | 4.42 |
| 1/1 | 0/1 | 4.68 | 2.77 |
| 1/1 | 1/1 | 6.41 | 6.53 |
| 1/1 | 1/1 | 3.42 | 3.64 |
| 1/1 | 1/1 | 6.06 | 6.33 |
| 1/1 | 1/1 | 4.04 | 3.01 |
| 1/1 | 1/1 | 3.79 | 4.81 |
| 0/1 | 1/1 | 2.36 | 3.57 |
| 1/1 | 1/1 | 3.86 | 5.34 |
| 1/1 | 1/1 | 3.52 | 5.24 |
| 1/1 | 0/1 | 3.09 | 2.35 |
| 0/1 | 1/1 | 2.11 | 3.4 |
| 1/1 | 1/1 | 5.09 | 3.81 |
| 0/1 | 1/1 | 2.98 | 4.66 |
| 1/1 | 1/1 | 6.35 | 4.65 |
| 1/1 | 1/1 | 3.39 | 4.04 |
| 1/1 | 1/1 | 4.37 | 3.52 |
| 1/1 | 1/1 | 6.87 | 8.36 |
| 0/1 | 1/1 | 7.12 | 8.94 |
| 0/1 | 1/1 | 4.53 | 6.66 |
| 1/1 | 1/1 | 6.06 | 8.33 |
| 1/1 | 1/1 | 7.43 | 7.02 |
| 1/1 | 1/1 | 6.62 | 8.43 |
| 1/1 | 1/1 | 3.27 | 2.71 |
| 0/1 | 1/1 | 3.98 | 5.44 |
| 1/1 | 1/1 | 6.32 | 7.91 |
| 0/1 | 1/1 | 2.56 | 4.45 |
| 1/1 | 1/1 | 4.85 | 6.89 |
| 1/1 | 1/1 | 6.7 | 5.49 |
| 1/1 | 1/1 | 4.6 | 5.52 |
| 1/1 | 1/1 | 5.61 | 4.62 |
| 1/1 | 1/1 | 3.59 | 5.84 |
| 1/1 | 1/1 | 7.35 | 6.04 |
| 1/1 | 1/1 | 5.32 | 6.25 |
| 1/1 | 1/1 | 9.67 | 9.43 |
| 1/1 | 1/1 | 5.67 | 7.45 |
| 1/1 | 1/1 | 5.39 | 7.47 |
| 1/1 | 1/1 | 5.15 | 7.36 |
| 1/1 | 1/1 | 3.89 | 2.84 |
| 1/1 | 1/1 | 6.39 | 7.36 |
| 1/1 | 1/1 | 3.72 | 4.79 |
| 1/1 | 1/1 | 2.81 | 3.9 |
| 1/1 | 1/1 | 5.28 | 3.77 |
| 1/1 | 1/1 | 3.65 | 4.17 |
| 1/1 | 1/1 | 6.6 | 4.89 |
| 1/1 | 1/1 | 7.1 | 7.43 |
| 0/1 | 1/1 | 4.4 | 4.75 |
| 1/1 | 1/1 | 6.73 | 7.08 |
| 0/1 | 1/1 | 1.89 | 2.28 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 3.29 | 3.95 |
| 1/1 | 1/1 | 6.44 | 7.16 |
| 0/1 | 1/1 | 4.84 | 5.66 |
| 1/1 | 1/1 | 3.22 | 4.22 |
| 1/1 | 1/1 | 4.36 | 5.68 |
| 1/1 | 1/1 | 5.83 | 4.29 |
| 1/1 | 1/1 | 3.01 | 3.52 |
| 1/1 | 1/1 | 5.52 | 6.22 |
| 1/1 | 1/1 | 10.25 | 9.38 |
| 1/1 | 1/1 | 6.04 | 7.22 |
| 0/1 | 1/1 | 3.81 | 5.18 |
| 1/1 | 1/1 | 6.98 | 8.42 |
| 0/1 | 1/1 | 4.12 | 5.99 |
| 0/1 | 1/1 | 2.85 | 4.74 |
| 1/1 | 0/1 | 4.08 | 2.51 |
| 1/1 | 1/1 | 4.28 | 4.76 |
| 0/1 | 1/1 | 2.33 | 2.81 |
| 1/1 | 1/1 | 7.61 | 6.89 |
| 1/1 | 1/1 | 4.91 | 6.24 |
| 0/1 | 1/1 | 4.91 | 6.53 |
| 1/1 | 1/1 | 5.6 | 5.22 |
| 1/1 | 1/1 | 5.21 | 6.89 |
| 1/1 | 1/1 | 10.67 | 6.16 |
| 1/1 | 1/1 | 9.17 | 6.76 |
| 1/1 | 1/1 | 8.3 | 6.27 |
| 1/1 | 1/1 | 4.6 | 2.66 |
| 1/1 | 0/1 | 3.29 | 2.57 |
| 1/1 | 1/1 | 5.94 | 5.31 |
| 0/1 | 1/1 | 3.27 | 3.02 |
| 1/1 | 1/1 | 2.44 | 2.65 |
| 1/1 | 1/1 | 6.55 | 5.75 |
| 1/1 | 1/1 | 6.17 | 7.48 |
| 1/1 | 1/1 | 3.63 | 5.43 |
| 1/1 | 1/1 | 7.33 | 6.06 |
| 1/1 | 0/1 | 3.86 | 2.58 |
| 1/1 | 1/1 | 3.48 | 4.33 |
| 1/1 | 1/1 | 4.34 | 5.2 |
| 1/1 | 1/1 | 4.02 | 4.93 |
| 1/1 | 0/1 | 4.12 | 2.44 |
| 0/1 | 1/1 | 3.15 | 3.71 |
| 1/1 | 1/1 | 4.95 | 6.04 |
| 1/1 | 1/1 | 8.17 | 6.41 |
| 1/1 | 1/1 | 4.67 | 5.17 |
| 1/1 | 1/1 | 8 | 7.4 |
| 1/1 | 1/1 | 2.95 | 5.3 |
| 1/1 | 0/1 | 7.6 | 3.4 |
| 1/1 | 1/1 | 5.83 | 5.43 |
| 1/1 | 1/1 | 6.62 | 5.87 |
| 1/1 | 1/1 | 3.36 | 5.38 |
| 1/1 | 1/1 | 7.31 | 6.55 |
| 1/1 | 1/1 | 3.34 | 4.85 |
| 1/1 | 1/1 | 4.93 | 6.65 |
| 1/1 | 1/1 | 4.98 | 4.39 |
| 0/1 | 1/1 | 3.23 | 4.92 |
| 0/1 | 1/1 | 1.98 | 5.62 |
| 1/1 | 1/1 | 4.68 | 3.92 |
| 0/1 | 1/1 | 2.65 | 4.58 |
| 1/1 | 1/1 | 9.12 | 8.24 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.12 | 5.57 |
| 1/1 | 1/1 | 3.46 | 3.44 |
| 1/1 | 1/1 | 4.23 | 7.01 |
| 1/1 | 1/1 | 3.46 | 3.44 |
| 1/1 | 1/1 | 4.23 | 7.01 |
| 1/1 | 1/1 | 7.99 | 8.26 |
| 1/1 | 1/1 | 7.42 | 7.69 |
| 1/1 | 1/1 | 6.77 | 7.09 |
| 1/1 | 1/1 | 6.93 | 7.26 |
| 1/1 | 1/1 | 5.6 | 5.96 |
| 1/1 | 1/1 | 6.48 | 6.87 |
| 0/1 | 1/1 | 3.84 | 4.3 |
| 1/1 | 1/1 | 7.03 | 7.51 |
| 1/1 | 1/1 | 7.78 | 8.36 |
| 1/1 | 1/1 | 4.35 | 5 |
| 1/1 | 1/1 | 5.66 | 6.35 |
| 0/1 | 1/1 | 4.7 | 5.46 |
| 1/1 | 1/1 | 6.18 | 6.45 |
| 1/1 | 1/1 | 4.08 | 4.35 |
| 0/1 | 1/1 | 2.96 | 3.33 |
| 1/1 | 1/1 | 2.62 | 3 |
| 1/1 | 1/1 | 8.36 | 8.76 |
| 1/1 | 1/1 | 6.97 | 7.56 |
| 0/1 | 1/1 | 2.69 | 3.34 |
| 1/1 | 1/1 | 7.03 | 7.7 |
| 1/1 | 1/1 | 5.19 | 6.01 |
| 1/1 | 1/1 | 4.47 | 5.61 |
| 1/1 | 1/1 | 4.22 | 5.67 |
| 1/1 | 1/1 | 6.82 | 6.85 |
| 1/1 | 1/1 | 5.36 | 5.41 |
| 1/1 | 1/1 | 6.06 | 6.17 |
| 0/1 | 1/1 | 3.08 | 3.2 |
| 1/1 | 1/1 | 5.86 | 6.08 |
| 1/1 | 1/1 | 7.19 | 7.56 |
| 1/1 | 1/1 | 8.78 | 10.27 |
| 0/1 | 1/1 | 2.99 | 4.49 |
| 1/1 | 1/1 | 8.36 | 10.1 |
| 1/1 | 1/1 | 4.79 | 6.6 |
| 1/1 | 1/1 | 6.18 | 8.06 |
| 1/1 | 1/1 | 6.75 | 9.06 |
| 1/1 | 1/1 | 6.74 | 9.25 |
| 1/1 | 1/1 | 7.78 | 7.59 |
| 1/1 | 1/1 | 8.93 | 8.75 |
| 1/1 | 1/1 | 7.28 | 7.14 |
| 1/1 | 1/1 | 12.02 | 11.9 |
| 1/1 | 1/1 | 6.14 | 6.02 |
| 1/1 | 1/1 | 6.53 | 6.43 |
| 1/1 | 1/1 | 2.33 | 2.25 |
| 1/1 | 1/1 | 6.89 | 6.83 |
| 0/1 | 1/1 | 5.52 | 5.48 |
| 0/1 | 1/1 | 6.83 | 6.91 |
| 1/1 | 1/1 | 6.39 | 6.52 |
| 0/1 | 1/1 | 3.7 | 3.86 |
| 0/1 | 1/1 | 2.35 | 2.57 |
| 1/1 | 1/1 | 6.34 | 6.75 |
| 0/1 | 1/1 | 2.96 | 3.42 |
| 1/1 | 1/1 | 6.03 | 7.04 |
| 1/1 | 1/1 | 3.95 | 4.97 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.49 | 8.58 |
| 1/1 | 1/1 | 4.14 | 5.27 |
| 1/1 | 1/1 | 6.43 | 7.63 |
| 1/1 | 1/1 | 5.25 | 6.57 |
| 1/1 | 1/1 | 9.95 | 10 |
| 1/1 | 1/1 | 5.31 | 5.38 |
| 1/1 | 1/1 | 4.1 | 4.37 |
| 1/1 | 1/1 | 13.09 | 13.1 |
| 1/1 | 1/1 | 3.39 | 3.41 |
| 1/1 | 1/1 | 12.34 | 12.37 |
| 1/1 | 1/1 | 10.1 | 10.17 |
| 1/1 | 1/1 | 12.1 | 12.19 |
| 0/1 | 1/1 | 2.44 | 2.56 |
| 1/1 | 1/1 | 11.22 | 11.35 |
| 1/1 | 1/1 | 6.59 | 6.73 |
| 0/1 | 1/1 | 3.38 | 3.57 |
| 1/1 | 1/1 | 5.47 | 5.69 |
| 0/1 | 1/1 | 2.75 | 3.03 |
| 1/1 | 1/1 | 3.01 | 3.36 |
| 1/1 | 1/1 | 3.9 | 4.4 |
| 1/1 | 1/1 | 6.78 | 7.29 |
| 0/1 | 1/1 | 3.41 | 4.22 |
| 1/1 | 1/1 | 3 | 3.86 |
| 1/1 | 1/1 | 10.52 | 10.55 |
| 1/1 | 1/1 | 9.94 | 9.99 |
| 1/1 | 1/1 | 9.59 | 9.68 |
| 1/1 | 1/1 | 6.88 | 7.86 |
| 1/1 | 1/1 | 6.15 | 7.14 |
| 0/1 | 1/1 | 3.57 | 4.85 |
| 1/1 | 1/1 | 5.37 | 7.12 |
| 1/1 | 1/1 | 5.37 | 8.6 |
| 1/1 | 1/1 | 3.96 | 5.14 |
| 1/1 | 1/1 | 4.69 | 5.89 |
| 1/1 | 1/1 | 5.99 | 7.21 |
| 1/1 | 1/1 | 4.91 | 6.23 |
| 1/1 | 1/1 | 5.5 | 6.88 |
| 1/1 | 1/1 | 2.35 | 4 |
| 0/1 | 1/1 | 2.52 | 4.78 |
| 0/1 | 1/1 | 3.41 | 3.57 |
| 1/1 | 1/1 | 8.04 | 8.22 |
| 1/1 | 1/1 | 11.27 | 11.46 |
| 1/1 | 1/1 | 2.37 | 2.64 |
| 0/1 | 1/1 | 3.79 | 4.22 |
| 1/1 | 1/1 | 7.35 | 7.88 |
| 0/1 | 1/1 | 5.23 | 5.97 |
| 1/1 | 1/1 | 6.89 | 7.89 |
| 1/1 | 1/1 | 5.97 | 6.16 |
| 1/1 | 1/1 | 4.08 | 4.29 |
| 0/1 | 1/1 | 2.96 | 3.18 |
| 1/1 | 1/1 | 4.88 | 5.32 |
| 0/1 | 1/1 | 3.62 | 4.27 |
| 0/1 | 1/1 | 4.15 | 5.04 |
| 0/1 | 1/1 | 6.35 | 6.84 |
| 0/1 | 1/1 | 6.26 | 6.78 |
| 0/1 | 1/1 | 2.83 | 3.81 |
| 1/1 | 1/1 | 5.34 | 6.35 |
| 1/1 | 1/1 | 7.53 | 7.52 |
| 0/1 | 1/1 | 4.26 | 4.28 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 6.91 | 7.16 |
| 1/1 | 1/1 | 4.86 | 5.8 |
| 1/1 | 1/1 | 4.53 | 5.51 |
| 1/1 | 1/1 | 4.47 | 5.78 |
| 1/1 | 1/1 | 2.86 | 4.45 |
| 0/1 | 1/1 | 3.47 | 5.07 |
| 0/1 | 1/1 | 4.35 | 6.2 |
| 1/1 | 1/1 | 4.88 | 6.04 |
| 1/1 | 1/1 | 3.24 | 4.43 |
| 0/1 | 1/1 | 2.93 | 4.15 |
| 1/1 | 1/1 | 5.47 | 6.73 |
| 1/1 | 1/1 | 3.72 | 5 |
| 1/1 | 1/1 | 5.71 | 4.87 |
| 1/1 | 1/1 | 5.65 | 4.86 |
| 1/1 | 1/1 | 5.88 | 5.22 |
| 1/1 | 1/1 | 7.94 | 7.31 |
| 1/1 | 1/1 | 5.48 | 4.91 |
| 1/1 | 1/1 | 9.11 | 8.6 |
| 1/1 | 1/1 | 6.12 | 5.61 |
| 1/1 | 1/1 | 3.81 | 3.38 |
| 1/1 | 1/1 | 8.84 | 8.51 |
| 1/1 | 1/1 | 5.13 | 4.9 |
| 1/1 | 1/1 | 4.81 | 4.62 |
| 1/1 | 1/1 | 6.77 | 6.62 |
| 1/1 | 1/1 | 5.07 | 4.97 |
| 0/1 | 1/1 | 6.94 | 6.9 |
| 1/1 | 1/1 | 5.56 | 5.65 |
| 1/1 | 1/1 | 4.38 | 4.86 |
| 0/1 | 1/1 | 3.53 | 3.93 |
| 0/1 | 1/1 | 1.94 | 2.39 |
| 1/1 | 1/1 | 8.78 | 9.41 |
| 0/1 | 1/1 | 4.57 | 5.22 |
| 1/1 | 1/1 | 8.43 | 9.32 |
| 0/1 | 1/1 | 2.15 | 2.39 |
| 1/1 | 1/1 | 6.11 | 6.41 |
| 0/1 | 1/1 | 3.14 | 3.45 |
| 1/1 | 1/1 | 3.72 | 4.15 |
| 0/1 | 1/1 | 4.29 | 5.03 |
| 0/1 | 1/1 | 4.12 | 3.51 |
| 1/1 | 1/1 | 7.3 | 6.74 |
| 1/1 | 1/1 | 5.51 | 4.96 |
| 1/1 | 1/1 | 3.96 | 3.59 |
| 1/1 | 1/1 | 6.53 | 6.16 |
| 1/1 | 1/1 | 5.62 | 5.32 |
| 1/1 | 1/1 | 8.16 | 7.92 |
| 0/1 | 1/1 | 6.03 | 5.92 |
| 1/1 | 1/1 | 7.22 | 7.13 |
| 0/1 | 1/1 | 5.34 | 5.51 |
| 1/1 | 1/1 | 5.09 | 5.42 |
| 1/1 | 1/1 | 5.71 | 5.46 |
| 0/1 | 1/1 | 5.31 | 5.13 |
| 1/1 | 1/1 | 7.38 | 7.22 |
| 1/1 | 1/1 | 2.26 | 2.53 |
| 1/1 | 1/1 | 3.06 | 3.54 |
| 1/1 | 1/1 | 5.51 | 6.23 |
| 1/1 | 1/1 | 4.92 | 5.71 |
| 0/1 | 1/1 | 3.15 | 3.95 |
| 0/1 | 1/1 | 3.11 | 3.92 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.9 | 7.7 |
| 1/1 | 1/1 | 5.35 | 6.23 |
| 1/1 | 1/1 | 8.09 | 9 |
| 1/1 | 1/1 | 6.49 | 7.41 |
| 1/1 | 1/1 | 9.43 | 10.39 |
| 1/1 | 1/1 | 5.18 | 6.29 |
| 1/1 | 1/1 | 3.6 | 4.77 |
| 0/1 | 1/1 | 2.92 | 4.41 |
| 1/1 | 1/1 | 5.12 | 6.65 |
| 1/1 | 1/1 | 4.09 | 5.74 |
| 1/1 | 1/1 | 5.78 | 7.53 |
| 1/1 | 1/1 | 5.12 | 6.88 |
| 1/1 | 1/1 | 4.52 | 6.35 |
| 0/1 | 1/1 | 4.22 | 5.15 |
| 1/1 | 1/1 | 4.43 | 5.45 |
| 1/1 | 1/1 | 6.43 | 7.46 |
| 0/1 | 1/1 | 3.76 | 4.88 |
| 0/1 | 1/1 | 3.16 | 4.63 |
| 1/1 | 1/1 | 3.7 | 4.69 |
| 1/1 | 1/1 | 5.62 | 6.71 |
| 1/1 | 1/1 | 3.86 | 5.06 |
| 1/1 | 1/1 | 3.15 | 4.41 |
| 0/1 | 1/1 | 3.48 | 3.75 |
| 1/1 | 1/1 | 5.62 | 5.99 |
| 1/1 | 0/1 | 9.36 | 8.61 |
| 1/1 | 1/1 | 6.03 | 5.4 |
| 1/1 | 1/1 | 5.55 | 4.96 |
| 1/1 | 1/1 | 7.28 | 6.7 |
| 1/1 | 0/1 | 6.48 | 5.97 |
| 1/1 | 1/1 | 4.9 | 4.4 |
| 1/1 | 1/1 | 4.27 | 3.84 |
| 1/1 | 1/1 | 6.21 | 5.85 |
| 1/1 | 1/1 | 7.77 | 7.51 |
| 1/1 | 1/1 | 8.74 | 8.5 |
| 1/1 | 1/1 | 7.72 | 7.54 |
| 0/1 | 1/1 | 5.98 | 5.99 |
| 1/1 | 1/1 | 6.61 | 6.64 |
| 1/1 | 1/1 | 12.68 | 13.09 |
| 0/1 | 1/1 | 4.44 | 5.21 |
| 1/1 | 1/1 | 6.44 | 6.88 |
| 1/1 | 1/1 | 4.08 | 4.63 |
| 1/1 | 1/1 | 4.4 | 5.2 |
| 1/1 | 1/1 | 8.69 | 7.89 |
| 1/1 | 1/1 | 3.98 | 3.3 |
| 1/1 | 0/1 | 5.11 | 4.45 |
| 1/1 | 1/1 | 7.98 | 7.45 |
| 1/1 | 1/1 | 4.02 | 3.77 |
| 1/1 | 1/1 | 4.27 | 4.06 |
| 1/1 | 1/1 | 7.35 | 7.21 |
| 1/1 | 1/1 | 4.85 | 4.78 |
| 0/1 | 1/1 | 7.11 | 7.07 |
| 0/1 | 1/1 | 5.36 | 5.36 |
| 0/1 | 1/1 | 6.38 | 6.48 |
| 1/1 | 1/1 | 5.06 | 5.19 |
| 1/1 | 1/1 | 8.99 | 9.14 |
| 1/1 | 1/1 | 7.86 | 8.23 |
| 1/1 | 1/1 | 2.65 | 3 |
| 0/1 | 1/1 | 5.32 | 5.79 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.18 | 3.88 |
| 0/1 | 1/1 | 4.04 | 4.78 |
| 0/1 | 1/1 | 3.16 | 3.92 |
| 1/1 | 1/1 | 6.79 | 8.07 |
| 1/1 | 1/1 | 10.93 | 11.43 |
| 0/1 | 1/1 | 2.86 | 3.48 |
| 1/1 | 1/1 | 3.67 | 4.77 |
| 1/1 | 1/1 | 6.85 | 8.08 |
| 1/1 | 1/1 | 7.45 | 8.95 |
| 1/1 | 1/1 | 5.67 | 7.37 |
| 1/1 | 1/1 | 4.05 | 4.36 |
| 1/1 | 1/1 | 3.37 | 3.86 |
| 1/1 | 1/1 | 5.61 | 6.14 |
| 1/1 | 1/1 | 2.88 | 2.89 |
| 1/1 | 1/1 | 4.7 | 4.88 |
| 0/1 | 1/1 | 6.83 | 7.29 |
| 1/1 | 1/1 | 6.05 | 8.27 |
| 1/1 | 1/1 | 4.94 | 7.34 |
| 1/1 | 1/1 | 4.78 | 8.05 |
| 0/1 | 1/1 | 2.85 | 6.59 |
| 0/1 | 1/1 | 2.69 | 3.65 |
| 1/1 | 1/1 | 6.07 | 7.22 |
| 1/1 | 1/1 | 4.55 | 5.92 |
| 1/1 | 1/1 | 4.63 | 6.18 |
| 0/1 | 1/1 | 3.8 | 6.44 |
| 1/1 | 1/1 | 7.27 | 6.81 |
| 1/1 | 1/1 | 6.12 | 5.84 |
| 1/1 | 1/1 | 8.84 | 8.7 |
| 1/1 | 1/1 | 6.39 | 6.26 |
| 1/1 | 1/1 | 5.99 | 5.92 |
| 1/1 | 1/1 | 8.98 | 9.05 |
| 1/1 | 1/1 | 10.24 | 10.42 |
| 1/1 | 1/1 | 6.07 | 6.5 |
| 1/1 | 1/1 | 3.57 | 4.76 |
| 0/1 | 1/1 | 3.12 | 4.5 |
| 0/1 | 1/1 | 2.07 | 3.54 |
| 1/1 | 1/1 | 5.7 | 7.2 |
| 1/1 | 1/1 | 5.49 | 5.65 |
| 1/1 | 1/1 | 3.7 | 4.08 |
| 1/1 | 1/1 | 8.1 | 7.98 |
| 1/1 | 1/1 | 12.12 | 12.24 |
| 0/1 | 1/1 | 3.1 | 3.57 |
| 1/1 | 1/1 | 4.44 | 4.95 |
| 1/1 | 1/1 | 2.83 | 3.5 |
| 1/1 | 1/1 | 5.71 | 5.89 |
| 1/1 | 1/1 | 3.8 | 4.21 |
| 0/1 | 1/1 | 2.84 | 3.3 |
| 1/1 | 1/1 | 3.32 | 3.81 |
| 1/1 | 1/1 | 6.65 | 4.85 |
| 1/1 | 1/1 | 5.86 | 4.33 |
| 1/1 | 1/1 | 7.06 | 5.57 |
| 1/1 | 1/1 | 3.71 | 2.58 |
| 1/1 | 0/1 | 3.36 | 2.26 |
| 1/1 | 0/1 | 3.67 | 2.62 |
| 1/1 | 0/1 | 3.75 | 2.8 |
| 1/1 | 1/1 | 3.7 | 2.81 |
| 1/1 | 1/1 | 3.78 | 3.16 |
| 1/1 | 1/1 | 6.89 | 6.39 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.75 | 6.25 |
| 1/1 | 1/1 | 4.79 | 4.63 |
| 1/1 | 1/1 | 2.99 | 2.92 |
| 1/1 | 1/1 | 3.41 | 3.36 |
| 1/1 | 1/1 | 12.76 | 12.83 |
| 1/1 | 1/1 | 8.59 | 6.85 |
| 1/1 | 1/1 | 7.46 | 6 |
| 1/1 | 1/1 | 9.12 | 8.13 |
| 1/1 | 1/1 | 5.92 | 5.51 |
| 1/1 | 1/1 | 7.21 | 7.23 |
| 1/1 | 1/1 | 4.55 | 5.36 |
| 0/1 | 1/1 | 2.22 | 3.32 |
| 0/1 | 1/1 | 2.86 | 4.11 |
| 1/1 | 1/1 | 3.16 | 4.45 |
| 1/1 | 1/1 | 5.36 | 5.5 |
| 1/1 | 1/1 | 9.2 | 9.65 |
| 0/1 | 1/1 | 3.73 | 4.66 |
| 0/1 | 1/1 | 2.63 | 3.65 |
| 1/1 | 1/1 | 5.51 | 6.91 |
| 1/1 | 1/1 | 8.13 | 9.37 |
| 1/1 | 1/1 | 5.33 | 6.97 |
| 0/1 | 1/1 | 3.89 | 5 |
| 0/1 | 1/1 | 4.03 | 5.55 |
| 0/1 | 1/1 | 4 | 5.6 |
| 1/1 | 1/1 | 5.09 | 6.72 |
| 0/1 | 1/1 | 5.19 | 7.01 |
| 0/1 | 1/1 | 3.13 | 5.64 |
| 0/1 | 1/1 | 3.46 | 6.51 |
| 0/1 | 1/1 | 2.79 | 6.65 |
| 0/1 | 1/1 | 4.27 | 4.8 |
| 0/1 | 1/1 | 3.89 | 4.94 |
| 1/1 | 1/1 | 7.81 | 9.05 |
| 0/1 | 1/1 | 3.86 | 6.71 |
| 0/1 | 1/1 | 3.89 | 6.92 |
| 1/1 | 1/1 | 9.2 | 5.54 |
| 1/1 | 1/1 | 6.17 | 5.27 |
| 0/1 | 1/1 | 2.32 | 3.16 |
| 0/1 | 1/1 | 3.76 | 5.12 |
| 1/1 | 1/1 | 8.34 | 8.49 |
| 1/1 | 1/1 | 6.17 | 6.39 |
| 1/1 | 1/1 | 5.36 | 6.46 |
| 1/1 | 1/1 | 6.13 | 7.38 |
| 1/1 | 1/1 | 6.19 | 6.66 |
| 1/1 | 1/1 | 6.41 | 6.87 |
| 1/1 | 1/1 | 3.96 | 4.71 |
| 0/1 | 1/1 | 4.33 | 5.34 |
| 0/1 | 1/1 | 3.04 | 4.2 |
| 1/1 | 1/1 | 4.8 | 6.14 |
| 1/1 | 1/1 | 6.44 | 6.63 |
| 0/1 | 1/1 | 3.45 | 4.78 |
| 0/1 | 1/1 | 3.76 | 3.74 |
| 0/1 | 1/1 | 4.69 | 6.15 |
| 0/1 | 1/1 | 2.78 | 3.71 |
| 0/1 | 1/1 | 2.85 | 3.94 |
| 0/1 | 1/1 | 3.89 | 5.06 |
| 0/1 | 1/1 | 3.28 | 5.23 |
| 0/1 | 1/1 | 3.41 | 4.51 |
| 0/1 | 1/1 | 1.64 | 3.04 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 13.03 | 13.11 |
| 0/1 | 1/1 | 6.33 | 6.62 |
| 1/1 | 1/1 | 5.85 | 6.35 |
| 1/1 | 1/1 | 5.85 | 6.82 |
| 0/1 | 1/1 | 2.59 | 3.7 |
| 0/1 | 1/1 | 4.27 | 5.91 |
| 1/1 | 1/1 | 5.48 | 6.49 |
| 1/1 | 1/1 | 5 | 6.91 |
| 0/1 | 1/1 | 2.59 | 3.7 |
| 0/1 | 1/1 | 4.27 | 5.91 |
| 1/1 | 1/1 | 5.48 | 6.49 |
| 1/1 | 1/1 | 5 | 6.91 |
| 1/1 | 1/1 | 8.61 | 9.53 |
| 1/1 | 1/1 | 7.58 | 9.7 |
| 1/1 | 1/1 | 7.72 | 7.68 |
| 0/1 | 1/1 | 3.45 | 3.49 |
| 1/1 | 1/1 | 2.73 | 2.99 |
| 1/1 | 1/1 | 3.43 | 3.74 |
| 0/1 | 1/1 | 6.26 | 6.75 |
| 0/1 | 1/1 | 4.77 | 5.27 |
| 1/1 | 1/1 | 9.01 | 9.52 |
| 1/1 | 1/1 | 5.99 | 6.5 |
| 1/1 | 1/1 | 7.89 | 8.44 |
| 1/1 | 1/1 | 4.49 | 5.05 |
| 1/1 | 1/1 | 7.4 | 7.96 |
| 1/1 | 1/1 | 6.08 | 6.67 |
| 1/1 | 1/1 | 4.97 | 5.63 |
| 1/1 | 1/1 | 7.38 | 8.06 |
| 1/1 | 1/1 | 5.95 | 6.69 |
| 1/1 | 1/1 | 5.74 | 6.54 |
| 1/1 | 1/1 | 6.76 | 7.57 |
| 0/1 | 1/1 | 2.26 | 3.11 |
| 1/1 | 1/1 | 4.35 | 5.31 |
| 1/1 | 1/1 | 8.53 | 9.49 |
| 1/1 | 1/1 | 5.18 | 6.27 |
| 1/1 | 1/1 | 6.01 | 7.13 |
| 1/1 | 1/1 | 4.87 | 6.05 |
| 0/1 | 1/1 | 3.14 | 4.36 |
| 1/1 | 1/1 | 4.41 | 5.65 |
| 1/1 | 1/1 | 4.64 | 5.96 |
| 0/1 | 1/1 | 5.05 | 6.38 |
| 1/1 | 1/1 | 7.4 | 8.88 |
| 1/1 | 1/1 | 3.68 | 5.46 |
| 0/1 | 1/1 | 4.34 | 6.42 |
| 1/1 | 1/1 | 6.3 | 7.53 |
| 1/1 | 1/1 | 6.86 | 8.11 |
| 1/1 | 1/1 | 4.47 | 5.74 |
| 1/1 | 1/1 | 6.91 | 8.2 |
| 1/1 | 1/1 | 5.91 | 7.21 |
| 0/1 | 1/1 | 5.55 | 6.91 |
| 1/1 | 1/1 | 7.17 | 8.58 |
| 1/1 | 1/1 | 5.03 | 6.46 |
| 1/1 | 1/1 | 4.98 | 6.49 |
| 1/1 | 1/1 | 5.01 | 7.07 |
| 1/1 | 1/1 | 3.8 | 5.98 |
| 0/1 | 1/1 | 4.2 | 6.38 |
| 1/1 | 1/1 | 4.59 | 6.8 |
| 1/1 | 1/1 | 8.72 | 9.77 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.91 | 8.02 |
| 1/1 | 1/1 | 5.93 | 7.24 |
| 1/1 | 1/1 | 8.42 | 9.72 |
| 0/1 | 1/1 | 4.63 | 6.21 |
| 1/1 | 1/1 | 5.46 | 5.68 |
| 1/1 | 1/1 | 5.71 | 5.93 |
| 1/1 | 1/1 | 5.51 | 5.83 |
| 1/1 | 1/1 | 4.79 | 5.13 |
| 0/1 | 1/1 | 3.24 | 3.81 |
| 0/1 | 1/1 | 5.61 | 6.21 |
| 0/1 | 1/1 | 4.82 | 4.67 |
| 1/1 | 1/1 | 9.45 | 9.34 |
| 1/1 | 1/1 | 6.38 | 6.3 |
| 0/1 | 1/1 | 3.73 | 3.69 |
| 1/1 | 1/1 | 7.74 | 7.72 |
| 1/1 | 1/1 | 5.95 | 6 |
| 1/1 | 1/1 | 5.49 | 5.55 |
| 1/1 | 1/1 | 4.46 | 4.57 |
| 1/1 | 1/1 | 7.37 | 7.5 |
| 1/1 | 1/1 | 5.47 | 5.62 |
| 0/1 | 1/1 | 5.93 | 6.2 |
| 0/1 | 1/1 | 5.12 | 5.79 |
| 1/1 | 1/1 | 4.81 | 4.94 |
| 1/1 | 1/1 | 5.49 | 5.62 |
| 1/1 | 1/1 | 5.73 | 5.89 |
| 1/1 | 1/1 | 7.91 | 8.24 |
| 1/1 | 1/1 | 3.97 | 4.56 |
| 0/1 | 1/1 | 3.27 | 3.88 |
| 0/1 | 1/1 | 2.9 | 3.54 |
| 1/1 | 1/1 | 5.01 | 5.68 |
| 1/1 | 1/1 | 5.5 | 6.28 |
| 0/1 | 1/1 | 3.33 | 4.1 |
| 1/1 | 1/1 | 4.82 | 5.88 |
| 0/1 | 1/1 | 6.24 | 6.65 |
| 1/1 | 1/1 | 6.65 | 7.09 |
| 0/1 | 1/1 | 4.74 | 5.87 |
| 1/1 | 1/1 | 4.69 | 4.53 |
| 1/1 | 1/1 | 7.1 | 6.96 |
| 1/1 | 1/1 | 6.94 | 6.91 |
| 0/1 | 1/1 | 4.11 | 4.32 |
| 1/1 | 1/1 | 11.09 | 11.99 |
| 1/1 | 1/1 | 3.11 | 4.15 |
| 0/1 | 1/1 | 1.57 | 2.65 |
| 0/1 | 1/1 | 2.26 | 3.35 |
| 1/1 | 1/1 | 4.49 | 5.59 |
| 0/1 | 1/1 | 3.15 | 4.25 |
| 0/1 | 1/1 | 2.55 | 3.65 |
| 1/1 | 1/1 | 4.45 | 5.57 |
| 1/1 | 1/1 | 3.47 | 4.68 |
| 1/1 | 1/1 | 6.42 | 7.66 |
| 1/1 | 1/1 | 3.06 | 4.51 |
| 0/1 | 1/1 | 3.08 | 4.54 |
| 1/1 | 1/1 | 3.46 | 4.93 |
| 1/1 | 1/1 | 5.25 | 6.8 |
| 0/1 | 1/1 | 2.55 | 4.12 |
| 0/1 | 1/1 | 4.19 | 6.84 |
| 1/1 | 1/1 | 5.23 | 5.03 |
| 0/1 | 1/1 | 5.33 | 5.37 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.62 | 3.67 |
| 1/1 | 1/1 | 3.14 | 3.28 |
| 1/1 | 1/1 | 6.64 | 6.35 |
| 1/1 | 1/1 | 7.65 | 7.39 |
| 1/1 | 1/1 | 4.83 | 4.57 |
| 1/1 | 1/1 | 3.53 | 3.31 |
| 1/1 | 1/1 | 6.23 | 6.03 |
| 1/1 | 1/1 | 6.51 | 6.33 |
| 1/1 | 1/1 | 4.63 | 4.46 |
| 1/1 | 1/1 | 4.68 | 4.55 |
| 1/1 | 1/1 | 7.47 | 7.37 |
| 1/1 | 1/1 | 8.5 | 8.44 |
| 1/1 | 1/1 | 2.82 | 2.83 |
| 1/1 | 1/1 | 4.68 | 4.7 |
| 1/1 | 1/1 | 8.81 | 9.13 |
| 1/1 | 1/1 | 11.14 | 11.49 |
| 1/1 | 1/1 | 3.77 | 4.12 |
| 0/1 | 1/1 | 2.62 | 3.96 |
| 1/1 | 1/1 | 7.46 | 7.54 |
| 1/1 | 1/1 | 3.58 | 3.7 |
| 1/1 | 1/1 | 5.62 | 5.75 |
| 1/1 | 1/1 | 5.04 | 5.17 |
| 1/1 | 1/1 | 4.19 | 4.39 |
| 0/1 | 1/1 | 3.05 | 3.26 |
| 1/1 | 1/1 | 2.92 | 3.27 |
| 1/1 | 1/1 | 3.67 | 4.35 |
| 1/1 | 1/1 | 3.45 | 6.01 |
| 0/1 | 1/1 | 5.24 | 8.83 |
| 1/1 | 1/1 | 6.59 | 10.23 |
| 1/1 | 1/1 | 4.85 | 5.87 |
| 0/1 | 1/1 | 2.35 | 3.5 |
| 1/1 | 1/1 | 5.25 | 6.57 |
| 1/1 | 1/1 | 7.65 | 9.01 |
| 1/1 | 1/1 | 6.46 | 7.82 |
| 1/1 | 1/1 | 6.91 | 8.33 |
| 1/1 | 1/1 | 6.06 | 7.59 |
| 1/1 | 1/1 | 5.7 | 7.64 |
| 0/1 | 1/1 | 5.49 | 6.24 |
| 1/1 | 1/1 | 4.75 | 5.54 |
| 1/1 | 1/1 | 3.19 | 4.05 |
| 1/1 | 1/1 | 2.97 | 4.02 |
| 1/1 | 1/1 | 9.14 | 9.52 |
| 1/1 | 1/1 | 5.15 | 5.76 |
| 0/1 | 1/1 | 2.47 | 3.2 |
| 1/1 | 1/1 | 5.57 | 7.07 |
| 1/1 | 1/1 | 5.38 | 7.13 |
| 1/1 | 1/1 | 3.81 | 5.64 |
| 1/1 | 1/1 | 11.93 | 12.53 |
| 0/1 | 1/1 | 4.91 | 6.02 |
| 1/1 | 1/1 | 10.9 | 10.8 |
| 1/1 | 1/1 | 4.58 | 4.84 |
| 1/1 | 1/1 | 5.59 | 6.55 |
| 1/1 | 1/1 | 3.23 | 4.28 |
| 1/1 | 1/1 | 3.64 | 4.75 |
| 1/1 | 1/1 | 5.23 | 6.62 |
| 1/1 | 1/1 | 6.75 | 7.21 |
| 0/1 | 1/1 | 3.26 | 3.77 |
| 0/1 | 1/1 | 2.79 | 3.31 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.21 | 3.82 |
| 0/1 | 1/1 | 4.37 | 4.98 |
| 0/1 | 1/1 | 2.99 | 4.07 |
| 1/1 | 1/1 | 10.58 | 10.94 |
| 0/1 | 1/1 | 6.51 | 6.94 |
| 1/1 | 1/1 | 6.47 | 7.03 |
| 1/1 | 1/1 | 6.16 | 6.74 |
| 1/1 | 1/1 | 6.84 | 7.43 |
| 1/1 | 1/1 | 4.28 | 4.89 |
| 1/1 | 1/1 | 6.01 | 6.65 |
| 1/1 | 1/1 | 4.27 | 4.91 |
| 1/1 | 1/1 | 5.63 | 6.28 |
| 1/1 | 1/1 | 4.91 | 5.57 |
| 1/1 | 1/1 | 4.46 | 5.15 |
| 1/1 | 1/1 | 2.33 | 3.07 |
| 1/1 | 1/1 | 5.26 | 6.06 |
| 1/1 | 1/1 | 7.59 | 8.45 |
| 1/1 | 1/1 | 4.42 | 5.34 |
| 1/1 | 1/1 | 4.82 | 5.8 |
| 0/1 | 1/1 | 2.39 | 3.48 |
| 1/1 | 1/1 | 5.31 | 6.44 |
| 0/1 | 1/1 | 2.77 | 4 |
| 0/1 | 1/1 | 4.93 | 5.71 |
| 0/1 | 1/1 | 2.07 | 3.78 |
| 1/1 | 1/1 | 7.31 | 8.08 |
| 0/1 | 1/1 | 3.97 | 4.94 |
| 0/1 | 1/1 | 2.86 | 4.18 |
| 1/1 | 1/1 | 5.56 | 6.03 |
| 1/1 | 1/1 | 5.8 | 6.3 |
| 1/1 | 1/1 | 7.97 | 8.14 |
| 1/1 | 1/1 | 6.11 | 6.29 |
| 0/1 | 1/1 | 4.18 | 4.41 |
| 1/1 | 1/1 | 5.92 | 6.19 |
| 0/1 | 1/1 | 2.59 | 3 |
| 0/1 | 1/1 | 4.55 | 4.98 |
| 1/1 | 1/1 | 3.54 | 4.64 |
| 1/1 | 1/1 | 6.47 | 7.53 |
| 0/1 | 1/1 | 3.38 | 4.6 |
| 0/1 | 1/1 | 4.12 | 5.56 |
| 1/1 | 1/1 | 7.85 | 7.46 |
| 1/1 | 1/1 | 8.53 | 8.17 |
| 1/1 | 1/1 | 4.39 | 4.28 |
| 1/1 | 1/1 | 4.82 | 4.89 |
| 0/1 | 1/1 | 4.27 | 4.64 |
| 0/1 | 1/1 | 3.69 | 4.74 |
| 1/1 | 1/1 | 7.37 | 8.55 |
| 0/1 | 1/1 | 3.61 | 4.94 |
| 1/1 | 1/1 | 8.78 | 10.27 |
| 1/1 | 1/1 | 6.37 | 6.52 |
| 1/1 | 1/1 | 7.43 | 7.62 |
| 1/1 | 1/1 | 7.33 | 7.55 |
| 0/1 | 1/1 | 2.68 | 2.93 |
| 0/1 | 1/1 | 3.35 | 3.72 |
| 0/1 | 1/1 | 3.67 | 4.22 |
| 0/1 | 1/1 | 3.25 | 3.96 |
| 0/1 | 1/1 | 3.97 | 4.9 |
| 0/1 | 1/1 | 5.21 | 6.61 |
| 1/1 | 1/1 | 3.91 | 4.4 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.86 | 4.36 |
| 1/1 | 1/1 | 2.54 | 3.1 |
| 1/1 | 1/1 | 9.01 | 9.67 |
| 1/1 | 1/1 | 6.44 | 6.21 |
| 1/1 | 1/1 | 9.33 | 9.16 |
| 1/1 | 1/1 | 4.34 | 4.22 |
| 1/1 | 1/1 | 6.97 | 6.87 |
| 1/1 | 1/1 | 4.73 | 4.66 |
| 1/1 | 1/1 | 6.59 | 6.56 |
| 1/1 | 1/1 | 5.68 | 6.3 |
| 1/1 | 1/1 | 3.33 | 4.71 |
| 1/1 | 1/1 | 3.87 | 5.35 |
| 1/1 | 1/1 | 5.31 | 6.93 |
| 1/1 | 1/1 | 7.04 | 7.48 |
| 1/1 | 1/1 | 11.92 | 12.39 |
| 1/1 | 1/1 | 4.98 | 5.63 |
| 0/1 | 1/1 | 6.41 | 7.1 |
| 1/1 | 1/1 | 3.24 | 4.52 |
| 1/1 | 1/1 | 7.72 | 8.49 |
| 1/1 | 1/1 | 6.94 | 7.8 |
| 1/1 | 1/1 | 6.59 | 7.48 |
| 1/1 | 1/1 | 6.73 | 7.89 |
| 1/1 | 1/1 | 5.94 | 7.32 |
| 0/1 | 1/1 | 3.59 | 4.18 |
| 0/1 | 1/1 | 5.4 | 6.1 |
| 1/1 | 1/1 | 7.18 | 8.05 |
| 0/1 | 1/1 | 3.3 | 3.71 |
| 0/1 | 1/1 | 5.36 | 5.79 |
| 0/1 | 1/1 | 3.77 | 4.21 |
| 1/1 | 1/1 | 8.2 | 9.45 |
| 0/1 | 1/1 | 4.33 | 5.7 |
| 1/1 | 1/1 | 2.65 | 2.92 |
| 1/1 | 1/1 | 6.8 | 7.33 |
| 1/1 | 1/1 | 4.84 | 5.66 |
| 0/1 | 1/1 | 5.44 | 6.36 |
| 1/1 | 1/1 | 4.94 | 5.94 |
| 1/1 | 1/1 | 6.6 | 6.4 |
| 1/1 | 1/1 | 3.18 | 3.14 |
| 1/1 | 1/1 | 3.93 | 4.1 |
| 0/1 | 1/1 | 3.12 | 3.31 |
| 1/1 | 1/1 | 9.6 | 9.79 |
| 1/1 | 1/1 | 7.42 | 7.62 |
| 1/1 | 1/1 | 6.04 | 7.91 |
| 1/1 | 1/1 | 5.45 | 7.63 |
| 1/1 | 1/1 | 6.12 | 8.33 |
| 1/1 | 1/1 | 7.42 | 5.46 |
| 1/1 | 1/1 | 5.98 | 4.11 |
| 1/1 | 1/1 | 6.82 | 5 |
| 1/1 | 0/1 | 4.6 | 2.79 |
| 1/1 | 1/1 | 5.85 | 4.08 |
| 1/1 | 0/1 | 4.2 | 2.45 |
| 1/1 | 0/1 | 4.07 | 3.04 |
| 1/1 | 1/1 | 5.83 | 4.81 |
| 1/1 | 0/1 | 5.22 | 4.27 |
| 1/1 | 1/1 | 4.56 | 3.82 |
| 0/1 | 1/1 | 3.77 | 3.15 |
| 1/1 | 1/1 | 7.88 | 7.37 |
| 1/1 | 1/1 | 8.24 | 7.82 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.73 | 8.44 |
| 1/1 | 1/1 | 7.67 | 7.4 |
| 1/1 | 1/1 | 7.99 | 7.77 |
| 1/1 | 1/1 | 3.63 | 3.54 |
| 1/1 | 1/1 | 11.36 | 11.29 |
| 1/1 | 1/1 | 8.33 | 8.29 |
| 1/1 | 1/1 | 8.68 | 8.88 |
| 1/1 | 1/1 | 4.52 | 5.29 |
| 1/1 | 1/1 | 3.27 | 4.05 |
| 0/1 | 1/1 | 2.26 | 3.5 |
| 1/1 | 1/1 | 6.76 | 6.63 |
| 1/1 | 1/1 | 9.3 | 9.25 |
| 1/1 | 1/1 | 6.98 | 6.95 |
| 1/1 | 1/1 | 8.04 | 8.04 |
| 1/1 | 1/1 | 11.34 | 11.47 |
| 1/1 | 1/1 | 3.98 | 4.14 |
| 1/1 | 1/1 | 6.23 | 7.18 |
| 1/1 | 1/1 | 10.68 | 7.48 |
| 1/1 | 1/1 | 10.4 | 7.38 |
| 1/1 | 1/1 | 9.75 | 6.98 |
| 1/1 | 0/1 | 4.79 | 2.35 |
| 1/1 | 0/1 | 8.93 | 6.81 |
| 1/1 | 1/1 | 8.4 | 6.54 |
| 1/1 | 0/1 | 7.08 | 5.26 |
| 1/1 | 0/1 | 4.65 | 2.85 |
| 1/1 | 1/1 | 4.56 | 3.12 |
| 1/1 | 0/1 | 3.97 | 2.61 |
| 1/1 | 1/1 | 5.51 | 4.27 |
| 1/1 | 1/1 | 6.33 | 5.12 |
| 1/1 | 1/1 | 10.28 | 9.58 |
| 1/1 | 1/1 | 4.08 | 3.5 |
| 1/1 | 1/1 | 6.78 | 6.61 |
| 1/1 | 1/1 | 12.89 | 12.74 |
| 0/1 | 1/1 | 5.59 | 5.46 |
| 0/1 | 1/1 | 4.88 | 4.85 |
| 1/1 | 1/1 | 5.55 | 6.65 |
| 1/1 | 1/1 | 7.73 | 8.85 |
| 1/1 | 1/1 | 6.18 | 7.41 |
| 1/1 | 1/1 | 4.44 | 5.68 |
| 1/1 | 1/1 | 8.86 | 10.1 |
| 1/1 | 1/1 | 4.11 | 5.54 |
| 1/1 | 1/1 | 6.85 | 8.28 |
| 1/1 | 1/1 | 5.54 | 7.08 |
| 1/1 | 1/1 | 7.07 | 8.63 |
| 1/1 | 1/1 | 4.49 | 6.05 |
| 1/1 | 1/1 | 6.61 | 8.26 |
| 0/1 | 1/1 | 3.13 | 4.78 |
| 1/1 | 1/1 | 5.99 | 7.73 |
| 1/1 | 1/1 | 5.99 | 7.73 |
| 1/1 | 1/1 | 7.23 | 9.03 |
| 1/1 | 1/1 | 3.98 | 5.77 |
| 1/1 | 1/1 | 7.35 | 9.31 |
| 1/1 | 1/1 | 7.28 | 9.29 |
| 1/1 | 1/1 | 6.42 | 8.56 |
| 1/1 | 1/1 | 4.5 | 4.85 |
| 0/1 | 1/1 | 7.64 | 8.09 |
| 0/1 | 1/1 | 6.42 | 6.93 |
| 0/1 | 1/1 | 6.06 | 6.59 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.22 | 2.77 |
| 0/1 | 1/1 | 5.54 | 6.54 |
| 1/1 | 1/1 | 5.35 | 6.81 |
| 1/1 | 1/1 | 6.18 | 7.95 |
| 1/1 | 1/1 | 4.29 | 3.4 |
| 1/1 | 1/1 | 10.28 | 10.02 |
| 1/1 | 1/1 | 10.25 | 10.11 |
| 1/1 | 0/1 | 2.65 | 2.56 |
| 1/1 | 1/1 | 13.75 | 13.68 |
| 1/1 | 1/1 | 2.16 | 2.3 |
| 0/1 | 1/1 | 3.26 | 3.54 |
| 0/1 | 1/1 | 3.81 | 4.87 |
| 1/1 | 1/1 | 4.71 | 5.78 |
| 1/1 | 1/1 | 6.84 | 7.98 |
| 1/1 | 1/1 | 4.96 | 5.65 |
| 0/1 | 1/1 | 3.23 | 3.98 |
| 1/1 | 1/1 | 2.83 | 4.22 |
| 1/1 | 1/1 | 5 | 3.81 |
| 1/1 | 0/1 | 8.25 | 7.44 |
| 1/1 | 1/1 | 8.99 | 8.2 |
| 1/1 | 1/1 | 7.56 | 6.85 |
| 1/1 | 1/1 | 9.73 | 9.26 |
| 1/1 | 1/1 | 7.58 | 7.38 |
| 0/1 | 1/1 | 3.54 | 4.33 |
| 1/1 | 1/1 | 4.4 | 5.46 |
| 0/1 | 1/1 | 2.34 | 3.47 |
| 0/1 | 1/1 | 2.86 | 4.62 |
| 1/1 | 1/1 | 5.31 | 5.52 |
| 1/1 | 1/1 | 8.96 | 9.24 |
| 1/1 | 1/1 | 5.34 | 6.24 |
| 1/1 | 1/1 | 4.36 | 5.31 |
| 1/1 | 1/1 | 5.76 | 6.54 |
| 0/1 | 1/1 | 2.32 | 3.11 |
| 1/1 | 1/1 | 7.33 | 8.12 |
| 1/1 | 1/1 | 3.94 | 4.74 |
| 1/1 | 1/1 | 6.32 | 7.12 |
| 1/1 | 1/1 | 6.81 | 7.63 |
| 1/1 | 1/1 | 5.41 | 6.52 |
| 0/1 | 1/1 | 4.41 | 5.57 |
| 0/1 | 1/1 | 4.07 | 5.4 |
| 0/1 | 1/1 | 4.61 | 6.34 |
| 1/1 | 1/1 | 3.72 | 4.86 |
| 1/1 | 1/1 | 4.21 | 5.87 |
| 0/1 | 1/1 | 2.92 | 3.38 |
| 1/1 | 1/1 | 6.76 | 8.89 |
| 0/1 | 1/1 | 4.39 | 4.89 |
| 0/1 | 1/1 | 4.44 | 5.03 |
| 0/1 | 1/1 | 3.17 | 3.87 |
| 1/1 | 1/1 | 8.51 | 9.53 |
| 1/1 | 1/1 | 2.75 | 3.6 |
| 1/1 | 1/1 | 5.95 | 6.94 |
| 1/1 | 1/1 | 9.7 | 9.15 |
| 1/1 | 1/1 | 7.19 | 6.71 |
| 1/1 | 1/1 | 6.09 | 6.17 |
| 0/1 | 1/1 | 2.32 | 2.47 |
| 1/1 | 1/1 | 4.97 | 5.21 |
| 1/1 | 1/1 | 4.32 | 4.64 |
| 1/1 | 1/1 | 5.17 | 5.63 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.49 | 9.04 |
| 1/1 | 1/1 | 4.57 | 5.73 |
| 1/1 | 1/1 | 5.29 | 5.62 |
| 1/1 | 1/1 | 2.98 | 3.34 |
| 1/1 | 1/1 | 5.3 | 6.31 |
| 1/1 | 1/1 | 5.82 | 5.4 |
| 1/1 | 1/1 | 5.85 | 5.45 |
| 1/1 | 1/1 | 2.59 | 2.5 |
| 1/1 | 0/1 | 2.7 | 2.63 |
| 1/1 | 1/1 | 5.53 | 5.5 |
| 0/1 | 1/1 | 3.75 | 3.75 |
| 1/1 | 1/1 | 3.11 | 3.18 |
| 1/1 | 1/1 | 8.09 | 8.21 |
| 1/1 | 1/1 | 9.87 | 10.01 |
| 1/1 | 1/1 | 6.53 | 6.83 |
| 1/1 | 1/1 | 5.66 | 6.25 |
| 0/1 | 1/1 | 3.31 | 4.37 |
| 1/1 | 1/1 | 5.32 | 6.49 |
| 0/1 | 1/1 | 5.14 | 6.57 |
| 1/1 | 1/1 | 6.12 | 6.85 |
| 1/1 | 1/1 | 5.89 | 6.62 |
| 1/1 | 1/1 | 3.2 | 3.49 |
| 1/1 | 1/1 | 7.06 | 7.55 |
| 1/1 | 1/1 | 3.96 | 4.26 |
| 1/1 | 1/1 | 6.31 | 6.66 |
| 1/1 | 1/1 | 4.16 | 4.95 |
| 1/1 | 1/1 | 5.54 | 5.97 |
| 1/1 | 1/1 | 4.93 | 5.37 |
| 0/1 | 1/1 | 2.49 | 3.99 |
| 0/1 | 1/1 | 3.92 | 4.99 |
| 1/1 | 1/1 | 4.22 | 5.34 |
| 1/1 | 1/1 | 3.89 | 5.53 |
| 1/1 | 1/1 | 7.05 | 7.68 |
| 0/1 | 1/1 | 5.19 | 5.87 |
| 0/1 | 1/1 | 3.55 | 3.92 |
| 0/1 | 1/1 | 2.44 | 2.92 |
| 1/1 | 1/1 | 3.49 | 4.03 |
| 0/1 | 1/1 | 2.06 | 2.22 |
| 0/1 | 1/1 | 7.01 | 7.21 |
| 0/1 | 1/1 | 2.89 | 3.19 |
| 1/1 | 1/1 | 5.58 | 4.69 |
| 1/1 | 1/1 | 8.91 | 8.14 |
| 1/1 | 1/1 | 8.21 | 7.75 |
| 1/1 | 1/1 | 7.83 | 7.68 |
| 1/1 | 1/1 | 10.92 | 10.97 |
| 0/1 | 1/1 | 3.53 | 3.97 |
| 1/1 | 1/1 | 5.73 | 6.69 |
| 1/1 | 1/1 | 5.33 | 6.62 |
| 0/1 | 1/1 | 3.94 | 5.5 |
| 1/1 | 1/1 | 6.14 | 8.04 |
| 1/1 | 1/1 | 7.33 | 8.03 |
| 0/1 | 1/1 | 4.12 | 4.92 |
| 0/1 | 1/1 | 2.67 | 3.49 |
| 1/1 | 1/1 | 5.64 | 6.49 |
| 1/1 | 1/1 | 5.46 | 6.32 |
| 1/1 | 1/1 | 6.33 | 7.54 |
| 0/1 | 1/1 | 3.6 | 5.41 |
| 1/1 | 1/1 | 3.26 | 5.48 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.91 | 5.35 |
| 1/1 | 1/1 | 7.44 | 6.88 |
| 1/1 | 1/1 | 6.3 | 5.83 |
| 1/1 | 1/1 | 4.71 | 4.26 |
| 1/1 | 1/1 | 4.93 | 4.51 |
| 1/1 | 1/1 | 9.61 | 9.28 |
| 1/1 | 1/1 | 9.19 | 8.87 |
| 1/1 | 1/1 | 2.53 | 2.27 |
| 1/1 | 1/1 | 11.15 | 11.06 |
| 1/1 | 1/1 | 4.54 | 4.46 |
| 1/1 | 1/1 | 3.99 | 4.01 |
| 1/1 | 1/1 | 6.3 | 6.41 |
| 1/1 | 1/1 | 9.75 | 9.35 |
| 1/1 | 1/1 | 3.4 | 3.01 |
| 1/1 | 1/1 | 8.63 | 8.25 |
| 0/1 | 1/1 | 4.81 | 4.48 |
| 1/1 | 1/1 | 9.55 | 9.22 |
| 1/1 | 1/1 | 5.5 | 6.46 |
| 1/1 | 1/1 | 4.89 | 6.97 |
| 1/1 | 1/1 | 5.77 | 6.54 |
| 1/1 | 1/1 | 5.21 | 6.74 |
| 1/1 | 1/1 | 5.05 | 5.61 |
| 1/1 | 1/1 | 8.03 | 8.62 |
| 1/1 | 1/1 | 4.97 | 5.68 |
| 0/1 | 1/1 | 4.69 | 5.51 |
| 1/1 | 1/1 | 3.77 | 4.88 |
| 0/1 | 1/1 | 3.7 | 4.58 |
| 0/1 | 1/1 | 4.49 | 5.45 |
| 1/1 | 1/1 | 4.49 | 4.92 |
| 1/1 | 1/1 | 5.07 | 5.74 |
| 0/1 | 1/1 | 3.82 | 4.52 |
| 1/1 | 1/1 | 4.2 | 4.91 |
| 0/1 | 1/1 | 2.26 | 3.16 |
| 0/1 | 1/1 | 4.26 | 5.36 |
| 0/1 | 1/1 | 3.02 | 4.28 |
| 1/1 | 1/1 | 8.13 | 9.56 |
| 1/1 | 1/1 | 5.86 | 7.48 |
| 1/1 | 1/1 | 7.06 | 6.96 |
| 1/1 | 1/1 | 6.88 | 7.46 |
| 0/1 | 1/1 | 2.55 | 3.04 |
| 0/1 | 1/1 | 3.78 | 4.45 |
| 1/1 | 1/1 | 3.63 | 4.38 |
| 1/1 | 1/1 | 4.81 | 5.67 |
| 0/1 | 1/1 | 2.56 | 3.44 |
| 1/1 | 1/1 | 5.48 | 6.49 |
| 1/1 | 1/1 | 5 | 6.91 |
| 1/1 | 1/1 | 5.48 | 6.49 |
| 1/1 | 1/1 | 5 | 6.91 |
| 1/1 | 1/1 | 6.9 | 7.68 |
| 1/1 | 1/1 | 8.83 | 9.84 |
| 0/1 | 1/1 | 5.34 | 6.52 |
| 1/1 | 1/1 | 10.19 | 11.46 |
| 1/1 | 1/1 | 9.77 | 11.06 |
| 1/1 | 1/1 | 9.02 | 10.77 |
| 0/1 | 1/1 | 4.55 | 5.4 |
| 0/1 | 1/1 | 1.89 | 3.17 |
| 0/1 | 1/1 | 7.66 | 7.57 |
| 1/1 | 1/1 | 7.07 | 6.99 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.63 | 7.62 |
| 0/1 | 1/1 | 7.64 | 7.66 |
| 1/1 | 1/1 | 6.27 | 6.47 |
| 0/1 | 1/1 | 5.35 | 5.65 |
| 1/1 | 1/1 | 6.4 | 6.71 |
| 0/1 | 1/1 | 4.8 | 5.46 |
| 1/1 | 1/1 | 11.62 | 11.78 |
| 1/1 | 1/1 | 7.75 | 7.93 |
| 1/1 | 1/1 | 3.3 | 2.73 |
| 1/1 | 1/1 | 3.98 | 3.46 |
| 1/1 | 1/1 | 4.87 | 4.5 |
| 1/1 | 1/1 | 6.66 | 6.3 |
| 1/1 | 1/1 | 4.8 | 4.56 |
| 1/1 | 1/1 | 5.43 | 5.19 |
| 1/1 | 1/1 | 4.35 | 4.13 |
| 0/1 | 1/1 | 2.43 | 2.25 |
| 1/1 | 1/1 | 3.8 | 3.73 |
| 1/1 | 1/1 | 6.84 | 6.89 |
| 1/1 | 1/1 | 3.51 | 3.71 |
| 1/1 | 1/1 | 6.79 | 7.3 |
| 0/1 | 1/1 | 2.21 | 2.95 |
| 1/1 | 1/1 | 5.1 | 6.47 |
| 1/1 | 1/1 | 3 | 3.86 |
| 1/1 | 1/1 | 3.27 | 4.21 |
| 1/1 | 1/1 | 7.24 | 7.26 |
| 0/1 | 1/1 | 5.5 | 5.62 |
| 1/1 | 1/1 | 4.92 | 5.08 |
| 1/1 | 1/1 | 2.87 | 2.88 |
| 1/1 | 1/1 | 5.73 | 5.75 |
| 1/1 | 1/1 | 6.47 | 6.51 |
| 0/1 | 1/1 | 3.2 | 3.25 |
| 1/1 | 1/1 | 5.08 | 5.13 |
| 1/1 | 1/1 | 5.18 | 5.28 |
| 0/1 | 1/1 | 2.83 | 2.97 |
| 1/1 | 1/1 | 11.57 | 11.77 |
| 1/1 | 1/1 | 3.58 | 3.79 |
| 0/1 | 1/1 | 5.12 | 5.34 |
| 0/1 | 1/1 | 3.8 | 4.1 |
| 1/1 | 1/1 | 7.09 | 7.48 |
| 1/1 | 1/1 | 5.7 | 6.88 |
| 1/1 | 1/1 | 4.51 | 5.72 |
| 0/1 | 1/1 | 3.21 | 4.47 |
| 1/1 | 1/1 | 5.17 | 6.44 |
| 1/1 | 1/1 | 3.86 | 5.17 |
| 1/1 | 1/1 | 4.51 | 5.96 |
| 0/1 | 1/1 | 2.48 | 4.03 |
| 0/1 | 1/1 | 3.46 | 5.03 |
| 1/1 | 1/1 | 4.13 | 6.11 |
| 0/1 | 1/1 | 1.78 | 2.86 |
| 0/1 | 1/1 | 2.48 | 3.58 |
| 1/1 | 1/1 | 3.04 | 4.28 |
| 1/1 | 1/1 | 2.39 | 3.12 |
| 1/1 | 1/1 | 7.26 | 8.01 |
| 1/1 | 1/1 | 3.02 | 3.8 |
| 0/1 | 1/1 | 3.15 | 4.07 |
| 1/1 | 1/1 | 9.93 | 10.08 |
| 0/1 | 1/1 | 2.29 | 2.65 |
| 0/1 | 1/1 | 3.11 | 4.39 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 9.34 | 9.3 |
| 1/1 | 1/1 | 6.05 | 6.05 |
| 1/1 | 1/1 | 4.05 | 4.08 |
| 0/1 | 1/1 | 6.29 | 7.08 |
| 0/1 | 1/1 | 3.65 | 4.56 |
| 0/1 | 1/1 | 6.5 | 6.65 |
| 0/1 | 1/1 | 3.76 | 3.93 |
| 1/1 | 1/1 | 5.15 | 5.34 |
| 1/1 | 1/1 | 6.31 | 6.61 |
| 1/1 | 1/1 | 5.94 | 6.29 |
| 0/1 | 1/1 | 2 | 2.67 |
| 1/1 | 1/1 | 5.03 | 5.75 |
| 0/1 | 1/1 | 2.63 | 3.66 |
| 1/1 | 1/1 | 6.08 | 6.11 |
| 1/1 | 1/1 | 6.67 | 6.72 |
| 1/1 | 1/1 | 8.37 | 8.43 |
| 1/1 | 1/1 | 7.21 | 7.29 |
| 1/1 | 1/1 | 6.53 | 6.61 |
| 1/1 | 1/1 | 7.48 | 7.57 |
| 1/1 | 1/1 | 5.4 | 5.54 |
| 1/1 | 1/1 | 10.69 | 10.83 |
| 1/1 | 1/1 | 9.11 | 9.31 |
| 1/1 | 1/1 | 5.23 | 5.57 |
| 1/1 | 1/1 | 2.94 | 3.34 |
| 0/1 | 1/1 | 2.29 | 2.71 |
| 1/1 | 1/1 | 4.02 | 4.79 |
| 1/1 | 1/1 | 4.57 | 4.52 |
| 0/1 | 1/1 | 5.37 | 5.33 |
| 0/1 | 1/1 | 9.24 | 9.22 |
| 1/1 | 0/1 | 3.99 | 4.07 |
| 1/1 | 1/1 | 10.2 | 10.35 |
| 0/1 | 1/1 | 6.89 | 7.48 |
| 1/1 | 1/1 | 5.62 | 6.61 |
| 0/1 | 1/1 | 1.91 | 3.2 |
| 0/1 | 1/1 | 2.11 | 3.73 |
| 1/1 | 1/1 | 7.99 | 7.87 |
| 1/1 | 1/1 | 4.42 | 4.32 |
| 0/1 | 1/1 | 5.56 | 6.28 |
| 1/1 | 1/1 | 3.62 | 4.74 |
| 0/1 | 1/1 | 4.35 | 3.74 |
| 1/1 | 1/1 | 6.38 | 5.78 |
| 1/1 | 1/1 | 7.37 | 7.03 |
| 1/1 | 1/1 | 7.64 | 7.39 |
| 1/1 | 1/1 | 9.76 | 9.17 |
| 1/1 | 1/1 | 5.41 | 4.89 |
| 1/1 | 1/1 | 8.8 | 8.28 |
| 1/1 | 1/1 | 8.11 | 7.68 |
| 1/1 | 1/1 | 5.42 | 4.99 |
| 1/1 | 1/1 | 6.2 | 5.79 |
| 1/1 | 1/1 | 7.04 | 6.64 |
| 1/1 | 1/1 | 3.55 | 3.16 |
| 1/1 | 1/1 | 8.5 | 8.15 |
| 1/1 | 1/1 | 4.61 | 4.28 |
| 1/1 | 1/1 | 7.39 | 7.06 |
| 1/1 | 1/1 | 3.15 | 2.84 |
| 1/1 | 1/1 | 6.91 | 6.61 |
| 1/1 | 1/1 | 6.14 | 5.84 |
| 1/1 | 1/1 | 7.53 | 7.26 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 7.87 | 7.62 |
| 1/1 | 1/1 | 3.51 | 3.33 |
| 1/1 | 1/1 | 4.94 | 4.9 |
| 0/1 | 1/1 | 3.4 | 3.36 |
| 1/1 | 1/1 | 7.05 | 7.14 |
| 1/1 | 1/1 | 5.73 | 5.83 |
| 1/1 | 1/1 | 9.25 | 9.44 |
| 0/1 | 1/1 | 6.51 | 6.72 |
| 0/1 | 1/1 | 3.74 | 3.99 |
| 0/1 | 1/1 | 5.13 | 5.55 |
| 1/1 | 1/1 | 5.62 | 6.2 |
| 1/1 | 1/1 | 7.43 | 8.33 |
| 1/1 | 1/1 | 7.98 | 8.99 |
| 1/1 | 1/1 | 6.31 | 7.39 |
| 1/1 | 1/1 | 6.17 | 7.27 |
| 0/1 | 1/1 | 4.13 | 5.52 |
| 0/1 | 1/1 | 4.24 | 5.7 |
| 0/1 | 1/1 | 4.26 | 5.74 |
| 1/1 | 1/1 | 7.51 | 7.26 |
| 1/1 | 1/1 | 7.89 | 7.74 |
| 1/1 | 1/1 | 3.04 | 2.92 |
| 1/1 | 1/1 | 7.77 | 7.69 |
| 1/1 | 1/1 | 7.74 | 7.7 |
| 1/1 | 1/1 | 4.58 | 4.56 |
| 1/1 | 1/1 | 4.22 | 4.26 |
| 1/1 | 1/1 | 3.16 | 3.24 |
| 1/1 | 1/1 | 7.37 | 7.47 |
| 0/1 | 1/1 | 3.17 | 3.34 |
| 1/1 | 1/1 | 3.2 | 3.38 |
| 1/1 | 1/1 | 5.97 | 6.31 |
| 1/1 | 1/1 | 7.69 | 8.14 |
| 1/1 | 1/1 | 2.97 | 3.82 |
| 0/1 | 1/1 | 2.64 | 3.51 |
| 0/1 | 1/1 | 4.72 | 5.5 |
| 0/1 | 1/1 | 2.79 | 3.59 |
| 0/1 | 1/1 | 1.6 | 2.45 |
| 0/1 | 1/1 | 4.24 | 5.13 |
| 1/1 | 1/1 | 4.13 | 5.39 |
| 0/1 | 1/1 | 3.59 | 5.09 |
| 1/1 | 1/1 | 7.22 | 6.66 |
| 1/1 | 1/1 | 5.28 | 4.87 |
| 1/1 | 0/1 | 5.66 | 5.27 |
| 1/1 | 1/1 | 4.29 | 3.95 |
| 0/1 | 1/1 | 5.68 | 5.4 |
| 1/1 | 1/1 | 4.34 | 4.07 |
| 1/1 | 1/1 | 5.41 | 5.21 |
| 1/1 | 1/1 | 9.08 | 10.36 |
| 1/1 | 1/1 | 4.59 | 5.87 |
| 1/1 | 1/1 | 6.89 | 8.26 |
| 1/1 | 1/1 | 6.41 | 7.81 |
| 1/1 | 1/1 | 6.95 | 8.56 |
| 1/1 | 1/1 | 4.05 | 5.81 |
| 1/1 | 1/1 | 3.16 | 5.1 |
| 1/1 | 1/1 | 3.23 | 3.86 |
| 0/1 | 1/1 | 2.53 | 4.17 |
| 0/1 | 1/1 | 3.04 | 3.81 |
| 0/1 | 1/1 | 6.39 | 7.63 |
| 0/1 | 1/1 | 5.37 | 5.43 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 2.4 | 2.56 |
| 1/1 | 1/1 | 2.76 | 2.38 |
| 1/1 | 1/1 | 8.35 | 8.04 |
| 1/1 | 1/1 | 4.41 | 4.62 |
| 0/1 | 1/1 | 2.81 | 3.71 |
| 0/1 | 1/1 | 2.74 | 4.07 |
| 1/1 | 1/1 | 5.76 | 5.31 |
| 1/1 | 1/1 | 7.33 | 6.91 |
| 1/1 | 1/1 | 5.18 | 4.82 |
| 1/1 | 1/1 | 6.07 | 5.72 |
| 1/1 | 1/1 | 5.49 | 5.15 |
| 1/1 | 1/1 | 8.18 | 8.12 |
| 1/1 | 1/1 | 3.97 | 4.11 |
| 0/1 | 1/1 | 2.46 | 2.98 |
| 1/1 | 1/1 | 3.41 | 4.75 |
| 1/1 | 1/1 | 6.76 | 8.21 |
| 0/1 | 1/1 | 4.21 | 5.87 |
| 0/1 | 1/1 | 2.12 | 2.74 |
| 0/1 | 1/1 | 3.86 | 5.09 |
| 0/1 | 1/1 | 4.31 | 4.6 |
| 0/1 | 1/1 | 4.11 | 4.6 |
| 0/1 | 1/1 | 3.44 | 3.95 |
| 1/1 | 1/1 | 11.8 | 11.58 |
| 1/1 | 1/1 | 5.08 | 5.11 |
| 0/1 | 1/1 | 5.74 | 6.04 |
| 1/1 | 1/1 | 5.12 | 5.09 |
| 0/1 | 1/1 | 1.93 | 2.44 |
| 1/1 | 1/1 | 4.46 | 5.05 |
| 1/1 | 1/1 | 3.05 | 3.87 |
| 0/1 | 1/1 | 3.09 | 3.91 |
| 1/1 | 1/1 | 5.95 | 6.83 |
| 1/1 | 1/1 | 5.15 | 6.27 |
| 1/1 | 1/1 | 4.51 | 5.75 |
| 0/1 | 1/1 | 4.19 | 4.42 |
| 0/1 | 1/1 | 4.54 | 5.06 |
| 0/1 | 1/1 | 3.78 | 4.13 |
| 0/1 | 1/1 | 2.49 | 2.87 |
| 0/1 | 1/1 | 2.78 | 3.31 |
| 0/1 | 1/1 | 3.33 | 4.18 |
| 1/1 | 1/1 | 5.35 | 5.12 |
| 0/1 | 1/1 | 2.85 | 2.74 |
| 1/1 | 1/1 | 11.13 | 11.41 |
| 1/1 | 1/1 | 3.27 | 4.81 |
| 0/1 | 1/1 | 3.59 | 5.24 |
| 1/1 | 1/1 | 7.93 | 7.57 |
| 1/1 | 1/1 | 7.42 | 7.11 |
| 1/1 | 1/1 | 6.74 | 6.47 |
| 1/1 | 1/1 | 5.4 | 5.17 |
| 1/1 | 1/1 | 7.11 | 6.92 |
| 1/1 | 1/1 | 5.55 | 5.39 |
| 1/1 | 1/1 | 7.63 | 7.65 |
| 1/1 | 1/1 | 2.93 | 3.11 |
| 1/1 | 1/1 | 5.49 | 6.32 |
| 0/1 | 1/1 | 5.19 | 6.04 |
| 1/1 | 1/1 | 7.94 | 7.31 |
| 1/1 | 1/1 | 7.99 | 7.44 |
| 1/1 | 1/1 | 8.29 | 7.75 |
| 1/1 | 0/1 | 3.34 | 2.97 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.47 | 7.35 |
| 1/1 | 1/1 | 12.62 | 12.52 |
| 1/1 | 1/1 | 7.08 | 7 |
| 0/1 | 1/1 | 7.14 | 7.21 |
| 1/1 | 1/1 | 9.35 | 9.45 |
| 1/1 | 1/1 | 8.33 | 9.71 |
| 1/1 | 1/1 | 4.48 | 6.52 |
| 1/1 | 1/1 | 4.87 | 7.29 |
| 1/1 | 1/1 | 5.43 | 6.73 |
| 1/1 | 1/1 | 7.24 | 8.53 |
| 1/1 | 1/1 | 5.45 | 7.1 |
| 1/1 | 1/1 | 4.74 | 6.75 |
| 1/1 | 1/1 | 5.62 | 6.21 |
| 0/1 | 1/1 | 6.21 | 7.08 |
| 1/1 | 1/1 | 5.45 | 6.63 |
| 1/1 | 1/1 | 5.25 | 6.5 |
| 0/1 | 1/1 | 3.46 | 5.52 |
| 1/1 | 1/1 | 5.23 | 5.61 |
| 0/1 | 1/1 | 5.35 | 5.8 |
| 1/1 | 1/1 | 6.98 | 7.47 |
| 1/1 | 1/1 | 5.45 | 5.99 |
| 1/1 | 1/1 | 6.97 | 8.13 |
| 1/1 | 1/1 | 3.72 | 3.74 |
| 1/1 | 1/1 | 4.41 | 4.49 |
| 1/1 | 1/1 | 9.46 | 9.76 |
| 1/1 | 1/1 | 3.19 | 3.83 |
| 1/1 | 1/1 | 3.49 | 4.48 |
| 1/1 | 1/1 | 2.88 | 3.89 |
| 1/1 | 1/1 | 5.95 | 7.08 |
| 1/1 | 1/1 | 4.91 | 6.09 |
| 1/1 | 1/1 | 6.11 | 7.36 |
| 0/1 | 1/1 | 3.48 | 3.82 |
| 1/1 | 1/1 | 4.08 | 4.47 |
| 1/1 | 1/1 | 6.49 | 6.95 |
| 1/1 | 1/1 | 6.21 | 6.76 |
| 0/1 | 1/1 | 3.53 | 4.09 |
| 1/1 | 1/1 | 5.27 | 6.37 |
| 0/1 | 1/1 | 2.48 | 3.82 |
| 1/1 | 1/1 | 5.15 | 6.21 |
| 1/1 | 1/1 | 3.07 | 4.15 |
| 1/1 | 1/1 | 4.35 | 5.58 |
| 1/1 | 1/1 | 5.4 | 6.79 |
| 0/1 | 1/1 | 2.86 | 4.59 |
| 1/1 | 1/1 | 2.89 | 4.59 |
| 1/1 | 1/1 | 3.61 | 5.44 |
| 1/1 | 1/1 | 8.65 | 10.63 |
| 1/1 | 1/1 | 7.74 | 9.82 |
| 1/1 | 1/1 | 8.69 | 10.87 |
| 0/1 | 1/1 | 4.09 | 7.24 |
| 1/1 | 1/1 | 4.13 | 4.19 |
| 1/1 | 1/1 | 6.16 | 6.29 |
| 1/1 | 1/1 | 12.34 | 12.48 |
| 1/1 | 1/1 | 6.58 | 7.24 |
| 1/1 | 1/1 | 5.43 | 5.34 |
| 1/1 | 1/1 | 4.29 | 4.21 |
| 1/1 | 1/1 | 7.43 | 7.56 |
| 1/1 | 1/1 | 4.4 | 4.65 |
| 1/1 | 1/1 | 7.29 | 6.56 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.04 | 5.35 |
| 1/1 | 1/1 | 11.56 | 10.9 |
| 1/1 | 1/1 | 5.45 | 4.81 |
| 1/1 | 1/1 | 5.57 | 4.97 |
| 1/1 | 1/1 | 8.76 | 8.21 |
| 1/1 | 1/1 | 5.51 | 5.01 |
| 1/1 | 1/1 | 6.19 | 5.69 |
| 1/1 | 0/1 | 6.71 | 6.27 |
| 1/1 | 1/1 | 3.58 | 3.38 |
| 1/1 | 1/1 | 7.63 | 7.46 |
| 1/1 | 1/1 | 7.02 | 6.86 |
| 0/1 | 1/1 | 6.12 | 6.19 |
| 1/1 | 1/1 | 3.12 | 3.33 |
| 0/1 | 1/1 | 2.39 | 3.19 |
| 0/1 | 1/1 | 2.59 | 3.48 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 1/1 | 1/1 | 7.51 | 7.53 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 6.56 | 6.85 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 3.46 | 3.75 |
| 1/1 | 1/1 | 4.3 | 4.83 |
| 0/1 | 1/1 | 1.99 | 3.07 |
| 1/1 | 1/1 | 4.04 | 5.17 |
| 0/1 | 1/1 | 2.72 | 3.89 |
| 0/1 | 1/1 | 4.88 | 6.08 |
| 0/1 | 1/1 | 3.5 | 4.79 |
| 0/1 | 1/1 | 3.97 | 5.45 |
| 0/1 | 1/1 | 2.45 | 4.08 |
| 0/1 | 1/1 | 3.59 | 5.69 |
| 1/1 | 1/1 | 4.69 | 5.28 |
| 1/1 | 1/1 | 5.42 | 6.13 |
| 0/1 | 1/1 | 8.81 | 9.71 |
| 1/1 | 1/1 | 6.04 | 6.95 |
| 1/1 | 1/1 | 3.7 | 3.71 |
| 1/1 | 1/1 | 11.58 | 11.62 |
| 0/1 | 1/1 | 3.16 | 3.23 |
| 0/1 | 1/1 | 3.27 | 3.44 |
| 0/1 | 1/1 | 3.66 | 4.25 |
| 0/1 | 1/1 | 4.29 | 5.49 |
| 1/1 | 1/1 | 7.43 | 7.57 |
| 1/1 | 1/1 | 11.1 | 11.32 |
| 0/1 | 1/1 | 4.64 | 5.41 |
| 1/1 | 1/1 | 3.49 | 4.32 |
| 1/1 | 1/1 | 3.95 | 4.87 |
| 1/1 | 1/1 | 3.86 | 4.9 |
| 0/1 | 1/1 | 3.31 | 4.45 |
| 1/1 | 1/1 | 5.32 | 5.3 |
| 1/1 | 1/1 | 8.15 | 8.16 |
| 1/1 | 1/1 | 8.54 | 8.57 |
| 0/1 | 1/1 | 4.93 | 4.99 |
| 0/1 | 1/1 | 3.9 | 4.05 |
| 1/1 | 1/1 | 3.89 | 4.05 |
| 1/1 | 1/1 | 5.46 | 6.75 |
| 0/1 | 1/1 | 4.42 | 6.67 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.8 | 6.7 |
| 0/1 | 1/1 | 3.07 | 3.43 |
| 1/1 | 1/1 | 4.28 | 4.89 |
| 1/1 | 1/1 | 4.07 | 5.04 |
| 1/1 | 1/1 | 4.55 | 5.59 |
| 0/1 | 1/1 | 3.14 | 4.4 |
| 1/1 | 1/1 | 6.77 | 8.2 |
| 0/1 | 1/1 | 3.29 | 4.78 |
| 1/1 | 1/1 | 5.78 | 7.71 |
| 0/1 | 1/1 | 2.99 | 5.41 |
| 1/1 | 1/1 | 4.24 | 5.27 |
| 1/1 | 1/1 | 6.28 | 7.47 |
| 0/1 | 1/1 | 3.16 | 4.45 |
| 1/1 | 1/1 | 12.17 | 12.27 |
| 0/1 | 1/1 | 3.88 | 3.98 |
| 1/1 | 1/1 | 7.04 | 7.15 |
| 1/1 | 1/1 | 10.54 | 10.68 |
| 1/1 | 1/1 | 9.14 | 9.3 |
| 1/1 | 1/1 | 6.29 | 6.49 |
| 1/1 | 1/1 | 6.5 | 6.71 |
| 1/1 | 1/1 | 10.67 | 11 |
| 1/1 | 1/1 | 7.31 | 7.65 |
| 0/1 | 1/1 | 2.68 | 2.87 |
| 1/1 | 1/1 | 6.21 | 6.49 |
| 1/1 | 1/1 | 4.47 | 4.97 |
| 1/1 | 1/1 | 5.4 | 4.76 |
| 1/1 | 1/1 | 8.67 | 8.57 |
| 1/1 | 1/1 | 8.51 | 8.42 |
| 1/1 | 1/1 | 5.17 | 6.67 |
| 1/1 | 1/1 | 3.79 | 5.36 |
| 1/1 | 1/1 | 3.95 | 5.76 |
| 1/1 | 1/1 | 3 | 4.4 |
| 0/1 | 1/1 | 2.4 | 3.92 |
| 0/1 | 1/1 | 2.86 | 3.79 |
| 1/1 | 1/1 | 4.81 | 6.23 |
| 1/1 | 1/1 | 5.58 | 7.29 |
| 1/1 | 1/1 | 6.95 | 8.37 |
| 1/1 | 1/1 | 5.98 | 7.55 |
| 1/1 | 1/1 | 5.49 | 7.12 |
| 1/1 | 1/1 | 3.68 | 5.6 |
| 0/1 | 1/1 | 6.06 | 6.33 |
| 0/1 | 1/1 | 4.17 | 4.47 |
| 0/1 | 1/1 | 4.24 | 5.05 |
| 1/1 | 1/1 | 7.3 | 8.38 |
| 0/1 | 1/1 | 2.99 | 4.07 |
| 0/1 | 1/1 | 5.13 | 6.27 |
| 1/1 | 1/1 | 5.35 | 6.5 |
| 0/1 | 1/1 | 4.05 | 5.37 |
| 1/1 | 1/1 | 3.68 | 5.09 |
| 1/1 | 1/1 | 4.58 | 6.12 |
| 1/1 | 1/1 | 5.02 | 5.78 |
| 1/1 | 1/1 | 3.03 | 3.96 |
| 1/1 | 0/1 | 3.55 | 2.58 |
| 1/1 | 1/1 | 7 | 6.09 |
| 1/1 | 1/1 | 5.06 | 4.25 |
| 1/1 | 1/1 | 6.49 | 5.72 |
| 1/1 | 1/1 | 8.72 | 8.38 |
| 1/1 | 1/1 | 9.79 | 9.47 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.17 | 7 |
| 1/1 | 1/1 | 5.63 | 5.55 |
| 1/1 | 1/1 | 4.67 | 4.82 |
| 1/1 | 1/1 | 5.34 | 5.56 |
| 1/1 | 1/1 | 11.24 | 11.55 |
| 1/1 | 0/1 | 2.54 | 2.22 |
| 1/1 | 1/1 | 6.95 | 6.84 |
| 1/1 | 1/1 | 7.91 | 7.97 |
| 1/1 | 1/1 | 6.37 | 6.58 |
| 1/1 | 1/1 | 7.55 | 8.21 |
| 1/1 | 1/1 | 6.55 | 7.22 |
| 1/1 | 1/1 | 7.35 | 8.07 |
| 1/1 | 1/1 | 6.74 | 7.49 |
| 1/1 | 1/1 | 7.19 | 7.95 |
| 1/1 | 1/1 | 7.02 | 8.04 |
| 0/1 | 1/1 | 6.44 | 7.61 |
| 1/1 | 1/1 | 6.06 | 7.26 |
| 1/1 | 1/1 | 6.06 | 6.88 |
| 1/1 | 1/1 | 5.2 | 6.33 |
| 1/1 | 1/1 | 5.79 | 7.58 |
| 1/1 | 1/1 | 4.85 | 5.83 |
| 1/1 | 1/1 | 4.17 | 5.29 |
| 1/1 | 1/1 | 3.5 | 5.72 |
| 1/1 | 1/1 | 10.51 | 10.26 |
| 1/1 | 1/1 | 9.77 | 9.66 |
| 1/1 | 1/1 | 10.53 | 10.44 |
| 0/1 | 1/1 | 3.61 | 3.58 |
| 0/1 | 1/1 | 2.14 | 2.31 |
| 1/1 | 1/1 | 10.44 | 10.66 |
| 1/1 | 1/1 | 8.47 | 8.71 |
| 1/1 | 1/1 | 7.74 | 8 |
| 0/1 | 1/1 | 3.05 | 3.44 |
| 1/1 | 1/1 | 7.2 | 7.66 |
| 0/1 | 1/1 | 3.72 | 4.23 |
| 0/1 | 1/1 | 3.51 | 4.07 |
| 1/1 | 1/1 | 5.33 | 6.02 |
| 1/1 | 1/1 | 7.84 | 8.56 |
| 1/1 | 1/1 | 5.87 | 6.61 |
| 1/1 | 1/1 | 4.41 | 5.4 |
| 0/1 | 1/1 | 5.5 | 6.08 |
| 1/1 | 1/1 | 5.9 | 6.51 |
| 1/1 | 1/1 | 4.66 | 5.4 |
| 0/1 | 1/1 | 2.8 | 3.64 |
| 1/1 | 1/1 | 6.72 | 7.8 |
| 0/1 | 1/1 | 3.76 | 5.04 |
| 0/1 | 1/1 | 3.21 | 4.34 |
| 0/1 | 1/1 | 2.96 | 4.77 |
| 1/1 | 1/1 | 5.52 | 5.59 |
| 1/1 | 1/1 | 6.63 | 6.75 |
| 0/1 | 1/1 | 7.82 | 7.97 |
| 1/1 | 1/1 | 7.97 | 8.21 |
| 0/1 | 1/1 | 3.1 | 4.21 |
| 0/1 | 1/1 | 2.68 | 4.68 |
| 0/1 | 1/1 | 6.97 | 7.11 |
| 1/1 | 1/1 | 6.24 | 6.45 |
| 1/1 | 1/1 | 5.22 | 5.51 |
| 0/1 | 1/1 | 8.81 | 9.71 |
| 1/1 | 1/1 | 4.08 | 4.98 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 1/1 | 4.61 | 5.86 |
| 1/1 | 1/1 | 4.47 | 5.72 |
| 1/1 | 1/1 | 4.52 | 5.82 |
| 1/1 | 1/1 | 4.3 | 5.6 |
| 0/1 | 1/1 | 3.41 | 3.7 |
| 1/1 | 1/1 | 3.01 | 3.32 |
| 0/1 | 1/1 | 2.99 | 3.33 |
| 1/1 | 1/1 | 7.24 | 7.63 |
| 1/1 | 1/1 | 2.86 | 3.26 |
| 1/1 | 1/1 | 2.32 | 2.93 |
| 0/1 | 1/1 | 4.88 | 5.52 |
| 1/1 | 1/1 | 7.49 | 8.29 |
| 1/1 | 1/1 | 3.82 | 4.69 |
| 0/1 | 1/1 | 2.68 | 3.97 |
| 1/1 | 1/1 | 3.75 | 5.85 |
| 1/1 | 1/1 | 7.2 | 7.92 |
| 1/1 | 1/1 | 3.55 | 4.28 |
| 1/1 | 1/1 | 6.71 | 7.53 |
| 1/1 | 1/1 | 3.46 | 4.55 |
| 0/1 | 1/1 | 4.69 | 5.84 |
| 0/1 | 1/1 | 3.96 | 4.6 |
| 0/1 | 1/1 | 3.41 | 4.29 |
| 0/1 | 1/1 | 2.94 | 4.28 |
| 0/1 | 1/1 | 2.56 | 4.15 |
| 0/1 | 1/1 | 3.11 | 5 |
| 1/1 | 1/1 | 5.39 | 5.89 |
| 1/1 | 1/1 | 5.13 | 5.63 |
| 1/1 | 1/1 | 5.75 | 6.74 |
| 0/1 | 1/1 | 2.15 | 3.41 |
| 0/1 | 1/1 | 2.63 | 4.13 |
| 1/1 | 1/1 | 4.94 | 6.51 |
| 1/1 | 1/1 | 8.78 | 8.48 |
| 1/1 | 1/1 | 7.54 | 7.28 |
| 1/1 | 1/1 | 10.33 | 10.1 |
| 1/1 | 1/1 | 6.52 | 6.63 |
| 1/1 | 1/1 | 9.46 | 8.79 |
| 1/1 | 1/1 | 7.65 | 7.15 |
| 1/1 | 1/1 | 2.73 | 2.45 |
| 1/1 | 1/1 | 4.82 | 6.14 |
| 0/1 | 1/1 | 4.27 | 5.6 |
| 1/1 | 1/1 | 3.72 | 5.31 |
| 1/1 | 1/1 | 4.28 | 4.47 |
| 1/1 | 1/1 | 5.58 | 5.84 |
| 1/1 | 1/1 | 4.68 | 5.49 |
| 1/1 | 1/1 | 6.17 | 7.12 |
| 1/1 | 1/1 | 3.16 | 4.65 |
| 0/1 | 1/1 | 5.14 | 6.29 |
| 0/1 | 1/1 | 4.3 | 6.28 |
| 0/1 | 1/1 | 3.43 | 4.51 |
| 0/1 | 1/1 | 4.23 | 5.99 |
| 1/1 | 1/1 | 8.14 | 7.69 |
| 1/1 | 1/1 | 5.28 | 4.93 |
| 1/1 | 1/1 | 7.15 | 6.85 |
| 1/1 | 1/1 | 4.51 | 4.23 |
| 1/1 | 1/1 | 4.63 | 4.48 |
| 1/1 | 1/1 | 6.2 | 6.05 |
| 1/1 | 1/1 | 6.5 | 6.55 |
| 1/1 | 1/1 | 6.69 | 6.91 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.69 | 3.98 |
| 0/1 | 1/1 | 5.53 | 6.05 |
| 1/1 | 1/1 | 4 | 5.32 |
| 0/1 | 1/1 | 3.83 | 5.16 |
| 1/1 | 1/1 | 4.82 | 6.9 |
| 1/1 | 1/1 | 6.11 | 6.51 |
| 1/1 | 1/1 | 6.26 | 6.77 |
| 1/1 | 1/1 | 3.12 | 3.69 |
| 1/1 | 1/1 | 6.57 | 7.18 |
| 1/1 | 1/1 | 6.48 | 7.11 |
| 1/1 | 1/1 | 5.81 | 6.48 |
| 1/1 | 1/1 | 4.25 | 5.01 |
| 0/1 | 1/1 | 2.96 | 3.75 |
| 1/1 | 1/1 | 3.85 | 4.66 |
| 1/1 | 1/1 | 3.78 | 4.62 |
| 1/1 | 1/1 | 4.42 | 5.38 |
| 0/1 | 1/1 | 4.23 | 4.74 |
| 0/1 | 1/1 | 4.85 | 5.39 |
| 1/1 | 1/1 | 3.56 | 4.11 |
| 0/1 | 1/1 | 6.42 | 6.97 |
| 0/1 | 1/1 | 6.4 | 6.97 |
| 0/1 | 1/1 | 4.98 | 6.11 |
| 1/1 | 1/1 | 5.81 | 6.97 |
| 1/1 | 1/1 | 4.61 | 5.93 |
| 0/1 | 1/1 | 3.78 | 5.2 |
| 0/1 | 1/1 | 3.51 | 3.8 |
| 0/1 | 1/1 | 3.47 | 3.78 |
| 0/1 | 1/1 | 1.95 | 2.27 |
| 1/1 | 1/1 | 6.06 | 6.4 |
| 1/1 | 1/1 | 3.79 | 4.55 |
| 1/1 | 1/1 | 6.22 | 8.04 |
| 1/1 | 1/1 | 3.93 | 6.08 |
| 1/1 | 1/1 | 6.22 | 8.04 |
| 1/1 | 1/1 | 3.93 | 6.08 |
| 1/1 | 1/1 | 4.18 | 3 |
| 1/1 | 1/1 | 7.68 | 6.52 |
| 1/1 | 0/1 | 2.79 | 2 |
| 1/1 | 1/1 | 7.2 | 6.6 |
| 1/1 | 0/1 | 3.06 | 2.67 |
| 1/1 | 1/1 | 6.62 | 6.32 |
| 1/1 | 1/1 | 3.28 | 3.02 |
| 1/1 | 1/1 | 6.44 | 6.69 |
| 1/1 | 1/1 | 6.49 | 4.95 |
| 1/1 | 1/1 | 8.08 | 6.61 |
| 1/1 | 1/1 | 2.96 | 2.34 |
| 1/1 | 1/1 | 8.26 | 7.71 |
| 1/1 | 1/1 | 7.53 | 7.03 |
| 1/1 | 1/1 | 10.48 | 10.24 |
| 1/1 | 1/1 | 6.65 | 6.63 |
| 0/1 | 1/1 | 2.41 | 2.59 |
| 1/1 | 1/1 | 5.2 | 7.03 |
| 0/1 | 1/1 | 5.29 | 7.51 |
| 0/1 | 1/1 | 3.82 | 6.91 |
| 1/1 | 1/1 | 4.2 | 5.4 |
| 1/1 | 1/1 | 6.23 | 7.57 |
| 1/1 | 1/1 | 3.33 | 4.94 |
| 1/1 | 1/1 | 4.13 | 6.37 |
| 0/1 | 1/1 | 3.66 | 6.1 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 3.59 | 3.86 |
| 0/1 | 1/1 | 2.47 | 2.87 |
| 1/1 | 1/1 | 2.75 | 3.59 |
| 1/1 | 1/1 | 4.45 | 4.78 |
| 1/1 | 1/1 | 3.25 | 3.89 |
| 0/1 | 1/1 | 2.37 | 3.34 |
| 1/1 | 1/1 | 4.38 | 5.5 |
| 1/1 | 1/1 | 6.49 | 7.44 |
| 1/1 | 1/1 | 5.3 | 6.32 |
| 1/1 | 1/1 | 4.44 | 5.64 |
| 1/1 | 1/1 | 4.69 | 6.15 |
| 1/1 | 1/1 | 4.65 | 6.22 |
| 1/1 | 0/1 | 2.34 | 2.06 |
| 0/1 | 1/1 | 2.66 | 2.55 |
| 1/1 | 0/1 | 2.76 | 2.7 |
| 0/1 | 1/1 | 2.69 | 2.7 |
| 0/1 | 1/1 | 2.98 | 3 |
| 0/1 | 1/1 | 3.26 | 3.3 |
| 0/1 | 1/1 | 2.89 | 2.99 |
| 0/1 | 1/1 | 2.96 | 3.14 |
| 1/1 | 1/1 | 2.95 | 3.29 |
| 0/1 | 1/1 | 5.32 | 5.69 |
| 1/1 | 0/1 | 2.44 | 2.64 |
| 0/1 | 1/1 | 3.66 | 3.92 |
| 0/1 | 1/1 | 2.61 | 3.08 |
| 1/1 | 1/1 | 5.84 | 6.33 |
| 0/1 | 1/1 | 2.29 | 2.98 |
| 0/1 | 1/1 | 2.72 | 3.42 |
| 0/1 | 1/1 | 2.59 | 3.31 |
| 1/1 | 1/1 | 5.61 | 5.65 |
| 1/1 | 1/1 | 9.94 | 10.29 |
| 1/1 | 1/1 | 8.51 | 8.93 |
| 1/1 | 1/1 | 7.88 | 9.05 |
| 1/1 | 1/1 | 4.87 | 6.1 |
| 1/1 | 1/1 | 3.26 | 3.75 |
| 1/1 | 1/1 | 4.42 | 4.92 |
| 1/1 | 1/1 | 5.02 | 5.79 |
| 1/1 | 1/1 | 3.69 | 4.48 |
| 0/1 | 1/1 | 2.47 | 3.86 |
| 0/1 | 1/1 | 2.48 | 3.85 |
| 0/1 | 1/1 | 2.67 | 4.23 |
| 1/1 | 1/1 | 3.62 | 4.31 |
| 0/1 | 1/1 | 2.79 | 3.66 |
| 1/1 | 1/1 | 5.05 | 5.93 |
| 1/1 | 1/1 | 5.89 | 6.8 |
| 0/1 | 1/1 | 2.94 | 3.95 |
| 1/1 | 1/1 | 8.65 | 10.47 |
| 1/1 | 1/1 | 4.35 | 6.17 |
| 1/1 | 1/1 | 7.9 | 9.74 |
| 1/1 | 1/1 | 7.81 | 9.8 |
| 0/1 | 1/1 | 2.77 | 4.77 |
| 1/1 | 1/1 | 5.88 | 7.9 |
| 0/1 | 1/1 | 4.53 | 6.9 |
| 1/1 | 1/1 | 5.34 | 7.84 |
| 0/1 | 1/1 | 3.23 | 6.76 |
| 0/1 | 1/1 | 5.4 | 6.4 |
| 0/1 | 1/1 | 4.03 | 5.22 |
| 1/1 | 1/1 | 6.21 | 6.53 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.26 | 5.58 |
| 0/1 | 1/1 | 3.57 | 3.95 |
| 1/1 | 1/1 | 7.35 | 7.74 |
| 1/1 | 1/1 | 6.11 | 6.56 |
| 0/1 | 1/1 | 5.76 | 6.75 |
| 0/1 | 1/1 | 2.82 | 5.09 |
| 1/1 | 1/1 | 6.48 | 7.03 |
| 1/1 | 1/1 | 6.01 | 6.65 |
| 1/1 | 1/1 | 4.06 | 4.78 |
| 1/1 | 1/1 | 4.83 | 6 |
| 1/1 | 1/1 | 5.96 | 7.46 |
| 1/1 | 1/1 | 3.49 | 5.57 |
| 1/1 | 1/1 | 4.6 | 5.19 |
| 1/1 | 1/1 | 7.11 | 7.74 |
| 0/1 | 1/1 | 4.77 | 4.73 |
| 1/1 | 1/1 | 12.34 | 12.41 |
| 1/1 | 1/1 | 6.66 | 6.72 |
| 1/1 | 1/1 | 6.78 | 6.96 |
| 0/1 | 1/1 | 2.54 | 2.83 |
| 1/1 | 1/1 | 8.89 | 9.17 |
| 1/1 | 1/1 | 3.91 | 4.23 |
| 1/1 | 1/1 | 7.74 | 8.1 |
| 0/1 | 1/1 | 4.53 | 4.95 |
| 1/1 | 1/1 | 5.52 | 6.28 |
| 1/1 | 1/1 | 5.35 | 4.89 |
| 1/1 | 1/1 | 7.36 | 6.94 |
| 1/1 | 1/1 | 5.13 | 4.81 |
| 1/1 | 1/1 | 12.53 | 12.33 |
| 0/1 | 1/1 | 5.56 | 5.7 |
| 1/1 | 1/1 | 9.11 | 9.3 |
| 1/1 | 1/1 | 5.28 | 5.92 |
| 0/1 | 1/1 | 3.34 | 3.91 |
| 0/1 | 1/1 | 2.34 | 3.31 |
| 0/1 | 1/1 | 6.44 | 7.45 |
| 0/1 | 1/1 | 5.82 | 7.04 |
| 1/1 | 1/1 | 7.91 | 9.15 |
| 1/1 | 1/1 | 7.66 | 9.16 |
| 0/1 | 1/1 | 5.87 | 7.84 |
| 1/1 | 1/1 | 3.64 | 4.52 |
| 1/1 | 1/1 | 6.53 | 7.5 |
| 1/1 | 1/1 | 7.39 | 8.44 |
| 1/1 | 1/1 | 3.97 | 5.19 |
| 0/1 | 1/1 | 3.96 | 5.5 |
| 0/1 | 1/1 | 4.49 | 5.1 |
| 1/1 | 1/1 | 4.56 | 5.17 |
| 0/1 | 1/1 | 5.41 | 6.04 |
| 1/1 | 1/1 | 6.85 | 6.82 |
| 1/1 | 1/1 | 4.23 | 4.31 |
| 1/1 | 1/1 | 11.44 | 11.53 |
| 0/1 | 1/1 | 2.44 | 3.19 |
| 1/1 | 1/1 | 3.83 | 4.71 |
| 1/1 | 1/1 | 3.71 | 4.62 |
| 1/1 | 1/1 | 10.35 | 11.56 |
| 0/1 | 1/1 | 4.08 | 5.37 |
| 1/1 | 1/1 | 4.31 | 5.81 |
| 1/1 | 1/1 | 5.56 | 5.56 |
| 1/1 | 1/1 | 6.87 | 6.88 |
| 1/1 | 1/1 | 4.77 | 4.82 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 5.54 | 5.61 |
| 1/1 | 1/1 | 4.62 | 4.86 |
| 0/1 | 1/1 | 3.73 | 4.11 |
| 0/1 | 1/1 | 2.2 | 2.62 |
| 1/1 | 1/1 | 10.92 | 11.52 |
| 1/1 | 1/1 | 5.35 | 4.79 |
| 1/1 | 1/1 | 3.73 | 3.17 |
| 1/1 | 1/1 | 6.15 | 5.68 |
| 1/1 | 1/1 | 7.42 | 7.11 |
| 1/1 | 1/1 | 3.86 | 3.62 |
| 1/1 | 1/1 | 4.46 | 4.32 |
| 1/1 | 1/1 | 6.78 | 6.69 |
| 0/1 | 1/1 | 5.73 | 5.75 |
| 0/1 | 1/1 | 2.94 | 3.24 |
| 1/1 | 1/1 | 4.08 | 4.56 |
| 1/1 | 1/1 | 3.27 | 3.47 |
| 1/1 | 1/1 | 5.36 | 5.59 |
| 1/1 | 1/1 | 3.43 | 3.68 |
| 1/1 | 1/1 | 6.82 | 7.09 |
| 1/1 | 1/1 | 4.13 | 4.41 |
| 1/1 | 1/1 | 5.01 | 5.56 |
| 1/1 | 1/1 | 3.29 | 4.07 |
| 0/1 | 1/1 | 4.16 | 5.13 |
| 1/1 | 1/1 | 3.22 | 4.66 |
| 1/1 | 1/1 | 4.54 | 4.49 |
| 1/1 | 1/1 | 4.12 | 4.09 |
| 1/1 | 1/1 | 3.33 | 3.39 |
| 0/1 | 1/1 | 4.46 | 4.55 |
| 1/1 | 1/1 | 5.92 | 6.11 |
| 1/1 | 1/1 | 4.34 | 4.57 |
| 1/1 | 1/1 | 3.01 | 3.28 |
| 1/1 | 1/1 | 3.53 | 4.47 |
| 0/1 | 1/1 | 3.03 | 4.16 |
| 1/1 | 1/1 | 4.52 | 5.84 |
| 1/1 | 1/1 | 6.11 | 6.31 |
| 1/1 | 1/1 | 7.87 | 8.1 |
| 1/1 | 1/1 | 2.64 | 2.9 |
| 1/1 | 1/1 | 3.92 | 4.19 |
| 0/1 | 1/1 | 3.44 | 4.46 |
| 1/1 | 1/1 | 7.06 | 8.83 |
| 1/1 | 1/1 | 9.6 | 11.56 |
| 1/1 | 1/1 | 3.12 | 4.41 |
| 0/1 | 1/1 | 4.19 | 6.02 |
| 0/1 | 1/1 | 2.76 | 4.94 |
| 1/1 | 1/1 | 4.47 | 6.73 |
| 0/1 | 1/1 | 2.86 | 5.21 |
| 1/1 | 1/1 | 3.47 | 3.54 |
| 1/1 | 1/1 | 12.37 | 12.73 |
| 1/1 | 1/1 | 9.84 | 9.56 |
| 1/1 | 1/1 | 7.44 | 7.61 |
| 0/1 | 1/1 | 2.86 | 3.47 |
| 1/1 | 1/1 | 4 | 5.27 |
| 1/1 | 1/1 | 3.87 | 4.12 |
| 1/1 | 1/1 | 5.83 | 6.22 |
| 0/1 | 1/1 | 2.01 | 2.55 |
| 1/1 | 1/1 | 2.2 | 2.89 |
| 1/1 | 1/1 | 2.11 | 2.71 |
| 1/1 | 1/1 | 5.41 | 6.02 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4 | 4.79 |
| 0/1 | 1/1 | 3.97 | 4.83 |
| 1/1 | 1/1 | 4.91 | 5.82 |
| 1/1 | 1/1 | 4.57 | 5.65 |
| 1/1 | 1/1 | 6.96 | 6.54 |
| 1/1 | 1/1 | 8.96 | 8.7 |
| 1/1 | 1/1 | 6.23 | 6.17 |
| 1/1 | 1/1 | 8.15 | 8.1 |
| 0/1 | 1/1 | 9.44 | 9.41 |
| 1/1 | 1/1 | 6.66 | 6.71 |
| 0/1 | 1/1 | 4.49 | 4.6 |
| 1/1 | 1/1 | 10.93 | 11.13 |
| 1/1 | 1/1 | 6.17 | 6.37 |
| 1/1 | 1/1 | 5.41 | 5.64 |
| 0/1 | 1/1 | 4.71 | 5 |
| 1/1 | 1/1 | 6.55 | 6.98 |
| 1/1 | 1/1 | 3.38 | 3.84 |
| 1/1 | 1/1 | 7.89 | 8.42 |
| 0/1 | 1/1 | 5.16 | 5.69 |
| 0/1 | 1/1 | 4.31 | 4.91 |
| 1/1 | 1/1 | 3.37 | 4.37 |
| 1/1 | 1/1 | 2.28 | 2.22 |
| 1/1 | 1/1 | 7.72 | 7.91 |
| 0/1 | 1/1 | 2.85 | 3.06 |
| 1/1 | 1/1 | 6.82 | 7.48 |
| 1/1 | 1/1 | 5.98 | 7.43 |
| 1/1 | 1/1 | 5 | 6.71 |
| 1/1 | 1/1 | 8.21 | 10.33 |
| 1/1 | 1/1 | 3.27 | 4.04 |
| 1/1 | 1/1 | 4.32 | 5.43 |
| 0/1 | 1/1 | 2.62 | 3.84 |
| 0/1 | 1/1 | 3.73 | 4.31 |
| 0/1 | 1/1 | 7.83 | 8.41 |
| 0/1 | 1/1 | 4.68 | 5.81 |
| 1/1 | 1/1 | 6.3 | 6.9 |
| 0/1 | 1/1 | 4.99 | 5.59 |
| 0/1 | 1/1 | 4.07 | 5.04 |
| 0/1 | 1/1 | 4.91 | 5.93 |
| 1/1 | 1/1 | 8.02 | 7.51 |
| 1/1 | 1/1 | 3.24 | 3 |
| 1/1 | 1/1 | 4.84 | 5.01 |
| 1/1 | 1/1 | 5.24 | 6.08 |
| 0/1 | 1/1 | 2.6 | 3.56 |
| 1/1 | 1/1 | 4.7 | 6.06 |
| 1/1 | 1/1 | 8.81 | 8.71 |
| 1/1 | 1/1 | 10.35 | 10.35 |
| 1/1 | 1/1 | 9.52 | 9.57 |
| 1/1 | 1/1 | 7.59 | 7.73 |
| 1/1 | 1/1 | 4.12 | 4.57 |
| 1/1 | 1/1 | 12.92 | 12.77 |
| 1/1 | 1/1 | 7.25 | 7.57 |
| 1/1 | 1/1 | 8.49 | 8.57 |
| 0/1 | 1/1 | 3.06 | 3.27 |
| 1/1 | 1/1 | 3.79 | 4.28 |
| 1/1 | 1/1 | 4.85 | 3.77 |
| 1/1 | 1/1 | 6.51 | 5.59 |
| 1/1 | 1/1 | 6.46 | 5.64 |
| 1/1 | 1/1 | 4.41 | 3.63 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 0/1 | 4.72 | 3.94 |
| 1/1 | 1/1 | 6.06 | 5.32 |
| 1/1 | 1/1 | 6.72 | 6.24 |
| 0/1 | 1/1 | 5.76 | 5.29 |
| 1/1 | 1/1 | 5.71 | 5.3 |
| 1/1 | 1/1 | 5.44 | 5.04 |
| 1/1 | 1/1 | 3.11 | 2.87 |
| 1/1 | 1/1 | 4.03 | 3.8 |
| 1/1 | 1/1 | 3.15 | 3 |
| 1/1 | 1/1 | 5.64 | 5.77 |
| 0/1 | 1/1 | 4.19 | 4.39 |
| 1/1 | 1/1 | 10.44 | 11.3 |
| 0/1 | 1/1 | 2.95 | 4.15 |
| 1/1 | 1/1 | 10.94 | 11.01 |
| 0/1 | 1/1 | 5.05 | 5.21 |
| 0/1 | 1/1 | 5.49 | 5.67 |
| 1/1 | 1/1 | 12.22 | 12.42 |
| 1/1 | 1/1 | 5.83 | 6.18 |
| 1/1 | 1/1 | 5.69 | 6.08 |
| 1/1 | 1/1 | 4.31 | 4.85 |
| 0/1 | 1/1 | 5.95 | 6.7 |
| 1/1 | 1/1 | 5.53 | 5.7 |
| 1/1 | 1/1 | 3.98 | 4.17 |
| 1/1 | 1/1 | 8.64 | 8.91 |
| 1/1 | 1/1 | 6.01 | 6.45 |
| 0/1 | 1/1 | 4.46 | 4.92 |
| 0/1 | 1/1 | 5.68 | 6.44 |
| 1/1 | 1/1 | 13.46 | 12.87 |
| 1/1 | 1/1 | 13.07 | 12.62 |
| 1/1 | 1/1 | 12.91 | 12.63 |
| 1/1 | 1/1 | 4.99 | 6.31 |
| 1/1 | 1/1 | 4.02 | 5.41 |
| 0/1 | 1/1 | 4.51 | 5.43 |
| 0/1 | 1/1 | 5.25 | 6.19 |
| 1/1 | 1/1 | 3.79 | 4.83 |
| 1/1 | 1/1 | 3.67 | 4.85 |
| 1/1 | 1/1 | 6.64 | 7.35 |
| 0/1 | 1/1 | 3.84 | 4.63 |
| 1/1 | 1/1 | 4.57 | 5.22 |
| 1/1 | 1/1 | 2.73 | 3.55 |
| 1/1 | 1/1 | 5.17 | 6.26 |
| 0/1 | 1/1 | 1.63 | 2.95 |
| 1/1 | 0/1 | 2.55 | 2.27 |
| 1/1 | 1/1 | 5.29 | 5.03 |
| 1/1 | 1/1 | 4.15 | 3.97 |
| 1/1 | 1/1 | 5.16 | 5.05 |
| 1/1 | 1/1 | 8.37 | 8.32 |
| 1/1 | 1/1 | 2.92 | 3.01 |
| 0/1 | 1/1 | 2.64 | 2.76 |
| 1/1 | 1/1 | 9.36 | 9.55 |
| 1/1 | 1/1 | 3.86 | 4.14 |
| 1/1 | 1/1 | 3.26 | 3.64 |
| 0/1 | 1/1 | 4.36 | 4.75 |
| 1/1 | 1/1 | 5.02 | 5.41 |
| 1/1 | 1/1 | 4.36 | 5.41 |
| 1/1 | 1/1 | 3.99 | 5.69 |
| 1/1 | 1/1 | 5.87 | 5.62 |
| 1/1 | 1/1 | 3.86 | 3.6 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 6.31 | 6.06 |
| 1/1 | 1/1 | 8.29 | 8.11 |
| 1/1 | 1/1 | 7.73 | 7.72 |
| 1/1 | 1/1 | 6.44 | 6.52 |
| 0/1 | 1/1 | 6.8 | 7.09 |
| 1/1 | 1/1 | 4.37 | 4.95 |
| 0/1 | 1/1 | 5.38 | 6 |
| 1/1 | 1/1 | 4.19 | 4.91 |
| 1/1 | 1/1 | 4.67 | 5.98 |
| 1/1 | 1/1 | 4.22 | 5.54 |
| 1/1 | 1/1 | 2.88 | 4.57 |
| 0/1 | 1/1 | 2.89 | 4.58 |
| 1/1 | 1/1 | 4.63 | 6.41 |
| 1/1 | 1/1 | 4.09 | 6.47 |
| 1/1 | 1/1 | 9 | 8.51 |
| 1/1 | 1/1 | 7.51 | 7.03 |
| 1/1 | 1/1 | 5.77 | 5.34 |
| 1/1 | 1/1 | 6.87 | 6.54 |
| 1/1 | 1/1 | 7.35 | 7.04 |
| 1/1 | 1/1 | 7.7 | 7.63 |
| 1/1 | 1/1 | 9.1 | 9.13 |
| 0/1 | 1/1 | 3.61 | 3.66 |
| 1/1 | 1/1 | 8.88 | 9.03 |
| 0/1 | 1/1 | 6 | 6.24 |
| 1/1 | 1/1 | 6.33 | 7.12 |
| 0/1 | 1/1 | 3.61 | 5.22 |
| 1/1 | 1/1 | 4.86 | 5.11 |
| 1/1 | 1/1 | 3.01 | 3.28 |
| 1/1 | 1/1 | 3.66 | 3.96 |
| 0/1 | 1/1 | 2.53 | 2.83 |
| 0/1 | 1/1 | 2.2 | 2.83 |
| 1/1 | 1/1 | 3.15 | 2.91 |
| 1/1 | 1/1 | 5.73 | 5.54 |
| 1/1 | 1/1 | 4.7 | 4.63 |
| 1/1 | 1/1 | 7.04 | 6.97 |
| 1/1 | 1/1 | 4.18 | 4.25 |
| 1/1 | 1/1 | 7.84 | 8.08 |
| 0/1 | 1/1 | 4.7 | 5.06 |
| 1/1 | 1/1 | 7.81 | 8.22 |
| 0/1 | 1/1 | 2.69 | 3.63 |
| 0/1 | 1/1 | 3.42 | 3.99 |
| 0/1 | 1/1 | 2.26 | 2.94 |
| 1/1 | 1/1 | 4.07 | 5.03 |
| 1/1 | 1/1 | 7.61 | 8.63 |
| 1/1 | 1/1 | 4.54 | 5.73 |
| 1/1 | 1/1 | 5.01 | 6.65 |
| 1/1 | 1/1 | 6.95 | 7.18 |
| 1/1 | 1/1 | 3.54 | 3.82 |
| 1/1 | 1/1 | 3.9 | 4.2 |
| 1/1 | 1/1 | 5.14 | 5.47 |
| 0/1 | 1/1 | 4.33 | 4.71 |
| 1/1 | 1/1 | 6.91 | 7.31 |
| 0/1 | 1/1 | 2.22 | 2.73 |
| 0/1 | 1/1 | 5.76 | 6.29 |
| 1/1 | 1/1 | 6.87 | 7.5 |
| 1/1 | 1/1 | 5.7 | 6.37 |
| 1/1 | 1/1 | 3.35 | 4.08 |
| 0/1 | 1/1 | 3.55 | 4.41 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 5.24 | 6.11 |
| 0/1 | 1/1 | 4.76 | 5.65 |
| 1/1 | 0/1 | 8.36 | 7.36 |
| 1/1 | 1/1 | 4.22 | 3.46 |
| 1/1 | 1/1 | 5.73 | 5.15 |
| 1/1 | 1/1 | 9.05 | 8.51 |
| 1/1 | 1/1 | 6.42 | 6.02 |
| 1/1 | 1/1 | 4.51 | 4.41 |
| 0/1 | 1/1 | 6.61 | 6.54 |
| 0/1 | 1/1 | 6.74 | 6.85 |
| 1/1 | 1/1 | 6.2 | 7.65 |
| 0/1 | 1/1 | 5.11 | 6.6 |
| 0/1 | 1/1 | 3.11 | 5.12 |
| 1/1 | 1/1 | 5.66 | 6.83 |
| 1/1 | 1/1 | 5.2 | 6.64 |
| 1/1 | 1/1 | 4.49 | 6.06 |
| 0/1 | 1/1 | 4.42 | 6.45 |
| 0/1 | 1/1 | 3.14 | 5.34 |
| 0/1 | 1/1 | 4.78 | 7.11 |
| 1/1 | 1/1 | 6.14 | 7.51 |
| 1/1 | 1/1 | 4.41 | 5.83 |
| 0/1 | 1/1 | 3.25 | 4.71 |
| 0/1 | 1/1 | 2.58 | 4.04 |
| 1/1 | 1/1 | 3.3 | 4.9 |
| 1/1 | 1/1 | 3.91 | 5.95 |
| 1/1 | 1/1 | 5.14 | 5.34 |
| 1/1 | 1/1 | 7.12 | 7.71 |
| 0/1 | 1/1 | 2.59 | 3.73 |
| 1/1 | 1/1 | 4.36 | 5.66 |
| 0/1 | 1/1 | 2.67 | 4.06 |
| 1/1 | 1/1 | 5.05 | 5.17 |
| 1/1 | 1/1 | 3.9 | 4.03 |
| 1/1 | 1/1 | 7.8 | 7.95 |
| 1/1 | 1/1 | 8.06 | 8.22 |
| 1/1 | 1/1 | 6.81 | 7.05 |
| 1/1 | 1/1 | 6.65 | 7.11 |
| 1/1 | 1/1 | 5.44 | 5.94 |
| 0/1 | 1/1 | 3.67 | 4.7 |
| 1/1 | 1/1 | 4 | 4.88 |
| 1/1 | 1/1 | 5.32 | 6.62 |
| 0/1 | 1/1 | 3.23 | 3.93 |
| 1/1 | 1/1 | 4.57 | 5.28 |
| 0/1 | 1/1 | 2.75 | 3.61 |
| 0/1 | 1/1 | 4.15 | 5.31 |
| 1/1 | 1/1 | 6.46 | 6.59 |
| 0/1 | 1/1 | 2.84 | 3.13 |
| 0/1 | 1/1 | 5.52 | 5.85 |
| 1/1 | 1/1 | 5.02 | 5.55 |
| 1/1 | 1/1 | 8.3 | 8.35 |
| 1/1 | 1/1 | 3.45 | 3.6 |
| 0/1 | 1/1 | 3.29 | 4.25 |
| 1/1 | 1/1 | 10.49 | 11.5 |
| 0/1 | 1/1 | 3.3 | 4.35 |
| 1/1 | 1/1 | 5.33 | 6.23 |
| 0/1 | 1/1 | 3.05 | 4 |
| 1/1 | 1/1 | 5.85 | 6.49 |
| 0/1 | 1/1 | 5.94 | 6.65 |
| 1/1 | 1/1 | 3.53 | 4.43 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.42 | 4.4 |
| 1/1 | 1/1 | 4.89 | 6.34 |
| 1/1 | 1/1 | 3.83 | 4.9 |
| 1/1 | 1/1 | 6.7 | 7.84 |
| 1/1 | 1/1 | 5.3 | 6.28 |
| 1/1 | 1/1 | 5.89 | 7.04 |
| 0/1 | 1/1 | 4.23 | 4.8 |
| 0/1 | 1/1 | 3.38 | 4.01 |
| 1/1 | 1/1 | 8.36 | 9.17 |
| 1/1 | 1/1 | 4.98 | 5.84 |
| 1/1 | 1/1 | 5.64 | 6.64 |
| 1/1 | 1/1 | 5.68 | 6.77 |
| 0/1 | 1/1 | 3.58 | 4.95 |
| 0/1 | 1/1 | 2.92 | 4.35 |
| 1/1 | 1/1 | 12.77 | 12.82 |
| 1/1 | 1/1 | 3 | 3.08 |
| 1/1 | 1/1 | 5.27 | 5.43 |
| 0/1 | 1/1 | 2.42 | 3.05 |
| 1/1 | 1/1 | 4.65 | 5.93 |
| 0/1 | 1/1 | 3.97 | 5.34 |
| 1/1 | 1/1 | 4.39 | 4.88 |
| 1/1 | 1/1 | 4.67 | 5.25 |
| 1/1 | 1/1 | 7.14 | 7.96 |
| 0/1 | 1/1 | 2.32 | 2.16 |
| 1/1 | 1/1 | 7.06 | 7.21 |
| 1/1 | 1/1 | 4.99 | 5.34 |
| 1/1 | 1/1 | 3.53 | 5.19 |
| 1/1 | 1/1 | 4.02 | 5.91 |
| 0/1 | 1/1 | 3.63 | 4.29 |
| 1/1 | 1/1 | 5.81 | 6.48 |
| 0/1 | 1/1 | 1.77 | 2.54 |
| 0/1 | 1/1 | 3.22 | 4.13 |
| 1/1 | 1/1 | 5.47 | 6.52 |
| 1/1 | 1/1 | 6.59 | 6.95 |
| 0/1 | 1/1 | 2.3 | 2.79 |
| 0/1 | 1/1 | 3.05 | 3.99 |
| 1/1 | 1/1 | 10.38 | 12.03 |
| 1/1 | 1/1 | 3.92 | 5.62 |
| 1/1 | 1/1 | 5.46 | 7.22 |
| 0/1 | 1/1 | 4.15 | 5.94 |
| 1/1 | 1/1 | 4 | 5.82 |
| 1/1 | 1/1 | 6.46 | 8.32 |
| 1/1 | 1/1 | 9.66 | 11.74 |
| 1/1 | 1/1 | 3.76 | 3.93 |
| 1/1 | 1/1 | 5.05 | 5.7 |
| 1/1 | 1/1 | 8.72 | 9.37 |
| 1/1 | 1/1 | 7.94 | 8.61 |
| 1/1 | 1/1 | 6.26 | 7.01 |
| 1/1 | 1/1 | 7.3 | 7.18 |
| 1/1 | 1/1 | 6.53 | 6.58 |
| 1/1 | 1/1 | 10.45 | 9.3 |
| 1/1 | 1/1 | 5.63 | 4.57 |
| 1/1 | 1/1 | 10.03 | 9.15 |
| 1/1 | 0/1 | 4.26 | 3.38 |
| 1/1 | 1/1 | 4.63 | 4.09 |
| 1/1 | 1/1 | 5.5 | 5.03 |
| 1/1 | 1/1 | 8.99 | 8.59 |
| 1/1 | 1/1 | 6.36 | 5.98 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.03 | 3.82 |
| 1/1 | 1/1 | 7.22 | 7.03 |
| 1/1 | 1/1 | 3.52 | 3.35 |
| 1/1 | 1/1 | 4.82 | 4.65 |
| 1/1 | 1/1 | 4.9 | 4.78 |
| 0/1 | 1/1 | 3.75 | 3.83 |
| 1/1 | 1/1 | 3.54 | 3.72 |
| 0/1 | 1/1 | 4.87 | 5.07 |
| 0/1 | 1/1 | 3.13 | 3.4 |
| 0/1 | 1/1 | 4.11 | 4.41 |
| 1/1 | 1/1 | 4.04 | 4.47 |
| 1/1 | 1/1 | 4.61 | 5.72 |
| 1/1 | 1/1 | 9.63 | 10.78 |
| 0/1 | 1/1 | 2.27 | 3.27 |
| 0/1 | 1/1 | 2.72 | 4.02 |
| 0/1 | 1/1 | 2.38 | 3.77 |
| 1/1 | 1/1 | 4.81 | 6.25 |
| 0/1 | 1/1 | 2.29 | 3.81 |
| 1/1 | 1/1 | 8.21 | 9.17 |
| 1/1 | 1/1 | 4.96 | 5.96 |
| 1/1 | 1/1 | 5.78 | 6.82 |
| 1/1 | 1/1 | 7.34 | 8.42 |
| 1/1 | 1/1 | 7.21 | 8.44 |
| 1/1 | 1/1 | 5.99 | 7.49 |
| 1/1 | 1/1 | 3.99 | 5.63 |
| 1/1 | 1/1 | 6.56 | 8.39 |
| 1/1 | 1/1 | 8.62 | 9.01 |
| 0/1 | 1/1 | 2.65 | 3.14 |
| 0/1 | 1/1 | 2.58 | 4.22 |
| 0/1 | 1/1 | 2.63 | 5.28 |
| 1/1 | 1/1 | 6.07 | 7.76 |
| 1/1 | 1/1 | 4.93 | 6.63 |
| 1/1 | 1/1 | 4.03 | 5.76 |
| 1/1 | 1/1 | 3.95 | 5.74 |
| 1/1 | 1/1 | 6.78 | 7.11 |
| 0/1 | 1/1 | 5.66 | 6.48 |
| 0/1 | 1/1 | 2.51 | 3.61 |
| 1/1 | 1/1 | 3.4 | 4.58 |
| 1/1 | 1/1 | 4.3 | 5.6 |
| 1/1 | 1/1 | 7.57 | 8.85 |
| 1/1 | 1/1 | 6.91 | 8.23 |
| 1/1 | 1/1 | 5.43 | 6.92 |
| 0/1 | 1/1 | 4.13 | 7.07 |
| 1/1 | 1/1 | 6.54 | 7.29 |
| 1/1 | 1/1 | 3.38 | 4.72 |
| 1/1 | 1/1 | 6.96 | 7.36 |
| 1/1 | 1/1 | 10.56 | 10.97 |
| 1/1 | 1/1 | 3.91 | 5.12 |
| 1/1 | 1/1 | 3.75 | 5.12 |
| 1/1 | 1/1 | 4.33 | 5.83 |
| 0/1 | 1/1 | 4.11 | 5.93 |
| 0/1 | 1/1 | 3.52 | 5.64 |
| 1/1 | 1/1 | 7.1 | 8.29 |
| 1/1 | 1/1 | 5.92 | 7.18 |
| 0/1 | 1/1 | 3.78 | 3.75 |
| 0/1 | 1/1 | 6.16 | 6.48 |
| 0/1 | 1/1 | 4.05 | 4.96 |
| 0/1 | 1/1 | 2.34 | 3.2 |

| | | | |
|-----|-----|------|-------|
| 0/1 | 1/1 | 2.54 | 3.46 |
| 1/1 | 1/1 | 6.72 | 6.84 |
| 0/1 | 1/1 | 2.05 | 2.2 |
| 0/1 | 1/1 | 2.29 | 2.5 |
| 1/1 | 1/1 | 7.18 | 7.45 |
| 1/1 | 1/1 | 3.2 | 3.53 |
| 1/1 | 1/1 | 4.23 | 5.51 |
| 1/1 | 1/1 | 4.93 | 5.05 |
| 1/1 | 1/1 | 2.61 | 2.8 |
| 1/1 | 1/1 | 4.39 | 4.59 |
| 0/1 | 1/1 | 2.58 | 3.1 |
| 0/1 | 1/1 | 3.97 | 4.62 |
| 1/1 | 1/1 | 7.17 | 7.95 |
| 0/1 | 1/1 | 2.53 | 4.85 |
| 1/1 | 1/1 | 8.02 | 8.49 |
| 1/1 | 1/1 | 9.68 | 10.19 |
| 1/1 | 1/1 | 9.33 | 10.05 |
| 1/1 | 1/1 | 3.1 | 3.67 |
| 1/1 | 1/1 | 4.6 | 5.25 |
| 1/1 | 1/1 | 4.7 | 5.63 |
| 0/1 | 1/1 | 4.03 | 4.94 |
| 0/1 | 1/1 | 2.77 | 3.73 |
| 0/1 | 1/1 | 2.57 | 3.59 |
| 1/1 | 1/1 | 9.22 | 8.18 |
| 1/1 | 1/1 | 5.64 | 4.89 |
| 1/1 | 0/1 | 2.81 | 2.11 |
| 1/1 | 1/1 | 6.08 | 5.82 |
| 1/1 | 1/1 | 3.1 | 3.24 |
| 0/1 | 1/1 | 2.38 | 3.39 |
| 0/1 | 1/1 | 3.32 | 5.19 |
| 1/1 | 1/1 | 4.54 | 5.15 |
| 0/1 | 1/1 | 4.06 | 4.66 |
| 1/1 | 1/1 | 5.73 | 7.3 |
| 1/1 | 1/1 | 8.17 | 9.5 |
| 1/1 | 1/1 | 8.79 | 10.22 |
| 1/1 | 1/1 | 7.15 | 8.73 |
| 1/1 | 1/1 | 6.07 | 7.94 |
| 1/1 | 1/1 | 7.09 | 8.96 |
| 1/1 | 1/1 | 2.82 | 4.85 |
| 1/1 | 1/1 | 6.83 | 8.85 |
| 0/1 | 1/1 | 3.94 | 7.35 |
| 1/1 | 1/1 | 5.8 | 4.99 |
| 1/1 | 1/1 | 6.01 | 5.46 |
| 1/1 | 1/1 | 8.8 | 8.28 |
| 1/1 | 1/1 | 7.44 | 6.94 |
| 1/1 | 1/1 | 7.95 | 7.45 |
| 0/1 | 1/1 | 4.88 | 4.55 |
| 1/1 | 1/1 | 9 | 8.79 |
| 1/1 | 1/1 | 6.43 | 6.37 |
| 1/1 | 1/1 | 8.82 | 8.78 |
| 1/1 | 1/1 | 6.53 | 6.69 |
| 1/1 | 1/1 | 4.94 | 5.19 |
| 0/1 | 1/1 | 2.56 | 3.27 |
| 0/1 | 1/1 | 1.85 | 2.68 |
| 1/1 | 1/1 | 3.15 | 2.72 |
| 1/1 | 1/1 | 7.4 | 7.12 |
| 1/1 | 1/1 | 7.45 | 7.18 |
| 1/1 | 1/1 | 7.99 | 7.79 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.12 | 2.94 |
| 1/1 | 1/1 | 6.27 | 6.21 |
| 1/1 | 1/1 | 6.59 | 6.6 |
| 1/1 | 1/1 | 4.83 | 4.94 |
| 0/1 | 1/1 | 2.99 | 4.38 |
| 1/1 | 1/1 | 6.09 | 7.5 |
| 1/1 | 1/1 | 5.53 | 7.24 |
| 1/1 | 1/1 | 2.99 | 5.8 |
| 1/1 | 1/1 | 7.86 | 8.71 |
| 0/1 | 1/1 | 4.78 | 5.64 |
| 1/1 | 1/1 | 4.38 | 5.61 |
| 1/1 | 1/1 | 4.74 | 6.14 |
| 0/1 | 1/1 | 4.42 | 5.85 |
| 1/1 | 1/1 | 4.55 | 6.09 |
| 1/1 | 1/1 | 3.49 | 5.23 |
| 1/1 | 1/1 | 4.26 | 4.26 |
| 0/1 | 1/1 | 2.51 | 2.53 |
| 1/1 | 1/1 | 5.41 | 5.51 |
| 1/1 | 1/1 | 3.21 | 3.37 |
| 1/1 | 1/1 | 5.59 | 5.74 |
| 1/1 | 1/1 | 8.06 | 8.25 |
| 1/1 | 1/1 | 5.63 | 5.83 |
| 1/1 | 1/1 | 5.06 | 5.37 |
| 1/1 | 1/1 | 4.25 | 4.57 |
| 0/1 | 1/1 | 2.95 | 3.29 |
| 1/1 | 1/1 | 7.86 | 8.22 |
| 1/1 | 1/1 | 10.5 | 10.9 |
| 1/1 | 1/1 | 2.96 | 3.61 |
| 1/1 | 1/1 | 2.5 | 3.35 |
| 0/1 | 1/1 | 2.68 | 3.66 |
| 1/1 | 1/1 | 4.81 | 5.87 |
| 1/1 | 1/1 | 3.07 | 4.67 |
| 1/1 | 1/1 | 4.41 | 5.47 |
| 0/1 | 1/1 | 2.67 | 3.84 |
| 0/1 | 1/1 | 2.25 | 3.8 |
| 0/1 | 1/1 | 4.69 | 5.26 |
| 0/1 | 1/1 | 7 | 7.6 |
| 1/1 | 1/1 | 5.88 | 5.83 |
| 0/1 | 1/1 | 7.09 | 7.22 |
| 1/1 | 1/1 | 6.62 | 6.78 |
| 1/1 | 1/1 | 10.94 | 10.93 |
| 1/1 | 1/1 | 5.99 | 6.06 |
| 1/1 | 1/1 | 8.15 | 8.25 |
| 1/1 | 1/1 | 5.47 | 5.57 |
| 0/1 | 1/1 | 4 | 4.12 |
| 1/1 | 1/1 | 6.34 | 6.5 |
| 1/1 | 1/1 | 9.13 | 9.38 |
| 1/1 | 1/1 | 6.46 | 6.78 |
| 0/1 | 1/1 | 4.29 | 5.08 |
| 1/1 | 1/1 | 6.79 | 8.31 |
| 1/1 | 1/1 | 4.22 | 5.87 |
| 1/1 | 1/1 | 8.25 | 7.86 |
| 1/1 | 1/1 | 7.38 | 7 |
| 1/1 | 1/1 | 12.53 | 12.32 |
| 1/1 | 1/1 | 11.5 | 11.31 |
| 1/1 | 1/1 | 5.95 | 7.43 |
| 1/1 | 1/1 | 5.19 | 7.31 |
| 0/1 | 1/1 | 2.83 | 5.37 |

| | | | |
|-----|-----|-------|------|
| 0/1 | 1/1 | 2.84 | 2.92 |
| 1/1 | 1/1 | 3.09 | 3.19 |
| 1/1 | 1/1 | 6.78 | 7.03 |
| 1/1 | 1/1 | 2.97 | 3.33 |
| 1/1 | 1/1 | 4.45 | 5.79 |
| 1/1 | 1/1 | 5.53 | 6.89 |
| 1/1 | 1/1 | 6.24 | 7.63 |
| 1/1 | 1/1 | 6.59 | 8.1 |
| 1/1 | 1/1 | 3.17 | 3.62 |
| 0/1 | 1/1 | 3.42 | 5.08 |
| 1/1 | 1/1 | 7.89 | 7.21 |
| 1/1 | 1/1 | 5.5 | 4.82 |
| 1/1 | 1/1 | 3.99 | 3.51 |
| 1/1 | 1/1 | 4.14 | 3.74 |
| 1/1 | 1/1 | 7 | 6.66 |
| 1/1 | 1/1 | 5.86 | 5.74 |
| 1/1 | 1/1 | 5.03 | 4.96 |
| 0/1 | 1/1 | 3.22 | 3.18 |
| 1/1 | 1/1 | 2.79 | 2.77 |
| 1/1 | 1/1 | 4.26 | 4.35 |
| 1/1 | 1/1 | 11.75 | 11.9 |
| 1/1 | 1/1 | 3.53 | 4.04 |
| 0/1 | 1/1 | 5.01 | 5.65 |
| 1/1 | 1/1 | 7.7 | 7.68 |
| 0/1 | 1/1 | 2.75 | 2.98 |
| 0/1 | 1/1 | 2.58 | 3.33 |
| 1/1 | 1/1 | 2.59 | 3.42 |
| 0/1 | 1/1 | 2.5 | 3.61 |
| 0/1 | 1/1 | 6.7 | 6.34 |
| 1/1 | 0/1 | 3.31 | 2.95 |
| 1/1 | 1/1 | 4.81 | 4.49 |
| 1/1 | 1/1 | 5.93 | 5.72 |
| 1/1 | 1/1 | 5.71 | 5.62 |
| 1/1 | 1/1 | 7.32 | 7.3 |
| 1/1 | 1/1 | 8.57 | 8.66 |
| 1/1 | 1/1 | 5.19 | 5.47 |
| 1/1 | 1/1 | 3.76 | 4.12 |
| 1/1 | 1/1 | 3.57 | 3.95 |
| 1/1 | 1/1 | 4.05 | 4.59 |
| 1/1 | 1/1 | 7.26 | 7.13 |
| 0/1 | 1/1 | 4.5 | 4.38 |
| 0/1 | 1/1 | 3.74 | 5.29 |
| 0/1 | 1/1 | 5.49 | 6.11 |
| 1/1 | 1/1 | 4.99 | 5.69 |
| 0/1 | 1/1 | 3.34 | 3.99 |
| 0/1 | 1/1 | 2.98 | 4.23 |
| 0/1 | 1/1 | 4.12 | 5.62 |
| 0/1 | 1/1 | 3.11 | 4.66 |
| 0/1 | 1/1 | 3.57 | 5.18 |
| 0/1 | 1/1 | 4.12 | 6.18 |
| 1/1 | 1/1 | 4.54 | 5.85 |
| 0/1 | 1/1 | 3.9 | 6.23 |
| 1/1 | 1/1 | 4.27 | 5.8 |
| 1/1 | 1/1 | 4.52 | 6.06 |
| 1/1 | 1/1 | 2.42 | 2.31 |
| 1/1 | 1/1 | 8.39 | 8.3 |
| 1/1 | 1/1 | 3.31 | 3.22 |
| 1/1 | 1/1 | 4.64 | 4.6 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 2.4 | 2.37 |
| 0/1 | 1/1 | 5.39 | 5.44 |
| 0/1 | 1/1 | 3.15 | 3.28 |
| 0/1 | 1/1 | 4.69 | 4.84 |
| 0/1 | 1/1 | 3.33 | 3.52 |
| 0/1 | 1/1 | 3.67 | 4.31 |
| 1/1 | 1/1 | 7.3 | 7 |
| 1/1 | 1/1 | 6.82 | 6.52 |
| 1/1 | 1/1 | 4.69 | 4.41 |
| 0/1 | 1/1 | 5.28 | 5.21 |
| 1/1 | 1/1 | 9.46 | 9.1 |
| 0/1 | 1/1 | 4.94 | 4.85 |
| 1/1 | 1/1 | 8.57 | 8.18 |
| 1/1 | 1/1 | 10.59 | 10.3 |
| 1/1 | 1/1 | 10.41 | 10.36 |
| 1/1 | 1/1 | 5.45 | 5.49 |
| 1/1 | 1/1 | 4.93 | 5.05 |
| 1/1 | 1/1 | 4.02 | 3.78 |
| 1/1 | 1/1 | 10.85 | 10.65 |
| 0/1 | 1/1 | 6.11 | 6.07 |
| 1/1 | 1/1 | 3.24 | 3.27 |
| 1/1 | 1/1 | 3.99 | 4.03 |
| 1/1 | 1/1 | 3.46 | 3.55 |
| 1/1 | 1/1 | 8.1 | 8.27 |
| 0/1 | 1/1 | 2.93 | 4.04 |
| 1/1 | 1/1 | 5.44 | 6.46 |
| 1/1 | 1/1 | 4.76 | 5.8 |
| 1/1 | 1/1 | 5.63 | 7.21 |
| 0/1 | 1/1 | 3.82 | 5.47 |
| 1/1 | 1/1 | 5.75 | 6.94 |
| 1/1 | 1/1 | 4.96 | 6.2 |
| 1/1 | 1/1 | 5.08 | 6.34 |
| 1/1 | 1/1 | 7.29 | 8.85 |
| 1/1 | 1/1 | 3.1 | 3.29 |
| 1/1 | 1/1 | 5.09 | 6.1 |
| 1/1 | 1/1 | 5.63 | 5.76 |
| 1/1 | 1/1 | 7.42 | 7.69 |
| 1/1 | 1/1 | 3.8 | 4.16 |
| 1/1 | 1/1 | 5.59 | 6.46 |
| 1/1 | 1/1 | 4.16 | 5.22 |
| 0/1 | 1/1 | 4.23 | 5.35 |
| 0/1 | 1/1 | 2.57 | 3.78 |
| 1/1 | 1/1 | 3.82 | 5.07 |
| 0/1 | 1/1 | 2.9 | 5.44 |
| 1/1 | 1/1 | 5.04 | 6.43 |
| 1/1 | 1/1 | 4.61 | 6.28 |
| 1/1 | 1/1 | 4.9 | 6.93 |
| 1/1 | 1/1 | 10.38 | 10.47 |
| 1/1 | 1/1 | 9.2 | 9.33 |
| 1/1 | 1/1 | 9.02 | 9.16 |
| 1/1 | 1/1 | 4.59 | 4.73 |
| 0/1 | 1/1 | 2.69 | 3 |
| 1/1 | 1/1 | 4.32 | 4.62 |
| 1/1 | 1/1 | 4.39 | 4.76 |
| 1/1 | 1/1 | 9.25 | 9.66 |
| 1/1 | 1/1 | 4.94 | 5.36 |
| 0/1 | 1/1 | 3.61 | 4.44 |
| 0/1 | 1/1 | 2.88 | 3.78 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 11.69 | 11.68 |
| 0/1 | 1/1 | 5.16 | 5.21 |
| 0/1 | 1/1 | 3.78 | 4.08 |
| 1/1 | 1/1 | 7.25 | 7.64 |
| 1/1 | 1/1 | 3.28 | 3.01 |
| 1/1 | 1/1 | 8.95 | 8.7 |
| 1/1 | 1/1 | 10.94 | 10.84 |
| 0/1 | 1/1 | 2.03 | 2.44 |
| 1/1 | 1/1 | 3.67 | 4.45 |
| 0/1 | 1/1 | 3.63 | 4.2 |
| 1/1 | 1/1 | 2.71 | 3.53 |
| 1/1 | 1/1 | 4.36 | 6.72 |
| 1/1 | 1/1 | 6.1 | 7.01 |
| 1/1 | 1/1 | 6.48 | 7.56 |
| 0/1 | 1/1 | 2.09 | 3.55 |
| 1/1 | 1/1 | 7.54 | 6.69 |
| 1/1 | 1/1 | 5.01 | 4.16 |
| 1/1 | 1/1 | 4.82 | 4.13 |
| 1/1 | 1/1 | 9.03 | 8.46 |
| 1/1 | 1/1 | 7.23 | 6.67 |
| 1/1 | 0/1 | 3.57 | 3.04 |
| 0/1 | 1/1 | 6.25 | 5.83 |
| 1/1 | 1/1 | 4.46 | 4.09 |
| 1/1 | 1/1 | 6.74 | 6.39 |
| 0/1 | 1/1 | 5.95 | 5.73 |
| 1/1 | 1/1 | 6.45 | 6.39 |
| 0/1 | 1/1 | 6.89 | 6.84 |
| 1/1 | 1/1 | 11.02 | 11.08 |
| 1/1 | 1/1 | 12.71 | 12.86 |
| 0/1 | 1/1 | 2.5 | 2.8 |
| 0/1 | 1/1 | 3.33 | 3.94 |
| 0/1 | 1/1 | 2.88 | 3.67 |
| 1/1 | 1/1 | 6.69 | 7.5 |
| 1/1 | 1/1 | 5.89 | 6.91 |
| 1/1 | 1/1 | 4.85 | 5.98 |
| 1/1 | 1/1 | 3.54 | 5.76 |
| 1/1 | 1/1 | 7.85 | 7.97 |
| 1/1 | 1/1 | 8.11 | 8.31 |
| 1/1 | 1/1 | 7.83 | 8.12 |
| 1/1 | 1/1 | 5.28 | 5.7 |
| 1/1 | 1/1 | 5.89 | 5.62 |
| 1/1 | 1/1 | 7.41 | 7.2 |
| 1/1 | 1/1 | 5.96 | 5.79 |
| 1/1 | 1/1 | 5.82 | 6.09 |
| 0/1 | 1/1 | 2.6 | 3.17 |
| 1/1 | 1/1 | 6.48 | 7.27 |
| 1/1 | 1/1 | 4.72 | 5.6 |
| 1/1 | 1/1 | 3.67 | 5.45 |
| 1/1 | 1/1 | 3.3 | 3.92 |
| 0/1 | 1/1 | 3.23 | 4.03 |
| 1/1 | 1/1 | 3.17 | 3.44 |
| 0/1 | 1/1 | 3.09 | 4.13 |
| 1/1 | 1/1 | 4.73 | 6.17 |
| 0/1 | 1/1 | 2.43 | 4.15 |
| 1/1 | 1/1 | 3.9 | 4.93 |
| 1/1 | 1/1 | 4.18 | 5.31 |
| 1/1 | 1/1 | 4.54 | 5.68 |
| 1/1 | 1/1 | 7.04 | 8.21 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.49 | 4.66 |
| 1/1 | 1/1 | 4.98 | 6.19 |
| 1/1 | 1/1 | 6.54 | 7.75 |
| 1/1 | 1/1 | 5.29 | 6.55 |
| 0/1 | 1/1 | 5.52 | 7.35 |
| 1/1 | 1/1 | 6.04 | 8.08 |
| 0/1 | 1/1 | 3.24 | 5.49 |
| 1/1 | 1/1 | 7.04 | 7 |
| 1/1 | 1/1 | 13.3 | 13.3 |
| 0/1 | 1/1 | 3.44 | 3.94 |
| 1/1 | 1/1 | 6.96 | 3.86 |
| 1/1 | 0/1 | 6.97 | 4.03 |
| 1/1 | 1/1 | 7.75 | 6.19 |
| 0/1 | 1/1 | 2.51 | 3.19 |
| 1/1 | 1/1 | 5.97 | 6.87 |
| 1/1 | 1/1 | 3.48 | 4.78 |
| 1/1 | 1/1 | 8.61 | 9.53 |
| 1/1 | 1/1 | 7.58 | 9.7 |
| 1/1 | 1/1 | 8.61 | 9.53 |
| 1/1 | 1/1 | 7.58 | 9.7 |
| 0/1 | 1/1 | 3.76 | 5.12 |
| 0/1 | 1/1 | 3.65 | 5.08 |
| 1/1 | 1/1 | 5.21 | 6.43 |
| 0/1 | 1/1 | 4.97 | 6.54 |
| 0/1 | 1/1 | 3.28 | 3.82 |
| 1/1 | 1/1 | 6.99 | 8.07 |
| 1/1 | 0/1 | 3.71 | 2.03 |
| 1/1 | 0/1 | 3.47 | 1.93 |
| 1/1 | 0/1 | 3.63 | 2.68 |
| 1/1 | 1/1 | 5.21 | 4.29 |
| 1/1 | 1/1 | 5.39 | 4.87 |
| 1/1 | 0/1 | 2.65 | 2.17 |
| 0/1 | 1/1 | 4.09 | 5.08 |
| 0/1 | 1/1 | 4.57 | 5.7 |
| 1/1 | 1/1 | 4.14 | 3.83 |
| 0/1 | 1/1 | 6.23 | 6.05 |
| 1/1 | 1/1 | 3.19 | 3.1 |
| 0/1 | 1/1 | 6.14 | 6.06 |
| 1/1 | 1/1 | 3.38 | 3.31 |
| 1/1 | 1/1 | 12.48 | 12.49 |
| 1/1 | 1/1 | 5.73 | 5.9 |
| 1/1 | 1/1 | 4.36 | 4.97 |
| 1/1 | 1/1 | 5.53 | 6.61 |
| 1/1 | 1/1 | 4.48 | 4.14 |
| 1/1 | 1/1 | 9.44 | 9.4 |
| 1/1 | 1/1 | 6.2 | 6.35 |
| 1/1 | 1/1 | 7.82 | 8.31 |
| 1/1 | 1/1 | 4.83 | 5.53 |
| 1/1 | 1/1 | 6.53 | 7.34 |
| 1/1 | 1/1 | 5.04 | 5.94 |
| 0/1 | 1/1 | 5.27 | 6.72 |
| 0/1 | 1/1 | 5.64 | 5.53 |
| 1/1 | 1/1 | 4.54 | 4.45 |
| 0/1 | 1/1 | 3.45 | 3.54 |
| 1/1 | 1/1 | 3.7 | 3.92 |
| 1/1 | 1/1 | 8.12 | 8.44 |
| 0/1 | 1/1 | 6.17 | 6.78 |
| 1/1 | 1/1 | 3.82 | 3.65 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 8.63 | 8.55 |
| 1/1 | 1/1 | 11.38 | 11.34 |
| 1/1 | 1/1 | 3.82 | 4.9 |
| 1/1 | 1/1 | 6.88 | 8.12 |
| 0/1 | 1/1 | 4.87 | 6.44 |
| 1/1 | 1/1 | 4.54 | 5.73 |
| 0/1 | 1/1 | 3.64 | 5.16 |
| 1/1 | 1/1 | 7.07 | 6.67 |
| 1/1 | 1/1 | 3.62 | 3.28 |
| 1/1 | 1/1 | 2.63 | 2.4 |
| 1/1 | 1/1 | 4.29 | 4.11 |
| 1/1 | 1/1 | 7.21 | 7.39 |
| 1/1 | 1/1 | 6.67 | 6.88 |
| 1/1 | 1/1 | 5.04 | 5.11 |
| 1/1 | 1/1 | 5.62 | 5.72 |
| 1/1 | 1/1 | 10.16 | 10.99 |
| 0/1 | 1/1 | 2.97 | 4.04 |
| 1/1 | 1/1 | 3.45 | 4.64 |
| 1/1 | 1/1 | 9.11 | 9.95 |
| 1/1 | 1/1 | 5.84 | 6.76 |
| 1/1 | 1/1 | 7.07 | 8.22 |
| 0/1 | 1/1 | 2.34 | 4.62 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 1/1 | 1/1 | 6.05 | 6.01 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.42 | 3.39 |
| 1/1 | 1/1 | 6.54 | 6.57 |
| 0/1 | 1/1 | 4.58 | 4.64 |
| 1/1 | 1/1 | 5.73 | 5.8 |
| 1/1 | 1/1 | 5.47 | 5.72 |
| 0/1 | 1/1 | 3.88 | 4.25 |
| 0/1 | 1/1 | 3.63 | 4.3 |
| 0/1 | 1/1 | 3.43 | 4.36 |
| 0/1 | 1/1 | 3.6 | 4.36 |
| 0/1 | 1/1 | 3.74 | 5.22 |
| 1/1 | 1/1 | 3.54 | 3.29 |
| 1/1 | 1/1 | 5.96 | 6.06 |
| 1/1 | 1/1 | 5.99 | 6.21 |
| 1/1 | 1/1 | 3.24 | 4.54 |
| 1/1 | 1/1 | 4.82 | 6.38 |
| 1/1 | 1/1 | 4.7 | 6.27 |
| 1/1 | 1/1 | 5.64 | 7.49 |
| 1/1 | 1/1 | 3.83 | 8.1 |
| 1/1 | 1/1 | 2.6 | 7.22 |
| 0/1 | 1/1 | 4.52 | 4.67 |
| 1/1 | 1/1 | 5.1 | 5.51 |
| 0/1 | 1/1 | 5.06 | 6.27 |
| 0/1 | 1/1 | 3.37 | 4.73 |
| 1/1 | 1/1 | 2.91 | 4.27 |
| 0/1 | 1/1 | 4.37 | 5.78 |
| 1/1 | 1/1 | 4.44 | 5.14 |
| 1/1 | 1/1 | 7.26 | 8.01 |
| 0/1 | 1/1 | 3.29 | 4.14 |
| 1/1 | 1/1 | 3.44 | 4.5 |
| 1/1 | 1/1 | 3.02 | 4.13 |
| 1/1 | 1/1 | 5.88 | 7.06 |
| 0/1 | 1/1 | 2.72 | 4.19 |
| 1/1 | 1/1 | 13.24 | 10.54 |
| 1/1 | 1/1 | 13.56 | 10.96 |
| 1/1 | 0/1 | 7.61 | 6.52 |
| 1/1 | 1/1 | 5.54 | 4.75 |
| 1/1 | 1/1 | 3.89 | 4.59 |
| 0/1 | 1/1 | 3.17 | 4.24 |
| 0/1 | 1/1 | 5.75 | 7.64 |
| 1/1 | 1/1 | 7.54 | 9.48 |
| 0/1 | 1/1 | 4.44 | 6.42 |
| 1/1 | 1/1 | 5.52 | 7.73 |
| 0/1 | 1/1 | 4.16 | 6.53 |
| 1/1 | 1/1 | 8.17 | 9.43 |
| 1/1 | 1/1 | 9.08 | 10.36 |
| 1/1 | 1/1 | 4.59 | 5.87 |
| 1/1 | 1/1 | 6.89 | 8.26 |
| 1/1 | 1/1 | 6.41 | 7.81 |
| 1/1 | 1/1 | 6.95 | 8.56 |
| 1/1 | 1/1 | 3.16 | 5.1 |
| 1/1 | 1/1 | 6.48 | 6.46 |
| 1/1 | 1/1 | 3.43 | 3.45 |
| 0/1 | 1/1 | 3.88 | 4.99 |
| 1/1 | 1/1 | 6.89 | 8.29 |
| 0/1 | 1/1 | 6.24 | 7.83 |
| 1/1 | 1/1 | 8.67 | 7.39 |
| 1/1 | 0/1 | 4.19 | 3.3 |
| 1/1 | 0/1 | 5.17 | 4.4 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 8.62 | 8.77 |
| 1/1 | 1/1 | 6.16 | 7.28 |
| 1/1 | 1/1 | 3.72 | 4.96 |
| 0/1 | 1/1 | 3.52 | 4.76 |
| 1/1 | 1/1 | 5.38 | 6.44 |
| 0/1 | 1/1 | 2.65 | 3.83 |
| 0/1 | 1/1 | 6.52 | 7.35 |
| 1/1 | 1/1 | 8.04 | 9.03 |
| 1/1 | 1/1 | 7.52 | 9.65 |
| 1/1 | 1/1 | 7.81 | 7.81 |
| 1/1 | 1/1 | 7.25 | 7.37 |
| 0/1 | 1/1 | 3.18 | 3.37 |
| 1/1 | 1/1 | 6.84 | 7.08 |
| 1/1 | 1/1 | 7.78 | 8.1 |
| 1/1 | 1/1 | 7.67 | 8.58 |
| 1/1 | 1/1 | 6.78 | 7.69 |
| 1/1 | 1/1 | 4.66 | 5.8 |
| 0/1 | 1/1 | 3.4 | 4.61 |
| 1/1 | 1/1 | 3.52 | 4.81 |
| 1/1 | 1/1 | 2.87 | 4.16 |
| 1/1 | 1/1 | 4.85 | 6.49 |
| 0/1 | 1/1 | 2.45 | 4.32 |
| 1/1 | 1/1 | 6.24 | 7 |
| 0/1 | 1/1 | 2.05 | 2.92 |
| 1/1 | 1/1 | 8.08 | 8.96 |
| 1/1 | 1/1 | 7.36 | 8.27 |
| 1/1 | 1/1 | 7.39 | 9.11 |
| 0/1 | 1/1 | 3.72 | 3.69 |
| 1/1 | 1/1 | 4.62 | 4.74 |
| 0/1 | 1/1 | 4.46 | 4.71 |
| 0/1 | 1/1 | 2.89 | 3.58 |
| 1/1 | 1/1 | 3.94 | 5.31 |
| 0/1 | 1/1 | 1.73 | 3.35 |
| 1/1 | 1/1 | 6.08 | 7.85 |
| 1/1 | 1/1 | 6.07 | 7.87 |
| 0/1 | 1/1 | 4.34 | 4.47 |
| 1/1 | 1/1 | 2.98 | 3.16 |
| 1/1 | 1/1 | 7.61 | 7.92 |
| 1/1 | 0/1 | 5.12 | 3.66 |
| 1/1 | 1/1 | 7.47 | 6.14 |
| 1/1 | 0/1 | 3.27 | 2.1 |
| 1/1 | 1/1 | 3.44 | 2.4 |
| 1/1 | 1/1 | 4.58 | 3.63 |
| 1/1 | 1/1 | 3.96 | 3.04 |
| 1/1 | 0/1 | 5.61 | 4.86 |
| 1/1 | 1/1 | 4.66 | 4.5 |
| 1/1 | 1/1 | 6.58 | 6.68 |
| 1/1 | 1/1 | 5.68 | 6.24 |
| 1/1 | 1/1 | 5.45 | 6.12 |
| 1/1 | 1/1 | 5.19 | 6.22 |
| 1/1 | 1/1 | 6.96 | 8.03 |
| 0/1 | 1/1 | 4.66 | 5.43 |
| 0/1 | 1/1 | 2.21 | 3.11 |
| 1/1 | 1/1 | 2.4 | 3.05 |
| 1/1 | 1/1 | 3.5 | 4.18 |
| 0/1 | 1/1 | 2.23 | 2.92 |
| 1/1 | 1/1 | 4.71 | 5.43 |
| 1/1 | 1/1 | 5.12 | 5.84 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.4 | 5.24 |
| 1/1 | 1/1 | 3.11 | 4 |
| 0/1 | 1/1 | 3.38 | 5.13 |
| 0/1 | 1/1 | 3.38 | 5.13 |
| 0/1 | 1/1 | 3.38 | 5.13 |
| 1/1 | 1/1 | 6.11 | 7.88 |
| 1/1 | 1/1 | 6.12 | 7.96 |
| 1/1 | 1/1 | 7.04 | 8.83 |
| 1/1 | 1/1 | 7.14 | 8.94 |
| 1/1 | 1/1 | 6.96 | 8.85 |
| 1/1 | 1/1 | 7.02 | 8.96 |
| 1/1 | 1/1 | 4.84 | 8.21 |
| 1/1 | 0/1 | 4.08 | 3.35 |
| 1/1 | 1/1 | 8.84 | 8.63 |
| 0/1 | 1/1 | 5.04 | 4.96 |
| 0/1 | 1/1 | 6.8 | 6.76 |
| 1/1 | 1/1 | 5.33 | 5.33 |
| 1/1 | 1/1 | 6.37 | 7.01 |
| 1/1 | 1/1 | 7.23 | 8.19 |
| 1/1 | 1/1 | 5.74 | 5.53 |
| 1/1 | 1/1 | 3.99 | 3.8 |
| 1/1 | 1/1 | 12.69 | 12.58 |
| 1/1 | 1/1 | 4.36 | 4.28 |
| 1/1 | 1/1 | 11.77 | 11.71 |
| 1/1 | 1/1 | 8.63 | 8.85 |
| 0/1 | 1/1 | 7.26 | 7.49 |
| 1/1 | 1/1 | 9.85 | 10.18 |
| 1/1 | 1/1 | 8.33 | 8.82 |
| 1/1 | 1/1 | 6.75 | 7.84 |
| 1/1 | 1/1 | 4.26 | 5.67 |
| 1/1 | 1/1 | 3.3 | 5.07 |
| 1/1 | 1/1 | 6.35 | 5.68 |
| 1/1 | 0/1 | 3.35 | 2.69 |
| 1/1 | 1/1 | 9.33 | 8.9 |
| 1/1 | 1/1 | 6.68 | 6.27 |
| 1/1 | 1/1 | 6.12 | 5.72 |
| 1/1 | 1/1 | 7.04 | 6.65 |
| 1/1 | 1/1 | 7.69 | 7.31 |
| 1/1 | 1/1 | 7.13 | 6.79 |
| 1/1 | 1/1 | 5.38 | 5.11 |
| 1/1 | 1/1 | 7.6 | 7.35 |
| 1/1 | 1/1 | 6.37 | 6.12 |
| 1/1 | 1/1 | 4.75 | 4.57 |
| 1/1 | 1/1 | 7.4 | 7.28 |
| 1/1 | 1/1 | 3.67 | 3.58 |
| 1/1 | 1/1 | 4.11 | 4.27 |
| 1/1 | 1/1 | 7.42 | 7.59 |
| 1/1 | 1/1 | 3.6 | 3.78 |
| 1/1 | 1/1 | 3.1 | 3.3 |
| 0/1 | 1/1 | 5.04 | 5.25 |
| 0/1 | 1/1 | 2.65 | 2.87 |
| 0/1 | 1/1 | 2.97 | 3.54 |
| 1/1 | 1/1 | 2.79 | 3.42 |
| 1/1 | 1/1 | 5.59 | 6.28 |
| 1/1 | 1/1 | 5.09 | 6.54 |
| 0/1 | 1/1 | 2.15 | 4.06 |
| 0/1 | 1/1 | 3.49 | 5.5 |
| 1/1 | 1/1 | 7.88 | 7.3 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.09 | 3.62 |
| 1/1 | 1/1 | 3.72 | 3.58 |
| 1/1 | 1/1 | 9.79 | 9.81 |
| 1/1 | 1/1 | 6.64 | 6.69 |
| 1/1 | 1/1 | 8.52 | 8.59 |
| 0/1 | 1/1 | 7.67 | 7.86 |
| 0/1 | 1/1 | 3.59 | 3.99 |
| 1/1 | 1/1 | 4.09 | 5.13 |
| 1/1 | 1/1 | 3.43 | 4.48 |
| 1/1 | 1/1 | 5.8 | 6.9 |
| 0/1 | 1/1 | 4.73 | 6.36 |
| 1/1 | 1/1 | 5.91 | 5.81 |
| 1/1 | 1/1 | 5.14 | 5.04 |
| 1/1 | 1/1 | 9.76 | 9.74 |
| 1/1 | 1/1 | 11.38 | 11.39 |
| 0/1 | 1/1 | 4.29 | 4.32 |
| 0/1 | 1/1 | 6.14 | 6.19 |
| 1/1 | 1/1 | 7.17 | 7.26 |
| 0/1 | 1/1 | 6.86 | 6.98 |
| 0/1 | 1/1 | 6.91 | 7.3 |
| 1/1 | 1/1 | 8.11 | 8.71 |
| 0/1 | 1/1 | 4.97 | 5.83 |
| 0/1 | 1/1 | 4.46 | 5.07 |
| 0/1 | 1/1 | 2.64 | 3.29 |
| 0/1 | 1/1 | 2.12 | 3.09 |
| 0/1 | 1/1 | 2.5 | 3.77 |
| 0/1 | 1/1 | 2.92 | 4.21 |
| 0/1 | 1/1 | 2.92 | 4.3 |
| 0/1 | 1/1 | 3.21 | 4.6 |
| 0/1 | 1/1 | 4.1 | 5.85 |
| 1/1 | 1/1 | 4.27 | 6.14 |
| 1/1 | 1/1 | 10.62 | 10.94 |
| 0/1 | 1/1 | 2.68 | 3.29 |
| 0/1 | 1/1 | 3.08 | 4.15 |
| 1/1 | 1/1 | 5.21 | 6.53 |
| 0/1 | 1/1 | 3.82 | 5.64 |
| 1/1 | 1/1 | 4.25 | 4.53 |
| 0/1 | 1/1 | 2.5 | 2.91 |
| 1/1 | 1/1 | 4.95 | 5.44 |
| 0/1 | 1/1 | 2.13 | 2.65 |
| 0/1 | 1/1 | 3.49 | 4.23 |
| 1/1 | 1/1 | 3.77 | 5.2 |
| 0/1 | 1/1 | 2.6 | 4.21 |
| 1/1 | 1/1 | 7.5 | 7.49 |
| 1/1 | 1/1 | 5.81 | 5.82 |
| 1/1 | 1/1 | 7.57 | 7.61 |
| 1/1 | 1/1 | 7.78 | 7.86 |
| 0/1 | 1/1 | 2.85 | 3.58 |
| 0/1 | 1/1 | 2.33 | 3.17 |
| 1/1 | 1/1 | 7.44 | 8.09 |
| 1/1 | 1/1 | 3.32 | 4.52 |
| 1/1 | 1/1 | 6.39 | 7.65 |
| 0/1 | 1/1 | 6 | 7.1 |
| 1/1 | 1/1 | 5.13 | 6.35 |
| 1/1 | 1/1 | 5.24 | 6.56 |
| 0/1 | 1/1 | 3.36 | 4.93 |
| 1/1 | 1/1 | 6.23 | 6.93 |
| 1/1 | 1/1 | 3.01 | 3.82 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 3.5 | 4.8 |
| 0/1 | 1/1 | 4.5 | 4.97 |
| 1/1 | 1/1 | 3.01 | 3.57 |
| 1/1 | 1/1 | 5.72 | 7.37 |
| 1/1 | 1/1 | 6.21 | 8.01 |
| 0/1 | 1/1 | 3.53 | 5.69 |
| 0/1 | 1/1 | 4.18 | 6.4 |
| 1/1 | 1/1 | 6.33 | 8.58 |
| 0/1 | 1/1 | 2.29 | 6.94 |
| 1/1 | 0/1 | 6.03 | 3.9 |
| 1/1 | 0/1 | 5.98 | 3.88 |
| 1/1 | 1/1 | 8.15 | 6.09 |
| 1/1 | 1/1 | 5.77 | 3.94 |
| 1/1 | 0/1 | 7.99 | 6.23 |
| 1/1 | 1/1 | 7.93 | 6.19 |
| 1/1 | 1/1 | 7.3 | 5.69 |
| 1/1 | 1/1 | 6.85 | 5.28 |
| 1/1 | 0/1 | 4.69 | 3.17 |
| 1/1 | 1/1 | 7.3 | 5.79 |
| 1/1 | 1/1 | 6.83 | 5.37 |
| 1/1 | 0/1 | 6.28 | 4.83 |
| 1/1 | 1/1 | 7.85 | 6.48 |
| 1/1 | 1/1 | 9.16 | 7.81 |
| 1/1 | 1/1 | 7.63 | 6.31 |
| 1/1 | 1/1 | 4.51 | 3.2 |
| 1/1 | 1/1 | 7.68 | 6.39 |
| 1/1 | 0/1 | 5.68 | 4.4 |
| 1/1 | 1/1 | 7.21 | 6.01 |
| 1/1 | 1/1 | 8.45 | 7.3 |
| 1/1 | 1/1 | 6.29 | 5.15 |
| 1/1 | 0/1 | 7.04 | 5.91 |
| 1/1 | 1/1 | 6.28 | 5.22 |
| 1/1 | 1/1 | 7.68 | 6.68 |
| 1/1 | 1/1 | 8.07 | 7.07 |
| 1/1 | 1/1 | 7.55 | 6.56 |
| 1/1 | 1/1 | 8.12 | 7.15 |
| 1/1 | 1/1 | 7.25 | 6.39 |
| 1/1 | 1/1 | 6.73 | 5.9 |
| 1/1 | 0/1 | 8.28 | 7.51 |
| 1/1 | 0/1 | 6.28 | 5.53 |
| 1/1 | 1/1 | 6.24 | 5.5 |
| 1/1 | 1/1 | 5.64 | 4.92 |
| 1/1 | 1/1 | 7.25 | 6.56 |
| 1/1 | 1/1 | 5.19 | 4.52 |
| 1/1 | 1/1 | 5.57 | 4.93 |
| 1/1 | 1/1 | 6.57 | 5.94 |
| 1/1 | 1/1 | 6.12 | 5.51 |
| 1/1 | 1/1 | 7.3 | 6.71 |
| 1/1 | 1/1 | 4.59 | 4.03 |
| 1/1 | 1/1 | 4.74 | 4.17 |
| 1/1 | 1/1 | 6.65 | 6.11 |
| 1/1 | 1/1 | 7.62 | 7.13 |
| 1/1 | 1/1 | 7.11 | 6.68 |
| 1/1 | 1/1 | 6.84 | 6.46 |
| 1/1 | 1/1 | 8.33 | 8.01 |
| 1/1 | 1/1 | 6.78 | 6.51 |
| 1/1 | 1/1 | 7.24 | 6.97 |
| 1/1 | 1/1 | 5.5 | 5.34 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.53 | 7.38 |
| 0/1 | 1/1 | 5.42 | 5.31 |
| 1/1 | 1/1 | 5.78 | 5.69 |
| 1/1 | 1/1 | 7.36 | 7.4 |
| 0/1 | 1/1 | 6.08 | 6.17 |
| 1/1 | 1/1 | 7.04 | 7.23 |
| 1/1 | 1/1 | 6.36 | 6.67 |
| 1/1 | 1/1 | 5.87 | 6.2 |
| 1/1 | 1/1 | 4.93 | 5.77 |
| 1/1 | 1/1 | 6.06 | 7.28 |
| 1/1 | 1/1 | 9.33 | 10.83 |
| 1/1 | 1/1 | 9.39 | 11.54 |
| 1/1 | 1/1 | 4.25 | 8.82 |
| 1/1 | 1/1 | 4.93 | 5.77 |
| 1/1 | 1/1 | 6.06 | 7.28 |
| 1/1 | 1/1 | 9.33 | 10.83 |
| 1/1 | 1/1 | 9.39 | 11.54 |
| 1/1 | 1/1 | 4.25 | 8.82 |
| 1/1 | 1/1 | 3.29 | 4.11 |
| 1/1 | 1/1 | 3.45 | 4.32 |
| 0/1 | 1/1 | 2.64 | 3.91 |
| 1/1 | 1/1 | 12.35 | 12.82 |
| 0/1 | 1/1 | 3.12 | 3.74 |
| 1/1 | 1/1 | 5.43 | 6.18 |
| 1/1 | 1/1 | 6.25 | 7.59 |
| 1/1 | 1/1 | 5.2 | 6.74 |
| 1/1 | 1/1 | 2.95 | 4.32 |
| 1/1 | 1/1 | 4.69 | 6.16 |
| 0/1 | 1/1 | 3.44 | 5.45 |
| 0/1 | 1/1 | 2.13 | 2.85 |
| 0/1 | 1/1 | 3.98 | 5.24 |
| 1/1 | 1/1 | 5.45 | 4.24 |
| 1/1 | 0/1 | 4.23 | 3.03 |
| 1/1 | 1/1 | 4.08 | 3.08 |
| 1/1 | 1/1 | 4.38 | 3.5 |
| 1/1 | 0/1 | 3.34 | 2.53 |
| 1/1 | 0/1 | 4.19 | 3.5 |
| 1/1 | 1/1 | 7.34 | 6.71 |
| 1/1 | 1/1 | 4.16 | 3.56 |
| 0/1 | 1/1 | 3.29 | 3 |
| 1/1 | 1/1 | 4.62 | 4.34 |
| 1/1 | 1/1 | 6.13 | 5.92 |
| 0/1 | 1/1 | 3.74 | 3.61 |
| 1/1 | 1/1 | 5.88 | 5.78 |
| 1/1 | 1/1 | 4.73 | 4.67 |
| 1/1 | 1/1 | 9.56 | 9.51 |
| 0/1 | 1/1 | 3.65 | 3.74 |
| 1/1 | 1/1 | 4.39 | 4.57 |
| 0/1 | 1/1 | 3.04 | 3.27 |
| 1/1 | 1/1 | 7.3 | 8.38 |
| 1/1 | 1/1 | 9.05 | 10.27 |
| 1/1 | 1/1 | 5.37 | 5.89 |
| 1/1 | 1/1 | 5.57 | 6.32 |
| 1/1 | 1/1 | 7.65 | 9 |
| 1/1 | 1/1 | 3.65 | 5.49 |
| 0/1 | 1/1 | 2.65 | 3.77 |
| 1/1 | 1/1 | 3.97 | 5.11 |
| 1/1 | 1/1 | 4.31 | 5.58 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.58 | 4.87 |
| 1/1 | 1/1 | 5.03 | 6.39 |
| 1/1 | 1/1 | 2.93 | 3.53 |
| 1/1 | 1/1 | 4.69 | 5.36 |
| 1/1 | 1/1 | 6.85 | 7.52 |
| 1/1 | 1/1 | 4.67 | 5.59 |
| 1/1 | 1/1 | 8.58 | 5.73 |
| 1/1 | 1/1 | 5.37 | 2.91 |
| 1/1 | 0/1 | 2.26 | 2.28 |
| 1/1 | 1/1 | 3.4 | 3.69 |
| 0/1 | 1/1 | 3.48 | 4.83 |
| 0/1 | 1/1 | 3.15 | 4.52 |
| 0/1 | 1/1 | 2.28 | 3.64 |
| 0/1 | 1/1 | 3.16 | 4.75 |
| 0/1 | 1/1 | 2.12 | 3.73 |
| 0/1 | 1/1 | 3.94 | 5.12 |
| 0/1 | 1/1 | 4.33 | 5.58 |
| 0/1 | 1/1 | 4.5 | 5.82 |
| 0/1 | 1/1 | 2.45 | 4.05 |
| 1/1 | 1/1 | 2.7 | 3.67 |
| 0/1 | 1/1 | 3.33 | 4.72 |
| 1/1 | 1/1 | 4.91 | 5.24 |
| 1/1 | 1/1 | 6.73 | 7.26 |
| 1/1 | 1/1 | 5.72 | 6.39 |
| 1/1 | 1/1 | 4.3 | 4.14 |
| 1/1 | 1/1 | 3.43 | 3.4 |
| 1/1 | 1/1 | 9.74 | 9.82 |
| 1/1 | 1/1 | 7.85 | 7.97 |
| 1/1 | 1/1 | 7.83 | 8.12 |
| 1/1 | 1/1 | 5.28 | 5.7 |
| 0/1 | 1/1 | 2.57 | 3.3 |
| 1/1 | 1/1 | 3.92 | 4.9 |
| 1/1 | 1/1 | 4.01 | 5.16 |
| 0/1 | 1/1 | 3.54 | 6.26 |
| 0/1 | 1/1 | 2.46 | 3.46 |
| 0/1 | 1/1 | 2.33 | 3.88 |
| 0/1 | 1/1 | 1.92 | 2.65 |
| 0/1 | 1/1 | 3.52 | 4.31 |
| 0/1 | 1/1 | 3.67 | 4.92 |
| 1/1 | 1/1 | 2.56 | 4.99 |
| 1/1 | 1/1 | 12.96 | 12.36 |
| 1/1 | 1/1 | 7.94 | 7.72 |
| 1/1 | 1/1 | 4.47 | 4.16 |
| 1/1 | 1/1 | 7.93 | 7.83 |
| 1/1 | 1/1 | 5.01 | 6.32 |
| 0/1 | 1/1 | 4.21 | 5.96 |
| 1/1 | 1/1 | 4.71 | 6.15 |
| 0/1 | 1/1 | 2.64 | 4.8 |
| 0/1 | 1/1 | 3.2 | 5.26 |
| 1/1 | 1/1 | 4.19 | 6.32 |
| 1/1 | 1/1 | 2.87 | 4.01 |
| 0/1 | 1/1 | 2.99 | 4.24 |
| 1/1 | 1/1 | 6 | 7.24 |
| 0/1 | 1/1 | 3.94 | 4.61 |
| 1/1 | 1/1 | 4.8 | 5.51 |
| 0/1 | 1/1 | 2.26 | 2.89 |
| 1/1 | 1/1 | 4.19 | 4.85 |
| 1/1 | 1/1 | 6.14 | 7.37 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.81 | 7.48 |
| 1/1 | 1/1 | 9.77 | 11.06 |
| 0/1 | 1/1 | 4.57 | 6.05 |
| 1/1 | 1/1 | 4.09 | 5.5 |
| 1/1 | 1/1 | 6.68 | 8.1 |
| 1/1 | 1/1 | 7.8 | 7.64 |
| 0/1 | 1/1 | 2.09 | 2.28 |
| 1/1 | 1/1 | 13.3 | 13.5 |
| 1/1 | 1/1 | 7.29 | 7.57 |
| 1/1 | 1/1 | 5.36 | 6.43 |
| 1/1 | 1/1 | 5.74 | 6.86 |
| 0/1 | 1/1 | 3.02 | 4.16 |
| 0/1 | 1/1 | 4.27 | 5.58 |
| 0/1 | 1/1 | 3.9 | 6.36 |
| 0/1 | 1/1 | 4.96 | 7.85 |
| 1/1 | 1/1 | 13.5 | 8.31 |
| 1/1 | 1/1 | 6.65 | 4.23 |
| 1/1 | 1/1 | 3.68 | 3.47 |
| 1/1 | 1/1 | 11.12 | 11.17 |
| 1/1 | 1/1 | 5.72 | 5.81 |
| 0/1 | 1/1 | 2.12 | 3.43 |
| 0/1 | 1/1 | 5.13 | 6.52 |
| 1/1 | 1/1 | 4.43 | 4.29 |
| 0/1 | 1/1 | 4.77 | 4.71 |
| 1/1 | 1/1 | 6.31 | 6.28 |
| 1/1 | 1/1 | 3.57 | 3.57 |
| 0/1 | 1/1 | 6.55 | 6.57 |
| 1/1 | 1/1 | 13.46 | 13.58 |
| 0/1 | 1/1 | 4.61 | 4.76 |
| 1/1 | 1/1 | 6.38 | 6.84 |
| 1/1 | 1/1 | 4.16 | 4.73 |
| 0/1 | 1/1 | 4.34 | 5.07 |
| 0/1 | 1/1 | 3.21 | 3.87 |
| 0/1 | 1/1 | 3.97 | 4.71 |
| 0/1 | 1/1 | 3.59 | 4.38 |
| 0/1 | 1/1 | 3.22 | 4.15 |
| 1/1 | 1/1 | 7.46 | 8.59 |
| 1/1 | 1/1 | 5.13 | 6.36 |
| 0/1 | 1/1 | 5.47 | 6.33 |
| 0/1 | 1/1 | 3.98 | 5.19 |
| 0/1 | 1/1 | 3.29 | 4.5 |
| 1/1 | 1/1 | 5.01 | 6.38 |
| 1/1 | 1/1 | 4.48 | 4.72 |
| 1/1 | 1/1 | 5.75 | 6.48 |
| 1/1 | 1/1 | 5.82 | 6.62 |
| 1/1 | 1/1 | 5.34 | 6.37 |
| 1/1 | 1/1 | 4.36 | 5.82 |
| 1/1 | 1/1 | 4.63 | 5.9 |
| 0/1 | 1/1 | 3.81 | 5.29 |
| 1/1 | 1/1 | 8.05 | 9.9 |
| 1/1 | 1/1 | 6.97 | 8.9 |
| 1/1 | 1/1 | 5.17 | 7.4 |
| 0/1 | 1/1 | 3.4 | 4.73 |
| 0/1 | 1/1 | 2.38 | 4.24 |
| 1/1 | 1/1 | 4.2 | 3.87 |
| 0/1 | 1/1 | 2.23 | 2.28 |
| 1/1 | 1/1 | 9.89 | 10.05 |
| 1/1 | 1/1 | 6.4 | 5.68 |

| | | | |
|-----|-----|------|------|
| 1/1 | 1/1 | 8.46 | 7.88 |
| 0/1 | 1/1 | 2.4 | 3.83 |
| 1/1 | 1/1 | 5.96 | 7.66 |
| 1/1 | 1/1 | 4.94 | 6.68 |
| 1/1 | 1/1 | 5.3 | 7.08 |
| 1/1 | 1/1 | 3.27 | 5.99 |
| 1/1 | 1/1 | 6.3 | 7.21 |
| 0/1 | 1/1 | 4.65 | 5.65 |
| 1/1 | 1/1 | 7.46 | 9.01 |
| 0/1 | 1/1 | 1.9 | 3.63 |
| 0/1 | 1/1 | 2.49 | 3.04 |
| 0/1 | 1/1 | 2.7 | 3.62 |
| 1/1 | 1/1 | 5.53 | 6.71 |
| 0/1 | 1/1 | 2.46 | 3.78 |
| 1/1 | 1/1 | 5.42 | 6.08 |
| 0/1 | 1/1 | 2.71 | 3.43 |
| 1/1 | 1/1 | 3.48 | 4.75 |
| 1/1 | 1/1 | 4.12 | 5.45 |
| 1/1 | 1/1 | 4.93 | 4.23 |
| 1/1 | 1/1 | 3.24 | 2.64 |
| 1/1 | 1/1 | 3.47 | 2.88 |
| 1/1 | 1/1 | 7.3 | 6.76 |
| 1/1 | 0/1 | 2.33 | 1.94 |
| 1/1 | 1/1 | 3.03 | 2.73 |
| 1/1 | 1/1 | 4.07 | 3.87 |
| 0/1 | 1/1 | 2.67 | 2.77 |
| 0/1 | 1/1 | 2.37 | 2.54 |
| 0/1 | 1/1 | 3.92 | 4.09 |
| 1/1 | 1/1 | 6.96 | 7.22 |
| 1/1 | 1/1 | 7.8 | 8.09 |
| 1/1 | 1/1 | 5.14 | 5.47 |
| 1/1 | 1/1 | 3.39 | 3.82 |
| 0/1 | 1/1 | 3.04 | 3.7 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |
| 1/1 | 1/1 | 4.6 | 5.83 |
| 0/1 | 1/1 | 4.12 | 5.76 |
| 1/1 | 1/1 | 4.87 | 6.54 |
| 1/1 | 1/1 | 3.89 | 5.75 |
| 0/1 | 1/1 | 3.52 | 5.77 |
| 1/1 | 1/1 | 6.7 | 7.03 |
| 1/1 | 1/1 | 7.31 | 7.79 |
| 0/1 | 1/1 | 2.55 | 3.12 |
| 0/1 | 1/1 | 2.36 | 3.06 |
| 1/1 | 1/1 | 8.1 | 9.69 |
| 1/1 | 1/1 | 6.54 | 7.69 |
| 1/1 | 1/1 | 5.53 | 6.76 |
| 1/1 | 1/1 | 5.79 | 7.08 |
| 1/1 | 1/1 | 3.2 | 3.04 |
| 1/1 | 1/1 | 5.94 | 5.84 |
| 1/1 | 1/1 | 5.21 | 5.11 |
| 1/1 | 1/1 | 4.85 | 6.22 |
| 1/1 | 1/1 | 5.84 | 7.25 |
| 1/1 | 1/1 | 4.49 | 6.63 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 3.06 | 4.51 |
| 1/1 | 1/1 | 7.99 | 8.49 |
| 1/1 | 1/1 | 5.34 | 5.97 |
| 0/1 | 1/1 | 3.25 | 4.04 |
| 0/1 | 1/1 | 3.34 | 4.07 |
| 1/1 | 1/1 | 3.86 | 4.63 |
| 1/1 | 1/1 | 6.58 | 7.44 |
| 1/1 | 1/1 | 3.01 | 3.91 |
| 0/1 | 1/1 | 2.58 | 3.52 |
| 0/1 | 1/1 | 2.58 | 3.67 |
| 1/1 | 1/1 | 2.8 | 3.72 |
| 0/1 | 1/1 | 2.46 | 3.47 |
| 0/1 | 1/1 | 2.88 | 3.91 |
| 0/1 | 1/1 | 3.53 | 4.51 |
| 1/1 | 1/1 | 5.2 | 6.42 |
| 1/1 | 1/1 | 3.34 | 4.48 |
| 1/1 | 1/1 | 4.69 | 5.88 |
| 0/1 | 1/1 | 6.56 | 7.11 |
| 1/1 | 1/1 | 8.3 | 9.07 |
| 1/1 | 1/1 | 4.7 | 5.43 |
| 1/1 | 1/1 | 4.1 | 4.95 |
| 0/1 | 1/1 | 3.57 | 5.06 |
| 0/1 | 1/1 | 4.02 | 5.26 |
| 1/1 | 1/1 | 4.33 | 5.71 |
| 1/1 | 1/1 | 4.88 | 6.52 |
| 1/1 | 1/1 | 4.96 | 7.12 |
| 1/1 | 1/1 | 3.95 | 5.41 |
| 1/1 | 1/1 | 4.52 | 6.18 |
| 1/1 | 1/1 | 3.49 | 4.03 |
| 1/1 | 1/1 | 6.3 | 6.88 |
| 0/1 | 1/1 | 5.38 | 6.24 |
| 0/1 | 1/1 | 2.98 | 3.72 |
| 0/1 | 1/1 | 2.96 | 4.33 |
| 1/1 | 1/1 | 4.01 | 5.16 |
| 1/1 | 1/1 | 4.9 | 6.21 |
| 0/1 | 1/1 | 3.35 | 3.75 |
| 0/1 | 1/1 | 6.07 | 6.76 |
| 1/1 | 0/1 | 5.76 | 4.16 |
| 1/1 | 1/1 | 8.02 | 6.59 |
| 1/1 | 1/1 | 6.05 | 4.63 |
| 1/1 | 1/1 | 5.64 | 4.68 |
| 1/1 | 1/1 | 7.81 | 6.86 |
| 1/1 | 1/1 | 3.19 | 2.42 |
| 1/1 | 1/1 | 6.91 | 6.37 |
| 1/1 | 1/1 | 3.86 | 3.51 |
| 1/1 | 1/1 | 4.07 | 4.01 |
| 1/1 | 1/1 | 4.23 | 3.67 |
| 1/1 | 1/1 | 8.13 | 7.58 |
| 1/1 | 1/1 | 6.76 | 6.29 |
| 1/1 | 1/1 | 4.74 | 4.35 |
| 1/1 | 1/1 | 6.26 | 5.88 |

| | | | |
|-----|-----|-------|------|
| 1/1 | 0/1 | 2.37 | 2.02 |
| 1/1 | 1/1 | 6.23 | 5.9 |
| 1/1 | 1/1 | 4.75 | 4.52 |
| 1/1 | 1/1 | 7.3 | 7.15 |
| 0/1 | 1/1 | 6.79 | 6.9 |
| 0/1 | 1/1 | 2.27 | 2.47 |
| 0/1 | 1/1 | 2.74 | 2.99 |
| 0/1 | 1/1 | 7.76 | 8.02 |
| 0/1 | 1/1 | 2.59 | 3.02 |
| 1/1 | 1/1 | 7.39 | 6.73 |
| 1/1 | 1/1 | 4.92 | 4.32 |
| 1/1 | 1/1 | 9.01 | 9.03 |
| 1/1 | 1/1 | 5.12 | 5.15 |
| 1/1 | 1/1 | 6.55 | 8.13 |
| 1/1 | 1/1 | 5.65 | 7.37 |
| 0/1 | 1/1 | 3.16 | 3.56 |
| 1/1 | 1/1 | 4.98 | 5.42 |
| 1/1 | 1/1 | 5.62 | 6.5 |
| 1/1 | 1/1 | 4.92 | 6.3 |
| 1/1 | 1/1 | 5.63 | 7.05 |
| 0/1 | 1/1 | 3.87 | 5.58 |
| 1/1 | 0/1 | 6.34 | 3.08 |
| 1/1 | 1/1 | 11.57 | 8.42 |
| 1/1 | 1/1 | 8.47 | 5.66 |
| 1/1 | 1/1 | 7.41 | 5.95 |
| 1/1 | 0/1 | 3.77 | 2.46 |
| 1/1 | 1/1 | 8.5 | 7.68 |
| 1/1 | 1/1 | 5.63 | 5.71 |
| 0/1 | 1/1 | 4.53 | 5.18 |
| 0/1 | 1/1 | 5.14 | 5.82 |
| 1/1 | 1/1 | 5.17 | 6.11 |
| 1/1 | 1/1 | 5.18 | 6.34 |
| 0/1 | 1/1 | 4.48 | 5.67 |
| 0/1 | 1/1 | 2.94 | 4.51 |
| 0/1 | 1/1 | 3.87 | 4.62 |
| 0/1 | 1/1 | 4.27 | 6.24 |
| 1/1 | 1/1 | 6.8 | 6.58 |
| 1/1 | 1/1 | 3.85 | 3.7 |
| 1/1 | 1/1 | 8.99 | 8.9 |
| 1/1 | 1/1 | 5.01 | 5.38 |
| 0/1 | 1/1 | 2.74 | 3.4 |
| 0/1 | 1/1 | 2.68 | 3.81 |
| 0/1 | 1/1 | 4.83 | 6.18 |
| 0/1 | 1/1 | 2.05 | 3.01 |
| 0/1 | 1/1 | 3.05 | 4.83 |
| 1/1 | 0/1 | 5.43 | 2.1 |
| 1/1 | 1/1 | 7.1 | 3.86 |
| 1/1 | 0/1 | 8.25 | 5.09 |
| 1/1 | 1/1 | 8.9 | 6.2 |
| 1/1 | 1/1 | 5.79 | 3.28 |
| 1/1 | 1/1 | 10.68 | 8.32 |
| 1/1 | 1/1 | 6.94 | 6.49 |
| 0/1 | 1/1 | 3.6 | 3.29 |
| 1/1 | 1/1 | 5.19 | 4.94 |
| 1/1 | 1/1 | 4.88 | 4.7 |
| 1/1 | 1/1 | 8.19 | 8.24 |
| 1/1 | 1/1 | 5.36 | 5.46 |
| 1/1 | 1/1 | 6.35 | 6.6 |

| | | | |
|-----|-----|------|------|
| 0/1 | 1/1 | 2.96 | 3.68 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 2.39 | 2.71 |
| 0/1 | 1/1 | 2.69 | 3.17 |
| 1/1 | 1/1 | 4.8 | 6.77 |
| 1/1 | 1/1 | 4.12 | 6.21 |
| 1/1 | 1/1 | 4.27 | 6.67 |
| 1/1 | 1/1 | 4.03 | 5.11 |
| 1/1 | 1/1 | 6.17 | 7.42 |
| 1/1 | 1/1 | 5.08 | 6.4 |
| 1/1 | 1/1 | 6.1 | 7.67 |
| 0/1 | 1/1 | 3.33 | 4.62 |
| 0/1 | 1/1 | 2.87 | 4.3 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 2.39 | 2.71 |
| 0/1 | 1/1 | 2.69 | 3.17 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 2.39 | 2.71 |
| 0/1 | 1/1 | 2.69 | 3.17 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 2.39 | 2.71 |
| 0/1 | 1/1 | 2.69 | 3.17 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 3.01 | 4.93 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 0/1 | 1/1 | 4.79 | 6.73 |
| 1/1 | 1/1 | 4.26 | 6.79 |
| 1/1 | 1/1 | 3.79 | 3.68 |
| 1/1 | 1/1 | 8.25 | 8.35 |
| 1/1 | 1/1 | 3.14 | 3.5 |
| 1/1 | 1/1 | 8.9 | 9.71 |
| 0/1 | 1/1 | 4.28 | 4.27 |
| 0/1 | 1/1 | 5.03 | 5.28 |
| 1/1 | 1/1 | 5.1 | 6.28 |
| 0/1 | 1/1 | 3.67 | 4.91 |
| 1/1 | 1/1 | 5.64 | 6.5 |
| 0/1 | 1/1 | 5.68 | 6.58 |
| 1/1 | 1/1 | 2.98 | 3.92 |
| 0/1 | 1/1 | 2.29 | 3.44 |
| 1/1 | 1/1 | 4.57 | 5.39 |
| 0/1 | 1/1 | 2.56 | 3.9 |
| 0/1 | 1/1 | 4.35 | 4.6 |
| 1/1 | 1/1 | 8.19 | 9.58 |
| 0/1 | 1/1 | 3.31 | 4.55 |
| 1/1 | 1/1 | 4.4 | 5.88 |
| 1/1 | 1/1 | 4.54 | 6.05 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.19 | 5.17 |
| 0/1 | 1/1 | 9.85 | 10.97 |
| 1/1 | 1/1 | 2.9 | 4.15 |
| 1/1 | 1/1 | 7.07 | 5.7 |
| 1/1 | 1/1 | 5.82 | 5.46 |
| 1/1 | 1/1 | 6.76 | 6.82 |
| 1/1 | 1/1 | 9.34 | 9.35 |
| 1/1 | 1/1 | 3.85 | 3.93 |
| 1/1 | 1/1 | 5.06 | 3.22 |
| 1/1 | 1/1 | 8.18 | 6.53 |
| 1/1 | 1/1 | 5.86 | 4.59 |
| 1/1 | 0/1 | 3.28 | 2.23 |
| 1/1 | 1/1 | 4.46 | 3.55 |
| 1/1 | 1/1 | 6.22 | 5.69 |
| 0/1 | 1/1 | 4.21 | 3.88 |
| 1/1 | 1/1 | 7.22 | 6.97 |
| 0/1 | 1/1 | 4.69 | 5.64 |
| 1/1 | 1/1 | 7.77 | 8.78 |
| 0/1 | 1/1 | 3.37 | 4.46 |
| 0/1 | 1/1 | 4.72 | 5.97 |
| 0/1 | 1/1 | 2.54 | 4.29 |
| 0/1 | 1/1 | 3.5 | 5.84 |
| 0/1 | 1/1 | 2.79 | 6.25 |
| 1/1 | 1/1 | 4.45 | 5.33 |
| 1/1 | 1/1 | 3.62 | 5.02 |
| 1/1 | 1/1 | 9.33 | 10.83 |
| 1/1 | 1/1 | 6.1 | 8.08 |
| 1/1 | 1/1 | 8.76 | 10.97 |
| 1/1 | 1/1 | 4.25 | 8.82 |
| 1/1 | 1/1 | 4.87 | 6 |
| 0/1 | 1/1 | 3.31 | 5.12 |
| 1/1 | 1/1 | 7.53 | 9.29 |
| 0/1 | 1/1 | 2.95 | 4.84 |
| 0/1 | 1/1 | 3.83 | 7 |
| 1/1 | 1/1 | 8.71 | 8.02 |
| 1/1 | 0/1 | 7.92 | 7.38 |
| 1/1 | 1/1 | 9.09 | 8.59 |
| 1/1 | 1/1 | 9.41 | 9.32 |
| 1/1 | 1/1 | 13.31 | 13.46 |
| 1/1 | 1/1 | 5.05 | 6.28 |
| 0/1 | 1/1 | 3.09 | 5.04 |
| 0/1 | 1/1 | 5.17 | 5.7 |
| 1/1 | 1/1 | 5.05 | 5.67 |
| 1/1 | 1/1 | 4.98 | 5.97 |
| 1/1 | 1/1 | 4.59 | 5.34 |
| 1/1 | 1/1 | 4.55 | 5.32 |
| 1/1 | 1/1 | 3.56 | 4.34 |
| 0/1 | 1/1 | 3.12 | 4.49 |
| 0/1 | 1/1 | 1.96 | 2.35 |
| 0/1 | 1/1 | 1.93 | 2.44 |
| 1/1 | 1/1 | 4.46 | 5.05 |
| 1/1 | 1/1 | 7.61 | 7.45 |
| 1/1 | 1/1 | 8.17 | 8.08 |
| 1/1 | 1/1 | 10.92 | 11.18 |
| 0/1 | 1/1 | 2.56 | 3.2 |
| 1/1 | 1/1 | 7.4 | 8.71 |
| 1/1 | 1/1 | 4.99 | 6.76 |
| 1/1 | 1/1 | 3.23 | 5.11 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 3.68 | 4.49 |
| 1/1 | 1/1 | 5.29 | 6.19 |
| 1/1 | 1/1 | 8.85 | 8.36 |
| 1/1 | 1/1 | 7.75 | 7.46 |
| 1/1 | 1/1 | 8.25 | 8.06 |
| 1/1 | 1/1 | 4.52 | 5.49 |
| 0/1 | 1/1 | 3.14 | 4.73 |
| 0/1 | 1/1 | 2.82 | 3.83 |
| 1/1 | 1/1 | 2.62 | 3.69 |
| 1/1 | 1/1 | 5.15 | 6.2 |
| 1/1 | 1/1 | 3.99 | 5.43 |
| 0/1 | 1/1 | 3.65 | 5.37 |
| 1/1 | 1/1 | 4.44 | 5.24 |
| 1/1 | 1/1 | 5.15 | 6.29 |
| 1/1 | 1/1 | 3.97 | 5.06 |
| 0/1 | 1/1 | 4.38 | 5.82 |
| 0/1 | 1/1 | 4.14 | 4.7 |
| 0/1 | 1/1 | 2.82 | 4.14 |
| 0/1 | 1/1 | 3 | 4.91 |
| 1/1 | 1/1 | 3.46 | 5.92 |
| 1/1 | 1/1 | 5.44 | 8.76 |
| 1/1 | 1/1 | 5.03 | 8.71 |
| 1/1 | 1/1 | 6.29 | 7.32 |
| 1/1 | 1/1 | 7.21 | 8.41 |
| 0/1 | 1/1 | 3.76 | 4.69 |
| 1/1 | 1/1 | 3.86 | 4.84 |
| 0/1 | 1/1 | 3.44 | 5.05 |
| 1/1 | 1/1 | 4.77 | 5.66 |
| 1/1 | 1/1 | 6.14 | 7.06 |
| 1/1 | 1/1 | 3.48 | 4.4 |
| 1/1 | 1/1 | 4.43 | 5.51 |
| 1/1 | 1/1 | 3.89 | 5.05 |
| 1/1 | 1/1 | 4.37 | 5.71 |
| 1/1 | 1/1 | 4.51 | 6.01 |
| 0/1 | 1/1 | 3.99 | 5.61 |
| 0/1 | 1/1 | 2.14 | 4.82 |
| 1/1 | 1/1 | 4.69 | 5.83 |
| 1/1 | 1/1 | 5.45 | 7.16 |
| 1/1 | 1/1 | 3.25 | 5.56 |
| 0/1 | 1/1 | 3.92 | 5.47 |
| 0/1 | 1/1 | 2.06 | 3.68 |
| 1/1 | 1/1 | 3.76 | 4.38 |
| 0/1 | 1/1 | 2.79 | 3.51 |
| 1/1 | 1/1 | 6.82 | 7.61 |
| 1/1 | 1/1 | 9.77 | 11.06 |
| 0/1 | 1/1 | 3.54 | 4.32 |
| 1/1 | 1/1 | 6.83 | 7.76 |
| 0/1 | 1/1 | 7.02 | 6.98 |
| 1/1 | 1/1 | 6.17 | 6.61 |
| 0/1 | 1/1 | 3.95 | 4.72 |
| 0/1 | 1/1 | 4.07 | 5.06 |
| 1/1 | 1/1 | 7.65 | 6.4 |
| 1/1 | 1/1 | 9.37 | 8.29 |
| 1/1 | 1/1 | 10.67 | 9.89 |
| 1/1 | 1/1 | 5.55 | 4.88 |
| 0/1 | 1/1 | 2 | 3.46 |
| 1/1 | 1/1 | 3.99 | 5.58 |
| 0/1 | 1/1 | 5.56 | 6.77 |

| | | | |
|-----|-----|-------|-------|
| 0/1 | 1/1 | 4.38 | 5.64 |
| 0/1 | 1/1 | 4.23 | 5.27 |
| 0/1 | 1/1 | 2.34 | 6.05 |
| 1/1 | 1/1 | 7.99 | 8.82 |
| 1/1 | 1/1 | 5.66 | 6.64 |
| 1/1 | 1/1 | 4.83 | 3.76 |
| 1/1 | 1/1 | 6.99 | 5.93 |
| 1/1 | 1/1 | 4.06 | 3.03 |
| 1/1 | 0/1 | 2.92 | 2.01 |
| 1/1 | 1/1 | 3.73 | 3.02 |
| 1/1 | 1/1 | 2.47 | 2.51 |
| 1/1 | 1/1 | 12.67 | 12.84 |
| 1/1 | 1/1 | 7.37 | 7.85 |
| 1/1 | 1/1 | 8.19 | 7.13 |
| 1/1 | 1/1 | 10.06 | 9.07 |
| 1/1 | 1/1 | 4.51 | 3.66 |
| 1/1 | 1/1 | 4.82 | 4.02 |
| 1/1 | 1/1 | 7.72 | 6.94 |
| 1/1 | 1/1 | 3.23 | 2.49 |
| 1/1 | 1/1 | 3.71 | 3.05 |
| 1/1 | 1/1 | 4.44 | 3.98 |
| 1/1 | 1/1 | 7.27 | 6.85 |
| 1/1 | 1/1 | 7.65 | 7.39 |
| 1/1 | 1/1 | 6.86 | 6.77 |
| 1/1 | 1/1 | 4.71 | 5.18 |
| 1/1 | 1/1 | 3.14 | 3.65 |
| 0/1 | 1/1 | 2.24 | 2.77 |
| 1/1 | 1/1 | 9.37 | 7.73 |
| 1/1 | 0/1 | 3.4 | 2.02 |
| 1/1 | 1/1 | 12.27 | 11 |
| 1/1 | 1/1 | 12.94 | 11.74 |
| 1/1 | 1/1 | 13.03 | 12.13 |
| 0/1 | 1/1 | 2.39 | 2.71 |
| 0/1 | 1/1 | 2.69 | 3.17 |
| 1/1 | 1/1 | 6.83 | 7.87 |
| 0/1 | 1/1 | 2.02 | 3.27 |
| 0/1 | 1/1 | 3.07 | 4.37 |
| 1/1 | 1/1 | 2.74 | 4.87 |
| 1/1 | 1/1 | 5.02 | 7.72 |
| 1/1 | 1/1 | 5.75 | 5.09 |
| 0/1 | 1/1 | 2.61 | 2.62 |
| 1/1 | 1/1 | 8.63 | 8.77 |
| 0/1 | 1/1 | 2.73 | 3.96 |
| 1/1 | 1/1 | 3.26 | 4.57 |
| 0/1 | 1/1 | 3.1 | 5.14 |
| 1/1 | 1/1 | 4.92 | 5.79 |
| 0/1 | 1/1 | 2.84 | 4.39 |
| 0/1 | 1/1 | 4.75 | 5.84 |
| 1/1 | 1/1 | 2.97 | 4.41 |
| 0/1 | 1/1 | 3.82 | 4.84 |
| 0/1 | 1/1 | 4.75 | 6.17 |
| 0/1 | 1/1 | 4.38 | 5.84 |
| 1/1 | 1/1 | 5.14 | 7.08 |
| 1/1 | 1/1 | 5.76 | 8.34 |
| 1/1 | 1/1 | 3.91 | 4.7 |
| 1/1 | 1/1 | 3.81 | 4.89 |
| 1/1 | 1/1 | 4.24 | 4.57 |
| 0/1 | 1/1 | 3.84 | 4.38 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 3.91 | 4.71 |
| 1/1 | 1/1 | 6.29 | 8.2 |
| 1/1 | 1/1 | 3.92 | 7.01 |
| 0/1 | 1/1 | 2.05 | 3.16 |
| 0/1 | 1/1 | 2.63 | 4.06 |
| 0/1 | 1/1 | 4.88 | 5.96 |
| 1/1 | 1/1 | 4.62 | 6.41 |
| 0/1 | 1/1 | 5.04 | 6.09 |
| 0/1 | 1/1 | 3.45 | 4.57 |
| 1/1 | 1/1 | 7.96 | 7.23 |
| 1/1 | 1/1 | 10.01 | 9.58 |
| 1/1 | 1/1 | 5.3 | 6.45 |
| 1/1 | 1/1 | 4.11 | 5.38 |
| 0/1 | 1/1 | 3.58 | 4.86 |
| 0/1 | 1/1 | 2.78 | 2.68 |
| 0/1 | 1/1 | 2.77 | 2.79 |
| 1/1 | 1/1 | 3.28 | 3.32 |
| 1/1 | 1/1 | 5.31 | 5.36 |
| 1/1 | 1/1 | 3.28 | 3.36 |
| 1/1 | 1/1 | 5.08 | 5.19 |
| 0/1 | 1/1 | 2.12 | 2.9 |
| 1/1 | 1/1 | 4.52 | 6.16 |
| 0/1 | 1/1 | 4.73 | 6.58 |
| 0/1 | 1/1 | 3.38 | 5.66 |
| 1/1 | 1/1 | 5.99 | 5.85 |
| 0/1 | 1/1 | 2.58 | 3.84 |
| 1/1 | 1/1 | 5.16 | 4.57 |
| 1/1 | 1/1 | 11.8 | 11.76 |
| 1/1 | 1/1 | 10.34 | 10.33 |
| 1/1 | 1/1 | 9.44 | 7.25 |
| 1/1 | 1/1 | 8.33 | 7.01 |
| 1/1 | 1/1 | 8.88 | 8.55 |
| 1/1 | 1/1 | 7.55 | 7.41 |
| 0/1 | 1/1 | 10.54 | 10.8 |
| 1/1 | 1/1 | 3.63 | 3.98 |
| 1/1 | 1/1 | 7.68 | 8.03 |
| 0/1 | 1/1 | 5.7 | 6.29 |
| 0/1 | 1/1 | 6.72 | 7.37 |
| 1/1 | 1/1 | 8.08 | 8.85 |
| 1/1 | 1/1 | 8.02 | 8.81 |
| 1/1 | 1/1 | 7.59 | 8.5 |
| 0/1 | 1/1 | 3.32 | 4.65 |
| 0/1 | 1/1 | 3.93 | 5.48 |
| 1/1 | 1/1 | 3.94 | 5.39 |
| 1/1 | 1/1 | 4.76 | 6.64 |
| 1/1 | 1/1 | 3.88 | 5.37 |
| 0/1 | 1/1 | 3.02 | 4.99 |
| 1/1 | 1/1 | 4.59 | 5.86 |
| 0/1 | 1/1 | 4.32 | 5.76 |
| 1/1 | 1/1 | 3.97 | 5.97 |
| 0/1 | 1/1 | 2.74 | 5.24 |
| 0/1 | 1/1 | 3.82 | 5.09 |
| 0/1 | 1/1 | 2.44 | 4.06 |
| 0/1 | 1/1 | 4.38 | 6.01 |
| 1/1 | 1/1 | 6.13 | 7.65 |
| 1/1 | 1/1 | 5.33 | 7.4 |
| 1/1 | 1/1 | 5.03 | 6.79 |
| 1/1 | 1/1 | 4.18 | 5.95 |

| | | | |
|-----|-----|------|-------|
| 1/1 | 1/1 | 2.89 | 4.85 |
| 1/1 | 0/1 | 5.01 | 3.77 |
| 0/1 | 1/1 | 2.97 | 3.26 |
| 1/1 | 1/1 | 3.77 | 4.53 |
| 1/1 | 1/1 | 2.84 | 3.68 |
| 1/1 | 1/1 | 4.46 | 5.38 |
| 1/1 | 1/1 | 9.33 | 10.83 |
| 1/1 | 1/1 | 6.27 | 8.02 |
| 1/1 | 1/1 | 9.39 | 11.54 |
| 1/1 | 1/1 | 3.41 | 4.15 |
| 0/1 | 1/1 | 4.34 | 5.17 |
| 0/1 | 1/1 | 4.65 | 6.04 |
| 1/1 | 1/1 | 5.39 | 7.28 |
| 0/1 | 1/1 | 3.71 | 5.61 |
| 1/1 | 1/1 | 3.08 | 3.66 |
| 0/1 | 1/1 | 2.11 | 2.85 |
| 0/1 | 1/1 | 2.2 | 2.85 |
| 0/1 | 1/1 | 4.45 | 5.16 |
| 1/1 | 1/1 | 4.85 | 6.51 |
| 0/1 | 1/1 | 2.78 | 4.52 |
| 1/1 | 1/1 | 4.65 | 6.49 |
| 1/1 | 1/1 | 4.34 | 5.87 |
| 1/1 | 1/1 | 6.23 | 8.17 |
| 0/1 | 1/1 | 2.92 | 5.69 |
| 1/1 | 1/1 | 4.23 | 5.23 |
| 1/1 | 1/1 | 4.65 | 6.2 |
| 1/1 | 1/1 | 7.07 | 8.13 |
| 0/1 | 1/1 | 1.74 | 2.84 |
| 0/1 | 1/1 | 2.66 | 4.79 |
| 0/1 | 1/1 | 4.74 | 6.27 |
| 1/1 | 1/1 | 4.1 | 5.79 |
| 0/1 | 1/1 | 3.82 | 5.58 |
| 1/1 | 1/1 | 4.07 | 4.66 |
| 1/1 | 1/1 | 2.84 | 3.77 |
| 1/1 | 1/1 | 6.32 | 5.91 |
| 1/1 | 1/1 | 8.63 | 8.57 |
| 1/1 | 1/1 | 4.07 | 5.7 |
| 0/1 | 1/1 | 2.24 | 4.45 |
| 1/1 | 0/1 | 2.8 | 2.28 |
| 1/1 | 1/1 | 7.13 | 6.86 |
| 0/1 | 1/1 | 2.78 | 3.53 |
| 0/1 | 1/1 | 2.99 | 4.42 |
| 0/1 | 1/1 | 7.1 | 7.16 |
| 1/1 | 1/1 | 6.48 | 6.82 |
| 0/1 | 1/1 | 3.7 | 4.07 |
| 1/1 | 1/1 | 4.93 | 5.47 |
| 1/1 | 1/1 | 7.58 | 7.84 |
| 1/1 | 1/1 | 7.61 | 7.97 |
| 1/1 | 1/1 | 4.79 | 5.43 |
| 1/1 | 1/1 | 4.59 | 5.27 |
| 1/1 | 1/1 | 6.79 | 7.54 |
| 1/1 | 1/1 | 5.15 | 5.9 |
| 1/1 | 1/1 | 2.81 | 3.74 |
| 1/1 | 1/1 | 5.45 | 6.49 |
| 1/1 | 1/1 | 4.33 | 6.09 |
| 0/1 | 1/1 | 3.96 | 6.32 |
| 0/1 | 1/1 | 3.14 | 4.77 |
| 0/1 | 1/1 | 4.49 | 6.19 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 4.44 | 6.32 |
| 0/1 | 1/1 | 3.26 | 5.72 |
| 1/1 | 1/1 | 4.2 | 3.79 |
| 1/1 | 1/1 | 3.23 | 2.84 |
| 1/1 | 1/1 | 9.53 | 9.6 |
| 0/1 | 1/1 | 3.16 | 3.36 |
| 1/1 | 1/1 | 3.71 | 4.98 |
| 0/1 | 1/1 | 2.91 | 5.14 |
| 1/1 | 1/1 | 5.08 | 5.4 |
| 0/1 | 1/1 | 3.05 | 3.39 |
| 1/1 | 1/1 | 3.73 | 4.18 |
| 0/1 | 1/1 | 2.31 | 3.45 |
| 0/1 | 1/1 | 2.54 | 3.91 |
| 1/1 | 0/1 | 7.37 | 5.35 |
| 1/1 | 1/1 | 5.35 | 3.34 |
| 1/1 | 0/1 | 4.42 | 2.71 |
| 1/1 | 0/1 | 4.15 | 2.49 |
| 1/1 | 1/1 | 6.56 | 4.93 |
| 1/1 | 0/1 | 4.54 | 2.95 |
| 1/1 | 0/1 | 5.24 | 3.77 |
| 1/1 | 1/1 | 6.03 | 4.64 |
| 1/1 | 1/1 | 5.18 | 4.19 |
| 1/1 | 1/1 | 5.7 | 4.96 |
| 1/1 | 1/1 | 8.32 | 7.77 |
| 0/1 | 1/1 | 3.93 | 3.42 |
| 1/1 | 0/1 | 4.19 | 3.78 |
| 1/1 | 0/1 | 3.31 | 2.94 |
| 1/1 | 1/1 | 5.14 | 4.79 |
| 1/1 | 1/1 | 11.71 | 11.42 |
| 1/1 | 1/1 | 5.06 | 4.83 |
| 1/1 | 1/1 | 4.41 | 4.18 |
| 1/1 | 1/1 | 12.9 | 12.74 |
| 1/1 | 1/1 | 11.59 | 11.47 |
| 1/1 | 1/1 | 3.51 | 3.39 |
| 1/1 | 1/1 | 8.41 | 8.39 |
| 1/1 | 1/1 | 11.43 | 11.43 |
| 1/1 | 1/1 | 3.24 | 3.27 |
| 0/1 | 1/1 | 4.33 | 4.71 |
| 1/1 | 1/1 | 5.01 | 6.69 |
| 1/1 | 1/1 | 5.21 | 6.92 |
| 1/1 | 1/1 | 4.42 | 5.99 |
| 1/1 | 1/1 | 5.73 | 7.49 |
| 1/1 | 1/1 | 6.61 | 7.78 |
| 1/1 | 1/1 | 6.95 | 8.32 |
| 1/1 | 1/1 | 7.37 | 8.78 |
| 1/1 | 1/1 | 8.66 | 9.9 |
| 0/1 | 1/1 | 3.47 | 4.75 |
| 1/1 | 1/1 | 6.75 | 8.19 |
| 1/1 | 1/1 | 5.82 | 7.34 |
| 0/1 | 1/1 | 2.5 | 5.02 |
| 0/1 | 1/1 | 2.78 | 3.08 |
| 0/1 | 1/1 | 5.68 | 6.41 |
| 0/1 | 1/1 | 2.91 | 4.14 |
| 0/1 | 1/1 | 3.81 | 5.88 |
| 0/1 | 1/1 | 3.61 | 5 |
| 0/1 | 1/1 | 2.09 | 3.77 |
| 0/1 | 1/1 | 2.76 | 5.33 |
| 1/1 | 1/1 | 5.67 | 6.65 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.35 | 7.55 |
| 0/1 | 1/1 | 3.53 | 5.69 |
| 1/1 | 1/1 | 4.66 | 6.08 |
| 0/1 | 1/1 | 4.12 | 5.77 |
| 0/1 | 1/1 | 2.57 | 4.4 |
| 0/1 | 1/1 | 2.45 | 4.52 |
| 1/1 | 1/1 | 4.82 | 3.77 |
| 1/1 | 1/1 | 8.02 | 6.98 |
| 1/1 | 1/1 | 6.87 | 6.07 |
| 1/1 | 1/1 | 5.94 | 5.86 |
| 1/1 | 1/1 | 5.94 | 5.93 |
| 1/1 | 1/1 | 6.55 | 6.65 |
| 0/1 | 1/1 | 7.36 | 7.65 |
| 0/1 | 1/1 | 3.53 | 3.85 |
| 0/1 | 1/1 | 2.64 | 4.35 |
| 1/1 | 1/1 | 3.6 | 5.4 |
| 1/1 | 1/1 | 7.96 | 7.88 |
| 1/1 | 1/1 | 5.52 | 5.43 |
| 0/1 | 1/1 | 2.35 | 2.54 |
| 0/1 | 1/1 | 3.31 | 3.51 |
| 1/1 | 1/1 | 8.01 | 8.29 |
| 1/1 | 1/1 | 7.08 | 7.47 |
| 1/1 | 1/1 | 6.62 | 6.47 |
| 1/1 | 1/1 | 8.81 | 8.99 |
| 0/1 | 1/1 | 3.9 | 4.3 |
| 1/1 | 0/1 | 5.45 | 3.62 |
| 1/1 | 1/1 | 6.65 | 5.32 |
| 1/1 | 1/1 | 6.44 | 5.23 |
| 1/1 | 1/1 | 9.6 | 8.7 |
| 1/1 | 1/1 | 6.43 | 5.79 |
| 1/1 | 1/1 | 4.09 | 3.7 |
| 1/1 | 1/1 | 6.78 | 6.51 |
| 1/1 | 1/1 | 5.46 | 5.21 |
| 1/1 | 1/1 | 5.11 | 5.08 |
| 0/1 | 1/1 | 2.78 | 3.04 |
| 0/1 | 1/1 | 3.82 | 4.21 |
| 1/1 | 1/1 | 11.91 | 11.98 |
| 1/1 | 1/1 | 4.55 | 4.88 |
| 1/1 | 1/1 | 4.09 | 5.37 |
| 1/1 | 1/1 | 3.17 | 4.95 |
| 1/1 | 1/1 | 7.54 | 8.12 |
| 0/1 | 1/1 | 4.82 | 5.9 |
| 1/1 | 1/1 | 6.55 | 7.08 |
| 0/1 | 1/1 | 3.64 | 4.35 |
| 0/1 | 1/1 | 3.56 | 4.88 |
| 0/1 | 1/1 | 5.3 | 6.69 |
| 1/1 | 1/1 | 9.02 | 9.3 |
| 1/1 | 1/1 | 6.16 | 7.16 |
| 0/1 | 1/1 | 2 | 2.32 |
| 0/1 | 1/1 | 2.26 | 2.84 |
| 1/1 | 1/1 | 5.17 | 7.03 |
| 0/1 | 1/1 | 3.58 | 5.77 |
| 1/1 | 1/1 | 9.27 | 7.31 |
| 1/1 | 0/1 | 4.12 | 2.81 |
| 1/1 | 1/1 | 8.14 | 6.96 |
| 1/1 | 1/1 | 5.94 | 5.51 |
| 1/1 | 1/1 | 8.76 | 8.38 |
| 1/1 | 1/1 | 4.61 | 4.47 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 6.81 | 7.48 |
| 1/1 | 1/1 | 9.61 | 10.84 |
| 1/1 | 1/1 | 6.81 | 7.48 |
| 1/1 | 1/1 | 9.61 | 10.84 |
| 0/1 | 1/1 | 3.61 | 5.67 |
| 1/1 | 1/1 | 4.2 | 6.29 |
| 1/1 | 1/1 | 8.81 | 10.34 |
| 1/1 | 1/1 | 7.05 | 9.01 |
| 1/1 | 1/1 | 4.76 | 7.29 |
| 0/1 | 1/1 | 2.84 | 6.16 |
| 0/1 | 1/1 | 3.31 | 4.97 |
| 0/1 | 1/1 | 3.27 | 4.99 |
| 0/1 | 1/1 | 2.74 | 4.04 |
| 1/1 | 1/1 | 6.09 | 7.52 |
| 1/1 | 1/1 | 9.33 | 10.83 |
| 1/1 | 1/1 | 6.27 | 8.02 |
| 1/1 | 1/1 | 9.39 | 11.54 |
| 1/1 | 1/1 | 4.62 | 6.3 |
| 0/1 | 1/1 | 1.85 | 4.13 |
| 1/1 | 1/1 | 6.54 | 5.77 |
| 1/1 | 0/1 | 2.45 | 2.13 |
| 1/1 | 1/1 | 9.06 | 8.95 |
| 0/1 | 1/1 | 4.13 | 4.13 |
| 1/1 | 1/1 | 10.18 | 10.34 |
| 1/1 | 1/1 | 6.11 | 6.39 |
| 0/1 | 1/1 | 7.51 | 7.79 |
| 1/1 | 1/1 | 2.59 | 2.89 |
| 1/1 | 1/1 | 5.84 | 8.11 |
| 1/1 | 1/1 | 5.22 | 8.46 |
| 0/1 | 1/1 | 2.82 | 8.13 |
| 1/1 | 1/1 | 5.08 | 6.54 |
| 0/1 | 1/1 | 4.51 | 6.26 |
| 1/1 | 1/1 | 4.84 | 6.07 |
| 0/1 | 1/1 | 4.13 | 6.13 |
| 0/1 | 1/1 | 3.96 | 6.82 |
| 0/1 | 1/1 | 3.39 | 4.09 |
| 0/1 | 1/1 | 2.56 | 3.4 |
| 0/1 | 1/1 | 2.18 | 4 |
| 1/1 | 1/1 | 4.17 | 7.29 |
| 0/1 | 1/1 | 3.35 | 4.94 |
| 1/1 | 1/1 | 5.86 | 7.76 |
| 0/1 | 1/1 | 4.9 | 6.92 |
| 0/1 | 1/1 | 3.84 | 5.95 |
| 0/1 | 1/1 | 4.83 | 7.12 |
| 1/1 | 1/1 | 7.32 | 6.62 |
| 1/1 | 1/1 | 6.83 | 6.52 |
| 1/1 | 1/1 | 8.85 | 8.78 |
| 1/1 | 1/1 | 5.31 | 5.62 |
| 1/1 | 1/1 | 6.09 | 6.48 |
| 1/1 | 0/1 | 4.23 | 3.32 |
| 1/1 | 1/1 | 7.85 | 7.2 |
| 1/1 | 1/1 | 9.77 | 11.06 |
| 1/1 | 1/1 | 7.57 | 8.98 |
| 0/1 | 1/1 | 4.57 | 6.05 |
| 1/1 | 0/1 | 8.77 | 6.99 |
| 1/1 | 1/1 | 8.6 | 7.99 |
| 1/1 | 0/1 | 5.58 | 5.01 |
| 1/1 | 1/1 | 6.89 | 6.53 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 10.67 | 10.4 |
| 1/1 | 1/1 | 8.39 | 7.88 |
| 1/1 | 1/1 | 10.82 | 10.66 |
| 1/1 | 1/1 | 3.31 | 3.36 |
| 1/1 | 1/1 | 5.17 | 4.12 |
| 1/1 | 0/1 | 2.99 | 2 |
| 1/1 | 1/1 | 7.45 | 6.5 |
| 1/1 | 1/1 | 4.65 | 3.77 |
| 1/1 | 1/1 | 6.45 | 5.74 |
| 1/1 | 1/1 | 9.87 | 9.18 |
| 0/1 | 1/1 | 3.29 | 2.92 |
| 0/1 | 1/1 | 3.94 | 3.81 |
| 1/1 | 1/1 | 6.8 | 6.79 |
| 1/1 | 1/1 | 7.48 | 7.5 |
| 1/1 | 1/1 | 6.31 | 6.45 |
| 1/1 | 1/1 | 2.56 | 2.72 |
| 0/1 | 1/1 | 7.19 | 7.38 |
| 0/1 | 1/1 | 2.43 | 2.66 |
| 0/1 | 1/1 | 2.51 | 2.85 |
| 1/1 | 1/1 | 6.37 | 6.73 |
| 0/1 | 1/1 | 4.4 | 5.41 |
| 1/1 | 1/1 | 5.42 | 6.85 |
| 0/1 | 1/1 | 1.99 | 3.66 |
| 0/1 | 1/1 | 3.24 | 4.95 |
| 0/1 | 1/1 | 1.65 | 3.57 |
| 0/1 | 1/1 | 4.44 | 6.84 |
| 0/1 | 1/1 | 3.96 | 6.48 |
| 0/1 | 1/1 | 3.86 | 6.7 |
| 0/1 | 1/1 | 2.12 | 6.22 |
| 1/1 | 1/1 | 6.24 | 8.25 |
| 0/1 | 1/1 | 2.59 | 5.05 |
| 1/1 | 1/1 | 9.77 | 11.06 |
| 1/1 | 1/1 | 7.57 | 8.98 |
| 0/1 | 1/1 | 4.57 | 6.05 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 0/1 | 1/1 | 2.39 | 3.95 |
| 0/1 | 1/1 | 3.82 | 5.69 |
| 1/1 | 1/1 | 7.34 | 6.62 |
| 1/1 | 1/1 | 7.69 | 7.22 |
| 1/1 | 1/1 | 6.89 | 6.55 |
| 1/1 | 1/1 | 5.79 | 5.52 |
| 1/1 | 1/1 | 11.66 | 11.77 |
| 1/1 | 1/1 | 8.85 | 9.12 |
| 1/1 | 1/1 | 10.5 | 10.78 |
| 1/1 | 1/1 | 9.04 | 9.5 |

| | | | |
|-----|-----|-------|-------|
| 1/1 | 1/1 | 7.57 | 8.13 |
| 1/1 | 1/1 | 7.58 | 6.18 |
| 1/1 | 0/1 | 4.45 | 3.38 |
| 1/1 | 1/1 | 6 | 5.21 |
| 1/1 | 1/1 | 4.08 | 3.39 |
| 0/1 | 1/1 | 2.93 | 2.65 |
| 1/1 | 1/1 | 5.02 | 4.78 |
| 1/1 | 1/1 | 5.05 | 4.84 |
| 1/1 | 1/1 | 5.5 | 5.38 |
| 1/1 | 1/1 | 3.69 | 3.6 |
| 1/1 | 1/1 | 5.77 | 5.71 |
| 1/1 | 1/1 | 5.57 | 5.56 |
| 1/1 | 1/1 | 4.76 | 4.87 |
| 0/1 | 1/1 | 5.55 | 5.7 |
| 1/1 | 1/1 | 7.4 | 7.57 |
| 1/1 | 1/1 | 3.75 | 4.13 |
| 1/1 | 1/1 | 5.34 | 4.68 |
| 1/1 | 1/1 | 5.69 | 5.1 |
| 1/1 | 1/1 | 3.56 | 3.35 |
| 1/1 | 1/1 | 3.88 | 3.73 |
| 1/1 | 1/1 | 12.04 | 11.91 |
| 1/1 | 1/1 | 3.71 | 3.61 |
| 1/1 | 1/1 | 3.71 | 3.72 |
| 0/1 | 1/1 | 5.39 | 5.59 |
| 0/1 | 1/1 | 2.58 | 2.77 |
| 0/1 | 1/1 | 2.09 | 2.47 |
| 1/1 | 1/1 | 5.16 | 4.55 |
| 1/1 | 0/1 | 5.79 | 5.27 |
| 1/1 | 1/1 | 12.29 | 12.4 |
| 1/1 | 1/1 | 10.22 | 10.43 |
| 1/1 | 1/1 | 8.74 | 9.02 |
| 0/1 | 1/1 | 5.04 | 7.13 |
| 1/1 | 1/1 | 3.72 | 6.36 |
| 1/1 | 1/1 | 9.32 | 9.21 |
| 1/1 | 1/1 | 6.27 | 6.25 |
| 1/1 | 1/1 | 7.09 | 6.08 |
| 1/1 | 1/1 | 8.53 | 7.54 |

| Fold Change | 6 Normalized Avg Signal | 4 Normalized Avg Signal (log2) | | |
|-------------|-------------------------|--------------------------------|--|--|
| 266.49 | -1.52 | -9.98 | | |
| -5.08 | -5.56 | -3.62 | | |
| 110.12 | -1.36 | -8.68 | | |
| 8.43 | -0.49 | -4.1 | | |
| 3.47 | -5.8 | -8.12 | | |
| 2.88 | -0.72 | -2.78 | | |
| -6.09 | -3.04 | -0.97 | | |
| -6.73 | -7.05 | -4.83 | | |
| -10.35 | -6.52 | -3.67 | | |
| 56.79 | 4.15 | -2.41 | | |
| 1.46 | -2.98 | -4.25 | | |
| -3.59 | -0.92 | 0.19 | | |
| 5.18 | 2.47 | -3.76 | | |
| 1.9 | 3.14 | -1.64 | | |
| 1.16 | 0.86 | -3.21 | | |
| 1.06 | 2.34 | -1.61 | | |
| 1.01 | 1.33 | -2.54 | | |
| -1.02 | -1.35 | -5.18 | | |
| -1.19 | 1.75 | -1.87 | | |
| -1.36 | -0.6 | -4.02 | | |
| -1.67 | -0.84 | -3.97 | | |
| -1.96 | -0.57 | -3.46 | | |
| -2.73 | -1.47 | -3.89 | | |
| -3.28 | -0.53 | -2.68 | | |
| -3.55 | -0.59 | -2.63 | | |
| -4.03 | 0.5 | -1.35 | | |
| -4.21 | -1.04 | -2.82 | | |
| -6.28 | 0.95 | -0.26 | | |
| -34.19 | -1.72 | -0.48 | | |
| -34.29 | -0.31 | 0.93 | | |
| 177.35 | -1.8 | -7.72 | | |
| 12.36 | -3.06 | -5.13 | | |
| 10.87 | -6.64 | -8.53 | | |
| 9.59 | -5.08 | -6.79 | | |
| 9.6 | -5.33 | -7.04 | | |
| 9.46 | -5.14 | -6.83 | | |
| 8.08 | -4.38 | -5.84 | | |
| 7.29 | -6.85 | -8.17 | | |
| 6.41 | -7.57 | -8.7 | | |
| 6.32 | -2.25 | -3.36 | | |
| 6.28 | -5.64 | -6.74 | | |
| 6.04 | -3.94 | -4.99 | | |
| 1.01 | -4.63 | -3.09 | | |
| -1.06 | -7.99 | -6.35 | | |
| -1.1 | -9.22 | -7.53 | | |
| -1.19 | -5.13 | -3.32 | | |
| -1.26 | -9.73 | -7.85 | | |
| 1.75 | 0.42 | -5.46 | | |
| 1.07 | 0.06 | -5.11 | | |
| -1.07 | 0.04 | -4.94 | | |
| -1.19 | -1.69 | -6.51 | | |
| -1.58 | 2.66 | -1.75 | | |
| -2.53 | 1.49 | -2.25 | | |
| -3.42 | -1.92 | -5.22 | | |
| -6.78 | 0.46 | -1.86 | | |
| -8.1 | -1.92 | -3.98 | | |
| -8.36 | 1.64 | -0.37 | | |

| | | | | |
|---------|-------|-------|--|--|
| -13.6 | 0.93 | -0.38 | | |
| -15.39 | -1.14 | -2.27 | | |
| -16.41 | -3.06 | -4.1 | | |
| -69.45 | -1.88 | -0.84 | | |
| -77.53 | 0.12 | 1.32 | | |
| -89.66 | -1.39 | 0.03 | | |
| -93.97 | -0.54 | 0.94 | | |
| -114.11 | -0.75 | 1.01 | | |
| -144.39 | -0.96 | 1.14 | | |
| -306.43 | -2.22 | 0.97 | | |
| 3.78 | -0.23 | -5.99 | | |
| 1.59 | -0.38 | -4.89 | | |
| 1.03 | -3.07 | -6.95 | | |
| -1.04 | -3.43 | -7.21 | | |
| -1.29 | -0.84 | -4.31 | | |
| -1.47 | -2 | -5.28 | | |
| -1.71 | 2.45 | -0.62 | | |
| -4.55 | 0.77 | -0.88 | | |
| -5.86 | 0.44 | -0.84 | | |
| -6.82 | 0.79 | -0.28 | | |
| -6.91 | -0.83 | -1.88 | | |
| -31.52 | -0.43 | 0.71 | | |
| -43.38 | -0.59 | 1.01 | | |
| -57.79 | -1.87 | 0.14 | | |
| -63.7 | -1.89 | 0.27 | | |
| -64.16 | -1.53 | 0.64 | | |
| -65.32 | -2.05 | 0.14 | | |
| -65.88 | -3.79 | -1.58 | | |
| -79.62 | -1.55 | 0.93 | | |
| -103.94 | -3.01 | -0.14 | | |
| -161.05 | -3.08 | 0.41 | | |
| 1.52 | 2.97 | -2.68 | | |
| 1.41 | 2.09 | -3.45 | | |
| 1.2 | 2.39 | -2.92 | | |
| 1.07 | 2.08 | -3.07 | | |
| 1.06 | 1.49 | -3.65 | | |
| 1.03 | -0.76 | -5.85 | | |
| -1.01 | 3.06 | -1.97 | | |
| -1.11 | -0.37 | -5.27 | | |
| -1.14 | 4.6 | -0.26 | | |
| -1.18 | 3.51 | -1.3 | | |
| -1.28 | 5.2 | 0.51 | | |
| -1.31 | 1.01 | -3.65 | | |
| -1.32 | 0.36 | -4.28 | | |
| -1.41 | -0.18 | -4.73 | | |
| -1.51 | -0.81 | -5.26 | | |
| -1.55 | 4 | -0.42 | | |
| -1.72 | -1.62 | -5.88 | | |
| -1.9 | 1.01 | -3.11 | | |
| -2.04 | 1.2 | -2.82 | | |
| -2.59 | -1.53 | -5.21 | | |
| -2.69 | -2 | -5.63 | | |
| -3.44 | -2.15 | -5.42 | | |
| -4.53 | 2.4 | -0.47 | | |
| -4.68 | -0.22 | -3.05 | | |
| -6.98 | 3.14 | 0.89 | | |
| -8.3 | -2.15 | -4.15 | | |
| -10.57 | 0.3 | -1.35 | | |

| | | | | |
|---------|-------|-------|--|--|
| -13.86 | -0.45 | -1.71 | | |
| -68.66 | 0.62 | 1.67 | | |
| -69.63 | 0.98 | 2.05 | | |
| -72.25 | -0.95 | 0.18 | | |
| -145.68 | -1.22 | 0.92 | | |
| -145.87 | -0.73 | 1.41 | | |
| -172.74 | -0.64 | 1.74 | | |
| -257.97 | -1.04 | 1.92 | | |
| -308.57 | -1.76 | 1.46 | | |
| 50.68 | 6.8 | 1.37 | | |
| 39.12 | 7.42 | 2.36 | | |
| 8.19 | -0.45 | -3.25 | | |
| 7.98 | 2.77 | 0.01 | | |
| 7.55 | 3.54 | 0.85 | | |
| 2.75 | 1.56 | 0.33 | | |
| -1.77 | -0.96 | 0.1 | | |
| 1.24 | -0.88 | -6.24 | | |
| -1.02 | -1.84 | -6.87 | | |
| -1.07 | 0.8 | -4.16 | | |
| -1.3 | 0.98 | -3.7 | | |
| -1.57 | -2.28 | -6.68 | | |
| -2.05 | -2.55 | -6.57 | | |
| -2.46 | -1.72 | -5.47 | | |
| -7.34 | -2.65 | -4.83 | | |
| -13.73 | 0.66 | -0.62 | | |
| -69.52 | -3.35 | -2.29 | | |
| -74.39 | -1.25 | -0.09 | | |
| 2.28 | -1.26 | -6.62 | | |
| 2.04 | 0.02 | -5.17 | | |
| 1.24 | 2.12 | -2.36 | | |
| 1.22 | -2.73 | -7.19 | | |
| 1.19 | -1.39 | -5.81 | | |
| 1.18 | -0.81 | -5.21 | | |
| 1.05 | 3.34 | -0.89 | | |
| 1.04 | 1.01 | -3.22 | | |
| 1 | -2.64 | -6.81 | | |
| -1.13 | -2.49 | -6.47 | | |
| -1.17 | -2.72 | -6.66 | | |
| -1.19 | -2.76 | -6.67 | | |
| -1.27 | -1.97 | -5.79 | | |
| -1.28 | -3.68 | -7.48 | | |
| -1.39 | -2.67 | -6.36 | | |
| -1.43 | -2.15 | -5.8 | | |
| -1.44 | -4.16 | -7.8 | | |
| -1.53 | -4.37 | -7.92 | | |
| -1.55 | -2.81 | -6.34 | | |
| -1.75 | 2.2 | -1.16 | | |
| -2.1 | -2.76 | -5.86 | | |
| -2.34 | -3.74 | -6.69 | | |
| -3.14 | -3.65 | -6.17 | | |
| -3.49 | 0.01 | -2.35 | | |
| -3.6 | -3.65 | -5.97 | | |
| -4.04 | 0 | -2.15 | | |
| -5.28 | -2.21 | -3.98 | | |
| -5.4 | -1.78 | -3.51 | | |
| -5.85 | -0.85 | -2.46 | | |
| -7.35 | -3.23 | -4.52 | | |
| -7.67 | -3.67 | -4.89 | | |

| | | | | |
|---------|-------|-------|--|--|
| -8.99 | 0.82 | -0.18 | | |
| -39.49 | -2.92 | -1.78 | | |
| 1.46 | 2.69 | -2.64 | | |
| 1.23 | 1.98 | -3.12 | | |
| 1.18 | 4.87 | -0.16 | | |
| 1.07 | 1.92 | -2.97 | | |
| -1.06 | 0.73 | -3.99 | | |
| -1.24 | 3.77 | -0.71 | | |
| -1.81 | 3.72 | -0.21 | | |
| -1.91 | 0.49 | -3.37 | | |
| -2.65 | -0.34 | -3.72 | | |
| -4.89 | -1.51 | -4.01 | | |
| -4.99 | -2.13 | -4.6 | | |
| -7.56 | 1.2 | -0.67 | | |
| -8.36 | 0.93 | -0.8 | | |
| -11.84 | -1.35 | -2.57 | | |
| -79.84 | -1.27 | 0.26 | | |
| -1.14 | -2.63 | -7.73 | | |
| -1.16 | -2.47 | -7.54 | | |
| -1.3 | -1.78 | -6.68 | | |
| -1.87 | -2.79 | -7.17 | | |
| -1.9 | -3.34 | -7.7 | | |
| -3.03 | 2.53 | -1.16 | | |
| -3.95 | -3.31 | -6.61 | | |
| -4.41 | -2.27 | -5.41 | | |
| -4.44 | -0.8 | -3.93 | | |
| -4.55 | 0.74 | -2.35 | | |
| -4.86 | -3.38 | -6.39 | | |
| -5.48 | -3.02 | -5.85 | | |
| -6.95 | -3.57 | -6.05 | | |
| -7.01 | -1.35 | -3.83 | | |
| -7.13 | -2.5 | -4.95 | | |
| -7.64 | -2.5 | -4.85 | | |
| -7.83 | -1.7 | -4.01 | | |
| -13.76 | -3.51 | -5.01 | | |
| -15.67 | 0.63 | -0.68 | | |
| -17.7 | 2.78 | 1.64 | | |
| -18.03 | -2.93 | -4.04 | | |
| -18.2 | -3.4 | -4.5 | | |
| -19.45 | -1.52 | -2.52 | | |
| -83.93 | -3.2 | -2.09 | | |
| -91.59 | -1.44 | -0.21 | | |
| -94.11 | -2.68 | -1.4 | | |
| -95.29 | -1.59 | -0.3 | | |
| -125.29 | -1.94 | -0.25 | | |
| 72.03 | 2.23 | -2.85 | | |
| 34.56 | 1.1 | -2.92 | | |
| 23.53 | 3.15 | -0.32 | | |
| 22.61 | 1.45 | -1.97 | | |
| 16.28 | 0.54 | -2.4 | | |
| 14.29 | 2.5 | -0.25 | | |
| 10.71 | 0.14 | -2.19 | | |
| 7.96 | 0.94 | -0.97 | | |
| 7.34 | 1.31 | -0.48 | | |
| 7.23 | 1.13 | -0.64 | | |
| 7.2 | -0.16 | -1.92 | | |
| 7.17 | -0.18 | -1.94 | | |
| 7.09 | 0.11 | -1.63 | | |

| | | | | |
|--------|-------|-------|--|--|
| 6.91 | -0.17 | -1.88 | | |
| 6.02 | 2.34 | 0.83 | | |
| 5.87 | 0.01 | -1.46 | | |
| 5.79 | 0.02 | -1.43 | | |
| 5.6 | 1.16 | -0.24 | | |
| 5.34 | 0.68 | -0.65 | | |
| 5.34 | 0.1 | -1.23 | | |
| 5.22 | -2.36 | -3.65 | | |
| 4.76 | 1.05 | -0.11 | | |
| 4.72 | 1.32 | 0.16 | | |
| 4.7 | 4.21 | 3.06 | | |
| 4.62 | 0.51 | -0.62 | | |
| 4.52 | 1.83 | 0.75 | | |
| 4.48 | 1.58 | 0.5 | | |
| 4.44 | 1.71 | 0.65 | | |
| 4.27 | 0.63 | -0.38 | | |
| 1.01 | -0.76 | 0.32 | | |
| -1 | -1.24 | -0.15 | | |
| -1.06 | -2.59 | -1.42 | | |
| -1.1 | -3.52 | -2.29 | | |
| -1.14 | 5.49 | 6.77 | | |
| -1.17 | -2.12 | -0.81 | | |
| -1.19 | -2.16 | -0.82 | | |
| 1.36 | -1 | -6.04 | | |
| 1.23 | 1.04 | -3.86 | | |
| -1.11 | 0.34 | -4.11 | | |
| -1.3 | -1.75 | -5.97 | | |
| -4.22 | -1.67 | -4.19 | | |
| -4.29 | -1.64 | -4.14 | | |
| -6.82 | 0.04 | -1.79 | | |
| -9.11 | -1.26 | -2.67 | | |
| -10.24 | -2.68 | -3.92 | | |
| -73.87 | -2.22 | -0.61 | | |
| 1.46 | -0.47 | -5.44 | | |
| 1.19 | 1.47 | -3.2 | | |
| 1.02 | -1.63 | -6.07 | | |
| 1.01 | -2.51 | -6.94 | | |
| 1 | -0.98 | -5.4 | | |
| -1.03 | 1.56 | -2.82 | | |
| -1.03 | 3.18 | -1.2 | | |
| -1.05 | 0.4 | -3.94 | | |
| -1.2 | 0.02 | -4.13 | | |
| -1.24 | 0.85 | -3.26 | | |
| -1.27 | 0.43 | -3.64 | | |
| -1.3 | -0.08 | -4.12 | | |
| -1.34 | -1.55 | -5.54 | | |
| -1.36 | 1.83 | -2.15 | | |
| -1.36 | -2.59 | -6.56 | | |
| -1.37 | 0.44 | -3.52 | | |
| -1.48 | -2.37 | -6.23 | | |
| -1.48 | -0.31 | -4.17 | | |
| -1.62 | 0.8 | -2.92 | | |
| -1.91 | -3.29 | -6.78 | | |
| -3.2 | 2.18 | -0.57 | | |
| -3.99 | -3.16 | -5.58 | | |
| -4.2 | 1.29 | -1.06 | | |
| -4.77 | 1.57 | -0.6 | | |
| -9.87 | 1.3 | 0.18 | | |

| | | | | |
|--------|-------|-------|--|--|
| -10.6 | 1.19 | 0.18 | | |
| -43 | -3.03 | -2.02 | | |
| -43.49 | -1.19 | -0.16 | | |
| -51.88 | -1.34 | -0.06 | | |
| -53.89 | -1.08 | 0.25 | | |
| -84.29 | -2.86 | -0.88 | | |
| 6.94 | 0.48 | -4.45 | | |
| 2.35 | -2.89 | -6.26 | | |
| 1.1 | -1.69 | -3.96 | | |
| -1.62 | 0.02 | -1.42 | | |
| -1.73 | -0.1 | -1.44 | | |
| 2.01 | -0.2 | -4.98 | | |
| -1.7 | 0.61 | -2.4 | | |
| -1.75 | -2.83 | -5.79 | | |
| -3.39 | -1.15 | -3.16 | | |
| -3.56 | 3.32 | 1.38 | | |
| -5.66 | 0.17 | -1.1 | | |
| -6.62 | -1.38 | -2.42 | | |
| -44.81 | -2.54 | -0.82 | | |
| -45.92 | -1.18 | 0.57 | | |
| 289.53 | -2.03 | -6.74 | | |
| 51.39 | -3.99 | -6.21 | | |
| 43.64 | -4.06 | -6.04 | | |
| 35.1 | -0.31 | -1.98 | | |
| 30.03 | -1.35 | -2.79 | | |
| 29.07 | -3.88 | -5.27 | | |
| 27.41 | -0.39 | -1.7 | | |
| 27.09 | -3.4 | -4.69 | | |
| 25.87 | -1.27 | -2.5 | | |
| 25.29 | -2.62 | -3.81 | | |
| 24.8 | -2.97 | -4.14 | | |
| 23.41 | -0.38 | -1.46 | | |
| 5.47 | -2.01 | -1 | | |
| 4.84 | -0.47 | 0.72 | | |
| 4.37 | 0.29 | 1.64 | | |
| 4.27 | 0.32 | 1.7 | | |
| 1.44 | -7.88 | -4.94 | | |
| 1.42 | -8.36 | -5.4 | | |
| 1.31 | -9.66 | -6.59 | | |
| 2.13 | 3.19 | -1.5 | | |
| 1.17 | -0.68 | -4.51 | | |
| 1.04 | 1.3 | -2.36 | | |
| -1.03 | -1.62 | -5.17 | | |
| -1.06 | 3.41 | -0.1 | | |
| -1.19 | 1.31 | -2.03 | | |
| -1.26 | -0.73 | -4 | | |
| -1.33 | 2.75 | -0.43 | | |
| -1.48 | 0.82 | -2.21 | | |
| -1.63 | -0.78 | -3.67 | | |
| -1.75 | -1.01 | -3.8 | | |
| -1.84 | 5.84 | 3.12 | | |
| -1.96 | 4.45 | 1.82 | | |
| -3.46 | 4.25 | 2.45 | | |
| -4.15 | 2.67 | 1.13 | | |
| -4.78 | 1.02 | -0.32 | | |
| -4.89 | 0.36 | -0.95 | | |
| -5.15 | 1.92 | 0.68 | | |
| -5.15 | 2.62 | 1.39 | | |

| | | | | |
|---------|-------|--------|--|--|
| -5.4 | -1.84 | -3.01 | | |
| -25.63 | 0.17 | 1.25 | | |
| -26.08 | -0.63 | 0.48 | | |
| -29.04 | -1.24 | 0.02 | | |
| -54.23 | -1.11 | 1.05 | | |
| -2.04 | 1.16 | -3.45 | | |
| -4.68 | -1.01 | -4.43 | | |
| -6.17 | -1.66 | -4.68 | | |
| -21.03 | -0.95 | -2.2 | | |
| -116.71 | -0.4 | 0.83 | | |
| -149.61 | -1.09 | 0.49 | | |
| -149.93 | -0.04 | 1.55 | | |
| 1.99 | -2.33 | -6.91 | | |
| 1.11 | 1.95 | -1.8 | | |
| -1.04 | 2.16 | -1.38 | | |
| -1.12 | 3.24 | -0.19 | | |
| -1.32 | -3.39 | -6.58 | | |
| -3.81 | 2.51 | 0.85 | | |
| -5.3 | -3.2 | -4.39 | | |
| -5.43 | -2.04 | -3.19 | | |
| -27.97 | -2.47 | -1.25 | | |
| 34.67 | -3.2 | -7.71 | | |
| 32.46 | -3.57 | -7.98 | | |
| 31.06 | -4.64 | -8.99 | | |
| 30.84 | -3.26 | -7.6 | | |
| 30.21 | -3.77 | -8.09 | | |
| 29.23 | -3.44 | -7.7 | | |
| 28.7 | -3.62 | -7.86 | | |
| 27.92 | -6.65 | -10.85 | | |
| 26.93 | -2.75 | -6.9 | | |
| 26.68 | -4.33 | -8.47 | | |
| 24.2 | -2.3 | -6.3 | | |
| 23.99 | -3.1 | -7.08 | | |
| 22.65 | -2.51 | -6.41 | | |
| 21.54 | -2.15 | -5.97 | | |
| 20.19 | -3.54 | -7.27 | | |
| 19.53 | -2.46 | -6.15 | | |
| 19.45 | -5.2 | -8.88 | | |
| 18.59 | -3.3 | -6.91 | | |
| 17.12 | -0.86 | -4.35 | | |
| 16.72 | -1.65 | -5.11 | | |
| 15.21 | -5.27 | -8.59 | | |
| 13.54 | -1.22 | -4.38 | | |
| 8.49 | -6.74 | -9.23 | | |
| 6.57 | -3.13 | -5.25 | | |
| 6.54 | -2.75 | -4.86 | | |
| 4.79 | -2.17 | -3.83 | | |
| 4.08 | -4.98 | -6.41 | | |
| 4.02 | -8.1 | -9.5 | | |
| 3.51 | -0.64 | -1.85 | | |
| 3.36 | -7.27 | -8.42 | | |
| 3.35 | -0.54 | -1.68 | | |
| 3.35 | -0.29 | -1.43 | | |
| 3.1 | -1.14 | -2.17 | | |
| 9.33 | -0.48 | -4.96 | | |
| 2.13 | -4.61 | -6.95 | | |
| 1.39 | -3.29 | -5.03 | | |
| 1.14 | -6.09 | -7.54 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.13 | -3.01 | -4.45 | | |
| -1.08 | -5.45 | -6.59 | | |
| -1.12 | 0.05 | -1.05 | | |
| -10.06 | -7.34 | -5.27 | | |
| 2.95 | -0.12 | -4.56 | | |
| 2.24 | -1.33 | -5.37 | | |
| 2.22 | -0.07 | -4.1 | | |
| 2.19 | 3.04 | -0.97 | | |
| 2.15 | 2.15 | -1.83 | | |
| 1.84 | -1.89 | -5.65 | | |
| 1.67 | 0.96 | -2.65 | | |
| 1.43 | 0.58 | -2.82 | | |
| 1.4 | -2.18 | -5.54 | | |
| 1.38 | 0.84 | -2.49 | | |
| 1.31 | -1.32 | -4.59 | | |
| 1.27 | 2.44 | -0.79 | | |
| 1.26 | -0.5 | -3.71 | | |
| 1.25 | 0.78 | -2.43 | | |
| 1.2 | 0.75 | -2.39 | | |
| 1.2 | -2.23 | -5.37 | | |
| 1.14 | -2.87 | -5.94 | | |
| 1.07 | 3.42 | 0.45 | | |
| -1.04 | -2.45 | -5.27 | | |
| -1.32 | -2.88 | -5.36 | | |
| -1.55 | 1.7 | -0.55 | | |
| -1.77 | -1.32 | -3.37 | | |
| -1.93 | -3.21 | -5.13 | | |
| -15.64 | 0.12 | 1.21 | | |
| -16.68 | -0.03 | 1.15 | | |
| -17.53 | -2.44 | -1.18 | | |
| -17.7 | -0.64 | 0.63 | | |
| -18.81 | -1.71 | -0.35 | | |
| -20.12 | -2.16 | -0.71 | | |
| -20.19 | -2 | -0.54 | | |
| -23.44 | -1.51 | 0.17 | | |
| 16.99 | 0.63 | -3.79 | | |
| 1.62 | -4.34 | -5.38 | | |
| 9.33 | -0.5 | -4.91 | | |
| 2.13 | -4.62 | -6.9 | | |
| 1.39 | -3.3 | -4.97 | | |
| 1.14 | -6.11 | -7.48 | | |
| 1.13 | -3.03 | -4.4 | | |
| 1.02 | -3.91 | -5.13 | | |
| -1.08 | -5.46 | -6.53 | | |
| -1.1 | -4.23 | -5.28 | | |
| -1.12 | 0.04 | -0.99 | | |
| -10.06 | -7.36 | -5.21 | | |
| 17.2 | -3.35 | -7.73 | | |
| 9.37 | -0.59 | -4.09 | | |
| 5.2 | -4.57 | -7.22 | | |
| 3.37 | -3.44 | -5.46 | | |
| 3.13 | -4.4 | -6.32 | | |
| 2.8 | -4.34 | -6.1 | | |
| 1.86 | -4.41 | -5.58 | | |
| 1.77 | -5.49 | -6.58 | | |
| 1.75 | -2.36 | -3.44 | | |
| 1.72 | -2.87 | -3.93 | | |
| 1.67 | -3.25 | -4.27 | | |

| | | | | |
|--------|-------|-------|--|--|
| 118.18 | 2.84 | -1.53 | | |
| 67.62 | 3.07 | -0.49 | | |
| 34.68 | 1.19 | -1.41 | | |
| 32.53 | 1.44 | -1.07 | | |
| 32.05 | 1.89 | -0.6 | | |
| 23.6 | 0.31 | -1.74 | | |
| 22.51 | 1.02 | -0.96 | | |
| 20.21 | 1.65 | -0.18 | | |
| 20.14 | 1.5 | -0.32 | | |
| 14.81 | 1.71 | 0.33 | | |
| 12.57 | -0.51 | -1.65 | | |
| 2.84 | -3.05 | -2.04 | | |
| 2.8 | 1.92 | 2.94 | | |
| 2.64 | 1.64 | 2.75 | | |
| 2.6 | -0.33 | 0.81 | | |
| 2.53 | -2.28 | -1.11 | | |
| 2.53 | -1.72 | -0.55 | | |
| 2.49 | -2.74 | -1.54 | | |
| 2.46 | 0.19 | 1.4 | | |
| 2.43 | -0.09 | 1.14 | | |
| 2.37 | -2.76 | -1.49 | | |
| 2.32 | -2.02 | -0.72 | | |
| 2.32 | -1.04 | 0.26 | | |
| 2.31 | -2.8 | -1.5 | | |
| 2.3 | -2.02 | -0.71 | | |
| 2.27 | -2.04 | -0.72 | | |
| 2.13 | -0.99 | 0.43 | | |
| 2.05 | -0.41 | 1.07 | | |
| 1.99 | -0.72 | 0.8 | | |
| 1.97 | -2.11 | -0.58 | | |
| 1.93 | 1.08 | 2.65 | | |
| 1.92 | -2.24 | -0.67 | | |
| 1.9 | -0.68 | 0.9 | | |
| 1.87 | 0.59 | 2.2 | | |
| 1.81 | -3.08 | -1.42 | | |
| 1.69 | 1.32 | 3.08 | | |
| 1.68 | -0.08 | 1.68 | | |
| 1.67 | -0.29 | 1.48 | | |
| 1.65 | -1.31 | 0.48 | | |
| 1.64 | -2.78 | -0.98 | | |
| 1.59 | -3.57 | -1.73 | | |
| 1.54 | -2.49 | -0.6 | | |
| 1.54 | -3.49 | -1.6 | | |
| 1.52 | -2.25 | -0.35 | | |
| 1.51 | 0.47 | 2.38 | | |
| 1.47 | 0.64 | 2.59 | | |
| 1.47 | -2.65 | -0.69 | | |
| 1.45 | -0.35 | 1.62 | | |
| 1.45 | 2.06 | 4.04 | | |
| 1.42 | -0.84 | 1.17 | | |
| 1.41 | -1 | 1.01 | | |
| 1.34 | -2.44 | -0.35 | | |
| 1.31 | -1.57 | 0.56 | | |
| 1.29 | -1.38 | 0.76 | | |
| 1.24 | -3.3 | -1.1 | | |
| 1.13 | -2.81 | -0.47 | | |
| 1.1 | 1.16 | 3.54 | | |
| 1.09 | 0.89 | 3.27 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.05 | -2.55 | -0.12 | | |
| 1.03 | 1.52 | 3.99 | | |
| 1.02 | -1.32 | 1.16 | | |
| -1.09 | 2.62 | 5.26 | | |
| -1.09 | -0.95 | 1.68 | | |
| -1.11 | 4.14 | 6.8 | | |
| -1.11 | 1.44 | 4.1 | | |
| -1.13 | 2.51 | 5.19 | | |
| -1.13 | -2.01 | 0.67 | | |
| -1.14 | 3.09 | 5.79 | | |
| -1.21 | 0.13 | 2.92 | | |
| -1.24 | 0.89 | 3.71 | | |
| -1.28 | -1.74 | 1.13 | | |
| -1.29 | -3.36 | -0.48 | | |
| -1.37 | 3.61 | 6.57 | | |
| -1.47 | -3.37 | -0.3 | | |
| -1.5 | -1.2 | 1.9 | | |
| -1.55 | -3.76 | -0.61 | | |
| -1.58 | -3.78 | -0.6 | | |
| -1.61 | -3.55 | -0.35 | | |
| -1.67 | -4.13 | -0.88 | | |
| -1.89 | -3.84 | -0.41 | | |
| -2.05 | 0.56 | 4.11 | | |
| -2.44 | -4.33 | -0.53 | | |
| 1.14 | -1.14 | -5.5 | | |
| 1.09 | 3.9 | -0.4 | | |
| -1.11 | -1.39 | -5.41 | | |
| -1.34 | 2.35 | -1.4 | | |
| -1.88 | -0.93 | -4.19 | | |
| -2.31 | 2.04 | -0.92 | | |
| -2.39 | -1.88 | -4.79 | | |
| -3.01 | 3 | 0.42 | | |
| -7.41 | 0.17 | -1.11 | | |
| -8.81 | 2.07 | 1.04 | | |
| -56.6 | 0.33 | 1.98 | | |
| -76.54 | -1.75 | 0.34 | | |
| -1.06 | -1.63 | -5.97 | | |
| -1.36 | -3.21 | -7.19 | | |
| -1.49 | -4.18 | -8.02 | | |
| -1.54 | -0.84 | -4.64 | | |
| -1.66 | -3.52 | -7.21 | | |
| -2.29 | -0.44 | -3.66 | | |
| -3.88 | -0.63 | -3.09 | | |
| -3.91 | -3.04 | -5.49 | | |
| -4.64 | -4.49 | -6.7 | | |
| -4.69 | -3.94 | -6.12 | | |
| -5.39 | -3.88 | -5.87 | | |
| -5.57 | -1.23 | -3.17 | | |
| -45.37 | -1.48 | -0.4 | | |
| -54.13 | -1.94 | -0.6 | | |
| 3.4 | -2.12 | -6.44 | | |
| 1.51 | -2.32 | -5.48 | | |
| 1.35 | 3.79 | 0.8 | | |
| 1.35 | -2.36 | -5.35 | | |
| 1.13 | 0.32 | -2.42 | | |
| 1.07 | 4.16 | 1.51 | | |
| -1.02 | 3.36 | 0.84 | | |
| -1.05 | -1.11 | -3.6 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.08 | -3.61 | -6.06 | | |
| -1.11 | -1.81 | -4.22 | | |
| -1.19 | 1.75 | -0.56 | | |
| -1.43 | -3.56 | -5.6 | | |
| -1.51 | -2.15 | -4.11 | | |
| -1.98 | -3.74 | -5.32 | | |
| -2.13 | -2.69 | -4.16 | | |
| -2.42 | -4.4 | -5.68 | | |
| -2.91 | -2.12 | -3.14 | | |
| -2.92 | -4.09 | -5.1 | | |
| -11.96 | -3.03 | -2.01 | | |
| -21.22 | -5.1 | -3.25 | | |
| -24.1 | -4.32 | -2.29 | | |
| 2.28 | -0.19 | -4.5 | | |
| 1.55 | 1.08 | -2.68 | | |
| 1.5 | 1.26 | -2.45 | | |
| 1.41 | 0.83 | -2.79 | | |
| 1.37 | -1.88 | -5.45 | | |
| 1.14 | -1.58 | -4.9 | | |
| -1.4 | -2.91 | -5.55 | | |
| -1.6 | 0.39 | -2.05 | | |
| -1.88 | -0.27 | -2.48 | | |
| -1.95 | -2.01 | -4.17 | | |
| -2.35 | -1.61 | -3.5 | | |
| -2.49 | -0.54 | -2.35 | | |
| -2.58 | -2.62 | -4.37 | | |
| -2.6 | -2.25 | -4 | | |
| -3.17 | 2.44 | 0.99 | | |
| -3.43 | -3.08 | -4.43 | | |
| -4.14 | -1.59 | -2.67 | | |
| -19.88 | -2.09 | -0.9 | | |
| 3.92 | -4.47 | -8.78 | | |
| 2.05 | -2.3 | -5.68 | | |
| 1.35 | -3.4 | -6.17 | | |
| 1.09 | 0.07 | -2.39 | | |
| -1.04 | -1.1 | -3.38 | | |
| -1.07 | 1.66 | -0.58 | | |
| -1.07 | -4.97 | -7.21 | | |
| -1.2 | -6.2 | -8.27 | | |
| -1.51 | -4.54 | -6.29 | | |
| -1.56 | -5.9 | -7.59 | | |
| -1.78 | -6.08 | -7.58 | | |
| -1.99 | -3.93 | -5.28 | | |
| -10.17 | -3.7 | -2.69 | | |
| -10.48 | -5.52 | -4.47 | | |
| -21.85 | -5.34 | -3.22 | | |
| 5.97 | 5.6 | 1.31 | | |
| 3.01 | 4.42 | 1.12 | | |
| 1.31 | 0.75 | -1.34 | | |
| 1.12 | 1.55 | -0.31 | | |
| 1.07 | -0.86 | -2.67 | | |
| -1.16 | 2.1 | 0.61 | | |
| -1.25 | -1.15 | -2.54 | | |
| -1.26 | -1.34 | -2.71 | | |
| -1.37 | -1.74 | -3 | | |
| -1.56 | 1.08 | 0.01 | | |
| -6.98 | -0.28 | 0.81 | | |
| -7.63 | -0.51 | 0.71 | | |

| | | | | |
|--------|-------|-------|--|--|
| 19.3 | 0.76 | -3.5 | | |
| -3.66 | -5.38 | -3.5 | | |
| 1.76 | 3.59 | -0.64 | | |
| 1.47 | 3.77 | -0.2 | | |
| 1.32 | -0.8 | -4.61 | | |
| 1.23 | -3.4 | -7.11 | | |
| -1.01 | 3.92 | 0.52 | | |
| -1.13 | 1.62 | -1.61 | | |
| -1.44 | -4.88 | -7.77 | | |
| -1.46 | -0.84 | -3.71 | | |
| -1.55 | -1.98 | -4.76 | | |
| -2.02 | -3 | -5.4 | | |
| -3.75 | 0.55 | -0.96 | | |
| -4.81 | -2.97 | -4.12 | | |
| -5.33 | -4.13 | -5.13 | | |
| -23.99 | -3.23 | -2.06 | | |
| -26.63 | -1.65 | -0.33 | | |
| -44.41 | -2.93 | -0.87 | | |
| 1.78 | -0.7 | -4.93 | | |
| 1.33 | -0.4 | -4.2 | | |
| 1.12 | -0.51 | -4.07 | | |
| -1.19 | 0.94 | -2.2 | | |
| -1.3 | -0.59 | -3.61 | | |
| -1.35 | 0.01 | -2.95 | | |
| -1.46 | -3.53 | -6.38 | | |
| -1.48 | 0.24 | -2.58 | | |
| -1.7 | -5.96 | -8.58 | | |
| -2.47 | -2.59 | -4.67 | | |
| -2.49 | -2.72 | -4.79 | | |
| -3.65 | -3.93 | -5.46 | | |
| -4.67 | 1.22 | 0.05 | | |
| -21.48 | -1.25 | -0.22 | | |
| -23.42 | -6.44 | -5.28 | | |
| -23.97 | -1.51 | -0.32 | | |
| -25.39 | -3.67 | -2.39 | | |
| -45.27 | -5.82 | -3.71 | | |
| -53.42 | -4.04 | -1.69 | | |
| 1.06 | -1.44 | -5.63 | | |
| -1.06 | 1.7 | -2.32 | | |
| -1.14 | 0.06 | -3.85 | | |
| -1.18 | 1.88 | -1.98 | | |
| -1.38 | -0.32 | -3.95 | | |
| -1.54 | -0.39 | -3.87 | | |
| -1.65 | 3.07 | -0.31 | | |
| -2.5 | -0.62 | -3.4 | | |
| -3.03 | -0.25 | -2.75 | | |
| -3.6 | 0.43 | -1.82 | | |
| -6.08 | -2.3 | -3.8 | | |
| -7.08 | 2.23 | 0.95 | | |
| 5.61 | 0.1 | -4.08 | | |
| 1.34 | 0.85 | -1.26 | | |
| 1.21 | 1.53 | -0.43 | | |
| 1.18 | 1.21 | -0.72 | | |
| 1.16 | 3.69 | 1.79 | | |
| 1.11 | 2.87 | 1.02 | | |
| 1.1 | 1.9 | 0.06 | | |
| 1 | 0.23 | -1.46 | | |
| -1.02 | 2.89 | 1.23 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.08 | 1.23 | -0.35 | | |
| -1.29 | 0.57 | -0.75 | | |
| -1.35 | -0.93 | -2.19 | | |
| -1.37 | -1.46 | -2.7 | | |
| -1.4 | 0.08 | -1.13 | | |
| -1.42 | 2.65 | 1.47 | | |
| -1.44 | -0.72 | -1.88 | | |
| -1.48 | -1.44 | -2.57 | | |
| -1.49 | -2.23 | -3.35 | | |
| -1.51 | 0.19 | -0.9 | | |
| -1.54 | -0.03 | -1.1 | | |
| -1.6 | -0.97 | -1.98 | | |
| -1.62 | -2.86 | -3.86 | | |
| -7.15 | -2.44 | -1.29 | | |
| -7.48 | 0.12 | 1.33 | | |
| -8.65 | -0.65 | 0.78 | | |
| -11.79 | -2.4 | -0.53 | | |
| -12.75 | -3.23 | -1.25 | | |
| 9.12 | -0.95 | -5.11 | | |
| 1.91 | -5.95 | -7.86 | | |
| 1.38 | -5.69 | -7.13 | | |
| 1.13 | -3.22 | -4.37 | | |
| -4.03 | -1.62 | -0.58 | | |
| -5.12 | -0.21 | 1.17 | | |
| -10.06 | -7.54 | -5.19 | | |
| 25.22 | 1.63 | -2.51 | | |
| -1.4 | -2.37 | -1.36 | | |
| -1.42 | -4.14 | -3.11 | | |
| -1.6 | -1.72 | -0.52 | | |
| -1.72 | -5.7 | -4.4 | | |
| -2.72 | -4.94 | -2.98 | | |
| 6.12 | 3.79 | -0.34 | | |
| 1.39 | -0.15 | -2.14 | | |
| 1.32 | 0.09 | -1.83 | | |
| 1.22 | 2.42 | 0.62 | | |
| 1.01 | 0.64 | -0.88 | | |
| -1.03 | 0.29 | -1.19 | | |
| -1.12 | 1.59 | 0.24 | | |
| -1.17 | 2.5 | 1.22 | | |
| -1.28 | -0.23 | -1.39 | | |
| -1.29 | 0.24 | -0.91 | | |
| -1.37 | 0.09 | -0.98 | | |
| -8 | -1.67 | -0.18 | | |
| -8.28 | -0.55 | 0.99 | | |
| -8.76 | -0.6 | 1.02 | | |
| 1.22 | -0.25 | -4.37 | | |
| -3.16 | 0.5 | -1.66 | | |
| -4.46 | 3.08 | 1.41 | | |
| -6.36 | -2.11 | -3.26 | | |
| -44.78 | -0.76 | 0.91 | | |
| -55.84 | -1.17 | 0.81 | | |
| 8.46 | 1.48 | -2.63 | | |
| 2.71 | 3.6 | 1.14 | | |
| 2.19 | 0.96 | -1.19 | | |
| 1.72 | -0.59 | -2.39 | | |
| 1.62 | 2.64 | 0.92 | | |
| 1.22 | -1.17 | -2.48 | | |
| 1.19 | 4.37 | 3.1 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.17 | 0.94 | -0.31 | | |
| 1.16 | 3.99 | 2.75 | | |
| 1.15 | 3.4 | 2.17 | | |
| 1.14 | 0.21 | -1 | | |
| 1.13 | 0.65 | -0.55 | | |
| 1.11 | 3.93 | 2.75 | | |
| 1.1 | 1.85 | 0.7 | | |
| 1.05 | 3.78 | 2.69 | | |
| 1.05 | 2.6 | 1.5 | | |
| 1.03 | 1.99 | 0.92 | | |
| -4.18 | -1.94 | -0.9 | | |
| -4.99 | -1.57 | -0.27 | | |
| -8.63 | -1.5 | 0.58 | | |
| 1.87 | 4.25 | 0.21 | | |
| 1.77 | 1.61 | -2.34 | | |
| 1.59 | 1.29 | -2.51 | | |
| 1.39 | 1.4 | -2.21 | | |
| 1.38 | 0.9 | -2.71 | | |
| 1.36 | 2.76 | -0.82 | | |
| 1.1 | 3.11 | -0.17 | | |
| 1.09 | -1.08 | -4.34 | | |
| 1.03 | 0.82 | -2.36 | | |
| -1.03 | -1.18 | -4.28 | | |
| -1.07 | 0.45 | -2.58 | | |
| -1.11 | 0.58 | -2.4 | | |
| -1.12 | 1.25 | -1.72 | | |
| -1.18 | 2.42 | -0.48 | | |
| -1.29 | -1.51 | -4.28 | | |
| -1.33 | 1.82 | -0.91 | | |
| -1.35 | -0.98 | -3.69 | | |
| -1.41 | -1.08 | -3.71 | | |
| -1.46 | -0.01 | -2.6 | | |
| -1.54 | 0.17 | -2.35 | | |
| -1.55 | -1.89 | -4.4 | | |
| -1.61 | 2.14 | -0.31 | | |
| -1.63 | -0.09 | -2.52 | | |
| -1.7 | -0.1 | -2.47 | | |
| -1.76 | 3.69 | 1.37 | | |
| -1.82 | 2.24 | -0.03 | | |
| -2.07 | -1.62 | -3.7 | | |
| -2.12 | 1.03 | -1.02 | | |
| -2.44 | -2.28 | -4.13 | | |
| -2.63 | 1.52 | -0.22 | | |
| -2.85 | 2.87 | 1.25 | | |
| -2.91 | -3.12 | -4.71 | | |
| -3.1 | -1.9 | -3.4 | | |
| -3.78 | 0.59 | -0.62 | | |
| -3.85 | 1.12 | -0.07 | | |
| -3.91 | -3.58 | -4.75 | | |
| -4.38 | -1.21 | -2.22 | | |
| -19.2 | -0.43 | 0.7 | | |
| -20.5 | -1.56 | -0.34 | | |
| -23.06 | -0.66 | 0.73 | | |
| -23.79 | -3.19 | -1.75 | | |
| -24.14 | -1.79 | -0.33 | | |
| -26.72 | -0.93 | 0.68 | | |
| -26.78 | -1.13 | 0.48 | | |
| -27.42 | -2.22 | -0.58 | | |

| | | | | |
|--------|-------|-------|--|--|
| -32.82 | -2.11 | -0.21 | | |
| -35.7 | -2.77 | -0.74 | | |
| -67.12 | -2.12 | 0.81 | | |
| -74.76 | -3.88 | -0.79 | | |
| 1.39 | 2.83 | -1.2 | | |
| -1.56 | 0.12 | -2.79 | | |
| -1.86 | -0.26 | -2.92 | | |
| -2.28 | -2.4 | -4.76 | | |
| -2.48 | 1.93 | -0.32 | | |
| -2.79 | 1.4 | -0.67 | | |
| -3.41 | 0.33 | -1.46 | | |
| -3.52 | 0.01 | -1.73 | | |
| -5.06 | -0.82 | -2.04 | | |
| -5.88 | 0.45 | -0.56 | | |
| -23.67 | -2.3 | -1.29 | | |
| -24.42 | 0.22 | 1.27 | | |
| -24.98 | -0.5 | 0.58 | | |
| -25.66 | 0.12 | 1.24 | | |
| -28.36 | -0.97 | 0.3 | | |
| -29.85 | -2.77 | -1.42 | | |
| -30.32 | -3.01 | -1.64 | | |
| -31.17 | -1.2 | 0.2 | | |
| -32.25 | -1.9 | -0.44 | | |
| -33.53 | -1.63 | -0.12 | | |
| -33.94 | -2.13 | -0.6 | | |
| -35.44 | -2.05 | -0.46 | | |
| -35.86 | -0.96 | 0.65 | | |
| -41.8 | -2.23 | -0.4 | | |
| -42.11 | -2.76 | -0.92 | | |
| -44.21 | -1.15 | 0.75 | | |
| -45.49 | -2.54 | -0.59 | | |
| -51.3 | -3.04 | -0.92 | | |
| 9.54 | 3.63 | -0.39 | | |
| 1.39 | 2.36 | 1.12 | | |
| 1.35 | 3.31 | 2.11 | | |
| 1.29 | 3.63 | 2.5 | | |
| -4.03 | -0.56 | 0.69 | | |
| 1.22 | 0.52 | -3.49 | | |
| 1.09 | -0.5 | -4.36 | | |
| 1.01 | 0.72 | -3.02 | | |
| -1.02 | 2.21 | -1.49 | | |
| -1.08 | 0.01 | -3.6 | | |
| -1.13 | -2.08 | -5.63 | | |
| -1.23 | -2.56 | -5.98 | | |
| -1.75 | 0.34 | -2.58 | | |
| -1.95 | -1.08 | -3.85 | | |
| -2.34 | -1.82 | -4.32 | | |
| -2.35 | -1.05 | -3.55 | | |
| -2.48 | 3.42 | 1 | | |
| -3.26 | -2 | -4.02 | | |
| -3.37 | 1.35 | -0.63 | | |
| -3.92 | 1.53 | -0.23 | | |
| -4.01 | 1.64 | -0.09 | | |
| -4.44 | -0.01 | -1.59 | | |
| -4.61 | 1.66 | 0.14 | | |
| -4.73 | 0.76 | -0.72 | | |
| -5 | -0.09 | -1.5 | | |
| -5.26 | -0.48 | -1.82 | | |

| | | | | |
|--------|-------|-------|--|--|
| -5.7 | 0.75 | -0.47 | | |
| -6.58 | 1.92 | 0.91 | | |
| -32.57 | -0.74 | 0.56 | | |
| 1.22 | 0.52 | -3.49 | | |
| 1.09 | -0.5 | -4.36 | | |
| 1.01 | 0.72 | -3.02 | | |
| -1.02 | 2.21 | -1.49 | | |
| -1.08 | 0.01 | -3.6 | | |
| -1.19 | -2.14 | -5.62 | | |
| -1.23 | -2.56 | -5.98 | | |
| -1.75 | 0.34 | -2.58 | | |
| -1.95 | -1.08 | -3.85 | | |
| -2.34 | -1.82 | -4.32 | | |
| -2.35 | -1.05 | -3.55 | | |
| -2.48 | 3.42 | 1 | | |
| -3.26 | -2 | -4.02 | | |
| -3.37 | 1.35 | -0.63 | | |
| -3.92 | 1.53 | -0.23 | | |
| -4.01 | 1.64 | -0.09 | | |
| -4.44 | -0.01 | -1.59 | | |
| -4.61 | 1.66 | 0.14 | | |
| -4.73 | 0.76 | -0.72 | | |
| -5 | -0.09 | -1.5 | | |
| -5.26 | -0.48 | -1.82 | | |
| -5.7 | 0.75 | -0.47 | | |
| -6.58 | 1.92 | 0.91 | | |
| -32.57 | -0.74 | 0.56 | | |
| 1.22 | 0.52 | -3.49 | | |
| 1.09 | -0.5 | -4.36 | | |
| 1.01 | 0.72 | -3.02 | | |
| -1.02 | 2.21 | -1.49 | | |
| -1.08 | 0.01 | -3.6 | | |
| -1.19 | -2.14 | -5.62 | | |
| -1.23 | -2.56 | -5.98 | | |
| -1.65 | -3.17 | -6.18 | | |
| -1.75 | 0.34 | -2.58 | | |
| -1.95 | -1.08 | -3.85 | | |
| -2.34 | -1.82 | -4.32 | | |
| -2.35 | -1.05 | -3.55 | | |
| -2.48 | 3.42 | 1 | | |
| -3.26 | -2 | -4.02 | | |
| -3.37 | 1.35 | -0.63 | | |
| -3.92 | 1.53 | -0.23 | | |
| -4.01 | 1.64 | -0.09 | | |
| -4.44 | -0.01 | -1.59 | | |
| -4.61 | 1.66 | 0.14 | | |
| -4.73 | 0.76 | -0.72 | | |
| -5 | -0.09 | -1.5 | | |
| -5.26 | -0.48 | -1.82 | | |
| -5.7 | 0.75 | -0.47 | | |
| -6.58 | 1.92 | 0.91 | | |
| -32.57 | -0.74 | 0.56 | | |
| 1.22 | 0.52 | -3.49 | | |
| 1.09 | -0.5 | -4.36 | | |
| 1.01 | 0.72 | -3.02 | | |
| -1.02 | 2.21 | -1.49 | | |
| -1.08 | 0.01 | -3.6 | | |
| -1.19 | -2.14 | -5.62 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.23 | -2.56 | -5.98 | | |
| -1.75 | 0.34 | -2.58 | | |
| -1.95 | -1.08 | -3.85 | | |
| -2.34 | -1.82 | -4.32 | | |
| -2.35 | -1.05 | -3.55 | | |
| -2.48 | 3.42 | 1 | | |
| -3.26 | -2 | -4.02 | | |
| -3.37 | 1.35 | -0.63 | | |
| -3.92 | 1.53 | -0.23 | | |
| -4.01 | 1.64 | -0.09 | | |
| -4.44 | -0.01 | -1.59 | | |
| -4.61 | 1.66 | 0.14 | | |
| -4.73 | 0.76 | -0.72 | | |
| -5 | -0.09 | -1.5 | | |
| -5.26 | -0.48 | -1.82 | | |
| -5.7 | 0.75 | -0.47 | | |
| -6.58 | 1.92 | 0.91 | | |
| -32.57 | -0.74 | 0.56 | | |
| 1.22 | 0.52 | -3.49 | | |
| 1.09 | -0.5 | -4.36 | | |
| 1.01 | 0.72 | -3.02 | | |
| -1.02 | 2.21 | -1.49 | | |
| -1.08 | 0.01 | -3.6 | | |
| -1.19 | -2.14 | -5.62 | | |
| -1.23 | -2.56 | -5.98 | | |
| -1.65 | -3.17 | -6.18 | | |
| -1.75 | 0.34 | -2.58 | | |
| -1.95 | -1.08 | -3.85 | | |
| -2.34 | -1.82 | -4.32 | | |
| -2.35 | -1.05 | -3.55 | | |
| -2.48 | 3.42 | 1 | | |
| -3.26 | -2 | -4.02 | | |
| -3.37 | 1.35 | -0.63 | | |
| -3.92 | 1.53 | -0.23 | | |
| -4.01 | 1.64 | -0.09 | | |
| -4.44 | -0.01 | -1.59 | | |
| -4.61 | 1.66 | 0.14 | | |
| -4.73 | 0.76 | -0.72 | | |
| -5 | -0.09 | -1.5 | | |
| -5.26 | -0.48 | -1.82 | | |
| -5.7 | 0.75 | -0.47 | | |
| -6.58 | 1.92 | 0.91 | | |
| -32.57 | -0.74 | 0.56 | | |
| 8.58 | -1.72 | -5.7 | | |
| 1.19 | 1.83 | 0.7 | | |
| 1.59 | 0.94 | -3.04 | | |
| 1.11 | 1.6 | -1.86 | | |
| 1.08 | -1.69 | -5.1 | | |
| -1.04 | -1.95 | -5.21 | | |
| -2.18 | 1.4 | -0.79 | | |
| -2.27 | -1.56 | -3.69 | | |
| -2.7 | 0.05 | -1.83 | | |
| -2.72 | -0.6 | -2.47 | | |
| -3.23 | 3.31 | 1.69 | | |
| -4.27 | -3.78 | -4.99 | | |
| -31.44 | -1.99 | -0.32 | | |
| -36.18 | -3.31 | -1.44 | | |
| 4.04 | -1.19 | -5.15 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.05 | -3.71 | -5.59 | | |
| -1.15 | 1.74 | -0.01 | | |
| -1.15 | 3.96 | 2.22 | | |
| -1.25 | 1.07 | -0.55 | | |
| -1.27 | 2.09 | 0.49 | | |
| -1.49 | 0.32 | -1.05 | | |
| -1.54 | -0.06 | -1.38 | | |
| -1.57 | -3.52 | -4.82 | | |
| -7.92 | -0.64 | 0.4 | | |
| 1.61 | 0.78 | -3.16 | | |
| 1.48 | 3.17 | -0.65 | | |
| -1.28 | -1.57 | -4.47 | | |
| -3.68 | -0.47 | -1.84 | | |
| -20.71 | -1.25 | -0.13 | | |
| -21.51 | 0.49 | 1.67 | | |
| 2.49 | 0.15 | -3.79 | | |
| 1.41 | 3.62 | 0.51 | | |
| 1.4 | 0.09 | -3 | | |
| 1.32 | -3.24 | -6.26 | | |
| 1.27 | 2.19 | -0.77 | | |
| 1.01 | -3.26 | -5.89 | | |
| -1.03 | 0.41 | -2.16 | | |
| -1.08 | 0.34 | -2.17 | | |
| -1.09 | 1.6 | -0.89 | | |
| -1.1 | -2.36 | -4.84 | | |
| -1.12 | -0.15 | -2.6 | | |
| -1.15 | -2.68 | -5.1 | | |
| -1.17 | 4.25 | 1.87 | | |
| -1.3 | -2.24 | -4.48 | | |
| -1.36 | -3.63 | -5.79 | | |
| -1.45 | -2.17 | -4.25 | | |
| -1.58 | -0.9 | -2.85 | | |
| -1.59 | -2.11 | -4.05 | | |
| -1.74 | 0.93 | -0.89 | | |
| -1.83 | -1.94 | -3.68 | | |
| -1.84 | -1.99 | -3.73 | | |
| -2.02 | -1.03 | -2.63 | | |
| -2.1 | 0.58 | -0.96 | | |
| -2.24 | -3.07 | -4.52 | | |
| -2.29 | -3.84 | -5.25 | | |
| -2.72 | 0.07 | -1.1 | | |
| -2.73 | -1.65 | -2.81 | | |
| -2.79 | -0.35 | -1.49 | | |
| -2.98 | 0.13 | -0.91 | | |
| -12.3 | -1.29 | -0.28 | | |
| -12.55 | -1.63 | -0.59 | | |
| -15.4 | -2.33 | -1.01 | | |
| 2.02 | 2.58 | -1.33 | | |
| 1.02 | 1.47 | -1.45 | | |
| -1.17 | 0.58 | -2.08 | | |
| -1.18 | 2.79 | 0.13 | | |
| -1.44 | -1.36 | -3.73 | | |
| -1.51 | -2.16 | -4.46 | | |
| -2.21 | -0.27 | -2.01 | | |
| -2.66 | 1.66 | 0.18 | | |
| -2.67 | 0.32 | -1.16 | | |
| -2.69 | -0.64 | -2.1 | | |
| -3.03 | 1.39 | 0.09 | | |

| | | | | |
|--------|-------|-------|--|--|
| -15.54 | -2.02 | -0.96 | | |
| -18.58 | -1.37 | -0.05 | | |
| -20.26 | -2.91 | -1.47 | | |
| -20.5 | -1.15 | 0.31 | | |
| -26.36 | -3.04 | -1.22 | | |
| 7.01 | 2.13 | -1.77 | | |
| 7.01 | 2.13 | -1.77 | | |
| 1.51 | 2.84 | 1.16 | | |
| 1.37 | 2.78 | 1.25 | | |
| 1.08 | 4.21 | 3.02 | | |
| 1.02 | 2.62 | 1.51 | | |
| 49.25 | 3.45 | -0.43 | | |
| 12.13 | 3.95 | 2.08 | | |
| 9.63 | -0.3 | -1.83 | | |
| 9.41 | -0.46 | -1.96 | | |
| 8.17 | 1.93 | 0.64 | | |
| 8.02 | 1.48 | 0.21 | | |
| 7.71 | 1.89 | 0.68 | | |
| 7.62 | 1.73 | 0.54 | | |
| 7.15 | 0.45 | -0.65 | | |
| 6.88 | 0.27 | -0.77 | | |
| 6.83 | 0.92 | -0.11 | | |
| 1.62 | -2.63 | -1.59 | | |
| 1.54 | -0.73 | 0.38 | | |
| 1.5 | 2.97 | 4.11 | | |
| 1.49 | -0.74 | 0.43 | | |
| 1.46 | -0.91 | 0.28 | | |
| 1.45 | -2.39 | -1.18 | | |
| 1.43 | -1.22 | 0 | | |
| 1.38 | 0.47 | 1.74 | | |
| 1.36 | -2.05 | -0.76 | | |
| 1.32 | -1.5 | -0.16 | | |
| 1.25 | -2.46 | -1.04 | | |
| 1.22 | 3.46 | 4.9 | | |
| 1.18 | -2.35 | -0.85 | | |
| 1.18 | -0.78 | 0.71 | | |
| 1.14 | -0.76 | 0.8 | | |
| 1.08 | 0.58 | 2.21 | | |
| 1.06 | -2.97 | -1.31 | | |
| 1.06 | 3.87 | 5.53 | | |
| 1.06 | 1.62 | 3.28 | | |
| -1 | 1.79 | 3.53 | | |
| -1.09 | -1.82 | 0.04 | | |
| -1.16 | -3.26 | -1.31 | | |
| -1.24 | -0.32 | 1.74 | | |
| -1.26 | -2.93 | -0.86 | | |
| -1.53 | -0.33 | 2.02 | | |
| -1.7 | -3.37 | -0.86 | | |
| -1.99 | -2.98 | -0.25 | | |
| -2.22 | -0.32 | 2.56 | | |
| -2.57 | -1.84 | 1.26 | | |
| 16.37 | -4.46 | -8.34 | | |
| 4.96 | -5.54 | -7.69 | | |
| 3.68 | -7.37 | -9.1 | | |
| 2.61 | -7.67 | -8.9 | | |
| 2.26 | -1.15 | -2.17 | | |
| -3.64 | -3.6 | -1.58 | | |
| 15.72 | -2.26 | -6.14 | | |

| | | | | |
|--------|-------|-------|--|--|
| 13.66 | -2.24 | -5.92 | | |
| 11.63 | -1.29 | -4.73 | | |
| 10.76 | 2.79 | -1.09 | | |
| 1.75 | 1.29 | 0.03 | | |
| 1.59 | 0.25 | -0.88 | | |
| 1.56 | 1.38 | 0.28 | | |
| -3.12 | -2.18 | -0.99 | | |
| 5.61 | 0.39 | -3.48 | | |
| 1.03 | 1.31 | -0.12 | | |
| -1.21 | 0.56 | -0.55 | | |
| -6.94 | -1.56 | -0.15 | | |
| -7.48 | 0.41 | 1.92 | | |
| -11.79 | -2.11 | 0.06 | | |
| -12.75 | -2.94 | -0.65 | | |
| 4.5 | 3.58 | -0.28 | | |
| 1.87 | -1.11 | -3.71 | | |
| 1.43 | -1.08 | -3.29 | | |
| 1.17 | 4.19 | 2.27 | | |
| 1.15 | 4.05 | 2.16 | | |
| 1.12 | -1.1 | -2.96 | | |
| 1.1 | 3.6 | 1.77 | | |
| 1.06 | 4.68 | 2.9 | | |
| -1 | 0.08 | -1.61 | | |
| -1.02 | 1.86 | 0.19 | | |
| -1.04 | 1.34 | -0.31 | | |
| -1.1 | 1.37 | -0.18 | | |
| -1.18 | -0.77 | -2.22 | | |
| -1.2 | -1.05 | -2.48 | | |
| -1.19 | 1.61 | 0.17 | | |
| -1.28 | 3.12 | 1.78 | | |
| -1.39 | 1.5 | 0.27 | | |
| -1.44 | 0.53 | -0.64 | | |
| -1.46 | 1.78 | 0.64 | | |
| -1.53 | 1.04 | -0.04 | | |
| -1.54 | 2.21 | 1.15 | | |
| -1.57 | 1.24 | 0.19 | | |
| -1.61 | 0.72 | -0.29 | | |
| -6.49 | 0.65 | 1.65 | | |
| -7.09 | -0.17 | 0.96 | | |
| -7.25 | -1.85 | -0.69 | | |
| -7.6 | 0.16 | 1.39 | | |
| -9.34 | 0.63 | 2.16 | | |
| -9.47 | 0.51 | 2.06 | | |
| -10.43 | 1.01 | 2.7 | | |
| -10.93 | -1.87 | -0.11 | | |
| -11.63 | -1.77 | 0.07 | | |
| -11.81 | 0.44 | 2.31 | | |
| -12.37 | 0.98 | 2.92 | | |
| -14.2 | -1.98 | 0.15 | | |
| -15.63 | -0.25 | 2.02 | | |
| -16.08 | -1.22 | 1.09 | | |
| -16.75 | -1.75 | 0.62 | | |
| -17.06 | -0.35 | 2.05 | | |
| -19.23 | -0.54 | 2.03 | | |
| -24.98 | -0.58 | 2.37 | | |
| -27.36 | -0.2 | 2.88 | | |
| -30.35 | -2.38 | 0.85 | | |
| -32.78 | -1.62 | 1.72 | | |

| | | | | |
|--------|-------|-------|--|--|
| 6.94 | 2.43 | -1.41 | | |
| 1.83 | -0.65 | -2.58 | | |
| 1.76 | 0.96 | -0.91 | | |
| 1.47 | -1.75 | -3.35 | | |
| 1.42 | -0.53 | -2.09 | | |
| 1.39 | -1.23 | -2.75 | | |
| 1.29 | 1 | -0.42 | | |
| 1.21 | -2 | -3.33 | | |
| 1.18 | 0.15 | -1.14 | | |
| 1.12 | 0.35 | -0.87 | | |
| 1.08 | 0.77 | -0.4 | | |
| 1.08 | -0.24 | -1.4 | | |
| 1.06 | -0.42 | -1.56 | | |
| 1.06 | -1.92 | -3.06 | | |
| 1.06 | 2.99 | 1.85 | | |
| 1.05 | -0.67 | -1.8 | | |
| 1.02 | 0.94 | -0.14 | | |
| -1.02 | -1.85 | -2.87 | | |
| -4.19 | -0.95 | 0.06 | | |
| 2.34 | 2.12 | -1.73 | | |
| 1.5 | 0.72 | -2.48 | | |
| 1.1 | 2.72 | -0.04 | | |
| -1.02 | -2.16 | -4.75 | | |
| -1.18 | -0.91 | -3.29 | | |
| -1.26 | -2.18 | -4.47 | | |
| -1.74 | 2.57 | 0.75 | | |
| -1.84 | -1.53 | -3.27 | | |
| -2.53 | 1.21 | -0.07 | | |
| -2.79 | 2.33 | 1.19 | | |
| -2.84 | 1.89 | 0.78 | | |
| -2.93 | -2.51 | -3.57 | | |
| -12.62 | -1.37 | -0.33 | | |
| -14.87 | -2.34 | -1.06 | | |
| -15.59 | -1.97 | -0.62 | | |
| 1.79 | 1.42 | -2.41 | | |
| 1.18 | -2.34 | -5.57 | | |
| 1.07 | -2.39 | -5.49 | | |
| 1.06 | 8.13 | 5.05 | | |
| -1.89 | 3.08 | 1.01 | | |
| -2.72 | 0.96 | -0.59 | | |
| -3.12 | -2.73 | -4.08 | | |
| -3.3 | 1.35 | 0.08 | | |
| -3.86 | 1.39 | 0.35 | | |
| -3.94 | -0.81 | -1.82 | | |
| -16.23 | -0.54 | 0.49 | | |
| 2.67 | 4.2 | 0.39 | | |
| 1.59 | 2.85 | -0.21 | | |
| 1.38 | 1.79 | -1.07 | | |
| 1.2 | 2.52 | -0.13 | | |
| 1.18 | 0.86 | -1.77 | | |
| 1.16 | 2.21 | -0.39 | | |
| 1.08 | 4.23 | 1.73 | | |
| -1.12 | 1.06 | -1.17 | | |
| -1.19 | 0 | -2.14 | | |
| -1.22 | -1.35 | -3.45 | | |
| -1.37 | -1.28 | -3.21 | | |
| -1.39 | -1.27 | -3.19 | | |
| -1.4 | 1.56 | -0.34 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.95 | -1.5 | -2.93 | | |
| -11.7 | -1.47 | -0.31 | | |
| 10.31 | 1.4 | -2.4 | | |
| 1.68 | 1.42 | 0.23 | | |
| 1.49 | -3.25 | -4.26 | | |
| -4.8 | -2.43 | -0.61 | | |
| 1.48 | 1.85 | -1.95 | | |
| -1.11 | -0.29 | -3.38 | | |
| -1.11 | 3.39 | 0.3 | | |
| -1.12 | 5.56 | 2.49 | | |
| -1.23 | 1.44 | -1.49 | | |
| -1.31 | -1.43 | -4.27 | | |
| -1.42 | -1.74 | -4.47 | | |
| 1.73 | -1.1 | -4.9 | | |
| 1.27 | -0.78 | -4.12 | | |
| -1.02 | -1.53 | -4.5 | | |
| -1.19 | -4.13 | -6.88 | | |
| -1.31 | -0.41 | -3.02 | | |
| -1.55 | 0.03 | -2.34 | | |
| -2.09 | -4.02 | -5.96 | | |
| -3.21 | -2.13 | -3.45 | | |
| -3.85 | -1.18 | -2.23 | | |
| -16.58 | -2.06 | -1.01 | | |
| 1.27 | 0.21 | -3.58 | | |
| -1.33 | -0.07 | -3.1 | | |
| -1.41 | -3.35 | -6.3 | | |
| -1.59 | -1.13 | -3.91 | | |
| -2.13 | -2.01 | -4.36 | | |
| -2.15 | 1.35 | -0.99 | | |
| -2.37 | -1.51 | -3.71 | | |
| -2.85 | -1.75 | -3.69 | | |
| -27.81 | -1.45 | -0.09 | | |
| -29.86 | -1.09 | 0.36 | | |
| 1.9 | 0.15 | -3.62 | | |
| 1.62 | -0.42 | -3.96 | | |
| 1.62 | 2.44 | -1.1 | | |
| 1.44 | -0.44 | -3.82 | | |
| 1.31 | 0.16 | -3.08 | | |
| 1.23 | -1.22 | -4.37 | | |
| 1.22 | 2.08 | -1.05 | | |
| 1.2 | 0.87 | -2.24 | | |
| 1.17 | 2.43 | -0.65 | | |
| 1.16 | -1.36 | -4.42 | | |
| 1.15 | 0.69 | -2.37 | | |
| 1.15 | 3.89 | 0.83 | | |
| 1.15 | 2.12 | -0.93 | | |
| 1.12 | -2.33 | -5.35 | | |
| 1.1 | 4.01 | 1.02 | | |
| 1.1 | 1.85 | -1.13 | | |
| 1.07 | 0.24 | -2.71 | | |
| 1.04 | -0.2 | -3.11 | | |
| 1.02 | 0.18 | -2.69 | | |
| -1.04 | 1.5 | -1.29 | | |
| -1.05 | -0.27 | -3.05 | | |
| -1.08 | 4.5 | 1.77 | | |
| -1.12 | 4.84 | 2.15 | | |
| -1.17 | 0.65 | -1.97 | | |
| -1.25 | 0.41 | -2.11 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.38 | -2.93 | -5.31 | | |
| -1.4 | -0.29 | -2.65 | | |
| -1.41 | -1.42 | -3.77 | | |
| -1.52 | 0.41 | -1.83 | | |
| -1.54 | 1.67 | -0.55 | | |
| -1.73 | -1.69 | -3.74 | | |
| -1.82 | -2.54 | -4.52 | | |
| -2.03 | -0.27 | -2.1 | | |
| -2.1 | -3.43 | -5.21 | | |
| -2.12 | -1.04 | -2.81 | | |
| -2.15 | -1.79 | -3.54 | | |
| -2.17 | -3.02 | -4.75 | | |
| -2.51 | -0.72 | -2.24 | | |
| -2.69 | -1.15 | -2.57 | | |
| -2.87 | -0.36 | -1.69 | | |
| -22.55 | -1.35 | 0.29 | | |
| 2.32 | 4.6 | 0.84 | | |
| -1.16 | -0.64 | -2.98 | | |
| -1.16 | -3.54 | -5.87 | | |
| -1.19 | -3.41 | -5.71 | | |
| -1.23 | -2.3 | -4.54 | | |
| -1.26 | -2.6 | -4.81 | | |
| -1.39 | -4.03 | -6.1 | | |
| -1.52 | -3.12 | -5.06 | | |
| -1.54 | -4.17 | -6.09 | | |
| -2.3 | -3.19 | -4.53 | | |
| -2.59 | 0.72 | -0.46 | | |
| 3.34 | 1.83 | -1.92 | | |
| 3.16 | 3.09 | -0.58 | | |
| 2.95 | 1.6 | -1.96 | | |
| 2.8 | 2.42 | -1.07 | | |
| 2.73 | 2.65 | -0.8 | | |
| 1.24 | 2.77 | 0.46 | | |
| -1.01 | 6.67 | 4.68 | | |
| -1.03 | 0.62 | -1.33 | | |
| -1.04 | 9.16 | 7.21 | | |
| -1.06 | -0.1 | -2.02 | | |
| -1.08 | 1.72 | -0.18 | | |
| -1.17 | 6.14 | 4.37 | | |
| -1.26 | 7.34 | 5.67 | | |
| -1.35 | 0.81 | -0.76 | | |
| -1.66 | 1.77 | 0.5 | | |
| -1.99 | -0.49 | -1.5 | | |
| -8.76 | -0.02 | 1.11 | | |
| 10.11 | -0.03 | -3.77 | | |
| 1.69 | 0.52 | -0.64 | | |
| -6.75 | -3.12 | -0.76 | | |
| -1 | 3.29 | -0.42 | | |
| -1.73 | -0.53 | -3.46 | | |
| -3.65 | -1.54 | -3.38 | | |
| -28.63 | -0.26 | 0.86 | | |
| -41.77 | -0.49 | 1.18 | | |
| 53.66 | -0.1 | -3.81 | | |
| 17.95 | 0.06 | -2.07 | | |
| 11.43 | 0.49 | -0.99 | | |
| 11.37 | -0.53 | -2 | | |
| 1.64 | -0.62 | 0.71 | | |
| 2.32 | -3.16 | -6.86 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.12 | -4.42 | -7.07 | | |
| 1.1 | 3.55 | 0.92 | | |
| 1.04 | -0.06 | -2.6 | | |
| 1.04 | 1.11 | -1.43 | | |
| -1.02 | 1.42 | -1.04 | | |
| -1.11 | -0.41 | -2.74 | | |
| -1.2 | -4.48 | -6.7 | | |
| -1.31 | 3.33 | 1.23 | | |
| -1.51 | -1.23 | -3.12 | | |
| -1.62 | -3.38 | -5.17 | | |
| -1.64 | -2.58 | -4.34 | | |
| -1.68 | -3.15 | -4.88 | | |
| -1.7 | -4.08 | -5.79 | | |
| -1.86 | -0.15 | -1.74 | | |
| -2.35 | 0.35 | -0.9 | | |
| -2.44 | -4.14 | -5.33 | | |
| -2.73 | 0.08 | -0.95 | | |
| -11.83 | -0.13 | 0.95 | | |
| 1.22 | 0.4 | -3.28 | | |
| 1.09 | -0.63 | -4.15 | | |
| 1.06 | 0.79 | -2.69 | | |
| 1.04 | 0.5 | -2.95 | | |
| -1.01 | -0.71 | -4.09 | | |
| -1.08 | -0.11 | -3.39 | | |
| -1.13 | -2.2 | -5.42 | | |
| -1.23 | -2.68 | -5.77 | | |
| -1.5 | -0.59 | -3.4 | | |
| -1.63 | -0.48 | -3.17 | | |
| -1.75 | 0.22 | -2.37 | | |
| -1.95 | -1.14 | -3.58 | | |
| -2.48 | 3.3 | 1.21 | | |
| -3.05 | -0.62 | -2.41 | | |
| -3.26 | -2.12 | -3.81 | | |
| -3.37 | 1.22 | -0.42 | | |
| -3.92 | 1.41 | -0.02 | | |
| -4 | 1.3 | -0.1 | | |
| -4.61 | 1.54 | 0.35 | | |
| -4.72 | 0.23 | -0.92 | | |
| -4.73 | 0.64 | -0.51 | | |
| -5 | -0.22 | -1.29 | | |
| -5.26 | -0.61 | -1.61 | | |
| -21.2 | -3.17 | -2.16 | | |
| -21.34 | -2.53 | -1.51 | | |
| -21.8 | -0.43 | 0.62 | | |
| -23.49 | 0.26 | 1.42 | | |
| -32.57 | -0.86 | 0.77 | | |
| 5.93 | 0.71 | -2.97 | | |
| 1.1 | 2.14 | 0.9 | | |
| 1.08 | 1.71 | 0.49 | | |
| 1.05 | -1.41 | -2.59 | | |
| 1 | -0.38 | -1.49 | | |
| -1.04 | 2.45 | 1.4 | | |
| -1.05 | -0.22 | -1.26 | | |
| -1.06 | 0.65 | -0.38 | | |
| -4.75 | -3.57 | -2.43 | | |
| 53.48 | 0.08 | -3.58 | | |
| 33.27 | 0.85 | -2.13 | | |
| 19.66 | 0.59 | -1.63 | | |

| | | | | |
|--------|-------|-------|--|--|
| 17.15 | -0.15 | -2.17 | | |
| 8.65 | -0.09 | -1.13 | | |
| 1.83 | -0.24 | 0.96 | | |
| 1.62 | 0.86 | 2.24 | | |
| 1.38 | 2.66 | 4.27 | | |
| 1.36 | 1.52 | 3.15 | | |
| 1.28 | 0.39 | 2.11 | | |
| -1.28 | -4.02 | -1.59 | | |
| -1.49 | -3.99 | -1.34 | | |
| 5.09 | -0.79 | -4.46 | | |
| 3.54 | -0.74 | -3.89 | | |
| 2.13 | 1.88 | -0.53 | | |
| 1.84 | 0.66 | -1.55 | | |
| 1.72 | -2.3 | -4.4 | | |
| 1.68 | 5.11 | 3.04 | | |
| 1.55 | -2.12 | -4.08 | | |
| 1.53 | 0.87 | -1.06 | | |
| 1.48 | -0.15 | -2.03 | | |
| 1.39 | 0.44 | -1.36 | | |
| 1.36 | 1.54 | -0.23 | | |
| 1.27 | -1.05 | -2.71 | | |
| 1.22 | 0.7 | -0.9 | | |
| 1.2 | -0.89 | -2.47 | | |
| 1.18 | -1.85 | -3.4 | | |
| 1.17 | -1.57 | -3.11 | | |
| 1.15 | -2.8 | -4.33 | | |
| 1.12 | 5.36 | 3.88 | | |
| 1.11 | -2.19 | -3.65 | | |
| 1.09 | 0.25 | -1.2 | | |
| 1.09 | 0 | -1.45 | | |
| 1.09 | -0.69 | -2.14 | | |
| 1.07 | 2.27 | 0.85 | | |
| 1.03 | -2.6 | -3.96 | | |
| 1.02 | -3.06 | -4.41 | | |
| 1.02 | 6.7 | 5.35 | | |
| -1.04 | -0.96 | -2.23 | | |
| -1.06 | -2.78 | -4.01 | | |
| -1.06 | -3.42 | -4.66 | | |
| -1.08 | -2.2 | -3.4 | | |
| -1.11 | -3.19 | -4.36 | | |
| -1.11 | 0.08 | -1.09 | | |
| -1.12 | -2.04 | -3.19 | | |
| -1.19 | -3.68 | -4.74 | | |
| -1.2 | -2.35 | -3.4 | | |
| -1.22 | 3.14 | 2.11 | | |
| 30.12 | 0.67 | -2.97 | | |
| 7.05 | 0.12 | -1.43 | | |
| 1.18 | -4.45 | -8.06 | | |
| -1.34 | -3.54 | -6.48 | | |
| -3.81 | 1.59 | 0.15 | | |
| -4.02 | -3.97 | -5.33 | | |
| -4.27 | -3.23 | -4.51 | | |
| -26.39 | -5.36 | -4 | | |
| -27.59 | -2.54 | -1.12 | | |
| -28.51 | -2.53 | -1.07 | | |
| -31.61 | -6 | -4.38 | | |
| -41.32 | -3.55 | -1.55 | | |
| 1.18 | 3.79 | 0.19 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.04 | -0.28 | -3.59 | | |
| -1.11 | -0.3 | -3.5 | | |
| -1.13 | -0.26 | -3.44 | | |
| -1.38 | 2.52 | -0.38 | | |
| -2.3 | 3.07 | 0.92 | | |
| -3.16 | -2.29 | -3.99 | | |
| -30.27 | -1.37 | 0.19 | | |
| 1.52 | -1.16 | -4.75 | | |
| 1.03 | 4.55 | 1.52 | | |
| -1.05 | 0.96 | -1.96 | | |
| -1.07 | -1.81 | -4.7 | | |
| -1.1 | -1.42 | -4.27 | | |
| -1.13 | -2.94 | -5.76 | | |
| -1.16 | 5.29 | 2.51 | | |
| -1.2 | 0.68 | -2.04 | | |
| -1.31 | -0.66 | -3.26 | | |
| -1.32 | -0.7 | -3.3 | | |
| -1.33 | -3.52 | -6.1 | | |
| -1.36 | -0.65 | -3.21 | | |
| -1.44 | -1.55 | -4.02 | | |
| -1.46 | 0.89 | -1.55 | | |
| -1.52 | -0.79 | -3.17 | | |
| -1.56 | 0.4 | -1.94 | | |
| -1.58 | -0.35 | -2.68 | | |
| -1.58 | -0.37 | -2.7 | | |
| -1.65 | 2.2 | -0.07 | | |
| -1.79 | 0.92 | -1.23 | | |
| -1.85 | -0.16 | -2.26 | | |
| -1.91 | 0.4 | -1.65 | | |
| -1.93 | -0.61 | -2.65 | | |
| -1.97 | 0.27 | -1.74 | | |
| -2.14 | -0.49 | -2.38 | | |
| -2.15 | 0.87 | -1.02 | | |
| -2.15 | -1.09 | -2.98 | | |
| -2.17 | -1.89 | -3.76 | | |
| -2.19 | -2.6 | -4.46 | | |
| -2.2 | 1.65 | -0.2 | | |
| -2.26 | -2.69 | -4.51 | | |
| -2.29 | 0.57 | -1.22 | | |
| -2.43 | -2.32 | -4.03 | | |
| -2.44 | 0.75 | -0.95 | | |
| -2.59 | -1.1 | -2.72 | | |
| -2.8 | 0.65 | -0.86 | | |
| -2.91 | -2.05 | -3.5 | | |
| -2.96 | 0.54 | -0.88 | | |
| -3.07 | 2.65 | 1.28 | | |
| -3.79 | 2.16 | 1.09 | | |
| -16.56 | -0.86 | 0.2 | | |
| 9.36 | 1.6 | -1.99 | | |
| 4.78 | 0.91 | -1.71 | | |
| -2.69 | -1.53 | -0.47 | | |
| 36.03 | 1.29 | -2.29 | | |
| 11.99 | 1.1 | -0.89 | | |
| 11.11 | 1.94 | 0.05 | | |
| 9.06 | -0.82 | -2.4 | | |
| 8.41 | -1.14 | -2.62 | | |
| 1.34 | -0.42 | 0.75 | | |
| 1.11 | -0.7 | 0.75 | | |

| | | | | |
|--------|-------|-------|--|--|
| 54.95 | 1.56 | -2.02 | | |
| 28.66 | 2.37 | -0.27 | | |
| 26.92 | 1.67 | -0.88 | | |
| 15.1 | 1.42 | -0.3 | | |
| 12.92 | 1.91 | 0.41 | | |
| 12.27 | 1.71 | 0.3 | | |
| 2.07 | -1.86 | -0.71 | | |
| 1.81 | -1.08 | 0.27 | | |
| 1.54 | -3.01 | -1.43 | | |
| -1.01 | -2.01 | 0.21 | | |
| -2.98 | -3.63 | 0.15 | | |
| 15.45 | -0.98 | -4.55 | | |
| 7.83 | -5.28 | -7.87 | | |
| 5.41 | -4.4 | -6.46 | | |
| 3.8 | -6.26 | -7.81 | | |
| 3.76 | -1.83 | -3.37 | | |
| 2.78 | -6.13 | -7.23 | | |
| -2.05 | -8.28 | -6.87 | | |
| 20.77 | 1.09 | -2.48 | | |
| 9.42 | 1.13 | -1.31 | | |
| 7.47 | 4.55 | 2.45 | | |
| 6.66 | 0.89 | -1.04 | | |
| 5.64 | 0.3 | -1.39 | | |
| 5.51 | 0.5 | -1.16 | | |
| 5.21 | -1.25 | -2.83 | | |
| 4.3 | 1.28 | -0.02 | | |
| 3.72 | -1.98 | -3.07 | | |
| -1.2 | 1.12 | 2.18 | | |
| 8.4 | 1.57 | -1.99 | | |
| 1.75 | -1.58 | -2.87 | | |
| 2.32 | -3.24 | -6.8 | | |
| 1.12 | -4.5 | -7.01 | | |
| 1.1 | 3.47 | 0.99 | | |
| 1.04 | -0.14 | -2.53 | | |
| -1.02 | 1.34 | -0.97 | | |
| -1.11 | -0.49 | -2.67 | | |
| -1.16 | -1.19 | -3.31 | | |
| -1.34 | -1.57 | -3.48 | | |
| -1.62 | -3.46 | -5.1 | | |
| -1.86 | -0.23 | -1.67 | | |
| 2.32 | -3.22 | -6.77 | | |
| 1.12 | -4.48 | -6.98 | | |
| 1.1 | 3.49 | 1.02 | | |
| 1.04 | -0.12 | -2.51 | | |
| 1.04 | 1.05 | -1.34 | | |
| -1.02 | 1.36 | -0.95 | | |
| -1.11 | -0.47 | -2.64 | | |
| -1.17 | -4.55 | -6.65 | | |
| -1.51 | -1.29 | -3.03 | | |
| -1.62 | -3.44 | -5.07 | | |
| -1.64 | -2.64 | -4.25 | | |
| -1.68 | -3.21 | -4.79 | | |
| -1.7 | -4.13 | -5.7 | | |
| -1.86 | -0.2 | -1.64 | | |
| -2.44 | -4.2 | -5.24 | | |
| -2.47 | 0.27 | -0.76 | | |
| -11.83 | -0.19 | 1.04 | | |
| 2.52 | -4.16 | -7.71 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.68 | 1.08 | -1.88 | | |
| 1.5 | 2.68 | -0.11 | | |
| 1.22 | -0.78 | -3.27 | | |
| 1.13 | -2.13 | -4.52 | | |
| 1.09 | -2.29 | -4.63 | | |
| 1.08 | 1.06 | -1.26 | | |
| -1.03 | -1.75 | -3.91 | | |
| -1.06 | -2.99 | -5.12 | | |
| -1.07 | -2.36 | -4.48 | | |
| -1.15 | -0.29 | -2.3 | | |
| -1.19 | -1.58 | -3.53 | | |
| -1.21 | -2.14 | -4.08 | | |
| -1.21 | -1.36 | -3.29 | | |
| -1.28 | 0.81 | -1.05 | | |
| -1.28 | -2.73 | -4.58 | | |
| -1.3 | -2.7 | -4.53 | | |
| -1.62 | -4.42 | -5.94 | | |
| -1.67 | -1.69 | -3.17 | | |
| -1.77 | -2.57 | -3.95 | | |
| -1.92 | -3.86 | -5.12 | | |
| -2.23 | -3.49 | -4.54 | | |
| 48.83 | 1.72 | -1.82 | | |
| 46.62 | 1.58 | -1.89 | | |
| 40.5 | 2.54 | -0.73 | | |
| 39.73 | 1.63 | -1.61 | | |
| 28.85 | 0.31 | -2.48 | | |
| 24.86 | 2.56 | -0.01 | | |
| 22.36 | 1.85 | -0.56 | | |
| 14.93 | 0.71 | -1.13 | | |
| 14.41 | 1.66 | -0.12 | | |
| 13.33 | 0.15 | -1.52 | | |
| 8.66 | -0.83 | -1.88 | | |
| 8.53 | -0.72 | -1.74 | | |
| 8.42 | 0.93 | -0.07 | | |
| 2.03 | -0.48 | 0.56 | | |
| 1.98 | -1.28 | -0.19 | | |
| 1.79 | -1.34 | -0.11 | | |
| 1.79 | -0.13 | 1.1 | | |
| 1.74 | -2.06 | -0.79 | | |
| 1.62 | -0.06 | 1.31 | | |
| 1.55 | 0.15 | 1.59 | | |
| 1.43 | -0.53 | 1.02 | | |
| 1.41 | 0.72 | 2.29 | | |
| 1.39 | -1.11 | 0.47 | | |
| 1.33 | 0.81 | 2.47 | | |
| 1.23 | 0.72 | 2.48 | | |
| 1.22 | -0.87 | 0.91 | | |
| 1.2 | -1.9 | -0.1 | | |
| 1.18 | 1.14 | 2.97 | | |
| 1.17 | 1.18 | 3.02 | | |
| 1.14 | -0.15 | 1.74 | | |
| 1.09 | -2.63 | -0.69 | | |
| 1.06 | -4 | -2.01 | | |
| 1.05 | 3.57 | 5.57 | | |
| 1.01 | 1.93 | 3.98 | | |
| -1.07 | 0.25 | 2.41 | | |
| -1.1 | -0.65 | 1.55 | | |
| -1.14 | 0.27 | 2.53 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.19 | 0.92 | 3.25 | | |
| -1.47 | 2.7 | 5.32 | | |
| -1.64 | -1 | 1.78 | | |
| -1.81 | 2.53 | 5.45 | | |
| -1.83 | -1.91 | 1.03 | | |
| 2.32 | -3.23 | -6.77 | | |
| 1.12 | -4.48 | -6.98 | | |
| 1.1 | 3.49 | 1.02 | | |
| 1.04 | -0.12 | -2.5 | | |
| 1.04 | 1.05 | -1.33 | | |
| -1.02 | 1.36 | -0.94 | | |
| -1.11 | -0.47 | -2.64 | | |
| -1.2 | -4.54 | -6.6 | | |
| -1.51 | -1.29 | -3.02 | | |
| -1.62 | -3.44 | -5.07 | | |
| -1.64 | -2.64 | -4.25 | | |
| -1.68 | -3.21 | -4.79 | | |
| -1.7 | -4.14 | -5.7 | | |
| -1.86 | -0.21 | -1.64 | | |
| -2.35 | 0.29 | -0.8 | | |
| -2.44 | -4.2 | -5.24 | | |
| -11.83 | -0.19 | 1.04 | | |
| 2.32 | -3.23 | -6.77 | | |
| 1.12 | -4.48 | -6.98 | | |
| 1.1 | 3.49 | 1.02 | | |
| 1.04 | -0.12 | -2.5 | | |
| 1.04 | 1.05 | -1.33 | | |
| -1.02 | 1.36 | -0.94 | | |
| -1.11 | -0.47 | -2.64 | | |
| -1.2 | -4.54 | -6.6 | | |
| -1.51 | -1.29 | -3.02 | | |
| -1.62 | -3.44 | -5.07 | | |
| -1.64 | -2.64 | -4.25 | | |
| -1.68 | -3.21 | -4.79 | | |
| -1.7 | -4.14 | -5.7 | | |
| -1.86 | -0.21 | -1.64 | | |
| -2.35 | 0.29 | -0.8 | | |
| -2.44 | -4.2 | -5.24 | | |
| -11.83 | -0.19 | 1.04 | | |
| 7.94 | -0.55 | -4.09 | | |
| 6.7 | 0.64 | -2.65 | | |
| 5.13 | -1.6 | -4.51 | | |
| 4.95 | 0.88 | -1.97 | | |
| 4.36 | 1.2 | -1.47 | | |
| 4.22 | 0.47 | -2.16 | | |
| 4 | -0.5 | -3.05 | | |
| 3.69 | 0.87 | -1.55 | | |
| 3.6 | 1.33 | -1.06 | | |
| 3.55 | -1.36 | -3.73 | | |
| 3.51 | -0.19 | -2.54 | | |
| 3.47 | 1.08 | -1.26 | | |
| 3.39 | 0.1 | -2.21 | | |
| 3.35 | 0.7 | -1.59 | | |
| 3.27 | 0.11 | -2.14 | | |
| 3.26 | -0.99 | -3.24 | | |
| 3.18 | 0.89 | -1.32 | | |
| 3.01 | -1.96 | -4.09 | | |
| 2.86 | -0.25 | -2.31 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.78 | 0.5 | -1.52 | | |
| 2.66 | 0.74 | -1.22 | | |
| 2.65 | -1.92 | -3.87 | | |
| 2.62 | 0.9 | -1.04 | | |
| 2.58 | 1.56 | -0.35 | | |
| 2.53 | 0.34 | -1.55 | | |
| 2.5 | 0.36 | -1.51 | | |
| 2.48 | 0.2 | -1.66 | | |
| 2.42 | -0.97 | -2.79 | | |
| 2.35 | -0.77 | -2.55 | | |
| 2.32 | 3.03 | 1.28 | | |
| 2.28 | 0.41 | -1.32 | | |
| 2.12 | 0.45 | -1.18 | | |
| 2.09 | -2.81 | -4.42 | | |
| 2.06 | 0.29 | -1.3 | | |
| 1.97 | 0.02 | -1.51 | | |
| 1.9 | 0.47 | -1.01 | | |
| 1.89 | -0.15 | -1.62 | | |
| 1.82 | -0.87 | -2.28 | | |
| 1.68 | -0.94 | -2.24 | | |
| 1.64 | -2.04 | -3.3 | | |
| -3.02 | -2.85 | -1.8 | | |
| -3.18 | -2.72 | -1.6 | | |
| -4.19 | -2.01 | -0.49 | | |
| 2.32 | -3.03 | -6.56 | | |
| 1.12 | -4.29 | -6.77 | | |
| 1.1 | 3.68 | 1.23 | | |
| 1.04 | 0.08 | -2.29 | | |
| 1.04 | 1.25 | -1.12 | | |
| -1.02 | 1.55 | -0.73 | | |
| -1.11 | -0.27 | -2.43 | | |
| -1.17 | -4.35 | -6.44 | | |
| -1.51 | -1.09 | -2.81 | | |
| -1.62 | -3.24 | -4.86 | | |
| -1.64 | -2.44 | -4.04 | | |
| -1.68 | -3.01 | -4.58 | | |
| -1.7 | -3.94 | -5.49 | | |
| -1.86 | -0.01 | -1.43 | | |
| -2.08 | -0.21 | -1.46 | | |
| -2.44 | -4 | -5.03 | | |
| -11.83 | 0 | 1.25 | | |
| 2.32 | -3.2 | -6.73 | | |
| 1.12 | -4.46 | -6.94 | | |
| 1.1 | 3.51 | 1.06 | | |
| 1.04 | -0.1 | -2.46 | | |
| 1.04 | 1.07 | -1.29 | | |
| -1.02 | 1.38 | -0.9 | | |
| -1.11 | -0.45 | -2.6 | | |
| -1.17 | -4.53 | -6.61 | | |
| -1.51 | -1.27 | -2.98 | | |
| -1.62 | -3.42 | -5.03 | | |
| -1.64 | -2.62 | -4.21 | | |
| -1.68 | -3.18 | -4.75 | | |
| -1.7 | -4.11 | -5.66 | | |
| -1.86 | -0.18 | -1.6 | | |
| -1.94 | 0.17 | -1.19 | | |
| -2.44 | -4.18 | -5.2 | | |
| -11.83 | -0.17 | 1.08 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.32 | -3.2 | -6.73 | | |
| 1.12 | -4.46 | -6.94 | | |
| 1.1 | 3.51 | 1.06 | | |
| 1.04 | -0.1 | -2.46 | | |
| 1.04 | 1.07 | -1.29 | | |
| -1.02 | 1.38 | -0.9 | | |
| -1.11 | -0.45 | -2.6 | | |
| -1.17 | -4.53 | -6.61 | | |
| -1.51 | -1.27 | -2.98 | | |
| -1.62 | -3.42 | -5.03 | | |
| -1.64 | -2.62 | -4.21 | | |
| -1.68 | -3.18 | -4.75 | | |
| -1.7 | -4.11 | -5.66 | | |
| -1.86 | -0.18 | -1.6 | | |
| -1.94 | 0.17 | -1.19 | | |
| -2.44 | -4.18 | -5.2 | | |
| -11.83 | -0.17 | 1.08 | | |
| 6.09 | 4.26 | 0.75 | | |
| 1.31 | 0.5 | -0.79 | | |
| 1.88 | 1.76 | -1.74 | | |
| 1.81 | 0.69 | -2.77 | | |
| -1.06 | 1.51 | -1 | | |
| -1.14 | -0.13 | -2.54 | | |
| -1.57 | -1.29 | -3.23 | | |
| -2.01 | 2.48 | 0.89 | | |
| -2.04 | 1.29 | -0.28 | | |
| -2.65 | -1.36 | -2.55 | | |
| -13.22 | -0.13 | 1 | | |
| 2.04 | -0.49 | -3.99 | | |
| 1.42 | 0.14 | -2.83 | | |
| 1.08 | -1.65 | -4.24 | | |
| 1.03 | -0.12 | -2.64 | | |
| -1.11 | -2.5 | -4.82 | | |
| -1.16 | -2.11 | -4.37 | | |
| -1.17 | -1.71 | -3.95 | | |
| -1.19 | -0.54 | -2.76 | | |
| -1.22 | -1.93 | -4.12 | | |
| -1.27 | -2.67 | -4.8 | | |
| -1.28 | -2.11 | -4.22 | | |
| -1.36 | -3.68 | -5.7 | | |
| -1.41 | -1.62 | -3.6 | | |
| -1.71 | -3.33 | -5.03 | | |
| -1.74 | -3.55 | -5.22 | | |
| -1.78 | -4.71 | -6.35 | | |
| -1.79 | -1.4 | -3.03 | | |
| -1.82 | -1.43 | -3.04 | | |
| -2.17 | -2.29 | -3.64 | | |
| -2.37 | -3.09 | -4.31 | | |
| -2.57 | -0.97 | -2.08 | | |
| 1.42 | -2.85 | -6.34 | | |
| 1.37 | -1.33 | -4.77 | | |
| 1.12 | -3.12 | -6.27 | | |
| 1.04 | -5.54 | -8.58 | | |
| -1.25 | -5.84 | -8.5 | | |
| -1.54 | -1.47 | -3.84 | | |
| -1.94 | -6 | -8.03 | | |
| -2.14 | -4.53 | -6.42 | | |
| -2.55 | -2.54 | -4.18 | | |

| | | | | |
|--------|-------|-------|--|--|
| -3.56 | 0.85 | -0.3 | | |
| -18.96 | -3.09 | -1.84 | | |
| -20.75 | -4.39 | -3 | | |
| -22.04 | -2.92 | -1.44 | | |
| -25.89 | -4.7 | -2.99 | | |
| -65.41 | -5.33 | -2.29 | | |
| 8.89 | -0.37 | -3.86 | | |
| 1.77 | 0.32 | -0.84 | | |
| 5.61 | -0.24 | -3.72 | | |
| 1.63 | 0.66 | -1.03 | | |
| 1.46 | 1.38 | -0.16 | | |
| 1.37 | 1.99 | 0.55 | | |
| 1.37 | 1.73 | 0.29 | | |
| 1.36 | 2.23 | 0.79 | | |
| 1.34 | 0.51 | -0.9 | | |
| 1.31 | 0.99 | -0.39 | | |
| 1.16 | 1.28 | 0.07 | | |
| 1.06 | -0.1 | -1.18 | | |
| 1.05 | 2.97 | 1.91 | | |
| 1.02 | 1.81 | 0.79 | | |
| 1.01 | -0.15 | -1.16 | | |
| 1 | 1.58 | 0.58 | | |
| -4.84 | -3.03 | -1.74 | | |
| -5.17 | -0.83 | 0.54 | | |
| -5.24 | -2.37 | -0.98 | | |
| -5.92 | -3.53 | -1.96 | | |
| -6.56 | -3.24 | -1.52 | | |
| -7.48 | -0.22 | 1.69 | | |
| -11.79 | -2.74 | -0.18 | | |
| -12.75 | -3.57 | -0.89 | | |
| 2.94 | 1.58 | -1.9 | | |
| 2.66 | 3.55 | 0.22 | | |
| 2.2 | 1.77 | -1.29 | | |
| 1.55 | 4.51 | 1.96 | | |
| 1.33 | 2.74 | 0.41 | | |
| 1.19 | 1.9 | -0.26 | | |
| 1.04 | 1.01 | -0.96 | | |
| -1.17 | 2.41 | 0.71 | | |
| -1.18 | 0.23 | -1.45 | | |
| -1.2 | 1.76 | 0.12 | | |
| -1.23 | -0.63 | -2.25 | | |
| -1.26 | -0.26 | -1.84 | | |
| -1.38 | 1.71 | 0.26 | | |
| -1.49 | -0.92 | -2.26 | | |
| -1.71 | -0.83 | -1.97 | | |
| -1.71 | 1.63 | 0.48 | | |
| -1.83 | -0.57 | -1.61 | | |
| 2.57 | 1.19 | -2.28 | | |
| 1.97 | 2.37 | -0.72 | | |
| 1.63 | 1.96 | -0.85 | | |
| 1.61 | 0.92 | -1.87 | | |
| 1.45 | -1.28 | -3.93 | | |
| 1.41 | -2.16 | -4.76 | | |
| 1.36 | 2.82 | 0.27 | | |
| 1.33 | 4.52 | 2 | | |
| 1.3 | 1.13 | -1.35 | | |
| 1.21 | 0.25 | -2.13 | | |
| 1.18 | 0.33 | -2.02 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.18 | 1.27 | -1.08 | | |
| 1.16 | -1.88 | -4.2 | | |
| 1.14 | -0.68 | -2.98 | | |
| 1.09 | -1.9 | -4.13 | | |
| 1.06 | -1.14 | -3.33 | | |
| 1.01 | 1.32 | -0.8 | | |
| -1 | 0.45 | -1.65 | | |
| -1.04 | 1.33 | -0.72 | | |
| -1.26 | 1.94 | 0.16 | | |
| -1.3 | -2.52 | -4.26 | | |
| -1.33 | 4.22 | 2.53 | | |
| -1.43 | 2.19 | 0.6 | | |
| -1.55 | -0.59 | -2.06 | | |
| -1.56 | 4.36 | 2.89 | | |
| -1.57 | 3.96 | 2.5 | | |
| -1.57 | 0.26 | -1.2 | | |
| -1.6 | -1.76 | -3.19 | | |
| -1.7 | 2.15 | 0.81 | | |
| -1.71 | 2.76 | 1.42 | | |
| -1.77 | 0.98 | -0.29 | | |
| -1.83 | -2.53 | -3.76 | | |
| -1.88 | -1.53 | -2.73 | | |
| -1.91 | -2.7 | -3.87 | | |
| -1.94 | -1.11 | -2.26 | | |
| -2.01 | -3.42 | -4.52 | | |
| -2.02 | 0.7 | -0.4 | | |
| -2.02 | -0.57 | -1.65 | | |
| -8.81 | -1.5 | -0.47 | | |
| -9.39 | -1.71 | -0.59 | | |
| -10.35 | -3.25 | -1.99 | | |
| -12.17 | -1.88 | -0.39 | | |
| -12.86 | -2.99 | -1.41 | | |
| 4.45 | -0.13 | -3.56 | | |
| 1.52 | -3.48 | -5.36 | | |
| 1.47 | 0.02 | -1.81 | | |
| 1.45 | -2.05 | -3.86 | | |
| 1.45 | -0.92 | -2.73 | | |
| 1.45 | -0.41 | -2.22 | | |
| 1.43 | -4.18 | -5.97 | | |
| 1.41 | -1.1 | -2.87 | | |
| 1.4 | -1.33 | -3.09 | | |
| 1.38 | 0.75 | -0.98 | | |
| 1.34 | -3.22 | -4.92 | | |
| 1.33 | -2.56 | -4.24 | | |
| 1.29 | -0.6 | -2.25 | | |
| 1.26 | -1.62 | -3.22 | | |
| 1.25 | -0.04 | -1.63 | | |
| 1.2 | -1.86 | -3.4 | | |
| 1.18 | -1.91 | -3.42 | | |
| 1.15 | -1.02 | -2.5 | | |
| 1.08 | -1.84 | -3.22 | | |
| 1.07 | -1.14 | -2.51 | | |
| 1.04 | -0.79 | -2.13 | | |
| 1.03 | -2.03 | -3.34 | | |
| 1.01 | -2.29 | -3.57 | | |
| 1 | -0.63 | -1.91 | | |
| -1.03 | -1.95 | -3.18 | | |
| -1.03 | -2.13 | -3.36 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.05 | -0.01 | -1.21 | | |
| -1.08 | -3.41 | -4.57 | | |
| -1.1 | -0.48 | -1.62 | | |
| -1.1 | 4.07 | 2.93 | | |
| -1.13 | -1.24 | -2.34 | | |
| -1.12 | -2.04 | -3.15 | | |
| -1.13 | -0.98 | -2.07 | | |
| -1.14 | -2.11 | -3.2 | | |
| -1.15 | -0.5 | -1.56 | | |
| -1.16 | -3 | -4.06 | | |
| -1.19 | -2.33 | -3.35 | | |
| -1.21 | -1.47 | -2.47 | | |
| 1.22 | 0.47 | -2.96 | | |
| 1.09 | -0.56 | -3.83 | | |
| 1.01 | 0.67 | -2.49 | | |
| -1.02 | 2.15 | -0.96 | | |
| -1.08 | -0.05 | -3.07 | | |
| -1.23 | -2.62 | -5.45 | | |
| -1.75 | 0.29 | -2.05 | | |
| -1.97 | -1.13 | -3.29 | | |
| -2.34 | -1.88 | -3.79 | | |
| -2.35 | -1.11 | -3.02 | | |
| -2.48 | 3.37 | 1.53 | | |
| -3.37 | 1.29 | -0.1 | | |
| -3.46 | -2.12 | -3.47 | | |
| -3.92 | 1.47 | 0.3 | | |
| -4.01 | 1.58 | 0.44 | | |
| -21.2 | -3.1 | -1.84 | | |
| -21.34 | -2.47 | -1.19 | | |
| -23.49 | 0.33 | 1.74 | | |
| 66.77 | -1.28 | -4.71 | | |
| 34.99 | -1.52 | -4.01 | | |
| 31.73 | -0.73 | -3.08 | | |
| 21.41 | -1.45 | -3.24 | | |
| 20.69 | -1.4 | -3.13 | | |
| 17.83 | -2.17 | -3.69 | | |
| 16.25 | -2.81 | -4.2 | | |
| 14.9 | 0.39 | -0.87 | | |
| 14.72 | 0.12 | -1.13 | | |
| 13.82 | 0.37 | -0.79 | | |
| 12.82 | 1.77 | 0.72 | | |
| 2.2 | 0.95 | 2.44 | | |
| 2.19 | -4.62 | -3.12 | | |
| 2.08 | -6.86 | -5.27 | | |
| 1.63 | -5.96 | -4.03 | | |
| 1.59 | -4 | -2.03 | | |
| 1.5 | -2.04 | 0.01 | | |
| 1.5 | -5.37 | -3.32 | | |
| 1.45 | -3.12 | -1.02 | | |
| 1.36 | -2.81 | -0.62 | | |
| 1.31 | -1.56 | 0.69 | | |
| 1.3 | -2.36 | -0.1 | | |
| 1.23 | -2.51 | -0.18 | | |
| 1.22 | -3.88 | -1.53 | | |
| 1.2 | -3.03 | -0.66 | | |
| 1.15 | -7.8 | -5.37 | | |
| 1.09 | -2.66 | -0.14 | | |
| 1.01 | -3.25 | -0.63 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.06 | -2.26 | 0.46 | | |
| -1.11 | -4.02 | -1.24 | | |
| -1.14 | -4.98 | -2.15 | | |
| -1.15 | -3.79 | -0.94 | | |
| -1.16 | -4.55 | -1.7 | | |
| -1.18 | -3.55 | -0.68 | | |
| -1.18 | -3.54 | -0.66 | | |
| -1.26 | -4.4 | -1.43 | | |
| -1.37 | -2.93 | 0.16 | | |
| -2.38 | -4.9 | -1.01 | | |
| 2.45 | -1.4 | -4.82 | | |
| 1.33 | -0.61 | -3.14 | | |
| 1.16 | 3.03 | 0.68 | | |
| 1.11 | 1.31 | -0.98 | | |
| -1.04 | 1.33 | -0.74 | | |
| -1.08 | -1.71 | -3.73 | | |
| -1.38 | 1.39 | -0.27 | | |
| -1.45 | -1.15 | -2.74 | | |
| -1.58 | 3.85 | 2.38 | | |
| -1.93 | -2.9 | -4.07 | | |
| -2.01 | -1.34 | -2.46 | | |
| -2.12 | 2.23 | 1.19 | | |
| -2.18 | 1.92 | 0.92 | | |
| -8.71 | -2.11 | -1.11 | | |
| -9.11 | 0.14 | 1.2 | | |
| -9.44 | -0.65 | 0.47 | | |
| -11.47 | -1.15 | 0.24 | | |
| -17.31 | -0.03 | 1.95 | | |
| -19.81 | -1.78 | 0.41 | | |
| 1.65 | -2.69 | -6.11 | | |
| 1.4 | 0.83 | -2.35 | | |
| 1.37 | 0.29 | -2.86 | | |
| 1.28 | -0.87 | -3.92 | | |
| 1.23 | -0.12 | -3.11 | | |
| 1.17 | 2.37 | -0.56 | | |
| 1.03 | -3.23 | -5.96 | | |
| 1.01 | -0.6 | -3.31 | | |
| -1.02 | 1.09 | -1.57 | | |
| -1.06 | -1.68 | -4.3 | | |
| -1.08 | 2.31 | -0.28 | | |
| -1.27 | 1.2 | -1.15 | | |
| -1.38 | 2.92 | 0.69 | | |
| -1.57 | -0.25 | -2.3 | | |
| -1.59 | -0.47 | -2.5 | | |
| -2.15 | 1.3 | -0.29 | | |
| -2.58 | -0.32 | -1.65 | | |
| -2.63 | 1.64 | 0.34 | | |
| -2.79 | 1.58 | 0.37 | | |
| -2.86 | 0.19 | -1 | | |
| -2.86 | 1.57 | 0.39 | | |
| -2.97 | 0.39 | -0.73 | | |
| -3.09 | 0.51 | -0.55 | | |
| -3.23 | -2.69 | -3.7 | | |
| -13.06 | 0.28 | 1.29 | | |
| -13.09 | -1.02 | -0.01 | | |
| -13.34 | -0.86 | 0.18 | | |
| -13.47 | -0.17 | 0.88 | | |
| -13.71 | -0.22 | 0.86 | | |

| | | | | |
|--------|-------|-------|--|--|
| -14.01 | -1.16 | -0.05 | | |
| -14.65 | -0.36 | 0.81 | | |
| -15.9 | -1.77 | -0.48 | | |
| -16.1 | -0.9 | 0.41 | | |
| -16.93 | -1.27 | 0.12 | | |
| -18.88 | -2.12 | -0.58 | | |
| -19.64 | -1.21 | 0.39 | | |
| -22.1 | -1.59 | 0.18 | | |
| -38.83 | -3.72 | -1.14 | | |
| 1.77 | -0.78 | -4.19 | | |
| 1.52 | -1.05 | -4.25 | | |
| 1.43 | 4.34 | 1.23 | | |
| 1.41 | -2.43 | -5.52 | | |
| 1.36 | -1.25 | -4.29 | | |
| 1.34 | 0.08 | -2.94 | | |
| 1.1 | -0.25 | -2.99 | | |
| 1.05 | 0.04 | -2.62 | | |
| 1.04 | -1.42 | -4.08 | | |
| -1.14 | -0.48 | -2.88 | | |
| -1.15 | -2.35 | -4.75 | | |
| -1.2 | -3.67 | -6 | | |
| -1.28 | -0.06 | -2.3 | | |
| -1.49 | -2.25 | -4.27 | | |
| -1.96 | -0.03 | -1.66 | | |
| -17.24 | -3.31 | -1.8 | | |
| 21.16 | 2.85 | -0.56 | | |
| 9.45 | 1.69 | -0.56 | | |
| 6.87 | 2.84 | 1.05 | | |
| -1.23 | 2.19 | 3.48 | | |
| -1.24 | -0.56 | 0.74 | | |
| -1.48 | -1.73 | -0.17 | | |
| 1.17 | 0.89 | -2.52 | | |
| 1.03 | 3.21 | -0.02 | | |
| 1.02 | -1.39 | -4.59 | | |
| -1.09 | 2.21 | -0.85 | | |
| -1.37 | 1.97 | -0.76 | | |
| -1.38 | 3.87 | 1.16 | | |
| -1.45 | -2.44 | -5.08 | | |
| -1.59 | -3.08 | -5.59 | | |
| -1.68 | -0.73 | -3.17 | | |
| -2.9 | -3.08 | -4.73 | | |
| -3.13 | -2.95 | -4.48 | | |
| -3.16 | 1.03 | -0.5 | | |
| -3.48 | -0.54 | -1.93 | | |
| -3.72 | 2.01 | 0.72 | | |
| -18.52 | -1.02 | 0.01 | | |
| -23.22 | -1.2 | 0.15 | | |
| -29.26 | -2.72 | -1.03 | | |
| 4.25 | 3.25 | -0.14 | | |
| 1.29 | -1.42 | -3.1 | | |
| 1.2 | -3.2 | -4.77 | | |
| 1.02 | -1.09 | -2.43 | | |
| -1.03 | -5.41 | -6.68 | | |
| -1.05 | -0.79 | -2.03 | | |
| -1.15 | -4.05 | -5.16 | | |
| -1.19 | -1.6 | -2.66 | | |
| -1.21 | -3.14 | -4.18 | | |
| 8.65 | 1.81 | -1.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| 5.3 | 1.99 | -0.69 | | |
| 3.06 | -0.37 | -2.25 | | |
| 1.92 | 0.94 | -0.27 | | |
| 1.87 | 0.09 | -1.09 | | |
| 1.69 | 1.18 | 0.15 | | |
| -2.5 | -0.86 | 0.19 | | |
| -2.72 | -1 | 0.18 | | |
| -6.36 | -2.53 | -0.13 | | |
| 5.86 | 1.38 | -2 | | |
| 4.89 | 0.56 | -2.56 | | |
| 1.57 | 1.02 | -0.45 | | |
| 1.33 | 0.65 | -0.59 | | |
| 1.23 | -2.75 | -3.88 | | |
| 1.23 | -1.22 | -2.34 | | |
| 1.24 | 0.98 | -0.15 | | |
| 1.23 | -1.73 | -2.85 | | |
| 1.15 | -1.68 | -2.71 | | |
| -3.78 | -3.51 | -2.42 | | |
| -4.29 | -0.61 | 0.66 | | |
| -4.36 | -0.53 | 0.77 | | |
| 1.97 | 2.13 | -1.22 | | |
| 1.66 | 2.2 | -0.92 | | |
| 1.57 | -0.68 | -3.72 | | |
| 1.35 | -0.92 | -3.73 | | |
| 1.3 | -1.6 | -4.36 | | |
| 1.19 | 1.27 | -1.36 | | |
| 1.14 | -1.19 | -3.76 | | |
| 1.11 | 1.48 | -1.05 | | |
| 1.01 | -1.55 | -3.96 | | |
| -1.03 | -2.66 | -5 | | |
| -1.06 | -3.3 | -5.61 | | |
| -1.07 | -3.3 | -5.59 | | |
| -1.07 | -0.02 | -2.3 | | |
| -1.08 | 4.69 | 2.42 | | |
| -1.14 | 0.71 | -1.49 | | |
| -1.22 | -2.48 | -4.58 | | |
| -1.25 | -0.05 | -2.11 | | |
| -1.3 | 3.54 | 1.53 | | |
| -1.38 | -0.15 | -2.07 | | |
| -1.44 | -1.06 | -2.92 | | |
| -1.45 | -0.61 | -2.46 | | |
| -1.63 | -0.38 | -2.06 | | |
| -1.63 | 2.31 | 0.64 | | |
| -1.69 | -0.51 | -2.14 | | |
| -1.86 | -0.27 | -1.76 | | |
| -1.87 | -3.18 | -4.66 | | |
| -1.93 | -1.06 | -2.5 | | |
| -1.96 | -2.02 | -3.43 | | |
| -2.16 | -0.47 | -1.74 | | |
| -2.28 | -0.51 | -1.71 | | |
| -2.35 | 0.77 | -0.38 | | |
| -2.43 | 0.36 | -0.74 | | |
| -10.51 | -1.45 | -0.44 | | |
| -11.94 | -1.96 | -0.77 | | |
| -17.74 | -2.24 | -0.47 | | |
| -18.29 | -3.89 | -2.08 | | |
| -24.17 | -2.56 | -0.35 | | |
| -25.12 | -1.9 | 0.36 | | |

| | | | | |
|-------|-------|-------|--|--|
| 5.5 | -4.76 | -8.1 | | |
| 2.43 | -6.23 | -8.38 | | |
| 1.84 | -3 | -4.76 | | |
| 1.44 | -6.43 | -7.83 | | |
| 1.39 | -4.8 | -6.15 | | |
| 1.37 | -4.85 | -6.18 | | |
| 1.33 | -3.38 | -4.67 | | |
| 1.33 | -3.76 | -5.04 | | |
| 1.31 | -5.36 | -6.63 | | |
| 1.24 | -3.34 | -4.54 | | |
| 1.19 | -3.47 | -4.59 | | |
| 1.16 | -1.68 | -2.77 | | |
| 1.11 | -4.42 | -5.45 | | |
| 60.91 | 1.19 | -2.15 | | |
| 22.67 | -0.01 | -1.93 | | |
| 18.12 | 0.18 | -1.41 | | |
| 16.28 | -0.05 | -1.49 | | |
| 15.92 | 1.02 | -0.38 | | |
| 13.64 | 0.38 | -0.8 | | |
| 12.5 | 1.34 | 0.29 | | |
| 2.59 | -1.8 | -0.58 | | |
| 2.57 | -0.21 | 1.02 | | |
| 2.55 | -2.39 | -1.15 | | |
| 2.37 | 0.87 | 2.22 | | |
| 2.29 | 0.13 | 1.53 | | |
| 1.98 | -0.43 | 1.17 | | |
| 1.61 | -0.06 | 1.85 | | |
| 1.37 | 1.7 | 3.84 | | |
| 1.34 | -0.25 | 1.91 | | |
| 22.52 | 2.3 | -1.04 | | |
| 15.21 | 0.71 | -2.06 | | |
| 6.94 | 1.59 | -0.05 | | |
| 6.7 | 2.69 | 1.1 | | |
| 5.87 | 0.06 | -1.34 | | |
| 5.05 | 1.82 | 0.64 | | |
| 1.08 | -2.68 | -1.63 | | |
| 1.07 | -2.93 | -1.87 | | |
| 1.01 | -0.49 | 0.64 | | |
| -1.06 | -2.18 | -0.94 | | |
| -1.24 | 0.06 | 1.53 | | |
| -1.34 | -2.54 | -0.96 | | |
| 14.99 | 2.2 | -1.13 | | |
| 14.88 | 3.21 | -0.11 | | |
| 13.97 | 4.11 | 0.88 | | |
| 11.15 | 1.93 | -0.97 | | |
| 9.2 | 2.6 | -0.03 | | |
| 9.15 | 1.83 | -0.79 | | |
| 7.76 | 0.69 | -1.69 | | |
| 7.63 | 2.48 | 0.12 | | |
| 7.59 | 0.33 | -2.02 | | |
| 7.45 | 1.44 | -0.89 | | |
| 6.79 | 2.58 | 0.39 | | |
| 6.61 | 1.08 | -1.07 | | |
| 6.59 | 1.27 | -0.87 | | |
| 6.42 | 2.02 | -0.09 | | |
| 5.81 | 0.94 | -1.02 | | |
| 5.44 | -1.48 | -3.35 | | |
| 5.37 | 1.19 | -0.66 | | |

| | | | | |
|---------|-------|-------|--|--|
| 5.15 | 1.21 | -0.58 | | |
| 4.75 | 1.18 | -0.5 | | |
| 4.7 | 3.88 | 2.22 | | |
| 4.55 | 0.55 | -1.06 | | |
| 4.52 | 1.65 | 0.05 | | |
| 4.4 | -0.02 | -1.59 | | |
| 4.07 | 0.49 | -0.96 | | |
| 3.76 | 1.58 | 0.24 | | |
| 3.71 | 1.3 | -0.02 | | |
| 3.56 | -0.94 | -2.19 | | |
| 3.49 | 1.36 | 0.14 | | |
| 3.32 | 0 | -1.16 | | |
| 3.04 | 1.6 | 0.56 | | |
| 3.02 | 4 | 2.98 | | |
| -1.35 | -1.71 | -0.71 | | |
| -1.39 | 1.64 | 2.68 | | |
| -1.39 | -1.66 | -0.61 | | |
| -1.41 | -1.28 | -0.21 | | |
| -1.56 | -0.62 | 0.6 | | |
| -1.74 | -0.98 | 0.39 | | |
| 1.25 | 0.38 | -2.95 | | |
| 1.21 | -0.99 | -4.27 | | |
| 1.2 | 0.19 | -3.07 | | |
| 1.03 | 0.78 | -2.27 | | |
| 1.01 | 0.03 | -2.99 | | |
| 1.01 | -1.13 | -4.15 | | |
| 1.01 | 0.02 | -3 | | |
| 1.01 | 0.6 | -2.41 | | |
| -1.04 | 1.21 | -1.73 | | |
| -1.04 | 1.06 | -1.88 | | |
| -1.09 | 2.12 | -0.76 | | |
| -1.1 | -0.19 | -3.05 | | |
| -1.16 | 0.61 | -2.18 | | |
| -1.23 | -1.18 | -3.89 | | |
| -1.27 | -0.13 | -2.79 | | |
| -1.29 | -2.04 | -4.68 | | |
| -1.46 | -0.94 | -3.4 | | |
| -1.6 | -0.44 | -2.76 | | |
| -1.74 | 3 | 0.8 | | |
| -1.83 | 0.45 | -1.68 | | |
| -1.85 | 1.57 | -0.55 | | |
| -1.97 | 2.85 | 0.82 | | |
| -2.25 | 4.64 | 2.8 | | |
| -2.61 | 0.25 | -1.37 | | |
| -2.68 | 2.35 | 0.77 | | |
| -2.95 | -0.29 | -1.74 | | |
| -2.97 | -3.59 | -5.03 | | |
| -3.17 | 0.31 | -1.03 | | |
| -16.66 | -0.52 | 0.53 | | |
| -23.26 | -3.63 | -2.1 | | |
| -32.85 | -0.9 | 1.13 | | |
| -37.85 | -2.31 | -0.07 | | |
| -59.72 | -3.17 | -0.28 | | |
| -73.39 | -3.31 | -0.12 | | |
| -159.88 | -3.83 | 0.49 | | |
| -190.47 | -3.4 | 1.17 | | |
| 2.36 | -1.95 | -5.27 | | |
| 1.54 | -2.25 | -4.96 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.33 | 2.01 | -0.48 | | |
| 1.27 | -0.61 | -3.03 | | |
| 1.16 | -0.38 | -2.68 | | |
| 1.14 | -3.11 | -5.37 | | |
| 1.06 | 0.06 | -2.1 | | |
| 1.02 | -1.5 | -3.61 | | |
| -1.02 | -1.11 | -3.16 | | |
| -1.05 | -1.91 | -3.91 | | |
| -1.17 | -1.14 | -2.99 | | |
| -1.17 | -2.98 | -4.83 | | |
| -1.22 | -2.64 | -4.43 | | |
| -1.25 | 0.94 | -0.82 | | |
| -1.26 | -1.97 | -3.71 | | |
| -1.27 | 1.83 | 0.1 | | |
| -1.28 | -3.89 | -5.62 | | |
| -1.34 | -1.47 | -3.13 | | |
| -1.34 | -1.31 | -2.97 | | |
| -1.35 | -1.87 | -3.52 | | |
| -1.38 | -3.1 | -4.71 | | |
| -1.38 | -0.81 | -2.42 | | |
| -1.4 | -2.89 | -4.49 | | |
| -1.42 | -3.01 | -4.59 | | |
| -1.46 | -0.79 | -2.32 | | |
| -1.49 | -3.59 | -5.09 | | |
| -1.56 | -3.34 | -4.77 | | |
| -1.59 | 1.56 | 0.14 | | |
| -1.71 | -2.76 | -4.07 | | |
| -1.77 | 2.51 | 1.26 | | |
| -1.87 | -1.14 | -2.31 | | |
| -1.89 | 0.64 | -0.52 | | |
| -1.98 | -2.16 | -3.25 | | |
| -2.02 | -2.69 | -3.75 | | |
| -2.11 | -0.85 | -1.85 | | |
| -8.87 | -2.23 | -1.16 | | |
| -9.89 | -2.7 | -1.47 | | |
| -9.96 | -4.27 | -3.03 | | |
| -10.9 | -2.23 | -0.86 | | |
| -11.69 | -2.65 | -1.18 | | |
| 1.03 | -0.72 | -4.04 | | |
| -1.03 | 1.57 | -1.66 | | |
| -1.36 | -0.61 | -3.44 | | |
| -1.91 | -2.27 | -4.6 | | |
| -4.04 | -1.41 | -2.66 | | |
| 2.08 | -1.39 | -4.7 | | |
| 1.46 | 0.22 | -2.58 | | |
| 1.39 | 0.75 | -1.99 | | |
| 1.3 | -1.76 | -4.4 | | |
| 1.3 | 0.66 | -1.98 | | |
| 1.28 | 0.65 | -1.96 | | |
| 1.16 | -2.28 | -4.75 | | |
| 1.11 | 2.87 | 0.46 | | |
| 1.1 | 2.23 | -0.17 | | |
| 1.06 | 0.41 | -1.93 | | |
| -1.01 | 0.39 | -1.86 | | |
| -1.03 | -0.23 | -2.44 | | |
| -1.1 | 2.74 | 0.62 | | |
| -1.14 | -1.05 | -3.12 | | |
| -1.37 | -0.29 | -2.1 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.44 | -1.2 | -2.93 | | |
| -10.84 | -0.91 | 0.28 | | |
| -11.87 | -4.76 | -3.45 | | |
| 2.32 | 0.78 | -2.53 | | |
| 1.82 | 1.01 | -1.95 | | |
| 1.19 | -2.07 | -4.42 | | |
| 1.16 | 0.94 | -1.37 | | |
| 1.14 | -3.12 | -5.4 | | |
| 1.12 | -0.78 | -3.03 | | |
| -1 | -1.5 | -3.59 | | |
| -1.04 | 3.83 | 1.79 | | |
| -1.06 | -1.29 | -3.3 | | |
| -1.2 | -1.18 | -3.01 | | |
| -1.34 | 1.8 | 0.13 | | |
| -1.4 | 1.46 | -0.15 | | |
| -1.46 | 0.78 | -0.77 | | |
| -1.54 | 0.94 | -0.54 | | |
| -1.56 | -4.3 | -5.75 | | |
| -1.61 | -2.45 | -3.86 | | |
| -9.39 | -3.91 | -2.78 | | |
| -10.5 | -2.37 | -1.08 | | |
| -12.1 | -2.5 | -1 | | |
| 14.29 | -2.47 | -5.78 | | |
| 12.24 | -2.03 | -5.12 | | |
| 7.16 | -3.22 | -5.54 | | |
| 3.85 | -3.7 | -5.12 | | |
| 3.22 | -1.57 | -2.74 | | |
| 3.36 | -1.25 | -4.56 | | |
| 2.13 | 1.48 | -1.17 | | |
| 1.24 | 3.3 | 1.43 | | |
| 1.17 | -0.28 | -2.07 | | |
| 1.13 | -1.76 | -3.5 | | |
| 1.08 | 1.28 | -0.38 | | |
| 1.03 | 0.08 | -1.52 | | |
| -1.27 | -1.53 | -2.74 | | |
| 2.87 | -2.46 | -5.76 | | |
| 1.35 | -2.9 | -5.11 | | |
| 1.01 | -3.35 | -5.15 | | |
| -1.09 | -2.03 | -3.69 | | |
| -1.09 | 1.93 | 0.27 | | |
| -1.1 | -3.85 | -5.5 | | |
| -1.11 | -3.19 | -4.83 | | |
| -1.11 | -0.69 | -2.32 | | |
| -1.32 | -0.19 | -1.57 | | |
| -1.33 | -2.93 | -4.29 | | |
| -1.36 | -1.58 | -2.92 | | |
| -7.61 | -1.95 | -0.81 | | |
| -7.88 | -2.49 | -1.29 | | |
| -7.95 | -1.57 | -0.37 | | |
| -10.55 | -3.75 | -2.13 | | |
| 9.53 | -2.25 | -5.54 | | |
| 5.02 | -2.92 | -5.29 | | |
| 4.52 | -3.08 | -5.3 | | |
| 2.85 | -5.25 | -6.8 | | |
| -2.69 | -5.12 | -3.73 | | |
| 2.09 | -1.02 | -4.31 | | |
| 1.39 | -1.86 | -4.56 | | |
| -1.08 | -4.19 | -6.31 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.16 | 3.71 | 1.7 | | |
| -1.54 | -6.52 | -8.13 | | |
| -1.64 | -3.7 | -5.21 | | |
| -10.72 | -1.57 | -0.38 | | |
| -11.18 | -2.01 | -0.75 | | |
| -12.26 | -2.48 | -1.09 | | |
| -14.15 | -3.13 | -1.54 | | |
| -14.45 | -3.74 | -2.11 | | |
| -17.72 | -3.3 | -1.38 | | |
| -24.09 | -4.15 | -1.79 | | |
| 1.29 | 0.82 | -2.47 | | |
| 1.02 | 2.5 | -0.44 | | |
| -1.01 | -1.12 | -4.01 | | |
| -1.32 | -2.44 | -4.95 | | |
| -1.41 | 3.78 | 1.36 | | |
| -1.75 | 1.78 | -0.32 | | |
| -1.76 | -3.89 | -5.98 | | |
| -2.05 | 1.05 | -0.83 | | |
| -2.15 | -3.33 | -5.14 | | |
| -2.19 | 1.77 | -0.01 | | |
| -2.66 | -0.09 | -1.6 | | |
| -2.67 | -1.5 | -3 | | |
| -2.88 | 2.85 | 1.47 | | |
| -2.9 | -0.9 | -2.27 | | |
| -3.67 | -0.09 | -1.13 | | |
| 8.73 | 0.16 | -3.12 | | |
| 2.8 | 5.12 | 3.49 | | |
| 2.27 | 6.04 | 4.7 | | |
| 1.83 | -1.05 | -2.08 | | |
| -2.25 | -3.61 | -2.59 | | |
| 6.16 | -1.09 | -4.35 | | |
| 2.33 | -6.44 | -8.3 | | |
| 2.33 | -3.45 | -5.3 | | |
| 1.35 | -3.4 | -4.47 | | |
| 1.31 | -1.37 | -2.4 | | |
| -4.41 | -4.43 | -2.93 | | |
| 5.24 | -1.13 | -4.39 | | |
| 1.21 | -3.47 | -4.61 | | |
| 15.59 | -1.32 | -4.58 | | |
| 14.81 | -0.87 | -4.05 | | |
| 5.89 | -3.07 | -4.92 | | |
| 5.59 | 1.42 | -0.36 | | |
| 5.07 | -2.95 | -4.59 | | |
| 4.89 | -0.45 | -2.03 | | |
| 4.03 | 1.48 | 0.18 | | |
| 4 | 2.08 | 0.78 | | |
| 3.87 | -1.87 | -3.12 | | |
| 3.85 | 2.09 | 0.85 | | |
| 3.77 | -2.74 | -3.95 | | |
| 3.64 | 1.76 | 0.6 | | |
| 3.46 | -3.29 | -4.37 | | |
| -1.24 | -2.42 | -1.41 | | |
| -1.27 | -1.81 | -0.76 | | |
| -1.27 | -1.76 | -0.71 | | |
| -1.27 | -5.99 | -4.93 | | |
| -1.32 | -4.4 | -3.3 | | |
| -1.36 | -4.99 | -3.85 | | |
| -1.43 | -5.56 | -4.34 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.46 | -4.42 | -3.17 | | |
| -1.54 | -0.69 | 0.65 | | |
| -1.6 | -5.71 | -4.32 | | |
| -1.63 | -3.45 | -2.04 | | |
| -1.65 | -2.28 | -0.85 | | |
| -1.68 | -5.07 | -3.62 | | |
| -1.85 | -3.48 | -1.89 | | |
| -2.28 | -5.56 | -3.66 | | |
| -2.59 | -3.67 | -1.59 | | |
| -2.62 | -4.95 | -2.85 | | |
| -2.82 | -2.52 | -0.32 | | |
| -2.91 | -4.07 | -1.83 | | |
| -3.03 | -3.5 | -1.19 | | |
| -3.55 | -2.11 | 0.42 | | |
| -3.85 | -4.67 | -2.02 | | |
| -4.27 | -3.85 | -1.05 | | |
| 9.27 | 2.33 | -0.93 | | |
| -2.09 | -0.02 | 1 | | |
| 173.23 | 1.33 | -1.92 | | |
| 129.69 | 2.09 | -0.74 | | |
| 127.93 | 1.99 | -0.82 | | |
| 95.09 | 2.29 | -0.09 | | |
| 77.68 | 1.61 | -0.48 | | |
| 72.81 | 1.07 | -0.92 | | |
| 71.11 | 0.55 | -1.42 | | |
| 54.23 | 2.54 | 0.97 | | |
| 50.46 | 0.03 | -1.43 | | |
| 48.95 | 1.92 | 0.5 | | |
| 44.84 | 1.41 | 0.12 | | |
| 38.73 | 1.04 | -0.04 | | |
| 9.13 | -0.68 | 0.32 | | |
| 8.69 | -0.94 | 0.13 | | |
| 7.71 | -1.16 | 0.09 | | |
| 7.68 | -2.54 | -1.29 | | |
| 7.23 | -2.94 | -1.61 | | |
| 7.15 | -2.05 | -0.7 | | |
| 6.98 | -2.56 | -1.17 | | |
| 6.87 | 0.66 | 2.07 | | |
| 6.5 | -1.35 | 0.13 | | |
| 6.38 | -2.29 | -0.77 | | |
| 6.17 | -0.56 | 1.01 | | |
| 6.1 | -1.3 | 0.28 | | |
| 6.08 | -1.15 | 0.43 | | |
| 4.18 | -1.45 | 0.67 | | |
| 3.61 | -3.18 | -0.84 | | |
| 3.43 | -0.5 | 1.91 | | |
| 3.04 | -3.78 | -1.19 | | |
| 2.94 | 0.03 | 2.66 | | |
| 2.72 | -4.3 | -1.56 | | |
| 2.68 | 2.29 | 5.06 | | |
| 1.98 | -4.64 | -1.43 | | |
| 1.84 | -4.6 | -1.29 | | |
| 1.65 | -2.57 | 0.9 | | |
| 1.4 | -3.25 | 0.45 | | |
| -1.15 | -1.75 | -5 | | |
| -1.53 | -1.23 | -4.07 | | |
| -1.88 | 1.96 | -0.58 | | |
| -1.99 | 3.05 | 0.6 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.2 | -1.93 | -4.24 | | |
| -3.46 | 1.97 | 0.32 | | |
| -3.8 | -2.45 | -3.97 | | |
| 7.98 | 1.88 | -1.35 | | |
| 2.76 | -1.72 | -3.41 | | |
| 2.49 | -2.44 | -3.99 | | |
| 2.4 | 1.05 | -0.45 | | |
| 2.4 | -3.51 | -5.01 | | |
| 2 | -2.71 | -3.94 | | |
| 1.9 | -4.73 | -5.88 | | |
| 1.75 | -1.4 | -2.45 | | |
| 1.76 | -1.27 | -2.32 | | |
| -3.64 | -5.03 | -3.4 | | |
| 3.47 | -4.19 | -7.42 | | |
| 1.63 | -5.13 | -7.27 | | |
| 1.37 | -2.3 | -4.19 | | |
| -1 | -5.03 | -6.46 | | |
| -1.04 | -4.31 | -5.69 | | |
| -1.12 | -0.72 | -1.99 | | |
| -1.14 | -2.28 | -3.52 | | |
| -5.82 | -3.59 | -2.48 | | |
| -12.8 | -5.29 | -3.05 | | |
| 1.7 | 4.48 | 1.27 | | |
| 1.29 | -1.27 | -4.09 | | |
| -1.04 | -0.04 | -2.43 | | |
| -1.23 | -0.75 | -2.9 | | |
| -1.41 | 2.63 | 0.67 | | |
| 197.72 | 0.54 | -2.67 | | |
| 85.64 | 0.3 | -1.7 | | |
| 76.47 | -0.47 | -2.31 | | |
| 73.49 | 1.08 | -0.7 | | |
| 68.85 | 1.57 | -0.12 | | |
| 58.79 | 0.79 | -0.67 | | |
| 56.81 | 0.81 | -0.6 | | |
| 56.49 | 0.55 | -0.85 | | |
| 56.44 | -0.6 | -2 | | |
| 51.6 | -0.08 | -1.35 | | |
| 49.54 | 0.76 | -0.45 | | |
| 49.32 | 0.88 | -0.32 | | |
| 9.5 | 0.13 | 1.29 | | |
| 9.19 | 1.95 | 3.17 | | |
| 8.72 | -0.32 | 0.97 | | |
| 8.26 | -0.87 | 0.5 | | |
| 7.8 | -0.04 | 1.41 | | |
| 7.71 | -0.33 | 1.14 | | |
| 7.67 | 1.16 | 2.64 | | |
| 7.41 | -0.24 | 1.29 | | |
| 7.33 | -1.12 | 0.43 | | |
| 7.17 | -0.02 | 1.56 | | |
| 6.87 | -1.54 | 0.1 | | |
| 6.22 | -0.62 | 1.16 | | |
| 5.51 | -2.73 | -0.78 | | |
| 5.06 | -3.5 | -1.42 | | |
| 4.33 | -0.26 | 2.05 | | |
| 3.34 | -1.38 | 1.3 | | |
| 3.11 | -5.73 | -2.94 | | |
| 2.47 | -2.81 | 0.3 | | |
| 2.28 | -4.05 | -0.82 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.94 | -6.33 | -2.87 | | |
| 1.08 | -6.24 | -1.93 | | |
| -1.1 | -1.49 | 3.07 | | |
| 1.38 | 0.17 | -3.04 | | |
| 1.2 | 1.97 | -1.03 | | |
| 1.06 | 2.26 | -0.57 | | |
| -1.05 | 2.71 | 0.04 | | |
| -1.09 | 0.53 | -2.09 | | |
| -1.17 | 3.99 | 1.47 | | |
| -1.58 | -1.44 | -3.52 | | |
| 2.1 | -3.68 | -6.88 | | |
| -8.85 | -2.15 | -1.13 | | |
| -23.57 | -1.75 | 0.68 | | |
| 1.4 | -0.07 | -3.27 | | |
| 1.33 | -3.1 | -6.23 | | |
| 1.27 | -1.07 | -4.13 | | |
| 1.24 | 0.89 | -2.13 | | |
| 1.23 | -3.72 | -6.74 | | |
| -1.01 | 1.68 | -1.02 | | |
| -1.12 | -2.99 | -5.54 | | |
| -1.22 | -3.7 | -6.13 | | |
| -1.42 | -4.63 | -6.84 | | |
| -1.89 | -1.51 | -3.31 | | |
| -2.02 | -1.83 | -3.52 | | |
| -2.53 | -1.27 | -2.64 | | |
| -2.67 | -4.53 | -5.82 | | |
| 3.51 | -0.68 | -3.87 | | |
| 1.53 | -4.55 | -6.55 | | |
| -1.01 | 0.95 | -0.42 | | |
| -1.01 | -2.78 | -4.15 | | |
| -1.08 | -4.47 | -5.74 | | |
| -1.14 | 0.75 | -0.45 | | |
| -1.2 | -0.72 | -1.84 | | |
| -1.3 | -5.78 | -6.79 | | |
| 9.12 | -2.52 | -5.71 | | |
| 7.86 | -2.78 | -5.75 | | |
| 4.04 | -3.23 | -5.24 | | |
| 8.38 | 1.44 | -1.74 | | |
| 2.4 | -1.56 | -2.94 | | |
| 2.05 | -1.53 | -2.69 | | |
| 1.93 | -1.09 | -2.16 | | |
| 1.86 | -3.4 | -4.41 | | |
| -2.22 | -3.42 | -2.39 | | |
| -2.4 | -3.24 | -2.09 | | |
| 3.97 | -2.91 | -6.09 | | |
| 2.13 | -2.17 | -4.46 | | |
| 1.71 | -1.52 | -3.49 | | |
| 1.14 | -1.71 | -3.1 | | |
| 1.07 | -3.24 | -4.54 | | |
| 1.05 | -1.77 | -3.03 | | |
| 1.02 | -1.88 | -3.1 | | |
| 1.01 | 0.07 | -1.14 | | |
| 1 | 0.11 | -1.09 | | |
| -1.03 | -1.04 | -2.18 | | |
| -1.05 | -1.24 | -2.37 | | |
| -1.08 | 0.58 | -0.5 | | |
| -1.08 | -2.3 | -3.38 | | |
| -1.11 | -3.49 | -4.53 | | |

| | | | | |
|--------|-------|-------|--|--|
| -4.99 | -5.7 | -4.57 | | |
| -5.06 | -2.56 | -1.42 | | |
| 4.31 | -2.86 | -6.04 | | |
| 1.26 | -4.08 | -5.48 | | |
| 1.23 | -4.66 | -6.02 | | |
| 1.03 | -3.76 | -4.87 | | |
| 161.11 | 1.96 | -1.21 | | |
| 133.85 | 1.07 | -1.84 | | |
| 121.16 | 1.07 | -1.69 | | |
| 77.12 | 1.19 | -0.91 | | |
| 60.23 | 0.65 | -1.1 | | |
| 44.07 | 0.45 | -0.84 | | |
| 6.13 | -1.61 | -0.06 | | |
| 4.46 | -3.93 | -1.93 | | |
| 4.06 | -0.79 | 1.35 | | |
| 2.53 | -1.53 | 1.3 | | |
| 1.99 | -3.74 | -0.56 | | |
| 1.66 | -3.5 | -0.07 | | |
| 1.56 | -1.86 | 1.67 | | |
| 1.39 | -0.37 | 3.32 | | |
| 1.21 | -1.21 | 2.67 | | |
| 1.05 | 0.07 | 4.16 | | |
| 1.03 | 1.35 | 5.48 | | |
| -1.13 | 1.24 | 5.59 | | |
| 3.4 | -5.1 | -8.27 | | |
| 1.47 | -3.88 | -5.84 | | |
| 1.36 | -2.17 | -4.01 | | |
| 1.14 | -0.66 | -2.25 | | |
| 1.11 | -4.25 | -5.79 | | |
| 1.1 | -3.36 | -4.9 | | |
| 1.02 | -0.6 | -2.02 | | |
| -1.03 | -3.92 | -5.28 | | |
| -1.06 | -5.42 | -6.74 | | |
| -1.13 | -4.55 | -5.78 | | |
| -1.13 | -4.4 | -5.62 | | |
| -1.14 | -0.75 | -1.97 | | |
| -1.31 | 1.09 | 0.09 | | |
| 3.18 | 1.34 | -1.8 | | |
| 1.62 | -1.04 | -3.22 | | |
| 1.59 | -0.49 | -2.63 | | |
| 1.42 | -1.2 | -3.18 | | |
| 1.2 | 3.81 | 2.08 | | |
| 1.2 | -0.36 | -2.09 | | |
| 1.14 | 3.38 | 1.72 | | |
| 1.13 | 4.8 | 3.14 | | |
| 1.12 | 2.87 | 1.23 | | |
| 1.1 | -1.19 | -2.8 | | |
| 1.07 | 1.65 | 0.07 | | |
| 1.07 | -1.09 | -2.66 | | |
| 1.04 | -0.97 | -2.51 | | |
| -1.01 | -1.82 | -3.29 | | |
| -1.04 | 1.67 | 0.24 | | |
| -1.04 | -1.26 | -2.67 | | |
| -1.09 | 1.16 | -0.19 | | |
| -1.09 | -0.89 | -2.24 | | |
| -1.1 | 0.69 | -0.65 | | |
| -1.18 | -1.82 | -3.06 | | |
| -1.18 | -1.13 | -2.37 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.21 | -1.41 | -2.62 | | |
| -1.22 | 3.5 | 2.31 | | |
| -1.24 | 4.23 | 3.06 | | |
| -1.25 | -0.06 | -1.21 | | |
| -1.27 | 0.56 | -0.57 | | |
| -1.32 | 3.4 | 2.33 | | |
| -1.37 | -1.02 | -2.04 | | |
| 4.27 | -4.29 | -7.43 | | |
| 1.49 | -3.18 | -4.8 | | |
| 1.21 | 2 | 0.68 | | |
| 1.19 | -0.79 | -2.08 | | |
| 1.13 | -2.05 | -3.26 | | |
| 1.07 | 1.05 | -0.09 | | |
| 1.05 | -4.41 | -5.53 | | |
| 2.72 | 4.7 | 1.57 | | |
| 1.78 | 0.95 | -1.57 | | |
| 1.28 | 2.77 | 0.73 | | |
| 1.25 | 0.13 | -1.88 | | |
| 1.08 | 2.8 | 1 | | |
| 1.02 | 2.35 | 0.64 | | |
| -1.04 | -1.45 | -3.08 | | |
| -1.07 | -1.22 | -2.81 | | |
| -1.11 | 1.63 | 0.08 | | |
| -1.16 | -1.15 | -2.62 | | |
| -1.25 | 0.3 | -1.07 | | |
| -1.25 | 3.27 | 1.9 | | |
| -1.25 | -0.04 | -1.4 | | |
| -6.48 | -0.13 | 0.87 | | |
| -6.54 | -0.29 | 0.73 | | |
| -8.63 | -0.25 | 1.18 | | |
| 1.79 | 1.97 | -1.15 | | |
| 1.13 | -0.23 | -2.7 | | |
| 1.09 | -1.08 | -3.5 | | |
| 1.06 | -0.92 | -3.3 | | |
| 1.03 | 1.74 | -0.6 | | |
| -1.02 | 2.78 | 0.51 | | |
| -1.01 | -1.29 | -3.56 | | |
| -1.09 | 2.48 | 0.32 | | |
| -1.12 | -1.64 | -3.76 | | |
| -1.21 | -0.07 | -2.08 | | |
| -1.21 | 0.04 | -1.96 | | |
| -1.24 | -1.47 | -3.45 | | |
| -1.28 | -1.07 | -3 | | |
| -1.4 | 1.77 | -0.04 | | |
| -1.48 | -1.35 | -3.07 | | |
| -1.5 | -1.51 | -3.22 | | |
| -1.53 | -1.85 | -3.52 | | |
| -1.56 | -1.42 | -3.07 | | |
| -1.65 | -1.58 | -3.15 | | |
| -1.7 | 2.94 | 1.42 | | |
| -1.94 | 1.39 | 0.06 | | |
| -2.07 | -1.94 | -3.18 | | |
| -2.4 | -1.64 | -2.67 | | |
| 1.15 | -0.45 | -3.57 | | |
| -1.37 | -1.41 | -3.87 | | |
| -1.59 | 1.8 | -0.45 | | |
| -1.82 | 0.09 | -1.96 | | |
| -2.24 | -1.12 | -2.87 | | |

| | | | | |
|--------|-------|-------|--|--|
| -18.12 | -0.01 | 1.25 | | |
| 1.24 | 2.77 | -0.36 | | |
| 1.18 | 3.44 | 0.39 | | |
| 1.08 | 2.47 | -0.46 | | |
| 1.03 | -1.81 | -4.66 | | |
| 1.02 | 1.23 | -1.6 | | |
| -1.09 | -2.41 | -5.09 | | |
| -1.11 | 0.69 | -1.97 | | |
| -1.16 | 4.76 | 2.16 | | |
| -1.34 | -1.31 | -3.7 | | |
| -1.38 | -2.41 | -4.76 | | |
| -1.86 | -2.37 | -4.28 | | |
| -2.41 | -0.21 | -1.75 | | |
| -2.92 | -1.29 | -2.56 | | |
| -3.11 | -1.05 | -2.22 | | |
| -3.35 | 0.25 | -0.82 | | |
| -14.78 | -1.05 | 0.02 | | |
| -15.05 | -1.95 | -0.85 | | |
| -18.9 | -1.37 | 0.06 | | |
| -45.12 | -3.08 | -0.4 | | |
| 3.27 | 0.36 | -2.76 | | |
| 2.33 | 0.41 | -2.22 | | |
| 1.93 | -1.64 | -4 | | |
| 1.41 | 1.57 | -0.34 | | |
| 1.37 | 0.2 | -1.66 | | |
| 1.34 | 0.01 | -1.82 | | |
| 1.34 | 2.12 | 0.29 | | |
| 1.28 | 0.15 | -1.62 | | |
| 1.12 | -2.93 | -4.5 | | |
| 1.11 | -1.25 | -2.81 | | |
| 1.1 | -1.29 | -2.84 | | |
| 1.1 | -0.36 | -1.9 | | |
| 1.08 | -0.04 | -1.57 | | |
| 1.07 | -0.64 | -2.15 | | |
| 1.07 | 0.17 | -1.34 | | |
| 1.07 | 0.62 | -0.88 | | |
| 1.06 | -1.53 | -3.03 | | |
| 1.05 | 1.28 | -0.2 | | |
| 1.03 | -1.42 | -2.87 | | |
| -1.01 | -3.22 | -4.62 | | |
| -1.04 | 0.38 | -0.98 | | |
| -1.05 | 0.51 | -0.82 | | |
| -1.1 | 2.88 | 1.6 | | |
| -1.1 | 0.72 | -0.55 | | |
| -1.11 | -1.47 | -2.74 | | |
| -1.14 | -0.59 | -1.81 | | |
| -1.17 | -3.31 | -4.5 | | |
| -1.2 | -1.73 | -2.88 | | |
| -1.2 | 0.73 | -0.42 | | |
| -1.29 | -0.9 | -1.94 | | |
| -1.32 | -0.92 | -1.94 | | |
| -7.18 | -1.78 | -0.35 | | |
| -9.11 | -1.69 | 0.09 | | |
| 1.16 | 5.23 | 2.11 | | |
| -1.01 | -0.84 | -3.73 | | |
| -1.14 | 2.91 | 0.2 | | |
| -1.17 | 0.74 | -1.93 | | |
| -1.22 | 0.86 | -1.76 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.28 | 2.83 | 0.28 | | |
| -1.29 | -2.15 | -4.69 | | |
| -1.34 | -2.41 | -4.9 | | |
| -1.36 | -1.93 | -4.38 | | |
| -1.37 | 4.16 | 1.72 | | |
| -1.38 | -2.55 | -4.99 | | |
| -1.41 | -0.58 | -2.98 | | |
| -1.68 | 0.93 | -1.22 | | |
| -1.87 | 1.56 | -0.44 | | |
| -2.78 | -2.65 | -4.08 | | |
| -3.43 | -0.32 | -1.45 | | |
| -3.61 | -1.82 | -2.87 | | |
| -3.68 | -2.79 | -3.81 | | |
| -18.33 | -1.54 | -0.25 | | |
| -19.87 | -1.05 | 0.36 | | |
| -24.88 | -2.01 | -0.28 | | |
| 1.69 | 0.28 | -2.83 | | |
| 1.41 | -2.93 | -5.78 | | |
| -1.16 | 2.61 | 0.47 | | |
| -1.53 | 0.68 | -1.07 | | |
| -1.64 | 0.06 | -1.59 | | |
| -2.15 | -3.56 | -4.81 | | |
| -13.83 | -1.43 | 0 | | |
| -16.42 | -1.83 | -0.15 | | |
| 1.42 | -1.15 | -4.26 | | |
| 1.33 | -0.6 | -3.62 | | |
| 1.28 | -1.2 | -4.16 | | |
| -1.33 | -2.56 | -4.76 | | |
| -1.47 | -0.74 | -2.79 | | |
| -1.46 | 0 | -2.06 | | |
| -1.61 | 0.1 | -1.81 | | |
| -1.71 | -2.32 | -4.15 | | |
| -1.97 | -5.03 | -6.65 | | |
| -2 | 0.28 | -1.32 | | |
| -2.28 | -3.29 | -4.71 | | |
| -2.35 | -2.06 | -3.44 | | |
| -2.41 | -2.2 | -3.54 | | |
| -2.89 | -1.62 | -2.7 | | |
| 9.79 | 3.89 | 0.79 | | |
| 3.41 | 0.04 | -1.54 | | |
| 3.32 | -1.46 | -3 | | |
| 2.96 | -0.78 | -2.16 | | |
| -2.88 | -3.8 | -2.08 | | |
| 1.21 | 1.6 | -1.51 | | |
| 1.19 | 6.61 | 3.53 | | |
| 1.06 | -1.47 | -4.37 | | |
| 1.04 | 0.67 | -2.22 | | |
| -1.06 | -0.91 | -3.65 | | |
| -1.09 | -0.33 | -3.03 | | |
| -1.14 | -2 | -4.64 | | |
| -1.16 | -0.58 | -3.19 | | |
| -1.45 | 0.69 | -1.6 | | |
| -1.56 | -1.43 | -3.61 | | |
| -1.85 | 2.3 | 0.37 | | |
| -2.74 | 0.13 | -1.24 | | |
| -2.96 | 3.44 | 2.18 | | |
| -3.03 | 2.6 | 1.37 | | |
| -3.09 | -0.71 | -1.9 | | |

| | | | | |
|--------|-------|-------|--|--|
| -15.65 | -0.62 | 0.52 | | |
| -15.65 | -0.62 | 0.52 | | |
| -15.81 | -1.1 | 0.06 | | |
| 8.21 | -1.34 | -4.44 | | |
| 2.48 | -0.77 | -2.15 | | |
| 2.11 | 1.07 | -0.07 | | |
| 2.05 | -4.65 | -5.75 | | |
| -2.28 | -4.48 | -3.36 | | |
| -2.61 | -4.58 | -3.26 | | |
| 6.08 | -1.36 | -4.44 | | |
| 4.66 | 0.18 | -2.53 | | |
| 2.17 | -0.51 | -2.11 | | |
| 1.49 | 0.57 | -0.49 | | |
| 4.89 | 5.05 | 1.97 | | |
| 1.19 | 1.02 | -0.02 | | |
| -4.03 | -1.8 | -0.59 | | |
| -4.69 | -1.16 | 0.28 | | |
| -7.27 | -0.72 | 1.35 | | |
| -7.97 | -1.64 | 0.56 | | |
| 1.56 | -1.35 | -4.43 | | |
| 1.08 | 2.94 | 0.39 | | |
| -1.36 | 5.19 | 3.2 | | |
| -1.55 | -2.57 | -4.37 | | |
| 3.4 | -5.13 | -8.21 | | |
| 1.99 | -0.28 | -2.59 | | |
| 1.47 | -3.9 | -5.78 | | |
| 1.36 | -2.2 | -3.96 | | |
| 1.14 | -0.69 | -2.19 | | |
| 1.11 | -4.27 | -5.73 | | |
| 1.1 | -3.39 | -4.84 | | |
| 1.02 | -0.62 | -1.96 | | |
| 1.02 | -3.19 | -4.52 | | |
| -1.03 | -3.95 | -5.22 | | |
| -1.06 | -5.45 | -6.68 | | |
| -1.13 | -4.58 | -5.72 | | |
| -1.13 | -4.42 | -5.56 | | |
| 3.4 | -5.36 | -8.44 | | |
| 2.24 | -4.12 | -6.6 | | |
| 1.47 | -4.14 | -6.01 | | |
| 1.28 | -0.48 | -2.14 | | |
| 1.11 | -4.5 | -5.96 | | |
| -1.08 | -5.76 | -6.97 | | |
| -1.2 | -3.89 | -4.94 | | |
| -1.24 | -4.06 | -5.06 | | |
| 4.07 | 4.88 | 1.81 | | |
| 1.68 | 1.53 | -0.26 | | |
| 1.15 | 0.47 | -0.77 | | |
| 1.08 | 0.16 | -0.99 | | |
| 1.08 | 2.83 | 1.68 | | |
| 1.07 | 0.29 | -0.85 | | |
| -1.02 | 0.72 | -0.3 | | |
| 1.73 | 1.73 | -1.35 | | |
| 1 | -5.08 | -7.36 | | |
| -1.09 | -3.35 | -5.5 | | |
| 2.33 | -0.15 | -3.22 | | |
| 1.9 | 1.82 | -0.95 | | |
| 1.18 | 2.46 | 0.37 | | |
| 1.06 | 1.09 | -0.85 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.08 | -0.62 | -2.36 | | |
| -1.08 | 2.85 | 1.11 | | |
| -1.17 | 2.96 | 1.33 | | |
| -1.21 | 1.68 | 0.1 | | |
| -1.22 | -1.07 | -2.64 | | |
| -1.45 | -0.78 | -2.09 | | |
| -1.56 | 1.78 | 0.57 | | |
| -7.31 | 2.18 | 3.2 | | |
| -7.46 | 1.51 | 2.56 | | |
| -7.89 | 2.65 | 3.78 | | |
| -8.08 | 3.89 | 5.05 | | |
| -8.48 | 0.48 | 1.71 | | |
| -8.52 | 0.76 | 2 | | |
| -9.97 | 0.83 | 2.3 | | |
| -13.86 | -0.34 | 1.6 | | |
| -14.27 | 1.41 | 3.39 | | |
| -16.23 | -1.44 | 0.73 | | |
| 2.67 | -0.51 | -3.58 | | |
| 1.6 | 2.07 | -0.26 | | |
| 1.29 | -0.63 | -2.65 | | |
| 1.21 | 2.4 | 0.47 | | |
| 1.06 | 2.57 | 0.83 | | |
| 1.05 | -1.18 | -2.9 | | |
| 1.04 | -0.77 | -2.47 | | |
| 1.03 | -0.48 | -2.18 | | |
| -1 | 6.8 | 5.15 | | |
| -1.04 | 2.07 | 0.48 | | |
| -1.15 | 1.05 | -0.4 | | |
| -1.16 | -0.36 | -1.8 | | |
| -1.19 | -0.16 | -1.56 | | |
| -1.24 | 0.65 | -0.7 | | |
| -1.25 | 2.53 | 1.2 | | |
| -1.26 | 1.73 | 0.41 | | |
| -1.28 | -0.99 | -2.29 | | |
| -1.4 | 1.86 | 0.69 | | |
| -1.4 | 0.41 | -0.76 | | |
| 9.47 | 2.49 | -0.57 | | |
| 2.46 | 3.62 | 2.5 | | |
| -2.03 | -0.47 | 0.73 | | |
| -3.85 | 0.52 | 2.65 | | |
| 3.93 | -1.4 | -4.45 | | |
| 2.07 | -2.58 | -4.71 | | |
| 1.63 | 0.46 | -1.33 | | |
| 1.36 | 0.7 | -0.83 | | |
| 1.31 | 2.49 | 1.02 | | |
| 1.17 | 2.09 | 0.78 | | |
| 1.15 | 3.73 | 2.45 | | |
| 1.14 | -0.38 | -1.65 | | |
| 1.12 | 2.62 | 1.37 | | |
| 1.07 | 4.07 | 2.89 | | |
| 1.03 | 0.59 | -0.54 | | |
| 1.01 | 1.4 | 0.3 | | |
| -5.94 | -2.56 | -1.07 | | |
| -6.32 | -2.64 | -1.06 | | |
| -9.13 | -3.39 | -1.28 | | |
| 2.2 | 0.83 | -2.23 | | |
| 1.68 | 3.69 | 1.01 | | |
| 1.19 | -0.82 | -2.99 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.18 | -1.32 | -3.48 | | |
| 1.01 | -1.26 | -3.21 | | |
| 1 | -1.23 | -3.16 | | |
| -1.01 | -1.68 | -3.59 | | |
| -1.09 | 1.49 | -0.31 | | |
| -1.11 | 0.79 | -0.98 | | |
| -1.36 | -0.36 | -1.84 | | |
| -1.56 | -1.02 | -2.3 | | |
| -1.88 | -0.11 | -1.12 | | |
| -10.27 | -0.51 | 0.93 | | |
| 18.04 | 0.81 | -2.24 | | |
| 6.84 | 0.4 | -1.25 | | |
| 5.24 | 0.43 | -0.83 | | |
| 1.06 | -3.07 | -2.03 | | |
| -1.03 | -0.05 | 1.11 | | |
| -1.04 | 5.45 | 6.63 | | |
| 1.38 | -3.66 | -6.7 | | |
| 1.11 | -3.98 | -6.71 | | |
| 1.04 | 3.78 | 1.14 | | |
| -1.11 | -3.99 | -6.42 | | |
| -1.2 | 1.79 | -0.53 | | |
| -1.42 | -4.08 | -6.15 | | |
| -1.47 | -4.12 | -6.14 | | |
| -1.68 | -4.48 | -6.31 | | |
| -2.49 | -3.68 | -4.94 | | |
| -2.65 | 1.03 | -0.15 | | |
| -13.46 | -1.72 | -0.55 | | |
| 1.58 | -2.3 | -5.34 | | |
| 1.15 | -0.37 | -2.96 | | |
| 1.01 | -1.99 | -4.4 | | |
| -1.02 | -2.98 | -5.33 | | |
| -1.04 | -4.77 | -7.1 | | |
| -1.04 | -0.94 | -3.26 | | |
| -1.22 | -1.2 | -3.29 | | |
| -1.26 | -3.44 | -5.5 | | |
| -1.31 | -3.25 | -5.25 | | |
| -1.41 | -0.38 | -2.28 | | |
| -1.97 | -3.78 | -5.19 | | |
| -14.32 | -3.95 | -2.5 | | |
| 3.18 | -0.82 | -3.86 | | |
| 1.45 | -2.03 | -3.93 | | |
| 1.27 | 1.93 | 0.22 | | |
| -1.01 | -1.08 | -2.45 | | |
| -1.02 | 4.79 | 3.45 | | |
| -1.08 | 0.29 | -0.97 | | |
| -1.11 | -0.32 | -1.54 | | |
| -1.13 | -0.14 | -1.34 | | |
| -1.21 | 1.38 | 0.29 | | |
| -1.24 | 2.84 | 1.79 | | |
| -1.29 | 2.02 | 1.01 | | |
| -8 | -1.68 | -0.05 | | |
| -18.04 | -3.05 | -0.25 | | |
| 2.56 | -3.59 | -6.64 | | |
| 1.04 | -5.08 | -6.82 | | |
| 1.03 | 1.18 | -0.56 | | |
| -1 | -2.79 | -4.47 | | |
| -1.45 | -0.46 | -1.61 | | |
| -6.63 | -2.16 | -1.12 | | |

| | | | | |
|-------|-------|-------|--|--|
| -8.73 | -1.9 | -0.46 | | |
| -9.53 | -3.92 | -2.35 | | |
| 1.17 | 3.02 | -0.01 | | |
| -1.06 | 7.82 | 5.09 | | |
| -1.2 | 3.53 | 0.98 | | |
| -1.22 | 3.26 | 0.73 | | |
| -1.3 | -2.81 | -5.25 | | |
| -1.31 | 4.8 | 2.37 | | |
| -1.31 | 4.8 | 2.37 | | |
| -1.32 | -1.4 | -3.82 | | |
| -2.18 | 0.29 | -1.4 | | |
| -2.2 | -0.59 | -2.27 | | |
| -3.02 | 0.85 | -0.37 | | |
| -3.13 | 3.43 | 2.27 | | |
| -3.26 | -0.89 | -1.99 | | |
| -3.32 | -0.29 | -1.37 | | |
| 1.04 | -2 | -5.04 | | |
| -1.12 | -0.05 | -2.88 | | |
| -1.3 | 0.32 | -2.28 | | |
| -1.35 | -0.27 | -2.82 | | |
| -1.39 | -0.51 | -3.02 | | |
| -2.31 | -1.27 | -3.04 | | |
| 3.9 | -1.21 | -4.23 | | |
| 1.34 | -3.81 | -5.29 | | |
| 1.32 | -1.58 | -3.04 | | |
| 1.19 | -0.01 | -1.32 | | |
| 1.05 | -1.94 | -3.06 | | |
| -1.02 | -2.06 | -3.09 | | |
| 7.34 | -0.49 | -3.51 | | |
| 2.55 | -2.25 | -3.75 | | |
| 1.98 | -1.16 | -2.28 | | |
| 2.21 | -4.77 | -7.78 | | |
| 1.42 | -2.54 | -4.91 | | |
| 1.4 | -3.44 | -5.79 | | |
| 1.39 | -3.02 | -5.35 | | |
| 1.1 | -1.79 | -3.79 | | |
| 1.08 | -4.67 | -6.65 | | |
| 1.03 | -3.36 | -5.27 | | |
| 1.03 | -3.17 | -5.07 | | |
| -1 | -3.14 | -5 | | |
| -1.06 | -6.27 | -8.06 | | |
| -1.08 | -6.08 | -7.83 | | |
| -1.09 | -5.9 | -7.65 | | |
| -1.09 | -1.12 | -2.86 | | |
| -1.1 | -1.94 | -3.66 | | |
| -1.11 | -3.85 | -5.57 | | |
| -1.21 | -5.85 | -7.44 | | |
| -1.27 | -4.38 | -5.9 | | |
| -1.47 | -2.36 | -3.66 | | |
| -1.49 | -1.45 | -2.73 | | |
| -1.5 | -2.64 | -3.91 | | |
| -1.59 | -3.51 | -4.71 | | |
| -1.74 | -4.21 | -5.27 | | |
| -1.79 | -3.45 | -4.47 | | |
| -7.27 | -5 | -4 | | |
| -7.36 | -5.38 | -4.36 | | |
| -8.67 | -4.94 | -3.69 | | |
| -10 | -5.65 | -4.19 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.12 | -0.14 | -3.13 | | |
| 1.48 | -0.15 | -2.63 | | |
| 1.31 | -0.7 | -3 | | |
| 1.3 | -1.81 | -4.09 | | |
| 1.23 | -0.34 | -2.55 | | |
| 1.08 | -3.29 | -5.31 | | |
| 1.02 | -1.12 | -3.06 | | |
| -1.08 | -1.88 | -3.68 | | |
| -1.13 | -3.82 | -5.56 | | |
| -1.18 | -3.15 | -4.83 | | |
| -1.26 | -2.7 | -4.28 | | |
| -1.36 | -3.52 | -4.99 | | |
| -1.42 | 0.99 | -0.41 | | |
| -1.5 | -2.11 | -3.43 | | |
| -1.57 | -1.22 | -2.48 | | |
| -1.74 | -0.44 | -1.55 | | |
| -9.56 | -2.81 | -1.47 | | |
| 1.38 | -1.8 | -4.79 | | |
| 1.04 | -1.22 | -3.8 | | |
| -2.02 | 1.94 | 0.43 | | |
| -2.47 | 0.87 | -0.35 | | |
| -2.5 | -3.95 | -5.15 | | |
| -11.72 | -2.58 | -1.55 | | |
| -12.42 | -2.15 | -1.04 | | |
| -19.37 | -1.53 | 0.23 | | |
| 2.14 | 1.2 | -1.79 | | |
| 1.85 | -3.01 | -5.8 | | |
| 1.44 | -1.96 | -4.38 | | |
| 1.33 | -0.19 | -2.49 | | |
| 1.19 | -0.61 | -2.75 | | |
| 1.15 | -0.78 | -2.88 | | |
| 1.14 | -0.71 | -2.8 | | |
| 1.12 | 0.07 | -1.99 | | |
| 1.01 | -2.61 | -4.51 | | |
| -1.09 | -0.31 | -2.08 | | |
| -1.12 | -1.04 | -2.78 | | |
| -1.27 | -1.8 | -3.35 | | |
| -1.4 | -1.05 | -2.46 | | |
| -1.42 | -2.89 | -4.28 | | |
| -1.58 | -1.84 | -3.07 | | |
| -1.7 | -1.92 | -3.05 | | |
| -1.69 | -4.31 | -5.44 | | |
| -1.73 | -1.02 | -2.13 | | |
| -8.33 | -0.89 | 0.27 | | |
| 14.56 | 1.13 | -1.86 | | |
| 9.34 | 1.44 | -0.91 | | |
| 7.66 | 2.1 | 0.04 | | |
| 6.05 | 2.52 | 0.8 | | |
| 5.08 | 1.46 | -0.01 | | |
| -1.88 | 1.14 | 2.92 | | |
| 6.2 | -3.57 | -6.55 | | |
| 2.25 | -5.94 | -7.46 | | |
| 2.23 | 0.9 | -0.61 | | |
| 2.08 | -3.62 | -5.03 | | |
| 1.89 | -4.63 | -5.9 | | |
| 1.78 | -3.17 | -4.35 | | |
| -3.03 | -7.05 | -5.8 | | |
| -3.78 | -6.51 | -4.94 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.72 | 2.96 | -0.02 | | |
| 1.35 | 1.76 | -0.89 | | |
| 1.28 | 6.01 | 3.44 | | |
| 1.06 | 0.87 | -1.41 | | |
| 1 | 4.18 | 1.97 | | |
| -1.11 | 0.49 | -1.57 | | |
| -1.13 | 1.22 | -0.81 | | |
| -1.3 | 1.29 | -0.54 | | |
| -1.33 | 0.04 | -1.75 | | |
| -1.34 | 5.44 | 3.66 | | |
| -1.34 | 0.92 | -0.86 | | |
| -1.45 | 1.33 | -0.34 | | |
| -1.52 | 2.85 | 1.25 | | |
| -1.58 | 1.03 | -0.51 | | |
| -1.65 | 1.51 | 0.03 | | |
| -1.68 | -1.38 | -2.84 | | |
| -2.04 | -2.73 | -3.91 | | |
| -9.73 | -2.63 | -1.55 | | |
| -9.78 | -0.08 | 1.01 | | |
| -11.63 | -2.3 | -0.97 | | |
| -11.86 | 0.7 | 2.06 | | |
| -11.93 | -0.6 | 0.77 | | |
| -13.21 | 1.01 | 2.53 | | |
| -14.38 | 0.34 | 1.98 | | |
| -15.89 | -0.03 | 1.75 | | |
| -22.07 | -1.74 | 0.52 | | |
| 1.25 | 1.7 | -1.28 | | |
| -1.03 | -1.96 | -4.58 | | |
| -1.07 | -3.19 | -5.75 | | |
| -1.14 | -2.03 | -4.5 | | |
| -1.14 | -0.28 | -2.75 | | |
| -1.18 | -1.82 | -4.24 | | |
| -1.24 | -2.34 | -4.69 | | |
| -1.26 | 1.21 | -1.12 | | |
| -1.42 | 0.17 | -1.98 | | |
| -1.44 | -0.96 | -3.08 | | |
| -1.49 | -1.98 | -4.07 | | |
| -2.02 | -1.37 | -3.02 | | |
| -2.27 | 0.69 | -0.78 | | |
| -12.82 | -0.41 | 0.62 | | |
| 6.58 | 1.11 | -1.86 | | |
| 3.92 | -1.68 | -3.9 | | |
| 1.7 | -3.61 | -4.62 | | |
| -2.57 | -5.37 | -4.25 | | |
| -2.94 | -3.89 | -2.58 | | |
| 6.12 | 3.9 | 0.94 | | |
| -2.68 | -4.49 | -3.41 | | |
| -3.2 | -1.96 | -0.63 | | |
| 3.4 | -5.27 | -8.23 | | |
| 1.18 | 0.98 | -0.45 | | |
| 1.17 | -5.63 | -7.05 | | |
| 1.11 | -3.8 | -5.15 | | |
| 1.04 | -0.41 | -1.66 | | |
| -1.13 | -5.24 | -6.26 | | |
| -7.32 | -2.68 | -1 | | |
| 1.93 | -1.21 | -4.17 | | |
| 1.03 | -0.2 | -2.25 | | |
| -1.1 | -2.91 | -4.78 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.13 | 5.69 | 3.85 | | |
| -1.13 | -3.38 | -5.21 | | |
| -1.36 | -3.42 | -4.98 | | |
| -1.56 | -3.75 | -5.12 | | |
| -1.82 | 1.15 | 0 | | |
| -1.96 | -1.71 | -2.75 | | |
| 1.63 | 1.23 | -1.72 | | |
| 1.04 | 2.36 | 0.05 | | |
| 1.03 | 2.05 | -0.25 | | |
| 1.02 | 2.52 | 0.25 | | |
| -1.01 | 2.89 | 0.65 | | |
| -1.09 | 0.33 | -1.78 | | |
| -1.1 | 0.29 | -1.82 | | |
| -1.24 | 0 | -1.95 | | |
| -1.25 | 2.56 | 0.64 | | |
| -1.28 | -3.14 | -5.03 | | |
| -1.32 | 1.86 | 0.01 | | |
| -1.35 | 0.34 | -1.47 | | |
| -1.39 | -1.49 | -3.27 | | |
| -1.4 | 1.85 | 0.09 | | |
| -1.42 | -0.49 | -2.24 | | |
| -1.57 | -2.02 | -3.61 | | |
| -1.58 | -4 | -5.59 | | |
| -1.81 | -0.82 | -2.21 | | |
| -2.02 | -0.06 | -1.29 | | |
| -2.12 | 0.6 | -0.57 | | |
| -10.05 | -1.38 | -0.3 | | |
| -10.28 | -1.66 | -0.55 | | |
| -11.18 | -1.72 | -0.49 | | |
| -14 | -4.66 | -3.1 | | |
| -16.36 | -2.83 | -1.04 | | |
| -19.57 | -3.87 | -1.82 | | |
| 5.15 | 0.06 | -2.89 | | |
| 2.8 | -0.2 | -2.27 | | |
| 2.55 | 0.82 | -1.12 | | |
| 1.79 | 3.81 | 2.38 | | |
| 1.45 | 1.4 | 0.28 | | |
| 1.39 | -0.81 | -1.87 | | |
| 1.38 | 0.41 | -0.65 | | |
| 1.34 | 0.75 | -0.26 | | |
| 1.34 | 3.46 | 2.45 | | |
| 39.48 | 2.4 | -0.55 | | |
| 34.1 | 1.33 | -1.41 | | |
| 21 | 1.38 | -0.67 | | |
| 20.74 | 1.44 | -0.58 | | |
| 18.91 | 2.17 | 0.28 | | |
| 17.86 | -0.54 | -2.34 | | |
| 15.72 | 1.27 | -0.35 | | |
| 15.01 | 1.6 | 0.05 | | |
| 14.22 | 1.82 | 0.34 | | |
| 12.32 | 0.44 | -0.83 | | |
| 11.77 | 1.49 | 0.28 | | |
| 11.4 | -1.09 | -2.25 | | |
| 11.06 | -0.43 | -1.55 | | |
| 10.4 | -0.61 | -1.63 | | |
| 2.49 | -2.28 | -1.24 | | |
| 2.16 | -2.41 | -1.16 | | |
| 2.14 | 0.89 | 2.14 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.1 | -1.01 | 0.27 | | |
| 2.09 | -2.83 | -1.54 | | |
| 2.09 | -3.96 | -2.67 | | |
| 1.96 | 0.2 | 1.58 | | |
| 1.9 | -0.21 | 1.21 | | |
| 1.88 | -2.32 | -0.89 | | |
| 1.88 | -1.22 | 0.21 | | |
| 1.84 | -2.84 | -1.37 | | |
| 1.84 | -0.1 | 1.37 | | |
| 1.81 | 0.96 | 2.46 | | |
| 1.78 | 1.49 | 3 | | |
| 1.77 | -0.92 | 0.6 | | |
| 1.73 | -1.09 | 0.47 | | |
| 1.7 | -1.12 | 0.46 | | |
| 1.7 | -0.14 | 1.44 | | |
| 1.7 | -3.29 | -1.7 | | |
| 1.64 | 4.8 | 6.44 | | |
| 1.62 | -0.29 | 1.37 | | |
| 1.58 | -3.11 | -1.42 | | |
| 1.42 | 1.2 | 3.05 | | |
| 1.36 | -0.99 | 0.92 | | |
| 1.34 | 0.46 | 2.39 | | |
| 1.34 | 0.55 | 2.48 | | |
| 1.32 | -0.39 | 1.55 | | |
| 1.32 | -3.78 | -1.83 | | |
| 1.3 | -0.27 | 1.7 | | |
| 1.27 | -1.46 | 0.55 | | |
| 1.25 | -0.23 | 1.8 | | |
| 1.22 | -0.48 | 1.58 | | |
| 1.21 | 0.46 | 2.54 | | |
| 1.21 | 1.39 | 3.47 | | |
| 1.19 | 0.11 | 2.21 | | |
| 1.19 | -0.6 | 1.49 | | |
| 1.18 | -0.24 | 1.88 | | |
| 1.17 | 0.62 | 2.75 | | |
| 1.16 | -0.42 | 1.71 | | |
| 1.14 | -0.16 | 2 | | |
| 1.14 | -1 | 1.17 | | |
| 1.1 | -1.92 | 0.29 | | |
| 1.07 | 0.33 | 2.58 | | |
| 1.02 | -3.68 | -1.35 | | |
| -1.04 | -0.24 | 2.16 | | |
| -1.05 | 3.41 | 5.84 | | |
| -1.08 | -1.39 | 1.07 | | |
| -1.11 | 0.68 | 3.19 | | |
| -1.18 | -0.43 | 2.16 | | |
| -1.25 | -3.53 | -0.85 | | |
| -1.28 | -1.07 | 1.64 | | |
| -1.35 | -4.36 | -1.58 | | |
| -1.36 | -3.38 | -0.58 | | |
| -1.37 | -2.14 | 0.66 | | |
| -1.5 | -4.69 | -1.76 | | |
| -1.59 | -3.77 | -0.75 | | |
| 33.25 | 1.82 | -1.13 | | |
| 20.8 | 1.81 | -0.46 | | |
| 15.28 | 1.21 | -0.62 | | |
| 12.08 | 0.49 | -1 | | |
| 11.32 | 1.03 | -0.37 | | |

| | | | | |
|--------|-------|-------|--|--|
| 10.29 | 0.2 | -1.06 | | |
| 9.82 | 0.91 | -0.28 | | |
| 8.92 | 1.55 | 0.49 | | |
| 8.6 | -0.28 | -1.28 | | |
| 2.01 | -0.34 | 0.76 | | |
| 1.99 | 2.3 | 3.41 | | |
| 1.97 | 0.72 | 1.85 | | |
| 1.95 | -1.4 | -0.27 | | |
| 1.84 | -1.51 | -0.29 | | |
| 1.79 | 0.19 | 1.45 | | |
| 1.72 | -1.29 | 0.03 | | |
| 1.64 | -3.11 | -1.72 | | |
| 1.58 | 0.51 | 1.95 | | |
| 1.44 | 0.93 | 2.5 | | |
| 1.36 | 3.28 | 4.94 | | |
| 1.36 | -3.1 | -1.44 | | |
| 1.25 | 2.66 | 4.44 | | |
| 1.22 | 2.54 | 4.35 | | |
| 1.18 | -0.67 | 1.19 | | |
| 1.15 | 2.06 | 3.97 | | |
| 1.13 | 1.79 | 3.72 | | |
| 1.13 | -2.27 | -0.35 | | |
| 1.07 | 4.92 | 6.94 | | |
| 1.06 | 4.42 | 6.45 | | |
| 1.06 | 0.87 | 2.89 | | |
| 1.05 | -2.16 | -0.13 | | |
| -1.01 | 1.26 | 3.37 | | |
| -1.06 | 2.42 | 4.61 | | |
| -1.09 | 2.54 | 4.76 | | |
| -1.1 | 4.55 | 6.79 | | |
| -1.14 | 2.1 | 4.4 | | |
| -1.21 | -3.12 | -0.74 | | |
| 12.03 | 1.59 | -1.36 | | |
| 7.8 | 1.26 | -1.06 | | |
| 4.03 | 1.61 | 0.24 | | |
| 3.32 | 1.72 | 0.63 | | |
| -1.29 | -0.68 | 0.33 | | |
| -1.48 | -0.84 | 0.37 | | |
| -1.77 | 3.19 | 4.66 | | |
| -1.81 | 1.25 | 2.75 | | |
| -2.85 | -4.27 | -2.12 | | |
| 2.58 | 0.93 | -2.01 | | |
| 2 | 0.34 | -2.23 | | |
| 1.44 | 1.2 | -0.9 | | |
| -1.07 | -1.48 | -2.95 | | |
| -1.11 | -0.49 | -1.9 | | |
| -1.27 | 1.79 | 0.56 | | |
| -1.4 | -1.42 | -2.5 | | |
| -6.13 | -2.34 | -1.29 | | |
| -6.49 | -2.08 | -0.95 | | |
| -6.84 | -2.44 | -1.23 | | |
| -7.05 | -1.58 | -0.34 | | |
| -10.28 | -2.72 | -0.93 | | |
| 1.87 | 2.46 | -0.48 | | |
| 1.61 | 1.54 | -1.18 | | |
| 1.23 | 4.02 | 1.69 | | |
| 1.11 | 2.66 | 0.47 | | |
| 1.04 | 2.18 | 0.09 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.06 | 0.35 | -1.6 | | |
| -1.14 | 0.2 | -1.64 | | |
| -1.15 | -0.86 | -2.7 | | |
| -1.28 | -0.77 | -2.45 | | |
| -1.33 | 2.62 | 1 | | |
| -1.35 | 0.89 | -0.71 | | |
| -1.48 | -0.37 | -1.84 | | |
| -1.58 | 1.83 | 0.45 | | |
| -1.61 | 0.67 | -0.68 | | |
| -1.66 | -0.76 | -2.06 | | |
| -1.69 | -0.75 | -2.02 | | |
| -1.7 | 1.07 | -0.2 | | |
| -1.73 | 1.18 | -0.06 | | |
| -1.75 | -0.4 | -1.63 | | |
| -1.84 | -0.74 | -1.9 | | |
| -2.03 | 0.72 | -0.29 | | |
| -8.17 | -0.38 | 0.62 | | |
| 11.1 | -2.47 | -5.4 | | |
| 9.92 | -5.78 | -8.55 | | |
| 7.84 | -2.07 | -4.5 | | |
| 7.78 | -4.11 | -6.53 | | |
| 5.97 | -1.27 | -3.31 | | |
| 4.95 | -1.08 | -2.84 | | |
| 4.83 | -4.68 | -6.41 | | |
| 4.76 | -2.27 | -3.98 | | |
| 3.73 | -3.13 | -4.49 | | |
| 3.54 | -3.51 | -4.79 | | |
| 3.09 | -3.73 | -4.81 | | |
| 6.07 | 0.09 | -2.84 | | |
| 1.67 | 1.27 | 0.2 | | |
| -2.66 | -2.91 | -1.83 | | |
| 8.77 | -1.25 | -4.17 | | |
| -1.74 | -4.78 | -3.77 | | |
| 2.23 | 1.49 | -1.43 | | |
| 1.47 | -0.13 | -2.45 | | |
| 1.23 | -0.92 | -2.99 | | |
| 1.04 | 1.79 | -0.03 | | |
| 1.03 | -0.16 | -1.97 | | |
| -7.24 | -0.09 | 0.99 | | |
| -7.38 | -0.74 | 0.37 | | |
| -8.5 | 0.01 | 1.33 | | |
| -15.11 | -1.68 | 0.47 | | |
| 2.1 | -2.35 | -5.28 | | |
| 1.31 | -1.93 | -4.16 | | |
| 1.03 | -3.17 | -5.07 | | |
| -1.14 | -1.8 | -3.46 | | |
| -1.16 | 0.08 | -1.56 | | |
| -1.3 | -4.33 | -5.8 | | |
| -1.77 | -5.16 | -6.19 | | |
| 2.04 | 1.8 | -1.12 | | |
| 1.54 | -1.5 | -4.01 | | |
| 1.34 | 2.41 | 0.11 | | |
| 1.01 | 3.05 | 1.14 | | |
| -1.08 | 0.85 | -0.93 | | |
| -1.1 | 1.89 | 0.13 | | |
| -1.2 | 0.78 | -0.85 | | |
| -1.21 | -0.74 | -2.35 | | |
| -1.26 | 1.81 | 0.25 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.29 | 2.69 | 1.17 | | |
| -1.39 | 3.09 | 1.68 | | |
| -1.49 | 2.75 | 1.43 | | |
| -1.57 | 0.64 | -0.6 | | |
| -1.59 | 1.57 | 0.34 | | |
| -1.59 | 0.76 | -0.46 | | |
| -1.68 | 0.62 | -0.53 | | |
| -7.86 | -0.9 | 0.18 | | |
| -8.26 | -1.01 | 0.15 | | |
| -12.19 | -0.87 | 0.85 | | |
| -13.23 | -1.26 | 0.58 | | |
| -16.54 | -3.22 | -1.06 | | |
| -16.58 | -2.51 | -0.35 | | |
| -18.55 | -1.92 | 0.4 | | |
| -20.69 | -1.83 | 0.65 | | |
| -21.82 | -1.23 | 1.32 | | |
| -23.04 | -1.14 | 1.5 | | |
| -24.61 | -1.45 | 1.28 | | |
| -24.93 | -1.86 | 0.89 | | |
| -34.95 | -2.08 | 1.15 | | |
| -88.81 | -2.92 | 1.66 | | |
| 4.33 | 2.28 | -0.63 | | |
| 1.88 | 3.22 | 1.51 | | |
| 1.76 | 4.85 | 3.24 | | |
| 1.38 | -0.43 | -1.7 | | |
| 1.16 | 0.25 | -0.75 | | |
| -3.77 | -0.88 | 0.24 | | |
| -4.55 | -0.69 | 0.7 | | |
| -4.89 | -1.64 | -0.15 | | |
| 1.7 | 1.31 | -1.6 | | |
| 1.07 | 2.78 | 0.54 | | |
| -1.52 | 2.24 | 0.7 | | |
| -1.6 | -1.97 | -3.44 | | |
| -12.64 | -1.51 | 0 | | |
| -12.88 | -0.83 | 0.71 | | |
| -23.66 | -0.86 | 1.56 | | |
| 3.4 | -5.29 | -8.2 | | |
| 1.17 | -5.65 | -7.03 | | |
| 1.15 | 0.67 | -0.68 | | |
| 1.11 | -3.82 | -5.12 | | |
| 1.04 | -0.44 | -1.63 | | |
| -1.09 | -2.89 | -3.91 | | |
| -4.47 | -2.12 | -1.1 | | |
| -7.32 | -2.7 | -0.97 | | |
| 7.1 | -3.52 | -6.42 | | |
| 6.12 | -5.12 | -7.82 | | |
| 5.22 | -4.17 | -6.63 | | |
| 4.6 | -3.49 | -5.77 | | |
| 4.35 | -5.42 | -7.62 | | |
| 4.32 | -3.93 | -6.13 | | |
| 3.97 | -3.65 | -5.72 | | |
| 3.96 | -2.9 | -4.97 | | |
| 3.27 | -6.42 | -8.21 | | |
| 3.13 | -6.63 | -8.35 | | |
| 2.79 | -3.65 | -5.21 | | |
| 2.53 | -6.15 | -7.57 | | |
| -2.29 | -5.82 | -4.71 | | |
| 22.35 | -0.15 | -3.05 | | |

| | | | | |
|--------|-------|-------|--|--|
| 15.04 | -0.52 | -2.85 | | |
| 6.69 | 0.98 | -0.18 | | |
| 6.34 | -0.12 | -1.2 | | |
| 6.26 | -0.69 | -1.75 | | |
| 6.25 | 0.8 | -0.26 | | |
| 6.18 | 0.78 | -0.27 | | |
| 1.4 | -1.62 | -0.52 | | |
| 1.38 | -0.8 | 0.32 | | |
| 1.32 | -0.51 | 0.66 | | |
| 1.12 | -4.15 | -2.73 | | |
| 1.1 | -2.28 | -0.84 | | |
| 1.07 | -3.5 | -2.02 | | |
| 1.05 | -0.19 | 1.32 | | |
| 1.04 | -4.59 | -3.06 | | |
| -1.03 | -0.82 | 0.79 | | |
| -1.16 | -1.92 | -0.12 | | |
| -1.27 | -2.65 | -0.73 | | |
| 1.08 | 0.17 | -2.73 | | |
| -1.01 | 1.07 | -1.71 | | |
| -1.14 | -1.43 | -4.03 | | |
| -1.57 | 1.82 | -0.32 | | |
| -1.96 | 0.93 | -0.88 | | |
| -2.01 | -3.35 | -5.12 | | |
| -2.27 | -2.92 | -4.52 | | |
| -2.56 | -0.72 | -2.15 | | |
| -2.86 | -3.17 | -4.44 | | |
| -13.77 | -1.05 | -0.06 | | |
| -14.55 | -1.17 | -0.09 | | |
| -15.33 | -1.77 | -0.62 | | |
| 8.93 | -5.54 | -8.43 | | |
| -1.7 | -6.05 | -5.03 | | |
| 3.3 | -0.77 | -3.67 | | |
| 1.36 | 3.69 | 2.08 | | |
| 1.2 | 6.83 | 5.4 | | |
| 1.12 | 2.83 | 1.49 | | |
| 1.08 | 1.7 | 0.42 | | |
| 1.06 | -1.03 | -2.29 | | |
| 9.41 | -0.16 | -3.05 | | |
| 2.95 | 0.92 | -0.3 | | |
| -1.8 | -2.98 | -1.79 | | |
| -1.87 | -3.31 | -2.06 | | |
| -2.11 | -3.83 | -2.41 | | |
| 3.23 | -1.9 | -4.79 | | |
| 1.89 | -4.07 | -6.19 | | |
| 1.59 | 1.95 | 0.09 | | |
| 1.39 | 3.57 | 1.89 | | |
| 1.39 | 3.37 | 1.7 | | |
| 1.35 | 3.56 | 1.92 | | |
| 1.33 | 1.98 | 0.37 | | |
| 1.31 | -2.76 | -4.36 | | |
| 1.21 | -0.78 | -2.26 | | |
| 1.2 | 0.52 | -0.94 | | |
| 1.15 | 5.84 | 4.43 | | |
| 1.13 | -2.47 | -3.86 | | |
| 1.11 | -4.32 | -5.68 | | |
| 1.09 | -2.4 | -3.73 | | |
| 1.05 | -4.68 | -5.95 | | |
| 1.01 | -2.24 | -3.46 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.01 | 1.16 | -0.05 | | |
| -1.03 | -1.02 | -2.18 | | |
| -1.04 | -0.32 | -1.47 | | |
| -1.09 | -0.43 | -1.5 | | |
| -1.1 | -2.87 | -3.93 | | |
| -1.11 | -2.05 | -3.1 | | |
| -1.12 | 2.34 | 1.3 | | |
| -1.15 | -1.86 | -2.87 | | |
| 21.43 | 1.91 | -0.98 | | |
| 8.85 | 0.52 | -1.09 | | |
| 6.54 | 0.37 | -0.81 | | |
| 5.78 | -2.23 | -3.22 | | |
| 1.14 | -1.15 | 0.2 | | |
| 1.06 | -1.55 | -0.1 | | |
| 1.06 | 2.52 | 3.98 | | |
| 1.05 | 0.24 | 1.7 | | |
| 1.04 | -1.27 | 0.21 | | |
| 1.01 | -2.59 | -1.06 | | |
| -1.03 | -3.19 | -1.62 | | |
| -1.04 | -3.53 | -1.94 | | |
| -1.1 | -0.72 | 0.95 | | |
| -1.2 | -2.09 | -0.29 | | |
| -1.8 | -2.49 | -0.11 | | |
| -2.51 | -2.6 | 0.26 | | |
| 12.12 | 3.07 | 0.18 | | |
| 10.13 | 2.3 | -0.33 | | |
| 7.69 | 2.2 | -0.03 | | |
| 6.02 | 2.58 | 0.71 | | |
| 3.74 | 1.16 | -0.03 | | |
| 3.43 | 1.68 | 0.62 | | |
| -1.24 | -2.28 | -1.25 | | |
| 2.83 | -1.5 | -4.38 | | |
| 1.45 | -0.52 | -2.43 | | |
| 1.11 | 1.88 | 0.35 | | |
| 1.04 | -1.87 | -3.3 | | |
| 1.02 | -2.04 | -3.45 | | |
| -1.12 | -2.03 | -3.24 | | |
| -1.18 | 5.39 | 4.25 | | |
| -1.2 | -0.75 | -1.87 | | |
| -1.23 | -1.31 | -2.39 | | |
| 4.96 | -5.71 | -8.59 | | |
| -3.85 | -6.03 | -4.65 | | |
| -6.41 | -7.4 | -5.3 | | |
| 4.64 | -2.39 | -5.27 | | |
| 1.34 | -1.24 | -2.32 | | |
| 1.4 | -3.28 | -6.15 | | |
| 1.36 | -1.75 | -4.58 | | |
| 1.22 | -0.45 | -3.12 | | |
| 1.21 | -3.21 | -5.87 | | |
| -13.43 | -6.41 | -5.05 | | |
| 1.3 | -0.19 | -3.06 | | |
| 1.05 | 0.34 | -2.22 | | |
| -1.3 | -3.27 | -5.38 | | |
| -1.32 | -0.5 | -2.59 | | |
| -1.88 | -0.14 | -1.71 | | |
| 21.15 | 0.18 | -2.68 | | |
| 14.46 | 0.54 | -1.78 | | |
| 12.41 | 1.19 | -0.91 | | |

| | | | | |
|--------|-------|-------|--|--|
| 9.79 | 1.93 | 0.17 | | |
| 8.39 | 0.09 | -1.44 | | |
| 7.87 | -0.58 | -2.02 | | |
| 7.86 | -0.91 | -2.35 | | |
| 7.45 | 0.32 | -1.05 | | |
| 6.87 | -1.15 | -2.4 | | |
| 6.81 | -0.28 | -1.51 | | |
| 5.91 | -0.27 | -1.3 | | |
| 1.24 | 1.21 | 2.43 | | |
| 1.23 | 0.36 | 1.6 | | |
| 1.19 | 0.11 | 1.39 | | |
| 1.16 | 0.81 | 2.13 | | |
| 1.16 | -2.13 | -0.81 | | |
| 1.14 | -1.02 | 0.32 | | |
| -1.01 | -2.36 | -0.81 | | |
| -1.05 | 2.44 | 4.05 | | |
| -1.08 | -2.37 | -0.72 | | |
| -1.13 | 1.16 | 2.87 | | |
| -1.19 | 1.14 | 2.92 | | |
| -1.26 | 0.18 | 2.05 | | |
| -1.46 | -1.02 | 1.06 | | |
| 6.24 | -3.03 | -5.89 | | |
| 3.54 | -6.98 | -9.03 | | |
| -2.34 | -7.2 | -6.2 | | |
| 7.39 | -2.79 | -5.65 | | |
| 2.04 | -4.8 | -5.8 | | |
| 1.57 | 3.28 | 0.43 | | |
| 1.54 | 2.8 | -0.03 | | |
| 1.53 | 2.33 | -0.48 | | |
| 1.41 | 2.95 | 0.24 | | |
| 1.23 | 2.86 | 0.36 | | |
| 1.17 | 3.91 | 1.47 | | |
| 1.14 | 0.21 | -2.18 | | |
| 1.09 | 1.25 | -1.08 | | |
| 1.07 | 2.86 | 0.55 | | |
| 1.03 | 2.39 | 0.14 | | |
| 1.03 | 7.67 | 5.42 | | |
| -1.04 | 0.96 | -1.19 | | |
| -1.04 | 0.74 | -1.4 | | |
| -1.05 | 0.97 | -1.16 | | |
| -1.08 | -2.01 | -4.11 | | |
| -1.08 | -2.84 | -4.94 | | |
| -1.24 | 2.58 | 0.69 | | |
| -1.25 | -3.52 | -5.41 | | |
| -1.28 | 1.51 | -0.35 | | |
| -1.36 | 3.08 | 1.32 | | |
| -1.4 | -1.25 | -2.98 | | |
| -1.52 | 0.95 | -0.65 | | |
| -1.59 | -0.88 | -2.42 | | |
| -1.68 | 0.37 | -1.09 | | |
| -1.71 | 2.02 | 0.59 | | |
| -1.72 | -0.34 | -1.77 | | |
| -1.94 | -1.32 | -2.57 | | |
| -2.07 | -0.03 | -1.19 | | |
| -2.31 | -0.6 | -1.6 | | |
| -2.31 | 1.25 | 0.25 | | |
| -10.33 | -2.98 | -1.82 | | |
| 1.25 | 1.61 | -1.25 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.16 | 5.36 | 2.62 | | |
| 1.09 | 5.46 | 2.8 | | |
| -1.01 | 2.94 | 0.43 | | |
| -1.06 | -1.77 | -4.21 | | |
| -1.23 | -2.31 | -4.54 | | |
| -1.4 | -1.69 | -3.74 | | |
| -1.49 | 0.3 | -1.65 | | |
| -2.33 | -0.62 | -1.93 | | |
| -12.66 | 1.1 | 2.23 | | |
| 9.02 | 1.7 | -1.13 | | |
| 3.29 | 0.44 | -0.94 | | |
| 3.17 | 0.04 | -1.29 | | |
| 2.98 | 0.64 | -0.61 | | |
| 2.83 | 1.91 | 0.75 | | |
| 2.82 | 1.54 | 0.39 | | |
| -2.13 | -0.97 | 0.46 | | |
| 2.44 | 0.34 | -2.49 | | |
| 1.26 | -0.21 | -2.1 | | |
| 1.12 | -1.94 | -3.65 | | |
| 1.01 | -0.44 | -2 | | |
| -1.01 | -2.48 | -4.02 | | |
| -1.07 | -2.09 | -3.54 | | |
| -1.13 | -1.75 | -3.12 | | |
| -1.2 | -2.72 | -4.01 | | |
| -1.38 | -2.42 | -3.51 | | |
| -1.42 | 1.7 | 0.66 | | |
| -1.46 | -3.28 | -4.29 | | |
| -10.28 | -1.62 | 0.19 | | |
| 5.84 | 2.94 | 0.12 | | |
| 3.56 | 0.35 | -1.77 | | |
| 2.48 | -0.88 | -2.47 | | |
| 2.05 | -1.38 | -2.7 | | |
| 1.99 | -1.48 | -2.76 | | |
| 1.67 | 1.87 | 0.85 | | |
| 1.64 | -0.3 | -1.3 | | |
| -2.45 | 0.17 | 1.18 | | |
| -2.81 | -1.51 | -0.3 | | |
| -3.4 | -0.59 | 0.9 | | |
| 2.37 | 3.85 | 1.04 | | |
| 2.34 | -1.2 | -4 | | |
| 2.14 | 2.98 | 0.31 | | |
| 1.79 | 0.43 | -1.99 | | |
| 1.64 | -1.53 | -3.82 | | |
| 1.51 | 4.09 | 1.93 | | |
| 1.28 | 6.52 | 4.59 | | |
| 1.18 | -1.68 | -3.5 | | |
| 1.15 | 1.08 | -0.7 | | |
| 1.15 | -1.59 | -3.36 | | |
| 1.07 | -2 | -3.67 | | |
| -1.03 | -1.26 | -2.79 | | |
| -1.03 | 0.96 | -0.57 | | |
| -1.06 | 1.44 | -0.05 | | |
| -1.11 | -0.32 | -1.75 | | |
| -1.12 | -0.32 | -1.74 | | |
| -1.13 | -1.09 | -2.49 | | |
| -1.14 | 1.37 | -0.01 | | |
| -1.16 | -2.23 | -3.59 | | |
| -1.19 | 0.71 | -0.62 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.19 | 1.56 | 0.24 | | |
| -1.24 | 1.97 | 0.71 | | |
| -1.26 | 0.87 | -0.37 | | |
| -1.35 | 2.55 | 1.41 | | |
| -1.35 | -0.51 | -1.64 | | |
| -1.37 | 2.12 | 1 | | |
| -1.37 | 1.13 | 0.01 | | |
| -1.39 | -2.55 | -3.65 | | |
| -1.42 | -0.76 | -1.83 | | |
| -1.42 | 0.62 | -0.45 | | |
| -1.44 | -2.2 | -3.25 | | |
| -1.44 | 1.03 | -0.01 | | |
| -6.03 | 0.57 | 1.59 | | |
| -6.53 | 0.57 | 1.71 | | |
| -6.75 | -1.5 | -0.32 | | |
| -6.79 | -0.97 | 0.21 | | |
| -6.82 | 0.11 | 1.31 | | |
| -6.85 | -0.36 | 0.84 | | |
| -6.9 | -0.05 | 1.16 | | |
| -7.08 | -2.15 | -0.9 | | |
| -8.34 | -1.07 | 0.42 | | |
| -8.46 | -0.88 | 0.62 | | |
| -8.67 | -0.89 | 0.65 | | |
| -8.75 | -1.43 | 0.12 | | |
| -9.82 | -0.98 | 0.74 | | |
| -10.87 | -1.02 | 0.85 | | |
| -11.05 | -0.67 | 1.22 | | |
| -12.58 | -2.29 | -0.21 | | |
| 3.77 | 3.77 | 0.95 | | |
| 1.66 | 3.84 | 2.21 | | |
| 1.48 | -0.97 | -2.44 | | |
| 1.24 | 4.75 | 3.53 | | |
| 1.13 | -0.65 | -1.73 | | |
| 1.07 | -1.37 | -2.37 | | |
| -5.23 | -1.01 | 0.47 | | |
| 1.76 | -0.7 | -3.51 | | |
| 1.69 | 3.58 | 0.82 | | |
| 1.63 | -0.67 | -3.38 | | |
| 1.39 | 1.64 | -0.84 | | |
| 1.12 | 1.51 | -0.66 | | |
| -1.05 | -1.05 | -2.98 | | |
| -1.08 | 6.13 | 4.23 | | |
| -1.08 | 1.28 | -0.62 | | |
| -1.32 | 1.59 | -0.02 | | |
| -1.4 | -0.33 | -1.85 | | |
| -1.42 | 0.47 | -1.03 | | |
| -1.44 | 3.81 | 2.33 | | |
| -1.5 | -0.5 | -1.92 | | |
| -1.84 | -2.11 | -3.23 | | |
| -11.97 | -1.99 | -0.41 | | |
| 7.11 | -1.22 | -4.03 | | |
| 5.64 | -1.62 | -4.09 | | |
| 5.03 | 0.09 | -2.23 | | |
| 4.84 | 0.77 | -1.49 | | |
| 4.73 | 2.77 | 0.54 | | |
| 4.55 | 0.64 | -1.53 | | |
| 4.28 | -0.55 | -2.63 | | |
| 4.09 | -0.2 | -2.21 | | |

| | | | | |
|--------|-------|-------|--|--|
| 4.05 | 0.74 | -1.26 | | |
| 3.94 | -2.27 | -4.24 | | |
| 3.83 | 0.51 | -1.42 | | |
| 3.58 | -0.18 | -2 | | |
| 3.46 | 0.25 | -1.52 | | |
| 3.36 | -0.16 | -1.89 | | |
| 3.17 | 0.96 | -0.69 | | |
| 3.06 | -0.38 | -1.98 | | |
| 3.02 | 1 | -0.58 | | |
| 2.89 | 1.56 | 0.04 | | |
| 2.84 | 0.93 | -0.57 | | |
| 2.85 | 0.27 | -1.23 | | |
| 2.71 | 0.36 | -1.07 | | |
| 2.69 | 0.12 | -1.3 | | |
| 2.66 | 0.79 | -0.6 | | |
| 2.65 | 0.34 | -1.05 | | |
| 2.59 | 1.26 | -0.09 | | |
| 2.58 | 0.78 | -0.57 | | |
| 2.57 | 0.77 | -0.57 | | |
| 2.56 | -0.29 | -1.64 | | |
| 2.54 | 1.27 | -0.06 | | |
| 2.53 | -0.39 | -1.71 | | |
| 2.47 | -0.78 | -2.06 | | |
| 2.45 | -0.29 | -1.56 | | |
| 2.44 | 1.47 | 0.2 | | |
| 2.38 | 0.65 | -0.59 | | |
| 2.3 | 0.47 | -0.72 | | |
| 2.29 | -0.52 | -1.7 | | |
| 2.28 | 0.27 | -0.91 | | |
| 2.26 | 0.89 | -0.27 | | |
| 2.21 | -0.85 | -1.98 | | |
| 2.19 | 2.2 | 1.09 | | |
| 2.14 | -0.83 | -1.91 | | |
| 2.07 | 0.51 | -0.52 | | |
| -2.15 | -0.55 | 0.58 | | |
| -1.16 | 1.3 | -1.52 | | |
| -1.52 | 1.08 | -1.35 | | |
| -1.57 | -0.74 | -3.12 | | |
| -1.61 | 1.34 | -1 | | |
| -2.88 | -1.31 | -2.81 | | |
| -2.88 | -2.33 | -3.84 | | |
| -3.4 | -1.59 | -2.86 | | |
| 6.51 | -2.58 | -5.39 | | |
| 2.13 | -3.07 | -4.27 | | |
| -2.65 | -6.24 | -4.94 | | |
| -2.7 | -0.57 | 0.76 | | |
| -4.98 | -2.8 | -0.59 | | |
| 1.31 | 0.7 | -2.11 | | |
| 1.12 | 1.27 | -1.31 | | |
| -1.04 | 0.1 | -2.27 | | |
| -1.55 | 0.73 | -1.06 | | |
| -2.6 | 0.4 | -0.65 | | |
| -10.87 | -2.56 | -1.54 | | |
| -11.07 | -2.81 | -1.76 | | |
| -11.97 | -3.34 | -2.19 | | |
| 2.84 | 0.32 | -2.49 | | |
| 1.29 | 2.77 | 1.1 | | |
| -1.05 | 0.1 | -1.13 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.08 | -0.12 | -1.31 | | |
| 4.68 | 1.14 | -1.67 | | |
| 4.52 | 0.96 | -1.8 | | |
| 2.55 | -3.03 | -4.96 | | |
| 2.25 | 1.81 | 0.06 | | |
| 1.62 | -3.26 | -4.53 | | |
| 1.58 | -2.35 | -3.59 | | |
| 1.43 | -1.97 | -3.06 | | |
| -3.06 | -2.71 | -1.68 | | |
| -4.17 | -5.08 | -3.6 | | |
| 10.3 | 2.06 | -0.75 | | |
| 5.65 | 0.28 | -1.66 | | |
| 5.26 | 4.1 | 2.26 | | |
| 4.97 | 0.48 | -1.27 | | |
| 4.96 | 0.66 | -1.1 | | |
| 4.71 | 0.57 | -1.11 | | |
| 4.19 | 2.77 | 1.27 | | |
| 3.41 | -0.29 | -1.5 | | |
| 3.38 | 0.59 | -0.61 | | |
| 3.04 | 0.4 | -0.65 | | |
| -1.98 | -0.66 | 0.88 | | |
| 5.8 | -0.18 | -2.99 | | |
| 1.98 | -0.62 | -1.88 | | |
| 1.73 | -1.19 | -2.26 | | |
| 1.69 | 2.14 | 1.12 | | |
| 11.07 | 0.81 | -1.99 | | |
| -1.26 | -3.35 | -2.35 | | |
| -1.41 | -2.97 | -1.81 | | |
| 10.97 | 1.16 | -1.65 | | |
| 3.34 | -0.37 | -1.45 | | |
| -1.82 | -1.97 | -0.46 | | |
| 5.12 | 0.37 | -2.43 | | |
| 2.58 | -1.86 | -3.67 | | |
| 1.6 | -1.1 | -2.22 | | |
| 1.58 | -3.97 | -5.07 | | |
| 1.52 | 1.98 | 0.93 | | |
| -2.75 | -0.42 | 0.6 | | |
| -3.59 | -2.36 | -0.96 | | |
| -4.26 | -4.87 | -3.22 | | |
| 4.05 | 5.31 | 2.51 | | |
| 1.6 | 4.92 | 3.45 | | |
| 1.49 | 1.49 | 0.12 | | |
| 1.35 | 1.54 | 0.32 | | |
| 1.32 | 0.89 | -0.3 | | |
| 4.47 | -0.71 | -3.51 | | |
| 1.81 | -0.64 | -2.14 | | |
| 1.64 | 0.28 | -1.07 | | |
| 1.42 | -2.05 | -3.2 | | |
| 1.38 | 3.18 | 2.08 | | |
| 1.85 | -2.74 | -5.54 | | |
| 1.51 | 1.66 | -0.84 | | |
| 1.1 | -1.94 | -3.98 | | |
| 1.04 | 0.7 | -1.26 | | |
| -1.01 | -4.17 | -6.07 | | |
| -1.13 | -2.78 | -4.52 | | |
| -1.2 | 1.02 | -0.63 | | |
| -1.26 | -3.57 | -5.14 | | |
| -1.36 | -0.82 | -2.29 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.57 | -2.43 | -3.69 | | |
| -1.78 | 0.98 | -0.1 | | |
| 1.43 | -0.52 | -3.31 | | |
| 1.36 | -3.34 | -6.06 | | |
| 1.35 | -0.81 | -3.52 | | |
| 1.22 | 0.14 | -2.42 | | |
| 1.15 | -0.98 | -3.46 | | |
| 1.1 | -3.5 | -5.91 | | |
| 1.08 | -0.6 | -2.98 | | |
| 1.02 | -4.13 | -6.44 | | |
| -1.01 | -1.31 | -3.56 | | |
| -1.07 | -0.48 | -2.67 | | |
| -1.07 | -1.24 | -3.41 | | |
| -1.09 | 5.24 | 3.08 | | |
| -1.1 | -1.73 | -3.88 | | |
| -1.1 | -1.69 | -3.83 | | |
| -1.12 | -1.25 | -3.36 | | |
| -1.14 | 1.74 | -0.34 | | |
| -1.72 | -2.41 | -3.9 | | |
| -1.9 | 1.44 | 0.1 | | |
| -1.9 | 1.44 | 0.1 | | |
| -2.06 | 1.37 | 0.14 | | |
| -2.15 | -1.25 | -2.42 | | |
| -11.04 | -2.12 | -0.93 | | |
| -11.05 | -1.5 | -0.31 | | |
| -1.3 | 4.79 | 2 | | |
| -2.71 | 1.01 | -0.72 | | |
| -4.2 | -1.81 | -2.91 | | |
| 4.25 | 4.46 | 1.67 | | |
| 1.63 | -0.45 | -1.86 | | |
| 1.56 | 4.56 | 3.22 | | |
| 1.36 | 3.36 | 2.22 | | |
| -5.19 | -1.65 | 0.03 | | |
| 3.59 | 0.53 | -2.25 | | |
| 1.76 | -4.17 | -5.93 | | |
| 1.43 | -2.67 | -4.14 | | |
| 1.3 | -2.7 | -4.02 | | |
| 1.26 | -4.2 | -5.48 | | |
| 1.21 | -0.96 | -2.17 | | |
| 1.11 | -1.32 | -2.42 | | |
| 1.1 | -3.17 | -4.26 | | |
| 1.09 | 1.91 | 0.85 | | |
| 2.15 | -3.15 | -5.93 | | |
| 2.13 | -3.33 | -6.1 | | |
| 1.98 | -3.84 | -6.51 | | |
| 1.29 | 2.65 | 0.6 | | |
| 1.26 | -1.85 | -3.87 | | |
| 1.03 | -4.95 | -6.68 | | |
| 1.03 | 1.55 | -0.18 | | |
| -1 | -2.91 | -4.6 | | |
| -1.06 | -4.6 | -6.2 | | |
| -1.16 | 0.84 | -0.63 | | |
| -1.17 | -1.37 | -2.83 | | |
| -1.18 | -3.88 | -5.33 | | |
| -1.19 | 0.11 | -1.32 | | |
| -1.2 | -4.05 | -5.48 | | |
| -1.27 | -3.86 | -5.2 | | |
| -1.3 | -4.17 | -5.48 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.34 | -4.44 | -5.71 | | |
| -1.35 | -1.05 | -2.31 | | |
| -1.35 | -0.54 | -1.79 | | |
| 3.83 | -1.38 | -4.16 | | |
| 1.52 | -0.92 | -2.37 | | |
| -3.71 | -1.9 | -0.86 | | |
| 15.12 | 3.47 | 0.69 | | |
| 7.07 | 0.16 | -1.53 | | |
| 6.08 | 3.78 | 2.31 | | |
| 5.1 | 5.11 | 3.9 | | |
| 1.1 | -0.4 | 0.6 | | |
| -1.14 | -1.21 | 0.12 | | |
| -1.21 | 0.39 | 1.8 | | |
| 5.7 | -3.28 | -6.05 | | |
| 2.74 | -4.16 | -5.87 | | |
| 2.57 | -6.15 | -7.77 | | |
| 2.05 | -6.07 | -7.36 | | |
| 1.89 | -4.23 | -5.41 | | |
| -2.68 | -6.26 | -5.1 | | |
| -2.73 | -8.01 | -6.82 | | |
| 10.79 | 0.38 | -2.39 | | |
| 5.16 | -0.65 | -2.36 | | |
| -1.31 | -0.68 | 0.37 | | |
| -1.14 | -0.64 | -3.42 | | |
| -1.68 | -1.68 | -3.9 | | |
| -2.17 | 3.02 | 1.18 | | |
| -3.32 | -1.34 | -2.56 | | |
| -3.41 | -0.56 | -1.75 | | |
| -3.58 | -0.8 | -1.91 | | |
| -19.7 | 1.58 | 2.92 | | |
| -20.56 | -0.52 | 0.88 | | |
| -26.66 | 0.41 | 2.19 | | |
| -38.96 | -0.16 | 2.16 | | |
| -42.74 | -0.85 | 1.61 | | |
| 3.39 | 2.45 | -0.32 | | |
| 1.64 | 0.57 | -1.15 | | |
| 1.54 | 1.6 | -0.03 | | |
| 1.46 | -3.3 | -4.86 | | |
| 1.45 | -3.67 | -5.22 | | |
| 1.43 | -0.72 | -2.25 | | |
| 1.23 | -2.75 | -4.05 | | |
| 1.21 | -1.56 | -2.85 | | |
| 1.14 | -2.77 | -3.98 | | |
| 1.09 | 2.6 | 1.46 | | |
| 1.07 | -0.26 | -1.36 | | |
| 1.05 | 2.62 | 1.54 | | |
| 1.03 | -2.27 | -3.32 | | |
| 1.02 | -0.14 | -1.18 | | |
| -4.37 | -2.94 | -1.83 | | |
| -5.86 | -4.03 | -2.49 | | |
| 8.04 | 3.39 | 0.62 | | |
| 3.15 | 1.61 | 0.19 | | |
| 2.49 | -0.55 | -1.63 | | |
| 2.46 | 0.76 | -0.3 | | |
| -1.75 | 1.67 | 2.72 | | |
| -1.82 | -2.48 | -1.38 | | |
| -2.06 | -3.3 | -2.02 | | |
| -2.32 | 3.2 | 4.65 | | |

| | | | | |
|-------|-------|-------|--|--|
| 7.69 | -3.75 | -6.52 | | |
| 4.23 | -1.51 | -3.41 | | |
| 3.56 | -3.54 | -5.19 | | |
| -2.16 | -4.72 | -3.43 | | |
| -2.23 | -5.34 | -4.01 | | |
| -2.25 | -2.41 | -1.06 | | |
| -2.77 | -4.19 | -2.54 | | |
| 3 | -1.65 | -4.41 | | |
| 2.2 | -0.79 | -3.1 | | |
| 1.68 | 0.82 | -1.1 | | |
| 1.5 | 0.58 | -1.18 | | |
| 1.47 | -0.85 | -2.58 | | |
| 1.44 | 0.02 | -1.68 | | |
| 1.43 | 0.88 | -0.8 | | |
| 1.39 | -0.07 | -1.72 | | |
| 1.38 | 0.37 | -1.27 | | |
| 1.36 | -0.09 | -1.71 | | |
| 1.35 | -1.19 | -2.8 | | |
| 1.34 | -0.35 | -1.95 | | |
| 1.34 | -0.91 | -2.5 | | |
| 1.33 | -0.06 | -1.65 | | |
| 1.3 | -0.25 | -1.81 | | |
| 1.28 | 0.99 | -0.54 | | |
| 1.26 | 0.54 | -0.97 | | |
| 1.24 | 0.77 | -0.72 | | |
| 1.23 | 0.37 | -1.11 | | |
| 1.21 | -1.04 | -2.49 | | |
| 1.22 | 1.77 | 0.31 | | |
| 1.21 | -2.19 | -3.64 | | |
| 1.2 | 0.45 | -0.99 | | |
| 1.18 | -2.1 | -3.51 | | |
| 1.18 | -2.51 | -3.93 | | |
| 1.18 | 0.35 | -1.06 | | |
| 1.18 | 0.21 | -1.2 | | |
| 1.17 | -2.34 | -3.75 | | |
| 1.17 | -2.49 | -3.89 | | |
| 1.17 | 0.16 | -1.24 | | |
| 1.14 | 1.11 | -0.25 | | |
| 1.13 | 0.37 | -0.98 | | |
| 1.12 | -2.04 | -3.38 | | |
| 1.1 | -0.89 | -2.21 | | |
| 1.1 | 0.07 | -1.24 | | |
| 1.1 | -0.07 | -1.38 | | |
| 1.08 | -0.56 | -1.84 | | |
| 1.08 | -0.94 | -2.23 | | |
| 1.08 | 1.44 | 0.16 | | |
| 1.08 | 3.85 | 2.56 | | |
| 1.07 | 2.23 | 0.96 | | |
| 1.07 | -1.92 | -3.18 | | |
| 1.06 | 0.6 | -0.66 | | |
| 1.06 | 2.57 | 1.31 | | |
| 1.06 | 0.51 | -0.75 | | |
| 1.05 | 1 | -0.24 | | |
| 1.03 | 2.54 | 1.32 | | |
| 1.02 | -0.74 | -1.94 | | |
| 1.02 | 0.12 | -1.08 | | |
| 1.01 | -1.42 | -2.62 | | |
| -1.06 | 0.09 | -1 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.08 | -0.75 | -1.82 | | |
| -1.09 | 2.98 | 1.93 | | |
| -1.1 | -1.58 | -2.62 | | |
| -1.1 | 0.28 | -0.77 | | |
| -1.1 | -1.31 | -2.35 | | |
| -1.11 | -0.13 | -1.16 | | |
| -1.11 | 0.99 | -0.03 | | |
| -1.11 | 0.23 | -0.79 | | |
| -1.13 | -4.57 | -5.57 | | |
| -5.46 | -1.79 | -0.51 | | |
| 1.65 | 0.91 | -1.84 | | |
| 1.65 | 1.66 | -1.09 | | |
| 1.59 | -1.9 | -4.6 | | |
| 1.48 | -1.52 | -4.12 | | |
| 1.48 | 2.09 | -0.5 | | |
| 1.48 | 1.27 | -1.32 | | |
| 1.48 | 1.03 | -1.56 | | |
| 1.37 | -1.89 | -4.37 | | |
| 1.36 | -0.5 | -2.97 | | |
| 1.35 | -1.4 | -3.87 | | |
| 1.29 | -1.77 | -4.17 | | |
| 1.25 | 0.61 | -1.74 | | |
| 1.2 | 1.7 | -0.59 | | |
| 1.12 | 0.58 | -1.61 | | |
| 1.1 | 2.37 | 0.2 | | |
| 1.1 | -1.65 | -3.82 | | |
| 1.04 | -1.89 | -3.97 | | |
| 1.03 | 2.07 | 0 | | |
| 1.02 | 0.84 | -1.22 | | |
| 1 | -1.68 | -3.71 | | |
| -1 | 1.13 | -0.89 | | |
| -1.04 | 3.13 | 1.16 | | |
| -1.04 | -2.02 | -3.99 | | |
| -1.06 | 0.06 | -1.88 | | |
| -1.07 | -1.11 | -3.05 | | |
| -1.07 | 0.76 | -1.18 | | |
| -1.1 | -0.78 | -2.67 | | |
| -1.11 | -1.04 | -2.92 | | |
| -1.14 | -2.12 | -3.96 | | |
| -1.15 | 0.14 | -1.69 | | |
| -1.17 | -0.2 | -2 | | |
| -1.19 | -2.3 | -4.08 | | |
| -1.19 | -3.12 | -4.89 | | |
| -1.21 | -0.64 | -2.39 | | |
| -1.22 | 1.28 | -0.46 | | |
| -1.24 | -1.65 | -3.37 | | |
| -1.26 | 4.53 | 2.84 | | |
| -1.29 | -1.25 | -2.92 | | |
| -1.29 | -0.78 | -2.44 | | |
| -1.32 | 1.98 | 0.35 | | |
| -1.36 | -1.24 | -2.83 | | |
| -1.36 | 1.26 | -0.32 | | |
| -1.38 | 4.44 | 2.88 | | |
| -1.38 | -1.73 | -3.29 | | |
| -1.45 | -2.73 | -4.22 | | |
| -1.45 | 1.09 | -0.41 | | |
| -1.52 | -1.87 | -3.29 | | |
| -1.54 | -0.65 | -2.06 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.54 | -0.61 | -2.02 | | |
| -1.55 | 0.92 | -0.47 | | |
| -1.62 | -1.48 | -2.81 | | |
| -1.63 | 1.02 | -0.3 | | |
| -1.64 | -0.71 | -2.03 | | |
| -1.64 | 0.45 | -0.86 | | |
| -1.71 | 0.87 | -0.39 | | |
| -1.73 | -0.43 | -1.67 | | |
| -1.73 | 0.87 | -0.36 | | |
| -1.77 | -0.48 | -1.68 | | |
| -1.79 | 0.13 | -1.06 | | |
| -1.8 | -0.5 | -1.68 | | |
| -1.97 | -1.21 | -2.26 | | |
| -2.02 | -0.2 | -1.21 | | |
| -2.03 | -0.5 | -1.51 | | |
| 7.43 | 0.75 | -2 | | |
| 4.37 | 0.99 | -0.99 | | |
| 4.34 | -0.36 | -2.34 | | |
| 3.43 | -0.72 | -2.36 | | |
| 3.2 | 1.73 | 0.19 | | |
| 2.92 | -1.05 | -2.45 | | |
| 2.76 | -0.59 | -1.91 | | |
| 2.69 | -0.84 | -2.13 | | |
| 2.64 | -0.95 | -2.21 | | |
| 2.57 | 1.65 | 0.43 | | |
| 2.53 | -0.27 | -1.47 | | |
| 2.51 | 0.77 | -0.42 | | |
| 2.48 | -0.93 | -2.1 | | |
| 2.4 | -0.45 | -1.57 | | |
| 2.26 | -0.98 | -2.02 | | |
| 2.23 | 2.13 | 1.12 | | |
| 40.33 | -1.04 | -3.79 | | |
| 30.16 | -1.12 | -3.45 | | |
| 26.19 | 0.01 | -2.12 | | |
| 14.35 | 1.04 | -0.22 | | |
| 12.13 | 0.74 | -0.28 | | |
| 12.1 | -0.01 | -1.03 | | |
| 2.41 | -0.22 | 1.09 | | |
| 2.3 | -0.42 | 0.96 | | |
| 2.26 | -1.06 | 0.35 | | |
| 2.09 | 0.91 | 2.44 | | |
| 2.06 | 2.16 | 3.7 | | |
| 1.97 | -3.31 | -1.71 | | |
| 1.87 | -1.53 | 0.15 | | |
| 1.65 | -4.6 | -2.74 | | |
| 1.57 | 0.43 | 2.36 | | |
| 1.48 | 1.28 | 3.3 | | |
| 1.38 | -5.03 | -2.91 | | |
| 1.33 | -1 | 1.17 | | |
| 1.2 | 0.17 | 2.49 | | |
| 1.19 | -3.09 | -0.76 | | |
| 1.17 | -2.25 | 0.11 | | |
| 1.09 | 1.66 | 4.12 | | |
| 1.06 | -1.45 | 1.05 | | |
| -1.13 | -1.41 | 1.35 | | |
| -1.15 | -5.35 | -2.56 | | |
| -1.15 | -2.69 | 0.1 | | |
| -1.16 | -5.89 | -3.09 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.31 | -2.73 | 0.24 | | |
| -1.66 | -5.76 | -2.44 | | |
| -1.08 | -1.2 | -3.95 | | |
| -1.14 | 1.19 | -1.47 | | |
| -1.14 | 0.49 | -2.18 | | |
| -1.21 | -2.26 | -4.83 | | |
| -2.52 | -5.56 | -7.08 | | |
| -2.63 | -0.46 | -1.92 | | |
| -18.59 | -2.82 | -1.45 | | |
| -20.8 | -3.3 | -1.77 | | |
| -22.98 | -1.75 | -0.09 | | |
| 3.4 | -5.49 | -8.24 | | |
| 1.75 | -3.94 | -5.73 | | |
| 1.47 | -4.27 | -5.81 | | |
| 1.46 | -5.31 | -6.84 | | |
| 1.1 | -0.85 | -1.97 | | |
| 1.1 | -1.88 | -2.99 | | |
| -4.73 | -1.55 | -0.29 | | |
| 3.4 | -5.49 | -8.24 | | |
| 1.75 | -3.94 | -5.73 | | |
| 1.46 | -5.31 | -6.84 | | |
| 1.1 | -0.85 | -1.97 | | |
| 1.1 | -1.88 | -2.99 | | |
| -4.73 | -1.55 | -0.29 | | |
| 2.75 | 3.32 | 0.58 | | |
| -1.13 | 2.13 | 1.03 | | |
| -1.19 | -3.65 | -4.68 | | |
| 9.17 | 0.89 | -1.85 | | |
| 8.33 | 3.44 | 0.84 | | |
| 4.94 | 1.27 | -0.57 | | |
| 4.4 | 0.33 | -1.35 | | |
| 4.02 | 0.02 | -1.53 | | |
| 3.5 | 1.89 | 0.54 | | |
| 3.32 | 1.21 | -0.07 | | |
| 3.06 | 0 | -1.15 | | |
| 3.05 | -0.04 | -1.19 | | |
| 3.04 | 1.52 | 0.37 | | |
| 2.87 | 0.98 | -0.08 | | |
| -1.64 | 1.44 | 2.61 | | |
| -2.13 | -2.22 | -0.67 | | |
| -2.23 | -0.77 | 0.85 | | |
| -1.3 | 3.36 | 0.62 | | |
| -1.8 | 2.19 | -0.07 | | |
| -2.27 | 2.03 | 0.1 | | |
| -2.39 | -1.2 | -3.06 | | |
| -3.75 | -1.79 | -3 | | |
| -20.03 | -0.89 | 0.32 | | |
| -30.98 | -1.82 | 0.02 | | |
| 13.46 | 0.56 | -2.18 | | |
| -1.03 | -2.5 | -1.45 | | |
| -1.08 | -1.02 | 0.1 | | |
| -1.09 | 3.79 | 4.93 | | |
| -1.21 | -2.83 | -1.55 | | |
| 5.34 | 0.47 | -2.27 | | |
| 1.73 | 1.93 | 0.82 | | |
| 1.68 | -1.42 | -2.49 | | |
| 1.65 | -0.45 | -1.49 | | |
| 2.95 | 1.58 | -1.15 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.42 | 0.16 | -1.51 | | |
| 1.26 | 4.47 | 2.97 | | |
| -1.09 | -0.26 | -1.31 | | |
| 1.29 | 0.81 | -1.92 | | |
| 1.26 | 0.28 | -2.43 | | |
| 1.22 | 0.9 | -1.75 | | |
| 1.21 | 2.9 | 0.26 | | |
| 1.12 | -0.93 | -3.47 | | |
| -1.02 | -0.08 | -2.41 | | |
| -1.09 | 0.12 | -2.13 | | |
| -1.16 | 0.24 | -1.92 | | |
| -1.31 | -1.91 | -3.89 | | |
| -1.44 | -2.74 | -4.58 | | |
| -1.59 | -0.52 | -2.22 | | |
| -1.74 | 0.84 | -0.73 | | |
| -2.01 | -0.41 | -1.77 | | |
| -2.32 | 1.59 | 0.44 | | |
| -2.53 | 1.73 | 0.7 | | |
| -10.6 | -1.8 | -0.76 | | |
| -12.51 | -1.8 | -0.53 | | |
| 2.15 | -1.64 | -4.37 | | |
| 1.37 | -2.85 | -4.93 | | |
| 1.32 | -2.06 | -4.08 | | |
| 1.13 | -1.49 | -3.29 | | |
| -1.16 | 1.18 | -0.23 | | |
| -1.19 | 1.22 | -0.15 | | |
| -1.21 | -2.77 | -4.12 | | |
| -1.39 | -2.38 | -3.53 | | |
| -6.87 | -2.32 | -1.16 | | |
| 5.88 | -4.68 | -7.41 | | |
| 5.34 | -4.92 | -7.51 | | |
| 3.45 | -4.81 | -6.77 | | |
| 3.27 | -4.48 | -6.36 | | |
| 2.37 | -2.39 | -3.81 | | |
| 2.24 | -4.26 | -5.6 | | |
| 1.98 | -4.87 | -6.03 | | |
| 1.95 | -5.19 | -6.33 | | |
| 1.93 | -6.98 | -8.11 | | |
| -3.03 | -4.93 | -3.51 | | |
| 1.05 | 2.29 | -0.43 | | |
| -1.48 | 0.17 | -1.93 | | |
| -1.64 | -0.02 | -1.97 | | |
| -2.69 | 0.21 | -1.02 | | |
| -2.81 | 0.04 | -1.13 | | |
| 3.25 | 0.42 | -2.31 | | |
| 1.13 | 0.41 | -0.79 | | |
| 1.06 | 1.01 | -0.1 | | |
| 8.81 | 2.37 | -0.35 | | |
| 4.79 | 1.78 | -0.06 | | |
| 4.39 | 1.54 | -0.18 | | |
| 3.97 | 1.11 | -0.47 | | |
| 3.43 | 3.16 | 1.8 | | |
| 2.7 | 1.43 | 0.41 | | |
| 2.71 | 1.41 | 0.39 | | |
| 2.71 | 0.57 | -0.45 | | |
| 2.69 | 2.02 | 1.01 | | |
| -1.51 | 1.86 | 2.87 | | |
| -1.54 | 0.01 | 1.05 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.64 | -1.29 | -0.16 | | |
| -1.71 | -0.4 | 0.79 | | |
| -2.31 | -1.82 | -0.19 | | |
| 3.03 | -0.52 | -3.24 | | |
| 1.87 | -1.45 | -3.47 | | |
| 1.61 | 0.41 | -1.4 | | |
| 1.47 | -1.39 | -3.07 | | |
| 1.26 | -1.89 | -3.35 | | |
| 1.21 | -1.75 | -3.14 | | |
| 1.11 | -1.06 | -2.34 | | |
| 1.09 | 0.27 | -0.97 | | |
| -1.03 | 1.01 | -0.08 | | |
| -1.03 | -0.68 | -1.75 | | |
| -1.06 | 3.66 | 2.63 | | |
| -6.87 | -2.91 | -1.25 | | |
| 2.76 | -1.16 | -3.87 | | |
| 1.1 | -3.54 | -4.93 | | |
| 1.07 | -0.99 | -2.34 | | |
| 1.04 | 2.55 | 1.24 | | |
| -1.17 | -2.15 | -3.18 | | |
| -1.18 | 3.94 | 2.93 | | |
| -1.18 | -3.72 | -4.74 | | |
| -4.88 | -1.85 | -0.81 | | |
| -7.07 | -2.22 | -0.66 | | |
| 674.53 | -0.29 | -3.01 | | |
| 16.17 | -5.46 | -2.79 | | |
| 14.44 | -5.63 | -2.8 | | |
| 9.97 | -2.99 | 0.37 | | |
| 9.06 | -6.03 | -2.52 | | |
| 6.22 | -3.64 | 0.41 | | |
| 3.64 | -7.63 | -2.81 | | |
| 2.91 | -1.03 | -3.75 | | |
| 1.66 | -1.83 | -3.73 | | |
| 1.61 | -2.93 | -4.78 | | |
| 1.43 | 1.01 | -0.67 | | |
| 1.36 | -3.27 | -4.88 | | |
| 1.12 | -0.93 | -2.27 | | |
| 1.11 | 0.52 | -0.8 | | |
| 1.08 | -4.61 | -5.9 | | |
| 1.07 | -0.93 | -2.19 | | |
| -5.53 | -3.07 | -1.78 | | |
| 1.37 | -2.26 | -4.97 | | |
| -1.13 | -1.96 | -4.04 | | |
| -1.21 | -3.03 | -5 | | |
| -1.32 | -2.2 | -4.06 | | |
| -1.36 | 1.35 | -0.46 | | |
| -1.51 | 0.15 | -1.51 | | |
| -1.68 | -2.63 | -4.13 | | |
| -1.74 | -2.04 | -3.49 | | |
| -1.82 | -2.12 | -3.51 | | |
| -1.95 | -0.13 | -1.42 | | |
| -9.85 | 0.32 | 1.37 | | |
| -14.36 | -1.2 | 0.39 | | |
| 4.02 | 5.3 | 2.59 | | |
| 2.11 | -0.1 | -1.87 | | |
| 1.57 | 7.71 | 6.36 | | |
| -3.62 | -0.15 | 1.01 | | |
| 14.04 | 0.04 | -2.66 | | |

| | | | | |
|-------|-------|-------|--|--|
| 11.12 | 0.87 | -1.5 | | |
| 8.28 | -0.06 | -2.01 | | |
| 7.84 | -0.64 | -2.5 | | |
| 5.84 | -0.07 | -1.51 | | |
| 4.83 | -1.04 | -2.2 | | |
| 4.76 | -0.86 | -2.01 | | |
| 4.35 | 0.68 | -0.34 | | |
| -1.03 | -2.15 | -0.99 | | |
| -1.31 | -0.03 | 1.47 | | |
| -2.11 | -2.23 | -0.05 | | |
| -2.59 | -2.64 | -0.16 | | |
| 52.55 | 2.9 | 0.2 | | |
| 42.93 | 1.2 | -1.21 | | |
| 41.38 | 1.91 | -0.45 | | |
| 38.73 | -0.14 | -2.4 | | |
| 32.81 | 0.68 | -1.34 | | |
| 28.93 | 0.93 | -0.91 | | |
| 28.58 | -0.41 | -2.23 | | |
| 22.2 | 1.33 | -0.13 | | |
| 20.73 | 0.55 | -0.81 | | |
| 19.7 | 0.72 | -0.57 | | |
| 3.64 | 1.61 | 2.76 | | |
| 3.43 | 1.41 | 2.64 | | |
| 3.15 | -0.8 | 0.56 | | |
| 2.27 | -1.36 | 0.48 | | |
| 2.2 | -1.4 | 0.47 | | |
| 2.19 | -0.3 | 1.59 | | |
| 2.07 | -1 | 0.97 | | |
| 2.06 | -1.74 | 0.23 | | |
| 1.6 | 0.01 | 2.35 | | |
| 1.4 | -2.47 | 0.06 | | |
| 1.37 | -0.11 | 2.45 | | |
| 1.26 | -1.39 | 1.29 | | |
| 1.18 | -4.15 | -1.38 | | |
| 1.18 | -1.49 | 1.29 | | |
| 1.13 | 0.98 | 3.82 | | |
| 1 | -1.09 | 1.92 | | |
| 3.4 | -5.9 | -8.6 | | |
| 1.75 | -4.34 | -6.09 | | |
| 1.47 | -4.68 | -6.18 | | |
| 1.46 | -5.72 | -7.2 | | |
| 1.15 | 0.06 | -1.09 | | |
| 1.13 | -1.24 | -2.36 | | |
| 1.12 | -1.91 | -3.01 | | |
| -4.15 | -0.78 | 0.34 | | |
| -4.73 | -1.95 | -0.65 | | |
| 3.8 | 4.47 | 1.77 | | |
| 2.75 | 0.5 | -1.73 | | |
| 1.45 | -0.8 | -2.11 | | |
| 1.42 | 1.44 | 0.17 | | |
| 1.41 | 2.24 | 0.97 | | |
| 1.33 | 1.02 | -0.16 | | |
| 1.2 | -0.92 | -1.96 | | |
| 4.2 | -0.01 | -2.7 | | |
| 2.58 | -1.47 | -3.46 | | |
| 1.71 | -1.46 | -2.86 | | |
| 1.37 | -0.92 | -2 | | |
| -3.9 | -3.67 | -2.33 | | |

| | | | | |
|--------|-------|-------|--|--|
| -5.3 | -2.48 | -0.7 | | |
| 5.05 | -2.22 | -4.91 | | |
| 2.14 | -2.21 | -3.66 | | |
| 2.11 | -1.4 | -2.83 | | |
| -2.56 | -3.55 | -2.55 | | |
| 3.47 | 1.58 | -1.12 | | |
| 1.59 | 1.04 | -0.53 | | |
| 1.21 | 1.22 | 0.04 | | |
| -3.72 | -1.33 | -0.33 | | |
| -3.81 | 0.8 | 1.83 | | |
| -3.92 | 1.18 | 2.25 | | |
| -4.79 | -0.26 | 1.1 | | |
| -4.96 | -0.24 | 1.17 | | |
| -5.04 | -0.21 | 1.23 | | |
| -6.09 | -0.18 | 1.53 | | |
| -14.57 | -1.26 | 1.7 | | |
| 4.79 | 1.03 | -1.66 | | |
| 1.8 | 0.95 | -0.33 | | |
| 1.78 | -2.05 | -3.31 | | |
| -2.7 | 0.17 | 1.17 | | |
| -2.79 | -0.52 | 0.53 | | |
| -2.8 | -0.92 | 0.14 | | |
| -2.87 | -2.33 | -1.24 | | |
| 3.49 | 0.89 | -1.79 | | |
| 1.83 | 4.7 | 2.94 | | |
| 1.61 | -0.02 | -1.59 | | |
| 1.57 | -0.01 | -1.54 | | |
| 1.36 | -0.68 | -2.01 | | |
| 1.23 | 2.68 | 1.5 | | |
| 1.21 | 2.73 | 1.56 | | |
| 1.2 | -1.59 | -2.73 | | |
| 1.11 | 1.77 | 0.74 | | |
| -3.93 | -2 | -0.91 | | |
| 3.31 | 2.2 | -0.48 | | |
| 1.7 | -0.87 | -2.6 | | |
| 8.1 | -1.51 | -4.19 | | |
| -1.63 | -3.7 | -2.66 | | |
| -1.87 | -1.07 | 0.17 | | |
| -1.88 | -4.9 | -3.65 | | |
| -1.91 | 1 | 2.27 | | |
| -2.01 | -0.46 | 0.88 | | |
| 5.78 | -0.6 | -3.28 | | |
| 2.17 | -0.6 | -1.86 | | |
| -2.22 | -1.19 | -0.2 | | |
| -2.48 | -0.7 | 0.46 | | |
| 5.62 | -5.17 | -7.85 | | |
| -3.45 | -7.43 | -5.83 | | |
| 2.09 | -4.28 | -6.96 | | |
| 1.73 | -3.06 | -5.46 | | |
| -1.03 | -2.9 | -4.47 | | |
| -1.04 | -2.71 | -4.27 | | |
| -1.16 | -3.1 | -4.5 | | |
| -1.43 | -2.03 | -3.14 | | |
| -1.53 | -3 | -3.99 | | |
| 2.54 | 3.56 | 0.89 | | |
| 1.32 | 2 | 0.28 | | |
| 1.28 | 3.5 | 1.81 | | |
| 1.02 | -1 | -2.35 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.01 | -0.48 | -1.82 | | |
| -1 | -1.8 | -3.12 | | |
| -1.1 | 4.95 | 3.77 | | |
| -1.21 | -1.8 | -2.85 | | |
| -5.22 | -0.95 | 0.11 | | |
| -5.78 | -1.19 | 0.02 | | |
| -10.5 | -1.68 | 0.39 | | |
| 15.09 | 1.43 | -1.24 | | |
| 10.73 | 0.11 | -2.06 | | |
| 9.8 | 0.31 | -1.74 | | |
| 9.15 | 0.37 | -1.57 | | |
| 7.66 | 0.44 | -1.25 | | |
| 5.73 | -0.16 | -1.44 | | |
| 5.37 | 0.94 | -0.24 | | |
| 1.08 | 0.62 | 1.75 | | |
| 1.06 | 0.49 | 1.65 | | |
| 1.05 | 1.25 | 2.43 | | |
| 1.02 | -1.76 | -0.55 | | |
| -1.01 | 1.68 | 2.95 | | |
| -1.01 | -1.17 | 0.1 | | |
| -1.09 | 0.64 | 2.01 | | |
| -1.15 | 0.43 | 1.88 | | |
| -1.24 | 4.49 | 6.05 | | |
| -1.66 | 0.75 | 2.73 | | |
| 7.75 | 4.09 | 1.42 | | |
| 6.87 | 2.75 | 0.26 | | |
| 5.79 | -0.6 | -2.85 | | |
| 4.11 | 2.26 | 0.5 | | |
| 3.95 | 1.14 | -0.55 | | |
| 3.4 | -0.4 | -1.88 | | |
| 2.86 | -0.32 | -1.55 | | |
| 2.85 | 3.74 | 2.51 | | |
| 2.68 | 0.25 | -0.89 | | |
| 2.55 | 1.98 | 0.92 | | |
| 2.53 | 1.24 | 0.18 | | |
| -2.26 | -0.2 | 1.26 | | |
| 3.01 | -1.76 | -4.42 | | |
| -1.06 | 1.84 | 0.84 | | |
| 4.93 | -3.37 | -6.04 | | |
| 2.82 | -2.02 | -3.88 | | |
| 2.63 | -3.53 | -5.28 | | |
| 2.4 | -1 | -2.62 | | |
| 2.16 | -2.18 | -3.66 | | |
| 1.94 | -4.5 | -5.82 | | |
| 1.63 | -4.07 | -5.14 | | |
| 1.58 | -1.81 | -2.82 | | |
| 1.56 | -1.98 | -2.98 | | |
| -2.66 | -5.74 | -4.69 | | |
| -3.14 | -3.67 | -2.38 | | |
| -4.8 | -5.61 | -3.71 | | |
| 6.65 | 1 | -1.66 | | |
| 2.94 | -0.52 | -2 | | |
| 2.1 | 1.8 | 0.8 | | |
| 2.1 | 1.8 | 0.8 | | |
| -2.14 | -2.22 | -1.05 | | |
| -2.55 | -3.33 | -1.91 | | |
| 4.11 | 1.52 | -1.14 | | |
| 1.75 | 2.11 | 0.68 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.42 | -1.33 | -2.46 | | |
| 1.38 | 2.65 | 1.56 | | |
| -3.25 | 1 | 2.07 | | |
| -3.96 | -1.98 | -0.61 | | |
| -4.38 | -1.87 | -0.36 | | |
| -4.71 | -1.34 | 0.27 | | |
| -1 | 3.75 | 1.09 | | |
| -1.09 | 3.4 | 0.86 | | |
| -1.2 | 0.01 | -2.39 | | |
| -1.67 | 0.35 | -1.57 | | |
| -1.92 | -2.28 | -4 | | |
| -1.98 | 2.67 | 0.99 | | |
| -2.1 | 0.86 | -0.73 | | |
| -2.24 | -5.7 | -7.2 | | |
| -26.54 | -3.23 | -1.16 | | |
| 1.39 | 4.43 | 1.77 | | |
| 1.2 | 0.8 | -1.64 | | |
| 1.08 | -2.46 | -4.76 | | |
| 1.08 | 0.92 | -1.37 | | |
| 1.08 | 0.57 | -1.72 | | |
| 1.07 | -1.54 | -3.82 | | |
| -1.05 | 4.41 | 2.3 | | |
| -1.1 | 0.73 | -1.31 | | |
| -1.18 | -0.51 | -2.45 | | |
| -1.21 | 0.66 | -1.24 | | |
| -1.24 | 0.16 | -1.71 | | |
| -1.24 | 1.02 | -0.85 | | |
| -1.34 | 2.45 | 0.69 | | |
| -1.48 | 2.54 | 0.92 | | |
| -1.5 | -2.53 | -4.13 | | |
| -1.53 | -1.58 | -3.15 | | |
| -1.64 | -0.73 | -2.2 | | |
| -1.71 | -3.11 | -4.51 | | |
| -1.84 | -1.85 | -3.15 | | |
| -1.91 | -2.43 | -3.67 | | |
| -2.21 | -1.18 | -2.22 | | |
| -2.22 | -2.93 | -3.96 | | |
| -2.24 | 1.14 | 0.13 | | |
| -9.66 | -0.28 | 0.81 | | |
| -10.04 | -0.89 | 0.26 | | |
| -10.75 | -0.45 | 0.79 | | |
| -11.06 | -0.67 | 0.61 | | |
| -12.25 | -0.38 | 1.05 | | |
| -12.4 | -0.73 | 0.72 | | |
| -12.96 | -0.03 | 1.49 | | |
| -13.08 | 0.85 | 2.38 | | |
| -13.32 | 1.24 | 2.8 | | |
| -14.48 | -2.8 | -1.12 | | |
| -17.52 | -1.37 | 0.58 | | |
| 16.99 | 2.28 | -0.38 | | |
| 14.17 | 2.57 | 0.17 | | |
| 11.63 | -0.13 | -2.25 | | |
| 10.92 | 3.02 | 0.99 | | |
| 10.44 | 0.13 | -1.82 | | |
| 8.6 | 3.12 | 1.45 | | |
| 6.7 | 2.13 | 0.81 | | |
| 5.53 | 1.2 | 0.16 | | |
| 1.31 | 0.91 | 1.95 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.3 | 0.88 | 1.93 | | |
| 1.29 | 0.07 | 1.13 | | |
| 1.29 | -0.98 | 0.09 | | |
| 1.29 | -1.75 | -0.68 | | |
| 1.28 | 0.31 | 1.38 | | |
| 1.26 | 0.57 | 1.66 | | |
| 1.26 | -0.42 | 0.66 | | |
| 1.21 | -0.62 | 0.52 | | |
| 1.2 | -1.1 | 0.06 | | |
| 1.19 | -0.25 | 0.93 | | |
| 1.17 | -0.63 | 0.58 | | |
| 1.16 | 0.72 | 1.94 | | |
| 1.13 | -2.23 | -0.97 | | |
| 1.11 | 0.83 | 2.1 | | |
| 1.08 | 1.09 | 2.41 | | |
| 1.06 | -1.43 | -0.09 | | |
| 1.06 | 1.27 | 2.61 | | |
| 1.05 | -0.09 | 1.27 | | |
| 1.02 | -2.07 | -0.68 | | |
| -1.01 | -0.35 | 1.09 | | |
| -1.03 | 0.01 | 1.48 | | |
| -1.05 | -2.66 | -1.16 | | |
| -1.05 | -0.05 | 1.45 | | |
| -1.09 | -0.61 | 0.94 | | |
| -1.13 | -0.81 | 0.79 | | |
| -1.24 | 0.26 | 1.99 | | |
| -1.24 | 0.25 | 1.98 | | |
| -1.26 | -2.06 | -0.3 | | |
| -1.27 | 0.56 | 2.32 | | |
| -1.28 | -0.77 | 1.01 | | |
| -1.3 | 1.28 | 3.08 | | |
| -1.31 | -3.21 | -1.4 | | |
| -1.35 | -1.58 | 0.28 | | |
| -1.44 | 0.88 | 2.83 | | |
| -1.44 | -0.3 | 1.65 | | |
| -1.56 | -3.71 | -1.64 | | |
| -1.58 | 1.6 | 3.69 | | |
| -1.72 | -1.86 | 0.35 | | |
| -1.76 | -4 | -1.77 | | |
| -1.88 | -1 | 1.34 | | |
| -1.96 | -3.57 | -1.16 | | |
| 8.18 | 2.72 | 0.06 | | |
| 4 | 3.43 | 1.81 | | |
| 3.46 | 2.4 | 0.98 | | |
| 2.84 | -3.91 | -6.57 | | |
| 2.1 | -4.91 | -7.13 | | |
| 1.49 | -3.51 | -5.24 | | |
| 1.43 | -4.88 | -6.55 | | |
| 1.34 | -6.46 | -8.03 | | |
| 1.27 | -2.73 | -4.24 | | |
| -1.04 | -3.34 | -4.44 | | |
| -5.28 | -5.31 | -4.07 | | |
| -5.62 | -5.35 | -4.02 | | |
| -5.96 | -7.42 | -6 | | |
| -5.95 | -8.35 | -6.93 | | |
| -7.2 | -8.41 | -6.72 | | |
| -7.92 | -7.41 | -5.58 | | |
| -17.49 | -8.84 | -5.87 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.56 | -2.3 | -4.95 | | |
| -2.25 | 1.09 | -1.04 | | |
| -2.87 | -0.59 | -2.37 | | |
| -4.71 | -0.14 | -1.2 | | |
| 6.65 | 0.66 | -1.99 | | |
| 2.94 | -0.85 | -2.32 | | |
| -2.55 | -3.66 | -2.23 | | |
| -2.73 | -1.7 | -0.18 | | |
| 4.11 | -1.61 | -4.27 | | |
| 2.59 | -2.91 | -4.9 | | |
| 2.23 | -2.57 | -4.33 | | |
| 1.71 | -1.88 | -3.26 | | |
| 1.63 | -1.87 | -3.18 | | |
| 1.42 | -2.1 | -3.22 | | |
| 1.32 | 0.48 | -0.54 | | |
| 77.87 | -1.05 | -3.7 | | |
| 27.78 | -0.44 | -1.6 | | |
| 25.51 | 0.49 | -0.55 | | |
| 4.59 | -0.1 | 1.34 | | |
| 4.03 | -1.29 | 0.33 | | |
| 2.97 | -1.36 | 0.7 | | |
| 1.69 | -2.3 | 0.57 | | |
| 1.68 | -5.65 | -2.77 | | |
| 19.95 | 1.3 | -1.35 | | |
| 12.94 | 2.07 | 0.04 | | |
| 11.57 | 0.61 | -1.26 | | |
| 11.05 | 0.19 | -1.6 | | |
| 9.64 | -0.54 | -2.14 | | |
| 9.23 | -0.08 | -1.62 | | |
| 8.72 | 0.64 | -0.82 | | |
| 8.14 | 0 | -1.36 | | |
| 7.99 | -0.46 | -1.79 | | |
| 6.85 | 0.19 | -0.92 | | |
| 1.52 | -1.61 | -0.54 | | |
| 1.49 | -0.53 | 0.57 | | |
| 1.46 | 0.61 | 1.73 | | |
| 1.46 | 0.06 | 1.18 | | |
| 1.44 | -0.3 | 0.84 | | |
| 1.43 | 0.93 | 2.08 | | |
| 1.41 | 1.13 | 2.31 | | |
| 1.4 | 2.57 | 3.75 | | |
| 1.37 | -1.53 | -0.3 | | |
| 1.31 | -0.95 | 0.33 | | |
| 1.31 | -1.52 | -0.23 | | |
| 1.3 | -1.41 | -0.12 | | |
| 1.16 | -1.51 | -0.06 | | |
| 1.05 | -0.44 | 1.16 | | |
| 1.05 | -1.25 | 0.34 | | |
| -1.13 | -2.88 | -1.02 | | |
| -1.18 | -2.75 | -0.84 | | |
| -1.29 | 2.42 | 4.46 | | |
| -1.46 | -3.59 | -1.37 | | |
| -1.56 | -0.62 | 1.69 | | |
| -2.07 | -3.25 | -0.53 | | |
| -2.21 | -5.21 | -2.4 | | |
| 7.3 | -1.73 | -4.37 | | |
| 5.04 | -0.92 | -3.03 | | |
| 4.08 | -1.07 | -2.87 | | |

| | | | | |
|--------|-------|-------|--|--|
| 3.38 | -1.1 | -2.64 | | |
| 3.33 | 0.01 | -1.5 | | |
| 3.12 | -0.21 | -1.62 | | |
| 2.81 | -3.75 | -5.01 | | |
| 2.72 | -2.45 | -3.67 | | |
| 2.67 | 4.58 | 3.39 | | |
| 2.36 | 0.55 | -0.47 | | |
| -1.84 | -0.59 | 0.51 | | |
| 4.79 | -3.19 | -5.83 | | |
| 2.59 | -2.58 | -4.33 | | |
| 2 | -1.72 | -3.1 | | |
| -3.12 | -2.94 | -1.68 | | |
| 10.49 | 1.84 | -0.8 | | |
| 4.06 | -0.07 | -1.34 | | |
| 2.1 | -1.22 | -3.86 | | |
| 1.19 | 0.06 | -1.76 | | |
| 1.08 | -4.48 | -6.15 | | |
| 1.01 | -4.19 | -5.77 | | |
| -1.01 | -1.7 | -3.25 | | |
| -1.04 | -2.45 | -3.96 | | |
| -1.11 | 5.62 | 4.21 | | |
| -1.13 | -3.39 | -4.78 | | |
| -1.39 | 0.36 | -0.73 | | |
| -1.4 | 3.83 | 2.75 | | |
| -6.01 | -2.36 | -1.34 | | |
| -7.05 | -3.76 | -2.51 | | |
| -7.36 | -2.32 | -1.01 | | |
| -8.26 | -4.22 | -2.74 | | |
| -10.52 | -4.09 | -2.25 | | |
| 1.24 | 4.54 | 1.91 | | |
| 1.06 | 5.85 | 3.43 | | |
| 1.05 | 0.2 | -2.2 | | |
| 1.03 | -0.83 | -3.2 | | |
| 1.03 | -3.34 | -5.71 | | |
| -1.23 | 2.65 | 0.63 | | |
| -1.25 | -0.63 | -2.62 | | |
| -1.4 | 2.43 | 0.59 | | |
| -1.92 | 0.11 | -1.28 | | |
| -2.05 | 1.24 | -0.05 | | |
| -10.15 | -3.11 | -2.09 | | |
| -11.57 | 0.09 | 1.3 | | |
| -15.69 | -2.89 | -1.24 | | |
| -20.12 | -2.92 | -0.91 | | |
| 13.12 | 0.6 | -2.04 | | |
| 5.14 | 0.39 | -0.89 | | |
| 4.65 | 1.13 | -0.01 | | |
| 4.62 | 0.1 | -1.03 | | |
| 4.33 | 0.74 | -0.3 | | |
| 1 | -0.29 | 0.79 | | |
| -1.01 | 0.17 | 1.26 | | |
| -1.07 | -0.81 | 0.37 | | |
| -1.15 | -2.08 | -0.8 | | |
| -1.56 | 2.04 | 3.76 | | |
| 6.56 | 1.71 | -0.92 | | |
| 2.61 | 0.72 | -0.59 | | |
| 2.37 | -1.89 | -3.05 | | |
| 2.3 | -0.05 | -1.18 | | |
| 2.2 | 2.54 | 1.49 | | |

| | | | | |
|--------|-------|-------|--|--|
| 3.71 | -1.21 | -3.84 | | |
| 1.91 | 1.57 | -0.1 | | |
| 1.72 | -1.98 | -3.5 | | |
| 1.46 | -1.65 | -2.94 | | |
| 1.27 | -2.79 | -3.88 | | |
| 1.21 | -0.67 | -1.69 | | |
| 1.21 | -0.67 | -1.69 | | |
| -3.73 | -0.15 | 1.01 | | |
| -5.64 | -1.97 | -0.21 | | |
| 7.43 | 1.61 | -1.02 | | |
| 6.32 | -0.42 | -2.82 | | |
| 5.33 | -0.09 | -2.24 | | |
| 5.25 | 1.75 | -0.38 | | |
| 5.14 | 2.2 | 0.11 | | |
| 4.71 | 1.48 | -0.49 | | |
| 4.51 | -0.27 | -2.18 | | |
| 4.39 | 0.4 | -1.47 | | |
| 3.67 | -1.04 | -2.65 | | |
| 3.35 | 0.83 | -0.65 | | |
| 3.22 | 0.23 | -1.2 | | |
| 3.17 | 0.91 | -0.49 | | |
| 3.18 | 0.11 | -1.29 | | |
| 2.91 | 0.76 | -0.52 | | |
| 2.87 | 0.95 | -0.31 | | |
| 2.71 | 0.97 | -0.21 | | |
| 5.83 | -0.64 | -3.27 | | |
| 2.17 | 4.95 | 3.75 | | |
| 1.9 | 1.46 | 0.44 | | |
| -2.14 | -0.42 | 0.6 | | |
| -2.16 | -0.41 | 0.62 | | |
| -2.21 | 0.03 | 1.08 | | |
| -2.29 | -1.63 | -0.53 | | |
| -2.31 | 0.22 | 1.34 | | |
| -2.31 | -2.2 | -1.08 | | |
| -2.41 | 0.68 | 1.86 | | |
| -2.5 | 0.65 | 1.88 | | |
| -3.36 | -2.14 | -0.48 | | |
| -3.7 | -1.76 | 0.04 | | |
| -3.79 | 0.28 | 2.11 | | |
| -3.93 | -1.37 | 0.52 | | |
| -4.01 | -1.75 | 0.17 | | |
| -4.65 | -2.95 | -0.82 | | |
| -5.23 | -2.89 | -0.59 | | |
| -6.18 | -1.9 | 0.64 | | |
| -7.1 | -1.26 | 1.49 | | |
| -7.21 | -1.43 | 1.33 | | |
| -10.4 | -3.59 | -0.3 | | |
| -15.96 | -2.12 | 1.79 | | |
| 4.06 | 1.26 | -1.37 | | |
| 1.65 | 1.54 | 0.22 | | |
| 1.52 | 0.48 | -0.73 | | |
| -3.51 | -3.34 | -2.14 | | |
| -3.58 | -1.98 | -0.74 | | |
| 5 | -2.38 | -5 | | |
| 3.64 | 3.35 | 1.18 | | |
| 2.2 | -0.87 | -2.31 | | |
| 2.05 | -5.64 | -6.98 | | |
| -2.62 | -4.76 | -3.68 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.58 | -5.05 | -3.16 | | |
| 2 | -3.88 | -6.51 | | |
| 1.26 | -2.79 | -4.74 | | |
| -1.21 | -4.83 | -6.17 | | |
| -1.26 | -0.47 | -1.76 | | |
| -1.3 | -3.87 | -5.11 | | |
| -6.34 | -2.62 | -1.58 | | |
| 3.77 | -0.99 | -3.62 | | |
| 2.88 | -2.75 | -4.99 | | |
| 1.53 | 0.14 | -1.18 | | |
| 1.29 | 1.82 | 0.74 | | |
| 1.28 | -1.94 | -3 | | |
| 1.25 | -1.37 | -2.4 | | |
| 1.24 | -1.13 | -2.15 | | |
| -6.51 | -3.07 | -1.08 | | |
| 2.42 | 2.15 | -0.47 | | |
| 1.46 | 1.35 | -0.54 | | |
| 1.33 | -1.22 | -2.98 | | |
| 1.22 | -1.43 | -3.07 | | |
| 1.21 | 1.28 | -0.34 | | |
| 1.04 | 2 | 0.59 | | |
| 1.03 | -0.78 | -2.17 | | |
| 1.03 | -0.08 | -1.47 | | |
| -1.06 | 2.49 | 1.23 | | |
| -1.22 | 2.45 | 1.39 | | |
| -5.24 | -1.44 | -0.4 | | |
| -6.58 | 0.31 | 1.68 | | |
| 3.35 | 0.45 | -2.17 | | |
| 2.45 | -2.28 | -4.45 | | |
| 1.58 | -3.64 | -5.18 | | |
| 1.58 | -1.24 | -2.78 | | |
| 1.24 | 0.83 | -0.36 | | |
| 1.17 | -1.97 | -3.07 | | |
| 1.16 | 3.35 | 2.26 | | |
| 1.15 | -0.53 | -1.61 | | |
| 1.11 | 1.57 | 0.54 | | |
| 1.11 | -0.29 | -1.32 | | |
| -5.52 | -3.57 | -1.98 | | |
| 27.54 | 0.83 | -1.79 | | |
| 22.4 | 0.06 | -2.26 | | |
| 16.91 | 1.2 | -0.72 | | |
| 16.78 | 0.31 | -1.6 | | |
| 15.63 | 2.69 | 0.89 | | |
| 12.87 | 2.54 | 1.02 | | |
| 12.62 | 0.95 | -0.55 | | |
| 11.63 | 2.07 | 0.69 | | |
| 10.31 | 1.86 | 0.66 | | |
| 10.27 | 1 | -0.2 | | |
| 9.95 | -1.82 | -2.98 | | |
| 9.73 | -2.76 | -3.88 | | |
| 2.12 | -1.17 | -0.09 | | |
| 2.1 | -0.75 | 0.35 | | |
| 2 | -1.83 | -0.67 | | |
| 1.87 | -2.19 | -0.93 | | |
| 1.85 | 0.42 | 1.69 | | |
| 1.6 | -1.57 | -0.08 | | |
| 1.46 | 0.03 | 1.65 | | |
| 1.45 | -1.69 | -0.06 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.34 | -4.03 | -2.28 | | |
| 1.01 | 1.6 | 3.76 | | |
| 1 | -4.59 | -2.44 | | |
| -1.02 | -0.33 | 1.86 | | |
| -1.38 | -2.97 | -0.34 | | |
| 1.78 | -2.15 | -4.77 | | |
| 1.49 | -0.16 | -2.53 | | |
| 1.15 | -2.53 | -4.52 | | |
| 1.05 | -0.81 | -2.67 | | |
| -1.01 | -3.42 | -5.19 | | |
| -1.06 | -6.66 | -8.36 | | |
| -1.15 | -2.6 | -4.19 | | |
| -1.15 | 2.12 | 0.53 | | |
| -1.51 | -0.81 | -2.01 | | |
| -8.43 | -4.89 | -3.6 | | |
| 4.62 | 3.78 | 1.17 | | |
| 1.88 | 1.1 | -0.22 | | |
| 1.77 | 4.47 | 3.23 | | |
| -3.21 | -1.29 | -0.02 | | |
| 5.59 | -4.2 | -6.81 | | |
| 2.29 | -5.53 | -6.85 | | |
| 2.18 | -5.13 | -6.38 | | |
| 1.89 | -3.78 | -4.83 | | |
| -4.78 | -7.22 | -5.09 | | |
| -5.35 | -6.38 | -4.08 | | |
| 1.6 | -1.44 | -4.05 | | |
| 1.49 | 1.54 | -0.97 | | |
| 1.26 | -3.1 | -5.36 | | |
| 1.11 | -3.28 | -5.36 | | |
| 1.09 | 0.23 | -1.82 | | |
| -1.06 | -1.99 | -3.84 | | |
| -1.17 | -0.54 | -2.24 | | |
| -1.18 | 0.5 | -1.2 | | |
| -1.31 | -2.3 | -3.84 | | |
| -1.37 | 1.9 | 0.43 | | |
| -1.43 | 0.09 | -1.33 | | |
| -1.48 | 0.28 | -1.09 | | |
| -1.57 | -3.56 | -4.83 | | |
| -1.6 | 1.72 | 0.47 | | |
| -1.69 | -0.21 | -1.38 | | |
| -1.75 | -0.31 | -1.43 | | |
| -1.75 | 0.44 | -0.68 | | |
| -10.3 | -4.33 | -2.89 | | |
| -1.03 | 0.31 | -2.3 | | |
| -1.18 | 3.24 | 0.82 | | |
| -1.33 | -5.32 | -7.57 | | |
| -1.6 | -3.78 | -5.76 | | |
| -1.67 | -5.18 | -7.09 | | |
| -1.83 | -5.68 | -7.46 | | |
| -2.14 | -4.54 | -6.1 | | |
| -2.46 | -0.33 | -1.69 | | |
| -2.77 | -1.39 | -2.58 | | |
| -19.98 | -4.4 | -2.74 | | |
| 4.45 | -2.19 | -4.8 | | |
| 1.54 | -0.91 | -1.99 | | |
| 2.26 | 0.74 | -1.87 | | |
| 2.26 | 1.61 | -0.99 | | |
| 1.42 | 1.76 | -0.18 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.19 | 1.26 | -0.42 | | |
| 1.18 | 3.08 | 1.41 | | |
| 1.11 | 0.73 | -0.85 | | |
| 1.09 | -0.73 | -2.28 | | |
| 1.05 | -1.75 | -3.25 | | |
| -1.04 | 4.41 | 3.04 | | |
| -1.04 | -0.78 | -2.15 | | |
| -1.1 | 0.35 | -0.95 | | |
| -1.19 | -2.41 | -3.59 | | |
| -1.27 | -1.14 | -2.23 | | |
| -5.95 | -0.3 | 0.84 | | |
| 6.02 | 5.12 | 2.52 | | |
| 1.99 | -0.19 | -1.19 | | |
| 1.98 | -0.95 | -1.95 | | |
| -2.11 | -1.71 | -0.64 | | |
| -2.3 | -0.78 | 0.41 | | |
| 1.97 | -1.05 | -3.66 | | |
| 1.68 | -2.11 | -4.48 | | |
| 1.38 | 2.07 | -0.02 | | |
| 1.34 | 2.38 | 0.33 | | |
| 1.22 | 4.62 | 2.71 | | |
| 1.14 | -0.9 | -2.72 | | |
| 1.09 | 0.8 | -0.95 | | |
| 1.07 | -0.19 | -1.91 | | |
| 1.06 | 2.1 | 0.39 | | |
| 1.05 | -0.53 | -2.22 | | |
| 1.04 | 1.17 | -0.5 | | |
| 1.02 | 1.09 | -0.57 | | |
| 1.01 | 1.72 | 0.08 | | |
| -1.05 | -2.65 | -4.2 | | |
| -1.14 | 0.2 | -1.24 | | |
| -1.2 | -0.93 | -2.3 | | |
| -1.19 | -2.78 | -4.15 | | |
| -1.2 | 0.5 | -0.86 | | |
| -1.22 | -1.37 | -2.71 | | |
| -1.24 | 1.18 | -0.14 | | |
| -1.27 | -1.74 | -3.02 | | |
| -1.33 | 3.36 | 2.14 | | |
| -1.36 | 0.32 | -0.86 | | |
| -1.53 | -0.49 | -1.5 | | |
| -1.54 | -1.71 | -2.71 | | |
| -7.49 | -1.72 | -0.44 | | |
| -8.19 | -2.07 | -0.66 | | |
| -13.82 | -2.45 | -0.29 | | |
| 1.74 | -3.85 | -6.45 | | |
| 1.43 | -5.29 | -7.61 | | |
| 1.16 | -0.93 | -2.95 | | |
| 1.13 | -3.8 | -5.78 | | |
| 1.11 | -1.14 | -3.09 | | |
| 1.08 | -3.52 | -5.43 | | |
| 1.04 | -3.23 | -5.09 | | |
| 1.02 | -2.22 | -4.04 | | |
| -1.02 | 4.12 | 2.34 | | |
| -1.09 | -5.14 | -6.83 | | |
| -1.1 | -1.27 | -2.93 | | |
| -1.23 | 1.85 | 0.35 | | |
| -1.26 | -2.58 | -4.04 | | |
| -1.33 | 0.76 | -0.64 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.35 | -6.08 | -7.45 | | |
| -1.48 | -4.96 | -6.19 | | |
| -1.5 | -1.23 | -2.44 | | |
| -1.51 | -2.02 | -3.23 | | |
| -1.67 | -5.67 | -6.73 | | |
| -1.69 | -1.61 | -2.66 | | |
| 4.64 | -0.73 | -3.32 | | |
| 1.58 | -1.75 | -2.79 | | |
| -2.73 | -4.88 | -3.82 | | |
| -2.96 | -2.93 | -1.74 | | |
| 2.23 | -2.01 | -4.61 | | |
| 1.06 | 7.33 | 5.81 | | |
| 1.02 | 0.3 | -1.17 | | |
| -1.01 | 0.25 | -1.17 | | |
| -1.03 | 1.4 | 0.01 | | |
| -1.16 | -3.21 | -4.43 | | |
| -1.18 | 1.52 | 0.32 | | |
| -1.23 | 1.48 | 0.34 | | |
| -1.26 | -0.86 | -1.96 | | |
| -5.46 | -2.36 | -1.35 | | |
| -5.62 | -1.86 | -0.81 | | |
| -6.29 | -3.09 | -1.87 | | |
| -7.91 | -2.51 | -0.96 | | |
| -8.27 | -1.29 | 0.33 | | |
| -8.42 | -1.89 | -0.25 | | |
| -8.41 | -2.62 | -0.98 | | |
| -8.53 | -2.68 | -1.02 | | |
| -10.48 | -2.17 | -0.22 | | |
| -10.88 | 0.26 | 2.27 | | |
| -13.47 | -3 | -0.68 | | |
| -19.53 | -0.57 | 2.28 | | |
| -23.04 | -2.56 | 0.53 | | |
| -29.8 | -2.1 | 1.37 | | |
| 4.32 | 0.41 | -2.18 | | |
| 2.89 | -0.09 | -2.11 | | |
| 1.96 | 0.41 | -1.04 | | |
| 1.74 | -1.48 | -2.76 | | |
| 1.68 | -0.88 | -2.11 | | |
| 1.62 | -2.36 | -3.54 | | |
| 1.46 | -0.56 | -1.58 | | |
| -3.08 | -2.77 | -1.63 | | |
| -3.1 | -2.49 | -1.34 | | |
| 2.86 | 0.48 | -2.11 | | |
| 2.21 | 1.64 | -0.58 | | |
| 2.06 | 0.59 | -1.53 | | |
| 1.87 | 0.93 | -1.05 | | |
| 1.5 | 4.82 | 3.16 | | |
| 1.47 | 2.12 | 0.49 | | |
| 1.43 | 1.37 | -0.22 | | |
| 1.3 | -0.6 | -2.05 | | |
| 1.24 | 6.15 | 4.76 | | |
| 1.23 | 4.47 | 3.09 | | |
| 1.2 | 1.42 | 0.08 | | |
| 1.16 | -1.65 | -2.93 | | |
| 1.15 | 0.61 | -0.67 | | |
| 1.14 | 4.06 | 2.8 | | |
| 1.11 | 1.34 | 0.11 | | |
| 1.1 | 4.76 | 3.54 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.09 | 4.91 | 3.71 | | |
| 1.08 | 1.06 | -0.12 | | |
| 1.08 | 4.78 | 3.6 | | |
| 1.05 | 1.33 | 0.18 | | |
| 1.05 | 2.74 | 1.6 | | |
| 1.02 | 5.17 | 4.07 | | |
| -1.01 | 0.35 | -0.71 | | |
| -1.03 | 0.99 | -0.05 | | |
| -1.03 | -2.06 | -3.1 | | |
| -1.04 | -1.23 | -2.26 | | |
| -1.04 | 2.71 | 1.69 | | |
| -4.92 | -2.04 | -0.82 | | |
| -8.18 | -1.16 | 0.79 | | |
| -9.87 | -1.91 | 0.32 | | |
| 5.38 | 0.74 | -1.85 | | |
| 2.19 | 0.38 | -0.92 | | |
| 2.18 | -1.32 | -2.6 | | |
| 2.18 | 2.4 | 1.12 | | |
| 2.01 | 1.84 | 0.66 | | |
| -2.73 | -1.15 | 0.13 | | |
| -2.75 | -1.36 | -0.07 | | |
| 1.92 | 0.84 | -1.75 | | |
| 1.61 | 2.5 | 0.17 | | |
| 1.43 | -0.95 | -3.12 | | |
| 1.42 | 1.16 | -1 | | |
| 1.32 | -0.8 | -2.84 | | |
| 1.19 | 0.33 | -1.56 | | |
| 1.17 | -1.28 | -3.15 | | |
| 1.16 | 0.75 | -1.11 | | |
| 1.14 | 1.85 | 0.02 | | |
| 1.11 | 3.28 | 1.48 | | |
| 1.11 | 1.16 | -0.63 | | |
| 1.09 | -1.84 | -3.61 | | |
| 1.08 | 1.17 | -0.59 | | |
| 1.07 | 1.38 | -0.37 | | |
| 1.04 | -1.81 | -3.51 | | |
| 1.03 | 5.85 | 4.16 | | |
| -1.05 | -1.41 | -2.97 | | |
| -1.08 | -0.86 | -2.39 | | |
| -1.09 | 0.82 | -0.7 | | |
| -1.09 | -0.32 | -1.84 | | |
| -1.1 | 0.25 | -1.25 | | |
| -1.12 | -2.02 | -3.5 | | |
| -1.14 | 0.65 | -0.8 | | |
| -1.16 | 1.57 | 0.15 | | |
| -1.18 | -1.14 | -2.55 | | |
| -1.22 | -2.42 | -3.77 | | |
| -1.24 | -1.6 | -2.93 | | |
| -1.26 | -2.67 | -3.97 | | |
| -1.28 | -0.08 | -1.37 | | |
| -1.28 | -0.59 | -1.87 | | |
| -1.29 | -0.14 | -1.42 | | |
| -1.29 | 0.07 | -1.21 | | |
| -1.3 | -1.85 | -3.11 | | |
| -1.33 | -1.4 | -2.63 | | |
| -1.36 | -2.43 | -3.63 | | |
| -1.4 | -1.38 | -2.55 | | |
| -1.45 | -3.86 | -4.96 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.49 | -0.15 | -1.22 | | |
| -1.54 | 0.05 | -0.98 | | |
| -1.55 | -0.7 | -1.71 | | |
| -7.23 | -3.45 | -2.24 | | |
| 1.94 | 1.5 | -1.08 | | |
| 1.54 | 0.72 | -1.53 | | |
| 1.3 | 2.83 | 0.82 | | |
| 1.14 | 8.38 | 6.56 | | |
| 1.13 | -1.58 | -3.38 | | |
| -1 | 3.9 | 2.27 | | |
| -1.02 | 4.25 | 2.66 | | |
| -1.12 | 0.86 | -0.61 | | |
| -1.16 | 2.03 | 0.62 | | |
| -1.19 | 3.43 | 2.05 | | |
| -1.23 | 3.02 | 1.69 | | |
| -1.32 | -1.58 | -2.81 | | |
| -1.43 | 1.25 | 0.14 | | |
| -1.43 | 1.13 | 0.02 | | |
| -6.2 | -1.04 | -0.04 | | |
| -6.69 | 0.45 | 1.56 | | |
| 3.9 | -4.4 | -6.99 | | |
| -3.31 | -4.51 | -3.41 | | |
| -3.37 | -5.66 | -4.53 | | |
| 5.8 | -2.58 | -5.16 | | |
| 3.19 | -5.76 | -7.49 | | |
| 2.9 | -5.35 | -6.94 | | |
| 2.63 | -5.22 | -6.67 | | |
| 1.99 | -7.03 | -8.07 | | |
| 1.97 | -4.51 | -5.54 | | |
| 2.1 | -0.11 | -2.7 | | |
| 1.26 | -0.57 | -2.42 | | |
| 1.17 | -0.65 | -2.4 | | |
| 1.16 | 2.78 | 1.05 | | |
| 1.13 | -0.85 | -2.54 | | |
| 1.04 | -0.14 | -1.72 | | |
| 1.03 | 4.34 | 2.79 | | |
| -1.06 | 2.98 | 1.54 | | |
| -1.08 | 2.92 | 1.51 | | |
| -1.08 | -1.58 | -2.99 | | |
| -1.21 | -1.47 | -2.71 | | |
| -1.22 | -2.21 | -3.44 | | |
| -1.26 | 2.51 | 1.32 | | |
| -1.27 | 0.05 | -1.12 | | |
| -1.27 | 5.7 | 4.53 | | |
| -5.89 | -0.49 | 0.55 | | |
| -13.4 | -1.63 | 0.6 | | |
| 5.67 | -1.06 | -3.65 | | |
| -2.42 | -3.32 | -2.13 | | |
| -2.51 | -3.56 | -2.31 | | |
| -2.85 | -0.69 | 0.74 | | |
| 1.42 | -2.71 | -5.29 | | |
| 1.34 | -0.95 | -3.44 | | |
| 1.27 | -4.58 | -7 | | |
| 1.26 | -2.06 | -4.48 | | |
| 1.06 | -3.05 | -5.21 | | |
| -1.04 | -1.36 | -3.39 | | |
| -1.2 | -1.32 | -3.14 | | |
| -1.27 | -3.41 | -5.15 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.42 | -4.39 | -5.96 | | |
| -1.52 | -1.99 | -3.46 | | |
| 2.59 | 1.93 | -0.65 | | |
| 2.26 | 2.32 | -0.06 | | |
| 1.51 | -3.01 | -4.81 | | |
| 1.24 | -2.41 | -3.93 | | |
| 1.18 | -2.11 | -3.56 | | |
| 1.17 | -3.11 | -4.55 | | |
| 1.07 | -1.96 | -3.27 | | |
| 1.02 | -1.45 | -2.69 | | |
| -1 | -3.39 | -4.6 | | |
| -1 | -3.84 | -5.04 | | |
| -1.02 | -2.88 | -4.07 | | |
| -1.02 | -0.33 | -1.51 | | |
| -1.04 | -2.1 | -3.25 | | |
| -1.11 | -3.29 | -4.35 | | |
| -1.15 | -1.6 | -2.61 | | |
| -1.15 | -1.82 | -2.83 | | |
| -8.27 | -1.53 | 0.31 | | |
| 5.02 | -0.34 | -2.93 | | |
| 2.08 | -2.38 | -3.69 | | |
| 1.9 | -0.6 | -1.78 | | |
| -2.67 | -2.23 | -1.07 | | |
| 2.21 | 6.1 | 3.52 | | |
| 2.04 | 2.32 | -0.14 | | |
| 1.21 | 3.68 | 1.97 | | |
| 1.18 | 0.37 | -1.3 | | |
| 1.16 | 2.14 | 0.49 | | |
| 1.13 | 1.32 | -0.29 | | |
| 1.12 | 1.51 | -0.09 | | |
| 1.04 | 2.65 | 1.16 | | |
| 1.01 | 2 | 0.55 | | |
| 1.01 | 2.46 | 1.02 | | |
| -1.02 | 0.89 | -0.52 | | |
| -1.07 | 6.58 | 5.25 | | |
| -1.17 | 0.88 | -0.33 | | |
| -1.22 | -1.39 | -2.54 | | |
| -1.23 | 1.14 | 0 | | |
| -1.26 | 1.63 | 0.53 | | |
| -1.33 | 0.59 | -0.44 | | |
| -5.75 | -0.58 | 0.51 | | |
| -6.47 | -1.23 | 0.03 | | |
| -8.54 | -1.6 | 0.05 | | |
| -10.72 | -1.92 | 0.06 | | |
| -15.02 | -2.21 | 0.27 | | |
| -21.74 | -2.29 | 0.72 | | |
| 8.35 | 0.99 | -1.59 | | |
| -1.46 | -3.85 | -2.82 | | |
| 2.25 | 1.56 | -1.01 | | |
| -1.01 | 5.13 | 3.74 | | |
| 19.29 | -0.28 | -2.85 | | |
| 13.82 | -1.51 | -3.59 | | |
| 9.58 | -0.04 | -1.6 | | |
| 8.99 | -0.87 | -2.34 | | |
| 1.32 | -0.19 | 1.1 | | |
| 1.29 | 0.34 | 1.68 | | |
| 1.28 | 0.46 | 1.81 | | |
| 1.22 | -1.7 | -0.28 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.18 | -1.57 | -0.1 | | |
| 1.03 | -2.29 | -0.63 | | |
| -1.15 | -2.43 | -0.52 | | |
| -1.18 | -3.13 | -1.19 | | |
| -1.2 | 0.68 | 2.64 | | |
| -1.22 | -2.84 | -0.85 | | |
| -1.4 | -3.21 | -1.02 | | |
| 2.34 | 2.55 | -0.02 | | |
| 2.07 | 0.06 | -2.33 | | |
| 1.68 | -1.02 | -3.11 | | |
| 1.66 | -1.59 | -3.67 | | |
| 1.48 | 1.16 | -0.75 | | |
| 1.42 | -1.74 | -3.59 | | |
| 1.39 | -0.69 | -2.51 | | |
| 1.34 | -2.43 | -4.2 | | |
| 1.32 | -2.13 | -3.88 | | |
| 1.27 | -2.08 | -3.78 | | |
| 1.27 | -2.06 | -3.74 | | |
| 1.23 | -1.46 | -3.11 | | |
| 1.21 | -0.58 | -2.2 | | |
| 1.2 | -2.39 | -4 | | |
| 1.17 | -2.78 | -4.35 | | |
| 1.17 | -1.81 | -3.37 | | |
| 1.15 | -1.69 | -3.24 | | |
| 1.14 | -1.1 | -2.63 | | |
| 1.11 | -1.7 | -3.2 | | |
| 1.1 | -0.65 | -2.13 | | |
| 1.08 | 1.54 | 0.09 | | |
| 1.08 | -1.01 | -2.46 | | |
| 1.04 | -1.8 | -3.2 | | |
| 1.01 | 2.02 | 0.65 | | |
| -1.03 | -1.6 | -2.91 | | |
| -1.05 | 1.12 | -0.15 | | |
| -1.06 | 0.92 | -0.33 | | |
| -1.07 | -2.35 | -3.59 | | |
| -1.09 | -2.16 | -3.37 | | |
| -1.12 | -2.52 | -3.7 | | |
| -1.15 | -0.4 | -1.55 | | |
| -1.15 | -1.94 | -3.08 | | |
| -1.16 | -2.12 | -3.24 | | |
| -1.17 | -0.47 | -1.58 | | |
| -1.19 | -2.78 | -3.87 | | |
| -1.25 | -2.2 | -3.22 | | |
| -1.27 | 1.68 | 0.68 | | |
| -5.37 | -1.7 | -0.62 | | |
| 5.73 | -2.32 | -4.88 | | |
| 1.93 | -6.35 | -7.35 | | |
| -3.12 | -7.89 | -6.29 | | |
| 6.08 | -1.62 | -4.18 | | |
| 3.91 | -5.13 | -7.05 | | |
| -2.13 | -4.44 | -3.3 | | |
| -2.4 | -4.75 | -3.44 | | |
| -2.7 | -3.74 | -2.27 | | |
| 4.1 | -0.55 | -3.1 | | |
| 1.4 | -0.49 | -1.5 | | |
| 5.03 | -0.77 | -3.33 | | |
| 2.16 | 1.07 | -0.26 | | |
| 1.85 | 1.53 | 0.41 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.74 | -1.84 | -2.87 | | |
| 1.74 | 2.08 | 1.05 | | |
| -2.36 | -2.95 | -1.94 | | |
| -2.69 | -2.24 | -1.04 | | |
| -2.73 | -2.29 | -1.07 | | |
| -3.08 | -2.07 | -0.67 | | |
| -3.11 | -3.73 | -2.32 | | |
| -3.14 | -3.88 | -2.45 | | |
| -5.11 | -2.58 | -0.45 | | |
| -1.07 | 3.08 | 0.52 | | |
| -14.12 | -1.42 | -0.25 | | |
| 3.31 | -3.41 | -5.96 | | |
| 1.52 | 1.37 | -0.06 | | |
| 1.38 | -3.33 | -4.63 | | |
| 1.35 | 1.69 | 0.43 | | |
| 1.34 | 1.25 | -0.01 | | |
| 1.28 | -4.67 | -5.85 | | |
| 1.22 | -2.2 | -3.32 | | |
| 1.2 | -0.19 | -1.28 | | |
| 1.15 | -2.44 | -3.46 | | |
| -4.09 | -5.07 | -3.87 | | |
| 4.34 | 1.83 | -0.72 | | |
| 2.56 | 1.07 | -0.72 | | |
| -3.12 | -2.01 | -0.8 | | |
| -8.95 | -2.03 | 0.7 | | |
| 2.33 | -0.25 | -2.8 | | |
| 1.06 | 1.3 | -0.12 | | |
| -1 | -1.97 | -3.29 | | |
| -1.03 | -2.35 | -3.63 | | |
| -1.04 | -1.52 | -2.79 | | |
| -1.15 | 1.3 | 0.17 | | |
| -1.22 | -1.05 | -2.1 | | |
| -8.13 | -1.28 | 0.42 | | |
| 3.28 | 5.7 | 3.15 | | |
| 2.41 | -0.18 | -2.29 | | |
| 2.08 | -0.96 | -2.86 | | |
| 1.96 | 1.81 | 0.01 | | |
| 1.75 | 1.67 | 0.03 | | |
| 1.71 | -1.11 | -2.72 | | |
| 1.64 | -1.27 | -2.82 | | |
| 1.63 | 1.08 | -0.46 | | |
| 1.57 | -0.05 | -1.54 | | |
| 1.48 | 0.9 | -0.51 | | |
| 1.38 | -0.32 | -1.62 | | |
| 1.29 | 2.26 | 1.05 | | |
| 1.29 | -0.78 | -1.98 | | |
| 1.26 | -1.32 | -2.49 | | |
| 1.2 | -0.78 | -1.89 | | |
| 1.19 | -1.22 | -2.31 | | |
| 1.16 | -1.65 | -2.69 | | |
| 1.15 | -0.29 | -1.32 | | |
| 1.13 | -1.27 | -2.27 | | |
| 1.12 | 1.2 | 0.21 | | |
| 3.65 | 2.82 | 0.27 | | |
| 1.4 | -0.25 | -1.42 | | |
| 1.29 | 1.76 | 0.71 | | |
| 1.25 | 2.61 | 1.61 | | |
| -3.33 | -0.73 | 0.32 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.05 | -2.41 | -1.08 | | |
| -4.81 | -3.26 | -1.68 | | |
| -5.88 | -2.52 | -0.64 | | |
| -5.97 | -1.66 | 0.23 | | |
| -6.15 | -2.71 | -0.77 | | |
| -6.26 | -3.07 | -1.1 | | |
| -8.8 | -3.16 | -0.71 | | |
| 5.73 | -4.73 | -7.28 | | |
| -2.08 | -3.53 | -2.5 | | |
| -2.17 | -7.28 | -6.19 | | |
| -2.47 | -5.93 | -4.65 | | |
| 3.24 | -1.63 | -4.18 | | |
| 1.55 | -2.77 | -4.25 | | |
| 1.39 | 2.89 | 1.56 | | |
| 1.29 | 1.22 | 0.01 | | |
| 1.12 | 0.52 | -0.48 | | |
| 1.44 | -1.23 | -3.78 | | |
| 1.31 | -1.5 | -3.91 | | |
| 1.31 | -1.82 | -4.22 | | |
| 1.29 | 0.08 | -2.31 | | |
| 1.28 | 0.68 | -1.69 | | |
| 1.1 | 1.75 | -0.41 | | |
| 1.07 | -1.07 | -3.19 | | |
| -1 | 4.79 | 2.78 | | |
| -1.03 | 1.04 | -0.92 | | |
| -1.07 | 1.59 | -0.34 | | |
| -1.09 | -1.35 | -3.25 | | |
| -1.12 | 1.14 | -0.71 | | |
| -1.25 | 1.75 | 0.06 | | |
| -1.27 | -1.46 | -3.13 | | |
| -1.64 | -3.7 | -5 | | |
| -2 | -2.35 | -3.36 | | |
| 11.75 | -0.28 | -2.82 | | |
| 7.63 | 0.78 | -1.14 | | |
| 7.02 | -1.65 | -3.45 | | |
| 5.12 | -0.74 | -2.09 | | |
| 1.01 | -2.73 | -1.72 | | |
| -1.03 | -1.51 | -0.46 | | |
| -1.09 | -0.07 | 1.06 | | |
| -1.17 | -2.58 | -1.34 | | |
| 2.17 | -0.19 | -2.73 | | |
| 1.52 | -0.47 | -2.49 | | |
| 1.37 | 2.39 | 0.52 | | |
| 1.27 | -1.52 | -3.28 | | |
| 1.15 | 2.36 | 0.74 | | |
| 1.14 | -0.38 | -1.99 | | |
| 1.12 | 8.02 | 6.45 | | |
| -1.04 | 4.4 | 3.05 | | |
| -1.26 | 3.47 | 2.38 | | |
| -1.31 | -0.43 | -1.46 | | |
| -1.31 | -2.62 | -3.65 | | |
| -5.72 | -1.06 | 0.03 | | |
| 5.28 | 0.1 | -2.44 | | |
| -2.94 | -1.13 | 0.28 | | |
| -2.94 | -1.41 | 0.01 | | |
| 3.51 | 0.6 | -1.94 | | |
| 2.42 | -4.41 | -6.42 | | |
| 1.42 | -4.65 | -5.88 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.41 | -3.98 | -5.19 | | |
| 1.23 | 2.08 | 1.05 | | |
| 24.34 | 1.58 | -0.96 | | |
| 24.25 | 1.35 | -1.18 | | |
| 15.71 | 0.86 | -1.05 | | |
| 13.75 | 0.77 | -0.95 | | |
| 12.58 | 2.15 | 0.57 | | |
| 12.11 | -0.01 | -1.54 | | |
| 11.92 | 0.86 | -0.65 | | |
| 11.7 | 0.09 | -1.39 | | |
| 11.46 | 1.21 | -0.24 | | |
| 9.63 | -0.05 | -1.25 | | |
| 9.31 | -0.28 | -1.43 | | |
| 9.14 | 1 | -0.13 | | |
| 9.03 | -1.45 | -2.56 | | |
| 9.01 | 1.94 | 0.83 | | |
| 2.04 | 1.25 | 2.29 | | |
| 2.04 | 0.64 | 1.68 | | |
| 1.96 | 0 | 1.09 | | |
| 1.8 | -3.47 | -2.25 | | |
| 1.72 | -0.42 | 0.86 | | |
| 1.7 | -2.68 | -1.38 | | |
| 1.63 | -2.46 | -1.1 | | |
| 1.57 | -1.31 | 0.11 | | |
| 1.5 | 1.53 | 3.01 | | |
| 1.39 | -0.11 | 1.48 | | |
| 1.26 | 0.4 | 2.14 | | |
| 1.18 | -1.86 | -0.04 | | |
| 1.08 | 4.16 | 6.11 | | |
| -1.01 | -2.73 | -0.65 | | |
| 7.32 | -0.75 | -3.29 | | |
| 3.66 | -0.71 | -2.25 | | |
| -1.96 | -1.73 | -0.42 | | |
| 7.02 | 1.82 | -0.71 | | |
| 5.85 | 1.32 | -0.95 | | |
| 3.33 | 3.4 | 1.93 | | |
| 2.61 | 3.26 | 2.15 | | |
| 2.54 | 0.61 | -0.46 | | |
| 2.55 | 0.58 | -0.5 | | |
| 2.44 | -0.12 | -1.13 | | |
| -1.69 | 1.03 | 2.06 | | |
| -2 | -1.51 | -0.23 | | |
| -2.02 | -0.27 | 1.02 | | |
| -2.05 | -1.16 | 0.15 | | |
| -3.81 | -1.63 | 0.57 | | |
| 3.28 | -1.12 | -3.65 | | |
| 2.01 | -1.51 | -3.33 | | |
| 1.97 | -3.08 | -4.87 | | |
| 1.63 | 3.16 | 1.64 | | |
| 1.56 | 1.53 | 0.07 | | |
| 1.36 | -1.79 | -3.06 | | |
| 1.28 | -0.73 | -1.91 | | |
| 1.18 | -1.39 | -2.44 | | |
| 2.27 | -1.12 | -3.65 | | |
| 1.44 | -2.67 | -4.55 | | |
| 1.3 | 2.08 | 0.36 | | |
| 1.2 | -0.27 | -1.88 | | |
| -1.01 | 0.26 | -1.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.03 | -1.54 | -2.84 | | |
| -1.23 | 0.73 | -0.32 | | |
| -1.26 | 0.94 | -0.08 | | |
| -1.26 | 1.59 | 0.58 | | |
| -5.6 | -0.86 | 0.28 | | |
| -5.67 | -1.4 | -0.24 | | |
| -5.71 | -0.91 | 0.26 | | |
| -5.92 | -0.12 | 1.1 | | |
| -6.1 | -0.48 | 0.78 | | |
| -8.55 | -2.02 | -0.27 | | |
| 2.56 | 3.67 | 1.14 | | |
| 2.29 | -1.29 | -3.66 | | |
| 1.18 | -1.28 | -2.69 | | |
| 1.11 | -0.53 | -1.86 | | |
| 1.11 | -1.3 | -2.62 | | |
| -1.01 | 1.87 | 0.7 | | |
| -1.05 | 1.27 | 0.17 | | |
| -1.08 | -2.07 | -3.13 | | |
| -1.11 | 0.6 | -0.43 | | |
| -1.13 | -0.9 | -1.9 | | |
| -4.51 | -1.15 | -0.15 | | |
| -5.11 | -0.76 | 0.42 | | |
| -5.32 | -2.22 | -0.98 | | |
| -5.48 | 0.37 | 1.65 | | |
| -5.81 | -1.35 | 0.01 | | |
| -5.85 | -0.26 | 1.11 | | |
| -6.32 | -1.17 | 0.31 | | |
| -6.54 | -1.64 | -0.1 | | |
| -6.58 | -1.88 | -0.34 | | |
| -9.17 | -2.23 | -0.21 | | |
| 4.33 | 0.31 | -2.22 | | |
| 2.62 | -2.76 | -4.57 | | |
| -3.57 | -3.09 | -1.68 | | |
| 31.63 | 2.06 | -0.47 | | |
| 24.37 | 2.56 | 0.41 | | |
| 19.53 | 2.17 | 0.34 | | |
| 2.39 | -1.61 | -0.41 | | |
| 2.03 | -1.45 | -0.02 | | |
| 1.97 | 1.76 | 3.23 | | |
| 1.97 | -2.54 | -1.07 | | |
| 1.51 | 0.47 | 2.33 | | |
| 1.17 | -2.88 | -0.65 | | |
| 1.14 | -2.41 | -0.15 | | |
| 1.03 | -3.08 | -0.68 | | |
| -1.13 | 0.05 | 2.68 | | |
| 6.23 | -1.14 | -3.67 | | |
| 6.07 | -0.75 | -3.24 | | |
| 4.41 | -0.71 | -2.74 | | |
| 2.74 | -2.35 | -3.7 | | |
| 2.16 | 0.12 | -0.88 | | |
| -1.95 | -0.4 | 0.67 | | |
| -3.06 | -0.28 | 1.44 | | |
| 4.22 | 3.8 | 1.28 | | |
| 1.83 | -0.97 | -2.29 | | |
| 1.53 | -2.15 | -3.22 | | |
| 1.52 | -1.04 | -2.09 | | |
| -2.74 | -0.02 | 0.99 | | |
| -3.02 | -1.33 | -0.19 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.5 | 2.86 | 0.34 | | |
| 1.27 | 1.14 | -1.13 | | |
| 1.1 | -0.69 | -2.76 | | |
| 1.09 | 2.86 | 0.8 | | |
| 1.08 | 1.24 | -0.81 | | |
| -1.01 | 3.14 | 1.22 | | |
| -1.06 | -0.51 | -2.36 | | |
| -1.13 | -2.83 | -4.6 | | |
| -1.38 | -0.35 | -1.82 | | |
| -1.59 | 1.77 | 0.51 | | |
| -1.72 | -1.35 | -2.51 | | |
| -7.8 | -1.91 | -0.88 | | |
| -8 | -2.29 | -1.22 | | |
| -9.55 | -1.65 | -0.33 | | |
| -10.55 | -2.18 | -0.72 | | |
| -13.89 | -1.94 | -0.07 | | |
| -14.3 | -1.95 | -0.05 | | |
| -14.83 | -1.9 | 0.06 | | |
| -15.93 | -1.22 | 0.84 | | |
| -22.56 | -2.33 | 0.24 | | |
| 4.78 | -3.98 | -6.5 | | |
| 2.93 | -4.55 | -6.37 | | |
| 2.54 | -5.16 | -6.77 | | |
| 1.76 | 2.65 | 1.57 | | |
| 5.08 | 0.88 | -1.64 | | |
| 2.6 | 2.48 | 0.92 | | |
| -2.44 | 0.64 | 1.76 | | |
| 8.76 | 3.08 | 0.56 | | |
| 3.86 | 1.7 | 0.37 | | |
| 3.47 | 0.34 | -0.84 | | |
| 3.44 | 0.8 | -0.37 | | |
| 3.37 | 1.66 | 0.52 | | |
| 3.25 | 2.22 | 1.14 | | |
| -1.52 | -2.13 | -0.91 | | |
| -1.87 | -1.82 | -0.31 | | |
| -1.91 | 1.65 | 3.2 | | |
| -1.93 | -2.34 | -0.77 | | |
| -1.93 | 1.07 | 2.63 | | |
| -2.16 | 0.22 | 1.94 | | |
| 8.77 | 1.23 | -1.29 | | |
| 4.38 | -0.81 | -2.32 | | |
| 4.04 | 1.18 | -0.22 | | |
| 3.97 | 2.69 | 1.31 | | |
| 3.75 | 0.81 | -0.48 | | |
| 3.61 | -2.06 | -3.29 | | |
| 3.55 | 1.32 | 0.11 | | |
| 3.54 | -1.61 | -2.81 | | |
| 3.37 | 0.77 | -0.36 | | |
| 3.18 | -0.88 | -1.94 | | |
| -1.37 | 0.49 | 1.55 | | |
| -2.02 | -3.88 | -2.25 | | |
| 1.33 | -0.9 | -3.42 | | |
| 1.29 | 2.83 | 0.35 | | |
| -1.05 | -4.79 | -6.84 | | |
| -1.12 | -3.2 | -5.15 | | |
| -1.16 | -4.35 | -6.25 | | |
| -1.19 | 0.22 | -1.64 | | |
| -1.23 | -4.55 | -6.36 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.29 | -1.06 | -2.8 | | |
| -1.36 | 1.46 | -0.2 | | |
| -1.84 | -3.79 | -5.02 | | |
| -2.07 | 0.79 | -0.27 | | |
| -9.67 | -3.12 | -1.96 | | |
| -14.31 | -3.75 | -2.02 | | |
| -16.41 | -4.97 | -3.05 | | |
| -19.46 | -4.41 | -2.23 | | |
| 3.6 | -1.47 | -3.99 | | |
| 2.3 | -1.65 | -3.52 | | |
| 1.61 | 5.66 | 4.31 | | |
| 1.6 | -0.01 | -1.35 | | |
| 1.48 | 0.26 | -0.96 | | |
| 1.47 | -2.04 | -3.26 | | |
| 1.46 | -0.92 | -2.13 | | |
| 1.45 | 0.45 | -0.75 | | |
| 1.39 | -1.2 | -2.34 | | |
| 1.32 | 0.05 | -1.02 | | |
| 1.28 | -0.8 | -1.81 | | |
| 1.26 | -0.68 | -1.68 | | |
| -3.16 | -3.38 | -2.39 | | |
| -3.2 | -2.6 | -1.58 | | |
| -3.31 | -3.89 | -2.83 | | |
| -3.43 | -0.41 | 0.7 | | |
| -3.44 | -2.66 | -1.54 | | |
| -3.54 | -3.44 | -2.28 | | |
| -3.6 | -1.85 | -0.66 | | |
| -3.69 | -1.63 | -0.41 | | |
| -3.78 | -2.2 | -0.95 | | |
| -3.8 | -2.34 | -1.08 | | |
| -3.8 | -2.31 | -1.05 | | |
| -3.89 | -2.12 | -0.83 | | |
| -3.89 | -1.21 | 0.08 | | |
| -4.15 | -3.05 | -1.66 | | |
| -4.2 | -1.43 | -0.02 | | |
| -4.5 | -3.01 | -1.51 | | |
| -4.58 | -0.46 | 1.07 | | |
| -4.6 | -1.03 | 0.51 | | |
| -4.72 | -2.85 | -1.27 | | |
| -5.81 | -0.43 | 1.44 | | |
| -6.06 | -1.84 | 0.1 | | |
| -6.38 | -2.7 | -0.69 | | |
| -6.43 | -2.39 | -0.37 | | |
| -7.43 | -2.91 | -0.68 | | |
| -7.5 | -2.1 | 0.14 | | |
| 1.77 | 0.61 | -1.9 | | |
| 1.59 | 6.46 | 4.1 | | |
| 1.24 | -2.44 | -4.42 | | |
| 1.13 | -0.04 | -1.9 | | |
| 1.04 | -1.12 | -2.86 | | |
| -1.06 | -0.36 | -1.96 | | |
| -1.07 | 2.64 | 1.06 | | |
| -1.08 | -1.56 | -3.13 | | |
| -1.26 | -1.22 | -2.56 | | |
| -8.07 | -1.88 | -0.55 | | |
| -9.62 | -3.06 | -1.48 | | |
| 4.61 | -0.21 | -2.72 | | |
| 3.67 | -2.14 | -4.32 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.27 | -0.22 | -2.23 | | |
| 1.91 | -2.07 | -3.3 | | |
| -2.54 | -0.09 | 0.96 | | |
| -2.65 | -1.13 | -0.03 | | |
| -2.89 | -4.19 | -2.96 | | |
| -3.1 | -1.37 | -0.04 | | |
| -4.47 | -3.42 | -1.56 | | |
| 2.33 | -4.52 | -7.02 | | |
| 1.64 | -2.81 | -4.81 | | |
| 1.04 | -5.91 | -7.26 | | |
| 1.01 | -2.35 | -3.65 | | |
| -1 | -3.46 | -4.74 | | |
| -1.02 | 2.69 | 1.44 | | |
| -1.2 | -5.21 | -6.24 | | |
| 5.88 | -1.82 | -4.32 | | |
| 5.16 | -2.57 | -4.88 | | |
| 4.44 | -4.14 | -6.24 | | |
| 2.61 | -3.63 | -4.96 | | |
| 2.16 | -5.24 | -6.31 | | |
| 2.09 | -3.83 | -4.85 | | |
| 8.65 | 2.7 | 0.2 | | |
| 8.64 | 1.4 | -1.1 | | |
| 7.48 | 1.04 | -1.26 | | |
| 5.78 | 2.61 | 0.69 | | |
| 5.33 | 1.95 | 0.14 | | |
| 5.12 | 2.4 | 0.65 | | |
| 5.08 | 1.67 | -0.07 | | |
| 4.49 | -0.01 | -1.57 | | |
| 4.46 | -1.06 | -2.61 | | |
| 3.61 | 1.12 | -0.13 | | |
| 3.41 | 1.43 | 0.27 | | |
| 3.2 | 1.35 | 0.27 | | |
| -1.48 | -0.23 | 0.94 | | |
| -1.69 | -2.83 | -1.46 | | |
| 1.57 | -2.12 | -4.62 | | |
| 1.16 | -3.36 | -5.43 | | |
| 1.13 | -2.28 | -4.3 | | |
| 1.09 | -4 | -5.99 | | |
| 1.07 | -2.41 | -4.36 | | |
| -1.06 | 3.96 | 2.18 | | |
| -1.27 | -4.2 | -5.72 | | |
| -1.27 | -1.57 | -3.08 | | |
| -1.27 | -2.59 | -4.09 | | |
| -1.32 | -1.24 | -2.69 | | |
| -1.35 | -2.42 | -3.84 | | |
| -1.38 | 2.01 | 0.61 | | |
| -1.47 | -0.23 | -1.53 | | |
| -1.51 | -3.78 | -5.04 | | |
| -1.58 | -4.07 | -5.27 | | |
| -1.59 | -3.44 | -4.63 | | |
| -1.61 | -3.06 | -4.23 | | |
| -1.67 | 0.83 | -0.29 | | |
| -1.8 | -2.39 | -3.4 | | |
| 3.28 | -1.09 | -3.6 | | |
| 2.01 | -1.48 | -3.28 | | |
| 1.86 | 1.43 | -0.26 | | |
| 1.67 | -2.13 | -3.66 | | |
| 1.63 | 3.18 | 1.69 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.4 | 0.18 | -1.1 | | |
| 1.36 | -1.77 | -3.01 | | |
| 1.29 | -2.14 | -3.3 | | |
| 1.27 | -1.93 | -3.06 | | |
| 5.14 | -2.37 | -4.88 | | |
| 2.12 | -2.08 | -3.3 | | |
| 2.06 | -2.73 | -3.91 | | |
| -2.55 | -2.2 | -0.99 | | |
| 4.88 | -0.42 | -2.91 | | |
| 1.95 | 0.19 | -0.99 | | |
| 1.87 | -3.06 | -4.17 | | |
| 25.14 | -0.19 | -2.68 | | |
| 11.17 | -1.08 | -2.4 | | |
| 10.39 | -1.22 | -2.44 | | |
| 9.01 | -3.17 | -4.19 | | |
| 2.1 | -2.61 | -1.53 | | |
| 2.05 | -6.01 | -4.89 | | |
| 1.93 | -5.58 | -4.37 | | |
| 1.93 | -0.62 | 0.59 | | |
| 1.84 | -4.58 | -3.31 | | |
| 1.71 | -0.38 | 1 | | |
| 1.63 | -2.42 | -0.96 | | |
| 1.48 | -5.53 | -3.94 | | |
| 1.45 | -1.8 | -0.17 | | |
| 1.38 | -2.37 | -0.68 | | |
| 1.35 | 0.05 | 1.77 | | |
| 1.35 | -0.84 | 0.88 | | |
| 1.32 | -2.86 | -1.1 | | |
| 1.32 | -4.61 | -2.85 | | |
| 1.31 | -2.99 | -1.23 | | |
| 1.05 | -5.79 | -3.7 | | |
| 1.04 | -2.95 | -0.85 | | |
| -1.34 | -2.79 | -0.22 | | |
| -1.38 | -5.08 | -2.46 | | |
| 3.1 | -2.31 | -4.8 | | |
| 1.8 | -0.34 | -2.05 | | |
| 1.3 | -3.35 | -4.59 | | |
| 1.26 | 1.78 | 0.59 | | |
| -3.73 | -1.36 | -0.31 | | |
| -4.03 | -2.9 | -1.74 | | |
| -4.2 | -3.98 | -2.77 | | |
| -4.78 | -1.24 | 0.16 | | |
| 11.74 | -0.75 | -3.24 | | |
| -1.02 | -2.18 | -1.1 | | |
| -1.11 | 4.78 | 6 | | |
| -1.11 | 4.78 | 6 | | |
| -1.49 | 1.21 | 2.85 | | |
| 1.71 | 1.45 | -1.04 | | |
| 1.4 | -1.04 | -3.24 | | |
| 1.08 | -0.5 | -2.32 | | |
| 1.07 | 0.94 | -0.88 | | |
| 1.03 | -0.31 | -2.07 | | |
| 1.01 | -1 | -2.73 | | |
| -1.06 | 1.38 | -0.25 | | |
| -1.07 | 1.32 | -0.3 | | |
| -1.12 | 2.27 | 0.71 | | |
| -1.12 | -0.35 | -1.9 | | |
| -1.12 | -1.38 | -2.93 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.14 | -0.06 | -1.59 | | |
| -1.21 | 1.7 | 0.26 | | |
| -1.22 | 1.71 | 0.28 | | |
| -1.28 | -0.4 | -1.76 | | |
| -1.28 | 1.36 | 0 | | |
| -1.33 | 0.44 | -0.87 | | |
| -1.34 | 0.37 | -0.92 | | |
| -1.37 | 1.81 | 0.55 | | |
| -1.43 | -2.96 | -4.15 | | |
| -1.49 | -0.94 | -2.09 | | |
| -1.53 | 1.21 | 0.1 | | |
| -1.63 | 0.77 | -0.24 | | |
| -8.64 | -2.3 | -0.91 | | |
| -9.81 | -1.31 | 0.27 | | |
| -10.28 | -2.44 | -0.8 | | |
| -11.06 | -1.4 | 0.35 | | |
| -11.27 | -2.38 | -0.6 | | |
| -21.32 | -2.38 | 0.32 | | |
| -22.6 | -1.81 | 0.97 | | |
| -22.83 | -2.08 | 0.71 | | |
| -46.77 | -3.76 | 0.07 | | |
| 3.4 | -6.05 | -8.54 | | |
| 1.78 | -5.14 | -6.7 | | |
| 1.47 | -4.83 | -6.11 | | |
| 1.46 | -5.87 | -7.14 | | |
| -4.73 | -2.11 | -0.59 | | |
| -5.03 | -5.11 | -3.5 | | |
| 4.29 | 4.33 | 1.84 | | |
| 1.61 | 1.15 | 0.08 | | |
| 35.33 | 1.44 | -1.05 | | |
| 26.48 | 1.46 | -0.61 | | |
| 26.46 | 1.15 | -0.92 | | |
| 23.57 | 1.64 | -0.26 | | |
| 22.26 | 0.79 | -1.02 | | |
| 20.26 | 0.27 | -1.41 | | |
| 20.14 | 2.63 | 0.96 | | |
| 19.99 | 0.12 | -1.54 | | |
| 19.95 | 0.75 | -0.91 | | |
| 18.84 | 1.02 | -0.56 | | |
| 18.67 | 0 | -1.56 | | |
| 18.57 | 1.16 | -0.4 | | |
| 16.29 | 0.67 | -0.69 | | |
| 14.96 | 0.58 | -0.67 | | |
| 14.71 | 1.71 | 0.49 | | |
| 14.64 | 2.27 | 1.06 | | |
| 14.09 | 0.15 | -1.01 | | |
| 3.14 | -0.95 | 0.05 | | |
| 3.08 | -1.61 | -0.58 | | |
| 2.99 | -2.08 | -1 | | |
| 2.88 | -0.24 | 0.89 | | |
| 2.84 | 3.11 | 4.26 | | |
| 2.83 | -1.67 | -0.51 | | |
| 2.81 | -0.1 | 1.07 | | |
| 2.68 | -2.3 | -1.06 | | |
| 2.53 | 0.26 | 1.58 | | |
| 2.51 | -2.88 | -1.55 | | |
| 2.45 | -2.23 | -0.86 | | |
| 2.17 | -3.07 | -1.53 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.14 | -2.17 | -0.61 | | |
| 1.98 | -1.65 | 0.02 | | |
| 1.97 | -2.83 | -1.15 | | |
| 1.88 | -2.36 | -0.62 | | |
| 1.84 | -2.63 | -0.85 | | |
| 1.81 | -3.45 | -1.64 | | |
| 1.66 | -3.75 | -1.82 | | |
| 1.66 | -1.05 | 0.89 | | |
| 1.63 | -1.55 | 0.41 | | |
| 1.59 | -3.58 | -1.58 | | |
| 1.48 | -1.6 | 0.5 | | |
| 1.3 | -1.85 | 0.44 | | |
| 1.26 | -2.85 | -0.53 | | |
| 1.18 | -3.65 | -1.23 | | |
| 1.16 | -3.44 | -1 | | |
| 1.04 | 1.96 | 4.57 | | |
| 6.87 | -2.68 | -5.17 | | |
| -1.74 | -5.8 | -4.71 | | |
| 3.9 | -1.9 | -4.38 | | |
| 1.92 | 0.81 | -0.66 | | |
| 1.67 | -1.21 | -2.47 | | |
| 4.83 | -1.33 | -3.81 | | |
| -2.75 | -3.05 | -1.8 | | |
| 1.2 | -2.35 | -4.82 | | |
| 1.05 | -1.48 | -3.76 | | |
| -1.39 | -0.9 | -2.64 | | |
| -1.49 | -1.13 | -2.77 | | |
| -1.54 | -2.91 | -4.5 | | |
| -9.84 | -1.4 | -0.32 | | |
| -26.19 | -1.51 | 0.98 | | |
| 3.23 | -2.13 | -4.61 | | |
| 1.77 | -3.9 | -5.5 | | |
| 1.5 | -4.15 | -5.52 | | |
| 1.38 | 3.24 | 2 | | |
| 1.32 | -0.82 | -2.01 | | |
| 1.31 | -3.89 | -5.06 | | |
| 1.26 | -4.14 | -5.26 | | |
| 1.22 | -0.66 | -1.74 | | |
| 1.17 | -0.29 | -1.31 | | |
| 3.42 | -3.12 | -5.6 | | |
| 2.48 | -2.66 | -4.67 | | |
| 1.64 | 0.84 | -0.57 | | |
| 1.53 | -3.34 | -4.65 | | |
| 1.43 | -0.31 | -1.52 | | |
| 1.42 | -0.9 | -2.11 | | |
| 1.39 | -1.4 | -2.57 | | |
| 1.28 | -1.44 | -2.49 | | |
| 1.27 | -0.63 | -1.67 | | |
| -3.62 | -1.46 | -0.31 | | |
| -6.79 | -3.98 | -1.92 | | |
| 3.42 | -3.12 | -5.6 | | |
| 2.48 | -2.66 | -4.67 | | |
| 1.9 | -3.17 | -4.8 | | |
| 1.64 | 0.84 | -0.57 | | |
| 1.43 | -0.31 | -1.52 | | |
| 1.42 | -0.9 | -2.11 | | |
| 1.39 | -1.4 | -2.57 | | |
| 1.28 | -1.44 | -2.49 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.27 | -0.63 | -1.67 | | |
| -3.62 | -1.46 | -0.31 | | |
| -6.79 | -3.98 | -1.92 | | |
| 3.42 | -3.12 | -5.6 | | |
| 2.48 | -2.66 | -4.67 | | |
| 2.05 | -1.42 | -3.15 | | |
| 1.9 | -3.17 | -4.8 | | |
| 1.64 | 0.84 | -0.57 | | |
| 1.43 | -0.31 | -1.52 | | |
| 1.42 | -0.9 | -2.11 | | |
| 1.28 | -1.44 | -2.49 | | |
| 1.27 | -0.63 | -1.67 | | |
| -3.62 | -1.46 | -0.31 | | |
| -6.79 | -3.98 | -1.92 | | |
| 3.42 | -3.12 | -5.6 | | |
| 2.48 | -2.66 | -4.67 | | |
| 1.64 | 0.84 | -0.57 | | |
| 1.53 | -3.34 | -4.65 | | |
| 1.43 | -0.31 | -1.52 | | |
| 1.42 | -0.9 | -2.11 | | |
| 1.39 | -1.4 | -2.57 | | |
| 1.28 | -1.44 | -2.49 | | |
| 1.27 | -0.63 | -1.67 | | |
| -3.62 | -1.46 | -0.31 | | |
| -6.79 | -3.98 | -1.92 | | |
| 3.4 | -6.25 | -8.72 | | |
| 1.47 | -5.03 | -6.3 | | |
| 1.46 | -6.07 | -7.32 | | |
| 1.32 | -5.85 | -6.96 | | |
| -4.73 | -2.3 | -0.77 | | |
| 3.42 | -3.12 | -5.6 | | |
| 2.48 | -2.66 | -4.67 | | |
| 2.05 | -1.42 | -3.15 | | |
| 1.9 | -3.17 | -4.8 | | |
| 1.64 | 0.84 | -0.57 | | |
| 1.43 | -0.31 | -1.52 | | |
| 1.42 | -0.9 | -2.11 | | |
| 1.28 | -1.44 | -2.49 | | |
| 1.27 | -0.63 | -1.67 | | |
| -3.62 | -1.46 | -0.31 | | |
| -6.79 | -3.98 | -1.92 | | |
| 3.42 | -3.12 | -5.6 | | |
| 2.48 | -2.66 | -4.67 | | |
| 1.9 | -3.17 | -4.8 | | |
| 1.64 | 0.84 | -0.57 | | |
| 1.43 | -0.31 | -1.52 | | |
| 1.42 | -0.9 | -2.11 | | |
| 1.39 | -1.4 | -2.57 | | |
| 1.28 | -1.44 | -2.49 | | |
| 1.27 | -0.63 | -1.67 | | |
| -3.62 | -1.46 | -0.31 | | |
| -6.79 | -3.98 | -1.92 | | |
| 3.64 | 4.92 | 2.44 | | |
| 1.61 | 1.04 | -0.26 | | |
| 1.46 | 2.72 | 1.57 | | |
| 1.34 | -0.68 | -1.71 | | |
| 2.88 | -0.34 | -2.81 | | |
| 1.38 | 1.76 | 0.35 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.2 | 5.03 | 3.82 | | |
| -4.17 | 0.03 | 1.14 | | |
| -4.25 | -1.06 | 0.08 | | |
| -5.77 | -0.26 | 1.32 | | |
| 3.47 | -0.51 | -2.98 | | |
| 3.44 | 0.21 | -2.24 | | |
| 1.65 | -1 | -2.4 | | |
| 1.6 | 1.56 | 0.2 | | |
| 1.51 | 2.46 | 1.19 | | |
| 1.46 | -1.43 | -2.65 | | |
| 1.3 | 0.97 | -0.08 | | |
| 1.3 | -0.62 | -1.67 | | |
| -3.32 | 0.08 | 1.14 | | |
| -3.35 | 2.64 | 3.72 | | |
| -3.52 | -1.52 | -0.37 | | |
| -3.68 | 1.12 | 2.33 | | |
| -4.13 | 0.7 | 2.07 | | |
| -4.23 | 0.98 | 2.39 | | |
| -4.33 | -1.36 | 0.08 | | |
| -4.45 | 0.94 | 2.42 | | |
| -4.56 | 2.25 | 3.76 | | |
| -6.38 | -0.01 | 1.99 | | |
| -6.47 | -1.1 | 0.92 | | |
| -6.63 | 0.23 | 2.28 | | |
| -10.38 | -1.67 | 1.03 | | |
| 3.03 | 0.5 | -1.97 | | |
| 1.82 | 0.19 | -1.54 | | |
| 1.66 | 2.15 | 0.55 | | |
| 1.63 | -1.6 | -3.18 | | |
| 1.16 | 1.2 | 0.12 | | |
| 16.46 | -0.96 | -3.43 | | |
| 10.92 | 0.5 | -1.38 | | |
| 9.43 | -1.26 | -2.92 | | |
| 9.33 | 1.66 | 0.02 | | |
| 8.28 | 0.11 | -1.36 | | |
| 7.87 | -0.01 | -1.41 | | |
| 7.69 | 2.01 | 0.64 | | |
| 7.57 | 2.38 | 1.03 | | |
| 7.42 | 1.91 | 0.6 | | |
| 7.08 | -0.94 | -2.19 | | |
| 1.31 | 0.89 | 2.08 | | |
| 1.02 | -0.2 | 1.35 | | |
| 1.56 | -3.03 | -5.49 | | |
| -1.05 | 0.95 | -0.8 | | |
| -1.1 | 3.48 | 1.79 | | |
| -1.14 | 0.76 | -0.88 | | |
| -1.35 | 1.11 | -0.28 | | |
| -1.45 | -0.84 | -2.13 | | |
| -1.49 | -3.93 | -5.18 | | |
| -1.59 | 3.3 | 2.14 | | |
| -1.67 | 0.16 | -0.93 | | |
| -8.21 | -3.16 | -1.95 | | |
| -9.18 | -2.03 | -0.66 | | |
| 10.6 | 0.17 | -2.29 | | |
| 4.11 | -0.38 | -1.48 | | |
| -1.17 | 2.32 | 3.49 | | |
| 1.41 | -1.52 | -3.99 | | |
| 1.07 | -1.96 | -4.02 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.06 | 3.73 | 1.69 | | |
| -1.17 | -2.44 | -4.17 | | |
| -1.18 | 1.43 | -0.29 | | |
| -1.21 | -2 | -3.69 | | |
| -1.36 | -2.43 | -3.95 | | |
| -1.47 | -0.8 | -2.21 | | |
| -1.62 | 1.27 | 0 | | |
| -1.62 | -1.79 | -3.05 | | |
| -1.76 | -1.19 | -2.34 | | |
| -8.83 | -0.95 | 0.23 | | |
| -11.88 | -1.59 | 0.01 | | |
| -14.55 | -2.36 | -0.46 | | |
| 3.76 | 2.9 | 0.45 | | |
| 1.48 | 0.45 | -0.66 | | |
| 1.43 | 1.33 | 0.27 | | |
| 1.42 | 1.25 | 0.2 | | |
| -3.19 | -0.48 | 0.65 | | |
| -3.71 | -0.56 | 0.78 | | |
| -3.83 | -0.24 | 1.15 | | |
| -4.04 | -0.23 | 1.23 | | |
| 3.19 | 2.46 | 0 | | |
| 2.24 | 2.11 | 0.16 | | |
| 1.99 | 2.75 | 0.97 | | |
| 1.79 | 0.68 | -0.95 | | |
| 1.7 | 0.23 | -1.32 | | |
| 1.61 | 0.06 | -1.41 | | |
| 1.57 | 0.33 | -1.11 | | |
| 1.54 | 1.01 | -0.41 | | |
| 1.4 | 2.2 | 0.93 | | |
| 1.28 | 1.21 | 0.07 | | |
| 1.22 | -0.55 | -1.62 | | |
| 1.22 | 1.38 | 0.31 | | |
| 3.98 | -0.16 | -2.62 | | |
| 2.16 | 0.33 | -1.25 | | |
| 1.8 | 2.96 | 1.65 | | |
| 1.65 | -1.9 | -3.09 | | |
| -4.08 | -3.3 | -1.73 | | |
| 3.25 | -4.79 | -7.24 | | |
| 1.62 | -0.46 | -1.91 | | |
| 1.44 | -2.34 | -3.62 | | |
| 1.4 | -0.64 | -1.88 | | |
| -4.42 | -6.36 | -4.97 | | |
| -4.46 | -6.65 | -5.25 | | |
| 6.54 | 1.09 | -1.36 | | |
| 3.22 | 4.73 | 3.3 | | |
| 3.04 | 1.93 | 0.59 | | |
| 2.97 | 2.34 | 1.02 | | |
| 2.65 | 0.16 | -0.99 | | |
| 2.51 | 1.2 | 0.12 | | |
| -1.79 | -1.47 | -0.37 | | |
| -1.82 | -0.52 | 0.6 | | |
| -1.85 | -2.54 | -1.39 | | |
| -2.06 | 1 | 2.3 | | |
| -2.32 | -1.08 | 0.39 | | |
| -2.38 | -3.92 | -2.41 | | |
| -4.69 | -3.53 | -1.05 | | |
| 1.18 | 1.85 | -0.6 | | |
| 1.09 | 2.8 | 0.46 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.19 | -0.1 | -2.07 | | |
| -1.37 | 0.71 | -1.05 | | |
| -1.59 | -0.25 | -1.79 | | |
| -2.18 | -3.55 | -4.64 | | |
| -11.18 | -2.82 | -1.55 | | |
| -13.59 | -0.37 | 1.18 | | |
| 2.47 | -2.86 | -5.31 | | |
| 1.31 | 3.08 | 1.55 | | |
| 1.24 | 5.37 | 3.92 | | |
| 1.19 | -0.42 | -1.82 | | |
| 1.16 | 3.85 | 2.5 | | |
| 1.03 | 1.6 | 0.42 | | |
| -1.03 | -0.57 | -1.67 | | |
| -6.09 | -2.35 | -0.88 | | |
| 3.03 | -3.11 | -5.56 | | |
| 1.52 | -0.33 | -1.79 | | |
| 1.48 | 1.42 | 0.01 | | |
| 1.14 | -3.43 | -4.46 | | |
| -3.61 | -1.73 | -0.73 | | |
| -4 | -4.38 | -3.23 | | |
| -4.02 | -3.12 | -1.96 | | |
| 18.82 | 0.24 | -2.21 | | |
| 13.81 | 0.53 | -1.47 | | |
| 12.73 | 0.9 | -0.98 | | |
| 7.02 | 0.54 | -0.48 | | |
| 1.65 | -0.89 | 0.17 | | |
| 1.3 | -0.55 | 0.86 | | |
| -1.02 | -3.13 | -1.32 | | |
| -1.12 | 5.77 | 7.71 | | |
| -1.15 | -3.55 | -1.56 | | |
| 3.76 | -4.63 | -7.08 | | |
| 1.68 | -6.17 | -7.45 | | |
| 1.59 | -8.3 | -9.5 | | |
| 1.5 | -5.86 | -6.98 | | |
| 1.49 | -5.23 | -6.34 | | |
| 3.12 | -1.06 | -3.5 | | |
| 1.99 | -0.87 | -2.67 | | |
| 1.33 | 0.25 | -0.97 | | |
| 1.22 | -0.62 | -1.71 | | |
| -3.71 | -0.56 | 0.53 | | |
| -4.22 | -1.25 | 0.03 | | |
| -5.37 | -1.34 | 0.28 | | |
| -5.67 | -3.1 | -1.4 | | |
| -10.83 | -2.95 | -0.32 | | |
| -22.34 | -4.59 | -0.91 | | |
| 2.05 | 3.73 | 1.29 | | |
| 1.89 | 5.5 | 3.17 | | |
| 1.19 | 1.97 | 0.31 | | |
| 1.18 | -1.64 | -3.28 | | |
| 1.17 | -4.03 | -5.66 | | |
| -8.59 | -1 | 0.7 | | |
| -16.67 | -2.65 | 0.01 | | |
| 1.4 | 1.35 | -1.08 | | |
| 1.34 | 3.09 | 0.73 | | |
| -1.52 | -3.37 | -4.72 | | |
| -1.85 | 1.07 | 0.02 | | |
| 1.99 | 2.13 | -0.31 | | |
| 1.14 | 0.08 | -1.55 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.12 | 0.54 | -1.07 | | |
| 1.08 | 3.74 | 2.18 | | |
| 1.03 | 2.02 | 0.54 | | |
| -1.08 | -2.19 | -3.53 | | |
| -1.27 | 1.28 | 0.18 | | |
| -1.32 | -0.07 | -1.11 | | |
| -7.39 | -0.16 | 1.28 | | |
| -8.67 | 0.59 | 2.27 | | |
| -12.82 | 0.53 | 2.77 | | |
| -14.69 | -0.4 | 2.03 | | |
| 2.13 | -4.51 | -6.94 | | |
| 1.26 | 0.46 | -1.23 | | |
| 1.18 | 3.15 | 1.56 | | |
| 1.11 | -3.47 | -4.96 | | |
| 1.08 | -2.49 | -3.94 | | |
| -1.03 | -1.56 | -2.87 | | |
| -1.03 | -2.12 | -3.42 | | |
| -1.04 | -0.23 | -1.52 | | |
| -1.21 | 0.04 | -1.04 | | |
| -1.21 | -6.01 | -7.08 | | |
| 2.45 | -0.18 | -2.61 | | |
| 1.28 | 0.98 | -0.51 | | |
| -1.01 | 1.11 | -0.02 | | |
| -1.06 | 1.65 | 0.59 | | |
| 10.55 | 2.36 | -0.07 | | |
| 6.09 | 2.64 | 1 | | |
| -1.03 | 0.75 | 1.77 | | |
| 2.39 | 0.55 | -1.88 | | |
| 1.86 | 1.86 | -0.2 | | |
| 1.45 | 2.42 | 0.71 | | |
| 1.42 | -1.88 | -3.56 | | |
| 1.34 | -1.79 | -3.38 | | |
| 1.22 | -0.14 | -1.6 | | |
| 1.21 | -3.69 | -5.15 | | |
| 1.18 | -3.85 | -5.27 | | |
| 1.18 | -0.23 | -1.64 | | |
| 1.13 | -0.62 | -1.97 | | |
| 1.08 | 2.68 | 1.4 | | |
| 1.07 | -4.38 | -5.65 | | |
| 1.05 | -1.15 | -2.39 | | |
| 1.04 | -3.85 | -5.09 | | |
| 1.04 | -0.53 | -1.76 | | |
| 1 | 5.92 | 4.75 | | |
| -1.02 | -1.29 | -2.43 | | |
| -1.03 | -2.17 | -3.3 | | |
| -1.03 | -1.86 | -2.99 | | |
| -1.06 | 2.32 | 1.23 | | |
| -1.11 | 0.07 | -0.96 | | |
| 2.42 | 0.32 | -2.11 | | |
| 1.28 | -3.3 | -4.81 | | |
| 1.17 | -2.08 | -3.46 | | |
| 1.14 | -2.27 | -3.61 | | |
| 1.11 | 3.62 | 2.33 | | |
| 1.08 | -3.01 | -4.27 | | |
| 1.07 | -2.89 | -4.15 | | |
| 1.01 | -1.74 | -2.91 | | |
| -1.05 | 2.19 | 1.1 | | |
| -1.06 | -2.24 | -3.32 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.09 | -3.45 | -4.48 | | |
| -1.11 | -2.02 | -3.03 | | |
| -4.72 | -2.12 | -1.03 | | |
| -4.86 | -3.17 | -2.04 | | |
| 8.9 | -2.47 | -4.9 | | |
| -1.22 | -3.77 | -2.77 | | |
| -1.22 | -4.58 | -3.56 | | |
| -1.25 | -1.51 | -0.46 | | |
| -1.38 | -2.73 | -1.54 | | |
| -1.44 | -4.43 | -3.19 | | |
| -1.53 | -3.68 | -2.34 | | |
| -1.64 | -3.45 | -2 | | |
| -1.8 | -3.43 | -1.85 | | |
| -1.96 | -2.2 | -0.5 | | |
| -2.35 | -4.26 | -2.3 | | |
| 4.55 | 6.43 | 4 | | |
| 1.94 | 0.38 | -0.82 | | |
| 1.91 | 0.93 | -0.24 | | |
| 3.42 | -1.84 | -4.26 | | |
| -3.56 | -1.71 | -0.53 | | |
| 37.31 | 2.18 | -0.24 | | |
| 36.92 | 1.7 | -0.71 | | |
| 34.58 | 1.19 | -1.12 | | |
| 27.29 | 2.13 | 0.17 | | |
| 23.23 | 2.22 | 0.48 | | |
| 22.69 | 1.11 | -0.59 | | |
| 17.16 | 1.58 | 0.29 | | |
| 16.07 | 0.68 | -0.52 | | |
| 15.55 | 2.01 | 0.85 | | |
| 15.01 | 0.08 | -1.03 | | |
| 14.1 | -0.13 | -1.15 | | |
| 3.14 | 0.94 | 2.09 | | |
| 2.84 | -2.84 | -1.54 | | |
| 2.8 | -2.14 | -0.82 | | |
| 2.6 | 1.27 | 2.69 | | |
| 2.54 | -1.93 | -0.47 | | |
| 2.26 | -2.96 | -1.33 | | |
| 2.06 | -1.97 | -0.21 | | |
| 1.88 | -2.16 | -0.27 | | |
| 1.82 | -3.53 | -1.59 | | |
| 1.78 | 0.96 | 2.93 | | |
| 1.72 | -2.71 | -0.69 | | |
| 1.63 | -1.94 | 0.15 | | |
| 1.62 | 1.2 | 3.3 | | |
| 1.61 | -3.73 | -1.62 | | |
| 1.54 | 0.59 | 2.77 | | |
| 1.4 | -3.3 | -0.98 | | |
| 1.05 | -1.78 | 0.94 | | |
| 1.01 | -1.43 | 1.37 | | |
| -1.09 | -0.01 | 2.91 | | |
| 6.54 | 1.17 | -1.25 | | |
| 3.22 | 4.81 | 3.41 | | |
| 3.04 | 2.01 | 0.69 | | |
| 2.97 | 2.41 | 1.13 | | |
| 2.65 | 0.24 | -0.88 | | |
| 2.51 | 1.27 | 0.23 | | |
| -1.65 | 1.32 | 2.33 | | |
| -1.71 | -0.71 | 0.35 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.79 | -1.4 | -0.27 | | |
| -1.82 | -0.44 | 0.71 | | |
| -1.85 | -2.46 | -1.29 | | |
| -2.06 | 1.08 | 2.41 | | |
| -2.32 | -1 | 0.5 | | |
| -2.38 | -3.84 | -2.3 | | |
| -4.69 | -3.46 | -0.94 | | |
| 2.36 | 0.25 | -2.17 | | |
| 1.57 | -1.19 | -3.02 | | |
| 1.36 | 2.5 | 0.89 | | |
| 1.18 | -3.61 | -5.02 | | |
| 1.11 | 1.87 | 0.54 | | |
| 1.02 | -2.55 | -3.75 | | |
| -1.04 | 0.37 | -0.75 | | |
| -5.85 | -1.85 | -0.48 | | |
| -6.2 | -2.81 | -1.35 | | |
| -8.46 | -1.52 | 0.39 | | |
| 3.94 | -3.91 | -6.33 | | |
| 3.61 | -0.38 | -2.67 | | |
| 1.84 | -2.37 | -3.69 | | |
| 1.64 | -3.83 | -4.98 | | |
| 1.49 | -4.3 | -5.31 | | |
| -2.92 | -4.86 | -3.75 | | |
| -2.94 | -4.28 | -3.17 | | |
| 6.54 | 1.11 | -1.31 | | |
| 3.22 | 4.75 | 3.36 | | |
| 3.04 | 1.95 | 0.64 | | |
| 2.97 | 2.35 | 1.08 | | |
| 2.65 | 0.18 | -0.94 | | |
| 2.51 | 1.21 | 0.18 | | |
| -1.65 | 1.26 | 2.28 | | |
| -1.79 | -1.45 | -0.32 | | |
| -1.82 | -0.5 | 0.66 | | |
| -1.85 | -2.52 | -1.34 | | |
| -2.06 | 1.02 | 2.35 | | |
| -2.32 | -1.06 | 0.45 | | |
| -2.38 | -3.9 | -2.35 | | |
| -4.69 | -3.52 | -0.99 | | |
| 57.83 | 2.9 | 0.49 | | |
| 56.96 | 2.02 | -0.37 | | |
| 53.9 | 2.26 | -0.05 | | |
| 50.47 | 2.28 | 0.07 | | |
| 35.11 | 1.49 | -0.2 | | |
| 34.2 | 1.02 | -0.63 | | |
| 32.38 | 2.91 | 1.33 | | |
| 26.82 | 2.17 | 0.87 | | |
| 22.89 | 1.35 | 0.28 | | |
| 22.66 | 0.4 | -0.66 | | |
| 22.35 | -0.1 | -1.15 | | |
| 22.29 | 2.35 | 1.31 | | |
| 21.86 | 0.97 | -0.03 | | |
| 21.71 | 0.42 | -0.58 | | |
| 5.12 | 2.88 | 3.96 | | |
| 4.68 | -1.81 | -0.6 | | |
| 4.63 | -2.18 | -0.95 | | |
| 4.57 | -1.86 | -0.61 | | |
| 4.03 | -1.07 | 0.36 | | |
| 3.57 | -1.94 | -0.33 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.55 | -1 | 0.61 | | |
| 3.44 | -2.17 | -0.51 | | |
| 3.29 | -0.85 | 0.87 | | |
| 3.19 | -0.56 | 1.21 | | |
| 2.82 | -0.87 | 1.07 | | |
| 2.73 | 1.99 | 3.98 | | |
| 2.72 | -2.29 | -0.29 | | |
| 2.64 | -1.69 | 0.36 | | |
| 2.48 | 1.77 | 3.9 | | |
| 2.13 | -3.01 | -0.66 | | |
| 1.96 | 0 | 2.47 | | |
| 1.96 | -3.01 | -0.54 | | |
| 1.83 | -3.01 | -0.44 | | |
| 1.58 | 0.08 | 2.86 | | |
| 1.57 | 0.23 | 3.02 | | |
| 1.53 | -2.96 | -0.13 | | |
| 1.52 | -3.52 | -0.69 | | |
| 1.5 | 2.78 | 5.64 | | |
| 1.38 | -3.58 | -0.61 | | |
| 1.37 | 3.97 | 6.95 | | |
| 1.26 | 0.32 | 3.42 | | |
| 1.18 | -2.64 | 0.57 | | |
| -1.04 | -3.52 | -0.03 | | |
| -1.04 | -3.66 | -0.15 | | |
| -1.06 | -0.14 | 3.39 | | |
| -1.1 | 4.53 | 8.11 | | |
| -1.18 | 1.99 | 5.67 | | |
| -1.25 | 2.18 | 5.94 | | |
| -1.37 | -2.04 | 1.86 | | |
| 6.61 | -3.04 | -5.45 | | |
| -1.8 | -5.37 | -4.22 | | |
| -1.57 | -0.37 | -2.78 | | |
| -2.41 | 0.18 | -1.6 | | |
| -2.61 | -1.83 | -3.5 | | |
| -2.74 | -1.1 | -2.71 | | |
| -3.13 | 2.37 | 0.97 | | |
| -3.36 | -1.84 | -3.15 | | |
| 15.91 | 2.33 | -0.08 | | |
| 14.69 | -0.63 | -2.91 | | |
| 8.72 | 0.61 | -0.92 | | |
| 1.46 | 0.18 | 1.22 | | |
| 1.18 | 0.07 | 1.42 | | |
| 1.18 | 0.26 | 1.61 | | |
| 1.21 | 1.76 | -0.64 | | |
| -1.2 | 1.32 | -0.56 | | |
| -1.55 | -1.88 | -3.38 | | |
| 6.54 | 1.15 | -1.25 | | |
| 3.22 | 4.79 | 3.41 | | |
| 3.04 | 1.99 | 0.69 | | |
| 2.97 | 2.39 | 1.13 | | |
| 2.65 | 0.22 | -0.88 | | |
| 2.51 | 1.26 | 0.23 | | |
| -1.65 | 1.3 | 2.33 | | |
| -1.79 | -1.41 | -0.27 | | |
| -1.82 | -0.46 | 0.71 | | |
| -1.85 | -2.48 | -1.29 | | |
| -2.06 | 1.06 | 2.41 | | |
| -2.32 | -1.02 | 0.5 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.38 | -3.86 | -2.3 | | |
| -4.69 | -3.47 | -0.94 | | |
| 6.54 | 1.15 | -1.25 | | |
| 3.22 | 4.79 | 3.41 | | |
| 3.04 | 1.99 | 0.69 | | |
| 2.97 | 2.39 | 1.13 | | |
| 2.65 | 0.22 | -0.88 | | |
| 2.51 | 1.26 | 0.23 | | |
| -1.65 | 1.3 | 2.33 | | |
| -1.79 | -1.41 | -0.27 | | |
| -1.82 | -0.46 | 0.71 | | |
| -1.85 | -2.48 | -1.29 | | |
| -2.06 | 1.06 | 2.41 | | |
| -2.32 | -1.02 | 0.5 | | |
| -2.38 | -3.86 | -2.3 | | |
| -4.69 | -3.47 | -0.94 | | |
| 6.54 | 1.15 | -1.25 | | |
| 3.22 | 4.79 | 3.41 | | |
| 3.04 | 1.99 | 0.69 | | |
| 2.97 | 2.39 | 1.13 | | |
| 2.65 | 0.22 | -0.88 | | |
| 2.51 | 1.26 | 0.23 | | |
| -1.65 | 1.3 | 2.33 | | |
| -1.79 | -1.41 | -0.27 | | |
| -1.82 | -0.46 | 0.71 | | |
| -1.85 | -2.48 | -1.29 | | |
| -2.06 | 1.06 | 2.41 | | |
| -2.32 | -1.02 | 0.5 | | |
| -2.38 | -3.86 | -2.3 | | |
| -4.69 | -3.47 | -0.94 | | |
| 6.54 | 1.15 | -1.25 | | |
| 3.22 | 4.79 | 3.41 | | |
| 3.04 | 1.99 | 0.69 | | |
| 2.97 | 2.39 | 1.13 | | |
| 2.65 | 0.22 | -0.88 | | |
| 2.51 | 1.26 | 0.23 | | |
| -1.65 | 1.3 | 2.33 | | |
| -1.79 | -1.41 | -0.27 | | |
| -1.82 | -0.46 | 0.71 | | |
| -1.85 | -2.48 | -1.29 | | |
| -2.06 | 1.06 | 2.41 | | |
| -2.32 | -1.02 | 0.5 | | |
| -2.38 | -3.86 | -2.3 | | |
| -4.69 | -3.47 | -0.94 | | |
| 2.83 | -1.31 | -3.71 | | |
| 2.52 | -1.31 | -3.54 | | |
| 1.95 | 1.44 | -0.42 | | |
| 1.63 | -0.01 | -1.61 | | |
| 1.52 | -0.45 | -1.95 | | |
| 1.5 | -0.89 | -2.37 | | |
| 1.34 | -1.75 | -3.07 | | |
| 1.33 | -0.59 | -1.9 | | |
| 1.28 | 5.11 | 3.86 | | |
| 1.28 | 4.83 | 3.57 | | |
| 1.27 | -0.21 | -1.45 | | |
| 1.23 | -0.48 | -1.67 | | |
| 1.13 | -0.01 | -1.08 | | |
| 1.12 | -2.38 | -3.44 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.11 | -0.62 | -1.67 | | |
| 1.1 | 0.18 | -0.86 | | |
| -5.18 | -3.33 | -1.86 | | |
| -6.03 | -2.63 | -0.94 | | |
| 1.19 | 1.69 | -0.71 | | |
| 1.16 | -2.77 | -5.13 | | |
| 1.16 | -1.1 | -3.45 | | |
| -1.12 | -2.27 | -4.26 | | |
| -1.13 | 1.11 | -0.85 | | |
| -1.2 | -2.18 | -4.06 | | |
| -1.27 | -2.87 | -4.67 | | |
| -1.3 | -0.03 | -1.8 | | |
| -1.49 | 3.41 | 1.84 | | |
| -1.51 | -2.13 | -3.68 | | |
| -1.52 | -2.3 | -3.84 | | |
| -1.56 | -3.32 | -4.82 | | |
| -1.56 | -2.18 | -3.68 | | |
| -1.64 | -1.39 | -2.82 | | |
| -1.69 | -1.92 | -3.31 | | |
| -1.82 | 3.95 | 2.67 | | |
| -1.99 | 0.01 | -1.14 | | |
| -2.02 | -2.69 | -3.82 | | |
| -2.09 | 2.27 | 1.19 | | |
| 2.53 | -4.7 | -7.1 | | |
| 1.14 | -1.27 | -2.52 | | |
| 1.12 | -4.19 | -5.42 | | |
| 1.11 | -0.36 | -1.57 | | |
| 1.04 | -5.79 | -6.9 | | |
| 1.04 | -1.96 | -3.07 | | |
| 1.01 | -0.08 | -1.16 | | |
| -1.01 | -0.78 | -1.83 | | |
| -4.63 | -3.36 | -2.21 | | |
| 3.48 | 2.52 | 0.12 | | |
| 1.68 | -0.18 | -1.52 | | |
| -3.11 | -2.77 | -1.74 | | |
| -4.49 | -5.31 | -3.74 | | |
| 2.48 | 3.15 | 0.75 | | |
| 2.27 | 3.15 | 0.88 | | |
| 1.29 | -1.21 | -2.66 | | |
| 1.2 | 2.74 | 1.39 | | |
| 1.07 | 0.76 | -0.42 | | |
| -4.42 | -3.3 | -2.25 | | |
| 2 | -2.93 | -5.33 | | |
| 1.34 | -0.14 | -1.96 | | |
| -1.02 | -0.52 | -1.9 | | |
| -1.15 | -0.1 | -1.3 | | |
| -1.26 | -3.3 | -4.37 | | |
| -1.28 | -0.95 | -1.99 | | |
| 1.23 | 3.96 | 1.56 | | |
| 1.2 | 1.89 | -0.47 | | |
| 1.13 | 3.56 | 1.27 | | |
| -1.03 | 2.46 | 0.4 | | |
| -1.22 | 2.38 | 0.56 | | |
| -1.7 | -1.73 | -3.07 | | |
| -8.8 | -1.86 | -0.82 | | |
| -13.48 | -0.84 | 0.81 | | |
| 2.25 | -1.25 | -3.65 | | |
| 1.57 | -2.83 | -4.71 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.51 | 2.92 | 1.1 | | |
| 1.33 | 1.86 | 0.23 | | |
| 1.2 | 5.31 | 3.82 | | |
| 1.2 | 1.18 | -0.31 | | |
| 1.14 | -3.01 | -4.42 | | |
| 1.13 | -0.94 | -2.34 | | |
| 1.1 | -1.41 | -2.76 | | |
| 1.07 | -3.84 | -5.16 | | |
| 1.04 | 3.35 | 2.07 | | |
| 1.02 | 1.01 | -0.25 | | |
| 1 | -2.78 | -4.01 | | |
| -1.03 | -0.04 | -1.23 | | |
| -1.08 | 0.74 | -0.38 | | |
| -1.08 | 3.28 | 2.16 | | |
| -1.12 | -0.83 | -1.9 | | |
| -1.15 | -3.56 | -4.59 | | |
| -1.16 | -0.99 | -2 | | |
| -5.13 | -2.83 | -1.69 | | |
| -5.14 | -1.27 | -0.13 | | |
| -12.5 | -4.37 | -1.95 | | |
| -20.94 | -3.35 | -0.18 | | |
| 9.96 | 1.23 | -1.17 | | |
| 7 | -0.94 | -2.83 | | |
| 6.64 | 1.68 | -0.13 | | |
| 5.24 | -2.02 | -3.49 | | |
| 3.99 | -2.4 | -3.47 | | |
| 1.13 | 2.61 | 0.22 | | |
| 1.1 | -3.19 | -5.54 | | |
| -1.12 | -4.44 | -6.49 | | |
| -1.35 | -1.21 | -2.98 | | |
| -1.54 | -1.91 | -3.5 | | |
| -1.73 | 1.49 | 0.07 | | |
| -2.1 | -4.52 | -5.66 | | |
| -2.16 | -1.92 | -3.02 | | |
| 1.68 | -0.34 | -2.74 | | |
| 1.35 | -0.29 | -2.37 | | |
| -1.06 | -0.63 | -2.19 | | |
| -1.15 | -1.15 | -2.6 | | |
| -1.19 | 4.86 | 3.46 | | |
| -1.3 | 1.85 | 0.58 | | |
| -1.5 | 1.69 | 0.63 | | |
| -1.51 | -2.48 | -3.53 | | |
| -6.53 | -1.69 | -0.63 | | |
| -8.07 | -2.14 | -0.78 | | |
| 2.6 | 1.38 | -1.01 | | |
| 1.78 | 4.01 | 2.17 | | |
| 1.71 | 0.4 | -1.39 | | |
| 1.3 | -0.04 | -1.42 | | |
| 1.27 | 1.5 | 0.15 | | |
| 1.24 | 3.56 | 2.24 | | |
| 1.12 | 5.04 | 3.86 | | |
| 1.11 | 1.89 | 0.73 | | |
| 1.08 | 0.65 | -0.47 | | |
| 1.06 | 5.33 | 4.22 | | |
| 1.02 | 4.32 | 3.28 | | |
| 1.01 | -0.39 | -1.42 | | |
| -4.48 | -1.29 | -0.14 | | |
| -4.61 | -0.91 | 0.28 | | |

| | | | | |
|--------|-------|-------|--|--|
| -4.69 | 0.08 | 1.3 | | |
| -7.62 | -2.25 | -0.33 | | |
| 9.68 | 1.34 | -1.05 | | |
| 5.89 | 3.18 | 1.51 | | |
| 4.81 | -0.97 | -2.35 | | |
| 4.65 | -1.11 | -2.44 | | |
| 4.38 | 2.61 | 1.36 | | |
| 3.69 | 1.13 | 0.13 | | |
| 3.28 | 0.43 | -1.95 | | |
| 2.68 | -0.76 | -2.85 | | |
| 2.47 | 0.92 | -1.05 | | |
| 1.51 | -0.1 | -1.37 | | |
| 1.48 | 3 | 1.77 | | |
| 1.38 | -0.53 | -1.67 | | |
| 1.29 | 3.03 | 1.99 | | |
| 1.27 | 3.47 | 2.46 | | |
| 3.09 | -0.52 | -2.91 | | |
| 1.44 | 0.12 | -1.16 | | |
| 1.32 | -1.07 | -2.22 | | |
| 1.28 | -1.72 | -2.83 | | |
| 1.24 | -1.26 | -2.33 | | |
| 1.18 | -1.35 | -2.35 | | |
| 28.3 | 1.11 | -1.27 | | |
| 19.77 | 1.44 | -0.43 | | |
| 2.52 | 0.63 | 1.74 | | |
| 2.14 | -1.9 | -0.55 | | |
| 1.61 | -0.37 | 1.38 | | |
| 1.12 | 0.05 | 2.32 | | |
| -1.03 | 3.21 | 5.69 | | |
| -1.18 | 0.07 | 2.76 | | |
| -1.34 | -1.97 | 0.9 | | |
| 228.19 | 0.89 | -1.49 | | |
| 122.64 | 0.04 | -1.45 | | |
| 121.35 | 0.84 | -0.64 | | |
| 105.2 | -0.15 | -1.42 | | |
| 105.51 | -0.71 | -1.98 | | |
| 92.94 | 1.05 | -0.04 | | |
| 17.85 | -1.82 | -0.53 | | |
| 17.64 | -3.47 | -2.16 | | |
| 15.74 | 0.04 | 1.51 | | |
| 15.33 | -0.55 | 0.96 | | |
| 15.29 | -1.57 | -0.06 | | |
| 11.65 | -3.05 | -1.15 | | |
| 11.48 | -2.46 | -0.53 | | |
| 11.45 | -1.91 | 0.03 | | |
| 11.4 | -3.85 | -1.91 | | |
| 8.74 | -2.44 | -0.12 | | |
| 7.61 | -2.36 | 0.16 | | |
| 6.86 | -3.93 | -1.26 | | |
| 6.77 | -1.01 | 1.68 | | |
| 6.53 | -3.86 | -1.12 | | |
| 5.85 | -5.01 | -2.11 | | |
| 3.29 | 0.39 | 4.12 | | |
| 2.65 | -0.65 | 3.4 | | |
| 2.17 | -1.92 | 2.41 | | |
| 1.95 | -2.2 | 2.28 | | |
| 1.81 | -3.65 | 0.95 | | |
| 1.59 | -6.96 | -2.18 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.37 | 2.03 | -0.35 | | |
| 1.59 | 2.7 | 0.9 | | |
| 1.44 | 3.64 | 1.99 | | |
| 1.21 | 1.38 | -0.02 | | |
| 1.21 | -0.79 | -2.2 | | |
| 1.18 | 0.17 | -1.2 | | |
| 1.16 | 1.08 | -0.27 | | |
| 1.11 | -0.43 | -1.71 | | |
| 1.1 | 1.92 | 0.64 | | |
| 1.03 | -0.74 | -1.92 | | |
| -1.03 | 2.16 | 1.07 | | |
| -5.56 | 0.85 | 2.19 | | |
| -10.22 | 0.14 | 2.36 | | |
| -11.58 | -0.37 | 2.03 | | |
| -22.66 | -0.78 | 2.58 | | |
| -23.46 | -2.68 | 0.74 | | |
| 4.76 | -1.02 | -3.4 | | |
| 2.49 | -1.99 | -3.43 | | |
| 2.14 | 2.32 | 1.09 | | |
| 1.86 | 3.03 | 2.01 | | |
| 1.86 | -0.71 | -1.74 | | |
| 14.61 | -3.55 | -5.94 | | |
| 9.63 | -2.97 | -4.75 | | |
| 8.69 | -4.19 | -5.82 | | |
| 8.01 | -2.81 | -4.33 | | |
| 7.87 | -2.17 | -3.66 | | |
| 7.53 | -2.91 | -4.33 | | |
| 7.46 | -3.15 | -4.56 | | |
| 7.26 | -1.69 | -3.06 | | |
| 5.99 | -1.79 | -2.89 | | |
| 5.8 | -2.93 | -3.98 | | |
| 5.78 | -3.5 | -4.54 | | |
| 5.68 | -2.41 | -3.43 | | |
| 1.4 | 1.18 | 2.18 | | |
| 1.39 | 1.57 | 2.58 | | |
| 1.38 | 1.39 | 2.42 | | |
| 1.33 | 0.93 | 2 | | |
| 1.3 | 1.53 | 2.64 | | |
| 1.27 | 0.73 | 1.87 | | |
| 1.24 | 1.29 | 2.46 | | |
| 1.23 | 1.34 | 2.53 | | |
| 1.18 | 1.41 | 2.66 | | |
| 1.17 | 1.02 | 2.27 | | |
| 1.17 | 1.35 | 2.62 | | |
| 1.03 | 0.95 | 2.39 | | |
| 1.02 | -5.13 | -3.67 | | |
| 2.17 | -1.52 | -3.9 | | |
| 1.53 | -1.56 | -3.44 | | |
| 1.29 | -2.89 | -4.51 | | |
| 1.1 | -1.54 | -2.95 | | |
| 1.03 | -0.85 | -2.16 | | |
| 1.02 | 4 | 2.72 | | |
| -1.15 | 0.34 | -0.72 | | |
| 2.53 | -1.08 | -3.45 | | |
| 1.32 | 1.17 | -0.27 | | |
| 1.27 | -2.61 | -3.99 | | |
| 1.25 | -2.01 | -3.37 | | |
| 1.13 | -0.02 | -1.23 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.05 | -0.34 | -1.45 | | |
| 1 | -2.13 | -3.17 | | |
| -1 | 0.54 | -0.49 | | |
| -1 | 0.8 | -0.23 | | |
| -1.03 | -1.45 | -2.45 | | |
| 4.88 | -3.08 | -5.46 | | |
| 2.32 | -0.85 | -2.16 | | |
| 2.02 | -0.22 | -1.33 | | |
| 2.02 | -0.36 | -1.46 | | |
| 2.02 | -0.36 | -1.46 | | |
| 1.97 | 0.02 | -1.05 | | |
| 1.97 | 0.02 | -1.05 | | |
| 1.93 | -0.06 | -1.1 | | |
| 2.02 | -4.93 | -7.31 | | |
| 1.66 | -2.66 | -4.75 | | |
| 1.59 | -3.47 | -5.51 | | |
| 1.51 | -0.22 | -2.18 | | |
| 1.51 | -2.87 | -4.82 | | |
| 1.42 | -3.42 | -5.28 | | |
| 1.39 | -4.14 | -5.98 | | |
| 1.39 | -4.04 | -5.88 | | |
| 1.33 | -2.4 | -4.17 | | |
| 1.3 | -2.68 | -4.42 | | |
| 1.18 | -4.41 | -6.01 | | |
| 1.17 | -5.17 | -6.75 | | |
| 1.13 | -1.31 | -2.85 | | |
| 1.12 | -2.1 | -3.63 | | |
| 1.09 | -4.46 | -5.95 | | |
| 1.04 | -4.76 | -6.18 | | |
| -1.03 | -1.1 | -2.41 | | |
| -1.04 | -3.03 | -4.33 | | |
| -1.05 | -1.93 | -3.22 | | |
| -1.09 | -5.25 | -6.49 | | |
| -1.13 | -0.18 | -1.38 | | |
| -1.14 | -2.04 | -3.21 | | |
| -1.15 | -3 | -4.16 | | |
| -1.17 | 1.48 | 0.34 | | |
| -1.18 | -5.31 | -6.43 | | |
| -1.2 | -3.19 | -4.29 | | |
| -1.23 | -4.83 | -5.9 | | |
| -1.23 | -5.56 | -6.63 | | |
| -1.24 | -4.25 | -5.3 | | |
| -1.27 | -4.96 | -5.98 | | |
| -1.28 | -4.59 | -5.59 | | |
| -10.33 | -4.33 | -2.32 | | |
| 37.33 | -1.98 | -4.36 | | |
| 3.56 | -3.77 | -2.75 | | |
| 3.28 | -3.87 | -2.73 | | |
| 3.28 | -4.33 | -3.2 | | |
| 2.93 | -4.7 | -3.4 | | |
| 2.87 | -2.45 | -1.12 | | |
| 2.16 | -3.06 | -1.33 | | |
| 1.98 | -4.68 | -2.82 | | |
| 1.79 | -3.71 | -1.7 | | |
| 1.78 | -3.06 | -1.04 | | |
| 1.73 | -3.61 | -1.56 | | |
| 1.65 | -2.94 | -0.81 | | |
| 1.51 | -6.04 | -3.79 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.37 | -5.81 | -3.42 | | |
| 1.27 | -7.1 | -4.61 | | |
| 1.07 | -7.49 | -4.74 | | |
| -1.02 | -7.35 | -4.47 | | |
| 7.33 | 3.54 | 1.17 | | |
| 7.16 | 2.45 | 0.11 | | |
| 6.12 | 5.65 | 3.54 | | |
| 5.37 | 3.96 | 2.03 | | |
| 5.23 | 2.21 | 0.33 | | |
| 4.89 | 0.94 | -0.84 | | |
| 4.84 | 4.17 | 2.4 | | |
| 4.37 | 2.28 | 0.65 | | |
| 4.23 | 1.88 | 0.3 | | |
| 3.75 | 3.21 | 1.81 | | |
| 3.48 | 1.71 | 0.41 | | |
| 3.35 | 2.37 | 1.13 | | |
| 3.23 | 3.05 | 1.86 | | |
| 2.94 | 4.84 | 3.78 | | |
| 2.94 | 1.15 | 0.1 | | |
| 2.92 | 4.11 | 3.07 | | |
| -1.69 | 3.71 | 4.98 | | |
| -2.89 | -0.22 | 1.81 | | |
| 2.78 | -2 | -4.37 | | |
| 1.36 | -0.32 | -1.66 | | |
| 1.19 | 0.3 | -0.84 | | |
| 1.12 | 0.31 | -0.74 | | |
| 1.11 | -0.74 | -1.78 | | |
| 3.74 | -3.42 | -5.79 | | |
| -2.85 | -3.91 | -2.87 | | |
| 5.56 | 5.86 | 3.5 | | |
| 3.83 | 3.4 | 1.57 | | |
| 3.58 | 0.49 | -1.24 | | |
| 2 | 0.89 | -1.48 | | |
| 1.73 | 0.18 | -1.97 | | |
| 1.39 | 0.84 | -0.99 | | |
| 1.32 | 0.82 | -0.94 | | |
| 1.28 | 1.08 | -0.64 | | |
| 1.21 | 1.64 | 0 | | |
| 1.19 | -0.16 | -1.78 | | |
| 1.13 | 2.2 | 0.65 | | |
| 1.1 | 1.57 | 0.07 | | |
| 1.03 | 0.53 | -0.87 | | |
| 1 | -1.66 | -3.03 | | |
| 1 | 2.17 | 0.8 | | |
| -1.09 | -1.88 | -3.12 | | |
| -6.56 | -2.45 | -1.1 | | |
| 2.64 | -0.31 | -2.68 | | |
| 1.26 | 0.31 | -1 | | |
| 1.26 | 2.45 | 1.15 | | |
| 1.19 | -2.19 | -3.41 | | |
| 1.19 | 1.31 | 0.08 | | |
| 1.14 | -1.93 | -3.08 | | |
| 1.14 | 2.17 | 1.02 | | |
| 1.08 | 2.74 | 1.66 | | |
| 4.54 | -4.35 | -6.71 | | |
| 2.16 | -3.69 | -4.98 | | |
| 1.77 | -0.57 | -1.58 | | |
| 1.31 | -0.6 | -2.96 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.14 | -3.15 | -5.3 | | |
| -1.27 | 0.03 | -1.6 | | |
| -1.39 | -1.83 | -3.32 | | |
| -1.53 | 1.96 | 0.6 | | |
| 1.36 | 1.79 | -0.57 | | |
| 1.23 | 0.78 | -1.43 | | |
| 1.07 | -3.73 | -5.74 | | |
| -1.12 | -1.56 | -3.32 | | |
| -1.21 | -3.1 | -4.74 | | |
| 4.02 | 3.97 | 1.61 | | |
| 1.72 | -0.68 | -1.82 | | |
| 1.67 | -1.39 | -2.48 | | |
| 1.64 | -0.77 | -1.83 | | |
| -2.57 | -1.82 | -0.81 | | |
| -2.74 | -4.37 | -3.26 | | |
| -1.3 | -3.55 | -5.91 | | |
| -1.9 | 2.86 | 1.04 | | |
| 3.27 | -0.74 | -3.09 | | |
| 2.15 | 2.79 | 1.05 | | |
| 1.79 | -0.71 | -2.19 | | |
| 1.69 | -0.56 | -1.96 | | |
| 1.55 | 2.12 | 0.84 | | |
| 1.54 | 0.23 | -1.04 | | |
| 1.49 | -1.57 | -2.78 | | |
| 1.38 | -0.55 | -1.66 | | |
| 1.38 | -1.01 | -2.12 | | |
| 1.31 | 0.02 | -1.01 | | |
| 1.3 | -1.85 | -2.87 | | |
| -3.25 | 1.03 | 2.08 | | |
| -3.82 | -1.29 | 0 | | |
| -4.01 | -1.28 | 0.08 | | |
| -4.19 | -1.7 | -0.28 | | |
| 5.46 | 4.19 | 1.83 | | |
| 4.01 | 0.95 | -0.95 | | |
| 1.33 | -1.02 | -3.37 | | |
| 1.21 | 0.75 | -1.45 | | |
| 1.05 | -4.11 | -6.11 | | |
| -1.04 | -3.68 | -5.57 | | |
| -1.15 | -3.8 | -5.54 | | |
| -1.3 | -1.46 | -3.02 | | |
| -1.45 | -3.03 | -4.44 | | |
| -1.6 | -0.25 | -1.51 | | |
| -1.76 | -2.22 | -3.34 | | |
| -1.92 | 1.43 | 0.43 | | |
| -7.64 | -0.99 | 0 | | |
| -7.82 | -0.82 | 0.21 | | |
| -7.95 | -0.03 | 1.03 | | |
| -10.09 | -0.01 | 1.39 | | |
| 5.02 | -2.65 | -5 | | |
| -2.11 | -2.98 | -1.92 | | |
| -2.17 | -0.3 | 0.8 | | |
| -2.51 | -2.62 | -1.32 | | |
| 2.88 | 3.26 | 0.91 | | |
| 1.46 | 3.03 | 1.66 | | |
| 1.32 | 0.03 | -1.2 | | |
| 1.26 | 0.56 | -0.59 | | |
| 1.23 | 2.57 | 1.44 | | |
| 1.22 | 2.12 | 1 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.18 | -1.68 | -2.75 | | |
| 1.15 | 3.79 | 2.76 | | |
| -3.89 | -0.35 | 0.78 | | |
| -3.99 | -1.57 | -0.4 | | |
| -4.2 | -2.03 | -0.78 | | |
| -4.22 | -0.36 | 0.89 | | |
| -4.32 | -2.27 | -0.98 | | |
| -4.45 | -0.61 | 0.71 | | |
| -4.44 | -1.47 | -0.14 | | |
| -4.91 | -2.69 | -1.22 | | |
| -5.04 | 1.23 | 2.74 | | |
| -5.46 | -1.36 | 0.26 | | |
| -5.49 | -0.53 | 1.1 | | |
| -5.68 | -2.36 | -0.68 | | |
| -5.91 | -2.64 | -0.9 | | |
| -7.73 | -1.11 | 1.02 | | |
| -9.48 | -3.03 | -0.61 | | |
| -10.77 | -1.99 | 0.62 | | |
| 5.9 | 0.98 | -1.37 | | |
| -1.73 | -1.33 | -0.32 | | |
| -3.07 | -3.99 | -2.16 | | |
| 1.44 | 4.8 | 2.46 | | |
| 1.28 | 2.79 | 0.61 | | |
| 1.04 | 3.52 | 1.64 | | |
| -1.08 | 5.61 | 3.9 | | |
| -1.34 | 1.45 | 0.05 | | |
| -7.28 | -1.32 | -0.28 | | |
| -7.64 | -0.88 | 0.23 | | |
| -8.02 | -0.58 | 0.6 | | |
| 2.69 | -0.37 | -2.72 | | |
| 1.17 | 3.96 | 2.81 | | |
| 1.14 | 1.75 | 0.65 | | |
| 31.14 | 0.37 | -1.98 | | |
| 21.1 | -0.28 | -2.07 | | |
| 16.13 | -0.35 | -1.75 | | |
| 15.62 | -1 | -2.35 | | |
| 14.95 | -0.97 | -2.26 | | |
| 12.25 | 0.65 | -0.36 | | |
| 2.9 | -0.2 | 0.88 | | |
| 2.88 | -1.42 | -0.33 | | |
| 2.81 | -3.88 | -2.76 | | |
| 2.73 | -4.07 | -2.9 | | |
| 2.72 | -0.91 | 0.26 | | |
| 2.49 | -2.79 | -1.5 | | |
| 2.38 | -3.67 | -2.31 | | |
| 2.13 | -2.64 | -1.12 | | |
| 1.95 | 1.18 | 2.83 | | |
| 1.89 | 1.61 | 3.3 | | |
| 1.76 | -1.84 | -0.04 | | |
| 1.69 | -0.32 | 1.54 | | |
| 1.6 | -0.89 | 1.05 | | |
| 1.59 | -4.68 | -2.74 | | |
| 1.55 | -2.96 | -0.98 | | |
| 1.46 | -2.24 | -0.18 | | |
| 1.45 | -1.95 | 0.13 | | |
| 1.33 | 0.52 | 2.72 | | |
| 1.3 | -2.41 | -0.18 | | |
| 1.09 | -4.56 | -2.07 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.09 | -5.2 | -2.71 | | |
| -1.03 | 5.64 | 8.29 | | |
| -1.12 | -0.33 | 2.44 | | |
| -1.31 | -1.65 | 1.35 | | |
| -1.36 | -4.83 | -1.78 | | |
| 3.26 | -2.92 | -5.27 | | |
| 1.58 | -3.49 | -4.78 | | |
| 1.3 | 0.66 | -0.36 | | |
| 3.66 | 0.65 | -1.69 | | |
| 3.08 | -1.65 | -3.74 | | |
| 1.53 | -0.37 | -1.46 | | |
| -3.5 | -3.26 | -1.92 | | |
| -4.01 | -1.57 | -0.03 | | |
| -4.01 | -2.96 | -1.43 | | |
| -4.13 | -1.57 | 0.01 | | |
| -4.32 | -2.44 | -0.8 | | |
| 66.72 | -0.15 | -2.48 | | |
| 32.57 | 0.37 | -0.93 | | |
| 5.5 | -2.34 | -1.08 | | |
| 3.93 | -2.07 | -0.32 | | |
| 3.72 | -2.26 | -0.43 | | |
| 2.98 | -3.31 | -1.16 | | |
| 1.05 | -3.43 | 0.22 | | |
| 1.14 | -1.02 | -3.36 | | |
| 1 | 5.67 | 3.53 | | |
| -1.41 | -4.16 | -5.81 | | |
| -1.54 | -4.45 | -5.96 | | |
| -10.83 | -2.32 | -1.02 | | |
| 5.12 | 4.26 | 1.92 | | |
| 3.87 | 3.27 | 1.34 | | |
| 2.62 | -0.76 | -2.13 | | |
| 2.03 | 0.19 | -0.82 | | |
| -3.42 | -1.94 | -0.15 | | |
| 15.53 | -1.86 | -4.19 | | |
| 12.91 | -0.92 | -2.98 | | |
| 9.1 | -1.62 | -3.18 | | |
| 8.85 | -2.39 | -3.91 | | |
| 7.57 | 1.02 | -0.28 | | |
| 7.22 | 0.34 | -0.89 | | |
| 6.32 | -3.64 | -4.68 | | |
| 6.2 | 1.58 | 0.57 | | |
| 1.45 | 2.45 | 3.54 | | |
| 1.17 | 2.59 | 3.99 | | |
| -1.32 | 2.91 | 4.94 | | |
| 16.37 | -0.98 | -3.31 | | |
| 8.13 | -0.54 | -1.87 | | |
| 7.43 | 2.43 | 1.24 | | |
| 6.92 | 2.02 | 0.93 | | |
| 1.37 | -3.84 | -2.6 | | |
| -1.04 | -3.21 | -1.46 | | |
| -1.09 | -2.72 | -0.9 | | |
| -1.37 | -2.04 | 0.12 | | |
| 1.33 | -1.22 | -3.55 | | |
| 1.31 | -0.76 | -3.07 | | |
| -1.1 | -7.55 | -9.33 | | |
| -1.14 | -2.78 | -4.51 | | |
| -1.75 | -4.11 | -5.22 | | |
| -8.35 | -6.58 | -5.43 | | |

| | | | | |
|--------|-------|-------|--|--|
| -9.76 | -5.92 | -4.54 | | |
| -12.83 | -6.59 | -4.82 | | |
| -13.88 | -6.2 | -4.32 | | |
| 2.97 | 0.01 | -2.32 | | |
| 1.44 | -0.5 | -1.78 | | |
| 1.39 | -1.85 | -3.08 | | |
| 1.33 | -3.94 | -5.1 | | |
| 1.24 | -0.69 | -1.75 | | |
| 1.24 | -0.95 | -2.01 | | |
| 1.22 | 0.78 | -0.26 | | |
| -5.35 | -2.57 | -0.91 | | |
| 2.29 | -2.45 | -4.78 | | |
| 1.88 | -1.37 | -3.42 | | |
| 1.88 | 1.13 | -0.91 | | |
| 1.58 | -3.75 | -5.53 | | |
| 1.53 | -3.76 | -5.5 | | |
| 1.43 | -0.12 | -1.77 | | |
| 1.43 | -3.26 | -4.91 | | |
| 1.33 | 1.5 | -0.04 | | |
| 1.3 | -2 | -3.51 | | |
| 1.27 | -1.28 | -2.75 | | |
| 1.27 | -1.48 | -2.95 | | |
| 1.21 | -1.02 | -2.43 | | |
| 1.19 | -1.65 | -3.03 | | |
| 1.18 | -2.82 | -4.2 | | |
| 1.18 | -1.44 | -2.81 | | |
| 1.13 | -1.3 | -2.61 | | |
| 1.07 | -1.55 | -2.78 | | |
| 1.05 | 0.7 | -0.5 | | |
| 1.04 | -3.69 | -4.89 | | |
| 1.04 | -0.5 | -1.69 | | |
| 1.02 | -3.61 | -4.77 | | |
| 1.02 | -4.03 | -5.19 | | |
| -1 | -0.88 | -2.01 | | |
| -1.01 | 1.41 | 0.3 | | |
| -1.04 | -1.55 | -2.63 | | |
| -1.04 | -0.55 | -1.62 | | |
| -1.05 | -2.06 | -3.11 | | |
| -1.06 | -1.74 | -2.78 | | |
| -1.06 | -3.64 | -4.69 | | |
| -1.06 | 2.19 | 1.14 | | |
| -1.06 | 0.02 | -1.03 | | |
| -1.06 | -2.96 | -4 | | |
| -1.06 | -3.18 | -4.22 | | |
| -1.06 | 1.36 | 0.31 | | |
| -1.07 | -3.19 | -4.22 | | |
| -1.08 | -0.53 | -1.55 | | |
| -1.08 | -3.67 | -4.68 | | |
| -1.08 | -4.03 | -5.05 | | |
| -1.08 | -2.95 | -3.97 | | |
| -1.08 | 0.68 | -0.34 | | |
| -1.09 | -0.63 | -1.64 | | |
| -1.09 | -0.49 | -1.5 | | |
| -1.09 | -1.8 | -2.8 | | |
| -4.37 | -0.79 | 0.2 | | |
| -4.4 | -1.05 | -0.04 | | |
| -4.42 | -1.61 | -0.6 | | |
| -4.47 | -1.37 | -0.34 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.49 | -2.48 | -1.44 | | |
| -4.54 | 0.59 | 1.64 | | |
| -4.6 | -2.73 | -1.66 | | |
| -4.75 | -2.3 | -1.18 | | |
| -4.76 | -0.73 | 0.39 | | |
| -4.74 | -1.75 | -0.63 | | |
| -4.97 | -0.47 | 0.71 | | |
| -5.01 | -2.04 | -0.84 | | |
| -5.06 | -0.68 | 0.52 | | |
| -5.13 | -3.61 | -2.38 | | |
| -5.52 | 0.17 | 1.5 | | |
| -5.62 | 0 | 1.36 | | |
| -6.58 | -4.39 | -2.8 | | |
| -6.61 | -0.62 | 0.98 | | |
| -6.65 | -3.96 | -2.36 | | |
| -7.3 | -4.88 | -3.14 | | |
| -9.54 | -3.56 | -1.44 | | |
| 2.97 | 0.25 | -2.06 | | |
| 1.42 | -0.51 | -1.77 | | |
| 1.36 | -3.4 | -4.59 | | |
| 3.42 | -2.92 | -5.23 | | |
| 2.48 | -2.46 | -4.31 | | |
| 1.9 | -2.97 | -4.44 | | |
| 1.64 | 1.05 | -0.21 | | |
| 1.43 | -0.11 | -1.16 | | |
| 1.42 | -0.7 | -1.75 | | |
| 1.39 | -1.2 | -2.21 | | |
| -3.02 | -0.03 | 1.02 | | |
| -3.03 | 0.6 | 1.66 | | |
| -3.18 | -0.87 | 0.25 | | |
| -3.62 | -1.26 | 0.06 | | |
| -6.79 | -3.78 | -1.55 | | |
| 4.12 | -2.32 | -4.64 | | |
| 2.47 | 2.96 | 1.38 | | |
| 2.05 | -2.78 | -4.09 | | |
| 3.42 | -2.92 | -5.23 | | |
| 2.48 | -2.46 | -4.31 | | |
| 1.9 | -2.97 | -4.44 | | |
| 1.64 | 1.05 | -0.21 | | |
| 1.43 | -0.11 | -1.16 | | |
| 1.42 | -0.7 | -1.75 | | |
| 1.39 | -1.2 | -2.21 | | |
| -3.03 | 0.6 | 1.66 | | |
| -3.18 | -0.87 | 0.25 | | |
| -3.81 | -1.25 | 0.13 | | |
| -6.79 | -3.78 | -1.55 | | |
| 3.32 | 1.42 | -0.9 | | |
| 1.97 | 0.14 | -1.43 | | |
| 1.46 | 0.19 | -0.95 | | |
| 1.33 | -0.74 | -1.74 | | |
| 3.11 | -0.79 | -3.11 | | |
| 1.77 | -4.18 | -5.68 | | |
| 1.63 | -4.25 | -5.64 | | |
| 2.1 | 0.04 | -2.27 | | |
| 1.77 | -1.41 | -3.48 | | |
| 1.68 | -1.03 | -3.02 | | |
| 1.67 | -0.23 | -2.21 | | |
| 1.52 | -1 | -2.85 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.44 | -1.02 | -2.79 | | |
| 1.35 | -1.51 | -3.19 | | |
| 1.34 | -1.46 | -3.12 | | |
| 1.34 | -1.8 | -3.47 | | |
| 1.29 | -1.52 | -3.13 | | |
| 1.27 | -1.64 | -3.23 | | |
| 1.25 | 5.09 | 3.53 | | |
| 1.24 | -1.47 | -3.02 | | |
| 1.24 | -1 | -2.55 | | |
| 1.21 | -0.12 | -1.64 | | |
| 1.21 | -1.26 | -2.78 | | |
| 1.2 | -1.08 | -2.59 | | |
| 1.19 | -0.93 | -2.43 | | |
| 1.19 | -1.7 | -3.2 | | |
| 1.14 | -0.92 | -2.35 | | |
| 1.12 | -0.87 | -2.28 | | |
| 1.11 | -1.17 | -2.57 | | |
| 1.1 | -0.29 | -1.67 | | |
| 1.08 | 2.1 | 0.74 | | |
| 1.06 | -1.75 | -3.07 | | |
| 1.04 | -0.5 | -1.79 | | |
| 1.03 | -1.81 | -3.1 | | |
| 1.02 | -1.3 | -2.57 | | |
| 1.01 | -1.75 | -3 | | |
| -1.01 | -1.24 | -2.47 | | |
| -1.02 | -2.08 | -3.3 | | |
| -1.02 | 1.8 | 0.58 | | |
| -1.02 | 1.41 | 0.2 | | |
| -1.03 | 2.18 | 0.97 | | |
| -1.04 | -0.97 | -2.16 | | |
| -1.05 | -2.27 | -3.44 | | |
| -1.06 | 1.77 | 0.61 | | |
| -1.07 | 0.86 | -0.28 | | |
| -1.11 | -0.78 | -1.87 | | |
| -1.13 | -0.67 | -1.74 | | |
| -1.13 | 1.41 | 0.35 | | |
| -1.14 | -2.2 | -3.26 | | |
| -1.14 | 0.08 | -0.98 | | |
| -1.15 | 0.12 | -0.92 | | |
| -1.15 | -0.88 | -1.92 | | |
| -1.17 | -0.86 | -1.87 | | |
| -1.18 | -1.48 | -2.48 | | |
| 2.99 | 0.39 | -1.92 | | |
| 2.81 | -0.23 | -2.45 | | |
| 1.36 | 1.7 | 0.53 | | |
| 1.33 | -0.43 | -1.57 | | |
| 1.32 | -2.29 | -3.43 | | |
| 1.27 | 2.63 | 1.55 | | |
| -3.86 | -1.87 | -0.65 | | |
| 1.37 | -1.47 | -3.78 | | |
| 1.36 | 0.48 | -1.82 | | |
| 1.18 | 1.58 | -0.52 | | |
| -1.06 | -2.81 | -4.58 | | |
| -1.65 | -0.52 | -1.66 | | |
| -7.45 | -4.54 | -3.5 | | |
| -8.77 | -2.96 | -1.69 | | |
| -10.54 | -3.48 | -1.94 | | |
| -13.03 | -3.24 | -1.4 | | |

| | | | | |
|--------|-------|-------|--|--|
| -20.23 | -3.66 | -1.18 | | |
| 2.28 | 1.25 | -1.06 | | |
| 1.72 | 0.76 | -1.14 | | |
| 1.66 | -0.98 | -2.83 | | |
| 1.41 | -2.27 | -3.89 | | |
| 1.36 | 0.26 | -1.31 | | |
| 1.33 | 2.27 | 0.73 | | |
| 1.29 | 0.03 | -1.46 | | |
| 1.23 | -0.39 | -1.82 | | |
| 1.23 | 1.54 | 0.12 | | |
| 1.2 | -0.56 | -1.95 | | |
| 1.15 | -2.63 | -3.96 | | |
| 1.14 | -0.68 | -2 | | |
| 1.04 | 1.89 | 0.71 | | |
| 1.02 | -0.95 | -2.11 | | |
| -1.01 | 0.4 | -0.71 | | |
| -1.07 | -2.24 | -3.27 | | |
| 1.13 | 0.72 | -1.59 | | |
| 1.05 | 2.1 | -0.1 | | |
| 1 | 2.18 | 0.04 | | |
| -1.04 | 2.21 | 0.13 | | |
| -1.05 | 1.72 | -0.34 | | |
| -1.2 | -2.14 | -4.01 | | |
| -1.28 | 2.19 | 0.41 | | |
| -1.34 | -2.1 | -3.81 | | |
| -1.37 | 3.69 | 2.02 | | |
| -1.4 | -1.79 | -3.44 | | |
| -1.6 | 1.57 | 0.12 | | |
| -1.81 | -1.54 | -2.82 | | |
| -1.92 | 1.23 | 0.04 | | |
| -2.08 | -0.32 | -1.4 | | |
| -8.97 | -2.73 | -1.7 | | |
| -9.13 | -1.91 | -0.85 | | |
| -10.18 | -0.56 | 0.65 | | |
| -10.17 | -0.32 | 0.89 | | |
| -10.95 | -0.49 | 0.83 | | |
| -12.07 | -2.72 | -1.26 | | |
| -16.41 | -3.1 | -1.2 | | |
| 3.27 | -0.1 | -2.41 | | |
| 1.63 | 2.55 | 1.24 | | |
| 1.45 | 0.57 | -0.57 | | |
| 1.43 | 1.17 | 0.06 | | |
| 1.33 | -1.7 | -2.71 | | |
| -5.73 | -4.06 | -2.14 | | |
| 2.64 | 0.22 | -2.09 | | |
| 2.35 | 0.88 | -1.26 | | |
| 1.98 | 1.93 | 0.04 | | |
| 1.82 | 1.17 | -0.6 | | |
| 1.36 | -2.97 | -4.33 | | |
| 1.33 | 0.06 | -1.26 | | |
| 1.26 | 1.23 | -0.01 | | |
| 1.26 | 0.06 | -1.18 | | |
| 1.2 | 2.85 | 1.68 | | |
| 1.18 | -2.23 | -3.38 | | |
| 1.13 | -1.63 | -2.71 | | |
| 1.12 | -1.23 | -2.3 | | |
| 1.11 | -0.22 | -1.28 | | |
| 1.1 | -0.11 | -1.15 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.07 | 1.46 | 0.45 | | |
| 1.07 | 1.13 | 0.13 | | |
| 1.07 | -1.29 | -2.29 | | |
| 4.17 | 0.89 | -1.41 | | |
| 2.35 | -0.2 | -1.67 | | |
| 2 | -0.71 | -1.95 | | |
| 1.79 | -0.85 | -1.93 | | |
| 1.77 | 0.25 | -0.82 | | |
| 1.69 | -1.62 | -2.61 | | |
| 19.74 | 1.38 | -0.92 | | |
| 14.93 | 0.19 | -1.7 | | |
| 14.39 | 1.99 | 0.15 | | |
| 1.91 | -1.67 | -0.59 | | |
| 1.3 | 2.54 | 4.17 | | |
| 1.23 | 0.91 | 2.61 | | |
| 1.3 | -1.31 | -3.61 | | |
| -1.01 | 0.49 | -1.41 | | |
| -1.01 | -1.56 | -3.46 | | |
| -1.2 | 0.08 | -1.57 | | |
| -1.31 | -1.41 | -2.94 | | |
| -1.31 | -0.43 | -1.95 | | |
| -1.47 | -3.95 | -5.3 | | |
| -1.87 | -2.82 | -3.83 | | |
| 1.97 | -0.14 | -2.43 | | |
| 1.33 | -1.57 | -3.3 | | |
| 1.29 | -2.83 | -4.52 | | |
| 1.11 | 3.05 | 1.58 | | |
| 1.08 | 1.27 | -0.16 | | |
| -1.03 | -0.19 | -1.47 | | |
| -1.08 | 0.53 | -0.68 | | |
| -1.12 | 2.12 | 0.97 | | |
| -1.14 | 1.07 | -0.07 | | |
| -1.18 | 0.32 | -0.76 | | |
| -1.23 | -1.02 | -2.04 | | |
| -7.62 | -0.15 | 1.46 | | |
| 3.31 | -1.35 | -3.64 | | |
| 2.47 | 2.56 | 0.68 | | |
| 2.22 | -1.07 | -2.8 | | |
| 1.58 | -0.97 | -2.19 | | |
| 1.5 | 2.42 | 1.27 | | |
| 1.5 | 0.31 | -0.84 | | |
| 1.48 | 5.3 | 4.16 | | |
| 1.42 | -0.17 | -1.25 | | |
| 1.38 | 0.49 | -0.54 | | |
| 1.35 | 3.08 | 2.07 | | |
| -3.14 | -3.17 | -2.08 | | |
| -3.18 | -1.73 | -0.63 | | |
| 3.2 | 1.39 | -0.9 | | |
| 2.08 | 1.49 | -0.19 | | |
| 2.05 | 0.95 | -0.7 | | |
| 1.43 | -1.15 | -2.29 | | |
| 1.41 | 0.5 | -0.61 | | |
| 1.37 | -1.89 | -2.95 | | |
| -3.25 | -0.39 | 0.69 | | |
| 1.74 | -0.36 | -2.65 | | |
| 1.34 | 1.26 | -0.65 | | |
| 1.21 | -0.37 | -2.14 | | |
| 1.1 | -0.03 | -1.67 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.09 | 2.09 | 0.47 | | |
| 1.07 | -0.58 | -2.17 | | |
| 1.06 | 1.98 | 0.4 | | |
| 1 | -0.1 | -1.6 | | |
| -1.03 | 2.71 | 1.26 | | |
| -1.04 | 6.09 | 4.66 | | |
| -1.07 | -0.35 | -1.74 | | |
| -1.12 | -1.58 | -2.92 | | |
| -1.13 | -1.67 | -2.99 | | |
| -1.17 | -0.83 | -2.1 | | |
| -1.24 | 0.07 | -1.11 | | |
| -1.27 | -1.33 | -2.48 | | |
| -6.44 | -1.12 | 0.07 | | |
| -12.78 | -1.02 | 1.17 | | |
| 1.23 | 1.11 | -1.19 | | |
| 1.17 | -0.44 | -2.67 | | |
| 1.14 | -0.9 | -3.09 | | |
| 1.06 | 1.62 | -0.46 | | |
| -9.37 | -0.61 | 0.62 | | |
| -13.08 | -0.04 | 1.67 | | |
| -15.49 | -0.61 | 1.35 | | |
| 3.91 | -5.48 | -7.77 | | |
| 1.7 | -4.34 | -5.44 | | |
| -2.72 | -5.54 | -4.43 | | |
| -3.47 | -6.63 | -5.16 | | |
| -4.98 | -7.69 | -5.7 | | |
| 1.69 | -4.83 | -7.12 | | |
| 1.42 | -5.19 | -7.23 | | |
| 1.12 | -6.45 | -8.15 | | |
| -1.18 | -2.86 | -4.16 | | |
| -1.22 | -6.26 | -7.51 | | |
| -7.37 | -5.15 | -3.8 | | |
| 1.86 | -0.24 | -2.53 | | |
| 1.27 | 1.67 | -0.08 | | |
| 1.18 | -1.35 | -2.98 | | |
| 1.03 | 2.28 | 0.84 | | |
| -1.07 | 0.01 | -1.29 | | |
| -1.08 | -1.97 | -3.25 | | |
| -1.19 | -0.5 | -1.65 | | |
| -1.19 | -1.38 | -2.53 | | |
| -1.28 | 1.97 | 0.94 | | |
| -7.07 | -2.72 | -1.29 | | |
| -8.65 | -3.17 | -1.45 | | |
| 5.23 | -3.41 | -5.7 | | |
| -2.68 | -1.8 | -0.28 | | |
| -2.78 | -5.53 | -3.96 | | |
| -3.42 | -6.58 | -4.71 | | |
| 2.62 | 3.56 | 1.28 | | |
| 1.12 | -3.65 | -4.7 | | |
| 1.11 | 1.43 | 0.39 | | |
| -3.78 | -2.81 | -1.79 | | |
| -4.09 | -1.38 | -0.24 | | |
| -4.15 | -0.54 | 0.62 | | |
| -4.5 | -2.65 | -1.37 | | |
| -4.5 | -3.45 | -2.17 | | |
| -4.88 | -4.68 | -3.28 | | |
| -6.35 | -3.47 | -1.69 | | |
| -11.94 | -4.29 | -1.6 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.07 | -0.23 | -2.51 | | |
| -1.22 | -1.16 | -3.05 | | |
| -1.37 | -2.99 | -4.72 | | |
| -1.51 | 0.4 | -1.19 | | |
| -9.67 | -4.87 | -3.78 | | |
| -10.32 | -1.64 | -0.45 | | |
| 1.88 | -1.95 | -4.23 | | |
| 1.81 | 0.9 | -1.33 | | |
| 1.01 | 1.41 | 0.03 | | |
| 1 | -1.46 | -2.84 | | |
| -1.15 | 3.01 | 1.84 | | |
| -1.16 | 1.16 | 0 | | |
| -1.22 | 3.42 | 2.34 | | |
| -6.37 | -2.83 | -1.53 | | |
| -6.67 | -2.16 | -0.8 | | |
| 1.12 | 2 | -0.28 | | |
| -1.39 | 0.53 | -1.1 | | |
| -1.78 | -0.43 | -1.72 | | |
| -1.95 | -2.73 | -3.88 | | |
| 3.85 | -5.27 | -7.55 | | |
| 3.71 | -2.81 | -5.03 | | |
| 2.89 | -5.56 | -7.43 | | |
| 1.71 | -6.94 | -8.05 | | |
| 1.67 | -4.9 | -5.97 | | |
| 1.63 | -5.17 | -6.2 | | |
| -4.61 | -5.09 | -3.22 | | |
| 1.07 | -4.68 | -6.96 | | |
| 1.05 | -3.58 | -5.82 | | |
| 1.01 | -4.37 | -6.56 | | |
| -1.07 | -5.3 | -7.38 | | |
| -1.11 | -2.75 | -4.77 | | |
| -1.26 | -4.65 | -6.48 | | |
| -1.37 | -5.89 | -7.61 | | |
| -1.4 | 0.9 | -0.79 | | |
| -1.48 | -7.39 | -9 | | |
| -1.56 | -4.38 | -5.91 | | |
| -1.78 | -5.69 | -7.03 | | |
| -2.04 | 1.95 | 0.8 | | |
| -2.05 | 2.86 | 1.72 | | |
| -2.19 | -3.66 | -4.7 | | |
| -2.25 | 1.31 | 0.3 | | |
| -12.76 | -6.21 | -4.71 | | |
| 1.42 | -1.73 | -4.01 | | |
| -1.14 | -2.09 | -3.67 | | |
| -1.62 | 0.51 | -0.57 | | |
| -8.54 | 0.23 | 1.55 | | |
| -8.98 | -0.71 | 0.68 | | |
| -11.23 | -0.38 | 1.33 | | |
| -11.68 | -1.14 | 0.63 | | |
| 3.1 | -0.51 | -2.78 | | |
| 1.72 | 1.12 | -0.3 | | |
| 1.57 | -0.98 | -2.27 | | |
| 1.5 | -1.31 | -2.54 | | |
| -3.16 | -4.15 | -3.13 | | |
| -3.65 | -3.44 | -2.21 | | |
| 3.19 | -6.38 | -8.65 | | |
| 1.52 | -5.11 | -6.32 | | |
| 6.6 | 0.76 | -1.51 | | |

| | | | | |
|--------|-------|-------|--|--|
| 4.24 | 0.03 | -1.6 | | |
| 4.24 | 0.03 | -1.6 | | |
| 4.24 | 0.77 | -0.86 | | |
| 4.1 | 0.51 | -1.07 | | |
| 4.1 | 0.51 | -1.07 | | |
| 4.1 | 0.51 | -1.07 | | |
| 3.68 | 0.52 | -0.91 | | |
| 3.36 | -0.69 | -1.98 | | |
| 2.94 | 1.82 | 0.72 | | |
| 2.86 | 0.81 | -0.25 | | |
| 2.81 | 1 | -0.04 | | |
| 2.78 | -0.45 | -1.47 | | |
| 2.78 | -0.45 | -1.47 | | |
| 2.78 | -0.45 | -1.47 | | |
| -1.49 | 0.99 | 2.02 | | |
| -1.8 | -0.97 | 0.33 | | |
| 5.09 | 2.4 | 0.13 | | |
| 2.47 | -3.68 | -4.91 | | |
| -2.04 | -2.29 | -1.18 | | |
| 3.83 | 1.12 | -1.14 | | |
| 1.71 | 0.12 | -0.98 | | |
| 1.69 | 0.01 | -1.08 | | |
| 1.67 | -0.87 | -1.94 | | |
| 1.64 | 3.16 | 2.12 | | |
| 1.62 | 0.03 | -1 | | |
| -2.68 | -0.32 | 0.78 | | |
| -2.71 | -1.95 | -0.84 | | |
| 1.66 | 1.72 | -0.54 | | |
| 1.59 | 4.13 | 1.93 | | |
| 1.44 | -1.71 | -3.77 | | |
| 1.3 | 1.33 | -0.57 | | |
| 1.09 | -0.47 | -2.13 | | |
| 1.02 | -0.15 | -1.71 | | |
| 1.02 | -0.82 | -2.38 | | |
| -1.28 | -1.12 | -2.29 | | |
| -1.34 | -2 | -3.11 | | |
| -1.39 | 0.38 | -0.68 | | |
| -1.4 | -1.58 | -2.63 | | |
| -1.41 | -0.85 | -1.89 | | |
| -5.95 | 0.76 | 1.8 | | |
| -6.68 | 0.34 | 1.55 | | |
| -7.71 | -1.43 | -0.01 | | |
| -9.1 | -2.61 | -0.96 | | |
| -11 | -2.18 | -0.25 | | |
| -11.39 | -0.28 | 1.7 | | |
| 1.06 | 3.2 | 0.94 | | |
| 1.02 | 0.14 | -2.07 | | |
| -1.4 | 0.97 | -0.72 | | |
| -1.44 | -0.66 | -2.32 | | |
| -1.51 | 2.63 | 1.05 | | |
| -1.69 | 0.74 | -0.68 | | |
| -1.77 | 0.83 | -0.53 | | |
| 1.84 | -0.85 | -3.11 | | |
| 1.66 | -2.66 | -4.77 | | |
| 1.55 | 0.6 | -1.42 | | |
| 1.18 | 1.2 | -0.42 | | |
| 1.03 | -0.03 | -1.46 | | |
| -1.07 | 0.39 | -0.9 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.13 | 4.1 | 2.9 | | |
| -1.13 | 1.54 | 0.33 | | |
| -1.27 | -0.1 | -1.14 | | |
| 2.46 | -0.22 | -2.48 | | |
| 1.77 | -1.33 | -3.12 | | |
| 1.64 | -0.3 | -1.98 | | |
| 1.09 | -3.32 | -4.41 | | |
| -4.39 | -1.08 | 0.09 | | |
| 2.29 | -4.79 | -7.05 | | |
| 2.09 | -3.5 | -5.63 | | |
| 1.94 | -5.1 | -7.12 | | |
| 1.85 | -5.21 | -7.16 | | |
| 1.54 | -2.44 | -4.13 | | |
| 1.53 | -4.12 | -5.79 | | |
| 1.27 | -3.73 | -5.14 | | |
| 1.19 | -2.21 | -3.53 | | |
| 1.15 | -6 | -7.27 | | |
| 1.07 | -6.58 | -7.74 | | |
| 1.01 | -5.61 | -6.68 | | |
| -1.01 | -1.93 | -2.99 | | |
| -1.02 | -5.64 | -6.67 | | |
| -1.03 | -5.41 | -6.44 | | |
| -5.84 | -1.89 | -0.41 | | |
| 4.98 | -0.49 | -2.75 | | |
| -2.26 | -5.33 | -4.09 | | |
| -2.51 | -4.25 | -2.86 | | |
| 2.7 | 1.54 | -0.71 | | |
| 2.02 | 0.11 | -1.72 | | |
| 1.43 | -0.15 | -1.49 | | |
| 1.22 | -1.12 | -2.22 | | |
| 1.21 | 0.27 | -0.82 | | |
| 1.18 | 4.04 | 2.98 | | |
| 1.17 | 1.14 | 0.09 | | |
| 2.24 | -2.67 | -4.92 | | |
| 1.67 | -3.16 | -4.99 | | |
| 1.45 | -3.74 | -5.37 | | |
| 1.18 | -4.05 | -5.38 | | |
| -4.63 | -1.84 | -0.72 | | |
| 2.28 | 0.52 | -1.74 | | |
| 1.61 | -0.32 | -2.08 | | |
| 1.39 | 1.07 | -0.47 | | |
| 1.3 | -0.66 | -2.11 | | |
| 1.24 | -0.02 | -1.4 | | |
| 1.21 | -0.69 | -2.03 | | |
| 1.17 | 0.83 | -0.47 | | |
| 1.15 | 3.31 | 2.04 | | |
| 1.06 | 4.77 | 3.61 | | |
| 1.05 | 6.19 | 5.05 | | |
| 1.03 | -0.68 | -1.79 | | |
| 1.03 | 4.2 | 3.09 | | |
| 1.03 | 0.87 | -0.23 | | |
| -1 | 2.26 | 1.2 | | |
| -1.01 | 0.08 | -0.98 | | |
| -4.37 | -0.03 | 1.03 | | |
| -4.52 | -1.1 | 0.01 | | |
| -5.9 | -0.21 | 1.28 | | |
| 4.53 | 0.82 | -1.43 | | |
| 3.75 | -2.58 | -4.56 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.19 | -2.69 | -3.9 | | |
| -2.67 | -5.83 | -4.49 | | |
| 2.3 | 1.05 | -1.2 | | |
| 2.23 | -0.05 | -2.25 | | |
| 2.23 | 1.15 | -1.05 | | |
| 2.04 | -2.17 | -4.24 | | |
| 2.03 | 1.83 | -0.24 | | |
| 1.98 | 0.05 | -1.99 | | |
| 1.93 | -2.83 | -4.83 | | |
| 1.89 | 1.17 | -0.8 | | |
| 1.87 | 1.75 | -0.21 | | |
| 1.75 | 2.19 | 0.33 | | |
| 1.73 | 0.99 | -0.85 | | |
| 1.65 | 3.79 | 2.02 | | |
| 1.64 | -0.11 | -1.87 | | |
| 1.62 | -3.29 | -5.03 | | |
| 1.61 | 0.91 | -0.83 | | |
| 1.6 | 2.36 | 0.63 | | |
| 1.57 | 1.74 | 0.04 | | |
| 1.54 | 1.11 | -0.57 | | |
| 1.54 | -2.17 | -3.85 | | |
| 1.54 | 0.14 | -1.53 | | |
| 1.37 | 1.41 | -0.09 | | |
| 1.25 | -2.21 | -3.58 | | |
| 1.22 | 0.2 | -1.14 | | |
| 1.22 | -1.15 | -2.49 | | |
| 1.21 | -1.88 | -3.21 | | |
| 1.12 | -0.76 | -1.97 | | |
| 1.06 | -3.51 | -4.64 | | |
| 1.03 | 0.36 | -0.73 | | |
| 1.01 | -3.81 | -4.88 | | |
| -5.58 | -3.92 | -2.49 | | |
| -5.61 | -1.44 | -0.01 | | |
| -8.38 | -1.48 | 0.54 | | |
| -14.89 | -1.42 | 1.43 | | |
| 3.99 | 0.98 | -1.27 | | |
| 2.04 | -0.33 | -1.61 | | |
| 2.01 | 1.02 | -0.24 | | |
| 1.74 | 2.34 | 1.29 | | |
| -2.44 | -0.65 | 0.38 | | |
| -3.09 | -1.42 | -0.05 | | |
| 6.87 | -3.47 | -5.72 | | |
| -1.46 | -3.76 | -2.67 | | |
| -1.66 | -5.18 | -3.91 | | |
| 2.81 | -0.89 | -3.13 | | |
| 2.5 | -1.4 | -3.48 | | |
| 2.48 | -1.43 | -3.49 | | |
| 2.26 | 0.64 | -1.29 | | |
| 2.01 | -1.84 | -3.6 | | |
| 1.83 | -0.95 | -2.58 | | |
| 1.65 | -1.62 | -3.1 | | |
| 1.52 | -0.17 | -1.53 | | |
| 1.46 | -0.81 | -2.11 | | |
| 1.39 | -2.44 | -3.67 | | |
| 1.38 | -0.7 | -1.91 | | |
| 1.38 | -2.82 | -4.04 | | |
| 1.35 | 1.48 | 0.29 | | |
| 1.31 | -1.1 | -2.25 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.26 | 0.65 | -0.43 | | |
| 1.19 | -3.35 | -4.34 | | |
| 7.49 | -4.37 | -6.62 | | |
| 4.51 | -4.28 | -5.79 | | |
| 3.28 | -4.33 | -5.39 | | |
| -1.3 | -3.75 | -2.71 | | |
| -1.42 | -7.9 | -6.73 | | |
| -1.48 | -3.33 | -2.11 | | |
| -1.69 | -2.61 | -1.19 | | |
| 1.41 | -2.9 | -5.14 | | |
| -1.15 | -0.4 | -1.96 | | |
| -1.28 | -1.7 | -3.1 | | |
| -1.55 | 0.97 | -0.15 | | |
| -1.62 | -4.01 | -5.06 | | |
| 5.47 | 1.7 | -0.55 | | |
| 2.31 | 0.49 | -0.51 | | |
| 8.76 | -0.85 | -3.09 | | |
| 8.65 | 0.37 | -1.85 | | |
| 7.07 | 0.37 | -1.57 | | |
| 5.13 | 1.86 | 0.39 | | |
| 5 | -0.63 | -2.06 | | |
| -1.19 | 1.66 | 2.8 | | |
| -1.2 | 0.92 | 2.06 | | |
| 1.25 | -1.43 | -3.66 | | |
| 1.23 | 1.64 | -0.57 | | |
| 1.14 | -3.52 | -5.62 | | |
| 1.1 | 0.03 | -2.03 | | |
| 1.09 | -3.19 | -5.23 | | |
| 1.05 | -2.01 | -4 | | |
| 1.02 | -1.27 | -3.22 | | |
| 1.02 | 3.62 | 1.68 | | |
| -1.16 | 1.37 | -0.33 | | |
| -1.44 | -2.03 | -3.41 | | |
| -1.51 | 0.55 | -0.77 | | |
| -1.78 | -4.03 | -5.11 | | |
| -7.55 | -2.75 | -1.75 | | |
| -9.53 | -3.25 | -1.91 | | |
| -12.2 | -3.82 | -2.13 | | |
| 8.6 | 0.13 | -2.11 | | |
| 4.45 | -0.95 | -2.24 | | |
| -1.12 | -0.12 | 0.9 | | |
| -1.15 | -0.37 | 0.7 | | |
| -1.19 | -1.42 | -0.3 | | |
| 1.71 | 3.72 | 1.48 | | |
| 1.44 | 3.31 | 1.33 | | |
| 1.35 | 3.45 | 1.56 | | |
| 1.35 | -0.2 | -2.08 | | |
| 1.23 | 1.17 | -0.58 | | |
| 1.2 | 1.03 | -0.69 | | |
| 1.19 | 2.72 | 1 | | |
| -1.07 | 2.35 | 0.99 | | |
| -1.07 | 4.82 | 3.47 | | |
| -1.08 | 0.05 | -1.3 | | |
| -1.14 | 3.58 | 2.31 | | |
| -1.18 | -0.3 | -1.52 | | |
| -1.19 | 2.01 | 0.8 | | |
| -1.2 | -0.68 | -1.88 | | |
| -1.21 | -1.46 | -2.64 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.24 | -1.06 | -2.21 | | |
| -1.25 | -0.23 | -1.37 | | |
| -1.26 | 3.45 | 2.33 | | |
| -1.37 | -1.1 | -2.11 | | |
| 2.03 | -2.64 | -4.87 | | |
| 1.58 | 2.18 | 0.3 | | |
| 1.37 | -0.18 | -1.84 | | |
| 1.02 | -2.4 | -3.64 | | |
| -1.01 | -3.31 | -4.5 | | |
| -1.02 | 0.76 | -0.43 | | |
| -1.02 | -2.6 | -3.79 | | |
| 1.36 | -2.18 | -4.42 | | |
| 1.28 | -5.39 | -7.54 | | |
| 1.21 | -2.07 | -4.14 | | |
| -1.6 | -4.38 | -5.5 | | |
| 3.56 | -1.13 | -3.37 | | |
| 1.55 | -3.93 | -4.97 | | |
| -2.66 | -3.48 | -2.48 | | |
| 4.07 | 1.24 | -1 | | |
| 3.39 | -0.85 | -2.82 | | |
| 1.94 | 1.11 | -0.06 | | |
| 2.68 | -0.76 | -2.99 | | |
| 1.48 | -1.33 | -2.7 | | |
| 1.45 | 0.09 | -1.25 | | |
| 1.29 | 2.2 | 1.02 | | |
| 1.28 | 2.05 | 0.89 | | |
| -3.53 | -0.81 | 0.21 | | |
| -3.71 | -2.33 | -1.25 | | |
| -4.16 | -1.2 | 0.04 | | |
| 2.2 | -0.71 | -2.94 | | |
| 1.5 | 0.66 | -1.02 | | |
| 1.4 | 1.75 | 0.17 | | |
| 1.36 | -0.01 | -1.55 | | |
| 1.34 | -0.27 | -1.79 | | |
| 1.31 | -3.1 | -4.58 | | |
| 1.3 | -0.17 | -1.65 | | |
| 1.28 | -1.47 | -2.92 | | |
| 1.24 | 0.85 | -0.56 | | |
| 1.22 | 1.85 | 0.47 | | |
| 1.14 | 1.19 | -0.09 | | |
| 1.13 | -1.09 | -2.36 | | |
| 1.1 | 0.01 | -1.22 | | |
| 1.07 | -1.84 | -3.02 | | |
| 1.06 | 0.68 | -0.5 | | |
| 1.06 | 0.59 | -0.59 | | |
| 1.03 | 2.96 | 1.82 | | |
| 1.03 | 0.28 | -0.85 | | |
| 1.02 | 0.2 | -0.92 | | |
| -1.05 | 0.23 | -0.8 | | |
| -1.07 | -0.08 | -1.08 | | |
| -4.35 | -0.99 | 0.03 | | |
| -5.46 | -1.71 | -0.35 | | |
| 2.2 | -0.71 | -2.94 | | |
| 1.5 | 0.66 | -1.02 | | |
| 1.4 | 1.75 | 0.17 | | |
| 1.36 | -0.01 | -1.55 | | |
| 1.34 | -0.27 | -1.79 | | |
| 1.31 | -3.1 | -4.58 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.3 | -0.17 | -1.65 | | |
| 1.28 | -1.47 | -2.92 | | |
| 1.24 | 0.85 | -0.56 | | |
| 1.22 | 1.85 | 0.47 | | |
| 1.14 | 1.19 | -0.09 | | |
| 1.13 | -1.09 | -2.36 | | |
| 1.1 | 0.01 | -1.22 | | |
| 1.07 | -1.84 | -3.02 | | |
| 1.06 | 0.68 | -0.5 | | |
| 1.06 | 0.59 | -0.59 | | |
| 1.03 | 2.96 | 1.82 | | |
| 1.03 | 0.28 | -0.85 | | |
| 1.02 | 0.2 | -0.92 | | |
| -1.05 | 0.23 | -0.8 | | |
| -1.07 | -0.08 | -1.08 | | |
| -4.35 | -0.99 | 0.03 | | |
| -5.46 | -1.71 | -0.35 | | |
| 1.92 | 5.32 | 3.09 | | |
| 1.36 | 4.44 | 2.71 | | |
| -1.06 | 0.9 | -0.31 | | |
| -1.08 | 0.61 | -0.58 | | |
| -1.11 | 5.1 | 3.95 | | |
| -1.12 | 1.47 | 0.35 | | |
| 2.85 | 0.96 | -1.27 | | |
| 2.02 | 3.33 | 1.6 | | |
| 1.91 | 1.51 | -0.14 | | |
| 1.88 | 2.68 | 1.05 | | |
| 1.75 | -0.49 | -2.01 | | |
| 1.66 | 2.02 | 0.58 | | |
| 1.61 | 5.39 | 3.99 | | |
| 1.58 | 1.42 | 0.05 | | |
| 1.32 | 4.21 | 3.1 | | |
| 1.31 | 3.89 | 2.79 | | |
| 1.3 | 3.69 | 2.6 | | |
| 1.29 | 6.95 | 5.87 | | |
| 1.28 | -0.88 | -1.95 | | |
| 1.29 | 6 | 4.93 | | |
| 1.26 | 4.3 | 3.26 | | |
| 1.26 | -0.58 | -1.62 | | |
| 1.25 | 4.13 | 3.09 | | |
| 1.25 | 5 | 3.97 | | |
| 1.22 | 0.85 | -0.15 | | |
| 1.17 | -1.91 | -4.13 | | |
| 1.03 | 5.63 | 3.59 | | |
| -1.2 | -0.17 | -1.91 | | |
| -1.22 | 5.88 | 4.18 | | |
| -1.29 | 7.86 | 6.23 | | |
| -1.29 | 1.19 | -0.44 | | |
| -1.39 | -0.47 | -1.99 | | |
| -1.44 | -0.39 | -1.86 | | |
| -1.74 | -1.94 | -3.14 | | |
| -1.82 | 1.33 | 0.19 | | |
| -1.84 | 0.45 | -0.66 | | |
| 2.72 | 0.85 | -1.37 | | |
| 1.29 | -2.11 | -3.26 | | |
| 1.21 | 1.75 | 0.7 | | |
| 3.15 | -0.45 | -2.67 | | |
| 2.06 | -2.14 | -3.75 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.55 | -4.19 | -5.39 | | |
| 1.53 | -4.4 | -5.58 | | |
| 1.51 | -4.04 | -5.2 | | |
| 1.5 | -2.06 | -3.21 | | |
| 1.43 | -1.97 | -3.06 | | |
| -4.35 | -5.23 | -3.68 | | |
| 2.95 | 0.42 | -1.8 | | |
| 1.45 | 0.64 | -0.56 | | |
| -3.7 | -0.01 | 1.21 | | |
| -3.91 | -1.04 | 0.27 | | |
| -4.3 | -1.11 | 0.34 | | |
| -4.4 | -1.96 | -0.48 | | |
| -6.84 | -0.52 | 1.59 | | |
| 2.97 | 0.29 | -1.93 | | |
| 1.89 | 0.87 | -0.7 | | |
| 1.79 | -0.24 | -1.72 | | |
| 1.56 | -0.27 | -1.57 | | |
| 1.48 | -1.06 | -2.27 | | |
| 1.31 | 0.6 | -0.44 | | |
| 1.31 | -2.43 | -3.47 | | |
| 1.31 | -1.34 | -2.39 | | |
| 1.28 | 2.55 | 1.54 | | |
| 1.28 | -2.35 | -3.36 | | |
| 2.27 | -1.71 | -3.93 | | |
| 1.97 | 0.37 | -1.65 | | |
| 1.56 | 0.3 | -1.38 | | |
| 1.33 | 0.94 | -0.51 | | |
| 1.31 | 1.97 | 0.54 | | |
| 1.21 | -1.51 | -2.82 | | |
| 1.14 | -1.44 | -2.66 | | |
| 1.05 | -2.75 | -3.86 | | |
| 1.05 | -0.37 | -1.48 | | |
| 1 | -1.66 | -2.7 | | |
| -1 | -3.92 | -4.95 | | |
| 1.64 | -3.66 | -5.88 | | |
| 1.51 | -1.09 | -3.18 | | |
| 1.26 | 0.78 | -1.07 | | |
| 1.25 | -3.14 | -4.97 | | |
| 1.11 | -2.64 | -4.3 | | |
| -1.03 | -1.25 | -2.71 | | |
| -1.03 | -1.8 | -3.26 | | |
| -1.04 | 0.09 | -1.36 | | |
| -1.2 | -0.39 | -1.63 | | |
| -1.21 | 0.36 | -0.88 | | |
| -1.21 | -5.69 | -6.92 | | |
| -1.32 | -3.02 | -4.12 | | |
| -1.37 | -1.09 | -2.14 | | |
| 2.04 | 1.25 | -0.97 | | |
| 1.48 | 2.51 | 0.75 | | |
| 1.36 | 4.61 | 2.97 | | |
| 1.33 | 2.93 | 1.32 | | |
| 1.19 | 4.45 | 3.01 | | |
| 1.14 | 0.24 | -1.15 | | |
| 1.12 | -0.54 | -1.9 | | |
| 1.08 | 5.78 | 4.48 | | |
| 1.07 | 6.61 | 5.32 | | |
| 1.06 | -1.6 | -2.87 | | |
| 1.04 | -1.37 | -2.61 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.02 | 6 | 4.77 | | |
| -1.13 | 2.62 | 1.61 | | |
| -5.73 | 0.25 | 1.57 | | |
| -6.05 | -1.13 | 0.27 | | |
| 7.1 | -2.91 | -5.13 | | |
| 6.85 | -4.89 | -7.06 | | |
| 6.73 | -1.69 | -3.83 | | |
| 5.2 | -2.31 | -4.08 | | |
| 3.86 | -5.13 | -6.47 | | |
| 3.65 | -3.4 | -4.66 | | |
| 3.45 | -3.48 | -4.65 | | |
| 3.38 | -3.01 | -4.16 | | |
| 3.13 | -1.55 | -2.59 | | |
| -1.48 | -4.59 | -3.41 | | |
| -1.48 | -6.78 | -5.6 | | |
| 1.76 | -0.79 | -3.01 | | |
| 1.56 | -1.65 | -3.69 | | |
| 1.07 | 2.4 | 0.9 | | |
| 1 | -2.73 | -4.14 | | |
| -1.1 | -3.3 | -4.56 | | |
| -1.13 | -1.24 | -2.46 | | |
| -1.23 | -1.76 | -2.86 | | |
| -1.24 | -5.45 | -6.55 | | |
| -1.28 | 1.38 | 0.34 | | |
| -5.38 | -4.07 | -3.05 | | |
| 3.4 | -3.35 | -5.56 | | |
| 1.64 | -2.21 | -3.37 | | |
| 2.28 | 0.92 | -1.3 | | |
| 2.11 | -1.08 | -3.18 | | |
| -1.02 | -4.92 | -5.93 | | |
| 2.89 | -1.61 | -3.82 | | |
| 1.37 | -2.2 | -3.34 | | |
| 1.34 | 0.99 | -1.22 | | |
| 1.3 | -2.83 | -5 | | |
| 1.12 | 1.21 | -0.73 | | |
| 1.02 | 4.87 | 3.05 | | |
| -1.2 | -2.63 | -4.16 | | |
| -1.21 | -1.7 | -3.22 | | |
| -1.22 | -1.6 | -3.1 | | |
| -1.25 | 1.18 | -0.29 | | |
| -1.26 | 1.39 | -0.07 | | |
| -1.28 | -1.52 | -2.96 | | |
| -1.34 | -2.55 | -3.91 | | |
| -1.37 | -2.8 | -4.13 | | |
| -1.41 | 1.63 | 0.34 | | |
| -1.42 | -2.21 | -3.49 | | |
| -1.72 | -2.19 | -3.2 | | |
| 5.21 | -1.43 | -3.65 | | |
| 2.28 | -0.16 | -1.18 | | |
| -1.9 | -2.32 | -1.22 | | |
| -1.92 | -0.19 | 0.92 | | |
| 1.03 | -4.27 | -6.47 | | |
| -1.34 | -3.86 | -5.61 | | |
| -1.36 | -4.19 | -5.9 | | |
| -1.48 | 0.91 | -0.69 | | |
| -1.55 | 0.14 | -1.39 | | |
| -1.74 | -2.97 | -4.33 | | |
| -1.79 | 0.59 | -0.73 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.97 | 0.78 | -0.41 | | |
| -2.03 | 0.11 | -1.03 | | |
| -2.1 | -0.97 | -2.06 | | |
| 17.65 | 1.07 | -1.14 | | |
| 1.78 | -0.24 | 0.86 | | |
| 1.76 | 0.06 | 1.17 | | |
| 1.71 | -0.68 | 0.48 | | |
| -1.15 | -1.1 | 1.03 | | |
| -1.86 | -0.62 | 2.21 | | |
| 5.63 | 1.27 | -0.94 | | |
| 2.77 | -1.18 | -2.37 | | |
| 1.38 | -0.54 | -2.75 | | |
| 1.27 | -4.42 | -6.5 | | |
| -1.42 | -0.65 | -1.89 | | |
| -1.58 | 3.99 | 2.91 | | |
| -8.3 | -3.01 | -1.7 | | |
| -9.81 | -4.77 | -3.22 | | |
| 1.37 | -0.75 | -2.96 | | |
| -1.29 | -1.19 | -2.58 | | |
| -1.51 | 1.08 | -0.08 | | |
| -7.64 | -0.98 | 0.2 | | |
| -17.13 | -2.54 | -0.21 | | |
| 1.01 | -1.9 | -4.11 | | |
| -1.09 | 2.32 | 0.25 | | |
| -1.1 | -0.88 | -2.93 | | |
| -1.28 | 1.37 | -0.46 | | |
| -1.34 | 1.03 | -0.74 | | |
| -1.58 | -1.71 | -3.25 | | |
| -1.82 | 1.91 | 0.58 | | |
| 4.31 | -1.15 | -3.36 | | |
| 2.6 | -3.95 | -5.42 | | |
| 2.24 | 0.59 | -0.67 | | |
| 4.65 | -1.28 | -3.49 | | |
| 2.14 | -3.69 | -4.77 | | |
| -2.01 | -4.11 | -3.09 | | |
| -2.15 | -1.9 | -0.78 | | |
| 6.4 | 3.17 | 0.96 | | |
| -1.53 | 0.54 | 1.63 | | |
| -1.65 | 2.76 | 3.96 | | |
| -1.88 | -1.59 | -0.2 | | |
| 4.58 | -1.01 | -3.21 | | |
| 3.95 | -1.52 | -3.51 | | |
| 2.51 | -0.27 | -1.6 | | |
| 2.3 | -0.44 | -1.65 | | |
| -3.67 | -2.1 | -0.23 | | |
| 3.26 | -0.08 | -2.28 | | |
| 1.9 | 2.57 | 1.15 | | |
| 1.88 | 0.95 | -0.46 | | |
| 1.71 | 0.68 | -0.6 | | |
| 1.48 | -0.83 | -1.89 | | |
| 1.47 | 0.45 | -0.6 | | |
| 1.42 | 1.23 | 0.23 | | |
| 12.52 | 1.2 | -1 | | |
| 1.08 | 1.21 | 2.55 | | |
| 1.03 | 5.07 | 6.48 | | |
| -1.01 | -1.16 | 0.31 | | |
| -1.36 | 1.24 | 3.13 | | |
| 3.57 | 1.41 | -0.79 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.33 | 0.26 | -1.32 | | |
| 2.63 | 0.1 | -2.1 | | |
| 1.45 | -2.45 | -3.79 | | |
| 1.4 | 1.65 | 0.36 | | |
| -4.53 | -2.9 | -1.53 | | |
| 2.26 | -2.15 | -4.34 | | |
| 1.35 | 1.49 | 0.03 | | |
| 1.34 | -5.38 | -6.83 | | |
| 1.33 | -3.72 | -5.15 | | |
| 1.31 | -2.9 | -4.32 | | |
| 1.04 | -5.47 | -6.55 | | |
| 1.04 | -3.51 | -4.58 | | |
| 1.57 | -1.09 | -3.29 | | |
| 1.46 | -1.42 | -3.51 | | |
| 1.12 | -4.73 | -6.43 | | |
| 1.11 | 1.74 | 0.05 | | |
| 1.01 | -0.37 | -1.92 | | |
| -1.19 | -1.08 | -2.37 | | |
| -1.21 | -2.37 | -3.64 | | |
| 1.04 | 4.22 | 2.02 | | |
| -1.07 | 1.39 | -0.64 | | |
| -2.16 | -2.2 | -3.22 | | |
| 1.16 | 3.65 | 1.46 | | |
| 1.06 | -0.46 | -2.53 | | |
| -1.36 | 0.18 | -1.35 | | |
| -1.4 | 1.82 | 0.33 | | |
| -1.4 | 2.87 | 1.38 | | |
| -1.74 | -2.54 | -3.72 | | |
| -11.06 | 0.43 | 1.92 | | |
| -14.66 | -0.8 | 1.1 | | |
| 1.07 | 0.36 | -1.83 | | |
| 1.02 | 0.17 | -1.95 | | |
| 1 | -1.07 | -3.16 | | |
| -1 | -1.54 | -3.62 | | |
| -1.57 | -2.6 | -4.03 | | |
| -1.76 | -0.62 | -1.89 | | |
| -8.7 | -1.31 | -0.28 | | |
| 1.09 | -3.7 | -5.89 | | |
| 1.05 | -4.69 | -6.83 | | |
| 1.05 | -2.07 | -4.21 | | |
| 1.05 | -1.98 | -4.12 | | |
| 1.04 | -2.08 | -4.21 | | |
| -1.01 | -0.44 | -2.49 | | |
| -1.01 | -2.6 | -4.65 | | |
| -1.03 | -3 | -5.03 | | |
| -1.13 | -3.62 | -5.51 | | |
| -1.22 | 0.7 | -1.08 | | |
| -1.33 | -1.99 | -3.65 | | |
| -1.54 | -3.26 | -4.71 | | |
| -1.69 | -0.64 | -1.96 | | |
| -1.71 | -4.37 | -5.67 | | |
| -1.8 | -0.01 | -1.24 | | |
| -1.96 | 0.26 | -0.84 | | |
| -1.97 | -3.88 | -4.97 | | |
| -1.98 | -2.15 | -3.24 | | |
| -2.01 | -0.89 | -1.96 | | |
| 1.83 | -0.25 | -2.44 | | |
| 1.34 | -1.44 | -3.19 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.22 | 4.85 | 3.23 | | |
| 1.12 | 3.66 | 2.17 | | |
| 1.12 | -1.45 | -2.94 | | |
| 1.08 | 4.56 | 3.12 | | |
| -1.06 | -2.01 | -3.26 | | |
| -5.93 | -1.05 | 0.19 | | |
| 1.38 | -1.13 | -3.32 | | |
| 1.37 | -0.18 | -2.36 | | |
| 1.33 | 0.3 | -1.83 | | |
| 1.32 | -1.08 | -3.2 | | |
| 1.29 | -0.16 | -2.25 | | |
| 1.19 | -2.55 | -4.53 | | |
| 1.12 | 1.02 | -0.87 | | |
| 1.09 | 6.42 | 4.58 | | |
| -1.04 | -1.38 | -3.05 | | |
| -1.05 | 1.91 | 0.26 | | |
| -1.07 | -0.84 | -2.46 | | |
| -1.08 | 1.29 | -0.33 | | |
| -1.09 | -4.61 | -6.2 | | |
| -1.17 | -1.79 | -3.29 | | |
| -1.33 | -2.16 | -3.47 | | |
| -1.33 | -4.38 | -5.69 | | |
| -1.36 | 0.57 | -0.7 | | |
| -1.37 | -2.64 | -3.91 | | |
| -1.37 | 1.05 | -0.22 | | |
| -6.8 | -1.42 | -0.38 | | |
| -6.8 | -1.42 | -0.38 | | |
| -8.21 | -3.5 | -2.18 | | |
| 3.42 | -1.05 | -3.25 | | |
| 1.92 | -2.32 | -3.68 | | |
| 1.49 | -2.02 | -3.02 | | |
| 1.9 | -1.85 | -4.04 | | |
| 1.7 | -0.45 | -2.48 | | |
| 1.47 | -2.62 | -4.44 | | |
| 1.18 | 0.1 | -1.4 | | |
| 1.11 | 0.4 | -1.01 | | |
| 1.09 | 0.96 | -0.42 | | |
| -1 | 0.25 | -1.01 | | |
| -1.04 | -1.13 | -2.33 | | |
| -1.09 | -0.14 | -1.27 | | |
| -1.12 | -2.58 | -3.67 | | |
| -1.13 | -3.27 | -4.34 | | |
| -1.16 | 1.54 | 0.49 | | |
| -1.17 | -0.97 | -2.01 | | |
| -1.19 | 0.09 | -0.92 | | |
| -1.19 | -2.62 | -3.63 | | |
| -1.19 | 1.05 | 0.05 | | |
| -5.67 | -1.5 | -0.26 | | |
| -8.04 | -2.93 | -1.19 | | |
| 106.45 | 0.93 | -1.26 | | |
| 9.82 | 0.57 | 1.81 | | |
| 7.23 | -0.32 | 1.37 | | |
| 6.93 | 0.61 | 2.36 | | |
| 2.05 | -2.9 | 0.61 | | |
| 1.47 | 1.19 | -1 | | |
| 1.18 | -1.01 | -2.88 | | |
| 1.17 | 0.49 | -1.36 | | |
| 1.12 | 3.36 | 1.57 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.03 | 0.69 | -0.98 | | |
| 1.02 | 0.75 | -0.91 | | |
| 1.01 | -2.23 | -3.88 | | |
| -1.03 | -0.35 | -1.93 | | |
| -1.08 | 6.78 | 5.26 | | |
| -1.09 | -1.2 | -2.7 | | |
| -1.1 | -0.82 | -2.31 | | |
| -1.2 | 1.09 | -0.28 | | |
| -1.23 | -2.3 | -3.63 | | |
| -1.26 | -1.98 | -3.27 | | |
| -1.29 | 5.74 | 4.47 | | |
| -1.31 | 1.16 | -0.08 | | |
| -1.31 | -0.91 | -2.15 | | |
| -1.32 | -3.04 | -4.27 | | |
| -1.36 | -0.98 | -2.16 | | |
| -1.42 | -0.35 | -1.48 | | |
| -1.42 | 5.27 | 4.14 | | |
| -1.49 | -1.73 | -2.79 | | |
| -1.52 | 1.15 | 0.12 | | |
| -1.55 | 0.81 | -0.19 | | |
| -1.55 | 0.93 | -0.07 | | |
| -6.22 | -0.78 | 0.23 | | |
| -6.47 | 0.29 | 1.35 | | |
| -7.86 | 0.63 | 1.98 | | |
| -8.01 | -2.3 | -0.93 | | |
| 2.01 | -0.77 | -2.96 | | |
| 1.34 | 1.56 | -0.04 | | |
| 1.3 | 1.4 | -0.16 | | |
| 1.26 | 0.59 | -0.92 | | |
| 1.2 | 0.82 | -0.62 | | |
| 1.11 | 1.76 | 0.43 | | |
| 1.08 | -1.3 | -2.59 | | |
| 1.08 | 0.75 | -0.54 | | |
| 1 | 0.31 | -0.87 | | |
| 1 | -1.94 | -3.12 | | |
| -1 | 0.58 | -0.6 | | |
| -1.04 | -0.96 | -2.07 | | |
| -1.1 | 1.22 | 0.18 | | |
| -4.6 | -3.42 | -2.4 | | |
| -4.71 | -1.53 | -0.47 | | |
| -5.75 | -0.97 | 0.37 | | |
| -7.05 | -1.29 | 0.35 | | |
| 3.87 | 2.76 | 0.57 | | |
| 3.22 | -0.83 | -2.75 | | |
| 2.47 | -0.42 | -1.96 | | |
| 2.47 | 1.75 | 0.21 | | |
| 2.17 | 0.54 | -0.81 | | |
| 1.98 | -0.29 | -1.51 | | |
| 1.8 | -1.06 | -2.15 | | |
| -2.52 | -2.29 | -1.19 | | |
| 1.43 | -0.97 | -3.16 | | |
| 1.24 | 1.42 | -0.56 | | |
| 1.22 | 4.81 | 2.86 | | |
| 1.16 | 2.38 | 0.5 | | |
| 1.14 | 1.1 | -0.76 | | |
| 1.04 | 0.77 | -0.95 | | |
| -1.01 | -0.99 | -2.64 | | |
| -1.03 | 0.2 | -1.43 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.04 | 1.65 | 0.05 | | |
| -1.21 | -1.84 | -3.23 | | |
| -1.24 | 0.4 | -0.96 | | |
| -1.26 | -1.63 | -2.97 | | |
| -1.3 | 1.82 | 0.53 | | |
| -1.3 | -3.35 | -4.64 | | |
| -1.4 | -3.29 | -4.47 | | |
| -1.43 | -3.2 | -4.35 | | |
| -1.44 | -0.49 | -1.63 | | |
| -1.57 | -3.64 | -4.66 | | |
| -6.48 | -1.02 | 0.01 | | |
| -6.51 | -2.56 | -1.53 | | |
| -7.28 | -3.78 | -2.58 | | |
| -8.43 | -3.44 | -2.04 | | |
| 7.54 | -5.49 | -7.67 | | |
| 4.98 | -4.19 | -5.77 | | |
| 4.99 | -3.72 | -5.31 | | |
| 4.5 | -5.49 | -6.92 | | |
| 3.99 | -2.81 | -4.07 | | |
| 3.96 | -3.03 | -4.28 | | |
| 3.92 | -1.63 | -2.86 | | |
| 3.85 | -4.39 | -5.6 | | |
| 3.74 | -3.43 | -4.6 | | |
| 3.71 | -4.3 | -5.46 | | |
| 3.47 | -3.16 | -4.22 | | |
| 3.35 | -3 | -4.01 | | |
| -1.4 | -6.73 | -5.52 | | |
| -1.53 | -4.9 | -3.55 | | |
| 7.24 | -5.46 | -7.64 | | |
| 6.1 | -6.02 | -7.95 | | |
| 5.3 | -5.6 | -7.33 | | |
| 4.68 | -3.27 | -4.83 | | |
| 4.45 | -5.2 | -6.68 | | |
| 4.15 | -3.08 | -4.46 | | |
| 4.1 | -5.78 | -7.14 | | |
| 4.08 | -2.32 | -3.67 | | |
| -1.32 | -4.31 | -3.24 | | |
| -1.32 | -6.85 | -5.78 | | |
| -1.53 | -7.15 | -5.86 | | |
| -1.94 | -2.47 | -0.84 | | |
| -4.01 | -4.22 | -1.54 | | |
| 5.32 | 0.47 | -1.71 | | |
| 3.71 | 1.6 | -0.06 | | |
| 2.69 | 0.12 | -1.08 | | |
| 2.4 | 2.44 | 1.41 | | |
| 2.4 | -0.1 | -1.13 | | |
| -2.07 | -2.69 | -1.4 | | |
| 35.83 | 0.74 | -1.44 | | |
| 34.52 | -0.24 | -2.37 | | |
| 16.33 | -0.56 | -1.61 | | |
| 3.53 | 0.09 | 1.26 | | |
| 3.47 | -2.49 | -1.3 | | |
| 2.99 | -2.61 | -1.21 | | |
| 2.82 | -2.78 | -1.3 | | |
| 2.66 | -2.91 | -1.34 | | |
| 2.5 | -2.4 | -0.75 | | |
| 2.22 | -4.4 | -2.57 | | |
| 2.21 | -0.27 | 1.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.86 | -4 | -1.92 | | |
| 1.69 | 0.42 | 2.65 | | |
| 1.61 | -2.52 | -0.23 | | |
| 1.41 | -1.13 | 1.35 | | |
| 1.33 | 2.84 | 5.41 | | |
| 1.17 | -1.43 | 1.32 | | |
| 1.16 | -1 | 1.77 | | |
| 1.05 | -2.23 | 0.68 | | |
| -1.01 | -3.33 | -0.34 | | |
| -1.01 | -3.28 | -0.28 | | |
| -1.02 | -1.64 | 1.36 | | |
| -1.15 | -1.52 | 1.66 | | |
| -2.13 | -5.08 | -1.01 | | |
| 490.97 | 0.28 | -1.89 | | |
| 53.11 | -0.2 | 0.83 | | |
| 34.28 | 1.08 | 2.74 | | |
| 29.92 | -3.81 | -1.95 | | |
| 27.01 | 0.57 | 2.58 | | |
| 12.41 | -4.86 | -1.73 | | |
| 2.88 | -2.63 | -4.81 | | |
| 2.25 | -1.25 | -3.07 | | |
| 1.77 | -1.17 | -2.64 | | |
| 1.73 | 0.05 | -1.39 | | |
| 1.7 | 0.27 | -1.15 | | |
| 1.58 | 0.8 | -0.52 | | |
| 1.57 | -1.26 | -2.56 | | |
| 1.55 | 0.39 | -0.89 | | |
| 1.51 | -0.6 | -1.84 | | |
| 1.46 | 0.05 | -1.15 | | |
| 1.4 | 2.41 | 1.28 | | |
| 1.38 | 3.52 | 2.41 | | |
| 1.31 | -1.15 | -2.19 | | |
| -3.26 | -4.27 | -3.21 | | |
| -4.69 | -3.67 | -2.1 | | |
| -5.83 | -4.29 | -2.4 | | |
| 2.26 | 5.79 | 3.62 | | |
| 1.34 | 1.56 | 0.14 | | |
| 1.17 | 1.33 | 0.11 | | |
| 1.04 | 0.57 | -0.48 | | |
| 1.4 | 0.69 | -1.48 | | |
| 1.34 | 1.94 | -0.17 | | |
| 1.27 | 0.21 | -1.81 | | |
| 1.17 | 2.08 | 0.17 | | |
| 1.11 | -0.44 | -2.28 | | |
| 1.08 | 0.6 | -1.2 | | |
| 1.06 | 2.86 | 1.09 | | |
| 1.01 | 0.2 | -1.5 | | |
| -1.19 | 0.95 | -0.49 | | |
| -1.25 | -0.02 | -1.38 | | |
| -1.29 | -1.33 | -2.65 | | |
| -1.37 | 1.32 | 0.09 | | |
| -1.52 | 1.63 | 0.55 | | |
| -6.96 | 0.58 | 1.7 | | |
| -7.29 | -0.12 | 1.06 | | |
| -8.48 | 0.71 | 2.11 | | |
| -9.85 | -1.52 | 0.09 | | |
| -15.19 | -3.63 | -1.39 | | |
| -19.67 | -0.51 | 2.11 | | |

| | | | | |
|--------|-------|-------|--|--|
| -22.42 | -0.55 | 2.25 | | |
| -24.98 | -1.4 | 1.56 | | |
| -37.03 | -0.39 | 3.14 | | |
| 54.83 | -2.07 | -4.24 | | |
| 52.06 | -2.98 | -5.07 | | |
| 41.42 | -3.59 | -5.36 | | |
| 33.6 | -4.17 | -5.64 | | |
| 29.54 | -2.36 | -3.64 | | |
| 28.88 | -3.18 | -4.43 | | |
| 25.53 | -1.71 | -2.78 | | |
| 6.1 | 0.87 | 1.87 | | |
| 3.78 | -6.28 | -4.59 | | |
| 1.5 | -6.18 | -3.15 | | |
| 1.46 | -8.76 | -5.7 | | |
| 5.11 | -0.6 | -2.77 | | |
| 5.04 | 0.23 | -1.93 | | |
| -3.53 | -7.8 | -5.79 | | |
| 3.39 | -1.54 | -3.7 | | |
| 1.71 | -3.59 | -4.76 | | |
| 1.7 | -2.57 | -3.73 | | |
| -3.2 | -2.09 | -0.81 | | |
| 1.66 | -0.84 | -3 | | |
| 1.16 | 6.61 | 4.97 | | |
| -1.11 | 6.81 | 5.54 | | |
| -1.21 | 4.03 | 2.87 | | |
| -1.32 | 2.49 | 1.46 | | |
| -7.3 | 0.49 | 1.93 | | |
| -9.39 | 0.14 | 1.94 | | |
| 5.39 | 3.17 | 1.01 | | |
| 3.45 | -0.33 | -1.85 | | |
| 3.32 | 0.63 | -0.83 | | |
| 2.72 | 3.57 | 2.39 | | |
| -1.79 | 4.06 | 5.16 | | |
| 1.83 | 1.91 | -0.25 | | |
| 1.22 | 4.09 | 2.52 | | |
| 1.1 | 2.18 | 0.75 | | |
| 1.04 | -0.53 | -1.87 | | |
| -1.21 | -2.76 | -3.77 | | |
| -5.42 | -3.36 | -2.21 | | |
| 1.92 | 3 | 0.84 | | |
| 1.29 | -1.28 | -2.86 | | |
| 1.16 | 1.25 | -0.18 | | |
| -1.07 | 3.27 | 2.14 | | |
| -1.07 | 1.5 | 0.38 | | |
| 2.23 | 3.04 | 0.88 | | |
| 1.08 | 2.81 | 1.69 | | |
| -4.1 | 0.32 | 1.36 | | |
| -4.23 | -0.98 | 0.1 | | |
| -5.74 | -1.67 | -0.15 | | |
| 6.63 | -0.45 | -2.6 | | |
| 6.29 | -0.84 | -2.92 | | |
| 6.27 | -0.75 | -2.82 | | |
| 5.82 | -1.63 | -3.6 | | |
| 3.83 | -1.37 | -2.73 | | |
| 3.71 | -1.82 | -3.14 | | |
| 3.58 | -0.71 | -1.98 | | |
| 3.15 | -2.7 | -3.79 | | |
| 5.53 | 0.21 | -1.95 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.84 | 2.92 | 1.73 | | |
| 2.68 | -0.64 | -1.75 | | |
| 1.47 | 2.09 | -0.07 | | |
| 1.47 | -5.12 | -7.26 | | |
| 1.32 | 3.07 | 1.08 | | |
| 1.28 | -0.37 | -2.32 | | |
| 1.16 | 1.05 | -0.76 | | |
| 1.1 | -0.18 | -1.91 | | |
| -1.05 | -4.23 | -5.76 | | |
| -1.06 | 0.06 | -1.45 | | |
| -1.16 | -0.99 | -2.38 | | |
| -1.18 | -0.99 | -2.35 | | |
| -1.43 | -1.32 | -2.4 | | |
| -8 | -4.23 | -2.83 | | |
| 2.37 | 2.39 | 0.24 | | |
| 1.39 | -1.03 | -2.41 | | |
| 1.13 | -1.25 | -2.33 | | |
| 5.43 | 2.88 | 0.72 | | |
| 2.86 | 5.12 | 3.89 | | |
| 2.75 | 2.36 | 1.19 | | |
| 2.56 | 1.24 | 0.17 | | |
| 2.44 | 0.75 | -0.25 | | |
| -1.74 | -1.73 | -0.64 | | |
| 7.53 | -2.69 | -4.84 | | |
| 5.85 | -0.71 | -2.5 | | |
| -1.42 | -6.51 | -5.24 | | |
| 1.19 | 7.9 | 5.75 | | |
| -1.34 | -1.5 | -2.97 | | |
| -1.48 | -0.29 | -1.61 | | |
| -1.56 | 0.04 | -1.21 | | |
| -1.77 | 4.8 | 3.73 | | |
| 6.5 | -0.2 | -2.35 | | |
| 4.32 | 2.1 | 0.54 | | |
| 3.4 | 1.4 | 0.18 | | |
| -1.47 | -1.42 | -0.32 | | |
| -1.71 | -1.46 | -0.13 | | |
| 9.02 | -4.56 | -6.71 | | |
| 5.26 | -3.63 | -5 | | |
| 4.38 | -5.89 | -7 | | |
| 4.27 | -2.53 | -3.61 | | |
| -1.01 | -2.72 | -1.69 | | |
| -1.25 | -0.39 | 0.95 | | |
| -2.24 | -6.35 | -4.17 | | |
| 2.81 | -3.44 | -5.59 | | |
| 2.71 | -4.6 | -6.7 | | |
| 2.13 | -0.47 | -2.22 | | |
| 1.38 | -5.27 | -6.39 | | |
| -3.2 | -1.43 | -0.42 | | |
| -3.34 | -1.94 | -0.86 | | |
| 3.06 | 0.71 | -1.44 | | |
| 2.04 | 0.95 | -0.62 | | |
| 1.82 | -0.22 | -1.62 | | |
| 1.51 | 1.12 | -0.01 | | |
| 1.35 | 0.49 | -1.66 | | |
| -1.03 | 1.96 | 0.28 | | |
| -1.04 | 2.41 | 0.75 | | |
| -1.07 | 0.8 | -0.82 | | |
| -1.07 | -1.96 | -3.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.11 | 0.32 | -1.25 | | |
| -1.13 | 0.86 | -0.68 | | |
| -1.15 | -3.01 | -4.52 | | |
| -1.15 | 4.47 | 2.96 | | |
| -1.15 | -3.26 | -4.77 | | |
| -1.16 | 5.48 | 3.99 | | |
| -1.23 | 0.79 | -0.62 | | |
| -1.38 | 2.43 | 1.18 | | |
| -1.51 | 0.1 | -1.01 | | |
| -1.55 | -4.25 | -5.33 | | |
| -7.46 | -3.16 | -1.97 | | |
| -7.55 | -2.21 | -1.01 | | |
| 1.95 | 1.74 | -0.41 | | |
| 1.7 | -1.52 | -3.47 | | |
| 1.53 | 3.18 | 1.38 | | |
| 1.24 | 1.22 | -0.28 | | |
| 1.21 | -1.94 | -3.41 | | |
| 1.15 | 1.97 | 0.58 | | |
| 1.09 | 4.29 | 2.98 | | |
| 1.02 | 0.5 | -0.71 | | |
| -1.06 | 4.26 | 3.15 | | |
| -1.09 | -0.55 | -1.61 | | |
| -1.12 | -3.37 | -4.39 | | |
| -4.61 | -0.98 | 0.04 | | |
| -4.77 | -1.67 | -0.61 | | |
| 1.41 | -3.13 | -5.29 | | |
| -1.02 | -1.06 | -2.7 | | |
| -1.15 | -0.64 | -2.1 | | |
| -1.19 | -5.34 | -6.75 | | |
| -1.28 | -1.94 | -3.24 | | |
| -1.55 | 0.73 | -0.3 | | |
| 1.55 | -0.54 | -2.68 | | |
| 1.48 | -0.39 | -2.47 | | |
| 1.09 | -1.69 | -3.33 | | |
| 1.04 | 3.25 | 1.68 | | |
| 1.02 | -1.39 | -2.93 | | |
| -1.01 | -0.89 | -2.39 | | |
| -1.02 | 2.9 | 1.42 | | |
| -1.16 | -2.29 | -3.59 | | |
| -1.18 | 3.66 | 2.39 | | |
| -1.21 | 2.08 | 0.85 | | |
| -1.28 | -1.74 | -2.89 | | |
| -1.33 | 1.5 | 0.41 | | |
| -1.38 | 1.97 | 0.92 | | |
| -1.38 | -1.82 | -2.86 | | |
| -6.52 | -1.21 | -0.01 | | |
| -9.12 | -0.44 | 1.24 | | |
| -9.94 | -1.49 | 0.32 | | |
| -12.32 | -0.88 | 1.23 | | |
| 7.02 | -7.57 | -9.72 | | |
| 4.35 | -4.99 | -6.45 | | |
| 4.07 | -6.88 | -8.24 | | |
| 3.98 | -4.46 | -5.79 | | |
| 3.23 | -3.77 | -4.8 | | |
| 3.31 | 2.79 | 0.64 | | |
| 1.55 | -1.95 | -3 | | |
| -2.72 | 1.27 | 2.29 | | |
| -2.95 | -1.86 | -0.73 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.46 | -1.58 | -0.21 | | |
| -3.58 | -4.33 | -2.91 | | |
| -4.66 | -1.06 | 0.74 | | |
| 7.74 | 2.4 | 0.26 | | |
| 6.69 | 2.16 | 0.22 | | |
| 6 | 0.4 | -1.38 | | |
| 5.24 | 1.09 | -0.5 | | |
| 4.33 | -0.98 | -2.29 | | |
| 4.28 | 1.66 | 0.37 | | |
| 3.82 | -1.98 | -3.1 | | |
| -1.32 | -0.36 | 0.85 | | |
| -1.41 | -1.79 | -0.49 | | |
| -1.74 | -0.18 | 1.42 | | |
| -1.84 | 0.14 | 1.82 | | |
| 1.66 | -0.9 | -3.04 | | |
| 1.32 | 0.48 | -1.34 | | |
| 1.32 | 0.48 | -1.34 | | |
| 1.27 | 0.13 | -1.63 | | |
| 1.15 | 0.36 | -1.26 | | |
| 1.14 | -0.69 | -2.31 | | |
| 1.11 | -0.87 | -2.43 | | |
| 1.05 | -3.47 | -4.96 | | |
| -1.03 | 0.79 | -0.59 | | |
| -1.03 | -0.66 | -2.03 | | |
| -1.04 | 1.42 | 0.06 | | |
| -1.15 | 1.39 | 0.17 | | |
| -1.25 | 0.7 | -0.39 | | |
| -1.25 | -2.23 | -3.32 | | |
| -1.27 | 2.58 | 1.51 | | |
| -1.27 | 2.58 | 1.51 | | |
| 2.82 | 1.22 | -0.92 | | |
| 1.87 | -0.67 | -2.22 | | |
| 1.45 | 0.38 | -0.8 | | |
| 1.3 | 0.9 | -0.13 | | |
| -3.53 | -0.01 | 1.16 | | |
| -4.82 | -1.38 | 0.24 | | |
| 3.43 | -3.24 | -5.38 | | |
| 1.89 | -3.5 | -4.78 | | |
| 1.6 | -4.31 | -5.35 | | |
| -2.97 | -4.64 | -3.43 | | |
| 1.57 | -0.24 | -2.38 | | |
| 1.32 | -1.69 | -3.58 | | |
| 1.24 | 1.32 | -0.48 | | |
| 1.19 | -1.37 | -3.12 | | |
| 1.18 | 0.53 | -1.19 | | |
| 1.1 | -4.86 | -6.5 | | |
| 1.03 | 6.3 | 4.76 | | |
| 1.01 | 0.33 | -1.18 | | |
| 1.01 | 1.39 | -0.11 | | |
| -1.04 | 3.87 | 2.44 | | |
| -1.08 | -4.49 | -5.87 | | |
| -1.17 | -4.99 | -6.26 | | |
| -1.25 | 1.88 | 0.71 | | |
| -8.48 | -2.12 | -0.53 | | |
| 1.61 | -0.21 | -2.35 | | |
| 1.08 | 0.03 | -1.52 | | |
| -1.12 | 3.08 | 1.8 | | |
| -1.29 | -0.54 | -1.62 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.24 | -3.56 | -5.7 | | |
| 1.01 | -2.1 | -3.95 | | |
| -1.02 | 3.56 | 1.75 | | |
| -1.08 | -1.83 | -3.55 | | |
| 2.24 | -4.34 | -6.48 | | |
| 1.71 | -3.88 | -5.63 | | |
| 1.23 | -0.2 | -1.48 | | |
| 1.19 | -0.69 | -1.91 | | |
| 1.15 | -2.89 | -4.06 | | |
| 1.07 | -5.07 | -6.14 | | |
| 1.04 | -1.85 | -2.88 | | |
| -4.81 | -3.91 | -2.62 | | |
| -4.97 | -5.67 | -4.33 | | |
| 2.82 | 4.66 | 2.52 | | |
| 1.68 | 3 | 1.61 | | |
| 1.55 | 2.05 | -0.09 | | |
| 1.19 | -3.85 | -5.6 | | |
| -1.04 | -3.83 | -5.28 | | |
| -1.04 | -0.72 | -2.17 | | |
| -1.05 | -2.24 | -3.68 | | |
| -1.06 | -3.52 | -4.93 | | |
| -1.28 | -3.97 | -5.12 | | |
| -1.33 | 1.69 | 0.59 | | |
| -5.88 | -0.83 | 0.22 | | |
| 3.7 | 4.09 | 1.95 | | |
| 2.61 | 3.19 | 1.56 | | |
| 2.32 | 5.11 | 3.65 | | |
| -2.49 | -1.44 | -0.38 | | |
| -2.73 | -1.25 | -0.05 | | |
| 9.41 | 0.35 | -1.78 | | |
| 7.31 | 2.24 | 0.47 | | |
| -1.21 | -1.59 | -0.21 | | |
| -1.24 | 3.35 | 4.76 | | |
| -1.34 | -2.9 | -1.37 | | |
| -2.79 | -3.06 | -0.48 | | |
| 9.45 | -0.51 | -2.64 | | |
| 7.61 | 0.87 | -0.96 | | |
| 6.73 | 0.89 | -0.75 | | |
| 6.54 | -0.12 | -1.72 | | |
| 6.12 | -1.19 | -2.69 | | |
| 5.31 | 2.37 | 1.06 | | |
| 5.17 | 1.89 | 0.63 | | |
| 5.03 | -1.31 | -2.53 | | |
| 5.03 | 1.64 | 0.41 | | |
| 4.88 | 2.17 | 0.99 | | |
| 4.73 | 0.44 | -0.7 | | |
| 4.64 | 0.97 | -0.14 | | |
| 4.58 | 0.83 | -0.26 | | |
| 4.56 | 1.96 | 0.88 | | |
| 4.56 | 2.41 | 1.33 | | |
| 4.43 | 1.57 | 0.53 | | |
| 4.4 | 1.39 | 0.36 | | |
| 1.08 | -3.23 | -2.23 | | |
| 1.03 | -2.73 | -1.67 | | |
| -1.16 | -1.41 | -0.08 | | |
| -2.64 | 3.27 | 5.77 | | |
| 3.58 | 4.01 | 1.88 | | |
| 2.16 | -2.52 | -3.93 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.01 | -1.54 | -2.84 | | |
| 2 | -1.24 | -2.53 | | |
| 1.73 | -2.55 | -3.63 | | |
| 1.64 | -2.81 | -3.81 | | |
| 14.09 | 0.71 | -1.43 | | |
| 13.49 | 0.08 | -1.99 | | |
| 9.26 | -1.49 | -3.01 | | |
| 8.59 | 0.23 | -1.19 | | |
| 7.59 | 0.89 | -0.36 | | |
| 7.6 | -0.52 | -1.77 | | |
| 7.52 | 0.83 | -0.39 | | |
| 7.22 | -2.08 | -3.25 | | |
| 7.19 | -2.1 | -3.27 | | |
| 7.11 | -0.98 | -2.12 | | |
| 6.78 | -0.1 | -1.18 | | |
| 6.65 | 0.42 | -0.63 | | |
| 6.51 | -2.1 | -3.12 | | |
| 1.59 | -3.67 | -2.65 | | |
| 1.58 | -0.97 | 0.06 | | |
| 1.55 | 0.78 | 1.83 | | |
| 1.46 | -2.53 | -1.4 | | |
| 1.42 | 0.57 | 1.74 | | |
| 1.41 | -4.68 | -3.5 | | |
| 1.41 | -3.11 | -1.92 | | |
| 1.39 | 1.19 | 2.39 | | |
| 1.38 | 1.99 | 3.21 | | |
| 1.32 | -5.04 | -3.76 | | |
| 1.29 | 6.05 | 7.38 | | |
| 1.26 | -2.31 | -0.95 | | |
| 1.2 | -2.72 | -1.3 | | |
| 1.2 | -3.18 | -1.76 | | |
| 1.19 | -4.8 | -3.37 | | |
| 1.18 | 0.09 | 1.53 | | |
| 1.17 | -1.32 | 0.14 | | |
| 1.12 | -4.34 | -2.82 | | |
| 1.11 | -3.64 | -2.1 | | |
| 1.1 | -2.96 | -1.41 | | |
| 1.02 | -4.22 | -2.56 | | |
| -1.1 | -4.2 | -2.37 | | |
| -1.18 | 0.65 | 2.57 | | |
| -1.28 | -2.88 | -0.83 | | |
| -1.57 | -4.97 | -2.64 | | |
| -3.4 | -3.95 | -0.5 | | |
| 2.53 | 3.03 | 0.9 | | |
| 1.36 | -0.66 | -1.9 | | |
| 1.35 | 0.43 | -0.81 | | |
| 1.24 | 1.3 | 0.2 | | |
| 4.68 | -3.62 | -5.75 | | |
| 2.41 | -4.75 | -5.93 | | |
| -1.93 | -4.29 | -3.24 | | |
| 3.68 | -2.34 | -4.47 | | |
| 1.93 | -4.13 | -5.34 | | |
| 1.82 | -1.57 | -2.69 | | |
| 1.76 | -5.26 | -6.32 | | |
| 1.61 | -0.77 | -2.91 | | |
| 1.24 | -1.55 | -3.31 | | |
| 1.11 | -3.94 | -5.54 | | |
| 1.06 | 1.09 | -0.44 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.04 | -1.49 | -3 | | |
| -1.01 | -3.21 | -4.65 | | |
| -1.08 | -1.99 | -3.33 | | |
| -1.21 | 0.63 | -0.53 | | |
| -1.28 | 0.8 | -0.29 | | |
| -1.31 | 1.16 | 0.1 | | |
| 3.14 | 0.39 | -1.74 | | |
| 1.9 | 1.25 | -0.16 | | |
| 1.48 | 2.34 | 1.29 | | |
| 1.47 | -0.3 | -1.34 | | |
| 1.45 | -0.32 | -1.34 | | |
| -3.03 | -0.91 | 0.2 | | |
| -3.47 | -1.98 | -0.67 | | |
| -3.5 | -2.03 | -0.71 | | |
| -3.68 | -0.26 | 1.13 | | |
| -3.83 | -1.35 | 0.1 | | |
| -3.92 | -1.52 | -0.03 | | |
| -3.98 | -0.75 | 0.76 | | |
| 1.47 | -2.32 | -4.45 | | |
| -18.57 | -5.71 | -3.06 | | |
| 1.25 | -2.71 | -4.84 | | |
| 1.11 | -3 | -4.95 | | |
| 1.06 | -3.2 | -5.1 | | |
| -1.07 | -3.25 | -4.96 | | |
| -1.09 | -2.53 | -4.22 | | |
| -1.17 | 0.9 | -0.69 | | |
| -1.37 | -2.87 | -4.22 | | |
| -1.38 | -1.45 | -2.79 | | |
| -1.42 | -1.71 | -3.01 | | |
| -1.45 | -3.4 | -4.68 | | |
| -1.46 | -0.35 | -1.61 | | |
| -1.5 | -0.5 | -1.72 | | |
| -1.53 | -0.81 | -2.01 | | |
| -1.73 | -2 | -3.02 | | |
| -8.34 | -2.36 | -1.1 | | |
| 3.63 | -2.91 | -5.04 | | |
| -3.32 | -4.42 | -2.95 | | |
| 4.71 | -0.94 | -3.07 | | |
| -1.86 | -3.09 | -2.08 | | |
| 2.48 | -1.68 | -3.8 | | |
| 1.67 | 1.11 | -0.45 | | |
| 1.5 | -1.9 | -3.3 | | |
| 1.42 | -0.38 | -1.7 | | |
| 1.21 | -3.74 | -4.83 | | |
| 1.19 | -2.26 | -3.33 | | |
| 1.14 | 1.44 | 0.44 | | |
| -3.77 | -2.46 | -1.36 | | |
| 2.29 | 2.46 | 0.33 | | |
| 1.8 | -2.12 | -3.89 | | |
| 1.67 | -2.68 | -4.34 | | |
| 1.52 | -0.72 | -2.25 | | |
| 1.37 | 2.26 | 0.88 | | |
| 1.37 | -1.26 | -2.64 | | |
| 1.14 | 1.99 | 0.87 | | |
| 1.13 | 0.36 | -0.73 | | |
| 1.08 | -1.84 | -2.88 | | |
| -4.36 | -3.52 | -2.32 | | |
| -6.18 | -2.24 | -0.54 | | |

| | | | | |
|--------|-------|-------|--|--|
| -8.77 | -3.3 | -1.1 | | |
| 9.51 | 0.48 | -1.64 | | |
| 5.86 | 0.03 | -1.4 | | |
| 4.91 | -1.25 | -2.41 | | |
| 1.01 | -1.36 | -0.25 | | |
| 7.88 | -1 | -3.13 | | |
| -1.31 | -2.24 | -0.99 | | |
| -2.01 | -2.48 | -0.62 | | |
| -2.15 | -2.32 | -0.36 | | |
| 1.77 | -0.88 | -3 | | |
| 1.36 | -1.94 | -3.69 | | |
| 1.27 | -0.94 | -2.59 | | |
| 1.07 | -0.62 | -2.01 | | |
| -1.1 | 1.24 | 0.09 | | |
| -1.12 | 1.44 | 0.31 | | |
| -1.14 | 2.07 | 0.96 | | |
| -5.65 | -2.72 | -1.52 | | |
| -5.88 | 0.73 | 1.98 | | |
| 2.86 | -3.82 | -5.95 | | |
| 2.03 | -6.63 | -8.26 | | |
| 1.59 | -5.13 | -6.4 | | |
| 1.34 | -1.92 | -2.95 | | |
| 1.34 | -3.89 | -4.92 | | |
| 5.98 | 2.1 | -0.02 | | |
| 3.64 | -0.6 | -2.01 | | |
| 3.12 | 0.96 | -0.22 | | |
| -1.45 | 0.88 | 1.88 | | |
| -1.5 | -0.29 | 0.76 | | |
| -1.52 | -0.73 | 0.33 | | |
| -1.56 | -1.57 | -0.47 | | |
| -1.56 | -2.77 | -1.67 | | |
| -1.74 | 2.07 | 3.33 | | |
| -1.87 | 1.04 | 2.4 | | |
| -2.28 | -0.96 | 0.69 | | |
| -2.52 | -0.68 | 1.11 | | |
| -2.54 | -1.65 | 0.15 | | |
| 3.07 | -2.74 | -4.86 | | |
| -3.21 | -4.87 | -3.69 | | |
| -4.31 | -4.55 | -2.95 | | |
| 3.03 | 5.88 | 3.76 | | |
| 2.04 | 4.8 | 3.25 | | |
| 1.49 | -0.24 | -1.34 | | |
| 1.09 | -0.27 | -2.38 | | |
| 1.04 | 3.28 | 1.23 | | |
| -1.11 | -0.98 | -2.82 | | |
| -1.17 | -0.69 | -2.46 | | |
| -1.77 | 0.25 | -0.92 | | |
| -1.84 | -2.14 | -3.25 | | |
| -1.85 | 0.44 | -0.66 | | |
| -8.38 | -0.9 | 0.18 | | |
| -8.53 | -1.27 | -0.17 | | |
| -8.73 | 0.04 | 1.17 | | |
| -9.75 | -0.52 | 0.77 | | |
| -17.04 | -0.47 | 1.63 | | |
| 1.75 | -3.43 | -5.55 | | |
| 1.31 | -5.81 | -7.51 | | |
| 1.2 | -4.77 | -6.34 | | |
| 1.16 | -5.72 | -7.24 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.16 | -6.48 | -8 | | |
| 1.03 | -5.28 | -6.63 | | |
| -1.01 | -4.03 | -5.32 | | |
| -1.05 | 1.87 | 0.63 | | |
| -1.07 | -0.25 | -1.47 | | |
| -1.12 | -6.38 | -7.53 | | |
| -1.16 | -0.32 | -1.41 | | |
| -1.17 | -5.01 | -6.09 | | |
| -1.2 | -1.9 | -2.94 | | |
| -1.24 | -7.14 | -8.14 | | |
| 10.58 | 0.14 | -1.97 | | |
| 1.18 | -5.29 | -4.24 | | |
| 1.19 | -2.06 | -1.02 | | |
| 1.18 | -4.47 | -3.42 | | |
| 1.16 | -1.39 | -0.32 | | |
| 1.1 | -4.08 | -2.93 | | |
| 1.09 | -1.4 | -0.24 | | |
| 1.04 | -2.96 | -1.72 | | |
| 1.02 | -3.85 | -2.59 | | |
| 1.01 | -1.96 | -0.69 | | |
| 1.01 | -2.51 | -1.23 | | |
| -1.01 | -1.38 | -0.08 | | |
| -1.02 | -2 | -0.69 | | |
| -1.04 | -4.83 | -3.49 | | |
| -1.22 | -4.85 | -3.28 | | |
| -1.25 | -6.53 | -4.91 | | |
| -1.29 | -3.03 | -1.37 | | |
| -1.36 | -4.75 | -3.02 | | |
| -1.46 | -6.34 | -4.51 | | |
| -1.46 | 1 | 2.83 | | |
| -1.74 | -4.7 | -2.62 | | |
| 158.5 | 0.12 | -1.99 | | |
| 147.14 | 0.53 | -1.47 | | |
| 87.53 | 1.85 | 0.6 | | |
| 83.28 | 0.2 | -0.98 | | |
| 82.8 | 0.96 | -0.22 | | |
| 9.35 | -2.04 | -0.07 | | |
| 3 | -0.94 | 2.67 | | |
| 1.37 | -4.35 | 0.38 | | |
| 1.11 | -4.19 | 0.86 | | |
| 2.16 | -2.05 | -4.17 | | |
| 2.15 | -2.16 | -4.27 | | |
| 1.98 | 1.53 | -0.46 | | |
| 1.86 | -2.51 | -4.4 | | |
| 1.81 | -1.77 | -3.63 | | |
| 1.81 | -1.85 | -3.71 | | |
| 1.73 | 0.01 | -1.78 | | |
| 1.68 | 3.65 | 1.9 | | |
| 1.67 | 0.57 | -1.18 | | |
| 1.63 | -0.31 | -2.02 | | |
| 1.55 | -1.16 | -2.8 | | |
| 1.42 | -1.24 | -2.75 | | |
| 1.35 | 1.36 | -0.08 | | |
| 1.3 | -2.62 | -4 | | |
| 1.19 | -1.33 | -2.59 | | |
| 1.19 | -2.31 | -3.57 | | |
| 1.16 | -0.52 | -1.74 | | |
| 1.16 | -2.58 | -3.8 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.15 | -0.83 | -2.03 | | |
| 1.12 | -1.54 | -2.71 | | |
| 1.11 | 0.77 | -0.39 | | |
| 1.12 | -4.05 | -5.22 | | |
| 1.1 | 0.03 | -1.11 | | |
| 1.09 | -0.91 | -2.04 | | |
| 1.09 | 0.02 | -1.11 | | |
| 1.07 | -3.44 | -4.55 | | |
| 1.07 | -3.35 | -4.44 | | |
| 1.06 | -1.7 | -2.79 | | |
| 1.05 | -0.05 | -1.13 | | |
| 1.05 | 2.73 | 1.66 | | |
| 1.03 | -4.16 | -5.22 | | |
| 1.04 | -1.08 | -2.13 | | |
| 1.01 | -1.39 | -2.41 | | |
| 1.01 | -1.79 | -2.8 | | |
| 1.01 | -2.58 | -3.59 | | |
| -5.04 | -3.92 | -2.6 | | |
| -7.41 | -3.47 | -1.58 | | |
| -1.05 | -2.92 | -5.04 | | |
| -1.17 | 2.58 | 0.61 | | |
| -1.23 | -2.49 | -4.38 | | |
| -1.41 | -4.26 | -5.95 | | |
| -1.5 | -5.23 | -6.83 | | |
| -1.65 | -1.02 | -2.48 | | |
| -1.95 | -4.37 | -5.58 | | |
| -2.1 | -2.41 | -3.52 | | |
| -10.97 | -2.24 | -0.97 | | |
| -14.59 | -2.51 | -0.82 | | |
| 1.62 | 2.1 | -0.01 | | |
| 1.25 | -5.09 | -6.82 | | |
| 1.19 | 2.72 | 1.06 | | |
| 1.1 | -4.87 | -6.41 | | |
| 1.05 | -0.17 | -1.65 | | |
| 1.01 | -2.12 | -3.55 | | |
| -1.01 | -1.47 | -2.86 | | |
| -1.12 | -6.74 | -7.99 | | |
| -1.18 | -2.57 | -3.75 | | |
| -1.18 | -4.12 | -5.3 | | |
| -1.24 | -3.24 | -4.34 | | |
| -1.27 | -1.52 | -2.59 | | |
| -1.29 | -6.64 | -7.69 | | |
| -1.32 | -2.36 | -3.37 | | |
| -1.34 | -6.1 | -7.09 | | |
| -5.34 | -5.66 | -4.66 | | |
| 15.75 | -3.18 | -5.3 | | |
| 15.02 | -4.01 | -6.06 | | |
| 13.45 | -3.03 | -4.91 | | |
| 7.88 | -4.53 | -5.64 | | |
| -1.29 | 0.93 | 3.16 | | |
| 3.84 | -4.17 | -6.28 | | |
| -2.4 | -4.34 | -3.25 | | |
| 1.94 | -1.58 | -3.69 | | |
| 1.52 | -0.65 | -2.41 | | |
| 1.27 | 0.16 | -1.33 | | |
| 1.02 | -1.49 | -2.68 | | |
| -1.07 | 0.45 | -0.6 | | |
| 6.17 | -3.23 | -5.34 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.94 | -1.05 | -2.84 | | |
| 3.99 | -4.89 | -6.37 | | |
| 3.24 | -1.41 | -2.59 | | |
| 3.25 | -0.03 | -1.21 | | |
| 3.22 | -4.15 | -5.32 | | |
| 3.2 | -2.31 | -3.47 | | |
| 2.98 | -0.05 | -1.11 | | |
| -1.51 | -3.38 | -2.27 | | |
| 2.65 | 1.24 | -0.87 | | |
| 2.03 | -0.93 | -2.66 | | |
| 1.71 | 1.14 | -0.34 | | |
| 1.41 | 1.64 | 0.44 | | |
| 1.38 | -0.89 | -2.07 | | |
| -3.45 | -0.74 | 0.34 | | |
| 17.35 | -0.3 | -2.4 | | |
| 11.21 | 0.29 | -1.19 | | |
| 10.68 | 0.81 | -0.59 | | |
| 10.12 | 1.07 | -0.26 | | |
| 8.2 | -0.08 | -1.11 | | |
| 1.77 | 2.61 | 3.8 | | |
| 1.68 | 1.24 | 2.5 | | |
| 1.61 | 2.11 | 3.44 | | |
| 1.25 | 0.01 | 1.69 | | |
| 1.16 | -2.77 | -0.98 | | |
| 1.15 | -2.58 | -0.78 | | |
| 1.12 | -1.55 | 0.29 | | |
| -1.16 | -1.77 | 0.46 | | |
| -1.22 | -4.38 | -2.08 | | |
| 5.54 | 1.11 | -0.99 | | |
| 3.14 | -0.08 | -1.37 | | |
| 2.79 | -1.03 | -2.15 | | |
| -1.83 | -0.59 | 0.64 | | |
| 2.97 | 3.83 | 1.73 | | |
| 1.84 | 0.28 | -1.14 | | |
| -3.83 | -0.53 | 0.87 | | |
| 2.41 | -2.6 | -4.7 | | |
| 1.63 | -2.52 | -4.06 | | |
| 1.59 | -1.6 | -3.11 | | |
| 1.46 | -0.94 | -2.33 | | |
| 1.41 | -0.34 | -1.67 | | |
| 1.4 | -0.5 | -1.82 | | |
| 1.4 | -1.24 | -2.56 | | |
| 1.36 | -2.55 | -3.82 | | |
| 1.18 | -1.77 | -2.84 | | |
| 1.12 | -0.08 | -1.08 | | |
| 2.02 | 1.65 | -0.46 | | |
| 1.99 | 1.59 | -0.49 | | |
| 1.9 | 0.55 | -1.47 | | |
| 1.89 | -1.61 | -3.62 | | |
| 1.81 | 0.58 | -1.37 | | |
| 1.61 | 1.98 | 0.2 | | |
| 1.48 | 1.55 | -0.11 | | |
| 1.46 | 1.33 | -0.31 | | |
| 1.44 | -0.99 | -2.61 | | |
| 1.41 | -2.26 | -3.85 | | |
| 1.4 | -0.21 | -1.79 | | |
| 1.37 | 0.7 | -0.84 | | |
| 1.32 | 0.36 | -1.14 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.32 | 3.59 | 2.09 | | |
| 1.32 | 3.17 | 1.68 | | |
| 1.28 | 2.97 | 1.52 | | |
| 1.22 | 1.46 | 0.08 | | |
| 1.21 | 0.4 | -0.97 | | |
| 1.21 | -0.36 | -1.72 | | |
| 1.2 | 0.32 | -1.04 | | |
| 1.19 | 0.18 | -1.17 | | |
| 1.19 | -0.64 | -1.98 | | |
| 1.18 | 0.62 | -0.71 | | |
| 1.17 | 0.46 | -0.86 | | |
| 1.17 | 4.77 | 3.45 | | |
| 1.16 | 1.54 | 0.23 | | |
| 1.16 | 3.39 | 2.08 | | |
| 1.14 | 4.45 | 3.17 | | |
| 1.13 | 1.14 | -0.13 | | |
| 1.12 | 6.11 | 4.85 | | |
| 1.12 | 2.34 | 1.09 | | |
| 1.12 | -0.28 | -1.53 | | |
| 1.11 | -2.32 | -3.56 | | |
| 1.1 | -0.6 | -1.84 | | |
| 1.1 | 1.79 | 0.56 | | |
| 1.08 | 1.74 | 0.53 | | |
| 1.08 | 3.81 | 2.61 | | |
| 1.08 | -0.07 | -1.27 | | |
| 1.07 | 4.13 | 2.93 | | |
| 1.06 | 5.11 | 3.93 | | |
| 1.06 | 3.98 | 2.8 | | |
| 1.05 | 4.18 | 3.01 | | |
| 1.05 | 1.3 | 0.14 | | |
| 1.02 | -2.1 | -3.21 | | |
| 1.02 | 5.97 | 4.85 | | |
| 1.01 | 4.47 | 3.36 | | |
| 1.01 | 2.96 | 1.85 | | |
| -1.01 | -1.82 | -2.9 | | |
| -1.01 | 3.28 | 2.21 | | |
| -1.01 | 6.75 | 5.68 | | |
| -1.03 | 3.28 | 2.23 | | |
| -1.03 | 1.87 | 0.82 | | |
| -1.04 | 4.82 | 3.78 | | |
| -1.05 | 1.1 | 0.07 | | |
| -1.06 | 5.07 | 4.06 | | |
| -1.06 | 7.17 | 6.16 | | |
| -4.28 | -0.45 | 0.56 | | |
| -7.8 | -1.69 | 0.18 | | |
| -35.58 | -2.16 | 1.9 | | |
| 2.18 | -2.21 | -4.31 | | |
| 2.16 | -0.15 | -2.24 | | |
| 2.11 | 0 | -2.06 | | |
| 2.04 | -0.87 | -2.87 | | |
| 1.95 | -5 | -6.95 | | |
| 1.72 | -1.24 | -2.99 | | |
| 1.68 | -0.82 | -2.55 | | |
| 1.67 | -4.95 | -6.67 | | |
| 1.57 | -3.85 | -5.47 | | |
| 1.52 | -4.28 | -5.86 | | |
| 1.44 | -1.47 | -2.98 | | |
| 1.43 | -4.01 | -5.5 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.39 | -1.88 | -3.34 | | |
| 1.31 | -2.51 | -3.88 | | |
| 1.2 | -4.18 | -5.42 | | |
| 1.19 | 0.12 | -1.11 | | |
| 1.16 | -4.23 | -5.43 | | |
| 1.85 | -1.8 | -3.9 | | |
| 1.37 | 0.54 | -1.13 | | |
| 1.33 | -1.84 | -3.47 | | |
| 1.25 | 0.53 | -1.01 | | |
| 1.25 | -3.13 | -4.67 | | |
| 1.22 | -2.82 | -4.32 | | |
| 1.15 | 0.65 | -0.78 | | |
| 1.12 | -0.1 | -1.48 | | |
| 1.1 | -0.53 | -1.88 | | |
| -1.01 | -2.72 | -3.92 | | |
| -1.04 | 0.79 | -0.37 | | |
| -1.11 | 1.32 | 0.25 | | |
| -6.17 | -4.27 | -2.86 | | |
| -7.33 | -4.93 | -3.27 | | |
| 4.39 | 1.3 | -0.81 | | |
| 2.18 | -0.74 | -1.83 | | |
| 2.09 | 0.76 | -0.28 | | |
| 2.07 | -3.96 | -6.07 | | |
| 1.14 | -1.31 | -2.56 | | |
| 1.03 | 2.36 | 1.26 | | |
| 1.02 | 3.42 | 2.34 | | |
| -1 | 2.42 | 1.37 | | |
| -6.67 | 0.07 | 1.75 | | |
| -8.34 | -2.27 | -0.26 | | |
| 2.1 | -2.61 | -4.71 | | |
| 1.83 | -1.02 | -2.92 | | |
| 1.06 | -2.99 | -4.1 | | |
| -5.44 | -1.98 | -0.56 | | |
| 1.78 | -2.57 | -4.67 | | |
| 1.78 | -2.74 | -4.83 | | |
| 1.21 | -3.47 | -5.01 | | |
| 1.05 | -0.49 | -1.83 | | |
| 1.03 | -3.03 | -4.34 | | |
| -1.04 | 1 | -0.21 | | |
| -12.05 | -5.61 | -3.28 | | |
| 2.36 | -3.11 | -5.21 | | |
| 2.02 | -1.7 | -3.58 | | |
| 1.79 | -0.3 | -2 | | |
| 1.68 | -4.52 | -6.13 | | |
| 1.62 | 0.59 | -0.98 | | |
| 1.59 | -1.96 | -3.49 | | |
| 1.52 | -2.68 | -4.15 | | |
| 1.48 | -4.84 | -6.27 | | |
| 1.47 | -1.84 | -3.27 | | |
| 1.4 | -0.11 | -1.46 | | |
| 1.29 | -1.46 | -2.69 | | |
| 1.28 | -0.98 | -2.2 | | |
| 1.28 | 0.01 | -1.21 | | |
| 1.26 | -2.98 | -4.18 | | |
| 1.15 | 2.67 | 1.61 | | |
| 1.12 | -3.28 | -4.31 | | |
| 12.29 | 1.29 | -0.81 | | |
| 7.17 | 0.78 | -0.54 | | |

| | | | | |
|-------|-------|-------|--|--|
| 5.99 | -0.18 | -1.24 | | |
| 1.14 | -2.08 | -0.75 | | |
| 1.06 | -2.4 | -0.96 | | |
| 1.01 | 3.02 | 4.51 | | |
| -1.01 | 2.27 | 3.81 | | |
| -1.07 | 1.76 | 3.37 | | |
| -1.18 | -1.36 | 0.4 | | |
| -1.19 | -2.34 | -0.57 | | |
| -1.25 | -1.82 | 0.02 | | |
| -1.27 | 0.7 | 2.57 | | |
| -1.73 | -3.26 | -0.96 | | |
| 2.73 | -2.99 | -5.09 | | |
| 2.09 | 2.74 | 1.03 | | |
| 1.81 | 1.29 | -0.22 | | |
| 1.48 | 3.98 | 2.76 | | |
| 1.45 | -0.95 | -2.14 | | |
| 1.42 | 2.21 | 1.05 | | |
| 1.36 | -1.12 | -2.22 | | |
| 1.65 | 3.06 | 0.96 | | |
| 1.26 | -2.75 | -4.46 | | |
| 1.17 | -2.14 | -3.74 | | |
| 1.09 | -0.04 | -1.54 | | |
| 1.08 | -1.32 | -2.81 | | |
| -1.01 | -2.4 | -3.77 | | |
| -1.03 | -4.53 | -5.86 | | |
| -1.1 | -0.07 | -1.31 | | |
| -1.13 | -2.33 | -3.53 | | |
| -1.17 | -5.55 | -6.7 | | |
| -1.21 | -1.52 | -2.63 | | |
| -5.69 | -3.33 | -2.2 | | |
| 2.72 | 0.47 | -1.63 | | |
| 1.93 | -0.41 | -2.01 | | |
| 1.53 | -2.24 | -3.51 | | |
| 1.31 | 2.05 | 1 | | |
| 1.31 | 1.99 | 0.94 | | |
| 1.29 | -2.09 | -3.11 | | |
| -3.36 | -3.27 | -2.18 | | |
| 1.93 | -1.37 | -3.47 | | |
| 1.63 | -0.41 | -2.27 | | |
| 1.39 | 4.66 | 3.03 | | |
| 1.23 | -2.26 | -3.71 | | |
| 1.12 | 3.48 | 2.16 | | |
| 1.1 | -3.78 | -5.07 | | |
| 1.09 | -0.83 | -2.1 | | |
| 1.05 | -1.81 | -3.03 | | |
| 1.03 | 1.98 | 0.79 | | |
| -1 | 1.79 | 0.64 | | |
| -1.01 | 0.74 | -0.4 | | |
| -1.03 | 1.18 | 0.08 | | |
| -1.07 | 2.77 | 1.71 | | |
| -1.08 | -1.24 | -2.29 | | |
| -1.09 | -1.05 | -2.09 | | |
| -4.77 | -2.23 | -1.13 | | |
| -6.16 | -0.51 | 0.96 | | |
| -7.55 | -2.65 | -0.89 | | |
| 5.88 | 2.26 | 0.17 | | |
| 5.31 | 2.5 | 0.55 | | |
| 5.09 | 1.83 | -0.05 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.79 | 1.73 | -0.07 | | |
| -1.5 | -3.48 | -2.44 | | |
| -1.58 | -2.8 | -1.67 | | |
| -1.96 | -3.57 | -2.14 | | |
| 2.02 | -3.99 | -6.09 | | |
| 1.9 | -2.08 | -4.09 | | |
| 1.81 | -4.92 | -6.86 | | |
| 1.74 | -4.16 | -6.04 | | |
| 1.53 | -1.29 | -2.99 | | |
| 1.46 | -0.63 | -2.26 | | |
| 1.41 | -4.14 | -5.72 | | |
| 1.35 | -3.38 | -4.9 | | |
| 1.34 | -1.95 | -3.46 | | |
| 1.19 | -0.25 | -1.58 | | |
| 1.11 | -2.98 | -4.21 | | |
| 1.08 | -2.78 | -3.97 | | |
| 1.06 | -0.04 | -1.21 | | |
| 1.03 | -2.78 | -3.91 | | |
| 1.01 | 0.31 | -0.79 | | |
| 1 | -6.35 | -7.43 | | |
| -1.01 | 0.56 | -0.51 | | |
| -1.02 | 4.15 | 3.09 | | |
| -1.06 | 1.82 | 0.82 | | |
| -4.37 | -3.69 | -2.65 | | |
| -5.44 | -4.24 | -2.88 | | |
| 1.55 | 2.49 | 0.39 | | |
| 1.42 | -0.02 | -1.99 | | |
| 1.32 | 1.4 | -0.46 | | |
| 1.2 | 5.28 | 3.55 | | |
| 1.06 | 4.2 | 2.64 | | |
| -1.01 | -3.01 | -4.47 | | |
| -1.29 | 0.78 | -0.32 | | |
| -1.32 | -0.71 | -1.77 | | |
| -1.38 | 2.42 | 1.42 | | |
| 1.85 | -1.13 | -3.23 | | |
| 1.63 | -0.7 | -2.61 | | |
| 1.47 | -1.05 | -2.81 | | |
| -1.05 | -1.25 | -2.38 | | |
| -1.14 | -1.58 | -2.59 | | |
| -5.77 | 0.02 | 1.35 | | |
| -5.9 | -1.01 | 0.34 | | |
| -7.02 | -1 | 0.6 | | |
| 2.26 | 0.04 | -2.06 | | |
| 1.29 | 2.61 | 1.32 | | |
| 1.21 | 0.49 | -0.71 | | |
| 1.06 | -1.72 | -2.72 | | |
| -3.77 | -2.14 | -1.14 | | |
| -4.55 | -0.38 | 0.89 | | |
| 1.68 | 0.69 | -1.4 | | |
| 1.02 | -0.45 | -1.83 | | |
| -1 | -0.77 | -2.11 | | |
| -1.15 | 3.27 | 2.12 | | |
| -1.16 | -1.14 | -2.28 | | |
| 2.59 | 0.04 | -2.05 | | |
| 1.48 | -1.02 | -2.31 | | |
| 1.38 | 1.27 | 0.09 | | |
| -3.79 | -1.26 | -0.05 | | |
| -4.25 | -0.18 | 1.19 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.81 | -1.02 | 0.53 | | |
| -5.04 | 0.63 | 2.24 | | |
| 5.76 | -2.85 | -4.94 | | |
| 3.02 | -5.53 | -6.69 | | |
| 2.97 | -6.52 | -7.65 | | |
| 2.79 | -2.61 | -3.66 | | |
| 2.93 | -1.19 | -3.28 | | |
| 2.01 | -1.42 | -2.97 | | |
| 1.39 | 3.49 | 2.47 | | |
| -3.03 | -4.72 | -3.66 | | |
| -3.08 | -2.95 | -1.86 | | |
| -3.14 | -0.28 | 0.83 | | |
| -3.21 | -3.97 | -2.82 | | |
| -3.95 | -3.41 | -1.96 | | |
| -5.07 | -3.95 | -2.14 | | |
| 3.07 | -0.54 | -2.62 | | |
| 2 | -2.33 | -3.8 | | |
| 1.47 | 1.47 | 0.45 | | |
| -2.9 | -1.93 | -0.86 | | |
| 3.07 | -2.14 | -4.22 | | |
| 2.48 | -4.34 | -6.12 | | |
| 1.64 | -1.21 | -2.39 | | |
| 1.64 | -0.96 | -2.13 | | |
| 1.61 | 1.06 | -0.09 | | |
| 1.48 | 1.2 | 0.16 | | |
| -5.5 | -5.25 | -3.25 | | |
| 11.74 | 1.68 | -0.4 | | |
| 11.62 | 1.95 | -0.11 | | |
| 10.59 | 0.3 | -1.63 | | |
| 8.01 | 0.33 | -1.2 | | |
| 7.29 | 0.29 | -1.1 | | |
| 6.58 | 2.18 | 0.94 | | |
| 6.23 | -0.4 | -1.56 | | |
| 1.28 | -2.19 | -1.08 | | |
| 1.28 | -0.62 | 0.49 | | |
| 1.21 | -1.41 | -0.21 | | |
| 1.11 | -0.84 | 0.48 | | |
| 1 | -0.3 | 1.17 | | |
| -1.02 | -2.52 | -1.02 | | |
| -1.16 | -2.17 | -0.48 | | |
| -1.3 | -1.42 | 0.44 | | |
| -1.41 | -3.01 | -1.04 | | |
| 1.39 | -1.99 | -4.07 | | |
| 1.01 | -0.75 | -2.37 | | |
| -1.12 | -2.14 | -3.59 | | |
| -1.21 | 1.37 | 0.04 | | |
| -1.3 | -1.85 | -3.07 | | |
| -6.2 | -0.2 | 0.83 | | |
| 1.36 | -3.85 | -5.93 | | |
| 1.31 | -4.85 | -6.87 | | |
| 1.1 | -3.41 | -5.19 | | |
| 1.02 | -1.06 | -2.74 | | |
| 1.01 | -2.54 | -4.19 | | |
| -1.03 | -0.24 | -1.83 | | |
| -1.11 | 4.61 | 3.12 | | |
| -1.2 | -2.72 | -4.1 | | |
| -1.2 | -5.6 | -6.98 | | |
| -1.23 | -4.88 | -6.22 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.29 | -4.01 | -5.28 | | |
| -1.29 | -1.32 | -2.59 | | |
| -1.29 | -2.47 | -3.73 | | |
| -1.32 | -4.24 | -5.48 | | |
| -1.49 | 0.7 | -0.36 | | |
| -1.55 | -4.59 | -5.6 | | |
| 1.68 | -2.13 | -4.21 | | |
| -1.1 | 0.19 | -1.01 | | |
| -5.22 | -3.23 | -2.18 | | |
| -5.71 | -2.22 | -1.04 | | |
| -6.52 | -3.46 | -2.09 | | |
| -6.87 | -3.48 | -2.04 | | |
| -12.15 | -6.31 | -4.04 | | |
| -13.04 | -4.37 | -1.99 | | |
| -15.02 | -5.82 | -3.24 | | |
| 2.49 | -0.91 | -2.99 | | |
| 1.79 | 1.79 | 0.19 | | |
| 1.2 | -0.16 | -1.19 | | |
| 1.61 | -1.72 | -3.8 | | |
| 1.34 | 2.57 | 0.75 | | |
| 1.29 | 0.24 | -1.51 | | |
| 1.28 | 3.06 | 1.32 | | |
| 1.11 | -0.25 | -1.8 | | |
| 1.09 | 3.06 | 1.54 | | |
| 1.05 | 2.1 | 0.63 | | |
| 1 | 1.75 | 0.35 | | |
| -1.07 | 1.87 | 0.58 | | |
| -1.15 | 2.1 | 0.91 | | |
| -1.25 | -2.51 | -3.58 | | |
| -1.27 | -0.92 | -1.97 | | |
| -5.28 | -1.64 | -0.63 | | |
| -7 | -1.86 | -0.45 | | |
| 3.26 | -3.33 | -5.41 | | |
| 1.93 | 0.76 | -0.56 | | |
| 1.91 | -0.6 | -1.9 | | |
| 1.58 | -3.54 | -4.58 | | |
| 1.55 | -0.09 | -1.09 | | |
| -2.66 | -1.26 | -0.22 | | |
| -2.96 | -2.63 | -1.43 | | |
| 1.31 | 0.54 | -1.54 | | |
| 1.13 | 1.71 | -0.15 | | |
| -1.1 | 4.45 | 2.9 | | |
| -1.14 | -2.03 | -3.53 | | |
| -1.17 | -0.6 | -2.06 | | |
| -1.2 | -0.8 | -2.22 | | |
| -1.35 | 1.42 | 0.17 | | |
| -1.53 | -2.66 | -3.74 | | |
| -6.51 | -0.77 | 0.25 | | |
| -6.66 | -4.72 | -3.67 | | |
| 3.01 | -4.16 | -6.24 | | |
| 1.84 | -5.46 | -6.82 | | |
| 1.83 | -1.68 | -3.04 | | |
| 1.75 | -1.58 | -2.87 | | |
| 1.53 | -3.35 | -4.45 | | |
| -4.45 | -5.23 | -3.56 | | |
| 1.22 | 0.7 | -1.38 | | |
| 1.04 | 3.52 | 1.68 | | |
| -9.55 | -1.51 | -0.04 | | |

| | | | | |
|--------|-------|-------|--|--|
| -10.15 | -0.55 | 1.01 | | |
| 1.84 | 0 | -2.08 | | |
| 1.27 | 3.22 | 1.68 | | |
| 1.01 | 4.08 | 2.87 | | |
| -1.02 | 0.09 | -1.09 | | |
| -1.03 | 4.52 | 3.36 | | |
| -1.04 | -1.22 | -2.36 | | |
| -1.06 | 2.87 | 1.76 | | |
| 161.78 | 1.45 | -0.62 | | |
| 18.61 | -1.85 | -0.81 | | |
| 7.36 | -2.06 | 0.32 | | |
| 3.4 | -3.05 | 0.44 | | |
| 1.07 | -5.72 | -0.57 | | |
| 6.7 | -1.1 | -3.18 | | |
| 6.2 | -1.11 | -3.08 | | |
| 5.32 | 1.26 | -0.48 | | |
| 5.25 | -1.74 | -3.46 | | |
| 5.13 | 1.66 | -0.03 | | |
| 5.12 | -1.83 | -3.51 | | |
| 4.38 | 1.97 | 0.51 | | |
| 3.97 | -1.45 | -2.78 | | |
| 3.47 | 1.21 | 0.09 | | |
| 3.46 | 0.25 | -0.88 | | |
| -1.26 | -0.42 | 0.58 | | |
| -1.28 | 2.59 | 3.61 | | |
| -1.45 | -1.16 | 0.04 | | |
| 3.44 | -5.04 | -7.12 | | |
| 1.8 | -2.28 | -3.42 | | |
| -2.58 | -6.85 | -5.78 | | |
| -3.72 | -4.57 | -2.97 | | |
| 2.06 | -4.99 | -7.07 | | |
| 1.33 | -3.29 | -4.74 | | |
| 1.32 | -5.09 | -6.53 | | |
| -1.01 | -4.23 | -5.25 | | |
| 3.97 | -3.51 | -5.58 | | |
| 1.98 | -4.29 | -5.36 | | |
| 1.92 | -3.06 | -4.09 | | |
| -2.32 | -4.34 | -3.21 | | |
| -2.56 | -4.94 | -3.67 | | |
| -2.92 | -4.72 | -3.26 | | |
| 1.83 | -2.07 | -4.15 | | |
| 1.75 | -0.34 | -2.35 | | |
| 1.59 | 0.05 | -1.82 | | |
| 1.25 | -2.18 | -3.7 | | |
| 1.18 | -4.08 | -5.51 | | |
| 1.13 | -2.03 | -3.41 | | |
| 1.11 | -0.68 | -2.03 | | |
| 1.03 | -0.12 | -1.37 | | |
| 1.02 | 0.72 | -0.52 | | |
| 1.01 | 0.97 | -0.25 | | |
| -1.01 | -0.07 | -1.26 | | |
| -1.03 | -1.86 | -3.02 | | |
| -1.05 | -1.11 | -2.23 | | |
| -1.12 | 0.98 | -0.06 | | |
| 3.8 | 3.59 | 1.52 | | |
| 2 | 1.11 | -0.03 | | |
| 1.92 | 1.05 | -0.04 | | |
| 1.85 | 0.47 | -0.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.47 | -1.44 | -0.28 | | |
| 2.83 | 0.73 | -1.34 | | |
| 2.11 | 1.89 | 0.25 | | |
| 1.84 | 2.38 | 0.93 | | |
| 1.8 | 0.03 | -1.39 | | |
| 1.76 | 1.38 | -0.01 | | |
| 1.72 | 2.98 | 1.63 | | |
| 1.57 | 0.19 | -1.03 | | |
| 1.44 | -1.01 | -2.1 | | |
| 1.36 | 1.07 | 0.05 | | |
| 1.35 | 0.21 | -0.79 | | |
| 1.18 | 2.67 | 0.59 | | |
| 1.15 | -0.74 | -2.77 | | |
| -1.09 | -2.85 | -4.56 | | |
| -1.17 | -1.39 | -2.99 | | |
| -1.46 | -0.75 | -2.03 | | |
| -1.76 | -2.67 | -3.68 | | |
| -11.71 | -1.78 | -0.06 | | |
| 4.28 | -0.87 | -2.94 | | |
| -2.19 | 0.97 | 2.12 | | |
| -2.32 | -3.09 | -1.85 | | |
| -4.37 | -3.77 | -1.62 | | |
| 244.48 | 1.38 | -0.69 | | |
| 124.54 | 1 | -0.1 | | |
| 27.25 | -1 | 0.1 | | |
| 1.22 | -0.27 | -2.34 | | |
| 1.15 | 5.07 | 3.08 | | |
| -1.08 | 4.44 | 2.76 | | |
| -9.14 | 0.71 | 2.11 | | |
| 2.25 | 6.26 | 4.19 | | |
| 1.65 | 0.21 | -1.41 | | |
| 1.29 | 3.2 | 1.94 | | |
| 1.2 | 0.81 | -0.35 | | |
| 1.16 | -0.34 | -1.47 | | |
| -2.28 | 1.22 | -0.85 | | |
| -30.63 | -0.24 | 1.44 | | |
| -53.84 | -0.72 | 1.77 | | |
| -68.93 | -2.76 | 0.1 | | |
| 1.33 | 4.71 | 2.64 | | |
| 1.24 | 2.59 | 0.61 | | |
| 1.14 | 1.46 | -0.39 | | |
| -1.06 | -1.35 | -2.93 | | |
| -1.08 | -0.28 | -1.83 | | |
| -1.23 | -1.64 | -3 | | |
| -1.39 | -0.11 | -1.29 | | |
| -1.4 | -2.62 | -3.8 | | |
| -1.49 | 1.18 | 0.09 | | |
| -1.53 | 0.88 | -0.17 | | |
| -6.58 | -1.93 | -0.87 | | |
| -7.73 | -1.41 | -0.11 | | |
| 1.51 | -1.24 | -3.31 | | |
| 1.29 | -0.21 | -2.05 | | |
| 1.11 | 0.07 | -1.55 | | |
| 1.03 | 1.25 | -0.27 | | |
| -1.03 | -3.15 | -4.58 | | |
| -1.09 | -3.86 | -5.21 | | |
| -1.14 | -1.15 | -2.43 | | |
| -1.28 | -3.86 | -4.98 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.7 | -0.01 | -2.08 | | |
| 2.65 | 3.18 | 1.14 | | |
| 1.71 | 0.36 | -1.05 | | |
| 1.59 | 7.38 | 6.08 | | |
| 1.58 | -0.63 | -1.92 | | |
| 1.53 | 0.52 | -0.73 | | |
| 1.46 | 7.44 | 6.26 | | |
| 1.46 | 2.85 | 1.67 | | |
| 1.38 | 5.67 | 4.57 | | |
| 1.33 | 1.39 | 0.35 | | |
| -3.69 | 0.09 | 1.34 | | |
| -3.88 | -1.3 | 0.02 | | |
| -4.26 | -0.44 | 1.01 | | |
| 1.51 | -1.38 | -3.44 | | |
| 1.4 | -4.05 | -6.01 | | |
| 1.26 | 0.48 | -1.33 | | |
| 1.14 | 3.05 | 1.39 | | |
| 1.08 | -2.46 | -4.04 | | |
| 1.04 | -2.98 | -4.5 | | |
| -1.03 | -1.54 | -2.97 | | |
| -1.03 | -2.1 | -3.52 | | |
| -1.05 | -0.48 | -1.87 | | |
| -1.2 | -0.68 | -1.89 | | |
| -1.21 | 0.06 | -1.14 | | |
| -1.21 | -5.99 | -7.18 | | |
| -1.32 | -3.32 | -4.38 | | |
| -1.37 | -1.39 | -2.4 | | |
| 1.89 | 1.64 | -0.42 | | |
| 1.78 | -0.45 | -2.42 | | |
| 1.54 | 5.65 | 3.88 | | |
| 1.44 | 1.29 | -0.38 | | |
| 1.29 | -1.37 | -2.88 | | |
| 1.23 | 3.84 | 2.4 | | |
| 1.21 | 0.27 | -1.15 | | |
| 1.18 | 2.6 | 1.21 | | |
| 1.14 | -0.75 | -2.08 | | |
| 1.12 | 3.04 | 1.74 | | |
| 1.07 | -0.19 | -1.43 | | |
| 1.06 | 3.87 | 2.65 | | |
| 1.05 | 1.75 | 0.54 | | |
| 1.01 | 3.03 | 1.87 | | |
| -1.03 | 3.21 | 2.12 | | |
| -1.04 | 1.19 | 0.11 | | |
| -1.07 | 1.88 | 0.84 | | |
| -1.07 | 1.88 | 0.84 | | |
| -1.09 | -0.32 | -1.34 | | |
| -1.09 | -0.73 | -1.74 | | |
| -5.77 | -2.04 | -0.65 | | |
| -10.58 | -1.08 | 1.19 | | |
| 1.51 | -1.38 | -3.44 | | |
| 1.4 | -4.05 | -6.01 | | |
| 1.26 | 0.48 | -1.33 | | |
| 1.14 | 3.05 | 1.39 | | |
| 1.09 | -2.98 | -4.58 | | |
| 1.08 | -2.46 | -4.04 | | |
| -1.03 | -1.54 | -2.97 | | |
| -1.03 | -2.1 | -3.52 | | |
| -1.04 | -0.2 | -1.62 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.2 | -0.68 | -1.89 | | |
| -1.21 | 0.06 | -1.14 | | |
| -1.21 | -5.99 | -7.18 | | |
| -1.32 | -3.32 | -4.38 | | |
| -1.37 | -1.39 | -2.4 | | |
| 1.64 | -2.93 | -4.99 | | |
| -1.02 | -0.53 | -1.86 | | |
| -1.15 | -0.11 | -1.26 | | |
| -1.26 | -3.31 | -4.33 | | |
| 1.51 | -1.38 | -3.44 | | |
| 1.4 | -4.05 | -6.01 | | |
| 1.26 | 0.48 | -1.33 | | |
| 1.14 | 3.05 | 1.39 | | |
| 1.09 | -2.98 | -4.58 | | |
| 1.08 | -2.46 | -4.04 | | |
| -1.03 | -1.54 | -2.97 | | |
| -1.03 | -2.1 | -3.52 | | |
| -1.04 | -0.2 | -1.62 | | |
| -1.2 | -0.68 | -1.89 | | |
| -1.21 | 0.06 | -1.14 | | |
| -1.21 | -5.99 | -7.18 | | |
| -1.32 | -3.32 | -4.38 | | |
| -1.37 | -1.39 | -2.4 | | |
| 2.63 | -6.6 | -8.66 | | |
| 2.14 | -3.81 | -5.57 | | |
| 1.66 | -6.3 | -7.69 | | |
| 1.48 | -7.47 | -8.69 | | |
| 1.35 | -4.93 | -6.03 | | |
| -4.18 | -5.31 | -3.91 | | |
| 3.13 | -3.97 | -6.03 | | |
| 2.58 | -4.65 | -6.43 | | |
| 1.69 | -5.81 | -6.99 | | |
| 1.6 | -5.46 | -6.56 | | |
| -3.39 | -3.35 | -2 | | |
| 3.18 | 1.38 | -0.68 | | |
| 1.68 | -0.26 | -1.4 | | |
| 1.57 | 0.77 | -0.27 | | |
| -2.88 | -0.23 | 0.91 | | |
| 2.3 | -0.8 | -2.86 | | |
| 1.42 | -1.73 | -3.09 | | |
| 1.16 | -5.42 | -6.49 | | |
| 1.11 | -3.48 | -4.48 | | |
| -3.73 | -4.75 | -3.71 | | |
| -3.79 | -6.18 | -5.11 | | |
| -6.27 | -6.48 | -4.69 | | |
| 1.62 | -2.36 | -4.42 | | |
| 1.3 | 0.13 | -1.62 | | |
| 1.25 | -3.24 | -4.93 | | |
| -1.07 | -0.31 | -1.57 | | |
| -1.08 | -3.83 | -5.07 | | |
| -1.1 | -2.58 | -3.81 | | |
| -1.24 | -1.14 | -2.19 | | |
| -1.25 | -1.94 | -2.98 | | |
| 7.04 | -0.64 | -2.69 | | |
| 4.18 | -2.31 | -3.61 | | |
| -1.64 | -2.75 | -1.27 | | |
| -1.02 | -1.01 | -3.07 | | |
| -1.23 | -4.19 | -5.98 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.23 | 2.78 | 0.99 | | |
| -1.35 | -4.17 | -5.83 | | |
| -1.66 | -2.24 | -3.59 | | |
| -1.74 | -0.93 | -2.22 | | |
| -1.02 | 1.72 | -0.33 | | |
| -1.03 | 4.18 | 2.15 | | |
| -1.05 | 1.95 | -0.06 | | |
| -1.17 | -0.47 | -2.32 | | |
| -1.2 | 0.97 | -0.84 | | |
| -1.57 | -0.19 | -1.61 | | |
| -1.61 | -1.55 | -2.95 | | |
| -1.67 | -0.03 | -1.37 | | |
| -1.9 | 1.01 | -0.14 | | |
| -2.02 | -0.1 | -1.17 | | |
| -9.38 | -1.59 | -0.44 | | |
| -10.35 | -1.58 | -0.28 | | |
| -11.79 | -0.99 | 0.5 | | |
| -16.02 | -2.53 | -0.61 | | |
| 1.43 | 2.67 | 0.62 | | |
| 1.36 | -3.27 | -5.25 | | |
| 1.08 | 3.27 | 1.62 | | |
| 1.04 | 0.23 | -1.37 | | |
| -1.02 | -3.76 | -5.27 | | |
| -1.07 | 3.31 | 1.87 | | |
| -1.08 | -0.56 | -2 | | |
| -1.11 | 1.66 | 0.28 | | |
| -1.26 | -3.6 | -4.8 | | |
| -1.42 | -1.13 | -2.16 | | |
| -1.45 | -2.15 | -3.16 | | |
| -6.2 | -0.33 | 0.76 | | |
| -6.77 | 0.25 | 1.48 | | |
| -7.07 | -1.19 | 0.09 | | |
| -9.27 | -2.4 | -0.73 | | |
| -14.4 | -3.26 | -0.95 | | |
| -16.11 | -2.16 | 0.32 | | |
| -22.99 | -4.15 | -1.17 | | |
| -24.81 | -1.78 | 1.32 | | |
| 1.3 | 2.44 | 0.38 | | |
| 1.26 | 0.85 | -1.15 | | |
| 1.2 | 0.38 | -1.55 | | |
| 1.13 | 0.88 | -0.97 | | |
| 1.12 | 0.67 | -1.17 | | |
| 1.1 | 0.75 | -1.05 | | |
| 1.04 | -3.26 | -5 | | |
| -1.07 | -0.63 | -2.21 | | |
| -1.17 | 3.15 | 1.7 | | |
| -1.2 | -3.05 | -4.47 | | |
| -1.21 | 1.73 | 0.34 | | |
| -1.23 | -1.93 | -3.3 | | |
| -1.31 | -1.95 | -3.24 | | |
| -1.35 | 1.31 | 0.07 | | |
| -1.43 | -2.44 | -3.59 | | |
| -1.46 | 0.29 | -0.84 | | |
| -1.46 | 2.68 | 1.56 | | |
| 1.51 | 2.69 | 0.64 | | |
| 1.29 | 6.39 | 4.56 | | |
| 1.29 | -1.55 | -3.38 | | |
| 1.14 | -1.76 | -3.41 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.14 | 5.02 | 3.38 | | |
| 1.09 | 0.15 | -1.43 | | |
| -1.05 | 6.12 | 4.73 | | |
| -1.06 | -1.37 | -2.74 | | |
| -1.09 | 1.13 | -0.2 | | |
| -1.1 | 4.72 | 3.39 | | |
| -1.12 | -1.65 | -2.95 | | |
| -1.21 | -0.27 | -1.46 | | |
| -1.24 | -0.86 | -2.02 | | |
| -1.24 | -1.67 | -2.82 | | |
| -1.28 | -2.48 | -3.58 | | |
| -1.29 | -1.84 | -2.94 | | |
| -5.65 | -0.01 | 1.03 | | |
| -5.91 | -0.57 | 0.54 | | |
| -10.48 | -2.06 | -0.13 | | |
| 3.61 | -0.87 | -2.93 | | |
| 3.37 | 0.51 | -1.44 | | |
| 2.48 | 2.03 | 0.52 | | |
| 1.87 | -1.14 | -2.24 | | |
| -7.2 | -0.31 | 2.34 | | |
| 6 | 0.71 | -1.34 | | |
| 3.12 | -0.29 | -1.4 | | |
| 1.88 | -0.55 | -2.6 | | |
| 1.32 | 2.38 | 0.84 | | |
| 1.14 | 1.62 | 0.29 | | |
| -4.68 | -2.9 | -1.81 | | |
| -5.73 | -1.41 | -0.02 | | |
| 10.15 | -0.34 | -2.39 | | |
| 7.51 | -0.12 | -1.74 | | |
| 6.91 | 1.22 | -0.27 | | |
| 1.18 | 2.86 | 3.92 | | |
| 1.04 | -2.41 | -1.17 | | |
| 3.13 | -1.61 | -3.66 | | |
| 2.63 | -2.23 | -4.03 | | |
| 1.7 | 0.07 | -1.09 | | |
| 1.65 | -1.9 | -3.03 | | |
| 1.61 | 0.68 | -0.41 | | |
| 1.56 | -1.05 | -2.09 | | |
| 2.9 | -1.61 | -3.66 | | |
| 1.87 | -0.92 | -2.34 | | |
| 1.53 | 0.4 | -0.72 | | |
| 1.44 | -2.17 | -3.21 | | |
| 4.88 | -1.9 | -3.95 | | |
| 4.31 | 0.07 | -1.8 | | |
| 4.21 | -3.31 | -5.14 | | |
| 3.91 | 0.58 | -1.15 | | |
| 3.86 | 0.18 | -1.53 | | |
| 3.27 | -1.12 | -2.59 | | |
| 3.23 | -2.27 | -3.72 | | |
| 3.15 | -0.31 | -1.72 | | |
| 2.97 | -1.19 | -2.52 | | |
| 2.8 | -3.12 | -4.37 | | |
| 4.35 | 2.18 | 0.13 | | |
| -3.12 | -3.41 | -1.7 | | |
| 2.24 | 3.78 | 1.73 | | |
| 1.32 | 2.24 | 0.96 | | |
| 1.11 | 4.05 | 3.03 | | |
| 1.1 | 1.9 | 0.88 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.1 | 1.67 | 0.65 | | |
| -3.76 | -0.42 | 0.61 | | |
| -4.2 | 1.49 | 2.68 | | |
| -4.41 | 0.43 | 1.69 | | |
| -4.44 | 1.71 | 2.98 | | |
| -4.74 | 1.15 | 2.51 | | |
| -5.62 | 0.4 | 2.01 | | |
| 3.22 | -2.24 | -4.28 | | |
| 1.73 | -0.99 | -2.13 | | |
| -2.91 | -1.99 | -0.81 | | |
| -2.94 | -2.55 | -1.35 | | |
| -4.42 | -3.38 | -1.59 | | |
| 29.86 | -2.42 | -4.46 | | |
| 23.03 | 1.47 | -0.2 | | |
| 21.07 | -0.23 | -1.77 | | |
| 3.6 | -1.63 | -0.62 | | |
| 3.35 | 0.34 | 1.45 | | |
| 3.19 | -0.46 | 0.73 | | |
| 2.93 | 0.34 | 1.64 | | |
| 2.09 | -1.08 | 0.71 | | |
| 1.04 | -0.68 | 2.11 | | |
| 2.63 | -3.5 | -5.54 | | |
| 1.59 | -4.26 | -5.57 | | |
| 1.53 | -0.55 | -1.81 | | |
| 1.4 | -1.17 | -2.3 | | |
| 1.35 | -0.77 | -1.85 | | |
| 1.29 | 1.98 | 0.96 | | |
| -3.32 | -2.16 | -1.08 | | |
| -4.29 | -3.13 | -1.68 | | |
| 3.77 | -4.15 | -6.18 | | |
| 3.43 | -3.56 | -5.45 | | |
| 2.35 | -4.85 | -6.2 | | |
| 1.96 | -6.02 | -7.11 | | |
| -2.8 | -6.96 | -5.59 | | |
| 2.85 | -3.55 | -5.59 | | |
| 2.05 | -3.78 | -5.34 | | |
| 2.69 | 1.77 | -0.26 | | |
| 1.9 | 3.81 | 2.28 | | |
| 1.75 | 0.94 | -0.47 | | |
| 1.41 | 1.99 | 0.89 | | |
| 1.33 | -0.28 | -1.29 | | |
| 1.32 | 2 | 1 | | |
| 1.32 | 1.15 | 0.14 | | |
| 3.34 | -0.95 | -2.98 | | |
| -2.87 | -1.49 | -0.27 | | |
| -3.91 | -2.3 | -0.63 | | |
| 2.34 | -0.09 | -2.13 | | |
| 2.07 | 1.1 | -0.76 | | |
| 1.37 | -1.15 | -2.42 | | |
| 1.36 | 2.06 | 0.81 | | |
| 1.31 | 7.91 | 6.71 | | |
| 1.25 | -1.21 | -2.35 | | |
| 1.25 | 0.17 | -0.97 | | |
| 1.21 | 3.25 | 2.16 | | |
| 1.17 | -0.26 | -1.29 | | |
| 1.16 | 8.04 | 7.02 | | |
| 1.16 | 0.37 | -0.65 | | |
| 1.16 | 6.31 | 5.3 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.15 | -0.83 | 0.41 | | |
| 2.29 | 4.03 | 2 | | |
| 1.92 | 5.2 | 3.42 | | |
| 1.68 | 0.11 | -1.47 | | |
| 1.37 | 0.42 | -0.87 | | |
| 1.26 | 4.23 | 3.07 | | |
| 1.16 | 1.46 | 0.41 | | |
| 14.47 | -0.79 | -2.82 | | |
| 1.52 | 0.92 | 2.14 | | |
| 1.32 | 1.57 | 2.99 | | |
| 2.48 | 0.4 | -1.63 | | |
| 2.31 | -1.67 | -3.61 | | |
| 1.45 | -1.97 | -3.23 | | |
| 1.25 | -0.23 | -1.27 | | |
| 13.33 | 2.22 | 0.19 | | |
| 1.39 | -1.3 | -0.06 | | |
| 1.23 | -2.3 | -0.89 | | |
| -1.03 | 1.17 | 2.93 | | |
| 4.28 | -3.71 | -5.74 | | |
| 2.83 | -1 | -2.43 | | |
| 2.48 | -3.43 | -4.67 | | |
| 2.25 | -1.87 | -2.97 | | |
| -2.26 | -3.23 | -1.98 | | |
| -2.27 | -5.02 | -3.77 | | |
| -2.28 | -5.51 | -4.26 | | |
| -2.65 | -4.15 | -2.68 | | |
| 4.87 | 0.63 | -1.4 | | |
| -1.86 | -2.81 | -1.65 | | |
| -1.9 | -3.16 | -1.98 | | |
| -1.93 | -3.06 | -1.85 | | |
| 1.3 | -0.99 | -3.01 | | |
| 1.25 | 0.11 | -1.86 | | |
| 1.15 | -3.12 | -4.97 | | |
| -1.01 | 2.02 | 0.39 | | |
| -1.02 | -1.81 | -3.43 | | |
| -1.09 | 0.94 | -0.59 | | |
| -1.15 | 3.98 | 2.53 | | |
| -1.18 | 2.99 | 1.58 | | |
| -1.26 | -1.75 | -3.07 | | |
| -1.35 | -0.19 | -1.4 | | |
| -1.4 | 1.05 | -0.11 | | |
| 1.37 | -0.81 | -2.83 | | |
| 1.1 | -0.73 | -2.44 | | |
| 1.07 | 0.18 | -1.5 | | |
| -1.05 | 4.47 | 2.96 | | |
| -1.12 | -0.9 | -2.31 | | |
| -1.37 | 2.64 | 1.52 | | |
| -7.09 | -0.54 | 0.71 | | |
| -9.99 | -0.57 | 1.18 | | |
| 1.61 | -2.8 | -4.82 | | |
| 1.34 | -0.48 | -2.24 | | |
| 1.22 | -1.01 | -2.63 | | |
| 1.21 | -2.24 | -3.85 | | |
| -1.01 | 0.93 | -0.4 | | |
| -1.07 | 3.92 | 2.67 | | |
| -1.17 | -1.3 | -2.4 | | |
| 6.15 | -0.73 | -2.75 | | |
| 3.72 | -1.28 | -2.59 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.5 | 1.06 | -0.15 | | |
| 3.4 | -0.85 | -2.02 | | |
| 3.38 | -0.39 | -1.55 | | |
| 3.23 | 0.09 | -1 | | |
| -1.4 | -0.5 | 0.58 | | |
| 3.59 | 3.26 | 1.23 | | |
| 2.05 | 0.38 | -0.84 | | |
| -2.61 | -1.29 | -0.08 | | |
| -2.64 | -0.84 | 0.38 | | |
| 3.46 | -1.43 | -3.46 | | |
| 2.73 | -2.72 | -4.41 | | |
| 2.53 | 1.49 | -0.09 | | |
| 1.83 | -4.05 | -5.15 | | |
| 1.7 | 2.24 | 1.24 | | |
| -2.61 | -2.59 | -1.45 | | |
| 2.49 | -3.13 | -5.15 | | |
| 1.45 | -1.52 | -2.76 | | |
| 3.23 | -4.55 | -6.57 | | |
| 2.75 | -3.74 | -5.52 | | |
| 2.39 | 0.4 | -1.19 | | |
| 1.98 | -4.52 | -5.83 | | |
| 1.81 | -2.76 | -3.94 | | |
| -2.76 | -2.08 | -0.94 | | |
| -2.83 | -5.06 | -3.88 | | |
| 1.51 | -0.55 | -2.57 | | |
| 1.39 | -2.75 | -4.65 | | |
| 1.32 | -2.75 | -4.58 | | |
| 1.11 | 1 | -0.58 | | |
| -1.03 | 1.22 | -0.16 | | |
| -1.08 | -1.08 | -2.39 | | |
| -1.14 | 0.07 | -1.16 | | |
| -1.27 | -2.1 | -3.17 | | |
| -1.31 | -0.69 | -1.72 | | |
| -5.86 | -0.78 | 0.35 | | |
| 7.45 | -2.27 | -4.29 | | |
| 6.23 | -0.27 | -2.03 | | |
| 4.85 | -0.45 | -1.85 | | |
| 3.94 | -0.12 | -1.22 | | |
| 3.76 | -0.95 | -1.99 | | |
| -1.44 | -1.58 | -0.18 | | |
| 3.67 | 2.07 | 0.05 | | |
| -2.38 | 1.39 | 2.5 | | |
| -2.38 | 0.59 | 1.7 | | |
| -2.45 | 0.73 | 1.88 | | |
| -2.59 | 0.53 | 1.76 | | |
| -2.84 | -1.76 | -0.4 | | |
| -2.86 | -0.24 | 1.13 | | |
| -3.04 | 0.86 | 2.32 | | |
| -3.38 | -1.54 | 0.08 | | |
| -4.13 | -2.24 | -0.34 | | |
| 1.38 | -1.63 | -3.64 | | |
| 1.36 | -2.63 | -4.62 | | |
| 1.29 | 3.3 | 1.39 | | |
| 1.09 | 0.34 | -1.32 | | |
| 1.06 | 2.47 | 0.84 | | |
| -1.13 | 1.88 | 0.5 | | |
| -1.14 | 1.31 | -0.05 | | |
| -7.3 | 0.98 | 2.3 | | |

| | | | | |
|--------|-------|-------|--|--|
| -9.03 | -3.27 | -1.65 | | |
| -10.14 | -2.77 | -0.98 | | |
| -10.26 | -0.36 | 1.45 | | |
| -13.04 | 0.09 | 2.25 | | |
| -44.26 | -2.72 | 1.2 | | |
| 4.08 | -0.56 | -2.58 | | |
| 3.58 | -0.03 | -1.86 | | |
| 2.63 | -2.15 | -3.54 | | |
| 2.45 | -2.35 | -3.63 | | |
| 2.36 | 1.34 | 0.11 | | |
| 2.32 | -0.14 | -1.35 | | |
| 2.14 | -0.38 | -1.47 | | |
| 2.91 | 4.69 | 2.67 | | |
| 2.03 | 2.22 | 0.72 | | |
| 1.99 | 0.31 | -1.16 | | |
| 1.61 | -0.09 | -1.25 | | |
| -2.79 | -1.27 | -0.26 | | |
| 1.93 | -3.98 | -5.99 | | |
| 1.23 | 0.97 | -0.4 | | |
| 1.19 | -1.18 | -2.49 | | |
| 1.17 | -1.04 | -2.33 | | |
| 1.14 | -3.57 | -4.82 | | |
| 1.06 | -1.51 | -2.65 | | |
| -5.03 | -4.54 | -3.27 | | |
| -5.06 | -2.98 | -1.7 | | |
| -5.48 | -2.89 | -1.5 | | |
| 28.13 | -0.41 | -2.43 | | |
| 2.17 | 0.02 | 1.7 | | |
| 1.4 | 2.58 | 0.56 | | |
| 1.18 | 1.58 | -0.2 | | |
| 1.18 | 3.11 | 1.34 | | |
| 1.09 | 4.1 | 2.44 | | |
| 1.04 | 0.04 | -1.56 | | |
| 1.02 | 2.26 | 0.7 | | |
| 1.03 | 1.47 | -0.09 | | |
| -1 | -1.87 | -3.4 | | |
| -1.03 | 1.8 | 0.32 | | |
| -1.13 | 1.22 | -0.13 | | |
| -1.17 | 3.61 | 2.31 | | |
| -1.19 | 0.92 | -0.36 | | |
| -1.31 | 1.36 | 0.22 | | |
| -1.43 | -2.42 | -3.43 | | |
| -5.83 | -0.54 | 0.47 | | |
| 1.48 | 2.45 | 0.43 | | |
| 1.16 | 2.88 | 1.21 | | |
| 1.03 | 1.53 | 0.05 | | |
| 1.01 | 0.97 | -0.5 | | |
| -1.27 | 1.33 | 0.22 | | |
| -5.89 | 0.61 | 1.72 | | |
| -5.95 | -1.6 | -0.48 | | |
| -11.1 | -1.18 | 0.84 | | |
| 4.72 | -0.49 | -2.51 | | |
| 2.52 | 1.15 | 0.04 | | |
| 2.45 | 0.48 | -0.59 | | |
| -1.74 | -1.11 | -0.08 | | |
| 3.54 | -2.69 | -4.7 | | |
| 1.87 | -4.61 | -5.71 | | |
| 3.29 | 0.77 | -1.24 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.28 | 0.2 | -1.29 | | |
| -6.53 | -0.67 | 1.74 | | |
| 4.67 | -5.61 | -7.62 | | |
| -5.42 | -5.09 | -2.44 | | |
| -5.74 | -2.52 | 0.22 | | |
| 3.13 | -4.48 | -6.49 | | |
| 2.06 | -2.76 | -4.17 | | |
| 1.83 | -4.42 | -5.66 | | |
| 1.6 | -5.44 | -6.48 | | |
| 1.93 | -0.62 | -2.64 | | |
| 1.17 | 1.51 | 0.23 | | |
| 1.14 | 0.6 | -0.65 | | |
| 1.12 | -2.03 | -3.25 | | |
| 1.08 | -2.42 | -3.59 | | |
| 1.02 | 0.16 | -0.94 | | |
| -1.02 | -1.21 | -2.25 | | |
| 1.73 | -2.21 | -4.22 | | |
| 1.39 | 1.71 | 0.02 | | |
| 1.34 | -4.31 | -5.96 | | |
| 1.17 | 1.16 | -0.29 | | |
| -1.05 | -4.5 | -5.64 | | |
| 1.02 | 2.56 | 0.56 | | |
| -1.17 | -1.91 | -3.67 | | |
| -1.36 | 4.05 | 2.52 | | |
| -1.56 | -2.73 | -4.06 | | |
| -1.68 | -1.85 | -3.08 | | |
| -1.78 | -0.21 | -1.36 | | |
| -1.81 | -1.31 | -2.44 | | |
| -1.85 | 1.6 | 0.51 | | |
| -7.88 | -1.24 | -0.24 | | |
| -8.36 | -1.73 | -0.64 | | |
| -9.36 | -1.77 | -0.52 | | |
| -9.92 | -1.5 | -0.17 | | |
| 1.42 | -0.04 | -2.05 | | |
| 1.37 | -3.08 | -5.04 | | |
| 1.32 | -2.2 | -4.1 | | |
| 1.27 | 4.62 | 2.77 | | |
| -1.09 | -1.88 | -3.26 | | |
| -1.12 | -3.83 | -5.17 | | |
| -1.21 | -4.23 | -5.46 | | |
| 1.42 | -1.24 | -3.24 | | |
| 1.39 | 0.53 | -1.44 | | |
| 1.22 | -0.27 | -2.06 | | |
| 1.16 | 0.09 | -1.62 | | |
| 1.14 | -0.18 | -1.87 | | |
| -1.11 | 0.36 | -0.99 | | |
| -1.16 | 0.93 | -0.35 | | |
| -1.34 | -4.65 | -5.73 | | |
| -11.75 | -3.37 | -1.31 | | |
| 3.39 | -4.79 | -6.8 | | |
| 2.11 | -5.07 | -6.39 | | |
| -4.2 | -6.61 | -4.78 | | |
| 2.04 | 3 | 0.99 | | |
| 1.81 | 3.23 | 1.39 | | |
| 1.5 | 3.41 | 1.85 | | |
| 1.45 | 2.02 | 0.5 | | |
| 1.4 | 1.84 | 0.37 | | |
| 1.26 | 2.06 | 0.75 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.23 | 1.66 | 0.39 | | |
| 1.22 | 2.16 | 0.9 | | |
| 1.21 | -0.07 | -1.32 | | |
| 1.12 | 1.07 | -0.07 | | |
| 1.06 | -0.86 | -1.91 | | |
| 1.05 | -0.84 | -1.88 | | |
| 1.03 | -0.2 | -1.22 | | |
| 1.02 | 1.66 | 0.66 | | |
| -4.39 | -0.05 | 1.11 | | |
| -4.46 | -0.16 | 1.02 | | |
| -4.93 | -1.33 | 0 | | |
| -6.56 | -1.76 | -0.02 | | |
| 3.88 | 1.77 | -0.23 | | |
| -2.34 | -0.32 | 0.85 | | |
| -2.8 | -1.66 | -0.22 | | |
| -4.29 | -2.43 | -0.37 | | |
| 10.09 | -4.76 | -6.77 | | |
| 9.26 | -1.75 | -3.63 | | |
| 1.16 | -3.65 | -2.53 | | |
| 1.14 | -0.43 | 0.71 | | |
| 6.22 | -0.33 | -2.33 | | |
| 4.77 | -0.5 | -2.12 | | |
| -1.31 | -2.2 | -1.17 | | |
| -1.87 | -2.61 | -1.07 | | |
| 7.29 | 0.11 | -1.9 | | |
| -1.1 | -1.72 | -0.71 | | |
| -1.11 | 3.38 | 4.4 | | |
| -1.17 | -1.76 | -0.67 | | |
| -1.22 | -2.89 | -1.74 | | |
| -1.26 | -2.56 | -1.36 | | |
| -1.57 | -2.71 | -1.2 | | |
| -2.03 | -2.64 | -0.76 | | |
| -1.55 | -1.35 | -3.35 | | |
| -2.04 | -3.31 | -4.92 | | |
| -2.29 | -4.5 | -5.94 | | |
| -2.68 | -4.35 | -5.57 | | |
| -12.65 | -4.74 | -3.72 | | |
| 1.41 | 0.46 | -1.54 | | |
| -1.1 | 0.38 | -0.98 | | |
| -1.12 | -0.8 | -2.14 | | |
| -1.16 | -2.7 | -3.98 | | |
| -1.2 | -2.31 | -3.55 | | |
| -1.21 | 1.25 | 0.02 | | |
| -1.25 | -2.25 | -3.43 | | |
| -1.36 | -1.43 | -2.49 | | |
| 4.48 | -0.09 | -2.09 | | |
| 2.47 | 0.08 | -1.06 | | |
| 2.46 | 1.39 | 0.25 | | |
| 3.65 | 2.49 | 0.49 | | |
| 2.27 | -3.14 | -4.46 | | |
| -2.19 | -3.54 | -2.54 | | |
| -2.21 | 0.52 | 1.53 | | |
| -2.24 | -4.53 | -3.5 | | |
| -2.75 | -3.12 | -1.8 | | |
| -2.76 | -4.99 | -3.66 | | |
| -2.85 | -4.45 | -3.08 | | |
| -3.36 | -3.11 | -1.5 | | |
| 9.49 | -0.51 | -2.51 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.93 | 1.13 | 0.07 | | |
| 1.17 | 0.98 | 2 | | |
| 5.47 | 0.15 | -1.85 | | |
| 4.05 | 1.21 | -0.35 | | |
| 3.09 | -0.66 | -1.84 | | |
| -1.55 | -1.2 | -0.12 | | |
| 1.25 | -0.68 | -2.67 | | |
| 1.16 | 0.37 | -1.52 | | |
| 1.01 | -1.44 | -3.13 | | |
| -1.02 | 3.14 | 1.5 | | |
| -1.04 | 5.04 | 3.43 | | |
| -1.06 | 3.76 | 2.17 | | |
| -1.11 | -0.59 | -2.11 | | |
| -1.41 | -2 | -3.18 | | |
| -6.59 | -1.43 | -0.39 | | |
| 2.11 | -0.21 | -2.21 | | |
| 1.29 | -0.02 | -1.3 | | |
| -4.69 | 0.43 | 1.75 | | |
| -5.56 | 0.67 | 2.23 | | |
| -7.63 | 0.15 | 2.17 | | |
| -7.83 | 0.1 | 2.15 | | |
| -9.6 | -1.48 | 0.86 | | |
| 2.99 | -0.72 | -2.72 | | |
| 2.7 | -4.47 | -6.32 | | |
| 2.37 | -1.65 | -3.31 | | |
| 1.83 | -2.51 | -3.79 | | |
| 1.54 | -3.99 | -5.03 | | |
| 1.52 | -0.26 | -1.28 | | |
| 1.53 | -0.07 | -1.09 | | |
| 4.05 | 4.77 | 2.77 | | |
| 2.08 | -0.15 | -1.18 | | |
| -2.23 | -2.28 | -1.09 | | |
| -2.76 | -1.6 | -0.12 | | |
| 3.84 | -0.91 | -2.91 | | |
| 2.13 | -0.18 | -1.32 | | |
| -2.14 | -2.83 | -1.79 | | |
| 5.95 | 1.77 | -0.23 | | |
| 3.1 | 0.91 | -0.14 | | |
| 2.49 | 2.9 | 0.9 | | |
| 2.44 | 0.16 | -1.81 | | |
| 1.89 | 2.52 | 0.92 | | |
| 1.77 | 1.63 | 0.13 | | |
| 1.65 | -0.58 | -1.98 | | |
| 1.55 | 3.73 | 2.42 | | |
| 1.5 | 0 | -1.26 | | |
| 1.35 | 1.97 | 0.85 | | |
| -3.58 | -0.53 | 0.63 | | |
| -5.54 | -0.25 | 1.54 | | |
| 5.38 | -0.35 | -2.34 | | |
| 4.58 | 2.13 | 0.37 | | |
| 3.02 | -0.14 | -1.3 | | |
| 3.03 | -0.05 | -1.21 | | |
| -1.94 | -1.85 | -0.46 | | |
| 1.28 | -1.89 | -3.88 | | |
| 1.11 | -3.87 | -5.67 | | |
| 1.11 | -2.26 | -4.05 | | |
| 1.1 | -0.39 | -2.17 | | |
| -1.05 | -3.72 | -5.29 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.15 | -6.19 | -7.63 | | |
| -6.4 | -3.47 | -2.43 | | |
| -7.09 | -5.1 | -3.92 | | |
| -17.56 | -6.26 | -3.77 | | |
| 1.54 | 0.09 | -1.91 | | |
| 1.51 | 3.35 | 1.39 | | |
| 1.24 | 1.27 | -0.4 | | |
| 1.17 | 0.62 | -0.97 | | |
| 1.04 | 1.42 | -0.01 | | |
| -1.01 | 0.44 | -0.92 | | |
| -1.03 | 1.27 | -0.05 | | |
| -1.11 | 1.52 | 0.3 | | |
| -5.35 | -0.51 | 0.55 | | |
| -5.36 | -0.12 | 0.94 | | |
| -5.46 | 1.04 | 2.12 | | |
| -5.48 | 0.82 | 1.9 | | |
| -5.7 | 0.64 | 1.78 | | |
| -5.73 | -1.79 | -0.64 | | |
| -6.07 | 1.03 | 2.26 | | |
| -6.43 | -1.1 | 0.22 | | |
| -6.56 | -1.26 | 0.09 | | |
| -6.92 | 0.86 | 2.29 | | |
| -9.28 | -3.13 | -1.28 | | |
| -19.01 | -3.39 | -0.5 | | |
| 5.02 | -1.29 | -3.28 | | |
| -1.63 | -3.66 | -2.62 | | |
| -1.65 | -2.66 | -1.6 | | |
| -2.4 | -2.14 | -0.54 | | |
| 3.32 | 0.47 | -1.52 | | |
| 2.81 | -0.02 | -1.77 | | |
| 1.15 | 1.04 | -0.95 | | |
| -1.1 | 1.73 | 0.08 | | |
| -1.12 | -0.27 | -1.89 | | |
| -1.23 | -0.3 | -1.79 | | |
| -7.61 | -3.61 | -2.47 | | |
| 1.89 | -0.98 | -2.97 | | |
| 1.78 | -0.07 | -1.97 | | |
| 1.24 | 2.26 | 0.88 | | |
| 1.21 | -0.35 | -1.69 | | |
| 1.15 | 2.34 | 1.07 | | |
| 1.11 | -1.04 | -2.26 | | |
| 1.08 | 2.21 | 1.03 | | |
| 1.02 | 0.46 | -0.64 | | |
| -1.03 | 2.59 | 1.56 | | |
| -1.03 | 1.45 | 0.43 | | |
| -4.57 | -0.71 | 0.42 | | |
| -4.84 | -3.2 | -1.99 | | |
| -5.33 | -2.33 | -0.98 | | |
| -5.42 | -2 | -0.62 | | |
| -5.5 | 0.85 | 2.24 | | |
| 3.23 | 0.45 | -1.53 | | |
| 3.16 | -0.12 | -2.08 | | |
| 1.91 | -1.48 | -2.71 | | |
| -2.72 | 0.71 | 1.86 | | |
| 3.91 | -1.59 | -3.58 | | |
| -2.3 | -4.5 | -3.31 | | |
| 4.5 | 3.36 | 1.38 | | |
| -1.94 | -0.27 | 0.87 | | |

| | | | | |
|-------|-------|-------|--|--|
| 8.69 | -2.53 | -4.52 | | |
| 1.04 | -3.2 | -2.12 | | |
| -1.45 | -6.73 | -5.06 | | |
| -1.78 | -4.51 | -2.54 | | |
| 3.95 | 1.25 | -0.73 | | |
| 2.85 | 0.62 | -0.9 | | |
| 2.3 | -0.1 | -1.3 | | |
| 2.03 | 2.5 | 1.48 | | |
| -2.02 | 0.57 | 1.58 | | |
| 7.18 | -2.98 | -4.96 | | |
| 4.94 | -2.13 | -3.57 | | |
| 4.33 | -2.97 | -4.22 | | |
| 3.92 | -3.88 | -4.99 | | |
| 3.79 | -5.32 | -6.38 | | |
| -1.14 | -3.94 | -2.89 | | |
| 4.33 | -0.8 | -2.78 | | |
| -1.83 | -1.64 | -0.63 | | |
| 2.15 | 0.33 | -1.65 | | |
| 2.04 | -0.9 | -2.81 | | |
| 1.68 | -0.15 | -1.77 | | |
| 1.44 | -0.35 | -1.75 | | |
| 1.25 | -1.08 | -2.29 | | |
| 1.1 | -0.23 | -1.25 | | |
| 2.43 | -3.19 | -5.18 | | |
| 2 | 2 | 0.29 | | |
| 1.75 | 0.71 | -0.8 | | |
| 1.59 | 0.07 | -1.31 | | |
| -5.67 | -7.12 | -5.32 | | |
| 2.12 | -0.91 | -2.9 | | |
| 1.31 | 2.94 | 1.64 | | |
| 1.19 | -3.37 | -4.53 | | |
| 1.07 | -4.72 | -5.72 | | |
| 2.77 | 2.94 | 0.96 | | |
| 1.81 | 1.69 | 0.32 | | |
| 1.74 | 4.52 | 3.21 | | |
| 1.56 | 0.23 | -0.92 | | |
| -3.18 | 0.81 | 1.96 | | |
| 2.49 | 1.24 | -0.74 | | |
| 1.79 | -4.24 | -5.74 | | |
| 1.45 | -3.73 | -4.93 | | |
| 1.31 | -1.13 | -2.18 | | |
| 1.26 | -2.77 | -3.77 | | |
| -3.67 | -3.12 | -1.9 | | |
| -3.84 | -3.08 | -1.8 | | |
| -3.94 | -3.43 | -2.11 | | |
| -5.31 | -4.79 | -3.05 | | |
| 1.87 | 5.72 | 3.75 | | |
| 1.74 | 1.7 | -0.17 | | |
| 1.51 | 2.48 | 0.81 | | |
| 1.49 | 2.6 | 0.95 | | |
| 1.44 | 2.98 | 1.38 | | |
| 1.2 | 3.19 | 1.86 | | |
| 1.09 | 2.99 | 1.79 | | |
| 1.07 | -1.05 | -2.23 | | |
| 1.04 | 4.21 | 3.09 | | |
| -4.54 | -1.28 | -0.17 | | |
| -4.95 | 0.33 | 1.56 | | |
| -6.71 | -0.61 | 1.07 | | |

| | | | | |
|-------|-------|-------|--|--|
| -7.91 | -1.61 | 0.3 | | |
| 9.13 | -1.02 | -2.99 | | |
| 5.36 | -0.29 | -1.5 | | |
| 1.15 | 1.02 | 2.03 | | |
| 1.13 | -3.33 | -2.29 | | |
| 1.12 | 1.77 | 2.83 | | |
| 1.06 | -3.09 | -1.96 | | |
| -1.12 | 0.57 | 1.96 | | |
| 2.11 | -1.65 | -3.63 | | |
| 1.28 | -2.98 | -4.24 | | |
| 1.22 | 0.92 | -0.26 | | |
| 1.19 | 2.01 | 0.87 | | |
| 1.17 | 1.44 | 0.31 | | |
| 1.08 | 2.5 | 1.49 | | |
| -3.77 | -2.37 | -1.35 | | |
| -5.14 | -2.76 | -1.3 | | |
| 2.04 | -0.53 | -2.51 | | |
| 1.56 | 0.96 | -0.63 | | |
| 1.52 | 1.53 | -0.01 | | |
| 1.27 | -0.15 | -1.43 | | |
| 1.17 | -0.24 | -1.41 | | |
| 1.17 | 0.03 | -1.15 | | |
| 1.14 | 0.75 | -0.39 | | |
| 1.07 | 0.79 | -0.25 | | |
| 1.06 | -0.09 | -1.12 | | |
| 1.06 | 2.02 | 0.99 | | |
| 2.15 | -2.83 | -4.81 | | |
| 1.4 | -2.85 | -4.21 | | |
| 1.38 | -0.37 | -1.7 | | |
| 1.18 | -2.2 | -3.31 | | |
| 1.47 | -0.71 | -2.69 | | |
| 1.46 | 2.11 | 0.14 | | |
| 1.44 | 0.48 | -1.46 | | |
| 1.43 | 2.06 | 0.12 | | |
| 1.42 | 4.82 | 2.89 | | |
| 1.42 | 4.92 | 3 | | |
| 1.41 | 3.47 | 1.55 | | |
| 1.32 | -0.75 | -2.57 | | |
| 1.31 | 2.15 | 0.34 | | |
| 1.17 | 1.9 | 0.25 | | |
| 1.15 | -0.04 | -1.66 | | |
| 1.14 | 1.14 | -0.47 | | |
| 1.12 | 1.48 | -0.1 | | |
| 1.09 | -0.29 | -1.84 | | |
| 1.09 | 0.45 | -1.11 | | |
| 1.09 | 3.16 | 1.61 | | |
| 1.06 | -0.05 | -1.55 | | |
| 1.03 | -0.35 | -1.81 | | |
| 1.01 | 0.85 | -0.59 | | |
| -1.01 | 0.53 | -0.88 | | |
| -1.02 | 0.87 | -0.53 | | |
| -1.06 | -1.47 | -2.81 | | |
| -1.07 | -0.73 | -2.05 | | |
| -1.21 | 4.97 | 3.83 | | |
| -1.26 | 0.45 | -0.64 | | |
| -1.33 | -0.32 | -1.33 | | |
| -1.34 | -1.18 | -2.18 | | |
| -5.53 | 1.06 | 2.11 | | |

| | | | | |
|--------|-------|-------|--|--|
| -5.64 | 1.54 | 2.61 | | |
| -5.94 | -1.94 | -0.79 | | |
| -6.76 | 0.77 | 2.1 | | |
| -7.17 | 1.4 | 2.82 | | |
| -7.96 | 0.27 | 1.84 | | |
| -9.66 | -1.87 | -0.02 | | |
| -10.49 | -0.82 | 1.15 | | |
| -10.52 | -1.67 | 0.3 | | |
| -11.9 | -2.18 | -0.03 | | |
| -13.55 | -2.21 | 0.13 | | |
| -17.51 | -2.31 | 0.39 | | |
| 7.53 | -1.33 | -3.31 | | |
| -1.08 | 1.34 | 2.38 | | |
| 1.24 | -4.65 | -6.63 | | |
| -1.18 | 0.46 | -0.97 | | |
| 1.91 | -2.26 | -4.24 | | |
| 1.44 | 1.75 | 0.18 | | |
| 1.31 | -1.66 | -3.1 | | |
| 1.1 | 0.65 | -0.54 | | |
| 1.09 | 5.12 | 3.94 | | |
| 1.07 | -3.39 | -4.53 | | |
| 1.01 | -0.19 | -1.25 | | |
| -1.02 | 1.06 | 0.04 | | |
| 4.18 | 3.78 | 1.81 | | |
| 2.18 | -0.35 | -1.39 | | |
| -1.98 | -0.66 | 0.42 | | |
| -2.36 | -2.95 | -1.62 | | |
| 2.46 | 0.08 | -1.89 | | |
| 1.74 | -1.35 | -2.82 | | |
| 1.46 | 1.12 | -0.11 | | |
| 1.43 | 2.13 | 0.94 | | |
| 1.35 | 1.58 | 0.47 | | |
| 1.32 | -3.47 | -5.44 | | |
| 1.15 | -4.97 | -6.74 | | |
| 1.13 | -5.24 | -6.98 | | |
| 1.04 | -5.5 | -7.13 | | |
| 1.73 | 1.08 | -0.89 | | |
| 1.46 | 0.52 | -1.2 | | |
| 1.29 | 2.37 | 0.81 | | |
| 1.22 | 1.42 | -0.05 | | |
| 1.19 | -2.17 | -3.59 | | |
| 1.17 | 0.06 | -1.34 | | |
| 1.17 | 1.41 | 0.01 | | |
| 1.16 | 3.72 | 2.32 | | |
| 1.09 | 1.13 | -0.17 | | |
| 1.04 | 0.39 | -0.84 | | |
| 1.03 | 3.08 | 1.86 | | |
| -1.02 | 2.24 | 1.09 | | |
| -1.09 | 0.05 | -1.01 | | |
| -1.1 | -0.61 | -1.65 | | |
| -1.11 | 1.9 | 0.87 | | |
| -1.12 | -0.59 | -1.6 | | |
| -4.64 | 0.83 | 1.87 | | |
| -4.83 | -0.2 | 0.9 | | |
| -5 | 0.98 | 2.13 | | |
| -7.62 | -1.58 | 0.17 | | |
| -7.65 | -0.68 | 1.08 | | |
| -7.72 | -1.43 | 0.34 | | |

| | | | | |
|-------|-------|-------|--|--|
| -7.81 | -1.04 | 0.74 | | |
| -9.35 | -0.44 | 1.61 | | |
| 2.62 | 1.79 | -0.19 | | |
| 2.17 | -1.32 | -3.02 | | |
| 1.7 | -1.74 | -3.1 | | |
| 1.59 | 0.85 | -0.4 | | |
| 1.52 | 1.3 | 0.12 | | |
| 1.37 | -1.37 | -2.41 | | |
| -5.24 | -2.65 | -0.85 | | |
| -5.58 | -2.36 | -0.46 | | |
| 47.05 | 1.3 | -0.67 | | |
| 25.94 | -0.01 | -1.12 | | |
| 4.61 | -0.41 | 0.97 | | |
| 2.63 | -4.45 | -2.26 | | |
| 2.61 | -4.45 | -2.25 | | |
| 1.8 | -3.31 | -0.58 | | |
| 1.56 | -5 | -2.06 | | |
| 1.45 | -5.13 | -2.08 | | |
| 1.19 | -1.72 | 1.61 | | |
| 1.1 | -2.36 | 1.09 | | |
| 1.01 | -1.2 | 2.37 | | |
| -1.16 | -1.88 | 1.92 | | |
| -1.25 | -4.57 | -0.67 | | |
| -1.37 | -4.24 | -0.21 | | |
| -1.55 | -4.66 | -0.45 | | |
| 1.78 | -0.48 | -2.44 | | |
| 1.2 | -2.84 | -4.24 | | |
| 1.1 | 4.37 | 3.1 | | |
| 1.05 | -0.62 | -1.83 | | |
| -1.09 | -3.71 | -4.72 | | |
| -5.88 | -2.74 | -1.31 | | |
| 14.87 | -0.01 | -1.98 | | |
| 1.86 | 0.18 | 1.21 | | |
| 1.83 | 0.16 | 1.21 | | |
| 1.46 | -0.61 | 0.77 | | |
| 1.41 | 0.88 | 2.31 | | |
| 1.36 | -0.91 | 0.57 | | |
| 1.23 | -3.35 | -1.72 | | |
| 1.19 | -0.39 | 1.28 | | |
| 1.18 | -0.54 | 1.15 | | |
| 1.16 | -0.68 | 1.03 | | |
| 1.15 | -3.43 | -1.71 | | |
| 1.13 | -0.29 | 1.45 | | |
| 1.02 | 4.25 | 6.15 | | |
| 1 | -0.83 | 1.09 | | |
| -1.01 | -3.86 | -1.92 | | |
| -1.05 | -3.99 | -2 | | |
| -1.05 | 2.66 | 4.66 | | |
| -1.15 | 4.37 | 6.5 | | |
| -1.17 | -1.77 | 0.38 | | |
| -1.19 | 1.6 | 3.78 | | |
| -1.43 | -3.62 | -1.18 | | |
| 3.65 | 3.45 | 1.48 | | |
| 2.71 | 0.17 | -1.37 | | |
| 2.39 | 2.36 | 1 | | |
| 2.08 | 0.56 | -0.6 | | |
| 1.99 | 1.49 | 0.39 | | |
| 2.9 | -0.1 | -2.07 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.8 | 3.09 | 1.81 | | |
| 1.75 | 2.58 | 1.34 | | |
| -3 | 0.68 | 1.84 | | |
| -3.72 | -2 | -0.53 | | |
| -3.9 | -4.09 | -2.56 | | |
| -4.15 | -1.16 | 0.47 | | |
| -5.39 | -1.89 | 0.11 | | |
| 1.72 | -2.04 | -4.01 | | |
| 1.34 | -0.12 | -1.73 | | |
| 1.19 | -0.03 | -1.47 | | |
| 1.17 | 2.49 | 1.08 | | |
| 1.14 | -3.33 | -4.71 | | |
| 1.08 | 1.65 | 0.36 | | |
| 1.05 | 0.13 | -1.13 | | |
| 1.04 | -1.77 | -3.01 | | |
| 1.03 | -1.73 | -2.96 | | |
| 1.02 | -3.19 | -4.4 | | |
| 1 | 3.39 | 2.2 | | |
| 1.01 | -3.33 | -4.53 | | |
| -1.05 | -0.81 | -1.92 | | |
| -1.08 | -1.42 | -2.49 | | |
| -1.09 | 0.47 | -0.59 | | |
| -1.13 | 0.51 | -0.5 | | |
| -4.82 | 0.47 | 1.55 | | |
| -4.86 | -0.87 | 0.22 | | |
| -5.87 | -1.03 | 0.34 | | |
| -8.72 | -2.64 | -0.7 | | |
| -12.75 | -1.39 | 1.1 | | |
| 3.54 | -3.04 | -5 | | |
| -2.96 | -6.23 | -4.8 | | |
| 4.47 | 0.69 | -1.28 | | |
| 4.17 | 5.58 | 3.72 | | |
| 3.87 | 2.72 | 0.96 | | |
| 3.2 | 1.81 | 0.33 | | |
| 2.99 | 1.25 | -0.13 | | |
| -1.9 | -0.94 | 0.19 | | |
| -2.16 | 0.01 | 1.32 | | |
| -2.21 | -1.1 | 0.24 | | |
| -2.28 | -0.61 | 0.78 | | |
| -2.5 | -1.61 | -0.09 | | |
| -2.64 | -1.25 | 0.35 | | |
| 4.76 | -0.08 | -2.04 | | |
| 3.88 | -1.39 | -3.06 | | |
| 3.8 | -0.91 | -2.55 | | |
| -1.69 | -1.39 | -0.35 | | |
| 2.07 | 3.18 | 1.22 | | |
| 1.78 | -3.81 | -5.56 | | |
| 1.67 | 1.05 | -0.6 | | |
| 1.55 | -2.66 | -4.2 | | |
| 1.45 | 0.29 | -1.16 | | |
| 1.32 | -2.33 | -3.65 | | |
| 1.32 | 0.91 | -0.41 | | |
| 1.15 | -3.1 | -4.21 | | |
| 1.14 | -0.89 | -1.99 | | |
| 1.12 | -2.79 | -3.86 | | |
| 1.1 | -0.28 | -1.33 | | |
| 2.88 | 0.08 | -1.88 | | |
| 1.79 | -3.67 | -4.94 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.72 | 4.01 | 2.04 | | |
| 3.55 | 4.4 | 2.85 | | |
| 3.04 | 2.57 | 1.24 | | |
| 2.46 | -0.63 | -1.66 | | |
| 5.47 | 0.37 | -1.59 | | |
| 4.05 | 1.44 | -0.09 | | |
| -1.73 | -0.71 | 0.58 | | |
| -2.09 | -2.48 | -0.93 | | |
| 2.2 | 0.04 | -1.93 | | |
| 1.97 | 0.49 | -1.31 | | |
| 1.86 | 0.11 | -1.61 | | |
| 1.81 | -0.35 | -2.03 | | |
| 1.41 | -2.49 | -3.81 | | |
| 1.37 | 3.6 | 2.32 | | |
| 1.35 | -2.16 | -3.41 | | |
| 1.28 | 0.62 | -0.57 | | |
| 1.15 | -3.83 | -4.86 | | |
| 1.13 | 0.69 | -0.31 | | |
| 1.13 | 0.55 | -0.45 | | |
| -6.51 | -2.26 | -0.38 | | |
| 2.73 | 0.02 | -1.94 | | |
| 1.71 | -3.44 | -4.72 | | |
| 1.65 | -0.76 | -2 | | |
| 1.54 | -0.95 | -2.08 | | |
| 1.47 | -3.07 | -4.14 | | |
| 1.44 | 0.56 | -0.48 | | |
| -3.82 | -3.24 | -1.81 | | |
| 3.3 | 2.59 | 0.63 | | |
| 2.49 | -2.18 | -3.73 | | |
| 2.37 | -0.6 | -2.09 | | |
| 1.74 | -0.46 | -1.5 | | |
| 2.21 | 1.72 | -0.24 | | |
| -3.53 | -0.99 | 0.02 | | |
| -3.89 | -0.58 | 0.56 | | |
| 1.7 | -1.57 | -3.52 | | |
| 1.61 | -3.46 | -5.34 | | |
| 1.44 | -2.36 | -4.07 | | |
| 1.24 | -0.76 | -2.26 | | |
| 1.13 | -1.8 | -3.17 | | |
| 1.09 | -0.46 | -1.76 | | |
| 1.07 | -0.11 | -1.4 | | |
| 1.06 | -1.49 | -2.77 | | |
| 1 | -1.81 | -3 | | |
| -1.03 | -2.64 | -3.79 | | |
| -1.05 | 0.05 | -1.07 | | |
| -1.06 | -2.89 | -3.99 | | |
| -1.08 | 0.12 | -0.96 | | |
| -1.08 | -1.41 | -2.49 | | |
| -1.09 | 0.4 | -0.66 | | |
| -1.1 | -1.14 | -2.19 | | |
| -1.12 | -1.43 | -2.46 | | |
| -1.12 | 2.3 | 1.27 | | |
| -1.13 | -1.26 | -2.28 | | |
| -4.67 | -3.3 | -2.26 | | |
| -5.46 | -1.58 | -0.32 | | |
| 4.21 | 0.99 | -0.97 | | |
| 2.23 | 0.17 | -0.88 | | |
| -2.39 | -2.04 | -0.67 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.1 | -1.75 | -3.71 | | |
| 1.97 | -4.71 | -6.01 | | |
| 1.66 | -1.08 | -2.14 | | |
| -2.5 | -3.88 | -2.88 | | |
| 3.37 | -1.67 | -3.62 | | |
| 2.89 | 1.87 | 0.14 | | |
| 1.87 | -1.89 | -2.99 | | |
| -2.49 | -2.95 | -1.83 | | |
| 3.31 | 0.45 | -1.51 | | |
| 2.16 | -1.92 | -3.26 | | |
| 2.05 | -4.66 | -5.93 | | |
| 1.75 | -2.44 | -3.48 | | |
| 2.55 | -3.61 | -5.56 | | |
| 2.54 | -1.96 | -3.91 | | |
| 1.85 | -2.22 | -3.71 | | |
| 1.77 | -5.11 | -6.54 | | |
| -3.07 | -2.84 | -1.83 | | |
| 3.81 | -0.26 | -2.21 | | |
| 2 | -1.52 | -2.54 | | |
| 2.67 | -1.95 | -3.9 | | |
| 1.73 | 2.08 | 0.76 | | |
| 1.48 | 0.28 | -0.83 | | |
| -4.58 | -3.2 | -1.54 | | |
| 9.63 | 1.13 | -0.82 | | |
| 5.23 | 0.95 | -0.12 | | |
| 5.16 | -3.07 | -4.12 | | |
| 1.23 | -0.87 | 0.15 | | |
| 1.03 | 2.64 | 3.91 | | |
| -1.05 | -0.85 | 0.53 | | |
| -1.06 | -2.49 | -1.09 | | |
| 3.8 | -2.57 | -4.53 | | |
| 2.95 | -1.55 | -3.14 | | |
| -2.23 | -3.71 | -2.59 | | |
| 5.31 | -0.98 | -2.93 | | |
| 4.64 | -1.49 | -3.25 | | |
| 3.83 | 1.34 | -0.14 | | |
| 3.77 | -0.11 | -1.57 | | |
| 3.56 | -1.86 | -3.23 | | |
| 3.44 | -2.64 | -4.6 | | |
| 2 | -0.44 | -1.62 | | |
| 1.92 | -2.56 | -3.67 | | |
| 1.82 | -0.96 | -2 | | |
| -2.28 | -1.01 | 0 | | |
| 10.53 | -0.92 | -2.87 | | |
| 7.69 | 0.31 | -1.19 | | |
| 6.22 | 0.14 | -1.05 | | |
| 6.1 | 0 | -1.17 | | |
| 5.65 | -0.07 | -1.13 | | |
| 1.06 | -3.73 | -2.37 | | |
| 1.04 | -1.29 | 0.09 | | |
| -1.01 | -2.09 | -0.63 | | |
| -1.09 | 4.48 | 6.05 | | |
| 3.77 | -3.96 | -5.92 | | |
| 2.01 | -1.52 | -2.56 | | |
| 2.01 | 2.93 | 1.89 | | |
| -2.43 | -1.21 | 0.04 | | |
| -2.81 | -2.84 | -1.38 | | |
| 2.57 | -2.13 | -4.08 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.63 | 2.56 | 1.27 | | |
| 1.4 | 0.94 | -0.13 | | |
| 1.37 | 0.55 | -0.49 | | |
| -3.09 | -2.37 | -1.33 | | |
| -4.08 | -1.63 | -0.19 | | |
| 1.44 | -6.18 | -8.13 | | |
| 1.25 | -1.2 | -2.95 | | |
| 1.21 | -2.84 | -4.53 | | |
| 1.18 | -3.89 | -5.55 | | |
| 1.13 | -2.41 | -4.01 | | |
| -1.16 | -1.28 | -2.49 | | |
| 1.54 | -2.47 | -4.42 | | |
| 1.28 | -1.89 | -3.58 | | |
| 1.27 | -3.29 | -4.96 | | |
| 1.06 | -0.23 | -1.63 | | |
| -1.03 | -4.32 | -5.6 | | |
| -1.08 | -0.39 | -1.61 | | |
| -1.25 | 3.86 | 2.86 | | |
| -5.85 | -3.44 | -2.21 | | |
| -6.07 | -1.87 | -0.59 | | |
| 3.63 | -0.27 | -2.22 | | |
| 2.46 | -0.92 | -2.31 | | |
| 1.28 | 1.69 | -0.26 | | |
| 1.26 | -0.97 | -2.89 | | |
| 1.25 | -0.7 | -2.62 | | |
| 1.13 | 1.63 | -0.14 | | |
| 1.11 | 2.69 | 0.94 | | |
| 1.07 | 4.12 | 2.43 | | |
| 1.04 | 1.76 | 0.1 | | |
| -1 | 2.13 | 0.53 | | |
| -1.09 | -1.88 | -3.36 | | |
| -1.11 | 3.84 | 2.39 | | |
| -1.27 | 0.21 | -1.04 | | |
| -1.32 | 1.83 | 0.64 | | |
| -1.33 | 0.9 | -0.29 | | |
| -1.35 | 5.1 | 3.94 | | |
| -1.41 | 1.07 | -0.04 | | |
| -6.74 | -0.72 | 0.44 | | |
| -7.35 | -1.42 | -0.14 | | |
| -13.92 | -2.88 | -0.68 | | |
| 2.77 | 2.39 | 0.44 | | |
| 1.81 | 1.14 | -0.2 | | |
| 1.74 | 3.97 | 2.69 | | |
| 1.56 | -0.33 | -1.44 | | |
| 17.63 | 0.84 | -1.11 | | |
| -1.36 | 2.32 | 4.96 | | |
| 5.33 | -0.35 | -2.3 | | |
| 5.02 | 0.37 | -1.49 | | |
| 3.68 | -0.16 | -2.1 | | |
| 2.47 | -4.75 | -6.12 | | |
| -2.22 | -3.31 | -2.22 | | |
| -2.78 | -3.48 | -2.07 | | |
| -2.82 | -3.85 | -2.42 | | |
| -3.27 | -2.74 | -1.09 | | |
| 2.37 | -0.9 | -2.84 | | |
| 1.97 | -2.22 | -3.9 | | |
| 1.79 | -2.19 | -3.73 | | |
| 1.62 | -1.86 | -3.26 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.52 | 0.19 | -1.11 | | |
| 1.44 | -2.13 | -3.35 | | |
| 1.42 | 0.55 | -0.66 | | |
| 1.33 | -0.74 | -1.85 | | |
| 1.28 | -1.14 | -2.2 | | |
| 1.26 | -1.59 | -2.62 | | |
| 1.26 | -0.98 | -2.01 | | |
| 1.25 | -0.24 | -1.26 | | |
| 3.36 | -2.67 | -4.61 | | |
| 1.86 | -4.11 | -5.19 | | |
| -2.79 | -2.45 | -1.17 | | |
| -2.94 | -3.26 | -1.9 | | |
| 14.75 | 1.62 | -0.32 | | |
| 11.11 | 1.24 | -0.29 | | |
| 10.7 | 1.33 | -0.15 | | |
| 1.54 | -1.62 | -0.3 | | |
| 1.52 | -1.79 | -0.45 | | |
| 1.47 | 1.54 | 2.92 | | |
| 1.4 | -1.13 | 0.32 | | |
| 1.39 | -1.98 | -0.52 | | |
| 1.1 | -2.38 | -0.57 | | |
| 1.38 | -1.76 | -3.7 | | |
| -1.33 | 2.36 | 1.29 | | |
| -1.38 | -3.03 | -4.04 | | |
| -7.37 | -0.09 | 1.32 | | |
| -7.56 | -1.73 | -0.29 | | |
| 6.68 | 3.48 | 1.54 | | |
| -1.27 | -2.97 | -1.84 | | |
| 10.47 | 2.57 | 0.62 | | |
| 5.61 | 0.08 | -0.96 | | |
| 1.25 | -0.55 | 0.58 | | |
| 1.24 | 2.39 | 3.53 | | |
| 1.01 | 1.69 | 3.12 | | |
| 9.09 | -0.25 | -2.2 | | |
| 5.27 | 0.8 | -0.36 | | |
| 1.15 | 2.29 | 3.33 | | |
| -1.32 | -3.69 | -2.04 | | |
| 1.62 | -0.87 | -2.81 | | |
| 1.56 | -2.23 | -4.11 | | |
| 1.29 | 5.28 | 3.66 | | |
| -1.04 | 1.32 | 0.13 | | |
| -1.06 | 1.34 | 0.17 | | |
| -1.09 | 5.73 | 4.61 | | |
| -1.14 | 0.01 | -1.04 | | |
| -5.06 | -2.16 | -1.07 | | |
| -5.1 | -2.31 | -1.21 | | |
| 4.81 | 2.33 | 0.39 | | |
| -1.71 | -2.52 | -1.42 | | |
| 3.04 | 1.25 | -0.69 | | |
| 1.75 | -1.55 | -2.69 | | |
| -3.02 | -2.32 | -1.06 | | |
| 2.79 | -5.35 | -7.29 | | |
| 1.67 | -4.09 | -5.28 | | |
| -3.16 | -4.79 | -3.58 | | |
| -3.19 | -3.61 | -2.39 | | |
| -3.86 | -6.89 | -5.4 | | |
| 6.48 | -0.95 | -2.89 | | |
| -1.5 | 1.83 | 3.18 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.32 | -1.27 | -3.21 | | |
| 2.22 | 1.57 | 0.21 | | |
| 2.02 | -2.71 | -3.93 | | |
| 1.84 | 0.61 | -0.48 | | |
| 1.83 | -0.99 | -2.07 | | |
| 3.96 | 2.3 | 0.37 | | |
| -2 | -1.01 | 0.03 | | |
| -2.73 | -1.96 | -0.46 | | |
| 3.93 | 0.39 | -1.55 | | |
| 3.58 | -1.18 | -2.98 | | |
| 2.19 | -0.45 | -1.54 | | |
| 1.76 | 2.32 | 0.38 | | |
| 1.48 | 2.64 | 0.96 | | |
| 1.38 | 0.74 | -0.84 | | |
| 1.27 | 0.73 | -0.73 | | |
| 1.05 | -1.47 | -2.66 | | |
| 1 | 1.85 | 0.72 | | |
| -1.03 | -2.32 | -3.41 | | |
| -1.03 | -2.89 | -3.97 | | |
| -1.03 | -1.11 | -2.18 | | |
| -1.08 | -3.11 | -4.11 | | |
| -4.78 | -3.46 | -2.32 | | |
| -5.93 | -1.33 | 0.12 | | |
| 6.34 | -3.13 | -5.07 | | |
| -1.46 | -4.17 | -2.9 | | |
| 3.97 | -3.25 | -5.19 | | |
| -2.1 | -4.75 | -3.62 | | |
| -2.22 | -6.9 | -5.7 | | |
| -3.14 | -5.85 | -4.14 | | |
| 3.64 | -1.04 | -2.98 | | |
| 2.93 | -2.63 | -4.25 | | |
| 2.2 | -2.3 | -3.51 | | |
| 2.77 | 2.89 | 0.96 | | |
| 1.81 | 1.64 | 0.32 | | |
| 1.74 | 4.47 | 3.21 | | |
| 1.56 | 0.18 | -0.92 | | |
| 4.05 | -0.65 | -2.58 | | |
| -3.93 | 0.49 | 2.55 | | |
| 4.11 | -2.33 | -4.26 | | |
| 3.07 | -2.82 | -4.33 | | |
| 2.17 | -1.84 | -2.85 | | |
| -2.05 | -2.5 | -1.36 | | |
| -2.16 | -3.66 | -2.45 | | |
| 2.77 | 2.89 | 0.96 | | |
| 1.81 | 1.64 | 0.32 | | |
| 1.74 | 4.47 | 3.21 | | |
| 1.56 | 0.18 | -0.92 | | |
| 6.28 | -0.6 | -2.53 | | |
| 5.39 | 0.43 | -1.28 | | |
| 3.81 | -1.02 | -2.23 | | |
| 3.53 | 0.75 | -0.35 | | |
| 4.37 | -0.01 | -1.94 | | |
| 2.82 | 1.01 | -0.29 | | |
| 2.82 | 4.24 | 2.94 | | |
| 2.39 | 1.59 | 0.53 | | |
| -2.07 | -2.85 | -1.6 | | |
| 8.49 | 0.44 | -1.49 | | |
| 1.05 | 1.46 | 2.55 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.32 | -3.04 | -1.48 | | |
| 1.94 | -7.21 | -9.14 | | |
| 1.76 | -3.21 | -4.99 | | |
| 1.08 | -3.29 | -4.36 | | |
| 1.08 | -4.53 | -5.6 | | |
| 1.06 | -6.03 | -7.07 | | |
| -4.74 | -6.08 | -4.81 | | |
| 48.99 | -0.32 | -2.24 | | |
| 40.04 | -1.38 | -3.02 | | |
| 32.85 | -0.18 | -1.53 | | |
| 31.82 | -1.22 | -2.52 | | |
| 5.19 | -1.67 | -0.36 | | |
| 3.48 | -0.93 | 0.95 | | |
| 1.98 | -6.35 | -3.65 | | |
| 1.97 | -5.79 | -3.08 | | |
| 1.81 | -7.28 | -4.45 | | |
| 1.65 | -4.81 | -1.84 | | |
| 1.63 | -4.31 | -1.32 | | |
| 1.28 | -6.67 | -3.33 | | |
| 1.04 | -7.79 | -4.16 | | |
| -1.01 | -6.55 | -2.84 | | |
| -1.04 | 0.87 | 4.61 | | |
| 1.87 | 2.17 | 0.24 | | |
| -4.07 | -3.4 | -2.4 | | |
| 1.81 | 4.39 | 2.47 | | |
| 1.25 | 3.33 | 1.93 | | |
| 1.16 | 1.35 | 0.06 | | |
| -5.22 | -2.57 | -1.26 | | |
| -5.37 | -2.92 | -1.57 | | |
| 2.03 | -2.47 | -4.4 | | |
| 1.75 | 3.65 | 1.93 | | |
| 1.22 | 0.16 | -1.03 | | |
| 1.21 | -1.13 | -2.31 | | |
| 1.21 | -3.89 | -5.07 | | |
| 1.2 | -0.45 | -1.62 | | |
| 1.18 | -0.89 | -2.03 | | |
| 1.12 | -0.65 | -1.72 | | |
| 1.09 | -0.94 | -1.96 | | |
| 4.05 | 4.13 | 2.21 | | |
| 2.92 | -0.81 | -2.26 | | |
| 2.86 | -0.04 | -1.47 | | |
| -2.42 | -0.56 | 0.81 | | |
| 2.19 | -2.69 | -4.62 | | |
| 2.01 | 1.07 | -0.73 | | |
| 1.43 | -1.36 | -2.67 | | |
| 1.38 | 0.16 | -1.1 | | |
| 1.32 | -2.74 | -3.93 | | |
| 1.31 | -1.84 | -3.02 | | |
| 2.5 | -0.81 | -2.73 | | |
| 1.96 | 1.85 | 0.28 | | |
| 1.61 | 0.43 | -0.86 | | |
| 1.54 | 0.5 | -0.72 | | |
| 1.23 | -4.58 | -6.5 | | |
| -1.12 | -0.83 | -2.3 | | |
| -1.21 | -3.47 | -4.81 | | |
| -1.48 | -3.6 | -4.66 | | |
| -1.49 | -2.81 | -3.85 | | |
| -6.51 | -3.78 | -2.7 | | |

| | | | | |
|--------|-------|-------|--|--|
| -7.91 | -4.69 | -3.33 | | |
| -8.84 | -3.51 | -1.99 | | |
| -9.07 | -1.24 | 0.32 | | |
| -9.69 | -5.79 | -4.14 | | |
| -10.47 | -2.76 | -1 | | |
| -13.23 | -3.42 | -1.31 | | |
| -15.46 | -2.99 | -0.67 | | |
| 3.4 | 3.5 | 1.58 | | |
| -2.34 | -2.11 | -1.03 | | |
| -2.55 | -5.35 | -4.16 | | |
| 3.05 | 3.32 | 1.39 | | |
| 2.38 | 2.17 | 0.61 | | |
| 2.12 | -1.05 | -2.44 | | |
| 2.08 | -0.58 | -1.95 | | |
| 1.95 | -2.44 | -4.37 | | |
| 1.38 | -1.97 | -3.39 | | |
| 1.32 | -0.65 | -2.01 | | |
| 1.27 | -1.14 | -2.44 | | |
| 1.18 | -1.85 | -3.05 | | |
| -4.12 | -1.6 | -0.52 | | |
| -4.66 | -1.44 | -0.18 | | |
| -6.61 | -2.44 | -0.68 | | |
| -7.33 | -3.7 | -1.79 | | |
| 2.55 | -0.95 | -2.87 | | |
| 1.44 | 0.54 | -0.55 | | |
| -3.15 | -1.96 | -0.87 | | |
| -3.96 | -1.54 | -0.13 | | |
| 4.02 | -2.54 | -4.46 | | |
| 3.37 | -2.27 | -3.94 | | |
| 3.35 | -5.23 | -6.88 | | |
| 3.3 | -3.11 | -4.75 | | |
| 2.45 | -3.5 | -4.71 | | |
| -2.79 | -5.12 | -3.56 | | |
| 2.17 | 1.48 | -0.44 | | |
| 1.62 | 0.25 | -1.25 | | |
| 1.55 | 2.15 | 0.72 | | |
| 1.42 | 0.38 | -0.92 | | |
| 1.36 | 4.49 | 3.25 | | |
| 1.31 | 6.24 | 5.05 | | |
| 1.23 | 2.63 | 1.54 | | |
| 1.2 | -0.86 | -1.92 | | |
| 1.15 | 0.24 | -0.77 | | |
| -3.61 | -1.06 | -0.01 | | |
| 3.48 | -2.91 | -4.83 | | |
| 3.14 | 0.95 | -0.83 | | |
| 2.42 | -4.42 | -5.82 | | |
| 2.17 | -1.75 | -2.99 | | |
| -4.37 | -4.43 | -2.42 | | |
| 3.74 | -0.15 | -2.07 | | |
| 2.62 | -0.03 | -1.43 | | |
| -2.11 | -5.58 | -4.52 | | |
| -3.12 | -3.86 | -2.23 | | |
| 1.99 | -0.83 | -2.74 | | |
| 1.91 | -1.71 | -3.57 | | |
| 1.39 | -1.34 | -2.73 | | |
| 1.21 | -1.74 | -2.95 | | |
| 1.21 | -0.75 | -1.94 | | |
| 1.17 | 1.55 | 0.4 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.09 | 1.52 | 0.46 | | |
| 1.09 | 1.39 | 0.34 | | |
| 1.06 | 2.41 | 1.41 | | |
| -3.82 | -1.98 | -0.97 | | |
| -3.92 | -2.23 | -1.18 | | |
| -4.05 | -1.27 | -0.18 | | |
| -4.43 | -2.08 | -0.86 | | |
| -7.48 | -2.29 | -0.32 | | |
| 2.56 | -2.45 | -4.37 | | |
| 1.84 | -2.58 | -4.02 | | |
| 1.68 | -3.87 | -5.18 | | |
| 1.4 | -2.3 | -3.34 | | |
| 2.19 | -3.66 | -5.58 | | |
| 1.45 | -2.19 | -3.52 | | |
| 1.23 | -3.82 | -4.91 | | |
| 2.17 | -1.52 | -3.44 | | |
| 1.31 | -4.13 | -5.31 | | |
| 1.18 | -2.73 | -3.77 | | |
| 1.69 | -0.22 | -2.14 | | |
| 1.51 | -1.56 | -3.3 | | |
| 1.5 | 2.52 | 0.77 | | |
| 1.45 | 2.06 | 0.36 | | |
| 1.34 | 3.36 | 1.79 | | |
| 1.33 | 1.79 | 0.22 | | |
| 1.3 | 1.5 | -0.04 | | |
| 1.18 | 2.67 | 1.28 | | |
| 1.16 | -0.38 | -1.74 | | |
| 1.12 | 2.1 | 0.78 | | |
| 1.1 | 0.15 | -1.14 | | |
| 1.06 | 1.46 | 0.23 | | |
| 1.05 | -0.05 | -1.28 | | |
| 1.04 | 2.3 | 1.09 | | |
| 1.04 | 2.29 | 1.08 | | |
| 1.02 | 0.55 | -0.63 | | |
| 1 | 3.41 | 2.25 | | |
| -1.02 | 0.24 | -0.89 | | |
| -1.02 | 1.87 | 0.75 | | |
| -1.02 | 1.86 | 0.73 | | |
| -1.02 | 2.88 | 1.76 | | |
| -1.05 | 2.52 | 1.43 | | |
| -1.05 | 1.41 | 0.32 | | |
| -1.06 | 2.47 | 1.39 | | |
| -1.07 | 1.02 | -0.04 | | |
| -1.07 | 4.58 | 3.53 | | |
| -1.08 | 0.35 | -0.7 | | |
| -1.08 | 1.53 | 0.49 | | |
| -1.09 | -1.52 | -2.55 | | |
| -1.09 | 1.89 | 0.86 | | |
| -1.09 | 1.18 | 0.14 | | |
| -1.09 | 3.1 | 2.07 | | |
| -1.09 | 1.14 | 0.11 | | |
| -1.09 | 2.21 | 1.18 | | |
| -1.11 | 0.38 | -0.63 | | |
| 6.47 | -0.45 | -2.37 | | |
| 4.8 | -0.46 | -1.94 | | |
| 4.56 | 0.49 | -0.92 | | |
| 3.66 | 1.07 | -0.03 | | |
| 3.62 | -0.78 | -1.85 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.2 | 0.9 | 1.95 | | |
| -1.36 | 0.31 | 1.54 | | |
| -1.46 | -2.08 | -0.76 | | |
| -1.57 | 1 | 2.43 | | |
| -1.58 | 1.18 | 2.62 | | |
| -4.42 | -2.81 | 0.12 | | |
| 1.93 | -0.46 | -2.37 | | |
| -4.1 | -1.07 | 0 | | |
| 2.63 | -0.94 | -2.86 | | |
| 2.09 | -0.7 | -2.28 | | |
| 1.45 | 1.58 | 0.52 | | |
| -4.25 | -2.38 | -0.81 | | |
| 1.73 | 0.4 | -1.51 | | |
| 1.11 | 2.76 | 1.49 | | |
| -1.06 | -2.33 | -3.36 | | |
| -6.63 | -3.55 | -1.94 | | |
| 1.97 | -1.68 | -3.59 | | |
| 1.94 | -1.51 | -3.4 | | |
| 1.7 | -3.77 | -5.47 | | |
| 1.65 | -3.94 | -5.59 | | |
| 1.36 | -3.34 | -4.72 | | |
| 1.24 | -2.45 | -3.69 | | |
| 1.2 | -5.04 | -6.24 | | |
| 1.17 | -3.86 | -5.02 | | |
| 1.16 | -4.71 | -5.85 | | |
| 1.09 | -4.05 | -5.11 | | |
| 1.06 | -0.26 | -1.27 | | |
| 1.66 | 2.66 | 0.75 | | |
| 1.46 | 4.36 | 2.63 | | |
| 1.21 | -0.95 | -2.41 | | |
| -1.14 | 1.34 | 0.34 | | |
| -4.83 | 0.58 | 1.67 | | |
| -4.94 | 0.54 | 1.66 | | |
| 2.78 | -0.18 | -2.09 | | |
| 2.14 | -0.18 | -1.71 | | |
| -2.87 | -3.18 | -2.09 | | |
| -3.24 | -1.61 | -0.34 | | |
| -4.15 | -4.43 | -2.81 | | |
| 4.04 | 3.7 | 1.79 | | |
| 3 | 2.78 | 1.3 | | |
| 2.17 | 2.92 | 1.91 | | |
| 1.38 | 3.25 | 1.34 | | |
| -8.57 | 0.23 | 1.88 | | |
| 2.34 | 0.7 | -1.21 | | |
| 1.25 | 3.39 | 2.38 | | |
| -4.14 | -1.51 | -0.15 | | |
| 4.3 | 3.33 | 1.42 | | |
| -1.88 | -4.74 | -3.63 | | |
| -2.25 | 0.52 | 1.88 | | |
| 3.23 | -1.23 | -3.14 | | |
| -2.52 | -3.09 | -1.98 | | |
| -3.74 | -4.54 | -2.86 | | |
| 5.96 | -0.24 | -2.15 | | |
| 4.08 | -0.09 | -1.45 | | |
| 3.42 | -2.54 | -3.65 | | |
| -1.3 | 0.73 | 1.77 | | |
| -1.31 | -2.91 | -1.86 | | |
| 3.59 | 0.39 | -1.53 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.25 | 0.08 | 1.18 | | |
| 2.77 | 2.87 | 0.96 | | |
| 1.81 | 1.62 | 0.32 | | |
| 1.74 | 4.45 | 3.21 | | |
| 1.56 | 0.16 | -0.92 | | |
| 2.77 | 2.87 | 0.96 | | |
| 1.81 | 1.62 | 0.32 | | |
| 1.74 | 4.45 | 3.21 | | |
| 1.56 | 0.16 | -0.92 | | |
| 2.53 | -1.69 | -3.59 | | |
| 2.4 | -0.64 | -2.47 | | |
| 1.47 | -1.9 | -3.02 | | |
| 1.42 | 1.18 | 0.1 | | |
| 1.35 | -0.63 | -1.63 | | |
| 1.52 | -2.24 | -4.15 | | |
| 1.24 | -3.59 | -5.2 | | |
| 1.05 | 1.51 | 0.15 | | |
| -1.08 | 0.29 | -0.9 | | |
| -1.1 | -1.34 | -2.5 | | |
| 1.5 | 0.31 | -1.59 | | |
| 1.28 | 1.04 | -0.64 | | |
| 1.24 | -1.39 | -3.02 | | |
| 1.19 | -1.79 | -3.37 | | |
| 1.13 | 2.16 | 0.65 | | |
| 1.1 | 1.53 | 0.07 | | |
| 1.08 | 0.53 | -0.9 | | |
| 1.03 | 0.49 | -0.87 | | |
| 1.02 | 0.67 | -0.69 | | |
| 1 | 2.13 | 0.8 | | |
| -1 | -0.65 | -1.97 | | |
| -1 | -2.22 | -3.54 | | |
| -1.06 | -0.49 | -1.73 | | |
| -1.09 | -1.92 | -3.12 | | |
| -1.21 | -1.04 | -2.09 | | |
| -6.56 | -2.49 | -1.1 | | |
| 2.26 | 0.12 | -1.79 | | |
| 2.06 | -2.77 | -4.54 | | |
| 1.98 | -1.3 | -3.01 | | |
| 1.55 | -0.15 | -1.51 | | |
| 1.41 | 2.86 | 1.64 | | |
| 1.32 | -2.88 | -4.01 | | |
| 1.22 | 0.98 | -0.04 | | |
| 1.21 | -2.55 | -3.56 | | |
| -5.04 | -3.36 | -1.75 | | |
| 2.44 | 0.25 | -1.65 | | |
| 2.23 | -0.73 | -2.5 | | |
| 1.73 | 3.18 | 1.78 | | |
| 4.83 | 1.4 | -0.5 | | |
| 2.73 | 1.56 | 0.48 | | |
| -1.03 | 3.42 | 1.52 | | |
| -1.11 | 1.93 | 0.13 | | |
| -1.28 | 1.37 | -0.23 | | |
| -1.45 | 0.24 | -1.18 | | |
| -1.66 | 0.83 | -0.4 | | |
| 3.35 | -0.2 | -2.11 | | |
| -3.37 | -1.64 | -0.05 | | |
| 1.49 | 0.73 | -1.18 | | |
| 1.01 | 2.06 | 0.73 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.07 | 2.34 | 1.11 | | |
| 5.11 | -0.12 | -2.02 | | |
| 4.03 | 0.24 | -1.32 | | |
| 4.02 | 1.98 | 0.42 | | |
| 3.87 | 0.74 | -0.76 | | |
| 3.07 | 0.75 | -0.42 | | |
| -1.54 | -1.46 | -0.39 | | |
| -1.9 | -0.35 | 1.03 | | |
| -1.96 | -3.67 | -2.25 | | |
| -2.25 | -0.7 | 0.92 | | |
| -3.37 | -5.16 | -2.96 | | |
| 1.89 | 3.94 | 2.03 | | |
| 1.6 | 0.72 | -0.95 | | |
| 1.35 | 1.88 | 0.45 | | |
| 1.21 | 4.57 | 3.31 | | |
| 1.2 | 7.13 | 5.88 | | |
| -4 | -1.56 | -0.55 | | |
| 2.76 | 1.38 | -0.53 | | |
| -3.49 | 0.31 | 1.67 | | |
| -4.45 | -0.33 | 1.38 | | |
| 2.99 | -2.67 | -4.57 | | |
| 2.28 | 2.54 | 1.02 | | |
| 1.82 | 0.25 | -0.94 | | |
| 1.65 | -0.41 | -1.46 | | |
| -2.58 | -2.52 | -1.47 | | |
| -2.7 | -0.85 | 0.25 | | |
| -5.45 | -3.61 | -1.48 | | |
| 1.63 | 0.54 | -1.36 | | |
| 1.44 | -0.81 | -2.54 | | |
| 1.24 | 1.36 | -0.15 | | |
| 1.12 | -3.81 | -5.17 | | |
| -1.04 | -1.44 | -2.58 | | |
| -1.11 | -3.02 | -4.07 | | |
| 3 | -0.15 | -2.05 | | |
| -3.39 | -5.42 | -3.97 | | |
| 2.11 | -0.72 | -2.62 | | |
| 1.79 | -1.08 | -2.74 | | |
| 1.68 | -1.98 | -3.55 | | |
| 1.61 | -1.98 | -3.5 | | |
| 1.46 | -2.09 | -3.46 | | |
| 1.44 | -1.85 | -3.2 | | |
| 1.42 | -2.59 | -3.92 | | |
| 1.39 | -2.73 | -4.03 | | |
| 1.33 | -0.85 | -2.08 | | |
| 1.31 | -1.88 | -3.09 | | |
| 1.31 | -1.94 | -3.15 | | |
| 1.29 | -6.92 | -8.12 | | |
| 1.25 | -1.58 | -2.72 | | |
| 1.23 | -3.66 | -4.78 | | |
| 1.2 | -2.58 | -3.67 | | |
| 1.2 | -1.29 | -2.38 | | |
| 1.18 | -2.22 | -3.28 | | |
| 3.17 | -3.87 | -5.77 | | |
| 1.97 | -2.24 | -3.45 | | |
| 2.24 | -0.38 | -2.28 | | |
| 1.6 | -0.11 | -1.52 | | |
| 1.88 | -1.79 | -3.69 | | |
| 1.68 | 2.1 | 0.36 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.43 | 5.08 | 3.57 | | |
| 1.38 | 1.75 | 0.29 | | |
| 1.36 | -0.85 | -2.28 | | |
| 1.35 | 2.11 | 0.68 | | |
| 1.21 | 3.29 | 2.02 | | |
| 1.18 | -0.29 | -1.51 | | |
| 1.15 | 0.02 | -1.17 | | |
| 1.1 | 1.05 | -0.07 | | |
| 1.07 | 1.26 | 0.17 | | |
| 1.06 | -1.42 | -2.49 | | |
| 1.06 | 2.02 | 0.95 | | |
| 1.06 | 1.82 | 0.75 | | |
| -4.04 | -1.03 | 0 | | |
| -4.49 | -2.24 | -1.06 | | |
| 3.24 | -0.75 | -2.65 | | |
| 2.18 | -0.18 | -1.5 | | |
| 2.38 | -0.46 | -2.36 | | |
| 1.32 | -0.1 | -1.14 | | |
| -3.18 | -1.07 | -0.05 | | |
| -5.19 | -2.63 | -0.9 | | |
| 2.4 | -1.91 | -3.8 | | |
| 1.42 | -0.26 | -1.4 | | |
| 1.4 | 0.14 | -0.97 | | |
| -5.98 | -2.21 | -0.26 | | |
| -6.53 | -3.19 | -1.11 | | |
| -8.19 | -2.72 | -0.31 | | |
| 2.36 | 0.46 | -1.43 | | |
| 1.77 | -2.61 | -4.09 | | |
| 1.32 | -3.43 | -4.5 | | |
| 3.08 | 0.25 | -1.65 | | |
| 2.65 | -0.31 | -1.99 | | |
| 2.06 | 0.17 | -1.15 | | |
| 1.97 | 0.89 | -0.36 | | |
| 1.88 | -0.7 | -1.88 | | |
| 1.72 | -1.87 | -2.92 | | |
| -2.45 | 0.78 | 1.8 | | |
| -2.49 | -1.11 | -0.07 | | |
| -2.68 | -0.93 | 0.22 | | |
| -3.46 | -2.65 | -1.13 | | |
| -3.56 | -2.5 | -0.94 | | |
| 2.53 | -3.43 | -5.32 | | |
| 1.64 | -4.01 | -5.28 | | |
| 1.45 | -1.62 | -2.72 | | |
| -3.11 | -3.89 | -2.81 | | |
| 2.95 | 1.88 | -0.02 | | |
| -3.32 | 0.27 | 1.67 | | |
| -3.76 | 0.16 | 1.74 | | |
| 2.84 | 0.98 | -0.92 | | |
| 1.97 | 4.17 | 2.8 | | |
| 1.92 | 6.23 | 4.9 | | |
| 4.32 | -0.28 | -2.17 | | |
| 2.81 | 0.33 | -0.94 | | |
| 2.61 | -1.04 | -2.2 | | |
| 2.58 | 0.12 | -1.03 | | |
| 2.44 | -1 | -2.89 | | |
| -3.71 | -3.54 | -2.25 | | |
| 3.15 | 2.59 | 0.7 | | |
| 1.81 | 2.62 | 1.53 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.59 | -1.85 | -3.74 | | |
| 2.87 | -2.28 | -3.49 | | |
| 2.64 | -0.69 | -1.78 | | |
| -1.67 | 0.77 | 1.82 | | |
| -1.8 | -1.69 | -0.53 | | |
| 2.73 | -3.63 | -5.51 | | |
| 1.63 | -6.44 | -7.58 | | |
| -2.71 | -4.16 | -3.15 | | |
| -2.73 | -4.42 | -3.41 | | |
| -2.87 | -3.03 | -1.95 | | |
| -3.12 | -4.23 | -3.03 | | |
| 5.35 | 0.49 | -1.4 | | |
| 3.19 | 0.85 | -0.29 | | |
| 2.9 | -1.27 | -2.27 | | |
| -1.44 | -0.68 | 0.38 | | |
| 4.17 | -2.13 | -4.02 | | |
| 2.74 | -2.88 | -4.16 | | |
| 2.31 | -4.4 | -5.44 | | |
| 50.62 | -1.37 | -3.25 | | |
| 43.56 | -0.77 | -2.44 | | |
| 29.21 | 0.46 | -0.63 | | |
| 4.64 | -1.83 | -0.27 | | |
| 2.06 | -7.64 | -4.9 | | |
| 1.47 | -2.87 | 0.35 | | |
| 2.56 | -0.24 | -2.13 | | |
| 1.76 | -1.49 | -2.83 | | |
| 5.52 | 0.8 | -1.09 | | |
| 3.33 | 1.45 | 0.3 | | |
| 1.77 | -1.77 | -3.66 | | |
| 1.43 | -3.24 | -4.82 | | |
| 1.34 | -3.56 | -5.05 | | |
| 1.08 | -1.02 | -2.19 | | |
| -1.04 | -3.99 | -5 | | |
| -1.04 | -2.84 | -3.85 | | |
| -4.86 | -3.78 | -2.56 | | |
| 2.92 | 1.21 | -0.68 | | |
| 2.27 | 4.39 | 2.86 | | |
| 2.36 | 2.88 | 0.99 | | |
| 1.46 | 5.25 | 4.06 | | |
| 1.28 | 4.59 | 3.58 | | |
| 3.63 | -1.16 | -3.04 | | |
| 3.62 | -0.59 | -2.47 | | |
| -2.05 | -1.79 | -0.78 | | |
| -2.11 | -0.84 | 0.22 | | |
| 5.29 | 1.44 | -0.43 | | |
| 4.12 | 2.15 | 0.63 | | |
| -1.45 | -4.37 | -3.3 | | |
| -2.31 | -2.86 | -1.12 | | |
| 3.3 | 3.08 | 1.2 | | |
| 2.69 | 0.65 | -0.94 | | |
| 2.62 | 0.56 | -0.98 | | |
| 2.26 | 1.52 | 0.19 | | |
| 2.06 | -0.12 | -1.32 | | |
| 2.02 | 2.36 | 1.19 | | |
| 1.94 | 0.73 | -0.39 | | |
| 1.93 | 2.63 | 1.52 | | |
| 1.89 | 5.35 | 4.27 | | |
| -4.97 | -0.97 | 1.19 | | |

| | | | | |
|-------|-------|-------|--|--|
| 33.6 | 1.48 | -0.4 | | |
| 19.09 | -1.24 | -2.3 | | |
| 4.51 | 0.31 | 1.34 | | |
| 3.46 | -4.11 | -2.71 | | |
| 2.98 | 1.71 | 3.32 | | |
| 2.06 | -1.59 | 0.56 | | |
| 1.07 | -1.51 | 1.58 | | |
| -1.1 | 2.98 | 6.31 | | |
| -1.45 | -2.64 | 1.09 | | |
| 5.27 | 1.51 | -0.37 | | |
| 3.97 | 0.65 | -0.82 | | |
| 3.88 | 2.19 | 0.76 | | |
| 3.74 | 1.63 | 0.24 | | |
| 2.92 | 0.75 | -0.28 | | |
| -1.42 | -0.46 | 0.56 | | |
| -1.41 | -1.82 | -0.8 | | |
| -1.42 | 0.12 | 1.14 | | |
| -1.52 | -1.68 | -0.56 | | |
| -1.52 | -1.11 | 0.01 | | |
| -1.66 | -1.47 | -0.22 | | |
| -1.72 | -1.49 | -0.18 | | |
| -1.78 | -0.35 | 1.01 | | |
| -1.93 | -2.41 | -0.94 | | |
| -2.02 | -1.47 | 0.07 | | |
| -2.5 | -0.73 | 1.11 | | |
| 1.39 | -2.25 | -4.13 | | |
| 1.17 | 5.74 | 4.11 | | |
| 1.05 | 2.64 | 1.16 | | |
| -1.03 | -4.33 | -5.69 | | |
| -1.04 | -4.81 | -6.16 | | |
| -1.13 | 3.73 | 2.51 | | |
| -1.26 | -1.12 | -2.18 | | |
| -1.27 | 1.09 | 0.03 | | |
| -1.31 | -2.71 | -3.73 | | |
| -5.63 | -2.61 | -1.52 | | |
| -5.87 | -1.98 | -0.83 | | |
| -6.26 | -4.51 | -3.26 | | |
| -6.71 | -3.1 | -1.76 | | |
| 6.53 | 1.59 | -0.29 | | |
| 4.59 | 1.86 | 0.49 | | |
| 4.56 | 1.73 | 0.37 | | |
| -1.15 | 2.57 | 3.6 | | |
| -1.15 | -0.36 | 0.67 | | |
| -1.2 | 1.42 | 2.51 | | |
| -1.2 | 1.76 | 2.86 | | |
| -1.24 | 1.15 | 2.29 | | |
| -1.26 | 1.61 | 2.77 | | |
| -1.27 | -0.99 | 0.18 | | |
| -1.29 | 1.84 | 3.03 | | |
| -1.38 | -1.8 | -0.5 | | |
| 2.9 | -3.85 | -5.73 | | |
| 1.77 | -4.64 | -5.8 | | |
| 1.59 | -2.87 | -3.88 | | |
| 2.04 | -2.61 | -4.49 | | |
| 1.59 | -4.2 | -5.71 | | |
| 1.38 | -3.85 | -5.16 | | |
| 1.18 | -3.47 | -4.56 | | |
| 1.11 | -2 | -3 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.34 | -0.87 | -2.74 | | |
| 2.31 | -1.37 | -3.23 | | |
| 1.71 | -1.53 | -2.95 | | |
| 1.43 | -0.26 | -1.42 | | |
| 1.32 | 0.66 | -0.39 | | |
| -3.78 | -2.46 | -1.2 | | |
| 1.88 | 2.23 | 0.36 | | |
| 1.1 | -0.07 | -1.18 | | |
| 3.04 | 4.41 | 2.54 | | |
| -3.13 | -3.27 | -1.9 | | |
| -3.58 | -2.89 | -1.33 | | |
| 2.89 | 0.64 | -1.24 | | |
| -2.71 | -1.02 | 0.07 | | |
| -3.32 | -3.41 | -2.02 | | |
| 4.28 | 0.9 | -0.98 | | |
| -1.72 | -0.11 | 0.89 | | |
| 3.47 | 0.76 | -1.11 | | |
| 3.17 | -0.25 | -1.99 | | |
| 2.38 | -0.6 | -1.92 | | |
| 2.2 | 1.67 | 0.46 | | |
| 2.12 | 0.91 | -0.25 | | |
| -2.88 | -2.79 | -1.34 | | |
| 4.59 | -3.77 | -5.64 | | |
| -1.63 | -4.23 | -3.19 | | |
| -1.8 | -4.94 | -3.77 | | |
| -2.21 | -5.42 | -3.95 | | |
| -2.8 | -6.91 | -5.1 | | |
| 1.54 | 2.77 | 0.89 | | |
| 1.52 | 1.03 | -0.82 | | |
| 1.33 | 0.31 | -1.34 | | |
| 1.27 | 2.39 | 0.8 | | |
| 1.16 | 1.11 | -0.35 | | |
| 1.07 | 1.04 | -0.3 | | |
| 1.06 | 1.59 | 0.27 | | |
| 1.04 | -2.54 | -3.84 | | |
| 1.04 | 0.42 | -0.88 | | |
| -1.02 | 3.83 | 2.61 | | |
| -1.04 | -0.17 | -1.36 | | |
| -1.05 | 5.64 | 4.47 | | |
| -1.15 | 0.48 | -0.57 | | |
| -1.14 | 0.3 | -0.76 | | |
| -1.18 | 1.91 | 0.9 | | |
| -4.77 | -1.35 | -0.34 | | |
| -5.33 | 0.03 | 1.2 | | |
| -6.36 | -1.34 | 0.09 | | |
| -6.95 | -2.76 | -1.21 | | |
| -7.37 | -1.7 | -0.07 | | |
| -7.4 | -0.48 | 1.16 | | |
| -7.77 | -0.31 | 1.4 | | |
| -8.02 | -0.82 | 0.94 | | |
| -9.84 | -1.62 | 0.43 | | |
| -10.09 | -0.79 | 1.3 | | |
| -12.63 | -2.22 | 0.19 | | |
| -25.24 | -0.95 | 2.46 | | |
| -27.99 | -3.38 | 0.18 | | |
| 1.78 | -0.5 | -2.37 | | |
| 1.1 | -0.28 | -1.47 | | |
| 1.03 | 0.92 | -0.16 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.03 | 2.06 | 0.97 | | |
| -5 | 0.38 | 1.66 | | |
| -5.12 | -0.18 | 1.14 | | |
| -9.51 | -1.07 | 1.14 | | |
| 2.82 | -0.28 | -2.15 | | |
| 1.95 | -0.91 | -2.25 | | |
| 1.92 | -0.14 | -1.46 | | |
| 1.64 | 0.43 | -0.65 | | |
| 1.64 | -1.19 | -2.28 | | |
| -2.61 | -0.17 | 0.84 | | |
| -2.61 | -0.56 | 0.46 | | |
| -2.65 | -0.39 | 0.64 | | |
| -3.07 | -1.48 | -0.24 | | |
| -3.15 | -0.8 | 0.48 | | |
| 2.26 | -5.95 | -7.81 | | |
| 1.26 | -4.1 | -5.12 | | |
| 2.8 | 0.92 | -0.95 | | |
| 1.85 | -2.69 | -3.96 | | |
| 1.66 | -1.59 | -2.7 | | |
| 1.65 | 0.93 | -0.18 | | |
| -2.65 | -1.62 | -0.59 | | |
| -4.27 | -2.45 | -0.74 | | |
| 2.63 | -1.1 | -2.97 | | |
| 2.41 | -0.65 | -2.39 | | |
| 1.81 | 4.58 | 3.25 | | |
| 1.78 | -2.31 | -3.61 | | |
| 1.76 | -3.04 | -4.32 | | |
| 1.7 | -2.3 | -3.54 | | |
| 1.66 | -3.91 | -5.11 | | |
| 1.5 | -1.14 | -2.19 | | |
| 1.47 | -4.11 | -5.14 | | |
| 4.83 | -1.79 | -3.66 | | |
| -1.69 | -0.77 | 0.39 | | |
| -3.29 | -0.89 | 1.24 | | |
| 3.9 | -3.72 | -5.59 | | |
| -1.9 | -6.59 | -5.56 | | |
| -2.21 | -6.19 | -4.95 | | |
| -2.78 | -7.69 | -6.12 | | |
| 95.14 | 0.94 | -0.93 | | |
| 92.84 | 1.43 | -0.4 | | |
| 89.39 | 0.21 | -1.57 | | |
| 83.26 | 1.6 | -0.08 | | |
| 82.85 | 0.39 | -1.28 | | |
| 80.36 | 1.55 | -0.07 | | |
| 76.9 | 0.98 | -0.58 | | |
| 74.99 | 1.44 | -0.08 | | |
| 73.19 | 1.63 | 0.14 | | |
| 71.38 | 0.48 | -0.97 | | |
| 70.54 | 1.06 | -0.37 | | |
| 69.7 | 0.29 | -1.13 | | |
| 65.63 | 0.08 | -1.25 | | |
| 64.63 | -0.71 | -2.02 | | |
| 63.8 | -0.27 | -1.56 | | |
| 63.95 | -0.04 | -1.34 | | |
| 63.28 | -0.19 | -1.47 | | |
| 62.74 | 0.46 | -0.8 | | |
| 58.41 | 1.34 | 0.18 | | |
| 58.17 | 2.87 | 1.71 | | |

| | | | | |
|-------|-------|-------|--|--|
| 57.43 | 1.1 | -0.04 | | |
| 56.19 | 1.9 | 0.8 | | |
| 54.68 | 2.53 | 1.46 | | |
| 54.6 | 0.5 | -0.57 | | |
| 53.75 | 0.59 | -0.45 | | |
| 13.04 | 0.41 | 1.41 | | |
| 12.95 | -0.7 | 0.31 | | |
| 12.91 | -2.42 | -1.4 | | |
| 12.6 | -0.09 | 0.96 | | |
| 12.44 | -1.29 | -0.22 | | |
| 12.16 | -2.2 | -1.1 | | |
| 12.01 | -1.47 | -0.35 | | |
| 11.43 | -1.94 | -0.75 | | |
| 10.72 | -1.89 | -0.61 | | |
| 10.24 | -3.15 | -1.8 | | |
| 10.12 | 3.02 | 4.39 | | |
| 9.88 | -0.8 | 0.6 | | |
| 9.69 | -1.48 | -0.06 | | |
| 9.67 | -1.71 | -0.28 | | |
| 9 | -3.15 | -1.62 | | |
| 8.47 | -0.31 | 1.31 | | |
| 8.31 | -1.45 | 0.2 | | |
| 8.15 | 0.24 | 1.92 | | |
| 7.91 | -0.44 | 1.28 | | |
| 7.88 | -3.1 | -1.37 | | |
| 7.8 | -3.42 | -1.67 | | |
| 7.37 | -0.53 | 1.29 | | |
| 6.84 | -4.11 | -2.17 | | |
| 6.79 | -2.83 | -0.89 | | |
| 6.68 | -2.17 | -0.2 | | |
| 6.65 | -2.28 | -0.31 | | |
| 6.33 | -1.6 | 0.44 | | |
| 5.98 | -3.65 | -1.52 | | |
| 5.95 | -2.26 | -0.13 | | |
| 5.91 | 0.57 | 2.71 | | |
| 5.64 | -0.78 | 1.43 | | |
| 5.34 | -4.01 | -1.72 | | |
| 4.56 | 1 | 3.52 | | |
| 4.48 | 0.01 | 2.55 | | |
| 4.35 | -0.6 | 1.98 | | |
| 4.07 | -3.53 | -0.85 | | |
| 4 | -4.52 | -1.82 | | |
| 3.21 | 0.88 | 3.91 | | |
| 3.07 | -5.22 | -2.13 | | |
| 3.04 | -0.22 | 2.88 | | |
| 2.56 | -0.6 | 2.75 | | |
| 2.45 | -1.4 | 2.01 | | |
| 2.4 | -4.66 | -1.22 | | |
| 1.94 | -4.01 | -0.27 | | |
| 1.62 | -1.02 | 2.99 | | |
| 1.55 | -1.37 | 2.7 | | |
| 1.46 | -5.45 | -1.3 | | |
| -1.58 | -5.21 | 0.16 | | |
| 39.26 | -0.49 | -2.36 | | |
| 34.55 | -0.91 | -2.59 | | |
| 4.76 | 0.38 | 1.55 | | |
| 3.92 | -0.51 | 0.94 | | |
| 3.2 | -1.89 | -0.14 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.59 | -5.02 | -2.96 | | |
| 1.74 | -0.05 | 2.58 | | |
| 1.56 | -3.16 | -0.38 | | |
| 1.43 | -5.38 | -2.47 | | |
| 1.42 | -2.42 | 0.5 | | |
| 1.13 | -5.09 | -1.84 | | |
| -1.04 | -4.54 | -1.05 | | |
| -1.26 | -4.72 | -0.96 | | |
| 2.29 | -1.04 | -2.91 | | |
| 1.51 | -2.81 | -4.07 | | |
| 1.5 | -0.12 | -1.39 | | |
| 1.5 | 1.1 | -0.16 | | |
| 1.43 | -2.48 | -3.67 | | |
| 1.42 | 0.1 | -1.09 | | |
| 1.39 | 5.5 | 4.35 | | |
| 1.26 | 1.38 | 0.37 | | |
| 2.08 | -0.17 | -2.04 | | |
| 1.78 | -2.94 | -4.59 | | |
| 1.3 | -4.37 | -5.56 | | |
| 1.23 | -4.08 | -5.2 | | |
| 1.21 | -5 | -6.09 | | |
| 1.18 | -2.34 | -3.39 | | |
| 1.17 | -4.14 | -5.18 | | |
| 1.16 | -6.86 | -7.89 | | |
| 2.51 | -1.91 | -3.78 | | |
| 1.61 | 0.07 | -1.16 | | |
| 1.53 | -0.59 | -1.74 | | |
| 1.52 | 1.25 | 0.1 | | |
| 6.63 | 1.83 | -0.04 | | |
| 5.57 | 1.98 | 0.36 | | |
| 3.82 | 1.39 | 0.32 | | |
| -1.2 | -2.54 | -1.41 | | |
| -1.4 | -1.28 | 0.07 | | |
| -1.45 | 1.54 | 2.93 | | |
| -1.75 | 0.42 | 2.09 | | |
| -1.14 | 1.98 | 0.11 | | |
| -1.28 | 2.44 | 0.74 | | |
| -9.64 | -0.98 | 0.22 | | |
| 1.72 | 1.37 | -0.5 | | |
| 1.53 | -1.25 | -2.95 | | |
| 1.42 | -0.63 | -2.23 | | |
| 1.42 | -0.83 | -2.42 | | |
| 1.03 | 1.65 | 0.51 | | |
| -1 | -2.32 | -3.4 | | |
| -4.25 | 0.21 | 1.21 | | |
| -5.03 | -2.76 | -1.51 | | |
| 3.23 | 2.07 | 0.2 | | |
| 1.95 | 1.44 | 0.3 | | |
| 9.23 | 2.87 | 1.01 | | |
| 6.59 | 1.62 | 0.25 | | |
| 6.42 | 0.82 | -0.52 | | |
| 6.03 | 2.48 | 1.23 | | |
| 5.73 | 2.65 | 1.47 | | |
| 5.73 | 1.42 | 0.25 | | |
| 5.67 | 1.03 | -0.13 | | |
| 5.16 | 2.4 | 1.37 | | |
| 1.24 | 3.27 | 4.29 | | |
| 1.23 | 2.72 | 3.76 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.15 | -1.07 | 0.08 | | |
| 1.06 | 3.23 | 4.49 | | |
| -1.07 | 1.06 | 2.5 | | |
| -1.12 | -1.2 | 0.3 | | |
| -1.42 | -2.12 | -0.28 | | |
| 1.65 | 1.07 | -0.79 | | |
| 1.45 | -2.87 | -4.55 | | |
| 1.31 | 0.12 | -1.41 | | |
| 1.21 | -2.16 | -3.58 | | |
| 1.19 | 2.69 | 1.3 | | |
| 1.07 | 1.93 | 0.7 | | |
| 1.06 | 2.96 | 1.73 | | |
| -1 | -1.9 | -3.03 | | |
| -1.08 | 1.91 | 0.88 | | |
| -1.08 | -1.13 | -2.16 | | |
| 1.7 | -1.47 | -3.34 | | |
| 1.39 | -2.04 | -3.61 | | |
| 1.13 | 0.01 | -1.27 | | |
| 1.01 | 2.92 | 1.8 | | |
| 1 | 2.23 | 1.13 | | |
| -4.91 | -0.73 | 0.47 | | |
| 2.9 | -1.94 | -3.81 | | |
| 2.25 | -1.11 | -2.61 | | |
| 2.06 | -2.4 | -3.77 | | |
| 1.76 | -2.28 | -3.43 | | |
| 1.69 | -2.49 | -3.57 | | |
| -3.02 | -3.94 | -2.67 | | |
| -3.43 | -3.3 | -1.85 | | |
| 2.12 | -1.69 | -3.55 | | |
| 1.49 | 1.98 | 0.62 | | |
| 1.38 | 1.29 | 0.04 | | |
| 1.32 | 1.09 | -0.08 | | |
| 1.23 | 1.87 | 0.79 | | |
| 1.21 | -3.2 | -4.25 | | |
| 1.2 | -1.46 | -2.5 | | |
| -3.69 | -3.1 | -2 | | |
| -3.78 | -3.45 | -2.31 | | |
| 3.04 | 1.53 | -0.34 | | |
| 1.89 | -0.83 | -2.01 | | |
| 6.99 | 3.41 | 1.54 | | |
| 6.15 | 1.49 | -0.19 | | |
| 5.96 | 2.12 | 0.49 | | |
| -1.05 | 7.6 | 8.62 | | |
| -1.08 | 6.83 | 7.89 | | |
| -1.09 | -1.86 | -0.79 | | |
| -1.12 | 4.42 | 5.52 | | |
| -1.13 | 0.08 | 1.2 | | |
| -1.25 | -0.37 | 0.9 | | |
| -1.44 | -2.01 | -0.54 | | |
| 2.68 | -4.1 | -5.96 | | |
| 2.39 | -5.39 | -7.08 | | |
| 1.64 | -3.76 | -4.92 | | |
| 1.58 | -1.82 | -2.91 | | |
| 1.51 | -5.08 | -6.11 | | |
| 2.76 | -5.73 | -7.59 | | |
| -3.17 | -5.99 | -4.73 | | |
| 2.16 | 0.6 | -1.26 | | |
| 1.83 | 1.02 | -0.59 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.76 | 4.93 | 3.37 | | |
| 1.65 | 1.29 | -0.18 | | |
| 1.62 | 3.79 | 2.35 | | |
| 1.53 | 0.03 | -1.33 | | |
| 1.45 | 0.25 | -1.03 | | |
| 1.44 | 1.48 | 0.21 | | |
| 1.42 | 1.79 | 0.54 | | |
| 1.34 | 0.11 | -1.05 | | |
| 1.32 | 3.51 | 2.36 | | |
| 1.28 | 3.58 | 2.48 | | |
| 1.26 | 1.78 | 0.7 | | |
| 1.24 | 2.14 | 1.08 | | |
| 1.24 | 0.97 | -0.08 | | |
| 1.23 | 3.71 | 2.66 | | |
| 1.23 | 1.18 | 0.14 | | |
| 1.21 | -0.27 | -1.29 | | |
| 1.2 | 1.5 | 0.49 | | |
| 1.19 | 0.41 | -0.59 | | |
| 3.01 | -3.67 | -5.53 | | |
| 3 | -2.57 | -4.43 | | |
| 1.91 | 0.36 | -0.84 | | |
| 1.67 | 1.2 | 0.19 | | |
| -2.66 | -3.52 | -2.38 | | |
| -2.83 | -3.89 | -2.66 | | |
| 2.81 | -2.79 | -4.65 | | |
| 2.55 | -0.87 | -2.59 | | |
| 2.2 | -2.01 | -3.52 | | |
| 1.95 | -0.45 | -1.78 | | |
| 1.56 | 0.14 | -0.87 | | |
| -2.65 | -0.83 | 0.21 | | |
| -2.83 | -4.95 | -3.82 | | |
| -4.3 | -3.87 | -2.14 | | |
| -4.85 | -3.1 | -1.19 | | |
| -5.92 | -4.3 | -2.11 | | |
| 2.92 | 0.79 | -1.07 | | |
| 1.97 | 1.68 | 0.39 | | |
| 1.87 | -0.14 | -1.36 | | |
| 1.69 | -1.11 | -2.18 | | |
| 2.39 | -1.71 | -3.57 | | |
| 1.97 | -3.75 | -5.33 | | |
| 5.47 | -0.09 | -1.95 | | |
| 4.05 | 0.97 | -0.45 | | |
| -1.43 | -1.74 | -0.64 | | |
| -1.77 | -0.95 | 0.47 | | |
| 3.77 | 1.46 | -0.4 | | |
| 2.76 | -0.33 | -1.75 | | |
| 2.09 | 1.05 | 0.04 | | |
| 2 | -3.28 | -5.14 | | |
| 1.57 | -0.06 | -1.57 | | |
| 1.18 | -1.04 | -2.14 | | |
| -4.56 | 1.3 | 2.63 | | |
| 2.65 | -1.87 | -3.73 | | |
| 1.8 | -2.8 | -4.1 | | |
| 1.61 | -3.73 | -4.87 | | |
| 2.05 | -0.43 | -2.29 | | |
| 1.33 | 1.18 | -0.04 | | |
| 1.24 | -1.36 | -2.49 | | |
| 4.63 | 0.35 | -1.5 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.38 | -0.08 | -1.49 | | |
| -2.06 | -2.4 | -1 | | |
| 1.33 | -2.69 | -4.55 | | |
| 1.29 | -2.14 | -3.96 | | |
| 1.09 | 0.88 | -0.7 | | |
| 1.02 | -2.81 | -4.29 | | |
| -1.02 | -0.76 | -2.18 | | |
| -1.04 | -2.87 | -4.27 | | |
| -1.03 | -2.64 | -4.05 | | |
| -1.04 | -2.85 | -4.25 | | |
| -1.04 | -2.43 | -3.82 | | |
| -1.05 | 1.8 | 0.42 | | |
| -1.08 | -0.96 | -2.31 | | |
| -1.11 | -1.33 | -2.63 | | |
| -1.13 | -0.82 | -2.09 | | |
| -1.14 | -4.04 | -5.29 | | |
| -1.15 | 5.34 | 4.09 | | |
| -1.17 | 2.03 | 0.8 | | |
| -1.27 | -1.54 | -2.65 | | |
| -1.31 | -1.93 | -3 | | |
| -1.32 | 0.11 | -0.94 | | |
| -1.35 | 1.37 | 0.36 | | |
| -1.35 | -2.97 | -3.99 | | |
| -5.66 | -2.2 | -1.15 | | |
| -6.49 | -2.87 | -1.62 | | |
| -6.87 | -2.98 | -1.65 | | |
| -31.9 | -4.06 | -0.51 | | |
| 4.16 | 1.25 | -0.61 | | |
| -1.83 | 0.13 | 1.2 | | |
| 16.64 | 0.54 | -1.32 | | |
| 12.5 | -0.16 | -1.6 | | |
| 10.93 | 1.62 | 0.37 | | |
| 1.86 | 1.1 | 2.41 | | |
| 1.79 | -2.91 | -1.55 | | |
| 1.79 | 1.4 | 2.76 | | |
| 1.43 | -2.96 | -1.27 | | |
| 1.23 | -1.07 | 0.83 | | |
| 1.11 | -2.5 | -0.44 | | |
| -1.1 | 2.28 | 4.62 | | |
| 1.19 | 8.26 | 6.41 | | |
| 1.13 | 0.65 | -1.12 | | |
| -1.34 | -1.14 | -2.31 | | |
| 1.93 | -2.31 | -4.17 | | |
| 1.53 | -3.53 | -5.05 | | |
| 1.4 | -5.92 | -7.3 | | |
| 1.36 | -3.07 | -4.42 | | |
| 1.36 | -1.72 | -3.06 | | |
| 1.34 | -4.19 | -5.52 | | |
| 1.3 | -1.01 | -2.29 | | |
| 1.29 | -0.89 | -2.16 | | |
| 1.28 | -2.86 | -4.11 | | |
| 1.27 | -0.39 | -1.64 | | |
| 1.22 | 3.88 | 2.68 | | |
| 1.19 | -1.71 | -2.87 | | |
| 1.15 | -0.76 | -1.87 | | |
| 1.15 | -4.16 | -5.26 | | |
| 1.14 | -2.79 | -3.88 | | |
| 1.14 | -4.42 | -5.51 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.13 | -2.03 | -3.11 | | |
| 1.12 | 0.14 | -0.93 | | |
| 1.1 | -0.02 | -1.06 | | |
| 1.7 | 1.7 | -0.15 | | |
| 1.24 | -0.98 | -2.38 | | |
| 3.08 | -0.07 | -1.92 | | |
| 1.74 | -1.67 | -2.7 | | |
| -2.4 | -3.32 | -2.29 | | |
| 3.38 | -4.81 | -6.66 | | |
| 2.46 | -3.9 | -5.29 | | |
| 1.95 | -2.77 | -3.82 | | |
| 2.68 | -3.64 | -5.49 | | |
| 2.11 | -1.71 | -3.21 | | |
| -2.74 | -4.28 | -3.26 | | |
| -2.98 | -4.61 | -3.46 | | |
| 2.3 | -0.16 | -2.02 | | |
| 1.64 | -0.59 | -1.95 | | |
| 1.49 | -3.7 | -4.92 | | |
| 1.38 | -1.99 | -3.1 | | |
| 1.31 | -3.69 | -4.73 | | |
| 8.56 | -0.49 | -2.34 | | |
| 6.47 | -0.03 | -1.48 | | |
| 1.07 | -4.96 | -3.81 | | |
| 1.05 | -2.63 | -1.45 | | |
| -1.03 | -0.66 | 0.63 | | |
| -1.05 | -2.22 | -0.91 | | |
| -1.07 | -4.16 | -2.82 | | |
| -1.07 | 2.24 | 3.59 | | |
| -1.36 | -3.4 | -1.7 | | |
| -1.45 | -1.68 | 0.1 | | |
| -1.48 | -4.58 | -2.77 | | |
| 3.88 | -0.2 | -2.05 | | |
| -4.22 | -2.7 | -0.51 | | |
| 2.92 | 2.36 | 0.51 | | |
| 2.47 | 3.54 | 1.93 | | |
| 2.06 | 0.97 | -0.37 | | |
| 1.74 | 0.97 | -0.13 | | |
| 1.71 | -1.01 | -2.09 | | |
| -2.79 | -0.26 | 0.92 | | |
| -2.91 | -1.34 | -0.1 | | |
| 2.65 | 0.46 | -1.39 | | |
| 1.74 | -2.58 | -3.82 | | |
| 1.64 | -3.82 | -4.97 | | |
| 1.58 | -1.09 | -2.2 | | |
| 1.07 | 2.43 | 0.58 | | |
| -1.15 | -4.16 | -5.71 | | |
| -1.19 | -1.65 | -3.14 | | |
| -1.2 | -2.38 | -3.87 | | |
| -1.24 | -0.33 | -1.77 | | |
| -1.3 | 0.16 | -1.21 | | |
| -7.84 | -2.46 | -1.23 | | |
| 4.26 | -2.83 | -4.68 | | |
| 2.47 | -2.44 | -3.5 | | |
| -2.1 | -1.96 | -0.65 | | |
| -2.12 | -4.47 | -3.14 | | |
| -2.45 | -3.72 | -2.19 | | |
| -3.09 | -3.08 | -1.21 | | |
| -4.09 | -4.25 | -1.97 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.24 | 0.17 | -1.68 | | |
| 1.68 | -2.57 | -4 | | |
| 1.36 | 4.26 | 3.13 | | |
| 1.32 | 1.14 | 0.06 | | |
| -4.09 | -0.94 | 0.4 | | |
| -4.84 | -1.89 | -0.29 | | |
| 1.8 | 0.92 | -0.93 | | |
| 1.67 | 2.23 | 0.49 | | |
| 1.65 | -0.21 | -1.93 | | |
| 1.63 | 0 | -1.7 | | |
| 1.48 | 2.92 | 1.36 | | |
| 1.4 | -1.31 | -2.8 | | |
| 1.35 | -1.46 | -2.88 | | |
| 1.31 | 0.83 | -0.56 | | |
| 1.29 | -1.67 | -3.03 | | |
| 1.29 | 0.4 | -0.97 | | |
| 1.3 | 1.32 | -0.05 | | |
| 1.28 | 0.57 | -0.78 | | |
| 1.24 | 4.68 | 3.38 | | |
| 1.23 | -1.41 | -2.71 | | |
| 1.22 | 0.4 | -0.88 | | |
| 1.22 | 1.75 | 0.47 | | |
| 1.16 | 0.61 | -0.59 | | |
| 1.08 | -2.16 | -3.27 | | |
| 1.07 | -0.34 | -1.43 | | |
| 1.06 | -0.55 | -1.64 | | |
| 1.06 | 0.66 | -0.42 | | |
| 1.05 | 1.47 | 0.41 | | |
| 1.05 | -2.26 | -3.32 | | |
| -4.07 | -0.95 | 0.08 | | |
| -4.14 | -2.77 | -1.71 | | |
| -4.14 | -1.09 | -0.03 | | |
| -4.45 | -1.38 | -0.22 | | |
| -4.7 | -3.5 | -2.26 | | |
| -5.04 | -1.51 | -0.17 | | |
| -5.42 | -1.17 | 0.28 | | |
| -5.91 | -2.45 | -0.88 | | |
| -6.38 | -3.16 | -1.48 | | |
| -7.02 | -2.7 | -0.89 | | |
| -7.64 | -1.36 | 0.58 | | |
| -8.09 | -0.86 | 1.16 | | |
| -11.72 | -2.98 | -0.42 | | |
| -12.77 | -2.12 | 0.56 | | |
| -13.76 | -1.49 | 1.3 | | |
| -14.75 | -2.36 | 0.53 | | |
| -23.86 | -3.21 | 0.37 | | |
| 1.93 | 0.95 | -0.9 | | |
| 1.83 | -3.34 | -5.11 | | |
| 1.35 | 2.2 | 0.88 | | |
| 1.32 | -0.63 | -1.93 | | |
| -4.83 | -5.07 | -3.69 | | |
| 2.63 | 3.27 | 1.42 | | |
| 1.84 | 1.38 | 0.06 | | |
| 1.74 | 3.78 | 2.53 | | |
| 1.59 | -0.19 | -1.31 | | |
| -3.84 | -1.25 | 0.24 | | |
| 1.88 | -1.26 | -3.11 | | |
| 1.17 | -0.91 | -2.07 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.13 | 2.37 | 1.26 | | |
| 1.52 | 2.12 | 0.28 | | |
| 1.35 | -1.67 | -3.34 | | |
| 1.33 | 5.31 | 3.66 | | |
| 1.2 | 3.25 | 1.76 | | |
| 1.04 | 1.8 | 0.5 | | |
| -1.1 | -1.43 | -2.53 | | |
| 2.18 | -1.32 | -3.16 | | |
| -3.3 | -2.67 | -1.67 | | |
| 2.15 | -0.59 | -2.43 | | |
| 1.23 | 2.51 | 1.48 | | |
| 1.21 | 3.05 | 2.03 | | |
| 4.03 | -2.99 | -4.83 | | |
| -1.81 | -3.7 | -2.67 | | |
| -1.86 | -4.66 | -3.6 | | |
| -1.91 | -1.31 | -0.21 | | |
| -2 | -4.12 | -2.95 | | |
| -2.11 | -0.86 | 0.39 | | |
| 2.51 | -3.78 | -5.63 | | |
| 1.71 | -2.62 | -3.9 | | |
| 1.64 | 2.17 | 0.94 | | |
| 1.44 | -3.83 | -4.87 | | |
| 3 | -2.37 | -4.21 | | |
| 2.18 | -1.75 | -3.12 | | |
| -2.38 | -1.94 | -0.94 | | |
| -2.42 | -5.31 | -4.29 | | |
| -2.79 | -3.5 | -2.27 | | |
| -2.91 | -5.13 | -3.84 | | |
| -2.99 | -3.98 | -2.66 | | |
| -3.56 | -4.41 | -2.83 | | |
| 3.44 | -1.12 | -2.96 | | |
| 2.14 | 2.57 | 1.41 | | |
| -2.18 | 0.13 | 1.19 | | |
| -2.26 | -0.66 | 0.46 | | |
| 3.22 | 0.94 | -0.9 | | |
| 2.81 | -0.89 | -2.54 | | |
| 1.69 | -1.77 | -3.6 | | |
| 1.4 | -3.14 | -4.71 | | |
| 1.39 | 0.1 | -1.45 | | |
| 1.37 | 2.78 | 1.25 | | |
| 1.34 | 0.5 | -1 | | |
| 1.34 | 0.7 | -0.8 | | |
| 1.3 | -3.36 | -4.82 | | |
| 1.23 | 1.58 | 0.2 | | |
| 1.1 | -2.01 | -3.23 | | |
| 1.05 | 1.44 | 0.3 | | |
| 1.01 | -2.25 | -3.35 | | |
| 1.01 | 2.56 | 1.47 | | |
| 1 | -0.87 | -1.96 | | |
| -1.02 | -0.58 | -1.62 | | |
| -4.6 | -2.31 | -1.19 | | |
| 1.75 | -1.71 | -3.54 | | |
| 1.41 | -3.68 | -5.2 | | |
| 1.4 | 0.71 | -0.8 | | |
| 1.35 | -4.3 | -5.77 | | |
| 1.19 | -5.11 | -6.39 | | |
| 1.12 | -2.28 | -3.46 | | |
| 1.06 | 0.2 | -0.91 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.11 | -1.74 | -0.73 | | |
| -4.14 | -1.65 | -0.63 | | |
| -4.2 | -4.13 | -3.08 | | |
| -4.3 | -3.35 | -2.27 | | |
| -4.29 | -1.84 | -0.77 | | |
| -4.3 | -1.63 | -0.56 | | |
| -4.36 | -3.07 | -1.98 | | |
| -4.37 | -3.37 | -2.28 | | |
| -4.48 | -2.35 | -1.22 | | |
| -4.49 | -1.75 | -0.61 | | |
| -4.6 | -1.15 | 0.02 | | |
| -4.63 | -2.02 | -0.84 | | |
| -4.69 | -2.61 | -1.41 | | |
| -4.76 | -1.71 | -0.49 | | |
| -4.91 | -1.87 | -0.61 | | |
| -5.07 | -2.37 | -1.05 | | |
| -5.39 | -1.99 | -0.59 | | |
| -6.11 | -2.25 | -0.67 | | |
| -6.39 | -4.86 | -3.22 | | |
| -6.9 | -5.33 | -3.58 | | |
| -7.64 | -4.35 | -2.45 | | |
| -7.95 | -5.52 | -3.56 | | |
| 1.65 | 2.03 | 0.19 | | |
| 1.6 | -1 | -2.8 | | |
| 1.13 | 1.43 | 0.14 | | |
| 2.5 | -1.39 | -3.23 | | |
| 2.35 | -0.61 | -2.36 | | |
| 1.62 | 0.09 | -1.12 | | |
| 1.56 | 1.84 | 0.68 | | |
| 1.55 | -2.2 | -3.34 | | |
| 1.5 | -1.48 | -2.57 | | |
| 1.47 | 2.39 | 1.32 | | |
| 1.43 | 0.13 | -0.9 | | |
| 1.4 | -2.36 | -3.36 | | |
| 2.69 | -3.3 | -5.13 | | |
| 1.64 | -6.24 | -7.37 | | |
| -5.81 | -6.82 | -4.69 | | |
| 3.58 | -1 | -2.83 | | |
| 2.23 | -0.19 | -1.34 | | |
| -2 | -2.95 | -1.95 | | |
| -2.13 | -1.12 | -0.02 | | |
| -2.18 | -4.39 | -3.26 | | |
| -2.33 | -1.82 | -0.59 | | |
| -2.74 | -4.46 | -3 | | |
| 3.04 | 1.01 | -0.82 | | |
| 2.71 | 3.07 | 1.4 | | |
| -2.53 | -0.89 | 0.22 | | |
| -2.58 | -0.33 | 0.81 | | |
| -2.85 | -1.39 | -0.11 | | |
| -2.95 | -0.88 | 0.45 | | |
| -3.5 | 0.41 | 1.99 | | |
| -4.11 | -1.98 | -0.17 | | |
| -4.71 | -0.25 | 1.76 | | |
| -4.97 | -2.2 | -0.12 | | |
| -5.57 | -0.43 | 1.82 | | |
| -8.98 | -4.15 | -1.21 | | |
| 4.98 | 0.97 | -0.86 | | |
| 3.7 | 1 | -0.4 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.45 | -2.5 | -1.48 | | |
| 1.22 | -0.12 | -1.95 | | |
| 1.21 | 4.65 | 2.82 | | |
| 1.21 | 5 | 3.18 | | |
| 1.2 | 0.61 | -1.2 | | |
| 1.17 | -1.05 | -2.82 | | |
| 1.15 | 0.34 | -1.41 | | |
| 1.09 | 2.82 | 1.15 | | |
| 1.08 | 3.92 | 2.27 | | |
| 1 | 2.17 | 0.62 | | |
| -1.05 | -1.28 | -2.76 | | |
| -1.07 | 0.24 | -1.21 | | |
| -1.09 | 2.56 | 1.14 | | |
| -1.11 | -1.18 | -2.57 | | |
| -1.16 | 2.02 | 0.69 | | |
| -1.18 | -1.67 | -2.97 | | |
| -1.27 | 2.65 | 1.44 | | |
| -1.28 | 1.97 | 0.78 | | |
| -1.31 | 1.35 | 0.19 | | |
| -1.42 | -0.35 | -1.39 | | |
| -1.46 | 2.41 | 1.41 | | |
| -6.73 | -0.53 | 0.68 | | |
| -9.66 | -1.72 | 0.01 | | |
| -9.87 | 0.14 | 1.9 | | |
| -13.15 | -0.2 | 1.97 | | |
| 3.67 | -0.59 | -2.42 | | |
| 2.83 | -4.32 | -5.78 | | |
| 2.72 | -2.57 | -3.97 | | |
| 2.57 | -2.09 | -3.4 | | |
| -1.97 | -4.12 | -3.09 | | |
| 2.03 | -2 | -3.83 | | |
| 1.56 | 0.14 | -1.31 | | |
| 1.32 | 1.28 | 0.06 | | |
| 1.29 | 0.43 | -0.75 | | |
| 1.26 | 2.14 | 0.99 | | |
| 1.25 | 4.74 | 3.6 | | |
| -5.36 | -3.19 | -1.58 | | |
| 2.29 | 5.29 | 3.46 | | |
| 1.97 | -3.18 | -4.79 | | |
| 2.11 | 0.96 | -0.86 | | |
| 1.58 | -1.46 | -2.86 | | |
| 1.51 | 1.28 | -0.06 | | |
| 1.2 | -0.08 | -1.09 | | |
| -3.47 | -0.08 | 0.97 | | |
| -3.6 | 0.61 | 1.71 | | |
| -4.52 | -1.33 | 0.1 | | |
| -5.05 | -1.5 | 0.1 | | |
| 1.39 | -3.05 | -4.87 | | |
| 1.29 | -3.78 | -5.5 | | |
| 1.13 | -1.54 | -3.07 | | |
| -1 | -6.24 | -7.59 | | |
| -1.2 | -4.68 | -5.77 | | |
| -1.21 | -3.81 | -4.89 | | |
| -1.23 | -6.41 | -7.45 | | |
| -5.28 | -1.89 | -0.84 | | |
| -5.86 | -1.7 | -0.5 | | |
| -6.07 | -1.76 | -0.51 | | |
| -6.16 | -2.23 | -0.96 | | |

| | | | | |
|-------|-------|-------|--|--|
| -9.78 | -5.18 | -3.25 | | |
| -11.4 | -2.88 | -0.73 | | |
| 2.33 | 0.3 | -1.52 | | |
| 1.33 | 3.52 | 2.51 | | |
| 4.08 | -0.54 | -2.37 | | |
| -2.17 | -3.2 | -1.87 | | |
| -2.35 | -0.24 | 1.2 | | |
| 2.19 | -1.01 | -2.83 | | |
| 1.73 | 5.34 | 3.86 | | |
| 1.61 | -1.43 | -2.8 | | |
| 1.48 | -0.76 | -2.02 | | |
| 1.37 | 3.41 | 2.27 | | |
| 1.36 | 2.86 | 1.73 | | |
| 1.24 | -1.61 | -2.61 | | |
| -1 | -2.96 | -4.78 | | |
| -1.01 | 4.07 | 2.26 | | |
| -1.18 | -2.63 | -4.22 | | |
| -1.36 | -0.87 | -2.26 | | |
| -1.41 | 1.24 | -0.09 | | |
| -1.76 | -2.79 | -3.8 | | |
| 1.42 | 0.26 | -1.55 | | |
| 1.3 | -3.26 | -4.94 | | |
| 1.29 | -4.13 | -5.8 | | |
| 1.24 | -0.08 | -1.69 | | |
| 1.16 | -0.05 | -1.57 | | |
| 1.15 | -2.48 | -4 | | |
| 1.1 | 0.18 | -1.27 | | |
| 1.09 | 1.03 | -0.41 | | |
| -1.15 | -0.75 | -1.86 | | |
| 1.8 | -2.88 | -4.7 | | |
| 1.07 | -0.11 | -1.18 | | |
| -4.21 | 0.15 | 1.25 | | |
| -4.41 | -2.66 | -1.49 | | |
| -5.35 | -1.76 | -0.31 | | |
| 1.44 | -2.12 | -3.94 | | |
| 1.3 | -1.48 | -3.14 | | |
| 1.22 | 2.74 | 1.15 | | |
| 1.18 | 2.46 | 0.93 | | |
| -1.05 | 3.73 | 2.5 | | |
| -1.06 | -2.23 | -3.44 | | |
| -1.08 | -2.87 | -4.05 | | |
| -1.1 | 2.51 | 1.36 | | |
| -1.11 | 1.14 | -0.01 | | |
| -1.22 | 0.93 | -0.07 | | |
| -1.23 | 0.68 | -0.32 | | |
| 1.97 | 2.62 | 0.81 | | |
| 1.31 | 0.95 | -0.28 | | |
| 1.16 | -3.31 | -4.36 | | |
| 1.15 | 0.63 | -0.41 | | |
| 1.98 | -2.08 | -3.89 | | |
| 1.59 | 1.48 | -0.01 | | |
| 1.41 | -3.42 | -4.74 | | |
| 1.37 | 1.01 | -0.26 | | |
| 1.27 | 2.96 | 1.79 | | |
| 1.27 | -0.99 | -2.15 | | |
| 1.18 | -2.28 | -3.34 | | |
| 1.17 | -1.01 | -2.06 | | |
| 1.14 | 2.39 | 1.38 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.77 | -4.07 | -2.98 | | |
| 2.91 | -4.33 | -6.14 | | |
| 1.81 | -2.82 | -3.94 | | |
| 1.76 | -4.19 | -5.27 | | |
| 1.94 | -2.96 | -4.77 | | |
| 1.56 | -2.54 | -4.04 | | |
| 1.42 | -3.2 | -4.57 | | |
| 1.32 | -2.16 | -3.41 | | |
| 1.32 | -1.07 | -2.32 | | |
| -3.92 | -4.35 | -3.23 | | |
| -4.33 | -3.76 | -2.5 | | |
| 2.26 | -1.84 | -3.65 | | |
| 1.32 | -1.03 | -2.06 | | |
| 2.78 | -3.66 | -5.47 | | |
| 1.65 | -2.3 | -3.35 | | |
| -3.38 | -6.89 | -5.46 | | |
| 2.31 | -0.5 | -2.31 | | |
| 1.74 | 1.38 | -0.02 | | |
| 1.71 | -0.24 | -1.62 | | |
| 1.4 | -1.04 | -2.13 | | |
| 1.33 | -0.22 | -1.24 | | |
| 17.12 | -5.08 | -6.89 | | |
| 13.46 | -0.89 | -2.35 | | |
| 11.69 | -6.12 | -7.39 | | |
| 11.46 | -5.33 | -6.56 | | |
| 1.73 | -1.6 | -0.11 | | |
| 1.71 | 0.55 | 2.06 | | |
| 1.7 | -5.05 | -3.52 | | |
| 1.13 | -4.21 | -2.09 | | |
| 1.11 | -4.01 | -1.87 | | |
| -1.03 | -4.52 | -2.19 | | |
| 1.71 | -1 | -2.81 | | |
| 1.5 | -1.89 | -3.51 | | |
| 1.39 | 0.37 | -1.15 | | |
| 1.3 | 0.07 | -1.34 | | |
| 1.21 | -2.1 | -3.41 | | |
| 1.19 | -3.98 | -5.26 | | |
| 1.15 | -1.24 | -2.47 | | |
| 1.15 | 3.36 | 2.12 | | |
| 1.12 | 0.8 | -0.4 | | |
| 1.06 | -1.42 | -2.54 | | |
| 1.05 | -2.34 | -3.44 | | |
| 1.03 | -3.31 | -4.39 | | |
| 1.02 | -0.98 | -2.04 | | |
| -1.01 | 2.22 | 1.21 | | |
| 3.13 | 0.09 | -1.72 | | |
| -2.49 | -2.56 | -1.41 | | |
| 1.72 | 3.3 | 1.49 | | |
| 1.47 | 2.99 | 1.41 | | |
| 1.43 | 1.63 | 0.09 | | |
| 1.34 | 1.7 | 0.25 | | |
| 1.26 | 1.34 | -0.02 | | |
| 1.08 | -0.2 | -1.34 | | |
| 3.79 | -2.23 | -4.04 | | |
| -2.44 | -1.47 | -0.07 | | |
| 2.46 | -3.33 | -5.14 | | |
| 1.54 | -2.41 | -3.54 | | |
| 1.4 | -3.26 | -4.26 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.41 | -1.55 | -2.55 | | |
| -3.16 | -6.22 | -5.07 | | |
| 2.64 | -0.03 | -1.84 | | |
| 1.89 | 1.81 | 0.49 | | |
| 1.71 | 3.99 | 2.81 | | |
| -2.65 | 0.22 | 1.22 | | |
| -2.72 | -0.24 | 0.8 | | |
| -3.16 | -1.53 | -0.28 | | |
| -3.17 | -3.04 | -1.78 | | |
| -3.88 | -3.15 | -1.6 | | |
| -3.97 | -1.63 | -0.04 | | |
| 2.06 | -2.13 | -3.94 | | |
| 1.85 | -1.43 | -3.08 | | |
| 1.63 | -2.06 | -3.54 | | |
| 1.24 | -1.8 | -2.88 | | |
| -3.47 | -4.47 | -3.44 | | |
| -7.23 | -5.14 | -3.05 | | |
| 15.65 | 1.45 | -0.36 | | |
| 13.37 | 0.78 | -0.8 | | |
| 11.6 | -0.85 | -2.23 | | |
| 11.2 | -1.16 | -2.49 | | |
| 10.55 | 1.89 | 0.65 | | |
| 10.51 | 2.5 | 1.27 | | |
| 9.7 | -2.21 | -3.33 | | |
| 9.65 | 1.02 | -0.09 | | |
| 9.44 | -0.28 | -1.36 | | |
| 9.23 | 0.58 | -0.47 | | |
| 1.67 | -3.69 | -2.27 | | |
| 1.4 | 0.75 | 2.43 | | |
| 1.32 | 1.17 | 2.93 | | |
| 1.27 | 0.92 | 2.74 | | |
| 1.22 | -1.69 | 0.18 | | |
| 1.2 | -1.72 | 0.17 | | |
| -1.11 | 1.87 | 4.18 | | |
| -1.31 | -3.69 | -1.14 | | |
| 4.06 | 1.71 | -0.1 | | |
| 2.76 | 2.38 | 1.13 | | |
| -1.74 | -2.73 | -1.72 | | |
| -1.85 | -2.06 | -0.96 | | |
| 2.12 | 2.42 | 0.62 | | |
| 1.64 | 0.56 | -0.88 | | |
| 1.57 | 2.38 | 1.01 | | |
| 1.56 | 2.69 | 1.33 | | |
| 1.53 | 1.88 | 0.55 | | |
| 1.49 | 1.39 | 0.09 | | |
| 1.46 | -0.12 | -1.39 | | |
| 1.4 | 1.52 | 0.31 | | |
| 1.34 | 0.84 | -0.3 | | |
| 1.3 | 2.62 | 1.52 | | |
| 1.28 | 1.59 | 0.51 | | |
| 1.26 | -0.57 | -1.63 | | |
| 1.22 | 0.79 | -0.23 | | |
| 1.21 | 3.08 | 2.08 | | |
| -3.58 | -0.21 | 0.91 | | |
| -4.49 | -0.55 | 0.9 | | |
| -4.49 | -0.22 | 1.23 | | |
| -4.8 | -2.15 | -0.61 | | |
| -5.73 | -2.06 | -0.26 | | |

| | | | | |
|-------|-------|-------|--|--|
| 5.29 | -0.65 | -2.45 | | |
| 3.15 | -0.15 | -1.2 | | |
| -2.86 | -2.27 | -0.16 | | |
| 2.75 | 0.83 | -0.98 | | |
| 2.21 | -3.52 | -5.01 | | |
| 2.02 | -2.84 | -4.2 | | |
| 2.01 | -3.06 | -4.41 | | |
| 1.92 | -2.91 | -4.2 | | |
| 1.8 | -4.61 | -5.8 | | |
| 1.79 | -4.06 | -5.24 | | |
| -2.57 | -3.09 | -2.07 | | |
| -2.73 | -2.84 | -1.73 | | |
| -2.99 | -4.33 | -3.09 | | |
| 2.96 | -2.06 | -3.86 | | |
| -2.83 | -2.19 | -0.93 | | |
| -3 | -5.89 | -4.54 | | |
| -3.16 | -3.82 | -2.4 | | |
| -3.92 | -4.12 | -2.39 | | |
| 4.94 | 0.59 | -1.21 | | |
| 4.75 | -0.57 | -2.32 | | |
| -1.52 | -1.25 | -0.15 | | |
| -2.52 | -2.39 | -0.55 | | |
| 2.13 | 1.78 | -0.02 | | |
| 1.84 | 0.13 | -1.45 | | |
| 1.57 | 2.27 | 0.91 | | |
| 1.45 | 1.47 | 0.23 | | |
| 1.33 | 2.36 | 1.25 | | |
| 1.32 | 1.22 | 0.12 | | |
| 1.31 | 1.93 | 0.84 | | |
| -3.96 | -1.13 | 0.15 | | |
| 3.26 | -1.83 | -3.63 | | |
| -2.69 | -3.35 | -2.02 | | |
| -4.38 | -3.38 | -1.34 | | |
| 2.42 | -3.24 | -5.04 | | |
| 2.06 | -0.58 | -2.14 | | |
| 1.55 | -2.05 | -3.2 | | |
| 1.53 | -3.64 | -4.77 | | |
| -3.7 | -2.76 | -1.4 | | |
| 5.12 | -1.63 | -3.43 | | |
| 4.48 | -5.47 | -7.07 | | |
| 4.14 | -5.37 | -6.86 | | |
| 4 | -6.49 | -7.94 | | |
| 3.99 | -3.11 | -4.55 | | |
| 3.52 | 1.87 | 0.07 | | |
| 3.28 | 3.22 | 1.53 | | |
| -2.25 | -1.08 | 0.11 | | |
| -2.37 | 0 | 1.26 | | |
| -2.73 | 0.71 | 2.17 | | |
| 2.82 | -3.49 | -5.29 | | |
| 2.12 | -2.39 | -3.78 | | |
| 1.86 | -2.19 | -3.39 | | |
| -2.63 | -4.4 | -3.31 | | |
| -2.84 | -4.28 | -3.07 | | |
| -3.39 | -2.85 | -1.39 | | |
| 7.65 | 1.04 | -0.76 | | |
| 6.71 | 3.27 | 1.66 | | |
| 6.65 | 1.98 | 0.39 | | |
| 6.1 | 0.93 | -0.54 | | |

| | | | | |
|--------|-------|-------|--|--|
| 4.65 | 0.39 | -0.69 | | |
| 1.09 | 1.64 | 2.65 | | |
| 1.07 | 2.83 | 3.86 | | |
| 1.02 | 4.13 | 5.23 | | |
| -1.08 | 5.37 | 6.61 | | |
| 2.79 | 0.98 | -0.82 | | |
| -2.76 | -1.12 | 0.02 | | |
| 1.25 | 5.67 | 3.87 | | |
| -1 | 0.8 | -0.68 | | |
| -1.04 | 3.23 | 1.81 | | |
| -1.04 | -0.43 | -1.85 | | |
| -1.06 | -0.51 | -1.89 | | |
| -1.08 | 2.23 | 0.87 | | |
| -1.19 | 0.99 | -0.23 | | |
| -1.19 | 0.8 | -0.42 | | |
| -1.34 | -2.51 | -3.56 | | |
| -1.36 | 1.5 | 0.46 | | |
| -1.36 | 1.31 | 0.29 | | |
| -5.58 | -2.05 | -1.04 | | |
| -5.59 | -0.96 | 0.05 | | |
| -5.72 | -1.7 | -0.66 | | |
| -5.72 | 0.3 | 1.35 | | |
| -6.02 | -0.96 | 0.16 | | |
| -6.45 | -1.16 | 0.05 | | |
| -6.9 | -1.08 | 0.23 | | |
| -7.36 | -1.7 | -0.29 | | |
| -7.38 | -1.33 | 0.08 | | |
| -9.1 | -3.27 | -1.56 | | |
| -9.87 | -3.26 | -1.43 | | |
| -10.59 | -1.71 | 0.22 | | |
| -10.97 | -2.74 | -0.76 | | |
| 1.12 | -1.43 | -3.23 | | |
| -1.05 | 1.63 | 0.06 | | |
| -1.05 | 3.39 | 1.82 | | |
| -1.16 | 0.83 | -0.59 | | |
| -1.39 | -1.49 | -2.65 | | |
| 2.55 | 2.75 | 0.95 | | |
| 1.79 | 3.21 | 1.93 | | |
| 1.95 | 1.85 | 0.05 | | |
| 1.46 | 2.15 | 0.77 | | |
| 1.12 | 2.27 | 1.27 | | |
| 1.05 | 0.65 | -1.15 | | |
| -1.36 | 0.05 | -1.24 | | |
| -1.53 | 2.33 | 1.21 | | |
| 5.61 | 1.39 | -0.4 | | |
| 5.36 | 2.63 | 0.91 | | |
| 4.6 | 0.05 | -1.45 | | |
| 4.58 | 1.45 | -0.06 | | |
| 3.54 | 1.67 | 0.55 | | |
| 3.45 | 2.11 | 1.02 | | |
| -1.28 | -0.4 | 0.65 | | |
| -1.32 | -1.1 | 0 | | |
| -1.61 | 2.4 | 3.79 | | |
| -1.77 | 3.2 | 4.72 | | |
| 1.09 | 0.6 | -1.19 | | |
| -1.01 | -1.39 | -3.05 | | |
| -1.01 | -0.64 | -2.29 | | |
| -1.1 | 3.02 | 1.49 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.18 | 3.92 | 2.48 | | |
| -1.18 | 4.58 | 3.15 | | |
| -1.24 | 2.97 | 1.6 | | |
| -1.37 | 3.09 | 1.87 | | |
| -1.51 | 1.06 | -0.01 | | |
| -1.59 | 2.48 | 1.48 | | |
| -6.39 | -1.88 | -0.87 | | |
| -8.62 | 0.85 | 2.3 | | |
| -15.1 | -1.6 | 0.65 | | |
| -19.26 | -0.77 | 1.83 | | |
| 2.28 | 0.64 | -1.16 | | |
| 1.96 | 0.87 | -0.71 | | |
| 1.7 | -3.3 | -4.67 | | |
| 1.64 | -0.51 | -1.83 | | |
| 1.53 | -1.41 | -2.62 | | |
| 1.41 | -4.52 | -5.62 | | |
| 1.38 | 0.44 | -0.63 | | |
| -3.04 | -2.63 | -1.63 | | |
| -3.3 | -1.49 | -0.37 | | |
| 12.79 | 0.08 | -1.72 | | |
| 1.06 | -0.08 | 1.72 | | |
| -1.54 | 0.71 | 3.21 | | |
| 1.5 | 5.72 | 3.92 | | |
| 1.23 | 2.39 | 0.88 | | |
| 1.13 | 1.41 | 0.03 | | |
| -1.07 | 2.36 | 1.25 | | |
| -1.16 | 5.2 | 4.2 | | |
| 4.38 | -1.01 | -2.81 | | |
| -1.58 | -3.75 | -2.75 | | |
| -2.42 | -1.04 | 0.57 | | |
| 1.85 | -0.28 | -2.07 | | |
| 1.59 | -1.5 | -3.08 | | |
| 1.39 | -2.77 | -4.14 | | |
| 1.35 | -3.5 | -4.83 | | |
| 1.17 | -2.59 | -3.72 | | |
| -7.23 | -6 | -4.05 | | |
| 2.33 | -2.66 | -4.45 | | |
| 2.03 | -3.08 | -4.67 | | |
| 1.48 | -4.4 | -5.54 | | |
| 1.35 | -5.44 | -6.45 | | |
| 2.13 | -2.3 | -4.09 | | |
| 1.68 | -3.08 | -4.52 | | |
| 1.48 | -2.45 | -3.72 | | |
| 1.46 | -3.58 | -4.83 | | |
| 1.41 | -1.71 | -2.9 | | |
| 1.23 | 1.1 | 0.09 | | |
| 1.23 | -2.67 | -3.68 | | |
| -3.28 | -4.58 | -3.57 | | |
| 1.51 | 3.45 | 1.66 | | |
| -1.14 | 2.52 | 1.51 | | |
| 2.12 | 2.44 | 0.65 | | |
| 1.64 | 0.58 | -0.85 | | |
| 1.57 | 2.4 | 1.04 | | |
| 1.56 | 2.71 | 1.36 | | |
| 1.53 | 1.9 | 0.58 | | |
| 1.49 | 1.4 | 0.12 | | |
| 1.46 | -0.1 | -1.36 | | |
| 1.4 | 1.53 | 0.34 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.34 | 0.85 | -0.27 | | |
| 1.3 | 3.77 | 2.69 | | |
| 1.3 | 2.63 | 1.55 | | |
| 1.28 | 1.61 | 0.54 | | |
| 1.26 | -0.55 | -1.6 | | |
| 1.25 | 0.36 | -0.68 | | |
| 1.22 | 0.8 | -0.2 | | |
| -3.58 | -0.19 | 0.94 | | |
| -4.49 | -0.53 | 0.93 | | |
| -4.49 | -0.2 | 1.26 | | |
| -4.8 | -2.13 | -0.58 | | |
| -5.73 | -2.04 | -0.23 | | |
| 3.1 | 2.63 | 0.84 | | |
| 2.08 | -2.83 | -4.05 | | |
| -2.74 | -3.51 | -2.21 | | |
| 3.13 | -3.82 | -5.61 | | |
| -2.76 | -5.7 | -4.38 | | |
| 2.31 | -0.91 | -2.7 | | |
| 1.85 | -2.63 | -4.1 | | |
| 1.78 | -0.66 | -2.07 | | |
| 1.75 | -3.34 | -4.73 | | |
| 1.73 | -0.01 | -1.38 | | |
| 1.57 | -2.67 | -3.9 | | |
| 1.51 | -2.02 | -3.2 | | |
| 1.42 | -1.57 | -2.66 | | |
| 1.4 | 3.03 | 1.97 | | |
| 2.22 | 2.15 | 0.36 | | |
| 1.65 | -0.67 | -2.03 | | |
| 1.64 | 1.5 | 0.15 | | |
| 1.4 | -1.12 | -2.24 | | |
| -3.27 | -0.87 | 0.2 | | |
| -3.29 | -0.03 | 1.05 | | |
| -3.65 | -2.41 | -1.18 | | |
| -4.01 | -2.59 | -1.23 | | |
| 2.77 | 4.5 | 2.71 | | |
| 2.19 | 3.38 | 1.93 | | |
| -3.42 | -2.45 | -0.99 | | |
| 2.45 | -2.67 | -4.46 | | |
| 1.92 | -1 | -2.43 | | |
| 1.55 | 0.35 | -0.77 | | |
| 1.48 | 2.1 | 1.04 | | |
| -3.03 | -2.51 | -1.4 | | |
| 2.62 | -2.64 | -4.42 | | |
| 1.96 | 2.23 | 0.86 | | |
| -2.63 | -2.46 | -1.46 | | |
| -2.86 | -1.91 | -0.8 | | |
| 1.69 | -0.71 | -2.5 | | |
| 1.44 | -0.19 | -1.74 | | |
| 1.18 | -2.53 | -3.8 | | |
| 1.18 | -0.31 | -1.58 | | |
| 1.14 | -2.22 | -3.43 | | |
| 1.1 | -1.43 | -2.6 | | |
| 1.1 | -1.83 | -2.99 | | |
| 1.05 | -0.01 | -1.1 | | |
| 1.03 | -2.43 | -3.49 | | |
| 1.03 | -2.3 | -3.37 | | |
| -1 | -2.06 | -3.08 | | |
| -1 | 0.14 | -0.88 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.77 | 4.5 | 2.71 | | |
| 2.19 | 3.38 | 1.93 | | |
| -3.42 | -2.45 | -0.99 | | |
| 2.77 | 4.5 | 2.71 | | |
| 2.19 | 3.38 | 1.93 | | |
| -3.42 | -2.45 | -0.99 | | |
| 2.77 | 4.5 | 2.71 | | |
| 2.37 | 3.6 | 2.04 | | |
| -3.42 | -2.45 | -0.99 | | |
| 2.77 | 4.5 | 2.71 | | |
| 2.19 | 3.38 | 1.93 | | |
| -3.42 | -2.45 | -0.99 | | |
| 2.77 | 4.5 | 2.71 | | |
| 2.19 | 3.38 | 1.93 | | |
| -3.42 | -2.45 | -0.99 | | |
| 2.77 | 4.5 | 2.71 | | |
| 2.19 | 3.38 | 1.93 | | |
| -3.42 | -2.45 | -0.99 | | |
| 1.5 | 0.54 | -1.25 | | |
| 1.31 | 1.78 | 0.19 | | |
| 1.19 | 1.97 | 0.52 | | |
| 1.16 | 2.5 | 1.08 | | |
| 1.15 | -1.64 | -3.03 | | |
| 1.1 | 4.46 | 3.13 | | |
| 1.02 | 0.95 | -0.28 | | |
| -1.03 | 1.28 | 0.13 | | |
| -1.04 | 2.03 | 0.88 | | |
| -1.08 | 1.24 | 0.15 | | |
| -5.01 | 0.89 | 2.02 | | |
| -5.1 | -1.03 | 0.12 | | |
| -6.14 | -1.39 | 0.03 | | |
| -6.25 | -0.04 | 1.4 | | |
| -6.68 | -2.02 | -0.48 | | |
| 47.97 | -0.92 | -2.7 | | |
| 39.19 | -0.92 | -2.42 | | |
| 29.18 | 0.33 | -0.74 | | |
| 6.79 | -2.62 | -1.59 | | |
| 6.33 | 0.53 | 1.67 | | |
| 3.51 | -4.29 | -2.3 | | |
| 3.22 | -3.76 | -1.65 | | |
| 2.98 | -0.55 | 1.68 | | |
| 2.56 | -4.13 | -1.69 | | |
| 2.53 | -2.22 | 0.24 | | |
| 1.88 | -4.3 | -1.42 | | |
| 1.77 | -3.44 | -0.46 | | |
| 1.49 | -2.52 | 0.7 | | |
| 1.45 | 0.04 | 3.31 | | |
| 1.35 | 0.1 | 3.47 | | |
| 1.24 | -4.03 | -0.55 | | |
| 1.24 | -2.01 | 1.48 | | |
| -1.06 | -0.05 | 3.83 | | |
| -1.16 | -5.18 | -1.17 | | |
| 2.81 | 0.33 | -1.45 | | |
| 1.91 | 0.7 | -0.53 | | |
| 1.84 | -0.65 | -1.82 | | |
| 1.65 | 0.38 | -0.64 | | |
| -3.49 | -1.67 | -0.16 | | |
| 2.45 | -0.14 | -1.93 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.32 | 0.78 | -0.92 | | |
| 2.25 | -0.27 | -1.93 | | |
| 2.11 | -4.37 | -5.93 | | |
| 1.97 | 0.56 | -0.9 | | |
| 1.93 | -1.01 | -2.45 | | |
| 1.91 | -0.07 | -1.49 | | |
| 1.74 | -0.06 | -1.35 | | |
| 1.74 | -3.15 | -4.44 | | |
| 1.69 | -0.87 | -2.12 | | |
| 1.67 | 0.85 | -0.38 | | |
| 1.66 | -0.67 | -1.89 | | |
| 1.64 | -0.45 | -1.65 | | |
| 1.63 | 0.68 | -0.51 | | |
| 1.62 | 0.22 | -0.96 | | |
| 1.6 | -0.83 | -2 | | |
| 1.59 | -1.08 | -2.24 | | |
| 1.56 | -0.55 | -1.68 | | |
| 1.53 | -4.09 | -5.2 | | |
| 1.53 | -0.35 | -1.46 | | |
| 1.44 | -0.68 | -1.7 | | |
| 1.45 | -0.78 | -1.8 | | |
| 1.44 | -0.95 | -1.96 | | |
| -3.27 | -5.55 | -4.33 | | |
| 1.5 | 0.73 | -1.05 | | |
| 1.4 | 1.83 | 0.15 | | |
| 1.36 | 0.06 | -1.58 | | |
| 1.35 | -0.78 | -2.41 | | |
| 1.34 | -0.2 | -1.82 | | |
| 1.31 | -3.03 | -4.61 | | |
| 1.3 | -0.1 | -1.67 | | |
| 1.24 | 0.92 | -0.59 | | |
| 1.22 | 1.93 | 0.45 | | |
| 1.13 | -1.01 | -2.39 | | |
| 1.1 | 0.08 | -1.24 | | |
| 1.07 | -1.76 | -3.05 | | |
| 1.06 | 0.76 | -0.52 | | |
| 1.06 | 0.66 | -0.61 | | |
| 1.03 | 3.03 | 1.8 | | |
| 1.03 | 0.36 | -0.88 | | |
| 1.02 | 0.27 | -0.94 | | |
| -1.05 | 0.31 | -0.82 | | |
| -1.07 | -0.01 | -1.11 | | |
| -1.09 | 2.48 | 1.4 | | |
| -1.09 | 3.13 | 2.06 | | |
| -1.11 | -1.09 | -2.14 | | |
| -5.46 | -1.63 | -0.38 | | |
| 4.38 | 0.22 | -1.56 | | |
| 4.1 | -1.04 | -2.73 | | |
| 2.65 | 2.34 | 1.28 | | |
| 3.04 | -1.06 | -2.83 | | |
| 2.21 | -2.19 | -3.51 | | |
| 3.68 | -3.01 | -4.79 | | |
| 2.21 | -2.25 | -3.29 | | |
| 10.07 | 0.3 | -1.47 | | |
| 7.31 | 0.77 | -0.55 | | |
| 1.4 | -1.47 | -0.4 | | |
| 1.32 | -2.62 | -1.47 | | |
| 1.26 | 2.85 | 4.06 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.22 | -0.31 | 0.96 | | |
| 1.07 | 3.42 | 4.88 | | |
| 2.08 | 2.21 | 0.43 | | |
| 1.52 | -1.92 | -3.25 | | |
| 1.27 | 0.03 | -1.04 | | |
| 1.22 | 0.41 | -0.59 | | |
| -4.04 | -2.46 | -1.17 | | |
| 1.4 | 2.19 | 0.42 | | |
| 1.24 | 1.14 | -0.47 | | |
| 1.19 | 2.21 | 0.66 | | |
| 1.11 | 3.74 | 2.29 | | |
| 1.1 | 2.02 | 0.59 | | |
| 1.09 | 1.8 | 0.39 | | |
| 1.05 | 1.77 | 0.4 | | |
| -1.01 | 1.97 | 0.68 | | |
| -1.13 | 2.42 | 1.3 | | |
| -1.18 | 1.58 | 0.52 | | |
| -10.35 | -1.95 | 0.13 | | |
| -19.49 | -1.65 | 1.34 | | |
| -21.03 | -1.38 | 1.72 | | |
| -38.83 | -2.07 | 1.91 | | |
| 7.24 | -1.33 | -3.11 | | |
| 6.69 | 2.54 | 0.88 | | |
| 2.79 | 1.84 | 0.06 | | |
| 2.02 | 1.21 | -0.1 | | |
| 1.66 | 3.57 | 2.54 | | |
| 1.66 | 2.01 | 0.99 | | |
| 1.65 | 0.53 | -0.49 | | |
| -2.45 | -2.2 | -1.2 | | |
| -2.56 | 0.64 | 1.7 | | |
| -2.62 | -1.11 | -0.02 | | |
| -2.62 | -0.55 | 0.55 | | |
| -2.63 | -0.03 | 1.07 | | |
| -2.62 | -0.46 | 0.63 | | |
| -2.68 | 0.07 | 1.2 | | |
| -2.79 | -1.5 | -0.31 | | |
| -3.02 | -1.39 | -0.09 | | |
| -3.07 | 0.04 | 1.37 | | |
| -3.33 | -2.78 | -1.34 | | |
| -3.35 | -3.21 | -1.76 | | |
| -3.52 | -2.31 | -0.79 | | |
| -3.57 | -0.73 | 0.82 | | |
| -3.72 | 0.61 | 2.21 | | |
| -4.23 | -2.86 | -1.08 | | |
| -4.26 | -0.65 | 1.14 | | |
| -4.47 | -1.57 | 0.3 | | |
| -4.62 | 0.18 | 2.09 | | |
| -5.01 | -3.75 | -1.73 | | |
| -5.34 | -2.49 | -0.36 | | |
| -6.03 | -1.43 | 0.87 | | |
| -6.1 | -0.8 | 1.51 | | |
| -8 | -4.21 | -1.51 | | |
| 2.23 | 0.38 | -1.4 | | |
| 1.85 | -0.19 | -1.69 | | |
| 1.56 | -1.19 | -2.45 | | |
| 1.53 | -2.97 | -4.2 | | |
| 1.47 | -0.38 | -1.56 | | |
| 1.41 | -1.83 | -2.94 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.33 | 2.63 | 0.85 | | |
| 1.17 | 4.01 | 2.43 | | |
| 1.12 | 3.06 | 1.55 | | |
| -1.01 | -1.41 | -2.76 | | |
| -5.33 | -0.54 | 0.51 | | |
| 1.26 | -6.3 | -8.07 | | |
| -1.25 | -2.78 | -3.89 | | |
| 2.83 | -0.61 | -2.39 | | |
| -2.47 | -2.3 | -1.27 | | |
| 2.95 | 0.68 | -1.1 | | |
| 2.36 | -3.49 | -4.93 | | |
| -2.61 | -2.97 | -1.8 | | |
| -3.3 | -4.05 | -2.53 | | |
| 12.28 | -0.64 | -2.41 | | |
| 8.57 | 0.03 | -1.23 | | |
| 7.91 | -1.48 | -2.62 | | |
| 1.7 | -2.73 | -1.65 | | |
| 1.36 | -2.86 | -1.45 | | |
| 1.3 | -1.14 | 0.33 | | |
| 1.23 | -3.32 | -1.78 | | |
| 1.19 | -1.78 | -0.19 | | |
| 1.12 | -0.66 | 1.02 | | |
| 1.05 | 0.87 | 2.64 | | |
| 1.04 | -3.31 | -1.52 | | |
| -1.02 | -0.79 | 1.08 | | |
| -1.15 | -2.58 | -0.53 | | |
| -1.27 | 0.13 | 2.32 | | |
| -1.3 | -3.3 | -1.08 | | |
| 2.5 | -1.8 | -3.57 | | |
| 2.35 | -0.6 | -2.29 | | |
| 1.7 | 0.78 | -0.44 | | |
| 1.67 | -3.36 | -4.55 | | |
| 1.57 | -0.7 | -1.81 | | |
| 1.93 | 2.21 | 0.44 | | |
| 1.53 | -0.67 | -2.11 | | |
| 1.49 | 0.23 | -1.16 | | |
| 1.39 | -3.7 | -5 | | |
| 1.33 | 0.47 | -0.77 | | |
| 1.23 | 0.31 | -0.8 | | |
| 1.2 | 1 | -0.08 | | |
| 1.19 | -0.01 | -1.08 | | |
| 1.18 | 0.95 | -0.11 | | |
| 1.15 | 3.3 | 2.28 | | |
| 1.15 | 3.46 | 2.44 | | |
| -4.24 | -0.45 | 0.82 | | |
| -4.27 | 1.2 | 2.48 | | |
| -4.71 | -0.75 | 0.67 | | |
| -4.81 | -2.81 | -1.37 | | |
| 5.02 | 0.9 | -0.87 | | |
| 4.46 | 0.05 | -1.56 | | |
| 4.2 | 2.6 | 1.08 | | |
| 3.88 | 1.82 | 0.42 | | |
| 3.44 | 2.16 | 0.93 | | |
| 3.42 | 0.08 | -1.13 | | |
| 3.17 | -0.05 | -1.16 | | |
| 3.05 | 0.49 | -0.57 | | |
| -1.4 | 1.49 | 2.53 | | |
| -1.55 | 0.92 | 2.11 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.12 | -0.39 | 1.24 | | |
| 3.07 | -1.48 | -3.25 | | |
| 2.26 | 2.16 | 0.83 | | |
| 2.12 | -3.07 | -4.31 | | |
| 1.93 | -1.59 | -2.7 | | |
| -2.5 | -3.45 | -2.28 | | |
| -2.98 | -3.47 | -2.05 | | |
| 1.54 | -0.08 | -1.85 | | |
| 1.18 | -3.25 | -4.63 | | |
| 1.12 | 4.43 | 3.11 | | |
| 1.03 | -1.31 | -2.51 | | |
| 1.03 | -1.87 | -3.07 | | |
| 1.02 | -0.17 | -1.35 | | |
| 1.01 | -1.85 | -3.02 | | |
| -1 | -4.42 | -5.57 | | |
| -4.82 | -1.39 | -0.27 | | |
| -4.98 | -1.36 | -0.2 | | |
| -5.4 | -3.54 | -2.26 | | |
| -6.92 | -4.7 | -3.06 | | |
| 2.69 | -0.78 | -2.56 | | |
| 2.06 | -0.69 | -2.08 | | |
| 1.94 | 3.11 | 1.81 | | |
| 1.91 | -0.92 | -2.2 | | |
| 1.6 | 3.8 | 2.77 | | |
| -2.83 | -1.78 | -0.63 | | |
| -2.88 | -1.28 | -0.1 | | |
| -4.34 | -1.43 | 0.35 | | |
| 3.45 | 4.64 | 2.87 | | |
| 3 | 0.76 | -0.81 | | |
| 2.57 | 5.98 | 4.63 | | |
| -2 | -1.68 | -0.66 | | |
| -2.07 | -0.28 | 0.79 | | |
| -2.12 | -0.72 | 0.38 | | |
| -2.23 | -1.07 | 0.1 | | |
| -2.33 | 0.18 | 1.41 | | |
| 2.12 | -1.11 | -2.88 | | |
| 1.54 | -0.63 | -1.94 | | |
| 1.31 | 1.38 | 0.31 | | |
| -3.24 | 0.06 | 1.07 | | |
| -3.63 | -1.07 | 0.1 | | |
| -4.38 | -1.63 | -0.18 | | |
| -6.81 | -3.64 | -1.55 | | |
| 8.4 | 0.99 | -0.78 | | |
| 1.18 | 1.76 | 2.83 | | |
| 1.13 | 0.32 | 1.44 | | |
| 1.11 | 1.49 | 2.64 | | |
| -1.11 | 1.7 | 3.15 | | |
| -2.28 | 1.99 | 4.48 | | |
| -2.38 | 3.57 | 6.11 | | |
| -2.6 | -1.43 | 1.25 | | |
| -2.66 | 1.57 | 4.28 | | |
| -3.33 | -0.28 | 2.75 | | |
| -7.55 | -0.83 | 3.39 | | |
| 2.52 | 0.19 | -1.58 | | |
| 1.72 | -1.66 | -2.88 | | |
| 1.57 | 1.3 | 0.21 | | |
| 4.85 | 2.96 | 1.19 | | |
| 3.13 | -0.34 | -1.48 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.1 | -0.02 | -1.15 | | |
| -1.46 | -3.92 | -2.86 | | |
| -1.47 | -3.03 | -1.96 | | |
| 1.05 | -4.14 | -5.91 | | |
| -1.33 | -0.39 | -1.69 | | |
| -1.41 | 0.53 | -0.68 | | |
| -1.49 | 1.08 | -0.04 | | |
| -7.26 | 0.19 | 1.34 | | |
| -8.61 | -1.52 | -0.12 | | |
| 3.2 | -3.49 | -5.26 | | |
| 2.26 | -3.23 | -4.49 | | |
| 2.19 | 4.56 | 3.34 | | |
| -2.33 | -3.45 | -2.32 | | |
| 2.91 | -1.54 | -3.31 | | |
| -3.33 | -3.4 | -1.89 | | |
| 2.13 | 0.75 | -1.01 | | |
| 1.65 | 0.87 | -0.53 | | |
| 1.52 | -0.3 | -1.58 | | |
| -3.46 | -0.79 | 0.33 | | |
| 2.6 | -1.18 | -2.95 | | |
| 2.15 | -0.73 | -2.22 | | |
| 1.72 | -0.91 | -2.08 | | |
| -3.05 | -1.78 | -0.56 | | |
| -3.49 | -2.46 | -1.04 | | |
| 1.36 | -4.11 | -5.87 | | |
| 1.07 | -3.31 | -4.72 | | |
| 1.04 | -2.84 | -4.22 | | |
| 1.04 | -4.61 | -5.98 | | |
| 1.02 | -2.95 | -4.29 | | |
| 1 | -1.28 | -2.6 | | |
| -1.18 | -5.19 | -6.27 | | |
| -5.03 | -4.03 | -3.02 | | |
| 5.83 | -0.98 | -2.75 | | |
| 5.23 | -1.47 | -3.08 | | |
| 3.95 | 0.36 | -0.85 | | |
| 3.69 | -0.84 | -2.6 | | |
| 2.59 | -2 | -3.25 | | |
| 7.05 | 1.15 | -0.61 | | |
| 5.12 | 0.35 | -0.95 | | |
| -1.12 | 2.32 | 3.53 | | |
| 6.92 | 1.92 | 0.16 | | |
| 5.23 | 0.16 | -1.2 | | |
| 4.13 | 2.77 | 1.75 | | |
| 2.36 | 1.05 | -0.71 | | |
| 1.99 | 2.61 | 1.1 | | |
| 3.65 | 0.71 | -1.05 | | |
| 3 | 0.31 | -1.16 | | |
| 2.96 | 1.76 | 0.31 | | |
| 2.34 | -0.26 | -1.37 | | |
| 2.17 | -0.78 | -1.79 | | |
| 7.34 | -1.01 | -2.76 | | |
| 6.93 | 0.84 | -0.83 | | |
| -1.04 | 0.47 | 1.64 | | |
| -1.06 | 0.03 | 1.24 | | |
| 1.46 | 3.35 | 1.6 | | |
| 1.35 | 1.34 | -0.3 | | |
| 1.26 | 0.08 | -1.46 | | |
| 1.03 | -2.21 | -3.47 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.02 | -1.94 | -3.18 | | |
| 1.02 | -0.06 | -1.3 | | |
| -1.07 | -0.09 | -1.21 | | |
| -8.69 | -3.36 | -1.45 | | |
| 1.76 | 4.19 | 2.43 | | |
| 1.65 | -1.38 | -3.04 | | |
| 1.49 | -3.68 | -5.2 | | |
| 1.32 | -2.84 | -4.18 | | |
| 1.24 | -2.24 | -3.49 | | |
| 1.23 | -4.07 | -5.31 | | |
| 1.14 | 0.7 | -0.44 | | |
| 1.09 | -1.3 | -2.36 | | |
| 1.09 | 2.04 | 0.98 | | |
| -4.43 | -2.83 | -1.62 | | |
| -6.27 | -2.83 | -1.12 | | |
| 3.38 | -5.84 | -7.6 | | |
| 2.09 | -3.34 | -4.4 | | |
| -2.12 | -6.94 | -5.86 | | |
| 2.26 | -2.66 | -4.42 | | |
| 2.09 | -2.67 | -4.31 | | |
| 1.88 | -0.15 | -1.64 | | |
| 1.53 | -2.38 | -3.57 | | |
| 1.42 | -0.09 | -1.17 | | |
| 1.33 | -1.02 | -2.01 | | |
| -3.29 | -2.82 | -1.68 | | |
| 2.08 | -1.54 | -3.29 | | |
| 1.76 | 4.27 | 2.76 | | |
| 1.66 | 5.29 | 3.86 | | |
| 1.4 | -2.48 | -3.67 | | |
| -3.55 | -1.5 | -0.37 | | |
| -5.6 | -2.46 | -0.67 | | |
| 2.8 | -3.71 | -5.46 | | |
| 1.87 | -1.53 | -2.69 | | |
| 1.61 | 1.41 | -0.34 | | |
| 1.31 | -5.91 | -7.37 | | |
| 1.26 | -3.89 | -5.28 | | |
| 1.09 | -1.73 | -2.92 | | |
| 1.04 | -5.4 | -6.52 | | |
| 2.2 | -1.54 | -3.3 | | |
| 2.13 | 1.05 | -0.66 | | |
| 1.93 | 0.52 | -1.04 | | |
| 1.68 | -1.42 | -2.79 | | |
| 1.59 | 2.55 | 1.26 | | |
| 1.41 | 0.28 | -0.84 | | |
| 1.37 | 0.94 | -0.13 | | |
| -3.15 | -2.13 | -1.1 | | |
| -3.56 | -1.57 | -0.36 | | |
| -3.61 | -1.56 | -0.32 | | |
| -4.1 | -2.41 | -0.99 | | |
| -4.69 | -2.17 | -0.56 | | |
| 2.74 | 0.55 | -1.2 | | |
| 1.89 | -1.19 | -2.41 | | |
| 1.85 | 4.69 | 3.5 | | |
| 1.65 | 1.36 | 0.34 | | |
| -2.96 | -1.44 | -0.17 | | |
| -3.24 | -1.78 | -0.39 | | |
| -4.89 | -2.04 | -0.05 | | |
| 3.2 | -0.93 | -2.68 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.92 | -2.29 | -3.31 | | |
| 1.46 | -1.42 | -3.17 | | |
| 1.25 | -0.05 | -1.57 | | |
| 1.2 | 0.4 | -1.07 | | |
| -1.02 | -1.9 | -3.07 | | |
| -1.11 | -0.95 | -2.01 | | |
| 1.76 | -1.2 | -2.95 | | |
| 1.65 | 1.01 | -0.65 | | |
| 1.57 | -2.12 | -3.71 | | |
| 1.44 | -1.47 | -2.93 | | |
| 1.28 | 1.43 | 0.15 | | |
| 1.27 | -2.44 | -3.72 | | |
| 1.23 | 2.91 | 1.68 | | |
| 1.22 | 0.3 | -0.93 | | |
| 1.22 | 3.85 | 2.63 | | |
| 1.19 | -1.2 | -2.38 | | |
| 1.18 | 4.55 | 3.37 | | |
| 1.15 | -1.46 | -2.6 | | |
| 1.14 | -1.49 | -2.61 | | |
| 1.11 | 0.91 | -0.18 | | |
| 1.1 | 1.05 | -0.02 | | |
| 1.39 | 0.36 | -1.39 | | |
| 1.07 | 1.63 | 0.26 | | |
| 1.02 | -0.05 | -1.35 | | |
| -1.03 | -1.82 | -3.05 | | |
| -1.08 | -1.91 | -3.07 | | |
| -1.12 | 0.48 | -0.63 | | |
| -1.13 | -0.53 | -1.63 | | |
| -1.17 | 0.97 | -0.08 | | |
| -1.17 | 1.23 | 0.18 | | |
| -5.21 | -0.81 | 0.3 | | |
| -5.56 | -0.7 | 0.51 | | |
| 5.91 | 0.85 | -0.9 | | |
| 3.53 | 1.2 | 0.19 | | |
| -1.22 | -1.91 | -0.81 | | |
| -1.31 | -3.35 | -2.15 | | |
| 11.3 | 0.4 | -1.34 | | |
| 9.19 | -2.08 | -3.53 | | |
| 8.59 | 1.84 | 0.49 | | |
| 8.05 | 0.04 | -1.22 | | |
| 7.71 | -2.29 | -3.48 | | |
| 7.67 | 0.3 | -0.89 | | |
| 7.38 | -2.63 | -3.77 | | |
| 7.31 | 2.47 | 1.35 | | |
| 7.19 | 0.72 | -0.37 | | |
| 7.08 | 1.52 | 0.45 | | |
| 6.81 | -0.01 | -1.02 | | |
| 6.74 | 1.49 | 0.48 | | |
| 1.57 | -3.64 | -2.54 | | |
| 1.56 | 3.11 | 4.23 | | |
| 1.52 | -1.08 | 0.07 | | |
| 1.49 | -0.23 | 0.95 | | |
| 1.47 | 3.12 | 4.32 | | |
| 1.46 | 0.38 | 1.58 | | |
| 1.4 | -0.34 | 0.93 | | |
| 1.38 | -1.44 | -0.16 | | |
| 1.38 | -2.21 | -0.92 | | |
| 1.35 | -0.62 | 0.7 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.35 | -1.62 | -0.31 | | |
| 1.32 | -1.51 | -0.15 | | |
| 1.31 | -0.46 | 0.9 | | |
| 1.26 | -3.41 | -1.99 | | |
| 1.25 | -0.37 | 1.05 | | |
| 1.25 | -0.99 | 0.44 | | |
| 1.24 | -0.69 | 0.75 | | |
| 1.23 | -1.87 | -0.42 | | |
| 1.23 | -1.04 | 0.41 | | |
| 1.22 | 1.77 | 3.23 | | |
| 1.21 | 0.56 | 2.04 | | |
| 1.17 | -1.2 | 0.32 | | |
| 1.1 | 3.19 | 4.81 | | |
| -1.02 | 0.09 | 1.87 | | |
| -1.06 | -1.58 | 0.25 | | |
| -1.11 | -1.37 | 0.53 | | |
| -1.37 | -0.63 | 1.57 | | |
| -1.48 | -2.95 | -0.63 | | |
| -1.54 | -4.12 | -1.75 | | |
| -2.09 | -4.05 | -1.24 | | |
| 1.67 | -2.7 | -4.45 | | |
| 1.46 | 2.47 | 0.92 | | |
| 1.28 | -4.75 | -6.11 | | |
| 1.14 | -1.94 | -3.14 | | |
| 1.01 | -2.14 | -3.17 | | |
| -4.23 | -3.6 | -2.53 | | |
| -5.24 | -3.39 | -2.01 | | |
| 1.15 | -1.9 | -3.65 | | |
| 1.15 | -0.03 | -1.78 | | |
| 1.09 | -2.4 | -4.07 | | |
| -1.11 | 2.43 | 1.04 | | |
| -1.25 | 0.28 | -0.95 | | |
| -1.28 | -1.4 | -2.59 | | |
| -1.4 | -0.4 | -1.47 | | |
| 1.13 | -0.24 | -1.98 | | |
| -1.04 | 1.52 | 0.01 | | |
| -1.48 | 3.14 | 2.14 | | |
| 1.87 | 1.27 | -0.48 | | |
| 1.5 | -0.78 | -2.21 | | |
| 1.15 | 0.64 | -0.39 | | |
| 9.97 | 0 | -1.74 | | |
| 8.02 | 1.31 | -0.12 | | |
| 6.22 | -0.2 | -1.26 | | |
| 1.48 | 1.41 | 2.41 | | |
| 1.4 | -3.23 | -2.14 | | |
| 1.25 | 1.34 | 2.59 | | |
| 1.24 | 2.46 | 3.72 | | |
| 1.15 | -0.2 | 1.17 | | |
| 1 | -3.68 | -2.11 | | |
| -1.28 | -5.13 | -3.2 | | |
| 2.13 | 1.58 | -0.17 | | |
| 1.37 | 1.37 | 0.26 | | |
| 1.27 | -1.13 | -2.13 | | |
| -3.37 | -1.39 | -0.29 | | |
| 1.98 | -0.13 | -1.87 | | |
| 1.63 | 0.63 | -0.82 | | |
| 1.25 | 3.2 | 2.12 | | |
| 1.21 | 3.23 | 2.2 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.71 | -0.62 | -2.37 | | |
| -1.9 | -4.51 | -3.09 | | |
| 3.26 | -1.61 | -3.35 | | |
| 2.04 | -1.2 | -2.27 | | |
| 5.13 | -2.77 | -4.52 | | |
| -1.51 | -5.15 | -3.95 | | |
| 2.31 | -1.61 | -3.36 | | |
| 1.68 | -1.48 | -2.77 | | |
| 2.28 | -1.32 | -3.06 | | |
| 1.41 | 1.79 | 0.73 | | |
| -4.59 | -2.88 | -1.24 | | |
| -4.62 | -1.99 | -0.34 | | |
| 6.81 | -0.99 | -2.73 | | |
| -1.02 | -3.91 | -2.85 | | |
| -1.09 | -4.27 | -3.12 | | |
| -1.14 | -2.86 | -1.64 | | |
| 2.34 | -1.66 | -3.39 | | |
| 1.71 | -5.63 | -6.91 | | |
| 1.46 | -2.63 | -3.69 | | |
| 1.25 | -1.9 | -3.64 | | |
| 1.12 | 0.94 | -0.65 | | |
| 1.07 | -1.41 | -2.93 | | |
| -1.07 | -2 | -3.32 | | |
| -1.13 | -2.98 | -4.23 | | |
| 2.05 | -0.77 | -2.51 | | |
| 1.27 | 5.08 | 4.04 | | |
| 1.27 | -0.33 | -1.38 | | |
| 3.78 | 3.37 | 1.63 | | |
| 2.37 | -1.53 | -2.59 | | |
| -1.97 | 2.29 | 3.44 | | |
| -2.9 | -3.31 | -1.59 | | |
| 5.2 | 2.35 | 0.61 | | |
| 3.75 | 1.41 | 0.14 | | |
| -1.37 | -1.37 | -0.28 | | |
| -1.5 | -1.44 | -0.21 | | |
| 2.49 | 0.12 | -1.62 | | |
| 1.85 | -1.19 | -2.5 | | |
| 2.62 | -0.9 | -2.64 | | |
| 2.41 | 0.66 | -0.95 | | |
| 2.97 | 0.18 | -1.56 | | |
| 2.31 | 2.18 | 0.8 | | |
| 2.14 | 0.22 | -1.04 | | |
| 2.08 | 1.06 | -0.16 | | |
| -2.39 | -0.28 | 0.81 | | |
| -2.59 | -0.82 | 0.38 | | |
| -2.71 | -0.63 | 0.64 | | |
| 5.28 | 2.06 | 0.32 | | |
| -1.27 | 0 | 1 | | |
| -1.35 | 0.23 | 1.33 | | |
| 1.3 | 0.43 | -1.31 | | |
| 1.18 | 0.87 | -0.73 | | |
| 1.13 | -1.18 | -2.71 | | |
| 1.07 | -2.41 | -3.87 | | |
| 1.07 | -0.97 | -2.43 | | |
| 1.03 | -2.62 | -4.01 | | |
| -1 | -2.53 | -3.88 | | |
| -1 | -1.46 | -2.81 | | |
| -1.1 | 3.87 | 2.66 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.12 | 2.66 | 1.47 | | |
| -1.13 | 3.2 | 2.02 | | |
| -1.15 | 2.66 | 1.5 | | |
| -6.11 | -2.98 | -1.72 | | |
| 3.03 | 2.31 | 0.56 | | |
| 2.61 | -1.85 | -3.37 | | |
| 1.83 | 0.26 | -0.76 | | |
| -2.52 | -0.56 | 0.63 | | |
| -2.51 | -1.48 | -0.29 | | |
| 1.27 | 2.63 | 0.89 | | |
| -1.05 | 0.65 | -0.68 | | |
| -1.21 | 2.72 | 1.6 | | |
| 3.44 | -0.31 | -2.04 | | |
| 3.07 | -2.08 | -3.65 | | |
| 2.35 | 0.64 | -0.55 | | |
| -2.29 | -1.16 | 0.08 | | |
| -2.32 | -4.84 | -3.58 | | |
| 3.03 | 0.08 | -1.66 | | |
| 2.66 | -1.83 | -3.38 | | |
| 2.37 | -0.31 | -1.69 | | |
| 2.2 | -0.68 | -1.96 | | |
| 1.9 | -0.23 | -1.29 | | |
| -2.36 | -3.57 | -2.47 | | |
| -4.13 | -1.65 | 0.26 | | |
| 2.7 | -5.86 | -7.59 | | |
| 1.7 | -3.61 | -4.68 | | |
| 1.66 | -4.39 | -5.43 | | |
| -3.29 | -7.62 | -6.2 | | |
| 2.49 | 6.05 | 4.31 | | |
| 2.33 | 3.11 | 1.47 | | |
| 1.94 | 1.5 | 0.12 | | |
| 1.77 | -2.37 | -3.61 | | |
| 1.76 | 3 | 1.75 | | |
| 1.74 | -0.93 | -2.15 | | |
| 1.73 | 1.9 | 0.69 | | |
| 1.58 | 0.18 | -0.9 | | |
| 1.5 | 1.2 | 0.19 | | |
| 1.5 | 4.4 | 2.66 | | |
| 1.47 | 0.72 | -0.98 | | |
| 1.4 | 2.31 | 0.67 | | |
| 1.19 | 0.14 | -1.26 | | |
| 1.17 | 0.56 | -0.82 | | |
| 1.11 | -0.02 | -1.31 | | |
| -1.01 | 1.2 | 0.07 | | |
| 2.88 | 0.25 | -1.49 | | |
| 2.22 | 0.68 | -0.68 | | |
| 5.26 | -0.95 | -2.69 | | |
| 4.93 | 1.22 | -0.43 | | |
| -1.9 | -2.19 | -0.61 | | |
| 6.03 | -0.39 | -2.13 | | |
| -1.11 | -2.47 | -1.46 | | |
| -1.25 | -3.39 | -2.21 | | |
| -1.44 | -4.95 | -3.57 | | |
| -1.52 | 3.04 | 4.5 | | |
| -2.32 | -4.28 | -2.2 | | |
| 7.2 | 0.83 | -0.9 | | |
| 6.88 | -0.14 | -1.81 | | |
| 4.62 | 0.71 | -0.39 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.05 | 3.9 | 4.94 | | |
| 1.02 | 6.64 | 7.71 | | |
| 1.01 | -2.78 | -1.68 | | |
| -1.01 | 0.25 | 1.38 | | |
| 2.41 | -0.25 | -1.98 | | |
| 2.27 | 3.46 | 1.81 | | |
| 1.78 | 1.19 | -0.11 | | |
| 1.78 | -0.01 | -1.31 | | |
| 1.74 | -1.19 | -2.46 | | |
| 1.67 | -1.25 | -2.45 | | |
| 1.66 | 6.24 | 5.04 | | |
| 1.58 | -0.13 | -1.26 | | |
| 1.53 | -1.03 | -2.11 | | |
| 1.48 | 1.02 | -0.01 | | |
| -3 | -0.94 | 0.18 | | |
| -3.23 | 0.5 | 1.73 | | |
| -3.24 | -0.79 | 0.44 | | |
| 3.32 | 4.24 | 2.5 | | |
| 3.1 | 0.17 | -1.47 | | |
| 3.01 | 4.39 | 2.8 | | |
| 2.88 | 4.89 | 3.36 | | |
| 2.85 | 3.69 | 2.18 | | |
| 2.2 | 4.26 | 3.12 | | |
| 2.19 | 6.9 | 5.76 | | |
| -2.02 | 0.99 | 2 | | |
| -2.02 | 2.54 | 3.55 | | |
| -2.08 | 2.04 | 3.09 | | |
| -2.1 | 0.99 | 2.06 | | |
| -2.15 | -0.95 | 0.16 | | |
| -2.21 | 2.03 | 3.17 | | |
| -2.41 | -0.14 | 1.13 | | |
| -2.72 | 0.81 | 2.26 | | |
| 4.86 | -1.88 | -3.62 | | |
| 4.05 | -0.76 | -2.23 | | |
| 3.13 | -1.74 | -2.84 | | |
| -1.57 | 1.42 | 2.62 | | |
| -1.66 | -3.63 | -2.36 | | |
| -1.93 | 2.02 | 3.52 | | |
| 5.53 | -0.04 | -1.78 | | |
| -2.13 | 0.51 | 2.33 | | |
| 1.85 | -1.23 | -2.96 | | |
| 1.48 | 1.62 | 0.2 | | |
| 1.39 | -1.79 | -3.12 | | |
| 1.38 | -1.63 | -2.94 | | |
| 1.38 | -2.58 | -3.88 | | |
| 1.31 | -0.74 | -1.98 | | |
| 1.29 | -1.14 | -2.35 | | |
| 1.19 | -3.09 | -4.19 | | |
| 1.15 | 2.31 | 1.27 | | |
| 1.13 | 0.79 | -0.23 | | |
| 1.93 | 4.29 | 2.55 | | |
| 1.72 | 1.18 | -0.38 | | |
| 1.22 | 0.75 | -0.32 | | |
| 1.2 | -3.2 | -4.24 | | |
| 1.19 | -1.16 | -2.19 | | |
| -3.67 | -2.59 | -1.49 | | |
| -1.03 | -3.99 | -5.72 | | |
| -1.19 | -5.22 | -6.75 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.53 | -3.5 | -4.66 | | |
| -1.55 | 0.85 | -0.3 | | |
| 5.71 | 1.53 | -0.2 | | |
| -1.38 | -5.34 | -4.09 | | |
| -1.45 | -3.12 | -1.8 | | |
| -1.73 | -6.13 | -4.56 | | |
| 1.85 | -1.09 | -2.82 | | |
| 1.62 | -0.93 | -2.48 | | |
| 1.26 | -2.33 | -3.51 | | |
| 1.14 | -0.46 | -1.49 | | |
| 1.14 | -0.91 | -1.94 | | |
| -3.82 | -2.14 | -1.05 | | |
| -3.93 | -3.57 | -2.44 | | |
| 1.23 | -1.65 | -3.38 | | |
| 1.06 | -6.09 | -7.61 | | |
| -1 | -1.46 | -2.88 | | |
| -1.22 | -2.16 | -3.3 | | |
| -5.44 | -4.15 | -3.13 | | |
| -5.71 | -3.99 | -2.9 | | |
| -7.9 | -4.99 | -3.43 | | |
| 2.91 | 0.72 | -1.01 | | |
| -2.38 | -1.41 | -0.36 | | |
| -2.41 | -0.44 | 0.64 | | |
| -2.42 | -1.2 | -0.12 | | |
| -2.51 | -1.89 | -0.75 | | |
| -2.74 | -1.24 | 0.02 | | |
| -3.77 | -1.26 | 0.47 | | |
| 1.63 | 0.69 | -1.04 | | |
| 1.2 | 1.31 | 0.02 | | |
| 1.08 | 5.02 | 3.87 | | |
| 1.07 | 1.91 | 0.78 | | |
| -1.02 | 2.97 | 1.97 | | |
| 4.91 | 0.4 | -1.33 | | |
| 3.38 | 1.36 | 0.16 | | |
| 3.06 | 0.72 | -0.33 | | |
| -1.41 | -2.29 | -1.23 | | |
| -1.43 | -2.2 | -1.12 | | |
| -1.65 | -0.45 | 0.83 | | |
| 1.18 | 1.69 | -0.04 | | |
| 1.03 | 7.72 | 6.2 | | |
| -1.19 | 4.14 | 2.9 | | |
| -1.36 | 2.31 | 1.26 | | |
| 3.09 | -3.93 | -5.66 | | |
| 1.88 | -2.08 | -3.09 | | |
| -2.53 | -6.82 | -5.58 | | |
| -3.01 | -5.35 | -3.86 | | |
| -4.2 | -9.64 | -7.67 | | |
| 2.84 | 3.36 | 1.63 | | |
| -2.5 | -3.22 | -2.13 | | |
| -2.92 | -2.28 | -0.96 | | |
| 3.03 | -0.87 | -2.6 | | |
| -2.54 | -2.33 | -1.11 | | |
| -2.57 | -0.73 | 0.51 | | |
| -4.16 | -3.07 | -1.14 | | |
| 2.6 | -1.44 | -3.17 | | |
| 2.19 | 2.2 | 0.72 | | |
| 1.67 | -1.53 | -2.62 | | |
| 1.62 | 5.11 | 4.07 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.58 | 4.3 | 2.57 | | |
| 1.57 | -1.05 | -2.76 | | |
| 1.2 | -0.61 | -1.94 | | |
| 1.2 | -1.5 | -2.83 | | |
| 1.17 | 1.54 | 0.25 | | |
| -1.03 | 1.87 | 0.85 | | |
| -4.85 | -1.47 | -0.26 | | |
| -5.76 | -1.63 | -0.17 | | |
| -6.03 | -1.4 | 0.13 | | |
| -6.58 | -1.48 | 0.18 | | |
| 3.32 | 0.76 | -0.96 | | |
| -3.31 | -2.57 | -0.83 | | |
| -4.18 | -3.07 | -1 | | |
| 5.61 | -1.91 | -3.64 | | |
| -1.21 | -4.84 | -3.81 | | |
| -2.38 | -3.63 | -1.62 | | |
| 5.11 | -0.45 | -2.18 | | |
| 3.24 | -0.52 | -1.59 | | |
| 4.74 | -0.76 | -2.48 | | |
| 4.14 | 1.59 | 0.06 | | |
| 2.95 | 0.72 | -0.31 | | |
| 1.25 | -5.07 | -6.8 | | |
| 1.19 | 2.74 | 1.08 | | |
| 1.1 | -4.85 | -6.39 | | |
| 1.05 | -0.15 | -1.62 | | |
| 1.01 | -2.1 | -3.52 | | |
| -1.14 | -1.46 | -2.68 | | |
| -1.18 | -2.55 | -3.73 | | |
| -1.18 | -4.1 | -5.27 | | |
| -1.24 | -3.22 | -4.32 | | |
| -1.27 | -1.5 | -2.56 | | |
| -1.32 | -2.34 | -3.35 | | |
| 2.79 | -0.71 | -2.43 | | |
| -2.56 | -2.76 | -1.64 | | |
| -2.94 | -3.33 | -2.02 | | |
| 2.47 | 0.06 | -1.67 | | |
| 1.5 | -1.37 | -2.37 | | |
| 1.5 | -1.12 | -2.84 | | |
| 1.46 | -0.03 | -1.71 | | |
| 1.23 | 1.59 | 0.15 | | |
| 1.18 | -4.03 | -5.41 | | |
| 1.06 | -1.54 | -2.76 | | |
| 1.01 | -0.32 | -1.47 | | |
| -1.06 | -2.92 | -3.97 | | |
| -1.08 | -1.53 | -2.57 | | |
| 6.66 | -2.55 | -4.27 | | |
| 5.55 | -3.15 | -4.61 | | |
| 5.42 | -4.33 | -5.76 | | |
| 4.07 | -1.68 | -2.69 | | |
| -1.01 | -3.66 | -2.64 | | |
| -1.02 | -6.08 | -5.03 | | |
| -1.03 | -7.55 | -6.5 | | |
| -1.03 | -6.52 | -5.45 | | |
| -1.07 | -5.23 | -4.12 | | |
| -1.07 | -4.34 | -3.23 | | |
| -1.12 | -6.13 | -4.95 | | |
| 1.6 | 2.64 | 0.92 | | |
| 1.12 | 1.27 | 0.07 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.06 | 1.26 | 0.13 | | |
| 1.01 | 2.62 | 1.57 | | |
| 1.88 | 1.3 | -0.42 | | |
| 1.43 | 1.39 | 0.06 | | |
| 1.34 | -1.87 | -3.1 | | |
| 1.27 | 5.51 | 4.35 | | |
| -3.88 | -2.26 | -1.12 | | |
| 9.73 | -1.19 | -2.92 | | |
| 8.56 | -1.73 | -3.26 | | |
| 6.32 | -1.31 | -2.41 | | |
| 1.4 | -3.93 | -2.85 | | |
| 1.35 | -4.96 | -3.83 | | |
| 1.33 | -3.68 | -2.53 | | |
| 1.31 | -5.19 | -4.02 | | |
| 1.29 | -2.34 | -1.14 | | |
| 1.26 | -3.99 | -2.77 | | |
| 1.16 | -0.5 | 0.85 | | |
| 1.14 | 0.99 | 2.37 | | |
| -1 | -0.84 | 0.73 | | |
| -1.02 | -5.3 | -3.71 | | |
| 2.12 | 0.37 | -1.35 | | |
| 1.61 | -0.36 | -1.69 | | |
| 1.37 | -1.37 | -2.47 | | |
| 1.3 | 2.81 | 1.78 | | |
| -3.69 | -0.84 | 0.4 | | |
| 22.21 | 0.8 | -0.92 | | |
| 14.11 | -1.43 | -2.49 | | |
| 2.73 | -1.27 | 0.04 | | |
| 1.81 | -1.36 | 0.54 | | |
| 1.62 | 1.46 | 3.52 | | |
| 1.24 | -4.55 | -2.1 | | |
| 1.2 | 1.64 | 4.14 | | |
| 1.04 | -1.58 | 1.12 | | |
| 1.14 | 2.26 | 0.54 | | |
| 1.04 | 0.43 | -1.16 | | |
| 1.02 | -1.91 | -3.47 | | |
| -1.03 | 0.06 | -1.43 | | |
| -1.03 | 1.12 | -0.36 | | |
| -1.1 | 1.45 | 0.05 | | |
| -1.17 | -3.51 | -4.81 | | |
| -1.29 | -3.94 | -5.1 | | |
| -1.38 | 1.38 | 0.32 | | |
| -1.39 | -1.2 | -2.25 | | |
| 3.9 | 3.7 | 1.98 | | |
| 3.61 | 3.59 | 1.98 | | |
| 2.49 | 0.76 | -0.32 | | |
| -3.7 | -1.05 | 1.08 | | |
| 3 | -2.26 | -3.98 | | |
| 2.57 | -2 | -3.5 | | |
| 2.51 | -3.84 | -5.3 | | |
| 1.44 | -1.88 | -3.6 | | |
| 1.39 | 1.97 | 0.31 | | |
| 1.34 | -2.48 | -4.08 | | |
| 1.33 | 1.04 | -0.57 | | |
| 1.2 | 2.42 | 0.97 | | |
| 1.16 | 0.62 | -0.78 | | |
| 1.15 | -0.24 | -1.63 | | |
| 1.01 | -0.13 | -1.33 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.06 | -1.34 | -2.45 | | |
| 3.43 | 0.13 | -1.58 | | |
| 2.48 | -1.39 | -2.64 | | |
| 2.33 | 1.11 | -0.05 | | |
| 2.17 | -1.07 | -2.12 | | |
| 1.84 | -3.9 | -5.62 | | |
| 1.37 | -3.52 | -4.82 | | |
| -3.74 | -2.71 | -1.65 | | |
| 4.36 | 1.82 | 0.1 | | |
| 2.67 | 2.61 | 1.6 | | |
| 2.9 | 1.78 | 0.06 | | |
| 2.1 | -0.88 | -2.14 | | |
| 2.06 | 2.01 | 0.78 | | |
| -4.77 | -3.66 | -1.59 | | |
| 3.1 | 1.29 | -0.42 | | |
| -2.51 | -3.44 | -2.2 | | |
| 4.03 | -0.68 | -2.4 | | |
| 3.56 | -2.06 | -3.6 | | |
| 3.31 | -2.1 | -3.53 | | |
| 2.8 | 0.19 | -1 | | |
| -1.66 | -0.71 | 0.31 | | |
| 5.17 | 1.81 | 0.09 | | |
| 3.97 | 1.29 | -0.04 | | |
| 3.83 | 1.12 | -0.16 | | |
| 3.64 | 0.12 | -1.09 | | |
| 3.22 | 1.29 | 0.26 | | |
| 4.76 | -0.62 | -2.34 | | |
| -1.38 | 0.96 | 1.96 | | |
| -1.4 | -2.37 | -1.35 | | |
| -1.52 | 1.89 | 3.03 | | |
| -1.68 | 1.46 | 2.74 | | |
| -1.71 | -2.8 | -1.49 | | |
| -1.76 | 0.28 | 1.63 | | |
| -1.79 | 0.23 | 1.6 | | |
| -1.88 | 1.21 | 2.66 | | |
| -1.95 | 1.91 | 3.41 | | |
| -2.11 | -2.02 | -0.41 | | |
| -2.63 | 0.61 | 2.54 | | |
| 2.76 | 0.04 | -1.68 | | |
| 2.08 | 0.08 | -1.23 | | |
| 1.88 | -0.35 | -1.51 | | |
| 1.79 | 0.69 | -0.4 | | |
| -2.39 | -2.42 | -1.42 | | |
| -3.96 | -2.83 | -1.1 | | |
| 2.15 | 2.12 | 0.41 | | |
| 1.99 | 0.26 | -1.34 | | |
| 1.85 | 0.38 | -1.12 | | |
| 1.74 | 0.43 | -0.98 | | |
| 1.46 | 1.83 | 0.68 | | |
| 1.42 | 1.05 | -0.06 | | |
| 1.4 | 0.57 | -0.52 | | |
| 1.4 | 6.77 | 5.68 | | |
| 1.34 | 1.44 | 0.41 | | |
| -4.23 | 1.05 | 2.52 | | |
| 3.3 | -0.42 | -2.13 | | |
| -2 | -2.33 | -1.31 | | |
| -2.36 | -4.42 | -3.17 | | |
| -2.62 | -3.6 | -2.2 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.69 | -4.63 | -2.73 | | |
| 3.74 | 2.08 | 0.37 | | |
| 2.6 | 0.34 | -0.84 | | |
| 2.86 | -0.99 | -2.7 | | |
| 1.83 | -0.08 | -1.15 | | |
| 1.88 | -2.48 | -4.19 | | |
| 1.55 | 0.01 | -1.43 | | |
| 1.52 | 2.77 | 1.36 | | |
| 1.49 | 0.22 | -1.16 | | |
| 1.18 | 3.57 | 2.54 | | |
| 1.16 | 0.29 | -0.72 | | |
| 3.97 | -2.35 | -4.05 | | |
| 2.63 | 0.22 | -0.89 | | |
| -1.73 | -1.56 | -0.49 | | |
| -1.81 | -2.33 | -1.18 | | |
| -1.96 | -4.08 | -2.82 | | |
| -3.32 | -3.54 | -1.52 | | |
| 1.63 | -1.37 | -3.08 | | |
| 1.59 | 1.65 | -0.02 | | |
| 1.48 | -0.9 | -2.48 | | |
| 1.01 | -1.06 | -2.08 | | |
| -1.01 | -1.85 | -2.85 | | |
| 2.85 | -0.6 | -2.3 | | |
| 1.88 | -1.24 | -2.34 | | |
| 1.62 | -2.79 | -4.5 | | |
| 1.11 | -5.55 | -6.72 | | |
| 1.06 | 0.45 | -0.65 | | |
| 2.63 | -2.34 | -4.05 | | |
| -2.65 | -1.03 | 0.06 | | |
| -3.69 | -3.64 | -2.07 | | |
| 2.52 | -1.56 | -3.27 | | |
| 1.97 | 1.03 | -0.31 | | |
| 1.81 | -1.19 | -2.42 | | |
| 1.64 | 0.47 | -0.61 | | |
| 1.6 | -0.62 | -1.67 | | |
| -3.32 | -3.51 | -2.15 | | |
| 3.01 | -2.07 | -3.77 | | |
| 2.76 | -1.15 | -2.72 | | |
| 2.52 | -0.56 | -2.01 | | |
| 2.41 | 0.04 | -1.35 | | |
| 2.35 | -3.44 | -4.78 | | |
| 2.02 | 0.06 | -1.06 | | |
| 1.3 | -3.98 | -5.68 | | |
| 1.25 | 2.67 | 1.03 | | |
| 1.08 | -4.32 | -5.76 | | |
| 1.04 | -3.75 | -5.14 | | |
| -1.05 | -2.05 | -3.31 | | |
| -1.11 | -1.81 | -2.98 | | |
| -1.22 | -1.23 | -2.27 | | |
| -5.53 | -3.45 | -2.31 | | |
| -5.77 | -3.37 | -2.17 | | |
| -5.98 | -2.4 | -1.15 | | |
| -6.62 | -3.55 | -2.15 | | |
| 2.01 | -2.58 | -4.29 | | |
| 1.56 | -1.69 | -3.03 | | |
| -3.39 | -0.32 | 0.74 | | |
| -3.8 | -0.29 | 0.94 | | |
| -4.24 | 0.17 | 1.56 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.67 | -2.39 | -4.1 | | |
| 2.16 | -4.24 | -5.65 | | |
| 2.07 | -4.63 | -5.97 | | |
| 1.92 | -3.88 | -5.11 | | |
| 1.66 | -5.56 | -6.58 | | |
| 1.7 | -0.3 | -2 | | |
| 1.19 | 1.7 | 0.51 | | |
| 1.41 | -0.61 | -2.32 | | |
| 1.22 | 1.51 | 0.01 | | |
| 1.12 | 4.88 | 3.5 | | |
| -1.05 | 2.43 | 1.29 | | |
| -1.08 | 2.32 | 1.23 | | |
| -1.1 | 3.06 | 1.99 | | |
| -1.14 | 0.95 | -0.07 | | |
| -4.97 | -0.09 | 1.02 | | |
| -5.75 | -1.9 | -0.59 | | |
| -5.88 | -0.86 | 0.49 | | |
| -10.54 | -1.73 | 0.46 | | |
| -13.28 | -2.28 | 0.24 | | |
| 1.92 | 2.53 | 0.82 | | |
| 1.26 | -3.48 | -4.58 | | |
| 1.65 | 2.33 | 0.62 | | |
| 1.18 | -0.34 | -1.56 | | |
| 1.18 | 3.66 | 2.43 | | |
| 1.05 | 3.69 | 2.63 | | |
| 2.1 | 2.11 | 0.4 | | |
| 1.84 | -0.82 | -2.34 | | |
| -3.14 | -2.32 | -1.3 | | |
| -3.3 | -3.22 | -2.14 | | |
| -3.35 | -2.37 | -1.26 | | |
| -3.7 | -1.98 | -0.73 | | |
| -4.34 | -2.77 | -1.28 | | |
| 2.07 | -3.41 | -5.12 | | |
| 1.51 | -0.31 | -1.55 | | |
| 1.48 | -1.42 | -2.63 | | |
| 2.7 | 1.78 | 0.07 | | |
| 1.81 | -1.89 | -3.02 | | |
| 1.78 | 1.44 | 0.33 | | |
| -2.86 | -3.58 | -2.34 | | |
| 2.8 | 1.64 | -0.06 | | |
| 1.75 | -0.91 | -1.93 | | |
| -3.19 | -1.43 | 0.03 | | |
| 1.21 | 4.51 | 2.81 | | |
| 1.17 | 1.76 | 0.11 | | |
| 1.16 | 4.17 | 2.53 | | |
| 1.09 | 1.49 | -0.07 | | |
| -1.01 | 3.16 | 1.74 | | |
| -1.12 | 4.22 | 2.95 | | |
| -6.48 | -2.56 | -1.3 | | |
| 4.41 | 1.92 | 0.22 | | |
| 4.25 | 2.33 | 0.69 | | |
| 3.37 | 0.69 | -0.62 | | |
| 3.21 | 0.4 | -0.85 | | |
| 2.8 | 1.19 | 0.14 | | |
| -1.52 | 3.48 | 4.52 | | |
| 4.74 | 0.05 | -1.66 | | |
| -1.52 | -2.73 | -1.58 | | |
| 2.58 | -2.19 | -3.89 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.97 | 1.84 | 0.52 | | |
| 1.79 | -4.16 | -5.34 | | |
| 1.76 | -1.53 | -2.68 | | |
| 3.06 | 2.56 | 0.86 | | |
| -2.21 | 1.49 | 2.55 | | |
| -2.4 | -0.53 | 0.65 | | |
| 3.37 | -2.58 | -4.28 | | |
| -2.1 | -3.85 | -2.73 | | |
| 3.05 | -2.52 | -4.22 | | |
| 2.07 | -2.11 | -3.25 | | |
| 1.92 | -2.03 | -3.06 | | |
| -2.92 | -5.25 | -3.8 | | |
| -1.21 | -1.52 | -3.22 | | |
| -1.21 | -1.3 | -3.01 | | |
| -1.31 | -0.8 | -2.39 | | |
| -1.31 | 1.82 | 0.24 | | |
| -1.47 | -5.02 | -6.44 | | |
| -1.57 | -2.37 | -3.69 | | |
| -1.71 | 4.17 | 2.97 | | |
| -1.97 | 3.88 | 2.89 | | |
| 3.94 | -1.29 | -2.99 | | |
| 2.49 | 0.27 | -0.77 | | |
| -2.05 | 2 | 3.31 | | |
| -2.38 | -2.36 | -0.83 | | |
| 2.4 | -2.99 | -4.68 | | |
| 1.82 | -1.54 | -2.84 | | |
| 1.54 | 3.74 | 2.68 | | |
| -4.65 | -3.32 | -1.54 | | |
| -5.38 | -4.48 | -2.49 | | |
| -5.43 | -4.82 | -2.81 | | |
| -5.55 | -1.29 | 0.74 | | |
| 1.99 | -0.4 | -2.09 | | |
| 1.64 | -1.11 | -2.52 | | |
| 1.47 | 0.94 | -0.32 | | |
| 1.39 | -0.34 | -1.52 | | |
| 1.35 | 1.29 | 0.15 | | |
| 1.44 | -0.97 | -2.67 | | |
| 1.39 | -4.45 | -6.1 | | |
| 1.25 | -4.73 | -6.23 | | |
| 1.12 | -0.41 | -1.74 | | |
| 1.07 | 5.14 | 3.87 | | |
| -1 | 0.82 | -0.35 | | |
| -5.32 | -5.75 | -4.51 | | |
| -6.4 | -1.98 | -0.47 | | |
| 2.28 | -1.22 | -2.92 | | |
| -3.4 | -1.34 | -0.08 | | |
| 3.5 | -4.74 | -6.43 | | |
| 2.42 | -4.44 | -5.6 | | |
| 2.12 | 2.45 | 0.76 | | |
| 1.7 | 0.24 | -1.14 | | |
| 1.57 | 2.41 | 1.14 | | |
| 1.56 | 2.72 | 1.46 | | |
| 1.49 | 1.42 | 0.22 | | |
| 1.46 | -0.09 | -1.25 | | |
| 1.45 | 0.76 | -0.39 | | |
| 1.4 | 1.55 | 0.45 | | |
| 1.34 | 0.87 | -0.17 | | |
| -3.18 | 0.51 | 1.56 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.58 | -0.18 | 1.04 | | |
| -4.49 | -0.52 | 1.03 | | |
| -4.49 | -0.19 | 1.36 | | |
| -4.8 | -2.12 | -0.47 | | |
| -5.73 | -2.03 | -0.13 | | |
| 1.19 | 2.73 | 1.03 | | |
| 1.06 | -1.26 | -2.8 | | |
| 1.01 | -2.11 | -3.57 | | |
| -1.14 | -1.47 | -2.73 | | |
| -1.18 | -2.56 | -3.78 | | |
| 3.38 | 2.3 | 0.6 | | |
| -2.33 | -1.68 | -0.4 | | |
| -2.33 | -1.4 | -0.11 | | |
| 1.49 | 2.06 | 0.37 | | |
| 1.49 | -0.36 | -2.05 | | |
| 1.39 | -2.79 | -4.38 | | |
| 1.17 | 1.83 | 0.49 | | |
| 1.13 | 2.98 | 1.69 | | |
| 1.09 | 0.24 | -0.99 | | |
| 1 | 2.72 | 1.6 | | |
| 3.21 | -2.3 | -3.99 | | |
| 2.39 | -4.28 | -5.54 | | |
| -2 | -0.53 | 0.46 | | |
| -2.13 | -2.06 | -0.97 | | |
| -2.29 | -2.48 | -1.3 | | |
| -2.32 | -3.84 | -2.63 | | |
| -2.33 | 0.89 | 2.1 | | |
| -3.09 | -4.62 | -3 | | |
| -3.9 | -2.05 | -0.09 | | |
| 4.13 | 1.31 | -0.38 | | |
| -1.7 | 1.59 | 2.72 | | |
| -1.72 | -1.94 | -0.81 | | |
| -1.81 | 0.26 | 1.48 | | |
| 3.42 | -5.04 | -6.73 | | |
| -2.31 | -5.86 | -4.57 | | |
| 23.19 | -0.25 | -1.95 | | |
| 16.08 | -1.5 | -2.67 | | |
| 16.03 | -1.24 | -2.4 | | |
| 3.57 | 1.62 | 2.62 | | |
| 3.1 | -3.83 | -2.62 | | |
| 2.94 | -2.43 | -1.14 | | |
| 2.76 | -0.86 | 0.52 | | |
| 2.75 | 0.15 | 1.54 | | |
| 2.48 | -0.57 | 0.96 | | |
| 2.4 | -3.78 | -2.2 | | |
| 2.1 | -0.77 | 1 | | |
| 1.79 | -3.46 | -1.46 | | |
| 1.75 | -1.52 | 0.52 | | |
| 1.71 | -1.45 | 0.62 | | |
| 1.46 | -0.92 | 1.37 | | |
| 1.42 | -4.01 | -1.67 | | |
| 1.33 | -4.84 | -2.4 | | |
| 1.13 | -2.08 | 0.58 | | |
| 1.13 | -5.44 | -2.78 | | |
| 1.11 | 0.77 | 3.46 | | |
| 1.08 | -5.01 | -2.28 | | |
| -1.05 | -3.96 | -1.06 | | |
| -1.55 | -5.13 | -1.65 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.96 | -2.99 | 0.83 | | |
| 4.38 | -0.78 | -2.47 | | |
| -1.47 | 4.12 | 5.11 | | |
| -1.66 | -2.36 | -1.19 | | |
| 3.36 | -3.04 | -4.73 | | |
| 2.23 | -3.67 | -4.77 | | |
| -1.94 | -1.25 | -0.24 | | |
| -1.94 | -4.97 | -3.96 | | |
| -1.96 | -4.25 | -3.22 | | |
| -2.33 | -1.66 | -0.39 | | |
| -2.45 | -3.17 | -1.83 | | |
| 2.05 | 2.64 | 0.94 | | |
| 1.64 | -1.04 | -2.41 | | |
| 1.42 | 0.96 | -0.2 | | |
| 1.39 | 1.75 | 0.62 | | |
| -4.23 | -1.32 | 0.11 | | |
| 1.62 | -2.66 | -4.35 | | |
| 1.25 | 1.18 | -0.14 | | |
| 1.13 | 1.8 | 0.62 | | |
| 1.12 | 0.47 | -0.69 | | |
| 1.07 | -2.39 | -3.47 | | |
| 2.39 | 1.14 | -0.54 | | |
| 1.55 | -1.67 | -2.73 | | |
| 2.02 | 0.63 | -1.06 | | |
| 2 | -1.58 | -3.25 | | |
| 1.44 | 0.9 | -0.3 | | |
| 1.41 | -0.66 | -1.83 | | |
| 1.33 | 0.12 | -0.97 | | |
| 1.26 | -0.36 | -1.37 | | |
| -3.76 | -1.84 | -0.6 | | |
| -4.02 | -2.18 | -0.84 | | |
| 2.53 | -3.64 | -5.33 | | |
| -2.63 | -2.69 | -1.64 | | |
| -3.82 | -3.14 | -1.55 | | |
| -4.14 | -6.35 | -4.65 | | |
| -7.41 | -6.05 | -3.51 | | |
| 1.78 | 2.36 | 0.68 | | |
| 1.18 | 0.87 | -0.22 | | |
| 1.17 | 1.39 | 0.31 | | |
| -5.96 | -2.12 | -0.4 | | |
| 2.56 | -1.35 | -3.04 | | |
| 2.15 | -2.02 | -3.46 | | |
| 1.59 | -1.77 | -2.77 | | |
| -2.83 | -0.78 | 0.38 | | |
| -3.38 | -2.58 | -1.16 | | |
| -3.48 | -2.14 | -0.67 | | |
| -4.04 | -2.87 | -1.19 | | |
| -4.16 | -2.6 | -0.88 | | |
| 2.85 | 1.84 | 0.15 | | |
| -2.51 | -2.38 | -1.24 | | |
| -3.09 | -4.27 | -2.82 | | |
| 2.46 | 2.52 | 0.83 | | |
| -2.92 | -0.16 | 1 | | |
| 9.28 | -0.15 | -1.84 | | |
| 7.76 | -1.09 | -2.52 | | |
| 6.61 | -0.76 | -1.95 | | |
| 6.35 | 0.12 | -1.02 | | |
| 6.02 | -0.09 | -1.15 | | |

| | | | | |
|-------|-------|-------|--|--|
| 5.84 | -0.87 | -1.89 | | |
| 1.38 | -0.09 | 0.97 | | |
| 1.34 | -0.84 | 0.26 | | |
| 1.34 | -2.07 | -0.97 | | |
| 1.32 | 1.09 | 2.21 | | |
| 1.24 | 0.52 | 1.73 | | |
| 1.2 | -0.83 | 0.43 | | |
| 1.16 | -0.15 | 1.17 | | |
| 1.15 | 0.58 | 1.9 | | |
| 1.12 | -1.75 | -0.39 | | |
| 1.01 | -0.09 | 1.43 | | |
| -1.3 | -0.54 | 1.36 | | |
| 3.88 | -0.99 | -2.67 | | |
| 2.49 | -3.95 | -5 | | |
| -1.76 | -5.26 | -4.17 | | |
| -2.18 | -6.44 | -5.04 | | |
| 1.78 | 0.97 | -0.71 | | |
| 1.61 | 1.67 | 0.13 | | |
| 1.46 | 0.78 | -0.63 | | |
| 1.33 | 2.05 | 0.78 | | |
| 1.3 | 1.36 | 0.12 | | |
| 1.3 | 3.9 | 2.67 | | |
| 1.2 | 0.41 | -0.71 | | |
| 1.14 | -0.15 | -1.19 | | |
| 1.13 | 1.36 | 0.33 | | |
| 1.11 | -1.5 | -2.5 | | |
| 5.62 | -0.91 | -2.59 | | |
| 3.91 | 0.26 | -0.9 | | |
| -1.18 | 0.76 | 1.8 | | |
| -1.22 | -3.07 | -1.97 | | |
| -1.46 | -2.35 | -1 | | |
| -1.54 | -3 | -1.57 | | |
| -1.6 | -1.46 | 0.02 | | |
| -1.64 | -1.56 | -0.04 | | |
| -1.68 | -4.06 | -2.51 | | |
| -1.9 | -1.83 | -0.1 | | |
| -1.92 | -1.22 | 0.53 | | |
| -2.14 | -0.7 | 1.2 | | |
| -4.33 | -1.92 | 1 | | |
| 2.1 | -3.21 | -4.9 | | |
| 2.03 | -0.45 | -2.09 | | |
| 1.89 | 4.24 | 2.7 | | |
| 1.54 | 3.64 | 2.39 | | |
| 1.45 | 2.75 | 1.59 | | |
| -3.41 | -2.54 | -1.39 | | |
| 2.58 | -0.38 | -2.07 | | |
| 1.99 | -3.5 | -4.81 | | |
| 1.69 | -3.01 | -4.08 | | |
| -2.67 | -3.81 | -2.71 | | |
| -2.71 | -4.62 | -3.51 | | |
| -3.01 | -3.17 | -1.9 | | |
| 1.62 | 1.03 | -0.66 | | |
| 1.4 | -0.19 | -1.66 | | |
| 1.26 | 2.23 | 0.9 | | |
| 1.13 | -2.69 | -3.87 | | |
| 3.45 | -4.76 | -6.45 | | |
| 2.49 | -2.66 | -3.88 | | |
| 2.21 | -2.45 | -3.49 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.43 | -2.39 | -4.07 | | |
| 2.04 | -3.01 | -4.44 | | |
| 1.78 | -1.65 | -2.89 | | |
| 1.56 | 0.2 | -0.85 | | |
| -2.72 | -2.65 | -1.62 | | |
| -3.16 | -4.09 | -2.84 | | |
| -3.19 | -3.25 | -1.98 | | |
| 11.03 | 0.9 | -0.78 | | |
| 7.04 | 0.29 | -0.74 | | |
| 1.7 | -1.24 | -0.22 | | |
| 1.45 | -0.62 | 0.63 | | |
| 1.3 | 2.8 | 4.2 | | |
| 1.27 | 2.81 | 4.24 | | |
| 1.06 | 1.38 | 3.08 | | |
| 1.6 | -7.19 | -8.87 | | |
| 1.03 | -1.29 | -2.33 | | |
| 4.9 | -0.93 | -2.61 | | |
| 3.12 | -2.8 | -3.83 | | |
| -1.32 | -4.5 | -3.49 | | |
| -1.5 | -3.82 | -2.63 | | |
| 1.86 | -1.79 | -3.47 | | |
| 1.85 | 3.36 | 1.69 | | |
| 1.82 | -0.38 | -2.03 | | |
| 1.44 | 2.89 | 1.58 | | |
| 1.19 | 1.51 | 0.48 | | |
| 1.17 | 0.64 | -0.37 | | |
| 1.16 | 0.51 | -0.49 | | |
| 1.9 | -8.31 | -10 | | |
| 1.35 | -4.02 | -5.22 | | |
| 1.24 | -5.88 | -6.95 | | |
| -5.56 | -2.91 | -1.19 | | |
| -8.61 | -7 | -4.65 | | |
| 1.46 | 2.61 | 0.93 | | |
| 1.3 | -2.57 | -4.09 | | |
| 1.06 | -2.1 | -3.33 | | |
| -1 | -1.27 | -2.41 | | |
| 2.59 | 0.39 | -1.29 | | |
| 1.65 | 1.41 | 0.37 | | |
| 1.73 | 2.75 | 1.07 | | |
| 1.62 | -0.76 | -2.34 | | |
| 1.13 | 3.41 | 2.34 | | |
| 1.12 | -1.34 | -2.39 | | |
| 4.1 | 1.51 | -0.17 | | |
| 2.97 | 1.01 | -0.2 | | |
| 2.97 | -0.24 | -1.45 | | |
| 2.57 | 3.65 | 2.64 | | |
| -1.98 | -1.7 | -0.36 | | |
| 2.73 | -2.97 | -4.65 | | |
| 2.38 | -2.76 | -4.25 | | |
| 2.03 | -2.94 | -4.19 | | |
| 2.03 | 0.86 | -0.82 | | |
| 1.55 | -0.69 | -1.97 | | |
| 3.29 | -0.77 | -2.45 | | |
| 2.63 | -0.53 | -1.89 | | |
| 2.58 | 0.27 | -1.05 | | |
| 3.01 | -2.69 | -4.37 | | |
| 2.76 | 1.1 | -0.45 | | |
| 2.68 | 0.62 | -0.89 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.23 | -1.8 | -0.74 | | |
| -2.5 | -2.58 | -1.34 | | |
| -3.3 | -2.35 | -0.72 | | |
| 2.12 | 2.44 | 0.76 | | |
| 1.7 | 0.22 | -1.14 | | |
| 1.57 | 2.39 | 1.15 | | |
| 1.56 | 2.7 | 1.47 | | |
| 1.53 | 1.89 | 0.68 | | |
| 1.49 | 1.4 | 0.22 | | |
| 1.46 | -0.11 | -1.25 | | |
| 1.4 | 1.53 | 0.45 | | |
| 1.34 | 0.85 | -0.17 | | |
| -3.18 | 0.49 | 1.57 | | |
| -3.58 | -0.2 | 1.04 | | |
| -4.49 | -0.21 | 1.36 | | |
| -4.49 | -0.54 | 1.03 | | |
| -4.8 | -2.14 | -0.47 | | |
| -5.73 | -2.05 | -0.13 | | |
| 2.12 | 2.44 | 0.76 | | |
| 1.7 | 0.22 | -1.14 | | |
| 1.57 | 2.39 | 1.15 | | |
| 1.56 | 2.7 | 1.47 | | |
| 1.53 | 1.89 | 0.68 | | |
| 1.49 | 1.4 | 0.22 | | |
| 1.46 | -0.11 | -1.25 | | |
| 1.4 | 1.53 | 0.45 | | |
| 1.34 | 0.85 | -0.17 | | |
| -3.18 | 0.49 | 1.57 | | |
| -3.58 | -0.2 | 1.04 | | |
| -4.49 | -0.21 | 1.36 | | |
| -4.49 | -0.54 | 1.03 | | |
| -4.8 | -2.14 | -0.47 | | |
| -5.73 | -2.05 | -0.13 | | |
| 2.12 | 2.44 | 0.76 | | |
| 1.7 | 0.22 | -1.14 | | |
| 1.57 | 2.39 | 1.15 | | |
| 1.56 | 2.7 | 1.47 | | |
| 1.53 | 1.89 | 0.68 | | |
| 1.49 | 1.4 | 0.22 | | |
| 1.46 | -0.11 | -1.25 | | |
| 1.4 | 1.53 | 0.45 | | |
| 1.34 | 0.85 | -0.17 | | |
| -3.18 | 0.49 | 1.57 | | |
| -3.58 | -0.2 | 1.04 | | |
| -4.49 | -0.21 | 1.36 | | |
| -4.49 | -0.54 | 1.03 | | |
| -4.8 | -2.14 | -0.47 | | |
| -5.73 | -2.05 | -0.13 | | |
| 1.87 | 2.04 | 0.37 | | |
| 1.84 | 1.71 | 0.07 | | |
| 1.75 | 3.2 | 1.62 | | |
| 1.34 | 3.21 | 2.02 | | |
| 1.18 | -0.35 | -1.36 | | |
| -3.76 | -0.7 | 0.44 | | |
| -3.83 | 0.19 | 1.36 | | |
| 2.8 | 2.27 | 0.6 | | |
| 1.79 | 2.01 | 0.98 | | |
| -2.73 | -2.76 | -1.5 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.97 | 0.75 | -0.92 | | |
| 1.79 | -3.6 | -5.13 | | |
| 1.46 | 3.04 | 1.8 | | |
| 1.31 | -0.8 | -1.88 | | |
| 1.52 | 0.36 | -1.31 | | |
| 1.29 | -2.82 | -4.25 | | |
| 1.28 | -1.23 | -2.65 | | |
| 1.19 | -0.61 | -1.94 | | |
| 1.04 | -2.61 | -3.74 | | |
| -5.29 | -0.53 | 0.8 | | |
| -5.89 | -4.85 | -3.36 | | |
| -6.48 | -2.11 | -0.48 | | |
| -6.8 | -3.24 | -1.55 | | |
| 1.62 | -2.5 | -4.17 | | |
| 1.47 | -3.87 | -5.4 | | |
| 1.31 | -2.22 | -3.58 | | |
| 1.12 | -5.26 | -6.4 | | |
| 1.1 | -2.77 | -3.89 | | |
| 1.09 | -2.72 | -3.82 | | |
| 1.05 | -4.72 | -5.76 | | |
| 1.67 | 0.4 | -1.28 | | |
| 1.6 | -1.73 | -3.34 | | |
| 1.29 | -2.28 | -3.58 | | |
| 1.29 | -3 | -4.3 | | |
| 1.21 | -0.53 | -1.73 | | |
| 1.16 | -1.06 | -2.21 | | |
| 1.15 | -3.09 | -4.22 | | |
| 1.1 | -2.05 | -3.12 | | |
| 1.09 | 1.22 | 0.17 | | |
| 1.08 | -4.31 | -5.35 | | |
| -6.39 | -3.24 | -1.5 | | |
| 3.85 | -2.67 | -4.34 | | |
| 2.56 | -1.57 | -2.66 | | |
| 3.34 | -0.9 | -2.57 | | |
| 2.26 | -3.76 | -4.87 | | |
| -1.93 | -0.9 | 0.11 | | |
| -1.95 | -4.04 | -3.01 | | |
| -1.95 | -3.1 | -2.08 | | |
| -2.16 | -2.91 | -1.73 | | |
| -2.17 | -2.9 | -1.71 | | |
| -3.78 | -3.44 | -1.46 | | |
| -3.8 | -5.53 | -3.53 | | |
| 2.93 | -4.72 | -6.39 | | |
| 1.93 | -3.6 | -4.67 | | |
| 1.77 | -3.45 | -5.12 | | |
| 1.16 | -2.57 | -3.64 | | |
| 1 | 1.68 | 0 | | |
| -1.52 | -2.94 | -4 | | |
| -8.94 | -3.47 | -1.98 | | |
| -12.58 | -2.33 | -0.34 | | |
| 2.16 | 4.84 | 3.16 | | |
| 1.58 | 0.42 | -0.8 | | |
| -3.57 | -2.34 | -1.06 | | |
| -4.13 | -1.07 | 0.41 | | |
| 1.36 | 0.26 | -1.41 | | |
| 1.14 | -0.23 | -1.64 | | |
| 1.09 | -2 | -3.35 | | |
| 1.08 | 0.78 | -0.55 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.07 | 5.63 | 4.31 | | |
| -1.04 | -0.44 | -1.61 | | |
| 1.96 | -2.33 | -4 | | |
| 1.33 | -3.34 | -4.45 | | |
| -3.33 | -2.01 | -0.97 | | |
| -3.36 | -3.99 | -2.94 | | |
| -3.91 | -3.12 | -1.86 | | |
| 3.01 | 2.73 | 1.06 | | |
| 2.89 | 0.73 | -0.89 | | |
| 2.15 | 2.08 | 0.89 | | |
| 2.06 | 1.96 | 0.83 | | |
| -2.19 | -0.13 | 0.92 | | |
| -2.76 | -3.07 | -1.69 | | |
| 8.49 | 0.76 | -0.91 | | |
| 6.22 | 1.02 | -0.2 | | |
| 5.54 | 0.59 | -0.46 | | |
| 1.24 | 0.52 | 1.63 | | |
| 1.14 | -0.65 | 0.57 | | |
| 1.08 | -1.43 | -0.12 | | |
| 1.03 | -0.03 | 1.35 | | |
| -1.07 | 2.84 | 4.35 | | |
| -1.11 | -1.36 | 0.2 | | |
| -1.12 | -2.73 | -1.15 | | |
| -1.6 | -0.94 | 1.17 | | |
| -2.33 | -0.31 | 2.33 | | |
| 2.35 | -2.67 | -4.34 | | |
| -3.34 | -2.01 | -0.71 | | |
| 2.09 | 1.68 | 0.01 | | |
| 1.87 | -1.83 | -3.34 | | |
| 1.74 | -1.15 | -2.56 | | |
| 1.5 | 2.72 | 1.53 | | |
| 1.4 | 1.1 | 0 | | |
| 1.4 | 1.15 | 0.05 | | |
| 1.37 | 0.64 | -0.43 | | |
| 1.31 | 0.91 | -0.09 | | |
| 4.62 | -3.13 | -4.8 | | |
| -1.51 | -3.16 | -2.02 | | |
| 1.5 | 4.41 | 2.74 | | |
| -6.07 | -1.02 | 0.5 | | |
| 2.36 | -3.54 | -5.21 | | |
| 1.68 | -1.56 | -2.74 | | |
| 1.56 | -3.83 | -4.9 | | |
| -2.69 | -1.79 | -0.79 | | |
| -8.3 | -5.44 | -2.82 | | |
| -1.01 | 1.8 | 0.13 | | |
| -1.16 | -0.46 | -1.93 | | |
| -1.45 | 1.31 | 0.17 | | |
| 3.21 | 1.82 | 0.15 | | |
| 2.72 | -0.5 | -1.93 | | |
| 2.67 | 0.33 | -1.07 | | |
| 2.19 | 0.66 | -0.46 | | |
| -8.7 | 1.89 | 5.03 | | |
| 1.68 | -1.32 | -2.99 | | |
| 1.64 | -2 | -3.63 | | |
| 1.56 | 0.54 | -1.02 | | |
| 1.36 | 1.66 | 0.3 | | |
| 1.16 | -2.07 | -3.19 | | |
| 1.11 | -1.74 | -2.81 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.09 | 0.19 | -0.85 | | |
| 2.33 | 1.16 | -0.51 | | |
| 1.84 | -0.87 | -2.19 | | |
| 1.62 | 1.05 | -0.09 | | |
| -3.05 | -2.41 | -1.25 | | |
| 1.46 | -2.43 | -4.09 | | |
| 1.34 | -4.29 | -5.84 | | |
| 1.17 | -2.02 | -3.37 | | |
| 1.11 | -5.31 | -6.59 | | |
| -1.04 | -1.12 | -2.19 | | |
| -1.08 | -4.23 | -5.24 | | |
| -1.08 | -3.51 | -4.51 | | |
| 2.31 | -2.32 | -3.99 | | |
| 2.09 | 0.62 | -0.9 | | |
| 2.04 | -0.57 | -2.06 | | |
| 1.89 | -1.89 | -3.26 | | |
| 1.54 | -3.23 | -4.31 | | |
| 1.47 | -1.21 | -2.23 | | |
| 1.29 | -2.61 | -4.27 | | |
| -1.06 | 0.95 | -0.26 | | |
| 2.85 | 1.16 | -0.51 | | |
| 1.87 | -1.75 | -2.81 | | |
| -2.29 | -0.26 | 0.78 | | |
| -2.32 | -0.99 | 0.07 | | |
| -2.53 | -2.86 | -1.68 | | |
| 2.31 | -0.78 | -2.45 | | |
| 1.57 | 4.45 | 3.34 | | |
| -3.12 | 0.45 | 1.64 | | |
| -3.26 | -0.99 | 0.26 | | |
| 2.68 | -1.64 | -3.31 | | |
| 2.17 | -4 | -5.36 | | |
| 1.93 | -3.71 | -4.9 | | |
| 1.79 | -1.07 | -2.15 | | |
| 1.76 | -1.9 | -2.96 | | |
| 1.74 | -2.45 | -3.49 | | |
| 1.69 | -1.69 | -2.68 | | |
| -2.65 | -3.59 | -2.42 | | |
| -2.69 | -5.58 | -4.4 | | |
| 4.07 | 0.49 | -1.17 | | |
| 2.81 | -2.25 | -3.38 | | |
| -1.78 | -2.39 | -1.2 | | |
| 1.68 | -3.16 | -4.83 | | |
| 1.67 | -2.94 | -4.59 | | |
| 1.41 | -1.18 | -2.6 | | |
| 1.33 | -3.53 | -4.87 | | |
| 1.11 | -1.84 | -2.91 | | |
| 1.08 | -0.63 | -1.66 | | |
| 1.06 | -3.08 | -4.08 | | |
| 2.64 | 2.27 | 0.61 | | |
| 2.32 | 0.44 | -1.04 | | |
| 2.15 | -0.08 | -1.45 | | |
| 2.03 | 1.56 | 0.28 | | |
| 1.97 | 1.4 | 0.16 | | |
| 2.08 | 0.99 | -0.68 | | |
| 1.36 | -0.5 | -1.56 | | |
| -3.24 | -1.21 | -0.13 | | |
| -3.35 | -0.7 | 0.43 | | |
| -3.69 | -1.97 | -0.7 | | |

| | | | | |
|--------|-------|-------|--|--|
| -3.99 | -1.81 | -0.42 | | |
| 2.9 | -2.5 | -4.17 | | |
| -2.23 | -2.51 | -1.48 | | |
| -2.75 | -3.01 | -1.67 | | |
| -2.84 | 3.18 | 4.56 | | |
| 1.19 | 2.81 | 1.15 | | |
| 1.12 | -5.62 | -7.21 | | |
| 1.1 | -4.78 | -6.33 | | |
| 1.09 | -3.75 | -5.3 | | |
| 1.05 | -0.07 | -1.56 | | |
| 1.01 | -2.03 | -3.46 | | |
| -1.07 | -6.68 | -8.01 | | |
| -1.18 | -2.48 | -3.66 | | |
| -1.18 | -4.03 | -5.21 | | |
| -1.22 | -1.52 | -2.65 | | |
| -1.24 | -3.15 | -4.25 | | |
| -1.25 | -2.18 | -3.27 | | |
| -1.27 | -1.42 | -2.5 | | |
| 2.09 | -1.09 | -2.75 | | |
| 1.49 | 5.21 | 4.04 | | |
| 1.45 | 1.33 | 0.2 | | |
| 2.37 | -0.35 | -2.01 | | |
| 1.91 | -1.12 | -2.46 | | |
| 1.96 | -0.08 | -1.74 | | |
| 1.62 | 4.56 | 3.17 | | |
| 1.62 | 1.48 | 0.09 | | |
| 1.37 | 3.22 | 2.07 | | |
| 1.34 | 1.2 | 0.08 | | |
| -3.37 | 0.57 | 1.63 | | |
| -3.96 | -2.34 | -1.05 | | |
| -3.97 | -1.62 | -0.33 | | |
| -4.46 | -2.63 | -1.17 | | |
| -4.84 | -0.06 | 1.52 | | |
| -5.54 | -0.42 | 1.35 | | |
| -5.97 | -0.94 | 0.94 | | |
| -6.08 | -3.77 | -1.87 | | |
| -6.17 | -2.49 | -0.56 | | |
| -6.8 | -2.02 | 0.05 | | |
| -7.02 | -2.92 | -0.8 | | |
| -13.06 | -3.26 | -0.25 | | |
| 1.57 | 0.53 | -1.13 | | |
| 1.31 | -0.2 | -1.6 | | |
| 1.1 | -1.8 | -2.95 | | |
| 1.01 | -1.01 | -2.04 | | |
| -4.55 | -1.35 | -0.17 | | |
| -4.93 | 0.22 | 1.51 | | |
| -5.2 | 0.11 | 1.47 | | |
| -6.38 | -2.25 | -0.59 | | |
| 6.28 | -2.16 | -3.82 | | |
| -1.1 | 3.56 | 4.68 | | |
| -1.32 | 1.86 | 3.25 | | |
| 1.96 | -0.31 | -1.97 | | |
| 1.41 | -1.07 | -2.26 | | |
| 1.37 | 0.05 | -1.1 | | |
| 1.35 | -1.02 | -2.14 | | |
| 1.3 | -0.26 | -1.33 | | |
| 1.26 | 0.21 | -0.82 | | |
| 1.71 | -1.37 | -3.03 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.52 | -1.58 | -3.07 | | |
| 1.23 | -3.4 | -4.58 | | |
| 1.22 | 0.67 | -0.5 | | |
| 1.2 | -0.38 | -1.53 | | |
| -4.37 | -3.33 | -2.08 | | |
| 1.19 | -1.83 | -3.49 | | |
| 1.17 | -3.27 | -4.9 | | |
| -1.01 | -3.9 | -5.3 | | |
| -1.04 | 1.23 | -0.13 | | |
| -1.06 | 0.22 | -1.11 | | |
| -1.06 | 1.86 | 0.54 | | |
| -1.16 | 0.16 | -1.03 | | |
| -5.61 | 0.59 | 1.66 | | |
| -6.13 | -2.03 | -0.83 | | |
| -6.99 | -2.99 | -1.59 | | |
| -7.17 | -0.16 | 1.27 | | |
| -8.53 | -1.96 | -0.27 | | |
| 1.68 | -2.07 | -3.73 | | |
| 1.57 | -1.86 | -3.42 | | |
| 1.1 | -2.28 | -3.32 | | |
| 1.08 | -3.38 | -4.4 | | |
| -5.24 | -3.89 | -2.41 | | |
| 1.28 | -0.47 | -2.13 | | |
| 1.23 | 2.7 | 1.1 | | |
| 1.19 | 1.6 | 0.05 | | |
| 1.07 | -1.49 | -2.89 | | |
| -1.05 | 3.21 | 1.98 | | |
| -1.07 | 1.23 | 0.03 | | |
| -1.13 | 1.38 | 0.26 | | |
| -1.15 | 5.4 | 4.3 | | |
| -1.17 | -1.64 | -2.71 | | |
| -1.22 | 0.55 | -0.47 | | |
| -5.64 | -0.46 | 0.74 | | |
| -5.71 | -2.77 | -1.56 | | |
| 18.14 | -0.65 | -2.31 | | |
| 14.24 | 0.17 | -1.14 | | |
| 11.98 | -0.42 | -1.49 | | |
| 11.5 | -0.93 | -1.93 | | |
| 2.42 | -0.06 | 1.18 | | |
| 1.61 | 0.75 | 2.58 | | |
| 1.56 | -0.49 | 1.39 | | |
| 1.55 | -4.63 | -2.74 | | |
| 1.54 | -1.02 | 0.88 | | |
| 1.49 | -1.01 | 0.93 | | |
| 1.38 | 0.75 | 2.81 | | |
| 1.3 | -0.14 | 1.99 | | |
| 1.17 | 1.58 | 3.87 | | |
| 1.09 | -1.89 | 0.5 | | |
| -1.01 | 0.29 | 2.83 | | |
| -1.14 | 0.01 | 2.71 | | |
| 5.67 | 0.58 | -1.08 | | |
| -1.12 | -0.11 | 0.89 | | |
| -1.22 | 1.63 | 2.76 | | |
| 5.38 | -0.94 | -2.6 | | |
| 4.83 | 1.3 | -0.2 | | |
| 4.69 | 0.32 | -1.13 | | |
| 4.24 | 0.35 | -0.96 | | |
| 4.12 | -1.15 | -2.42 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.02 | 0.75 | -0.48 | | |
| 3.81 | -1.04 | -2.2 | | |
| -1.18 | -0.18 | 0.83 | | |
| -1.55 | 0.06 | 1.46 | | |
| -1.7 | 0.76 | 2.3 | | |
| -1.71 | -1.73 | -0.18 | | |
| -1.95 | 2.38 | 4.11 | | |
| 7.71 | 2.1 | 0.43 | | |
| 5.87 | -3.2 | -4.46 | | |
| 5.43 | 1.04 | -0.12 | | |
| 1.18 | -1.01 | 0.04 | | |
| 1.06 | 2.48 | 3.69 | | |
| -1.04 | 4.12 | 5.46 | | |
| 5.05 | 1.77 | 0.11 | | |
| -1.38 | 0.82 | 1.96 | | |
| 1.73 | 2.2 | 0.54 | | |
| -3.8 | 2.22 | 3.27 | | |
| -6.3 | 2.27 | 4.05 | | |
| -7.05 | 1.15 | 3.1 | | |
| 1.27 | 2.99 | 1.34 | | |
| 1.21 | 0.11 | -1.47 | | |
| 1.17 | 3.55 | 2.01 | | |
| -1.05 | -3.09 | -4.32 | | |
| -1.11 | -2.2 | -3.36 | | |
| -1.13 | 2.8 | 1.66 | | |
| -1.14 | -0.2 | -1.32 | | |
| 12.45 | -3.13 | -4.78 | | |
| 12.21 | -1.19 | -2.82 | | |
| 1.97 | 1.51 | 2.51 | | |
| 1.97 | 1.14 | 2.15 | | |
| 1.94 | 1.63 | 2.66 | | |
| 1.92 | 1.35 | 2.39 | | |
| 1.86 | 1.37 | 2.46 | | |
| 1.86 | 2.14 | 3.23 | | |
| 1.83 | -3.44 | -2.33 | | |
| 1.8 | 2.67 | 3.81 | | |
| 1.79 | 1.73 | 2.87 | | |
| 1.77 | -2.78 | -1.62 | | |
| 1.78 | 2.47 | 3.62 | | |
| 1.68 | 2.48 | 3.72 | | |
| 1.62 | 2.31 | 3.6 | | |
| 1.62 | -2.89 | -1.6 | | |
| 1.6 | 1.87 | 3.17 | | |
| 1.57 | 1.93 | 3.27 | | |
| 1.46 | 2.07 | 3.51 | | |
| 1.41 | 2.72 | 4.21 | | |
| 1.1 | -7.54 | -5.69 | | |
| -1.08 | -6.9 | -4.8 | | |
| -2.27 | -7.71 | -4.54 | | |
| 3.71 | 0.84 | -0.81 | | |
| 2.84 | 0.3 | -0.97 | | |
| 2.52 | -0.87 | -1.96 | | |
| -1.89 | 4.69 | 5.85 | | |
| -2.29 | -2.7 | -1.26 | | |
| 2.73 | -3.07 | -4.72 | | |
| 2.49 | -2.67 | -4.19 | | |
| -2.62 | -2.4 | -1.21 | | |
| -2.96 | -4.43 | -3.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.03 | -0.02 | -1.67 | | |
| 2.61 | 3.7 | 2.26 | | |
| 2.12 | 0.95 | -0.2 | | |
| 2.03 | 0.78 | -0.3 | | |
| -2.28 | -1.21 | -0.07 | | |
| -2.43 | -2.21 | -0.99 | | |
| -2.46 | -2.74 | -1.5 | | |
| -2.81 | -2.16 | -0.72 | | |
| -2.83 | -1.42 | 0.03 | | |
| -2.92 | -0.84 | 0.65 | | |
| -3.26 | -1.99 | -0.34 | | |
| 1.75 | -0.5 | -2.15 | | |
| 1.36 | -1.01 | -2.3 | | |
| -3.6 | 0.3 | 1.3 | | |
| -6.5 | -1.9 | -0.05 | | |
| 2.49 | 2.04 | 0.39 | | |
| 2.39 | 2.7 | 1.11 | | |
| 1.81 | -0.45 | -1.64 | | |
| 1.78 | 4.52 | 3.35 | | |
| 1.66 | 3.95 | 2.88 | | |
| -2.52 | -0.27 | 0.72 | | |
| -2.58 | 0.02 | 1.05 | | |
| -3.33 | -0.05 | 1.35 | | |
| -4.41 | -0.1 | 1.7 | | |
| 1.1 | 3.08 | 1.43 | | |
| -1.15 | 1.61 | 0.31 | | |
| 1.47 | 2.08 | 0.43 | | |
| 1.16 | -0.66 | -1.97 | | |
| 1.11 | -0.52 | -1.77 | | |
| 1.11 | -2.08 | -3.32 | | |
| 1.06 | 2.7 | 1.53 | | |
| 1.5 | 0.65 | -1 | | |
| 1.4 | 1.75 | 0.19 | | |
| 1.36 | -0.02 | -1.53 | | |
| 1.35 | -0.86 | -2.37 | | |
| 1.34 | -0.27 | -1.77 | | |
| 1.31 | -3.1 | -4.56 | | |
| 1.3 | -0.18 | -1.63 | | |
| 1.28 | -1.47 | -2.9 | | |
| 1.24 | 0.84 | -0.54 | | |
| 1.22 | 1.85 | 0.49 | | |
| 1.14 | 1.19 | -0.07 | | |
| 1.13 | -1.09 | -2.34 | | |
| 1.1 | 0.01 | -1.2 | | |
| 1.07 | -1.84 | -3 | | |
| 1.06 | 0.68 | -0.48 | | |
| 1.06 | 0.59 | -0.57 | | |
| 1.03 | 2.96 | 1.84 | | |
| 1.03 | 0.28 | -0.83 | | |
| 1.02 | 0.2 | -0.9 | | |
| -1.05 | 0.23 | -0.78 | | |
| -4.35 | -0.99 | 0.06 | | |
| -5.46 | -1.71 | -0.33 | | |
| 1.19 | 2.74 | 1.08 | | |
| 1.1 | -4.85 | -6.39 | | |
| 1.05 | -0.15 | -1.62 | | |
| 1.01 | -2.1 | -3.52 | | |
| -1 | -6.73 | -8.14 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.14 | -1.46 | -2.68 | | |
| -1.18 | -2.55 | -3.73 | | |
| -1.18 | -4.1 | -5.27 | | |
| -1.25 | -3.12 | -4.21 | | |
| -1.27 | -1.5 | -2.56 | | |
| -1.32 | -2.34 | -3.35 | | |
| -1.32 | -5.93 | -6.94 | | |
| 1.19 | 2.74 | 1.08 | | |
| 1.1 | -4.85 | -6.39 | | |
| 1.05 | -0.15 | -1.62 | | |
| 1.01 | -2.1 | -3.52 | | |
| -1 | -6.73 | -8.14 | | |
| -1.14 | -1.46 | -2.68 | | |
| -1.18 | -2.55 | -3.73 | | |
| -1.18 | -4.1 | -5.27 | | |
| -1.25 | -3.12 | -4.21 | | |
| -1.27 | -1.5 | -2.56 | | |
| -1.32 | -2.34 | -3.35 | | |
| -1.32 | -5.93 | -6.94 | | |
| 1.19 | 2.74 | 1.08 | | |
| 1.1 | -4.85 | -6.39 | | |
| 1.05 | -0.15 | -1.62 | | |
| 1.01 | -2.1 | -3.52 | | |
| -1 | -6.73 | -8.14 | | |
| -1.14 | -1.46 | -2.68 | | |
| -1.18 | -2.55 | -3.73 | | |
| -1.18 | -4.1 | -5.27 | | |
| -1.25 | -3.12 | -4.21 | | |
| -1.27 | -1.5 | -2.56 | | |
| -1.32 | -2.34 | -3.35 | | |
| -1.32 | -5.93 | -6.94 | | |
| 2.32 | 2.54 | 0.89 | | |
| 1.63 | -0.03 | -1.17 | | |
| 1.5 | 0.52 | -0.5 | | |
| 2.42 | -1.24 | -2.89 | | |
| -2.87 | -3.21 | -2.07 | | |
| -2.88 | -4.56 | -3.41 | | |
| -3.32 | -3.8 | -2.44 | | |
| -6.28 | -3.86 | -1.59 | | |
| 28.06 | -1.37 | -3.02 | | |
| 21.74 | -0.55 | -1.83 | | |
| 17.93 | 0.04 | -0.96 | | |
| 3.57 | 0.27 | 1.6 | | |
| 3.55 | 0.24 | -1.41 | | |
| -1.8 | -0.48 | 0.55 | | |
| -1.93 | -0.49 | 0.63 | | |
| -2.43 | -0.31 | 1.15 | | |
| 1.97 | 0.4 | -1.25 | | |
| 1.79 | -3.95 | -5.46 | | |
| 1.46 | 2.69 | 1.47 | | |
| 1.31 | -1.15 | -2.21 | | |
| 1.9 | 1.38 | -0.27 | | |
| 1.7 | -3.53 | -5.03 | | |
| 1.35 | -3.69 | -5.34 | | |
| 1.28 | -3.07 | -4.65 | | |
| 1.12 | 1.1 | -0.29 | | |
| 1.11 | -3.6 | -4.96 | | |
| -9.86 | -4.86 | -2.78 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.17 | -0.12 | -1.78 | | |
| -1.05 | -1.17 | -2.51 | | |
| -1.05 | -1.17 | -2.51 | | |
| -1.05 | -1.17 | -2.51 | | |
| -1.1 | 3.01 | 1.72 | | |
| -1.18 | 2.59 | 1.41 | | |
| -5.51 | 0.21 | 1.24 | | |
| -6.18 | -2.34 | -1.13 | | |
| -6.35 | -2.66 | -1.42 | | |
| -6.35 | -2.66 | -1.42 | | |
| -6.96 | -2.91 | -1.54 | | |
| -6.96 | -2.91 | -1.54 | | |
| -7.65 | -2.69 | -1.17 | | |
| -9.46 | -0.21 | 1.61 | | |
| -9.46 | -0.21 | 1.61 | | |
| -12.96 | -1.95 | 0.33 | | |
| -12.96 | -1.95 | 0.33 | | |
| -28.09 | -2.86 | 0.53 | | |
| 1.93 | -2.18 | -3.83 | | |
| 1.35 | -4.43 | -5.57 | | |
| 1.28 | 0.1 | -0.95 | | |
| -3.71 | -2.65 | -1.45 | | |
| -4.64 | -3.81 | -2.3 | | |
| 3.59 | -2.07 | -3.72 | | |
| -1.76 | -1.73 | -0.73 | | |
| 5.24 | -2.98 | -4.63 | | |
| -1.24 | -3.81 | -2.76 | | |
| -1.25 | -6.51 | -5.45 | | |
| -1.42 | -5.09 | -3.85 | | |
| -2.1 | -5.94 | -4.13 | | |
| -5.74 | -4.9 | -1.64 | | |
| 1.33 | 1.38 | -0.27 | | |
| 1.1 | 1.38 | 0.01 | | |
| 1.02 | -2.48 | -3.75 | | |
| -1.01 | 0.92 | -0.3 | | |
| -1.05 | 3.91 | 2.75 | | |
| -1.09 | -0.1 | -1.21 | | |
| 3.4 | -4.59 | -6.24 | | |
| 3.04 | -3.66 | -5.15 | | |
| 2.43 | -4.73 | -5.9 | | |
| -1.95 | -2.29 | -1.21 | | |
| -2.7 | -4.37 | -2.82 | | |
| 1.97 | 3.25 | 1.6 | | |
| -4.09 | -1.79 | -0.43 | | |
| 1.82 | 0.06 | -1.59 | | |
| 1.81 | 3.3 | 1.65 | | |
| 1.31 | -0.39 | -1.56 | | |
| 1.24 | -0.56 | -1.65 | | |
| 1.18 | -0.91 | -1.93 | | |
| 2.02 | -1.42 | -3.07 | | |
| 1.66 | -3.72 | -5.08 | | |
| 1.29 | 3.84 | 2.84 | | |
| -4.27 | -2.61 | -1.15 | | |
| 1.99 | -1.24 | -2.89 | | |
| 1.58 | 1.47 | 0.15 | | |
| 4.68 | 1.4 | -0.25 | | |
| 3.13 | -0.03 | -1.1 | | |
| -1.6 | -1.33 | -0.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.12 | 2.4 | 0.75 | | |
| 1.7 | 0.18 | -1.15 | | |
| 1.57 | 2.36 | 1.14 | | |
| 1.56 | 2.67 | 1.46 | | |
| 1.49 | 1.36 | 0.22 | | |
| 1.46 | -0.15 | -1.26 | | |
| 1.4 | 1.49 | 0.44 | | |
| -2.98 | 0.74 | 1.75 | | |
| -3.18 | 0.46 | 1.56 | | |
| -3.58 | -0.24 | 1.04 | | |
| -4.49 | -0.57 | 1.03 | | |
| -4.49 | -0.24 | 1.36 | | |
| -4.8 | -2.17 | -0.48 | | |
| -5.73 | -2.09 | -0.13 | | |
| 2.12 | 2.4 | 0.75 | | |
| 1.7 | 0.18 | -1.15 | | |
| 1.57 | 2.36 | 1.14 | | |
| 1.56 | 2.67 | 1.46 | | |
| 1.49 | 1.36 | 0.22 | | |
| 1.46 | -0.15 | -1.26 | | |
| 1.4 | 1.49 | 0.44 | | |
| -2.98 | 0.74 | 1.75 | | |
| -3.18 | 0.46 | 1.56 | | |
| -3.58 | -0.24 | 1.04 | | |
| -4.49 | -0.57 | 1.03 | | |
| -4.49 | -0.24 | 1.36 | | |
| -4.8 | -2.17 | -0.48 | | |
| -5.73 | -2.09 | -0.13 | | |
| 2.12 | 2.4 | 0.75 | | |
| 1.7 | 0.18 | -1.15 | | |
| 1.57 | 2.36 | 1.14 | | |
| 1.56 | 2.67 | 1.46 | | |
| 1.49 | 1.36 | 0.22 | | |
| 1.46 | -0.15 | -1.26 | | |
| 1.4 | 1.49 | 0.44 | | |
| -2.98 | 0.74 | 1.75 | | |
| -3.18 | 0.46 | 1.56 | | |
| -3.58 | -0.24 | 1.04 | | |
| -4.49 | -0.57 | 1.03 | | |
| -4.49 | -0.24 | 1.36 | | |
| -4.8 | -2.17 | -0.48 | | |
| -5.73 | -2.09 | -0.13 | | |
| 2 | 0.1 | -1.55 | | |
| 1.89 | 4.53 | 2.97 | | |
| 1.88 | 1.72 | 0.16 | | |
| 1.28 | 0.08 | -0.92 | | |
| 1.8 | 3.13 | 1.49 | | |
| 1.33 | 1.64 | 0.43 | | |
| 1.31 | -0.16 | -1.34 | | |
| 1.25 | 0.04 | -1.07 | | |
| 1.19 | 0.78 | -0.26 | | |
| 1.17 | 2.91 | 1.89 | | |
| -3.57 | -0.78 | 0.26 | | |
| -3.68 | -2.62 | -1.54 | | |
| -4.08 | -0.07 | 1.16 | | |
| -4.09 | 1.67 | 2.91 | | |
| -4.37 | -0.93 | 0.4 | | |
| -4.61 | 0.03 | 1.44 | | |

| | | | | |
|--------|-------|-------|--|--|
| -4.76 | -0.67 | 0.79 | | |
| -5.05 | -1.91 | -0.37 | | |
| -6.29 | -0.41 | 1.45 | | |
| -7.62 | -1.74 | 0.39 | | |
| -9.1 | -3.61 | -1.22 | | |
| -18.21 | -2.92 | 0.47 | | |
| 2.94 | -0.05 | -1.7 | | |
| 1.99 | 0.29 | -0.79 | | |
| 3.84 | -4.42 | -6.07 | | |
| 2.66 | -4.28 | -5.4 | | |
| -1.75 | -4.16 | -3.06 | | |
| -1.87 | -5.74 | -4.55 | | |
| -2.02 | -5.92 | -4.61 | | |
| 1.24 | -2.99 | -4.64 | | |
| 1.1 | -4.67 | -6.15 | | |
| -1.12 | -5.46 | -6.63 | | |
| -1.21 | -1.24 | -2.31 | | |
| -9.26 | -3.91 | -2.04 | | |
| -9.49 | -4.26 | -2.35 | | |
| 9.76 | 1.37 | -0.28 | | |
| 1.53 | 1.82 | 2.85 | | |
| 1.47 | -1.68 | -0.59 | | |
| 1.29 | 2.28 | 3.55 | | |
| 1.1 | -0.39 | 1.12 | | |
| -1.1 | 2.87 | 4.65 | | |
| -1.11 | 3.55 | 5.34 | | |
| -1.26 | 0.07 | 2.04 | | |
| 1.32 | -0.67 | -2.32 | | |
| 1.22 | -6.56 | -8.1 | | |
| 1.2 | -3.71 | -5.21 | | |
| 1.1 | 2.53 | 1.15 | | |
| 1.02 | 4.29 | 3.01 | | |
| -1.04 | 3.38 | 2.19 | | |
| -1.15 | -5.42 | -6.46 | | |
| 1.92 | -2.45 | -4.1 | | |
| 1.49 | -5.88 | -7.16 | | |
| 1.23 | -0.03 | -1.04 | | |
| -3.68 | -4.75 | -3.58 | | |
| 1.85 | -0.58 | -2.23 | | |
| 1.4 | 0.88 | -0.36 | | |
| 1.23 | 0.11 | -0.94 | | |
| 1.22 | -1.21 | -2.25 | | |
| -3.39 | -2.55 | -1.54 | | |
| -3.47 | -2.4 | -1.37 | | |
| -3.69 | -1.12 | 0 | | |
| -4.07 | -1.28 | -0.01 | | |
| 1.67 | -1.57 | -3.21 | | |
| 1.56 | -2.42 | -3.97 | | |
| 1.48 | -1.21 | -2.68 | | |
| 1.13 | 1.43 | 0.34 | | |
| 1.11 | -0.1 | -1.16 | | |
| 1.08 | 1.22 | 0.2 | | |
| 1.84 | -0.19 | -1.83 | | |
| 1.25 | 3.91 | 2.82 | | |
| 2.65 | 0.58 | -1.06 | | |
| 1.78 | 0.65 | -0.42 | | |
| 4.08 | 2.09 | 0.45 | | |
| -1.54 | 2.59 | 3.59 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.55 | 0.88 | 1.9 | | |
| -1.56 | 1.9 | 2.93 | | |
| -1.61 | 1.74 | 2.81 | | |
| -1.74 | 0.59 | 1.78 | | |
| -1.76 | -0.73 | 0.47 | | |
| 3.96 | -0.66 | -2.3 | | |
| 3.11 | -0.73 | -2.02 | | |
| 2.53 | -0.66 | -1.66 | | |
| -1.8 | -2.79 | -1.61 | | |
| -1.8 | -2.52 | -1.34 | | |
| 2.3 | -0.58 | -2.22 | | |
| 1.49 | -2.42 | -3.44 | | |
| 2.66 | -3.9 | -5.54 | | |
| 1.74 | -0.89 | -1.92 | | |
| -2.7 | -4.23 | -3.03 | | |
| 1.08 | -1.04 | -2.68 | | |
| 1 | -2.58 | -4.12 | | |
| -1.24 | 5.58 | 4.36 | | |
| -1.36 | 3.23 | 2.15 | | |
| 1.09 | -0.21 | -1.85 | | |
| -1.08 | -1.29 | -2.7 | | |
| -1.17 | -3.31 | -4.6 | | |
| 1.58 | 1.5 | -0.15 | | |
| 1.27 | 0.57 | -0.76 | | |
| 1.21 | 0.12 | -1.15 | | |
| 1.18 | 3.94 | 2.71 | | |
| 1.06 | 1.2 | 0.12 | | |
| 1.01 | -0.07 | -1.08 | | |
| 2.35 | -2.35 | -4 | | |
| 1.87 | 0.09 | -1.23 | | |
| 1.65 | 0.48 | -0.66 | | |
| -3.4 | -2.92 | -1.57 | | |
| -3.77 | -4.71 | -3.22 | | |
| 1.65 | 1.53 | -0.12 | | |
| 1.37 | 0.64 | -0.73 | | |
| 1.21 | 2.17 | 0.97 | | |
| -3.93 | -0.27 | 0.78 | | |
| -3.97 | -4.32 | -3.26 | | |
| -4.18 | -2.27 | -1.14 | | |
| -5.88 | -0.22 | 1.41 | | |
| -5.89 | -1.1 | 0.54 | | |
| -6.12 | -2.59 | -0.9 | | |
| -6.25 | -1.2 | 0.52 | | |
| -6.7 | -3.02 | -1.2 | | |
| -8.58 | -3.41 | -1.24 | | |
| 2.58 | 1.73 | 0.08 | | |
| -5.71 | -4.39 | -2.15 | | |
| 1.71 | -1.65 | -3.3 | | |
| 1.6 | -0.42 | -1.97 | | |
| 1.42 | 3.74 | 2.36 | | |
| 1.29 | -1.49 | -2.73 | | |
| 2.25 | -0.81 | -2.45 | | |
| 1.78 | 0.68 | -0.63 | | |
| 1.62 | 0.01 | -1.16 | | |
| -2.85 | -0.14 | 0.9 | | |
| -3.39 | -2.17 | -0.89 | | |
| 1.7 | -1.75 | -3.39 | | |
| 1.57 | -1.78 | -3.3 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.21 | -5.06 | -6.21 | | |
| 1.8 | -2.72 | -4.36 | | |
| 1.22 | 1.41 | 0.34 | | |
| 1.2 | -1.04 | -2.09 | | |
| 4.47 | 0.77 | -0.87 | | |
| -1.4 | -0.4 | 0.6 | | |
| -1.67 | -2.24 | -0.98 | | |
| -1.9 | -1.52 | -0.08 | | |
| 27.07 | 1.37 | -0.27 | | |
| 17.65 | 0.96 | -0.07 | | |
| 4.25 | -2.26 | -1.23 | | |
| 4.23 | -1.66 | -0.62 | | |
| 3.68 | -1.94 | -0.71 | | |
| 3.1 | -2.68 | -1.19 | | |
| 2.94 | -2.06 | -0.5 | | |
| 1.78 | 2.3 | 4.59 | | |
| -1.07 | -2.01 | 1.2 | | |
| -1.29 | 0.24 | 3.72 | | |
| 1.88 | -1.04 | -2.68 | | |
| 1.48 | 0.52 | -0.78 | | |
| 1.22 | 1.16 | 0.13 | | |
| -3.76 | -1.08 | 0.1 | | |
| -3.81 | -0.56 | 0.64 | | |
| -5.12 | -1.48 | 0.14 | | |
| 1.78 | -2.65 | -4.29 | | |
| 1.39 | 2.26 | 0.98 | | |
| 1.32 | -1.82 | -3.03 | | |
| 1.28 | -3.67 | -4.83 | | |
| 1.23 | -2.53 | -3.64 | | |
| 1.17 | 2.63 | 1.6 | | |
| -3.57 | -2.46 | -1.43 | | |
| -4.65 | -2.6 | -1.19 | | |
| -5.11 | -2.41 | -0.87 | | |
| 2.73 | -2.64 | -4.28 | | |
| 2.36 | -1.64 | -3.07 | | |
| 8.43 | -0.06 | -1.7 | | |
| 1.25 | 2.48 | 3.6 | | |
| 1.12 | 0.6 | 1.88 | | |
| 1.09 | 0.73 | 2.04 | | |
| -1.26 | -0.79 | 0.98 | | |
| -1.59 | -3.64 | -1.54 | | |
| 1.28 | 0.99 | -0.65 | | |
| 1.13 | 1.07 | -0.39 | | |
| 1.02 | 1.33 | 0.02 | | |
| -1.04 | 2.61 | 1.39 | | |
| -1.09 | 0.88 | -0.28 | | |
| -1.1 | 2.14 | 0.99 | | |
| -4.9 | -1.04 | -0.03 | | |
| 3.33 | -0.96 | -2.6 | | |
| 2.85 | -2.09 | -3.5 | | |
| -1.87 | -2.97 | -1.98 | | |
| -1.87 | 3.95 | 4.95 | | |
| -1.95 | 2.86 | 3.92 | | |
| -1.97 | 1.29 | 2.36 | | |
| -1.97 | 3.21 | 4.28 | | |
| -2.01 | 0.29 | 1.39 | | |
| -2.01 | 2.81 | 3.92 | | |
| -2.01 | 1.25 | 2.35 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.06 | 2.35 | 3.48 | | |
| -2.06 | 3.11 | 4.24 | | |
| -2.23 | -2.62 | -1.36 | | |
| -2.5 | 1.05 | 2.47 | | |
| -2.74 | 1.99 | 3.53 | | |
| -2.78 | -0.81 | 0.76 | | |
| -3.34 | -0.76 | 1.08 | | |
| 21.71 | 1.66 | 0.02 | | |
| 19.5 | 2.57 | 1.09 | | |
| 16.93 | 2.8 | 1.52 | | |
| 16.14 | 2.96 | 1.75 | | |
| 3.43 | -1.74 | -0.71 | | |
| 1.58 | -2.7 | -0.55 | | |
| 1.5 | -3.69 | -1.47 | | |
| 1.49 | -2.02 | 0.21 | | |
| 1.36 | 1.16 | 3.53 | | |
| 1.32 | -1.95 | 0.46 | | |
| 1.31 | -0.4 | 2.02 | | |
| 1.31 | -2.56 | -0.14 | | |
| 1.21 | 1.67 | 4.2 | | |
| 1.15 | -2.79 | -0.2 | | |
| 1.13 | 0.31 | 2.93 | | |
| 1.1 | -3.01 | -0.35 | | |
| 1.09 | -2.99 | -0.32 | | |
| -1.45 | -2.96 | 0.37 | | |
| 2.25 | -5.38 | -7.02 | | |
| 1.56 | -2.55 | -3.66 | | |
| 1.49 | -6.46 | -7.5 | | |
| -2.81 | -7.23 | -6.2 | | |
| -3.58 | -4.84 | -3.47 | | |
| -4.26 | -7.13 | -5.51 | | |
| 3.57 | -2.61 | -4.25 | | |
| -2.12 | -5.48 | -4.19 | | |
| 3.96 | -5.15 | -6.79 | | |
| 2.63 | -2.4 | -3.44 | | |
| -3.01 | -7.8 | -5.86 | | |
| 2.56 | 2.65 | 1.02 | | |
| 1.95 | -2.91 | -4.16 | | |
| 1.65 | -3.2 | -4.2 | | |
| -2.52 | -1.9 | -0.84 | | |
| 2.06 | 2.23 | 0.59 | | |
| 1.82 | 3.23 | 1.77 | | |
| 1.64 | 2.59 | 1.28 | | |
| 1.61 | -0.28 | -1.56 | | |
| 1.6 | -0.56 | -1.83 | | |
| 1.51 | 1.78 | 0.59 | | |
| 1.51 | -0.94 | -2.13 | | |
| 1.51 | 0.78 | -0.42 | | |
| 1.45 | -0.63 | -1.77 | | |
| 1.42 | -1.03 | -2.13 | | |
| 1.4 | 2.5 | 1.43 | | |
| 1.39 | -0.37 | -1.44 | | |
| 1.38 | 1.99 | 0.94 | | |
| 1.33 | 0.27 | -0.74 | | |
| 1.32 | 1.25 | 0.25 | | |
| -3.44 | -2.37 | -1.18 | | |
| -3.59 | -1.72 | -0.47 | | |
| 1.59 | -0.05 | -1.69 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.21 | 5.24 | 3.99 | | |
| 2.75 | -1.5 | -3.13 | | |
| -2.28 | -1.79 | -0.77 | | |
| -2.28 | -2.46 | -1.45 | | |
| -2.34 | -0.54 | 0.51 | | |
| -2.36 | -2.29 | -1.22 | | |
| -2.37 | 2.13 | 3.21 | | |
| -2.7 | 0.13 | 1.38 | | |
| -3.14 | -3.59 | -2.12 | | |
| -3.32 | -0.73 | 0.83 | | |
| 1.78 | -3.05 | -4.68 | | |
| 1.38 | -0.85 | -2.12 | | |
| 1.36 | -3.29 | -4.54 | | |
| 1.36 | -1.17 | -2.42 | | |
| 1.23 | -4.1 | -5.2 | | |
| 1.2 | -0.28 | -1.34 | | |
| 1.16 | -1.74 | -2.75 | | |
| 1.16 | -4.18 | -5.19 | | |
| 2.7 | -1.97 | -3.6 | | |
| -2.93 | -3.11 | -1.76 | | |
| 2 | -0.3 | -1.93 | | |
| 1.31 | -1.91 | -2.93 | | |
| -3.26 | -1.41 | -0.34 | | |
| 2.4 | -2.47 | -4.11 | | |
| 1.77 | -3.8 | -4.99 | | |
| -3.8 | -5.06 | -3.51 | | |
| -3.8 | -5.06 | -3.51 | | |
| 1.2 | 0.91 | -0.72 | | |
| 1.08 | 2.3 | 0.82 | | |
| -1.2 | -2.01 | -3.12 | | |
| -1.27 | -1.24 | -2.26 | | |
| -5.82 | -1.35 | -0.19 | | |
| -5.85 | -1.38 | -0.2 | | |
| -5.98 | -2.53 | -1.32 | | |
| 3.1 | 2.05 | 0.42 | | |
| 2.86 | 2.23 | 0.72 | | |
| 2.69 | -0.92 | -2.35 | | |
| 2.54 | 3.61 | 2.27 | | |
| 2.49 | 1.47 | 0.15 | | |
| 2.31 | 0.6 | -0.61 | | |
| 2.27 | 0.67 | -0.51 | | |
| 2.23 | 1.66 | 0.5 | | |
| 2.19 | 1.37 | 0.23 | | |
| 2.19 | -1.94 | -3.08 | | |
| 2.18 | 1.56 | 0.43 | | |
| 2.04 | 1.76 | 0.73 | | |
| 2.03 | 4.57 | 3.55 | | |
| -2.03 | -1.9 | -0.87 | | |
| -2.18 | -0.13 | 1 | | |
| -2.18 | -2.92 | -1.79 | | |
| -2.36 | -2.06 | -0.82 | | |
| -2.42 | -0.18 | 1.1 | | |
| -2.45 | -4.44 | -3.16 | | |
| -2.51 | -2.47 | -1.15 | | |
| -2.94 | -1.79 | -0.23 | | |
| -3.2 | -1.51 | 0.17 | | |
| -3.34 | -5.04 | -3.31 | | |
| -4.32 | -2.89 | -0.78 | | |

| | | | | |
|--------|-------|-------|--|--|
| -4.64 | -0.27 | 1.95 | | |
| -6.36 | 1.45 | 4.12 | | |
| -7.38 | -0.49 | 2.39 | | |
| -22.64 | -0.13 | 4.37 | | |
| -24.52 | -1.83 | 2.78 | | |
| -36.64 | -2.93 | 2.26 | | |
| -80.94 | -2.35 | 3.98 | | |
| -269.6 | -5.17 | 2.91 | | |
| 2.89 | -2.58 | -4.21 | | |
| -2.2 | -1.31 | -0.27 | | |
| -3.29 | -5.22 | -3.6 | | |
| 2.01 | -0.05 | -1.68 | | |
| 1.49 | -1.71 | -2.91 | | |
| -4.21 | -1.64 | -0.2 | | |
| 2.4 | -2.47 | -4.11 | | |
| 1.77 | -3.8 | -4.99 | | |
| -3.8 | -5.06 | -3.51 | | |
| -3.8 | -5.06 | -3.51 | | |
| 2.4 | -2.47 | -4.11 | | |
| 1.77 | -3.8 | -4.99 | | |
| -3.8 | -5.06 | -3.51 | | |
| -3.8 | -5.06 | -3.51 | | |
| 2.4 | -2.47 | -4.11 | | |
| 1.77 | -3.8 | -4.99 | | |
| -3.8 | -5.06 | -3.51 | | |
| -3.8 | -5.06 | -3.51 | | |
| 2.4 | -2.47 | -4.11 | | |
| 1.77 | -3.8 | -4.99 | | |
| -3.8 | -5.06 | -3.51 | | |
| -3.8 | -5.06 | -3.51 | | |
| 2.4 | -2.47 | -4.11 | | |
| 1.77 | -3.8 | -4.99 | | |
| -3.8 | -5.06 | -3.51 | | |
| -3.8 | -5.06 | -3.51 | | |
| 1.23 | 3.04 | 1.41 | | |
| 1.01 | 2.8 | 1.44 | | |
| 1.01 | -0.74 | -2.09 | | |
| -1.06 | -3 | -4.25 | | |
| -1.22 | 2.14 | 1.09 | | |
| -1.25 | 1.59 | 0.58 | | |
| -6.12 | -2.12 | -0.84 | | |
| 2.93 | 1 | -0.62 | | |
| -2.32 | -1.88 | -0.74 | | |
| 2.36 | -0.69 | -2.31 | | |
| 1.63 | -0.54 | -1.64 | | |
| 1.59 | -0.35 | -1.41 | | |
| 1.58 | 2.39 | 1.34 | | |
| 2.73 | -3.86 | -5.49 | | |
| 2.26 | -1.51 | -2.86 | | |
| 1.81 | 0.99 | -0.64 | | |
| 1.52 | -5.62 | -6.99 | | |
| 1.4 | 1.52 | 0.25 | | |
| 1.4 | -1.07 | -2.33 | | |
| 1.4 | -0.37 | -1.62 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.36 | -0.62 | -1.85 | | |
| 1.34 | -2.33 | -3.54 | | |
| 1.27 | 0.22 | -0.9 | | |
| 1.24 | -3.63 | -4.72 | | |
| 1.22 | 1.24 | 0.17 | | |
| 1.21 | -2.11 | -3.16 | | |
| 2.02 | -1.95 | -3.58 | | |
| 1.39 | -2.64 | -3.73 | | |
| 1.38 | 1.05 | -0.03 | | |
| 1.36 | -5.07 | -6.12 | | |
| 1.33 | -0.06 | -1.08 | | |
| 1.63 | 2.77 | 1.15 | | |
| 1.36 | 4.08 | 2.72 | | |
| 1.34 | 2.62 | 1.27 | | |
| 1.09 | 4.04 | 3 | | |
| -5.92 | -1.42 | 0.22 | | |
| 1.91 | -3.34 | -4.97 | | |
| 1.73 | -1.37 | -2.86 | | |
| 1.49 | -3.52 | -4.79 | | |
| 2.66 | -3.15 | -4.77 | | |
| 1.87 | -3.53 | -4.66 | | |
| 1.82 | -0.03 | -1.65 | | |
| 1.43 | -2.8 | -4.08 | | |
| 1.42 | -1.4 | -2.67 | | |
| 1.26 | 0.48 | -0.61 | | |
| 1.21 | -2.75 | -3.78 | | |
| -3.55 | -2.69 | -1.62 | | |
| -3.65 | -3.72 | -2.61 | | |
| 1.91 | 3.25 | 1.62 | | |
| 1.53 | 2.13 | 0.83 | | |
| 1.41 | -1.38 | -2.57 | | |
| 1.39 | 2.13 | 0.96 | | |
| 1.37 | 0.59 | -0.56 | | |
| 1.29 | 1.53 | 0.47 | | |
| 1.26 | -1.73 | -2.75 | | |
| -3.56 | 0.57 | 1.71 | | |
| -3.83 | 0.04 | 1.28 | | |
| -4.1 | -0.18 | 1.17 | | |
| -4.65 | -0.86 | 0.67 | | |
| -7.4 | -1.3 | 0.89 | | |
| 1.23 | 2.92 | 1.29 | | |
| 1.02 | 3.52 | 2.16 | | |
| -1.06 | -1.59 | -2.84 | | |
| -1.06 | -3.12 | -4.36 | | |
| -1.22 | 2.02 | 0.97 | | |
| -1.25 | 1.47 | 0.46 | | |
| -6.12 | -2.24 | -0.96 | | |
| 1.81 | 0.99 | -0.64 | | |
| 1.52 | -5.62 | -6.99 | | |
| 1.4 | 1.52 | 0.25 | | |
| 1.4 | -1.07 | -2.33 | | |
| 1.4 | -0.37 | -1.62 | | |
| 1.36 | -0.62 | -1.85 | | |
| 1.34 | -2.33 | -3.54 | | |
| 1.27 | 0.22 | -0.9 | | |
| 1.22 | 1.24 | 0.17 | | |
| 1.21 | -2.11 | -3.16 | | |
| 1.81 | 0.99 | -0.64 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.52 | -5.62 | -6.99 | | |
| 1.4 | 1.52 | 0.25 | | |
| 1.4 | -1.07 | -2.33 | | |
| 1.4 | -0.37 | -1.62 | | |
| 1.36 | -0.62 | -1.85 | | |
| 1.34 | -2.33 | -3.54 | | |
| 1.28 | -4.54 | -5.67 | | |
| 1.27 | 0.22 | -0.9 | | |
| 1.22 | 1.24 | 0.17 | | |
| 1.21 | -2.11 | -3.16 | | |
| 1.72 | 3.78 | 2.15 | | |
| 1.39 | -2.27 | -3.59 | | |
| 1.31 | 1.21 | -0.02 | | |
| 1.21 | -1.51 | -2.62 | | |
| 1.18 | -1.44 | -2.53 | | |
| 1.15 | 0.33 | -0.71 | | |
| 1.14 | -0.6 | -1.63 | | |
| -3.59 | -1.35 | -0.35 | | |
| -4.01 | -0.89 | 0.26 | | |
| 1.88 | -4.73 | -6.35 | | |
| 1.4 | -0.24 | -1.44 | | |
| 1.34 | -5.09 | -6.22 | | |
| -3.72 | -3.27 | -2.08 | | |
| 2.46 | -1.32 | -2.95 | | |
| 2.4 | -0.57 | -2.16 | | |
| 1.63 | -1.16 | -2.19 | | |
| -2.7 | -5.43 | -4.32 | | |
| 1.45 | 5.1 | 3.48 | | |
| 1.27 | 0.06 | -1.38 | | |
| 1.04 | -1.95 | -3.09 | | |
| -1.79 | -2.42 | -4.04 | | |
| -2.71 | -1.54 | -2.56 | | |
| 2.02 | -2.31 | -3.93 | | |
| 1.38 | 0.69 | -0.38 | | |
| 1.36 | -5.42 | -6.47 | | |
| 1.33 | -0.41 | -1.43 | | |
| 5.07 | -0.73 | -2.36 | | |
| -1.23 | -0.27 | 0.75 | | |
| -1.44 | -1.81 | -0.56 | | |
| 2.13 | -0.69 | -2.31 | | |
| 1.55 | 1.13 | -0.03 | | |
| 1.46 | -1.29 | -2.36 | | |
| 4.26 | 1.22 | -0.41 | | |
| -1.46 | -1.8 | -0.79 | | |
| 10.56 | 1.24 | -0.38 | | |
| 1.2 | -1.13 | 0.38 | | |
| 1.12 | 0.01 | 1.62 | | |
| 2.73 | -0.03 | -1.66 | | |
| 2.26 | -0.94 | -2.29 | | |
| 2.19 | 2.67 | 1.36 | | |
| 1.88 | -0.3 | -1.39 | | |
| 1.88 | 0.22 | -0.87 | | |
| -2.97 | 3.27 | 4.66 | | |
| 2.58 | 0.14 | -1.47 | | |
| 2.45 | 0.3 | -1.24 | | |
| 1.95 | 0.69 | -0.53 | | |
| -2.61 | -0.61 | 0.52 | | |
| -2.96 | -1.58 | -0.27 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.05 | -1.62 | -0.26 | | |
| -3.1 | -1.22 | 0.16 | | |
| -4.03 | -1 | 0.76 | | |
| 1.95 | -0.87 | -2.49 | | |
| 1.9 | -2.49 | -4.07 | | |
| 1.3 | 0.18 | -0.85 | | |
| -4.59 | -2.04 | -0.5 | | |
| 1.59 | -0.06 | -1.68 | | |
| 1.21 | 5.22 | 4 | | |
| 2.32 | -2.35 | -3.97 | | |
| 1.54 | -0.77 | -1.79 | | |
| 1.52 | -2.72 | -3.73 | | |
| -2.79 | -1.93 | -0.86 | | |
| 1.9 | 2.4 | 0.78 | | |
| 1.31 | 1.97 | 0.89 | | |
| -3.42 | -0.43 | 0.65 | | |
| 2.65 | 4.83 | 3.22 | | |
| 2.16 | 4.62 | 3.29 | | |
| 2.04 | 2.07 | 0.46 | | |
| 1.77 | 1.21 | -0.2 | | |
| 1.35 | -1.29 | -2.31 | | |
| -3.02 | -0.78 | 0.23 | | |
| -3.24 | 1.22 | 2.33 | | |
| -3.45 | -0.97 | 0.23 | | |
| 4.57 | -0.01 | -1.62 | | |
| 3.21 | -0.15 | -1.25 | | |
| -1.42 | 1 | 2.08 | | |
| -1.64 | -3.36 | -2.07 | | |
| 2.06 | 1.07 | -0.55 | | |
| 1.35 | -0.41 | -1.42 | | |
| 1.13 | -0.08 | -1.69 | | |
| -1.01 | -4.14 | -5.56 | | |
| -1.04 | 0.83 | -0.55 | | |
| -1.23 | -3.7 | -4.85 | | |
| -1.29 | 2.49 | 1.42 | | |
| -1.33 | -1.49 | -2.53 | | |
| -5.59 | -0.31 | 0.73 | | |
| -7.08 | -2.23 | -0.85 | | |
| 15.6 | -1 | -2.61 | | |
| 10.9 | 1.39 | 0.29 | | |
| 2.31 | 2.14 | 3.28 | | |
| 1.06 | -4.04 | -1.77 | | |
| -1.16 | -0.82 | 1.73 | | |
| 1.59 | -0.06 | -1.68 | | |
| 1.21 | 5.22 | 4 | | |
| 1.59 | -0.06 | -1.68 | | |
| 1.21 | 5.22 | 4 | | |
| 1.59 | -0.06 | -1.68 | | |
| 1.21 | 5.22 | 4 | | |
| 1.59 | -0.06 | -1.68 | | |
| 1.21 | 5.22 | 4 | | |
| 1.59 | -0.06 | -1.68 | | |
| 1.21 | 5.22 | 4 | | |
| 3.13 | -2.42 | -4.04 | | |
| 2.47 | -0.9 | -2.17 | | |
| 2.26 | -3.42 | -4.56 | | |
| 2.17 | -2.93 | -4.01 | | |
| -2.04 | -2.19 | -1.13 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.03 | -3.65 | -2.59 | | |
| -2.17 | -2.55 | -1.41 | | |
| -2.23 | -3.42 | -2.23 | | |
| -2.28 | -2.49 | -1.27 | | |
| 4.65 | -2.17 | -3.78 | | |
| 4.06 | 0.91 | -0.51 | | |
| 3.78 | -0.5 | -1.82 | | |
| -1.41 | -3.23 | -2.14 | | |
| -1.59 | -2.31 | -1.04 | | |
| 2.79 | 1.89 | 0.27 | | |
| 2.45 | -3.09 | -4.52 | | |
| 2.24 | 0.94 | -0.36 | | |
| 2.17 | 1.93 | 0.68 | | |
| 2.15 | 4.71 | 3.47 | | |
| -2.27 | -2.16 | -1.12 | | |
| 2.12 | -1.13 | -2.74 | | |
| -2.9 | -1.02 | -0.01 | | |
| -3.34 | -2.55 | -1.34 | | |
| -3.51 | -1.12 | 0.16 | | |
| 1.75 | -5.32 | -6.94 | | |
| 1.48 | -4.9 | -6.27 | | |
| 1.16 | -3.15 | -4.16 | | |
| 2.18 | -0.56 | -2.17 | | |
| 1.68 | 0.68 | -0.56 | | |
| 1.53 | -2.47 | -3.57 | | |
| 1.43 | 1.86 | 0.86 | | |
| 2.04 | -2.28 | -3.9 | | |
| 1.69 | -1.85 | -3.19 | | |
| 1.39 | -1.63 | -2.69 | | |
| 1.36 | -0.34 | -1.37 | | |
| -4.92 | -3.59 | -1.88 | | |
| 1.84 | -4.1 | -5.71 | | |
| 1.77 | -4.22 | -5.78 | | |
| 1.76 | -4.21 | -5.76 | | |
| 1.63 | -2.81 | -4.25 | | |
| 1.5 | -2.52 | -3.84 | | |
| 1.32 | 1.25 | 0.12 | | |
| 1.28 | -2.05 | -3.14 | | |
| 1.2 | 1.92 | 0.92 | | |
| 4.03 | 0.57 | -1.05 | | |
| 3.89 | 2.05 | 0.48 | | |
| 3.52 | 0.9 | -0.52 | | |
| -1.56 | -1.36 | -0.32 | | |
| -1.9 | -1.26 | 0.06 | | |
| -1.95 | -1.71 | -0.35 | | |
| -2.21 | -0.42 | 1.12 | | |
| 1.27 | -2.99 | -4.6 | | |
| 1.25 | -2.34 | -3.92 | | |
| 1.12 | -0.48 | -1.91 | | |
| 1.01 | 1.2 | -0.08 | | |
| -1.03 | -0.38 | -1.61 | | |
| -1.13 | -2.45 | -3.53 | | |
| -5.76 | -2.92 | -1.66 | | |
| 5.29 | 0.25 | -1.36 | | |
| 3.46 | -1.02 | -2.02 | | |
| -1.16 | 2.31 | 3.31 | | |
| -1.27 | 3.28 | 4.42 | | |
| -1.49 | -2.65 | -1.29 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.67 | -3.67 | -1.47 | | |
| -2.77 | -0.05 | 2.21 | | |
| 3.06 | -4.98 | -6.59 | | |
| 2.63 | -0.48 | -1.87 | | |
| 2.18 | 0.58 | -0.54 | | |
| 2.24 | -3.82 | -5.43 | | |
| 2.07 | -4.57 | -6.07 | | |
| 1.85 | -3.19 | -4.54 | | |
| 1.58 | -3 | -4.12 | | |
| -3.72 | -7.27 | -5.83 | | |
| 2.24 | -3.82 | -5.43 | | |
| 2.07 | -4.57 | -6.07 | | |
| 1.85 | -3.19 | -4.54 | | |
| 1.58 | -3 | -4.12 | | |
| -3.72 | -7.27 | -5.83 | | |
| 2.24 | -3.82 | -5.43 | | |
| 2.07 | -4.57 | -6.07 | | |
| 1.85 | -3.19 | -4.54 | | |
| 1.58 | -3.21 | -4.32 | | |
| -3.72 | -7.27 | -5.83 | | |
| 2.24 | -3.82 | -5.43 | | |
| 2.07 | -4.57 | -6.07 | | |
| 1.85 | -3.19 | -4.54 | | |
| 1.58 | -3 | -4.12 | | |
| -3.72 | -7.27 | -5.83 | | |
| 2.24 | -3.82 | -5.43 | | |
| 2.07 | -4.57 | -6.07 | | |
| 1.85 | -3.19 | -4.54 | | |
| 1.58 | -3 | -4.12 | | |
| -3.72 | -7.27 | -5.83 | | |
| 1.73 | 0.12 | -1.49 | | |
| 1.51 | -0.84 | -2.25 | | |
| 1.14 | -0.3 | -1.3 | | |
| 1.14 | 4.6 | 3.6 | | |
| 13.68 | 0.2 | -1.41 | | |
| 12.63 | 1.8 | 0.3 | | |
| 10.54 | 1.65 | 0.42 | | |
| 9.12 | -0.1 | -1.13 | | |
| 2.22 | -2.31 | -1.3 | | |
| 2.2 | -0.51 | 0.52 | | |
| 2.15 | -0.23 | 0.83 | | |
| 1.96 | -3.17 | -1.98 | | |
| 1.85 | -1.62 | -0.34 | | |
| 1.78 | -0.17 | 1.16 | | |
| 1.63 | -2.57 | -1.11 | | |
| 1.5 | -3.02 | -1.44 | | |
| 1.41 | -3.33 | -1.65 | | |
| 1.33 | -1.01 | 0.74 | | |
| 1.29 | -1.36 | 0.43 | | |
| 1.22 | 1.18 | 3.07 | | |
| 1.08 | 7.29 | 9.35 | | |
| 1.06 | -3.21 | -1.12 | | |
| -1.26 | -2.69 | -0.19 | | |
| 1.91 | -0.6 | -2.21 | | |
| 1.79 | 2.37 | 0.85 | | |
| 1.52 | -0.29 | -1.57 | | |
| 1.49 | -0.51 | -1.76 | | |
| 1.45 | 0.62 | -0.59 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.42 | -2.81 | -3.99 | | |
| 1.4 | -0.72 | -1.89 | | |
| 1.36 | 2.79 | 1.66 | | |
| 1.35 | 4.91 | 3.79 | | |
| 1.32 | -2.94 | -4.02 | | |
| 1.28 | -2.16 | -3.19 | | |
| -3.22 | 1.51 | 2.52 | | |
| -3.46 | -1.07 | 0.05 | | |
| -3.51 | 1.22 | 2.35 | | |
| -3.97 | -0.51 | 0.8 | | |
| -4.39 | 0.04 | 1.5 | | |
| -4.77 | -1.86 | -0.28 | | |
| -4.78 | -1.57 | 0.01 | | |
| -5.72 | -0.17 | 1.67 | | |
| -8.56 | -1.81 | 0.61 | | |
| 1.78 | 3.23 | 1.62 | | |
| 1.27 | 1.89 | 0.77 | | |
| 1.25 | -2.04 | -3.14 | | |
| 1.19 | -2.04 | -3.07 | | |
| 1.32 | 0.02 | -1.59 | | |
| 1.16 | -2.17 | -3.59 | | |
| 1.01 | 3.03 | 1.8 | | |
| -1.14 | -2.33 | -3.34 | | |
| -4.94 | -0.33 | 0.77 | | |
| -4.97 | -2.22 | -1.11 | | |
| -5.9 | -2.42 | -1.07 | | |
| 2.21 | -1.3 | -2.91 | | |
| 1.65 | -2.78 | -3.97 | | |
| 1.55 | 0.05 | -1.04 | | |
| 2.64 | -1.04 | -2.65 | | |
| 2.52 | -1.74 | -3.28 | | |
| -2.91 | -4.39 | -3.06 | | |
| 1.36 | -2.71 | -4.32 | | |
| 1.35 | -0.63 | -2.23 | | |
| 1.17 | -1.89 | -3.29 | | |
| 1.14 | 2.32 | 0.96 | | |
| 1.13 | 2.02 | 0.67 | | |
| -1.03 | 1.72 | 0.6 | | |
| -1.07 | -0.3 | -1.37 | | |
| 6.18 | 0.19 | -1.42 | | |
| 5.37 | -0.19 | -1.6 | | |
| -1.09 | 6.42 | 7.56 | | |
| -1.17 | 2.47 | 3.72 | | |
| 1.97 | 2.75 | 1.15 | | |
| 1.85 | 1.53 | 0.01 | | |
| 1.44 | 2.23 | 1.07 | | |
| 1.41 | -0.37 | -1.49 | | |
| 1.33 | 3.32 | 2.28 | | |
| 1.33 | -1.77 | -2.8 | | |
| -3.78 | -1.49 | -0.2 | | |
| 9.75 | -0.29 | -1.89 | | |
| 7.64 | -0.14 | -1.4 | | |
| 6.87 | 0.05 | -1.05 | | |
| 1.57 | -0.58 | 0.44 | | |
| 1.48 | -2.61 | -1.49 | | |
| 1.36 | 0.4 | 1.64 | | |
| 1.33 | 1.06 | 2.32 | | |
| 1.32 | 3.77 | 5.04 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.03 | -1.23 | 0.41 | | |
| 1.03 | -2.19 | -0.55 | | |
| 1.03 | 5.6 | 7.24 | | |
| -1.17 | -3.25 | -1.34 | | |
| 2.62 | -0.92 | -2.53 | | |
| 1.99 | -0.47 | -1.68 | | |
| 1.78 | -1.68 | -2.74 | | |
| 1.95 | -1.32 | -2.93 | | |
| 1.67 | 1.21 | -0.18 | | |
| 1.6 | 1.31 | -0.01 | | |
| 1.49 | 7.27 | 6.05 | | |
| 1.31 | -0.55 | -1.59 | | |
| -4 | -1.72 | -0.37 | | |
| -4.41 | -1.57 | -0.07 | | |
| 2.24 | -3.69 | -5.3 | | |
| -3.72 | -7.15 | -5.7 | | |
| -4.93 | -5.89 | -4.04 | | |
| 4.85 | -2.75 | -4.35 | | |
| -1.51 | 0.14 | 1.41 | | |
| 2.09 | -1.45 | -3.05 | | |
| 1.57 | 0.69 | -0.5 | | |
| 2.58 | -0.8 | -2.41 | | |
| 1.8 | -3.04 | -4.13 | | |
| 1.71 | -0.79 | -1.8 | | |
| 7.17 | -4.26 | -5.86 | | |
| 1 | -1.18 | 0.06 | | |
| -1.01 | -4.62 | -3.37 | | |
| -1.3 | -1.89 | -0.27 | | |
| -1.42 | -0.71 | 1.03 | | |
| 7.09 | 1.82 | 0.22 | | |
| 6.27 | 1.03 | -0.4 | | |
| 5.31 | 1.55 | 0.37 | | |
| 5.06 | 1.17 | 0.05 | | |
| 4.83 | 1.7 | 0.65 | | |
| 4.75 | 0.84 | -0.19 | | |
| 1.15 | 0.66 | 1.68 | | |
| 1.14 | 0.32 | 1.35 | | |
| 1.12 | 3.41 | 4.46 | | |
| 1.11 | 4.38 | 5.44 | | |
| 1.1 | -0.8 | 0.28 | | |
| 1.08 | -2.03 | -0.92 | | |
| 1.05 | 0.06 | 1.21 | | |
| -1.02 | -1.93 | -0.68 | | |
| -1.02 | -2.2 | -0.94 | | |
| -1.03 | 1.6 | 2.87 | | |
| -1.07 | -1.22 | 0.1 | | |
| -1.07 | -1.82 | -0.5 | | |
| -1.12 | -0.87 | 0.51 | | |
| -1.21 | -1.2 | 0.29 | | |
| -1.24 | -2.03 | -0.5 | | |
| -2.09 | -1.55 | 0.74 | | |
| -4.42 | -1.47 | 1.9 | | |
| 3.8 | -1.04 | -2.65 | | |
| 2.65 | 0.25 | -0.84 | | |
| -1.78 | -4.82 | -3.67 | | |
| -2.21 | -3.88 | -2.42 | | |
| 1.93 | -2.82 | -4.42 | | |
| 1.92 | -2.75 | -4.34 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.72 | -2.98 | -4.42 | | |
| 1.7 | -3.4 | -4.82 | | |
| 1.29 | -4.68 | -5.7 | | |
| -3.31 | -8.03 | -6.96 | | |
| -6.46 | -8.09 | -6.06 | | |
| -30.79 | -7.79 | -3.5 | | |
| 1.89 | 0.76 | -0.84 | | |
| 1.79 | 1.25 | -0.27 | | |
| 1.55 | 0.81 | -0.5 | | |
| 1.5 | 3.34 | 2.07 | | |
| 1.5 | -0.51 | -1.77 | | |
| 1.27 | -0.49 | -1.51 | | |
| 1.37 | -0.13 | -1.73 | | |
| 1.31 | 4.49 | 2.96 | | |
| 1.3 | -0.36 | -1.88 | | |
| -1.02 | 8.42 | 7.3 | | |
| -1.06 | -0.62 | -1.68 | | |
| -1.08 | 3.26 | 2.23 | | |
| 1.25 | -0.87 | -2.47 | | |
| 1.13 | 2.91 | 1.46 | | |
| -1.12 | 1.06 | -0.05 | | |
| -5.34 | -0.63 | 0.51 | | |
| -5.49 | -1.43 | -0.25 | | |
| -6.58 | -0.36 | 1.08 | | |
| 1.69 | -1.38 | -2.98 | | |
| -3.84 | -1.38 | -0.29 | | |
| 2.25 | -4.03 | -5.63 | | |
| 1.56 | -2.27 | -3.34 | | |
| 1.51 | 0.14 | -0.88 | | |
| 1.75 | -1.85 | -3.45 | | |
| 1.63 | -2.86 | -4.36 | | |
| 1.5 | -0.42 | -1.8 | | |
| 1.36 | -3.05 | -4.28 | | |
| 1.31 | -2.6 | -3.78 | | |
| 1.26 | -3.71 | -4.84 | | |
| -5.8 | -0.76 | 0.98 | | |
| -16.09 | -3.7 | -0.49 | | |
| 3.06 | -1.61 | -3.21 | | |
| 2.29 | 1.04 | -0.14 | | |
| 2.07 | 0.09 | -0.94 | | |
| -2.03 | 0.09 | 1.12 | | |
| -2.25 | -4.6 | -3.42 | | |
| 1.39 | -0.12 | -1.72 | | |
| 1.34 | 1.25 | -0.3 | | |
| 1.22 | 0.72 | -0.68 | | |
| 1.21 | 3.42 | 2.03 | | |
| 1.07 | 0.8 | -0.41 | | |
| 1.03 | -3.95 | -5.12 | | |
| -21.11 | -3.4 | -0.12 | | |
| 1.47 | 1.13 | -0.47 | | |
| 1.25 | -0.85 | -2.21 | | |
| 1.18 | -0.44 | -1.72 | | |
| 1.11 | 0.79 | -0.41 | | |
| 1.07 | 1.21 | 0.08 | | |
| 1.06 | 0.85 | -0.28 | | |
| -4.2 | -0.61 | 0.42 | | |
| -4.74 | 0.31 | 1.52 | | |
| 30.41 | 0.03 | -1.57 | | |

| | | | | |
|-------|-------|-------|--|--|
| 26.07 | -0.42 | -1.79 | | |
| 24.38 | -1.94 | -3.22 | | |
| 23.75 | -2.29 | -3.53 | | |
| 20.78 | -1.38 | -2.43 | | |
| 4.12 | -2.21 | -0.92 | | |
| 3.65 | 1.11 | 2.56 | | |
| 3.31 | 1.18 | 2.79 | | |
| 3.22 | 0.41 | 2.05 | | |
| 2.45 | 1.79 | 3.83 | | |
| 2.23 | -1.59 | 0.58 | | |
| 2.2 | -1.94 | 0.25 | | |
| 1.34 | -2.32 | 0.58 | | |
| 1.23 | -5.74 | -2.71 | | |
| 1.01 | -3.53 | -0.21 | | |
| -1.11 | 1.06 | 4.53 | | |
| 1.76 | -1.54 | -3.14 | | |
| 1.54 | -7.1 | -8.5 | | |
| 1.36 | -3.62 | -4.85 | | |
| 1.34 | -2.71 | -3.93 | | |
| 1.33 | -2.39 | -3.6 | | |
| 1.27 | -3.48 | -4.61 | | |
| 1.25 | -3.07 | -4.17 | | |
| 1.23 | 0.05 | -1.03 | | |
| -6.16 | -3.29 | -1.45 | | |
| -7.54 | -7.29 | -5.17 | | |
| -7.85 | -4.3 | -2.11 | | |
| 1.47 | -4.38 | -5.98 | | |
| 1.24 | -1.28 | -2.63 | | |
| 1.11 | -4.74 | -5.93 | | |
| 1.01 | -5.11 | -6.16 | | |
| -4.87 | -2.82 | -1.57 | | |
| -5.42 | -1.32 | 0.08 | | |
| -6.03 | -2.44 | -0.89 | | |
| 2.46 | 0.39 | -1.2 | | |
| 1.81 | 2.5 | 1.34 | | |
| -2.58 | -1.13 | -0.06 | | |
| -2.68 | -0.25 | 0.87 | | |
| -2.91 | -0.58 | 0.66 | | |
| -3.13 | -0.19 | 1.16 | | |
| 4.58 | -4.47 | -6.07 | | |
| -1.34 | -3.44 | -2.42 | | |
| -1.41 | -2.58 | -1.49 | | |
| -1.68 | -5.61 | -4.27 | | |
| 2.35 | -4.2 | -5.8 | | |
| 1.7 | -4.14 | -5.28 | | |
| 6.96 | -0.68 | -2.28 | | |
| -1.01 | -0.45 | 0.77 | | |
| -1.02 | -2.02 | -0.78 | | |
| -1.07 | 2.48 | 3.78 | | |
| -1.21 | -2.43 | -0.96 | | |
| -1.31 | -5.01 | -3.42 | | |
| -1.97 | -3.72 | -1.54 | | |
| 3.55 | -1.44 | -3.04 | | |
| -1.95 | -3.47 | -2.28 | | |
| -2.5 | -3.37 | -1.82 | | |
| -2.74 | -1.94 | -0.26 | | |
| 3.38 | -0.97 | -2.57 | | |
| -2.02 | -1.28 | -0.11 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.09 | -3.68 | -2.47 | | |
| -2.33 | -1.89 | -0.51 | | |
| -2.53 | -1.96 | -0.46 | | |
| -3.26 | -3.5 | -1.64 | | |
| 21.22 | 1.67 | 0.07 | | |
| 17.78 | 2.25 | 0.91 | | |
| 2.57 | -1.51 | -0.06 | | |
| 2.31 | -2.56 | -0.96 | | |
| 2.16 | -5.49 | -3.79 | | |
| 1.76 | -0.51 | 1.48 | | |
| 1.47 | -4.6 | -2.35 | | |
| 1.09 | 0.56 | 3.24 | | |
| -1.06 | -5.88 | -2.99 | | |
| -1.08 | -5.87 | -2.95 | | |
| -1.31 | -6.18 | -2.99 | | |
| -1.57 | -5.43 | -1.98 | | |
| 2.59 | 1.96 | 0.36 | | |
| 2.23 | 6.14 | 4.75 | | |
| 2.12 | 2.65 | 1.33 | | |
| 1.77 | 1.65 | 0.6 | | |
| 3.32 | -5.53 | -7.12 | | |
| 2.83 | -2.85 | -4.21 | | |
| 2.44 | -3.52 | -4.67 | | |
| -1.91 | -1.89 | -0.82 | | |
| -2.52 | -5.38 | -3.91 | | |
| 1.32 | 3.07 | 1.48 | | |
| 1.23 | 0.48 | -1.01 | | |
| 1.2 | 4.25 | 2.79 | | |
| 1.12 | 0.1 | -1.26 | | |
| 1.11 | 0.02 | -1.32 | | |
| 1.1 | 3.14 | 1.81 | | |
| 1.06 | 2.4 | 1.12 | | |
| 1.06 | -0.75 | -2.04 | | |
| -1 | 1.36 | 0.18 | | |
| -1.07 | 4.97 | 3.87 | | |
| -1.07 | 4.66 | 3.57 | | |
| -1.08 | 2.66 | 1.58 | | |
| -1.09 | -0.48 | -1.55 | | |
| -1.12 | 2.44 | 1.41 | | |
| -1.13 | -1.82 | -2.84 | | |
| -5.17 | -1.05 | 0.13 | | |
| -7.98 | -1.2 | 0.6 | | |
| 2.99 | -2.2 | -3.8 | | |
| 2.21 | -0.23 | -1.38 | | |
| -2.38 | -2.46 | -1.23 | | |
| -2.65 | -5.51 | -4.11 | | |
| 1.65 | -2.18 | -3.78 | | |
| 1.38 | -1.41 | -2.74 | | |
| 1.22 | -2.07 | -3.23 | | |
| 1.16 | -6.33 | -7.42 | | |
| 2.17 | -4.68 | -6.28 | | |
| 2.03 | -4.42 | -5.92 | | |
| 1.46 | -3.22 | -4.24 | | |
| 3.28 | -1.92 | -3.51 | | |
| -2.01 | -2.83 | -1.7 | | |
| 1.2 | -3.09 | -4.68 | | |
| 1.11 | -0.65 | -2.13 | | |
| -1.1 | -2.47 | -3.65 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.11 | 1.34 | 0.17 | | |
| -1.15 | -1.13 | -2.26 | | |
| -1.18 | -4.23 | -5.33 | | |
| 1 | -0.71 | -2.3 | | |
| -1.08 | 0.52 | -0.96 | | |
| -1.11 | 0.06 | -1.38 | | |
| -1.44 | 0.68 | -0.38 | | |
| -8.14 | -0.31 | 1.13 | | |
| 2.52 | -3.31 | -4.9 | | |
| 1.72 | -0.52 | -1.56 | | |
| -2.5 | -3.25 | -2.19 | | |
| 13.94 | 1.12 | -0.47 | | |
| 2.12 | -1.38 | -0.25 | | |
| 2.04 | -2 | -0.82 | | |
| 1.96 | -5.08 | -3.84 | | |
| 1.8 | -2.11 | -0.74 | | |
| 1.74 | -5.11 | -3.7 | | |
| 1.64 | -3.8 | -2.3 | | |
| 1.62 | -4.1 | -2.58 | | |
| 1.54 | -2.5 | -0.91 | | |
| 1.49 | -0.53 | 1.1 | | |
| 1.43 | -2.97 | -1.27 | | |
| 1.37 | -2.31 | -0.55 | | |
| 1.34 | -2.35 | -0.56 | | |
| 1.25 | -5.04 | -3.15 | | |
| 1.18 | -4.18 | -2.21 | | |
| 1.17 | -5.49 | -3.5 | | |
| 1.14 | -4.76 | -2.74 | | |
| 1.03 | -1.26 | 0.92 | | |
| -1.2 | -4.98 | -2.51 | | |
| -1.43 | -5.9 | -3.17 | | |
| -1.44 | -4.81 | -2.07 | | |
| 1.14 | -5.27 | -6.86 | | |
| 1.1 | -4.65 | -6.18 | | |
| -1 | -2.15 | -3.54 | | |
| -1.05 | -4.28 | -5.6 | | |
| -1.13 | -5.48 | -6.7 | | |
| -1.14 | -3.5 | -4.71 | | |
| -1.2 | -3.41 | -4.55 | | |
| -1.2 | -4.55 | -5.68 | | |
| -1.24 | -4.48 | -5.57 | | |
| -1.29 | -5.2 | -6.23 | | |
| -6.02 | -5.37 | -4.18 | | |
| -10.06 | -7.12 | -5.19 | | |
| -11.46 | -3.24 | -1.11 | | |
| 2.49 | -0.56 | -2.15 | | |
| 1.71 | -0.54 | -1.59 | | |
| -3.43 | -2.85 | -1.35 | | |
| 2.19 | 2.74 | 1.15 | | |
| 2.05 | 2.98 | 1.48 | | |
| -3.12 | -0.57 | 0.61 | | |
| -4.66 | -0.73 | 1.03 | | |
| 1.09 | -4.4 | -5.99 | | |
| 1.09 | -3.66 | -5.24 | | |
| 1.08 | -3.93 | -5.51 | | |
| 1.06 | -5.83 | -7.37 | | |
| 1.02 | -5.11 | -6.6 | | |
| -1.02 | -5.84 | -7.27 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.07 | -2.15 | -3.51 | | |
| -1.22 | -0.28 | -1.46 | | |
| -1.25 | -2.94 | -4.09 | | |
| -1.25 | -6.21 | -7.35 | | |
| -1.27 | -6.67 | -7.78 | | |
| -5.65 | -4.82 | -3.78 | | |
| -6.33 | -5.13 | -3.93 | | |
| 1.21 | -0.45 | -2.04 | | |
| 1.18 | -1.18 | -2.73 | | |
| 1.17 | -3.5 | -5.04 | | |
| 1.11 | 1.6 | 0.14 | | |
| -1.07 | -1.93 | -3.16 | | |
| -1.18 | -0.51 | -1.59 | | |
| -1.19 | -2.38 | -3.44 | | |
| -1.19 | -1.73 | -2.79 | | |
| 1.91 | -1.32 | -2.92 | | |
| 1.53 | 2.65 | 1.37 | | |
| 1.49 | 1.73 | 0.49 | | |
| 1.49 | 2.02 | 0.78 | | |
| 1.4 | 4.4 | 3.25 | | |
| -3.22 | -3.44 | -2.41 | | |
| 2.14 | -1.12 | -2.71 | | |
| 1.85 | -1.43 | -2.81 | | |
| 1.51 | -0.01 | -1.1 | | |
| -2.82 | 1.19 | 2.2 | | |
| -3.87 | -2.22 | -0.76 | | |
| -3.92 | -2.06 | -0.58 | | |
| -5.6 | -0.99 | 1 | | |
| 2.71 | 0.39 | -1.2 | | |
| 2.15 | 0.06 | -1.2 | | |
| -2.38 | -0.79 | 0.31 | | |
| 1.27 | 0.46 | -1.13 | | |
| 1.06 | 0.22 | -1.11 | | |
| -1.16 | -4.72 | -5.75 | | |
| -5.89 | -6.25 | -4.94 | | |
| 1.47 | -4.04 | -5.62 | | |
| 1.14 | -0.82 | -2.03 | | |
| 1.11 | -0.62 | -1.8 | | |
| 1.11 | -4.4 | -5.58 | | |
| 1.06 | -1.42 | -2.53 | | |
| 1.02 | -3.32 | -4.37 | | |
| 2.77 | 4.58 | 2.99 | | |
| 2.19 | 3.46 | 2.21 | | |
| -3.42 | -2.37 | -0.71 | | |
| 2.24 | -3.85 | -5.44 | | |
| 2.07 | -4.6 | -6.08 | | |
| 1.58 | -3.04 | -4.13 | | |
| -3.72 | -7.31 | -5.84 | | |
| -4.93 | -6.05 | -4.18 | | |
| 1.84 | -2.87 | -4.45 | | |
| 1.57 | -4.63 | -5.98 | | |
| 2.9 | -2.1 | -3.68 | | |
| -2.13 | -1.43 | -0.38 | | |
| -2.3 | -0.89 | 0.27 | | |
| 1.6 | -1.7 | -3.28 | | |
| 1.57 | -1.62 | -3.19 | | |
| 1.4 | 1.34 | -0.05 | | |
| 1.32 | 0.61 | -0.7 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.27 | -1.39 | -2.64 | | |
| 1.15 | -0.08 | -1.2 | | |
| 1.09 | -3.55 | -4.59 | | |
| 1.07 | 0.17 | -0.84 | | |
| 2.39 | 0.11 | -1.47 | | |
| -2.55 | -1.75 | -0.73 | | |
| -3.63 | -2.28 | -0.75 | | |
| -3.75 | -2.89 | -1.31 | | |
| 3.41 | -2.46 | -4.05 | | |
| -2.23 | -3.44 | -2.09 | | |
| -2.59 | -5.25 | -3.69 | | |
| -3.29 | -3.74 | -1.84 | | |
| 1.6 | 3.07 | 1.48 | | |
| 1.19 | 1.46 | 0.3 | | |
| 2.08 | -1.2 | -2.78 | | |
| 1.47 | -0.2 | -1.28 | | |
| 7.6 | -0.81 | -2.4 | | |
| 5.75 | -0.02 | -1.2 | | |
| 5.12 | -0.42 | -1.44 | | |
| 1.19 | 0.06 | 1.15 | | |
| -1.53 | 1.74 | 3.69 | | |
| 1.88 | -2.84 | -4.42 | | |
| 1.74 | 0.82 | -0.65 | | |
| 1.5 | 1.07 | -0.18 | | |
| 1.38 | -1.6 | -2.75 | | |
| -4.45 | -2 | -0.52 | | |
| 5.33 | -0.04 | -1.63 | | |
| 5.05 | 0.65 | -0.86 | | |
| 4.62 | -0.04 | -1.42 | | |
| 3.77 | -0.07 | -1.16 | | |
| 2.85 | -0.1 | -1.69 | | |
| 2.31 | 4.17 | 2.89 | | |
| -2.22 | -0.25 | 0.82 | | |
| -2.49 | -0.5 | 0.74 | | |
| -3.46 | -0.94 | 0.77 | | |
| 10.19 | 0.22 | -1.36 | | |
| 8.69 | -1.59 | -2.95 | | |
| 7.07 | 0.53 | -0.53 | | |
| 1.27 | 0.36 | 1.78 | | |
| -1.03 | 3.3 | 5.1 | | |
| 2.1 | 3.57 | 1.99 | | |
| 2.04 | 3.93 | 2.39 | | |
| 2.03 | 2.4 | 0.87 | | |
| 1.97 | 3.01 | 1.52 | | |
| 1.94 | 3.32 | 1.85 | | |
| 1.91 | 2.02 | 0.58 | | |
| 1.87 | 2.22 | 0.8 | | |
| 1.8 | 1.83 | 0.48 | | |
| 1.78 | 1.88 | 0.53 | | |
| 1.75 | 1.79 | 0.47 | | |
| 1.75 | 4.73 | 3.41 | | |
| 1.73 | 5.04 | 3.74 | | |
| 1.73 | 4.18 | 2.88 | | |
| 1.64 | -1.92 | -3.15 | | |
| 1.61 | 4.44 | 3.24 | | |
| 1.56 | 3.43 | 2.28 | | |
| 1.52 | 2.24 | 1.13 | | |
| 1.52 | 2.65 | 1.54 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.86 | -1.81 | -0.8 | | |
| -3.76 | -1.76 | -0.35 | | |
| 1.66 | -0.7 | -2.28 | | |
| 1.51 | -0.33 | -1.77 | | |
| 1.2 | 0.7 | -0.41 | | |
| -3.87 | -3.62 | -2.51 | | |
| -4.73 | -3.09 | -1.69 | | |
| -4.81 | -0.17 | 1.25 | | |
| 2.26 | -2.39 | -3.97 | | |
| 1.89 | 0.37 | -0.95 | | |
| 1.78 | 0.96 | -0.29 | | |
| 1.72 | -2.7 | -3.89 | | |
| 1.65 | -1.88 | -3.01 | | |
| 1.52 | -1.44 | -2.45 | | |
| 2.39 | -0.69 | -2.27 | | |
| 2.03 | -0.12 | -1.47 | | |
| 1.64 | 2.89 | 1.85 | | |
| -2.97 | -1.19 | 0.06 | | |
| -3.46 | -2.01 | -0.54 | | |
| -3.71 | -1.87 | -0.3 | | |
| -4.53 | -1.07 | 0.78 | | |
| 1.94 | 1.44 | -0.13 | | |
| 1.71 | 1.56 | 0.16 | | |
| 1.45 | 1.25 | 0.09 | | |
| 1.35 | -1.95 | -3 | | |
| 1.32 | -1.46 | -2.48 | | |
| 1.31 | 0.91 | -0.1 | | |
| 2.96 | -6.34 | -7.92 | | |
| -4.83 | -7.27 | -5.01 | | |
| 5.33 | -0.08 | -1.66 | | |
| 3.8 | -0.21 | -1.3 | | |
| 3.6 | 1.93 | 0.91 | | |
| -1.14 | 0.81 | 1.83 | | |
| -1.27 | -0.32 | 0.86 | | |
| -1.51 | -2.48 | -1.05 | | |
| -1.85 | -3.11 | -1.39 | | |
| 1.65 | 0.46 | -1.11 | | |
| 1.46 | 0.97 | -0.44 | | |
| 1.22 | -1.12 | -2.27 | | |
| 1.19 | 3.08 | 1.97 | | |
| 1.18 | 0.59 | -0.5 | | |
| -3.76 | 0.22 | 1.27 | | |
| -3.94 | -0.91 | 0.22 | | |
| 2.95 | -3.19 | -4.77 | | |
| 2.69 | -5.09 | -6.54 | | |
| 2.03 | -2.93 | -4.51 | | |
| 1.77 | -3.52 | -4.9 | | |
| 1.61 | -1.22 | -2.47 | | |
| 1.53 | -0.91 | -2.09 | | |
| -2.98 | -2.37 | -1.35 | | |
| -3.02 | -3.12 | -2.09 | | |
| 2.3 | -0.64 | -2.21 | | |
| 1.72 | -4.65 | -5.81 | | |
| 2.2 | -2.56 | -4.14 | | |
| 2 | -2.63 | -4.08 | | |
| 1.99 | -0.82 | -2.26 | | |
| 1.78 | -2.03 | -3.31 | | |
| 1.65 | 0.29 | -0.88 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.58 | -1.74 | -2.85 | | |
| 1.48 | 2.32 | 1.31 | | |
| -3.49 | -1.67 | -0.31 | | |
| 1.64 | 4.55 | 2.98 | | |
| 1.51 | -0.85 | -2.31 | | |
| 1.46 | -0.67 | -2.08 | | |
| 1.44 | -1.19 | -2.58 | | |
| 1.32 | 1.19 | -0.08 | | |
| 1.31 | 1.35 | 0.1 | | |
| 1.2 | 2.1 | 0.97 | | |
| 1.14 | 1.3 | 0.25 | | |
| -4.1 | 3.09 | 4.26 | | |
| 1.81 | 0.94 | -0.64 | | |
| 1.52 | -5.66 | -6.99 | | |
| 1.4 | 1.45 | 0.24 | | |
| 1.4 | -1.12 | -2.33 | | |
| 1.4 | -0.42 | -1.62 | | |
| 1.36 | -0.67 | -1.85 | | |
| 1.34 | -2.38 | -3.54 | | |
| 1.28 | -4.59 | -5.66 | | |
| 1.27 | 0.17 | -0.9 | | |
| 1.22 | 1.19 | 0.18 | | |
| 1.21 | -2.15 | -3.16 | | |
| 1.81 | 0.94 | -0.64 | | |
| 1.52 | -5.66 | -6.99 | | |
| 1.4 | 1.47 | 0.26 | | |
| 1.4 | -1.12 | -2.33 | | |
| 1.4 | -0.42 | -1.62 | | |
| 1.36 | -0.67 | -1.85 | | |
| 1.34 | -2.38 | -3.54 | | |
| 1.27 | 0.17 | -0.9 | | |
| 1.22 | 1.19 | 0.18 | | |
| 1.21 | -2.15 | -3.16 | | |
| 1.81 | 0.94 | -0.64 | | |
| 1.52 | -5.66 | -6.99 | | |
| 1.4 | 1.47 | 0.26 | | |
| 1.4 | -1.12 | -2.33 | | |
| 1.4 | -0.42 | -1.62 | | |
| 1.36 | -0.67 | -1.85 | | |
| 1.34 | -2.38 | -3.54 | | |
| 1.27 | 0.17 | -0.9 | | |
| 1.22 | 1.19 | 0.18 | | |
| 1.21 | -2.15 | -3.16 | | |
| 1.81 | 0.94 | -0.64 | | |
| 1.52 | -5.66 | -6.99 | | |
| 1.4 | 1.45 | 0.24 | | |
| 1.4 | -1.12 | -2.33 | | |
| 1.4 | -0.42 | -1.62 | | |
| 1.36 | -0.67 | -1.85 | | |
| 1.34 | -2.38 | -3.54 | | |
| 1.28 | -4.59 | -5.66 | | |
| 1.27 | 0.17 | -0.9 | | |
| 1.22 | 1.19 | 0.18 | | |
| 1.21 | -2.15 | -3.16 | | |
| 3.55 | -1.5 | -3.08 | | |
| 3.4 | -1.38 | -2.9 | | |
| 2.77 | 0.37 | -0.85 | | |
| 2.75 | 6.07 | 4.87 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.83 | -2.2 | -1.08 | | |
| -1.93 | -2.59 | -1.39 | | |
| 2.29 | -4.94 | -6.51 | | |
| 1.68 | -3.86 | -4.99 | | |
| 3.7 | -0.54 | -2.12 | | |
| 2.81 | -1.25 | -2.43 | | |
| 2.7 | -0.48 | -1.6 | | |
| 2.65 | -2.61 | -3.71 | | |
| 2.54 | -3.74 | -4.76 | | |
| -1.62 | -4.42 | -3.41 | | |
| -1.64 | -4.67 | -3.64 | | |
| -1.74 | -4.5 | -3.38 | | |
| -2.07 | -3.79 | -2.43 | | |
| -2.77 | -4.15 | -2.37 | | |
| 2.6 | 2.89 | 1.32 | | |
| 2.33 | -1.25 | -2.67 | | |
| -2.5 | -2.71 | -1.59 | | |
| -2.72 | -3.12 | -1.88 | | |
| 2.66 | -3.86 | -5.43 | | |
| 2.61 | -4.27 | -5.82 | | |
| 2.61 | -4.99 | -6.54 | | |
| 2.44 | -0.34 | -1.79 | | |
| 2.23 | -3.14 | -4.46 | | |
| 2.01 | -4.07 | -5.24 | | |
| -2.26 | -3.65 | -2.65 | | |
| 1.5 | 1.25 | -0.33 | | |
| 1.06 | -0.07 | -1.15 | | |
| -6.41 | -5.38 | -3.69 | | |
| 2.24 | -3.7 | -5.28 | | |
| 2.07 | -4.45 | -5.92 | | |
| 1.84 | -5.49 | -6.78 | | |
| 1.58 | -2.89 | -3.96 | | |
| 1.54 | -2.64 | -3.68 | | |
| -2.71 | -7.28 | -6.25 | | |
| -4.93 | -5.9 | -4.02 | | |
| -5.44 | -7.52 | -5.5 | | |
| 2.43 | 2.42 | 0.85 | | |
| 1.91 | 3.97 | 2.75 | | |
| 1.88 | -1.84 | -3.05 | | |
| -2.92 | -2.29 | -1.03 | | |
| 2.14 | 0.11 | -1.46 | | |
| 1.51 | 0.18 | -0.89 | | |
| 1.45 | 2.69 | 1.68 | | |
| -4.15 | -4.11 | -2.54 | | |
| 1.29 | 0.19 | -1.39 | | |
| 1.26 | 2.59 | 1.06 | | |
| 1.08 | -0.38 | -1.7 | | |
| 1.03 | 6.38 | 5.13 | | |
| -1.1 | 6.17 | 5.09 | | |
| -5.24 | 0.08 | 1.26 | | |
| -11.72 | -1.07 | 1.28 | | |
| 2.3 | -2.7 | -4.28 | | |
| 1.89 | -3.96 | -5.25 | | |
| 1.57 | -2.08 | -3.1 | | |
| 1.55 | -4.96 | -5.97 | | |
| -2.61 | -5.43 | -4.42 | | |
| -2.73 | -3.52 | -2.45 | | |
| 3.14 | 1.05 | -0.53 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.9 | 5.27 | 3.81 | | |
| 2.82 | 0.63 | -0.79 | | |
| 2.34 | 2.3 | 1.14 | | |
| 1.33 | -3.96 | -5.54 | | |
| 1.24 | -3.26 | -4.74 | | |
| 1.18 | -0.04 | -1.44 | | |
| 1.08 | -1.49 | -2.77 | | |
| 1.03 | -1.05 | -2.26 | | |
| -1.01 | -2.34 | -3.48 | | |
| -1.03 | -2.26 | -3.38 | | |
| -1.08 | -1.27 | -2.32 | | |
| -1.1 | -3.22 | -4.24 | | |
| -1.11 | -3.41 | -4.43 | | |
| 5.56 | 0.14 | -1.43 | | |
| -1.11 | 3.5 | 4.55 | | |
| 2.37 | -6.19 | -7.76 | | |
| 1.8 | -5.71 | -6.88 | | |
| 1.68 | -3.68 | -4.75 | | |
| -2.95 | -7.36 | -6.12 | | |
| -3.16 | -7.52 | -6.19 | | |
| 1.56 | -0.19 | -1.76 | | |
| 1.55 | -4.64 | -6.2 | | |
| -7.19 | -7.15 | -5.24 | | |
| 1.46 | 4.05 | 2.48 | | |
| 1.13 | 0.43 | -0.77 | | |
| 1.1 | 0.06 | -1.1 | | |
| 1.11 | -2.41 | -3.58 | | |
| -1.01 | -2.87 | -3.88 | | |
| -5.27 | -1.13 | 0.25 | | |
| 1.7 | -0.67 | -2.24 | | |
| 1.53 | -2.84 | -4.26 | | |
| 1.18 | -2.74 | -3.78 | | |
| -4.06 | -2.89 | -1.67 | | |
| 2.2 | 0.32 | -1.25 | | |
| 1.5 | 1.19 | 0.17 | | |
| -2.7 | -2.72 | -1.72 | | |
| -3.73 | -1.33 | 0.14 | | |
| -3.78 | -1.02 | 0.46 | | |
| -3.98 | -1.73 | -0.17 | | |
| 13.25 | -0.57 | -2.14 | | |
| 12.49 | 1.8 | 0.32 | | |
| 10.04 | 0.37 | -0.8 | | |
| 2.23 | -0.04 | 0.96 | | |
| 2.14 | -3.07 | -2.01 | | |
| 2.1 | 1.12 | 2.21 | | |
| 2.07 | -0.31 | 0.8 | | |
| 2 | -1.22 | -0.06 | | |
| 1.96 | -3.9 | -2.71 | | |
| 1.93 | 1.1 | 2.31 | | |
| 1.76 | -3.04 | -1.7 | | |
| 1.63 | 0.45 | 1.91 | | |
| 1.6 | -0.71 | 0.77 | | |
| 1.56 | -3.43 | -1.91 | | |
| 1.56 | -0.4 | 1.12 | | |
| 1.49 | -3.58 | -2 | | |
| 1.46 | -2.31 | -0.7 | | |
| 1.44 | 0.43 | 2.06 | | |
| 1.27 | -4.65 | -2.84 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.25 | -4.22 | -2.39 | | |
| -1.25 | -2.78 | -0.29 | | |
| -1.52 | -5.1 | -2.34 | | |
| 5.61 | 0.02 | -1.55 | | |
| 3.99 | -0.37 | -1.45 | | |
| -1.14 | 0.67 | 1.78 | | |
| -1.21 | -1.48 | -0.28 | | |
| -1.35 | -1.5 | -0.16 | | |
| -1.72 | 3.81 | 5.51 | | |
| 2.71 | -3.62 | -5.19 | | |
| 2.68 | -0.69 | -2.25 | | |
| 2.58 | -3.51 | -5.01 | | |
| 1.96 | -0.98 | -2.08 | | |
| -2.43 | -3.11 | -1.96 | | |
| 1.33 | -0.61 | -2.18 | | |
| 1.21 | 0.04 | -1.39 | | |
| 1.18 | -1.37 | -2.76 | | |
| 1.09 | 2.06 | 0.78 | | |
| 1.08 | 0.64 | -0.63 | | |
| 1.05 | 0.45 | -0.78 | | |
| -1.02 | -1.09 | -2.22 | | |
| -1.07 | -0.4 | -1.45 | | |
| -6.09 | -1.62 | -0.16 | | |
| -8.23 | -0.78 | 1.11 | | |
| -9.1 | -2.44 | -0.41 | | |
| 1.53 | 3.32 | 1.75 | | |
| 1.25 | 0.6 | -0.67 | | |
| 1.16 | -0.25 | -1.41 | | |
| -4.25 | -2.78 | -1.64 | | |
| 1.39 | -4.98 | -6.55 | | |
| -1.03 | -5.92 | -6.97 | | |
| -4.43 | -3.49 | -2.44 | | |
| -4.6 | -3.52 | -2.41 | | |
| -4.84 | -7.49 | -6.3 | | |
| -9.02 | -4.62 | -2.54 | | |
| 1.81 | -1.89 | -3.46 | | |
| 1.54 | 2.16 | 0.82 | | |
| 1.31 | -1.99 | -3.1 | | |
| 1.28 | 1.41 | 0.34 | | |
| -3.33 | -4.01 | -2.99 | | |
| -3.52 | -1.49 | -0.39 | | |
| 2.02 | -5.28 | -6.86 | | |
| 1.54 | -2.4 | -3.58 | | |
| 1.51 | -2.49 | -3.64 | | |
| 1.48 | -4.93 | -6.05 | | |
| 1.43 | -1.39 | -2.46 | | |
| 1.38 | -4.04 | -5.07 | | |
| -3.3 | -3.23 | -2.06 | | |
| 1.41 | -2.53 | -4.1 | | |
| 1 | -6.24 | -7.32 | | |
| -1.02 | -3.92 | -4.97 | | |
| -6.09 | -5.7 | -4.17 | | |
| 1.51 | -2.32 | -3.88 | | |
| 1.32 | 0.68 | -0.69 | | |
| -4.15 | -0.93 | 0.16 | | |
| -5.12 | -0.38 | 1 | | |
| 2.63 | -2.58 | -4.16 | | |
| -2.31 | -2.17 | -1.14 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.65 | -1.27 | -0.04 | | |
| -3.69 | -3.88 | -2.17 | | |
| 3.53 | -2.78 | -4.35 | | |
| 3.17 | -4.32 | -5.74 | | |
| -1.69 | -4.35 | -3.34 | | |
| -2.44 | -4.36 | -2.82 | | |
| 2.23 | 0.73 | -0.84 | | |
| 1.87 | 0 | -1.32 | | |
| 1.64 | 0.1 | -1.02 | | |
| 1.59 | 0.89 | -0.19 | | |
| 1.57 | -2.96 | -4.03 | | |
| 1.52 | 0.01 | -1.01 | | |
| 1.51 | 0.61 | -0.39 | | |
| -3.06 | -2.85 | -1.64 | | |
| -3.83 | -3.03 | -1.5 | | |
| 1.63 | -7.06 | -8.62 | | |
| 1.36 | -6.94 | -8.24 | | |
| 1.2 | -5.67 | -6.8 | | |
| 2.07 | 0.7 | -0.87 | | |
| 1.7 | 0.88 | -0.4 | | |
| 1.5 | 0.34 | -0.77 | | |
| 1.45 | 0.08 | -0.97 | | |
| -4.93 | 0.62 | 2.4 | | |
| 1.59 | -4.25 | -5.81 | | |
| 1.52 | -1.56 | -3.06 | | |
| 1.28 | -4.45 | -5.69 | | |
| 1.2 | -3.17 | -4.33 | | |
| 1.11 | 0.63 | -0.41 | | |
| 1.17 | 1.43 | -0.13 | | |
| -1.07 | 2.84 | 1.59 | | |
| -1.09 | 0.17 | -1.05 | | |
| -1.19 | -1.14 | -2.23 | | |
| -6.2 | -1.11 | 0.18 | | |
| -6.41 | -0.05 | 1.29 | | |
| -6.69 | -1.23 | 0.17 | | |
| -6.91 | -0.79 | 0.65 | | |
| 1.62 | -0.69 | -2.25 | | |
| 1.47 | 2.68 | 1.25 | | |
| 1.26 | 0.61 | -0.59 | | |
| 1.1 | -0.47 | -1.48 | | |
| -5.3 | -1.23 | 0.31 | | |
| 2.95 | -0.11 | -1.68 | | |
| 2.26 | -0.25 | -1.43 | | |
| 2.22 | -1.3 | -2.45 | | |
| -2.14 | -1.66 | -0.57 | | |
| -2.2 | -4.08 | -2.95 | | |
| 2.32 | -1.19 | -2.75 | | |
| 2.03 | -0.82 | -2.19 | | |
| 4.12 | 0.79 | -0.77 | | |
| 3.19 | 0.85 | -0.34 | | |
| 2.88 | -1.87 | -2.92 | | |
| 2.93 | -1.15 | -2.71 | | |
| -2.14 | -1.98 | -0.89 | | |
| 28.46 | 0.38 | -1.18 | | |
| 4.35 | 0.58 | 1.72 | | |
| 2.8 | -3.12 | -1.33 | | |
| 2.5 | -3.66 | -1.72 | | |
| 2.13 | -4.01 | -1.83 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.64 | -5.43 | -2.87 | | |
| 1.57 | -4.74 | -2.13 | | |
| 1.18 | -4.71 | -1.68 | | |
| 2.74 | -0.86 | -2.42 | | |
| -2.46 | -3.92 | -2.73 | | |
| 1.98 | -2.16 | -3.72 | | |
| 1.82 | 2.42 | 0.98 | | |
| 1.81 | -1.13 | -2.57 | | |
| 1.78 | 2.9 | 1.49 | | |
| 1.45 | -4.29 | -5.4 | | |
| 1.43 | -1.08 | -2.18 | | |
| 1.37 | -2.12 | -3.14 | | |
| 1.35 | 0.34 | -0.66 | | |
| -3.02 | -5.51 | -4.49 | | |
| 2.55 | -4.47 | -6.03 | | |
| 2.43 | -0.57 | -2.06 | | |
| 2.41 | -5.27 | -6.75 | | |
| -2.39 | -1.78 | -0.74 | | |
| 1.61 | -2.14 | -3.7 | | |
| 1.52 | -0.83 | -2.3 | | |
| 1.2 | 0.54 | -0.59 | | |
| 1.19 | 3.91 | 2.79 | | |
| -3.98 | -1.51 | -0.39 | | |
| -5.21 | -0.98 | 0.53 | | |
| -5.26 | -3.1 | -1.57 | | |
| 3.21 | -0.74 | -2.3 | | |
| -2 | -3.43 | -2.31 | | |
| -2.01 | -4.71 | -3.59 | | |
| -2.19 | -4.53 | -3.28 | | |
| -2.3 | -4.39 | -3.07 | | |
| -3.7 | -4.82 | -2.81 | | |
| 2.75 | 0.91 | -0.64 | | |
| -2.16 | 0.64 | 1.65 | | |
| -2.2 | -1 | 0.04 | | |
| -2.22 | -1.37 | -0.31 | | |
| -2.35 | -2.7 | -1.57 | | |
| -2.4 | -0.83 | 0.34 | | |
| -2.47 | -0.41 | 0.8 | | |
| -2.76 | -1.65 | -0.29 | | |
| -3.02 | -1.81 | -0.31 | | |
| -3.4 | -0.71 | 0.95 | | |
| -4.8 | -2.93 | -0.76 | | |
| 1.06 | 3.87 | 2.31 | | |
| -1.07 | -2.25 | -3.63 | | |
| -1.08 | 0.73 | -0.63 | | |
| -1.26 | -0.1 | -1.24 | | |
| -1.28 | -1.16 | -2.28 | | |
| 7.21 | -3.85 | -5.41 | | |
| 6.86 | -3.74 | -5.23 | | |
| 5.62 | -4.27 | -5.47 | | |
| 5.46 | -4.76 | -5.92 | | |
| 5.28 | -5.64 | -6.75 | | |
| 1.21 | -3.4 | -2.39 | | |
| 1.2 | 1.3 | 2.33 | | |
| 1.19 | 0.86 | 1.9 | | |
| 1.19 | 0.97 | 2.01 | | |
| 1.16 | 0.8 | 1.87 | | |
| 1.16 | 1.17 | 2.25 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.16 | 0.89 | 1.97 | | |
| 1.12 | 1.34 | 2.46 | | |
| 1.12 | 0.85 | 1.98 | | |
| -1 | 0.67 | 1.96 | | |
| -1.05 | -1.94 | -0.58 | | |
| 1.72 | -0.6 | -2.16 | | |
| 1.68 | 1.99 | 0.46 | | |
| 1.23 | 3.76 | 2.68 | | |
| -3.92 | -2.18 | -0.99 | | |
| 3.03 | -6.45 | -8.01 | | |
| 2.16 | -4.74 | -5.82 | | |
| -2.1 | -8.56 | -7.44 | | |
| 1.23 | 2.88 | 1.32 | | |
| 1.01 | 2.64 | 1.37 | | |
| -1.06 | -1.63 | -2.82 | | |
| -1.06 | -3.15 | -4.33 | | |
| -6.12 | -2.28 | -0.93 | | |
| 1.23 | 2.88 | 1.32 | | |
| 1.01 | 2.64 | 1.37 | | |
| -1.06 | -1.63 | -2.82 | | |
| -1.06 | -3.15 | -4.33 | | |
| -6.12 | -2.28 | -0.93 | | |
| 2.06 | -0.25 | -1.81 | | |
| 1.91 | -4.24 | -5.7 | | |
| 1.78 | -4.78 | -6.13 | | |
| -4.51 | -4.32 | -2.67 | | |
| 1.23 | 2.88 | 1.32 | | |
| 1.01 | 2.64 | 1.37 | | |
| -1.06 | -1.63 | -2.82 | | |
| -1.06 | -3.15 | -4.33 | | |
| -6.12 | -2.28 | -0.93 | | |
| 4.62 | 0.86 | -0.69 | | |
| -1.33 | 0.99 | 2.05 | | |
| -1.71 | -0.12 | 1.31 | | |
| -1.86 | -2.71 | -1.17 | | |
| 2.01 | -2.28 | -3.83 | | |
| 1.83 | -1.24 | -2.65 | | |
| 1.77 | -1.47 | -2.84 | | |
| 1.69 | -4.91 | -6.21 | | |
| 1.4 | -2.47 | -3.5 | | |
| 1.39 | -3.86 | -4.89 | | |
| 1.97 | -2.24 | -3.79 | | |
| 1.55 | -1.7 | -2.9 | | |
| 1.49 | 2.16 | 1.01 | | |
| 1.43 | -1.86 | -2.95 | | |
| 1.41 | 0.24 | -0.83 | | |
| 1.75 | -2.95 | -4.51 | | |
| 1.39 | 2.57 | 1.34 | | |
| 1.2 | -0.62 | -1.64 | | |
| 2.15 | -1.55 | -3.11 | | |
| 2.15 | -2.1 | -3.66 | | |
| -2.83 | -3.17 | -2.11 | | |
| 1.34 | -0.32 | -1.88 | | |
| 1.15 | 1.54 | 0.21 | | |
| 1.13 | 1.45 | 0.14 | | |
| 1.08 | -0.44 | -1.69 | | |
| -1 | -0.53 | -1.65 | | |
| -1.03 | 0.09 | -1 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.53 | -0.64 | -2.19 | | |
| 1.47 | 2.87 | 1.37 | | |
| 1.38 | -1.09 | -2.5 | | |
| 1.14 | 0.84 | -0.3 | | |
| 1.14 | 1.39 | 0.26 | | |
| 1.09 | 0.15 | -0.91 | | |
| 1.24 | 4.29 | 2.73 | | |
| 1.15 | 2.29 | 0.84 | | |
| 1.04 | 2.06 | 0.75 | | |
| 1.03 | 2.36 | 1.07 | | |
| -1.18 | 1.04 | 0.02 | | |
| -5.45 | -0.05 | 1.14 | | |
| -8.65 | -3 | -1.14 | | |
| -14.41 | -3.35 | -0.76 | | |
| 14.06 | 0.02 | -1.54 | | |
| 9.58 | 1.6 | 0.6 | | |
| 2.24 | -0.8 | 0.3 | | |
| 2.15 | -0.98 | 0.17 | | |
| 2.1 | -1.13 | 0.06 | | |
| 1.95 | 1.61 | 2.9 | | |
| 1.91 | 1.13 | 2.46 | | |
| 1.57 | 0.89 | 2.5 | | |
| 1.52 | -3.68 | -2.02 | | |
| -1.19 | -0.23 | 2.28 | | |
| 2.23 | -1.81 | -3.36 | | |
| 1.65 | -4.63 | -5.75 | | |
| 1.52 | 3.34 | 2.34 | | |
| 1.91 | 0.57 | -0.98 | | |
| -3.73 | -2.44 | -1.15 | | |
| 1.72 | 4.3 | 2.75 | | |
| 1.5 | 0.46 | -0.89 | | |
| 1.41 | -1.56 | -2.83 | | |
| 1.39 | 1.08 | -0.16 | | |
| 1.35 | -2.35 | -3.56 | | |
| 1.25 | 0.96 | -0.14 | | |
| 1.21 | -2.1 | -3.15 | | |
| 2.61 | -4 | -5.55 | | |
| 1.85 | -4.09 | -5.14 | | |
| -2.39 | -4.57 | -3.48 | | |
| 2.11 | -0.73 | -2.28 | | |
| 1.55 | -1.67 | -2.76 | | |
| 1.54 | -3.09 | -4.18 | | |
| 1.46 | -1.09 | -2.1 | | |
| -3.56 | -1.28 | 0.08 | | |
| -3.78 | -3.77 | -2.32 | | |
| -3.78 | -2.79 | -1.34 | | |
| 1.62 | 2.5 | 0.95 | | |
| 1.28 | 1.27 | 0.05 | | |
| -4.26 | -0.51 | 0.72 | | |
| 4.49 | -1.82 | -3.37 | | |
| -1.38 | -1.57 | -0.49 | | |
| 1.14 | -0.22 | -1.77 | | |
| 1.11 | -3.56 | -5.07 | | |
| -1.1 | -1.34 | -2.57 | | |
| -5.93 | -3.67 | -2.46 | | |
| -7.08 | -5.19 | -3.73 | | |
| 277.41 | 0.81 | -0.74 | | |
| 193.04 | 0.54 | -0.49 | | |

| | | | | |
|--------|-------|-------|--|--|
| 43.1 | 0.62 | 1.76 | | |
| 35.8 | -0.27 | 1.13 | | |
| 35.47 | -1.32 | 0.09 | | |
| 28.03 | -2.8 | -1.04 | | |
| 25.74 | -2.05 | -0.17 | | |
| 23.95 | -2.82 | -0.84 | | |
| 20.39 | -3.17 | -0.96 | | |
| 7.21 | -5.01 | -1.3 | | |
| -1.47 | -7.99 | -0.88 | | |
| -1.05 | 4.71 | 3.16 | | |
| -1.05 | -1.53 | -3.08 | | |
| -1.18 | 2.22 | 0.83 | | |
| -1.34 | -0.24 | -1.43 | | |
| -1.44 | -0.77 | -1.86 | | |
| -6.18 | -2.7 | -1.7 | | |
| -6.35 | -3.03 | -1.98 | | |
| -6.96 | -3.28 | -2.1 | | |
| -9.46 | -0.57 | 1.05 | | |
| -12.96 | -2.31 | -0.24 | | |
| 1.67 | -0.97 | -2.53 | | |
| 1.52 | -0.32 | -1.74 | | |
| 1.39 | 1.34 | 0.05 | | |
| 1.28 | 1.48 | 0.3 | | |
| 1.28 | 0.59 | -0.58 | | |
| 1.26 | -1.44 | -2.59 | | |
| 1.18 | 0.96 | -0.1 | | |
| -7.12 | -2.73 | -0.72 | | |
| 4.69 | 0.27 | -1.29 | | |
| 3.49 | -0.6 | -1.73 | | |
| -1.27 | 0.15 | 1.18 | | |
| -1.45 | -1.54 | -0.33 | | |
| -1.46 | -2.79 | -1.57 | | |
| -1.59 | -2.63 | -1.28 | | |
| -1.75 | -1.49 | 0 | | |
| -2.31 | -2.55 | -0.67 | | |
| 5.14 | -3.54 | -5.09 | | |
| 4.76 | -2.87 | -4.31 | | |
| -1.18 | -4.98 | -3.92 | | |
| -1.67 | -5.1 | -3.55 | | |
| 3.28 | 0.3 | -1.25 | | |
| -1.8 | -1.11 | -0.1 | | |
| 2.66 | 2.01 | 0.46 | | |
| 2.31 | 0.48 | -0.87 | | |
| 2.16 | -2.37 | -3.62 | | |
| 1.87 | 3.93 | 2.88 | | |
| -2.25 | -1.36 | -0.32 | | |
| -2.27 | -1.13 | -0.08 | | |
| -2.34 | -2.51 | -1.42 | | |
| -2.51 | -3.99 | -2.8 | | |
| 2.75 | -1.4 | -2.95 | | |
| 1.99 | 2.36 | 1.27 | | |
| -2.16 | -2.14 | -1.12 | | |
| 3.6 | -0.92 | -2.47 | | |
| 2.99 | 0.25 | -1.03 | | |
| -1.86 | -1.47 | -0.27 | | |
| -2.27 | -2.41 | -0.93 | | |
| 3.61 | 2.37 | 0.82 | | |
| 2.92 | 2.82 | 1.58 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.65 | -2.29 | -0.11 | | |
| 2.78 | -0.29 | -1.84 | | |
| 2.38 | -0.56 | -1.88 | | |
| 2.31 | -1.95 | -3.23 | | |
| 2.25 | 4.17 | 2.93 | | |
| -2.09 | -2.63 | -1.64 | | |
| -2.11 | -3.71 | -2.7 | | |
| -2.23 | -2.66 | -1.57 | | |
| -2.3 | -0.87 | 0.26 | | |
| -3.54 | -2.73 | -0.97 | | |
| 1.46 | 6.32 | 4.77 | | |
| 1.3 | 2.47 | 1.08 | | |
| 1.24 | -0.16 | -1.48 | | |
| 1.09 | -0.27 | -1.4 | | |
| 1.06 | 4.82 | 3.73 | | |
| 1.02 | 10.37 | 9.34 | | |
| 3.34 | 3.3 | 1.75 | | |
| -2.42 | -1.01 | 0.46 | | |
| 4.96 | -0.54 | -2.09 | | |
| 4.93 | -1.01 | -2.54 | | |
| 4.13 | -1.79 | -3.07 | | |
| 3.53 | -2.69 | -3.75 | | |
| -1.21 | -1.38 | -0.35 | | |
| -1.24 | -5.14 | -4.06 | | |
| -1.29 | -4.61 | -3.48 | | |
| -1.36 | -5.02 | -3.81 | | |
| -1.42 | -3.43 | -2.16 | | |
| -1.73 | -3.64 | -2.09 | | |
| 3.4 | 0.76 | -0.79 | | |
| 2.67 | 1.74 | 0.55 | | |
| 2.39 | 0.54 | -0.5 | | |
| 2.36 | -0.68 | -1.7 | | |
| -1.83 | -1.18 | -0.08 | | |
| 2.94 | -1.89 | -3.43 | | |
| -2.09 | -2.09 | -1.01 | | |
| 2.19 | 0.08 | -1.47 | | |
| 1.74 | 2.08 | 0.86 | | |
| 1.5 | 2.85 | 1.85 | | |
| 3.44 | -0.58 | -2.13 | | |
| 3.16 | 0.56 | -0.87 | | |
| -1.74 | -1.52 | -0.48 | | |
| 1.47 | -3.96 | -5.5 | | |
| 1.32 | -5.59 | -6.97 | | |
| 1.13 | -0.35 | -1.51 | | |
| 1.14 | -0.74 | -1.91 | | |
| 1.06 | -1.35 | -2.41 | | |
| -4.63 | -1.49 | -0.27 | | |
| 2.09 | -1.12 | -2.66 | | |
| 1.88 | -0.36 | -1.74 | | |
| 1.56 | -1.17 | -2.29 | | |
| 2.58 | -1.49 | -3.03 | | |
| 2.1 | -3.82 | -5.06 | | |
| 2.06 | -2.52 | -3.74 | | |
| 1.88 | 0.79 | -0.3 | | |
| 1.79 | 0.77 | -0.24 | | |
| 3.05 | 2.16 | 0.62 | | |
| 2.59 | 3.66 | 2.35 | | |
| 2.3 | 0.26 | -0.87 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.96 | -3.47 | -5.01 | | |
| 1.6 | -2.42 | -3.67 | | |
| -3.32 | -1.66 | -0.49 | | |
| 2.87 | 2.75 | 1.21 | | |
| 2.33 | 0.4 | -0.84 | | |
| 2.31 | 1.55 | 0.32 | | |
| 2.17 | 0.53 | -0.61 | | |
| -2.44 | -2.37 | -1.1 | | |
| 1.62 | -0.42 | -1.97 | | |
| 1.29 | -0.06 | -1.27 | | |
| 1.18 | 0.24 | -0.85 | | |
| -3.64 | 1.08 | 2.1 | | |
| -3.64 | 2.42 | 3.44 | | |
| -3.63 | 0.35 | 1.36 | | |
| -3.76 | 0.65 | 1.71 | | |
| -3.99 | 1.44 | 2.59 | | |
| -4.01 | 0.26 | 1.42 | | |
| -4.44 | 1.15 | 2.45 | | |
| -5.8 | 1.07 | 2.76 | | |
| 5.39 | 0.51 | -1.03 | | |
| 4.28 | -0.03 | -1.24 | | |
| 4.07 | -1.84 | -2.98 | | |
| 4.05 | -0.37 | -1.5 | | |
| 3.85 | 0.53 | -0.53 | | |
| -1.08 | 0.97 | 1.97 | | |
| -1.16 | 0.5 | 1.61 | | |
| -1.26 | -0.84 | 0.39 | | |
| 1.82 | -0.47 | -2 | | |
| 1.81 | -0.28 | -1.81 | | |
| 1.64 | 1.92 | 0.53 | | |
| 1.58 | -0.93 | -2.26 | | |
| 1.55 | -0.74 | -2.04 | | |
| 1.53 | -0.68 | -1.96 | | |
| 1.47 | 0.79 | -0.44 | | |
| 1.42 | 0.25 | -0.93 | | |
| 1.32 | -0.03 | -1.11 | | |
| -3.57 | -0.86 | 0.3 | | |
| -3.61 | -1.4 | -0.22 | | |
| -3.81 | -1.4 | -0.14 | | |
| -4.3 | -0.61 | 0.83 | | |
| -6.37 | -1.67 | 0.33 | | |
| 2.3 | -4.56 | -6.1 | | |
| 1.7 | -2.43 | -3.54 | | |
| 2.9 | -2.2 | -3.74 | | |
| 2.73 | -1.31 | -2.76 | | |
| -2.64 | -2.66 | -1.26 | | |
| 2.07 | -4.08 | -5.62 | | |
| 1.85 | -3 | -4.38 | | |
| -3.89 | -4.53 | -3.06 | | |
| 1.97 | -0.86 | -2.4 | | |
| 1.7 | 1.68 | 0.35 | | |
| 1.48 | -1.51 | -2.64 | | |
| 1.51 | -0.64 | -2.18 | | |
| 1.04 | 2.04 | 1.03 | | |
| -4.78 | -4.43 | -3.12 | | |
| 1.67 | 0.41 | -1.13 | | |
| 1.16 | 1.48 | 0.46 | | |
| 1.97 | -4.39 | -5.93 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.38 | -4.16 | -5.18 | | |
| 1.36 | -2.68 | -3.68 | | |
| -2.96 | -3.44 | -2.43 | | |
| -3.09 | -4.57 | -3.5 | | |
| 1.7 | 1.41 | -0.12 | | |
| 1.27 | -0.02 | -1.14 | | |
| 1.24 | -0.51 | -1.59 | | |
| 1.18 | -0.91 | -1.92 | | |
| -4.78 | -0.61 | 0.88 | | |
| -5.5 | -2.91 | -1.22 | | |
| 1.55 | 2.78 | 1.25 | | |
| 1.54 | -1.33 | -2.86 | | |
| 1.36 | 0.59 | -0.76 | | |
| 1.32 | 1.67 | 0.37 | | |
| 1.3 | 4.15 | 2.86 | | |
| 1.25 | 0.54 | -0.69 | | |
| 1.21 | 0.24 | -0.94 | | |
| 1.18 | 1.45 | 0.31 | | |
| 1.17 | 1.59 | 0.45 | | |
| 1.15 | -0.45 | -1.56 | | |
| 1.14 | 1.59 | 0.49 | | |
| 1.12 | 2.49 | 1.42 | | |
| 1.13 | -0.24 | -1.31 | | |
| 1.1 | -1.63 | -2.67 | | |
| -4.3 | -2.34 | -1.14 | | |
| -4.4 | -1.62 | -0.38 | | |
| -5.03 | 0.05 | 1.47 | | |
| -5.7 | -1.09 | 0.51 | | |
| -5.7 | -1.24 | 0.37 | | |
| -9.94 | -1.62 | 0.79 | | |
| 1.57 | -0.21 | -1.74 | | |
| 1.35 | -0.5 | -1.81 | | |
| 1.13 | -0.58 | -1.64 | | |
| 1.13 | 0.84 | -0.22 | | |
| 1.12 | 1.2 | 0.14 | | |
| 1.12 | 1.18 | 0.12 | | |
| 1.11 | 0.34 | -0.71 | | |
| 1.1 | 1.21 | 0.18 | | |
| 1.09 | -1.26 | -2.27 | | |
| 2.18 | 1.02 | -0.51 | | |
| -2.69 | 0.7 | 1.72 | | |
| 4.94 | 0.97 | -0.57 | | |
| 4.4 | 0.03 | -1.34 | | |
| 3.5 | 1.59 | 0.55 | | |
| -1.92 | 0.81 | 2.52 | | |
| -2.23 | -1.07 | 0.86 | | |
| 1.34 | -3.52 | -5.05 | | |
| 1.23 | -0.92 | -2.34 | | |
| 1.11 | 2.42 | 1.15 | | |
| -1.02 | 3.91 | 2.82 | | |
| 3.82 | -1.33 | -2.87 | | |
| -1.59 | 1.54 | 2.61 | | |
| 2.71 | -1.97 | -3.5 | | |
| 2.01 | -5.32 | -6.42 | | |
| -2.2 | -6.91 | -5.86 | | |
| -2.37 | -4.38 | -3.23 | | |
| -3 | -9.63 | -8.14 | | |
| 2.36 | 1.32 | -0.21 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.63 | -0.48 | -1.48 | | |
| 2.58 | -0.38 | -1.91 | | |
| 1.84 | -1.99 | -3.04 | | |
| -2.33 | -1.61 | -0.56 | | |
| 1.4 | -2.42 | -3.95 | | |
| 1.12 | 0.77 | -0.43 | | |
| 1.12 | 3.52 | 2.31 | | |
| 1.1 | -2.74 | -3.92 | | |
| 1.05 | -1.17 | -2.29 | | |
| 1.03 | -2.06 | -3.14 | | |
| 1.02 | -1.71 | -2.79 | | |
| -1 | 0.53 | -0.51 | | |
| -1.02 | 0.47 | -0.54 | | |
| -1.03 | -1.23 | -2.23 | | |
| -4.18 | -1.91 | -0.89 | | |
| 2.17 | -4.72 | -6.25 | | |
| 1.68 | -1.79 | -2.96 | | |
| 1.67 | -0.9 | -2.05 | | |
| 2.2 | 0.65 | -0.88 | | |
| 2.18 | -0.28 | -1.8 | | |
| -2.67 | -0.82 | 0.2 | | |
| -2.81 | 0.24 | 1.34 | | |
| -2.99 | -1.12 | 0.07 | | |
| 91.96 | -0.3 | -1.83 | | |
| 77.91 | -0.66 | -1.96 | | |
| 69.66 | 0.39 | -0.74 | | |
| 68.1 | -1.93 | -3.03 | | |
| 14.86 | -0.53 | 0.57 | | |
| 8.08 | -4.13 | -2.15 | | |
| 4.64 | -5.41 | -2.63 | | |
| 3.2 | -4.69 | -1.38 | | |
| 2.88 | -0.1 | 3.36 | | |
| 2.37 | -4.36 | -0.62 | | |
| 2.1 | -1.11 | 2.81 | | |
| 1.44 | -7.84 | -3.38 | | |
| 1.14 | -0.03 | 4.76 | | |
| -1.01 | -4.49 | 0.52 | | |
| -1.16 | -3.5 | 1.7 | | |
| -1.18 | -5.51 | -0.27 | | |
| -1.27 | -1.1 | 4.23 | | |
| 1.86 | 0.05 | -1.48 | | |
| -4.01 | -4.63 | -3.27 | | |
| 1.49 | 1.43 | -0.1 | | |
| 1.06 | -1.05 | -2.08 | | |
| 3.42 | -1.99 | -3.52 | | |
| 2.69 | 2.89 | 1.71 | | |
| 2.55 | 0.39 | -0.72 | | |
| -2.06 | 0.33 | 1.62 | | |
| -3.98 | -2.59 | -0.36 | | |
| 2.9 | -2.11 | -3.64 | | |
| -2.54 | -2.14 | -0.78 | | |
| -2.62 | -1.23 | 0.17 | | |
| -2.67 | -3.61 | -2.18 | | |
| -3.49 | -4.22 | -2.41 | | |
| -4 | -5.17 | -3.16 | | |
| 2.27 | -1.35 | -2.88 | | |
| 1.75 | -0.27 | -1.42 | | |
| 1.72 | 0.4 | -0.74 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.68 | -1.71 | -0.63 | | |
| 1.47 | 1.12 | -0.41 | | |
| 1.25 | -2.06 | -3.36 | | |
| 1.13 | 0.12 | -1.04 | | |
| 1.06 | 0.28 | -0.79 | | |
| -4.74 | -1.27 | 0 | | |
| -4.76 | -4.76 | -3.49 | | |
| 1.46 | -1.37 | -2.91 | | |
| 1.33 | 2.19 | 0.8 | | |
| 1.16 | 1.71 | 0.5 | | |
| 1.04 | -0.86 | -1.9 | | |
| 1.46 | -1.63 | -3.17 | | |
| 1.38 | 1.24 | -0.21 | | |
| 1.09 | 0.18 | -0.94 | | |
| 1.09 | 2.09 | 0.98 | | |
| 1.07 | -0.89 | -1.97 | | |
| 1.06 | 1.48 | 0.41 | | |
| 1.03 | -1.13 | -2.16 | | |
| 6.25 | 2.15 | 0.62 | | |
| 4.74 | 1.5 | 0.37 | | |
| 4.62 | 1.7 | 0.61 | | |
| -1.11 | 5.2 | 6.46 | | |
| 2.47 | 0.09 | -1.44 | | |
| -2.54 | -3.31 | -2.19 | | |
| 7.11 | 1.61 | 0.09 | | |
| 6.97 | 0.93 | -0.57 | | |
| 5.03 | 0.55 | -0.47 | | |
| 1.05 | -1.2 | 0.03 | | |
| 1.04 | -1.44 | -0.19 | | |
| 1.02 | -1.7 | -0.41 | | |
| -1.04 | 0.79 | 2.15 | | |
| -1.06 | -1.59 | -0.2 | | |
| -2.23 | -1.8 | 0.66 | | |
| 1.77 | -0.94 | -2.46 | | |
| 1.73 | -0.73 | -2.23 | | |
| 1.43 | 2.83 | 1.62 | | |
| 1.38 | 1.66 | 0.49 | | |
| 1.33 | 1.07 | -0.05 | | |
| 1.31 | 2.75 | 1.65 | | |
| 1.3 | -2.09 | -3.18 | | |
| 1.31 | 0.35 | -0.74 | | |
| 1.3 | 0.1 | -0.99 | | |
| 1.27 | 4.24 | 3.18 | | |
| 1.27 | 0.51 | -0.54 | | |
| -3.26 | 0.57 | 1.56 | | |
| -3.36 | 0 | 1.04 | | |
| -3.67 | -1.78 | -0.61 | | |
| -3.75 | 0.69 | 1.89 | | |
| -5.34 | -1.7 | 0.01 | | |
| -6.13 | -2.29 | -0.38 | | |
| -6.2 | -1.9 | 0.02 | | |
| -8.3 | -2.3 | 0.04 | | |
| -10.51 | -3.2 | -0.51 | | |
| 1.94 | -0.68 | -2.21 | | |
| -3.2 | -2.34 | -1.23 | | |
| 6.33 | -5.58 | -7.1 | | |
| 4.96 | -3.98 | -5.15 | | |
| -1.17 | -3.92 | -2.55 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.81 | 3.35 | 1.82 | | |
| 1.33 | 2.16 | 1.08 | | |
| 1.33 | 1.26 | 0.18 | | |
| 1.32 | 2.22 | 1.15 | | |
| 1.31 | 5.18 | 4.12 | | |
| 2.77 | -2.12 | -3.64 | | |
| -3.49 | -4.45 | -2.7 | | |
| 2.21 | -0.78 | -2.3 | | |
| 1.79 | 5.03 | 3.81 | | |
| 1.72 | 4.04 | 2.87 | | |
| 1.54 | 1.51 | 0.51 | | |
| -2.99 | -1.55 | -0.35 | | |
| -3.08 | -1.68 | -0.44 | | |
| 18.6 | 2.4 | 0.87 | | |
| 13.94 | 0.44 | -0.67 | | |
| 13.41 | 0.89 | -0.16 | | |
| 3.23 | -2.28 | -1.28 | | |
| 2.94 | -2.06 | -0.93 | | |
| 2.7 | 2.02 | 3.28 | | |
| 2.57 | -2.73 | -1.4 | | |
| 2.57 | -2.73 | -1.4 | | |
| 2.02 | -2.89 | -1.21 | | |
| 1.88 | -3.09 | -1.31 | | |
| 1.88 | 1.85 | 3.63 | | |
| 1.63 | 2.95 | 4.94 | | |
| 1.48 | -3.24 | -1.12 | | |
| 1.4 | 0.29 | 2.5 | | |
| 1.39 | -3.52 | -1.31 | | |
| -1.01 | -4.02 | -1.31 | | |
| -1.28 | 0.6 | 3.65 | | |
| 2.12 | -1.78 | -3.3 | | |
| 1.58 | -1.86 | -2.95 | | |
| 1.51 | -0.82 | -1.86 | | |
| -5.72 | -3.32 | -1.24 | | |
| 2.07 | -2.33 | -3.86 | | |
| -2.98 | -0.12 | 0.98 | | |
| -3.34 | -2.01 | -0.75 | | |
| -10.5 | -3.72 | -0.81 | | |
| 38.58 | -0.68 | -2.21 | | |
| 27.98 | -0.63 | -1.69 | | |
| 27.4 | -0.27 | -1.3 | | |
| 5.05 | -0.62 | 0.78 | | |
| 4.67 | -4.21 | -2.69 | | |
| 2.04 | -4.61 | -1.9 | | |
| 1.37 | -4.86 | -1.57 | | |
| 1.66 | -3.45 | -4.98 | | |
| 1.46 | -1.97 | -3.31 | | |
| 1.4 | 3.82 | 2.55 | | |
| 1.33 | -0.52 | -1.72 | | |
| 1.19 | 2.29 | 1.25 | | |
| -4.33 | -3.56 | -2.24 | | |
| 1.59 | -2.46 | -3.99 | | |
| 1.19 | 3.96 | 2.85 | | |
| -3.68 | -0.09 | 0.93 | | |
| -3.71 | 0.27 | 1.31 | | |
| -4.05 | -2.85 | -1.69 | | |
| -5.95 | -1.89 | -0.17 | | |
| -9.71 | -4.33 | -1.91 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.24 | -1.25 | -2.78 | | |
| 1.16 | -1.01 | -2.43 | | |
| 1.15 | 1.34 | -0.07 | | |
| 1 | 1.3 | 0.08 | | |
| -1.04 | -0.24 | -1.4 | | |
| -1.04 | 5.36 | 4.21 | | |
| -4.67 | -0.09 | 0.92 | | |
| -5.38 | -0.36 | 0.86 | | |
| -5.74 | 0.08 | 1.39 | | |
| -6.52 | -1.65 | -0.15 | | |
| 6.31 | -0.35 | -1.87 | | |
| 4.98 | 0.64 | -0.54 | | |
| 1.06 | 2.99 | 4.03 | | |
| 1.04 | 0.9 | 1.98 | | |
| 1.02 | -1.49 | -0.39 | | |
| 1 | -1.65 | -0.51 | | |
| -1.01 | 5.96 | 7.11 | | |
| -1.02 | 3.36 | 4.51 | | |
| -1.04 | 1.06 | 2.24 | | |
| -1.05 | 7.16 | 8.36 | | |
| -1.06 | -2.7 | -1.48 | | |
| -1.09 | 0.22 | 1.48 | | |
| -1.12 | -1.13 | 0.16 | | |
| -1.13 | 1.07 | 2.39 | | |
| -1.18 | -2.16 | -0.78 | | |
| -1.38 | 1 | 2.59 | | |
| -1.69 | 0 | 1.89 | | |
| -1.84 | -1.15 | 0.87 | | |
| 1.84 | 2.1 | 0.58 | | |
| 1.79 | -2.7 | -4.19 | | |
| 1.74 | -1.7 | -3.14 | | |
| 1.64 | -1.25 | -2.6 | | |
| 1.61 | -0.81 | -2.13 | | |
| 1.45 | -1 | -2.18 | | |
| 1.41 | 3.76 | 2.62 | | |
| -3.26 | -2.8 | -1.74 | | |
| -3.79 | -3.76 | -2.48 | | |
| -4.45 | -3.83 | -2.32 | | |
| 1.64 | 0.05 | -1.47 | | |
| 1.59 | -0.73 | -2.21 | | |
| -3.99 | -0.01 | 1.17 | | |
| 1.04 | -1.58 | -3.1 | | |
| 1.02 | -4.52 | -6 | | |
| -1.05 | 0.66 | -0.73 | | |
| -1.05 | -2 | -3.4 | | |
| -7.71 | -4.38 | -2.89 | | |
| 2.31 | -0.46 | -1.98 | | |
| 1.82 | -1.66 | -2.84 | | |
| -3.25 | -5.99 | -4.61 | | |
| 16.43 | -1.47 | -2.99 | | |
| 16.22 | -0.42 | -1.93 | | |
| 14.92 | 0.03 | -1.36 | | |
| 14.48 | 0.45 | -0.89 | | |
| 13.95 | -1.71 | -2.99 | | |
| 13.08 | -1.06 | -2.25 | | |
| 12.79 | 0.12 | -1.04 | | |
| 12.57 | -2.84 | -3.98 | | |
| 12.3 | -1.29 | -2.4 | | |

| | | | | |
|-------|-------|-------|--|--|
| 12.27 | 0.54 | -0.56 | | |
| 11.93 | 0.18 | -0.88 | | |
| 11.72 | -2.23 | -3.26 | | |
| 11.5 | -3.01 | -4.02 | | |
| 2.86 | -5.67 | -4.67 | | |
| 2.74 | -2.09 | -1.03 | | |
| 2.71 | -1.06 | 0.02 | | |
| 2.69 | -1.06 | 0.03 | | |
| 2.5 | 0.46 | 1.66 | | |
| 2.49 | -1.7 | -0.5 | | |
| 2.38 | -1.05 | 0.21 | | |
| 2.34 | -5.27 | -3.98 | | |
| 2.24 | -4.46 | -3.11 | | |
| 2.24 | 1.06 | 2.41 | | |
| 2.05 | -2.71 | -1.22 | | |
| 2.04 | 0.73 | 2.21 | | |
| 2.03 | -1.54 | -0.05 | | |
| 2.02 | -4.52 | -3.02 | | |
| 2 | -3.61 | -2.09 | | |
| 1.99 | -3.58 | -2.06 | | |
| 1.99 | -0.95 | 0.57 | | |
| 1.97 | 0.65 | 2.19 | | |
| 1.95 | -4.1 | -2.55 | | |
| 1.89 | -2.98 | -1.38 | | |
| 1.82 | -1.47 | 0.19 | | |
| 1.79 | -5.65 | -3.97 | | |
| 1.71 | -2.62 | -0.87 | | |
| 1.68 | -2.96 | -1.19 | | |
| 1.63 | 0.02 | 1.84 | | |
| 1.53 | -1.7 | 0.2 | | |
| 1.47 | 0.3 | 2.27 | | |
| 1.46 | -4.69 | -2.72 | | |
| 1.43 | -6.29 | -4.29 | | |
| 1.39 | -3.75 | -1.7 | | |
| 1.36 | -5.35 | -3.27 | | |
| 1.3 | 0.11 | 2.25 | | |
| 1.29 | -0.59 | 1.56 | | |
| 1.23 | -0.28 | 1.95 | | |
| 1.22 | -1.23 | 1 | | |
| 1.17 | -4.16 | -1.88 | | |
| 1.12 | -0.12 | 2.23 | | |
| 1.11 | -3.33 | -0.96 | | |
| 1.1 | -1.6 | 0.78 | | |
| 1.01 | -4.09 | -1.59 | | |
| 1.01 | -6.36 | -3.85 | | |
| -1 | 2.07 | 4.6 | | |
| -1.06 | -3.81 | -1.21 | | |
| -1.07 | -2.5 | 0.12 | | |
| -1.11 | -0.37 | 2.29 | | |
| -1.11 | -4.11 | -1.45 | | |
| -1.41 | -3.3 | -0.29 | | |
| 1.55 | -3.39 | -4.91 | | |
| 1.12 | -3.05 | -4.1 | | |
| 1.1 | -2.97 | -3.99 | | |
| -3.71 | -1.63 | -0.63 | | |
| -3.8 | -1.47 | -0.43 | | |
| -4.24 | -2.99 | -1.79 | | |
| -7.85 | -2.79 | -0.71 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.86 | -1.27 | -2.79 | | |
| 1.45 | -1.88 | -3.05 | | |
| 1.37 | -2.16 | -3.24 | | |
| 1.36 | -0.18 | -1.25 | | |
| 1.71 | -1.64 | -3.16 | | |
| 1.65 | -2.99 | -4.46 | | |
| 1.44 | -3.73 | -5 | | |
| 1.37 | -5.29 | -6.5 | | |
| 1.24 | 0.04 | -1.01 | | |
| 1.22 | -2.62 | -3.65 | | |
| 1.19 | -4.77 | -5.77 | | |
| 1.82 | -1.53 | -3.06 | | |
| 1.68 | 3.66 | 2.26 | | |
| -3.14 | -0.65 | 0.35 | | |
| -4.45 | -2.76 | -1.26 | | |
| 2.47 | -1.72 | -3.24 | | |
| -2.47 | -3.43 | -2.35 | | |
| 2.08 | 0.62 | -0.9 | | |
| 1.57 | -1.65 | -2.76 | | |
| 3.46 | 0.08 | -1.44 | | |
| -1.99 | -2.33 | -1.07 | | |
| -2.28 | -1.83 | -0.37 | | |
| 1.58 | -2.11 | -3.63 | | |
| 1.5 | 0.64 | -0.8 | | |
| 1.18 | -1.52 | -2.62 | | |
| 2.08 | -0.2 | -1.72 | | |
| 1.59 | -0.25 | -1.38 | | |
| 1.57 | 0.81 | -0.31 | | |
| -3.42 | -1.18 | 0.13 | | |
| -3.5 | -0.67 | 0.68 | | |
| -3.77 | -1 | 0.45 | | |
| -4.47 | -3.34 | -1.65 | | |
| -4.78 | -0.55 | 1.25 | | |
| -6.42 | -3.21 | -0.99 | | |
| -25.02 | -4.58 | -0.4 | | |
| 1.5 | 0.63 | -0.89 | | |
| 1.36 | -0.04 | -1.42 | | |
| 1.34 | -0.3 | -1.66 | | |
| 1.31 | -3.13 | -4.45 | | |
| 1.3 | -0.2 | -1.52 | | |
| 1.28 | -1.5 | -2.79 | | |
| 1.24 | 0.81 | -0.43 | | |
| 1.22 | 1.82 | 0.6 | | |
| 1.2 | 2.39 | 1.19 | | |
| 1.14 | 1.16 | 0.04 | | |
| 1.13 | -1.12 | -2.23 | | |
| 1.1 | -0.02 | -1.09 | | |
| 1.06 | 0.65 | -0.37 | | |
| 1.06 | 0.56 | -0.46 | | |
| -5.46 | -1.74 | -0.22 | | |
| 1.71 | -1.84 | -3.36 | | |
| 1.58 | -3.73 | -5.13 | | |
| 1.29 | -4.02 | -5.13 | | |
| 1.24 | -2.88 | -3.93 | | |
| 1.2 | -0.52 | -1.53 | | |
| 3.07 | -5.9 | -7.42 | | |
| 2.35 | -2.65 | -3.78 | | |
| 2.31 | -2.13 | -3.24 | | |

| | | | | |
|-------|-------|-------|--|--|
| 17.6 | 1.09 | -0.42 | | |
| 17.39 | 1.51 | 0.02 | | |
| 14.33 | 0.99 | -0.23 | | |
| 13.85 | 1.43 | 0.26 | | |
| 2.97 | -1.54 | -0.48 | | |
| 2.42 | 3.06 | 4.41 | | |
| 2.23 | -0.68 | 0.79 | | |
| 1.69 | -1.27 | 0.6 | | |
| 1.63 | -1.79 | 0.13 | | |
| 1.48 | -2.16 | -0.1 | | |
| 1.25 | -2.65 | -0.36 | | |
| 1.04 | 3.38 | 5.94 | | |
| -1.21 | -2.23 | 0.66 | | |
| 11.81 | -1.99 | -3.5 | | |
| 10.86 | -1.39 | -2.79 | | |
| 8.87 | -0.06 | -1.17 | | |
| 8.67 | -0.96 | -2.03 | | |
| 1.96 | -0.77 | 0.31 | | |
| 1.88 | 0.52 | 1.66 | | |
| 1.86 | 1.23 | 2.38 | | |
| 1.66 | -1.97 | -0.66 | | |
| 1.64 | 0.99 | 2.32 | | |
| 1.64 | 0.39 | 1.72 | | |
| 1.62 | -2.67 | -1.32 | | |
| 1.55 | -2.36 | -0.95 | | |
| 1.48 | -0.42 | 1.06 | | |
| 1.46 | -0.23 | 1.27 | | |
| 1.43 | -0.21 | 1.33 | | |
| 1.33 | -0.01 | 1.62 | | |
| 1.33 | -1.18 | 0.45 | | |
| 1.3 | -2.49 | -0.82 | | |
| 1.28 | -3.6 | -1.91 | | |
| 1.27 | -2.7 | -1 | | |
| 1.23 | -3.12 | -1.37 | | |
| 1.23 | 0.3 | 2.05 | | |
| 1.18 | -3.09 | -1.29 | | |
| 1.18 | -1.11 | 0.7 | | |
| 1.17 | -0.75 | 1.07 | | |
| 1.14 | 0.58 | 2.44 | | |
| 1.05 | -2 | -0.03 | | |
| 1.04 | -1.65 | 0.34 | | |
| 1.02 | -3.15 | -1.14 | | |
| 1.01 | -1.26 | 0.76 | | |
| 1.01 | 0.13 | 2.15 | | |
| -1.02 | 0.97 | 3.04 | | |
| -1.05 | -1.76 | 0.36 | | |
| -1.06 | -3.37 | -1.24 | | |
| -1.09 | -0.65 | 1.52 | | |
| -1.13 | 2.38 | 4.6 | | |
| -1.14 | 3.09 | 5.33 | | |
| -1.17 | -0.87 | 1.4 | | |
| -1.18 | 2.93 | 5.22 | | |
| -1.19 | -3.62 | -1.32 | | |
| -1.28 | -3.38 | -0.98 | | |
| -1.28 | -2.44 | -0.04 | | |
| -1.31 | -2.36 | 0.07 | | |
| -1.53 | -2.25 | 0.41 | | |
| -1.63 | -5.25 | -2.49 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.76 | -5.7 | -2.84 | | |
| -2.28 | -3.45 | -0.21 | | |
| -2.87 | -3.13 | 0.43 | | |
| -2.93 | -4.76 | -1.16 | | |
| 2.55 | -5.07 | -6.58 | | |
| -2.4 | -7.45 | -6.35 | | |
| 1.74 | 0.39 | -1.12 | | |
| -3.3 | -0.55 | 0.46 | | |
| -4.52 | -1.64 | -0.18 | | |
| -4.82 | -3.18 | -1.63 | | |
| -4.97 | -2.19 | -0.59 | | |
| -5.52 | -1.21 | 0.54 | | |
| -8.84 | -3.88 | -1.46 | | |
| -9.46 | -1.06 | 1.46 | | |
| -39.7 | -4.56 | 0.04 | | |
| 1.95 | 0.55 | -0.96 | | |
| 1.51 | -0.9 | -2.04 | | |
| 1.46 | -5.98 | -7.07 | | |
| 1.72 | -1.85 | -3.37 | | |
| 1.23 | -2.92 | -3.96 | | |
| 3.21 | -0.75 | -2.26 | | |
| -1.82 | -1.11 | -0.08 | | |
| -1.96 | -1.22 | -0.09 | | |
| 3.26 | 1.65 | 0.13 | | |
| -2.06 | -1.01 | 0.22 | | |
| 3.32 | 2.65 | 1.14 | | |
| 2.82 | 5.83 | 4.55 | | |
| 2.78 | 1.42 | 0.16 | | |
| 2.78 | 1.42 | 0.16 | | |
| 2.78 | 1.42 | 0.16 | | |
| 2.53 | -1.26 | -2.39 | | |
| -1.99 | -2.87 | -1.66 | | |
| -2.23 | -1.03 | 0.34 | | |
| 1.15 | -0.18 | -1.7 | | |
| 1.13 | -3.06 | -4.55 | | |
| -9.26 | -3.84 | -1.95 | | |
| 1.14 | -3.68 | -5.19 | | |
| 1.01 | -3.04 | -4.38 | | |
| -1.03 | -3.71 | -4.99 | | |
| -5.13 | -1.4 | -0.38 | | |
| 5.09 | -2.91 | -4.43 | | |
| -1.19 | 1.14 | 2.22 | | |
| -1.21 | -1.88 | -0.77 | | |
| 1.41 | -3.88 | -5.4 | | |
| 1.38 | -5.61 | -7.1 | | |
| 1.13 | -3.13 | -4.33 | | |
| -1.01 | -5.55 | -6.56 | | |
| -10.06 | -7.46 | -5.15 | | |
| 3.55 | -0.66 | -2.17 | | |
| -1.69 | -0.37 | 0.71 | | |
| -2.65 | -3.05 | -1.32 | | |
| 5.17 | 1.13 | -0.38 | | |
| -1.34 | -4.33 | -3.04 | | |
| -1.43 | -3.81 | -2.44 | | |
| 1.96 | 0.75 | -0.76 | | |
| 1.85 | 0.01 | -1.42 | | |
| 1.56 | -0.16 | -1.34 | | |
| 1.42 | 3.26 | 2.21 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.4 | 0.7 | -0.32 | | |
| 1.21 | -3.91 | -5.42 | | |
| 1.02 | -6.11 | -7.38 | | |
| 1.01 | -2.14 | -3.39 | | |
| -1 | -1.99 | -3.23 | | |
| -1 | -0.13 | -1.36 | | |
| -1.03 | 0.46 | -0.74 | | |
| -1.05 | 2.54 | 1.36 | | |
| -1.08 | -5.46 | -6.59 | | |
| -1.09 | 0.42 | -0.69 | | |
| -1.11 | -6.32 | -7.41 | | |
| -1.13 | -5.16 | -6.23 | | |
| -6.59 | -3.49 | -2.01 | | |
| 6.05 | -1.59 | -3.1 | | |
| 1.05 | -1.7 | -0.69 | | |
| 1.02 | -2.59 | -1.53 | | |
| -1.04 | -1.56 | -0.42 | | |
| -1.11 | -4.19 | -2.96 | | |
| -1.3 | -4.55 | -3.09 | | |
| 2 | -0.32 | -1.83 | | |
| -3.75 | -1.56 | -0.16 | | |
| -15.24 | -1.25 | 2.17 | | |
| 2.58 | -0.32 | -1.83 | | |
| -3.48 | -1.61 | 0.05 | | |
| 2.81 | 2.8 | 1.28 | | |
| 2.19 | 3.35 | 2.19 | | |
| 2.11 | 1.21 | 0.11 | | |
| -2.74 | -2.8 | -1.37 | | |
| 3.82 | 4.4 | 2.89 | | |
| 2.93 | 2.81 | 1.68 | | |
| 2.75 | 3.92 | 2.88 | | |
| 1.29 | 2.93 | 1.42 | | |
| 1.21 | -0.28 | -1.69 | | |
| 1.11 | -0.21 | -1.5 | | |
| 1.09 | 1 | -0.25 | | |
| -1.03 | -1.3 | -2.39 | | |
| -1.1 | 0.59 | -0.41 | | |
| 1.67 | -0.06 | -1.57 | | |
| 1.45 | -2.25 | -3.56 | | |
| 1.21 | -0.52 | -1.56 | | |
| 1.2 | -1.05 | -2.08 | | |
| 1.12 | 1.56 | 0.05 | | |
| -1.08 | 3.83 | 2.59 | | |
| -1.2 | 2.7 | 1.62 | | |
| -1.23 | -1.77 | -2.81 | | |
| -5.72 | -2.86 | -1.7 | | |
| -6.03 | -1.94 | -0.7 | | |
| -8.17 | -3.36 | -1.67 | | |
| 2.62 | 1.19 | -0.32 | | |
| 2.39 | -1.99 | -3.36 | | |
| -2.36 | -2.95 | -1.83 | | |
| 3.35 | -3.36 | -4.87 | | |
| -1.72 | -4.02 | -3 | | |
| -1.83 | -3.85 | -2.74 | | |
| -1.92 | -3.43 | -2.25 | | |
| -3.83 | -4.61 | -2.44 | | |
| 1.26 | 0.48 | -1.02 | | |
| 1.04 | -1.31 | -2.53 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.08 | 2.95 | 1.89 | | |
| -1.08 | 1.44 | 0.39 | | |
| 2.37 | -3.33 | -4.84 | | |
| 1.7 | -3.96 | -4.99 | | |
| -2.56 | -0.91 | 0.18 | | |
| -2.88 | -3.9 | -2.63 | | |
| 2.63 | -2.8 | -4.31 | | |
| -2.42 | -4.11 | -2.94 | | |
| -3.06 | -3.36 | -1.86 | | |
| 1.81 | -1.5 | -3.01 | | |
| 1.46 | -4.81 | -6.01 | | |
| 1.41 | -3.71 | -4.85 | | |
| 1.35 | -3.84 | -4.93 | | |
| 1.35 | 0.36 | -0.73 | | |
| 1.34 | -2.4 | -3.48 | | |
| 1.32 | 0.8 | -0.26 | | |
| 1.29 | -1.48 | -2.5 | | |
| -3.45 | -3.88 | -2.74 | | |
| -3.59 | -3.23 | -2.03 | | |
| -3.71 | -3.92 | -2.68 | | |
| -3.84 | -3.71 | -2.42 | | |
| -6.09 | -4.86 | -2.91 | | |
| 1.87 | -0.51 | -2.01 | | |
| 1.36 | 2.58 | 1.54 | | |
| 1.35 | 2.64 | 1.6 | | |
| -3.24 | -2.34 | -1.24 | | |
| -3.33 | -1.96 | -0.83 | | |
| -3.96 | -2.54 | -1.15 | | |
| -4.16 | -2.78 | -1.32 | | |
| -4.51 | -3.36 | -1.79 | | |
| 2.21 | 0.01 | -1.5 | | |
| 2.11 | 0.03 | -1.4 | | |
| 1.91 | 0.16 | -1.13 | | |
| 1.78 | 0.62 | -0.57 | | |
| -2.66 | 0.73 | 1.78 | | |
| -3.27 | -1.16 | 0.19 | | |
| -3.3 | 0.22 | 1.58 | | |
| -3.85 | -0.84 | 0.75 | | |
| 4.81 | -1.78 | -3.29 | | |
| 4.61 | 0.98 | -0.47 | | |
| 3.87 | 0.6 | -0.6 | | |
| 3.6 | -0.53 | -1.62 | | |
| 3.46 | -0.99 | -2.02 | | |
| -1.19 | 3.84 | 4.85 | | |
| -1.19 | -3.19 | -2.18 | | |
| -1.25 | 2.58 | 3.66 | | |
| -1.25 | -1.88 | -0.8 | | |
| -1.33 | -0.39 | 0.79 | | |
| -1.36 | 3.61 | 4.81 | | |
| -1.49 | -2.94 | -1.6 | | |
| -1.51 | -1.02 | 0.33 | | |
| -1.77 | -0.1 | 1.47 | | |
| -1.79 | 0.58 | 2.18 | | |
| 1.21 | 4.82 | 3.32 | | |
| 1.01 | -3.03 | -4.27 | | |
| 1.21 | 0.74 | -0.77 | | |
| 1.17 | 0.63 | -0.83 | | |
| -1.07 | -0.72 | -1.86 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.9 | 1.5 | 0 | | |
| 1.34 | 1.32 | 0.31 | | |
| -3.12 | -1.16 | -0.1 | | |
| -3.63 | -2.61 | -1.33 | | |
| -3.74 | -1.28 | 0.04 | | |
| -3.74 | 0 | 1.32 | | |
| -3.91 | -1.94 | -0.56 | | |
| -4.07 | -3.01 | -1.57 | | |
| -4.23 | 0.03 | 1.53 | | |
| -8.09 | -4.35 | -1.91 | | |
| 1.95 | 0.47 | -1.04 | | |
| 1.63 | 2.21 | 0.96 | | |
| 2.15 | -2.34 | -3.84 | | |
| 1.75 | -3.98 | -5.19 | | |
| 1.71 | -3.65 | -4.82 | | |
| 1.59 | 0.05 | -1.02 | | |
| 1.59 | -4.5 | -5.56 | | |
| 1.91 | 0.92 | -0.59 | | |
| 1.43 | 2.52 | 1.44 | | |
| 1.42 | 3.86 | 2.78 | | |
| 1.41 | 1.97 | 0.91 | | |
| 1.35 | 1.5 | 0.49 | | |
| 2.08 | -4.32 | -5.82 | | |
| 1.57 | -5.79 | -6.88 | | |
| 1.53 | -2.36 | -3.42 | | |
| 5.94 | 1.25 | -0.25 | | |
| 4.79 | -0.74 | -1.93 | | |
| -1.1 | -1.48 | -0.28 | | |
| -1.1 | -0.27 | 0.94 | | |
| -1.27 | -3.69 | -2.28 | | |
| -1.65 | 0.26 | 2.05 | | |
| -1.96 | -1.25 | 0.79 | | |
| 2.1 | -0.76 | -2.26 | | |
| 1.79 | -2.4 | -3.66 | | |
| 1.73 | 1.78 | 0.56 | | |
| 1.49 | -0.4 | -1.4 | | |
| 10.56 | 1.79 | 0.29 | | |
| 7.68 | 1.21 | 0.16 | | |
| 1.7 | -2.74 | -1.61 | | |
| 1.66 | -1.93 | -0.77 | | |
| 1.63 | 1.7 | 2.89 | | |
| 1.61 | 0.13 | 1.34 | | |
| 1.58 | -0.36 | 0.87 | | |
| 1.44 | 0.62 | 2 | | |
| 1.43 | -0.55 | 0.83 | | |
| 1.34 | -2.56 | -1.08 | | |
| 1.25 | -2.52 | -0.94 | | |
| 1.24 | -0.43 | 1.15 | | |
| 1.22 | 1.53 | 3.14 | | |
| 1.21 | 0.85 | 2.47 | | |
| 1.18 | -3.07 | -1.41 | | |
| 1.09 | -3.6 | -1.84 | | |
| 1.06 | -0.6 | 1.21 | | |
| 1.04 | -0.79 | 1.05 | | |
| -1.02 | -0.62 | 1.31 | | |
| -1.05 | -2.43 | -0.46 | | |
| -1.08 | -3.58 | -1.57 | | |
| -1.11 | -2.07 | -0.02 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.13 | -3.06 | -0.99 | | |
| -1.34 | -2.15 | 0.16 | | |
| 2.01 | 1.97 | 0.47 | | |
| 1.92 | 7.43 | 5.99 | | |
| 1.76 | -0.39 | -1.7 | | |
| 1.73 | -0.53 | -1.81 | | |
| 1.63 | 2.24 | 1.05 | | |
| 1.42 | -0.29 | -1.29 | | |
| -2.87 | 0.84 | 1.87 | | |
| 2.06 | -0.3 | -1.81 | | |
| 1.91 | -4.3 | -5.69 | | |
| 1.78 | -4.84 | -6.13 | | |
| -4.51 | -4.37 | -2.66 | | |
| 2.06 | -0.3 | -1.81 | | |
| 1.91 | -4.3 | -5.69 | | |
| 1.78 | -4.84 | -6.13 | | |
| -4.51 | -4.37 | -2.66 | | |
| 2.06 | -0.3 | -1.81 | | |
| 1.91 | -4.3 | -5.69 | | |
| 1.78 | -4.84 | -6.13 | | |
| -4.51 | -4.37 | -2.66 | | |
| 26.37 | -1.26 | -2.76 | | |
| 3.8 | -5.65 | -4.36 | | |
| 3.43 | -0.49 | 0.95 | | |
| 2.84 | -3.35 | -1.63 | | |
| 2.02 | -3.81 | -1.6 | | |
| 1.59 | -4.67 | -2.11 | | |
| 1.43 | -7.14 | -4.43 | | |
| 1.23 | -3.67 | -0.74 | | |
| 1.14 | 1.15 | 4.18 | | |
| 1.1 | -0.74 | 2.34 | | |
| 1.01 | -4.94 | -1.73 | | |
| 1.71 | 0.14 | -1.36 | | |
| 1.62 | 0.61 | -0.81 | | |
| 1.29 | -2.93 | -4.02 | | |
| 1.3 | -0.03 | -1.12 | | |
| 1.26 | 1.25 | 0.19 | | |
| 1.25 | -0.04 | -1.08 | | |
| 1.22 | 3.36 | 2.35 | | |
| 1.22 | -1.63 | -2.63 | | |
| -3.66 | -2.74 | -1.58 | | |
| 1.88 | 1.35 | -0.14 | | |
| 1.66 | 2.89 | 1.58 | | |
| 1.65 | 2.1 | 0.79 | | |
| 1.56 | -2.61 | -3.83 | | |
| 1.54 | -1.84 | -3.04 | | |
| 1.36 | -2.78 | -3.81 | | |
| -3.03 | 0.34 | 1.36 | | |
| -3.06 | 0.32 | 1.35 | | |
| -3.18 | -0.12 | 0.97 | | |
| -4.13 | -1.68 | -0.22 | | |
| -8.14 | -3.06 | -0.62 | | |
| 1.81 | -2.4 | -3.9 | | |
| 1.79 | 0.78 | -0.7 | | |
| 1.61 | 0.08 | -1.25 | | |
| 1.39 | 0.98 | -0.14 | | |
| 1.37 | 1.11 | 0.01 | | |
| 1.48 | 2.32 | 0.82 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.17 | -2.72 | -3.88 | | |
| 1.09 | 2.22 | 1.16 | | |
| 1.06 | 1.22 | 0.2 | | |
| -4.16 | -2.67 | -1.54 | | |
| 1.86 | -1.24 | -2.74 | | |
| 1.5 | -1.87 | -3.05 | | |
| 1.48 | 0.62 | -0.54 | | |
| 1.42 | -2.54 | -3.65 | | |
| 1.37 | -1.03 | -2.09 | | |
| 3.53 | -4.46 | -5.95 | | |
| 3.32 | 3.27 | 1.86 | | |
| 2.57 | -0.56 | -2.05 | | |
| -2.35 | -1.93 | -0.83 | | |
| -2.37 | -0.93 | 0.18 | | |
| -2.56 | -0.03 | 1.19 | | |
| -2.74 | -1.14 | 0.18 | | |
| 2.62 | 4.33 | 2.83 | | |
| -3.15 | -3.35 | -1.81 | | |
| -3.56 | -3.45 | -1.73 | | |
| 2.18 | 1.2 | -0.3 | | |
| 1.88 | 1.07 | -0.22 | | |
| 1.72 | 4.23 | 3.07 | | |
| 1.6 | -1.29 | -2.79 | | |
| 1.49 | -2.53 | -3.92 | | |
| 1.47 | -3.41 | -4.79 | | |
| 1.31 | -3.14 | -4.35 | | |
| 1.2 | -3.01 | -4.09 | | |
| 1.17 | -2.84 | -3.88 | | |
| 1.14 | -3.87 | -4.87 | | |
| 1.83 | -2.97 | -4.46 | | |
| 1.41 | -2.28 | -3.4 | | |
| 1.34 | 1.49 | 0.43 | | |
| 1.33 | 0.91 | -0.12 | | |
| 1.53 | 0.68 | -0.81 | | |
| 1.44 | 2.1 | 0.69 | | |
| 1.37 | 0.99 | -0.35 | | |
| 1.3 | 2.49 | 1.23 | | |
| 1.24 | 5.85 | 4.66 | | |
| 1.22 | 3.46 | 2.29 | | |
| 1.19 | -0.07 | -1.21 | | |
| 1.18 | -1.13 | -2.25 | | |
| 1.17 | 1.77 | 0.65 | | |
| 1.11 | 1.66 | 0.63 | | |
| -3.74 | -0.94 | 0.08 | | |
| -3.89 | -1.68 | -0.6 | | |
| -4.24 | -0.42 | 0.78 | | |
| -4.43 | -1.14 | 0.13 | | |
| -4.57 | -1.8 | -0.49 | | |
| -4.59 | -0.97 | 0.35 | | |
| -4.64 | -0.52 | 0.81 | | |
| -4.71 | -1.25 | 0.11 | | |
| -5.17 | -1.71 | -0.22 | | |
| -5.44 | -1.99 | -0.43 | | |
| -5.58 | -0.39 | 1.21 | | |
| -5.57 | -0.52 | 1.07 | | |
| -6.49 | -0.14 | 1.68 | | |
| -6.61 | -2.12 | -0.28 | | |
| 1.5 | 0.17 | -1.32 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.38 | -0.93 | -2.31 | | |
| 1.36 | -0.51 | -1.87 | | |
| 1.32 | 1.27 | -0.05 | | |
| 1.3 | 0.16 | -1.14 | | |
| 1.23 | 1.54 | 0.32 | | |
| 1.16 | 1.02 | -0.11 | | |
| 1.12 | 0.21 | -0.87 | | |
| 1.12 | 4.48 | 3.4 | | |
| 1.09 | -1.77 | -2.82 | | |
| 1.08 | -0.73 | -1.76 | | |
| 1.08 | 3.99 | 2.97 | | |
| -3.87 | -0.32 | 0.72 | | |
| -3.91 | -0.3 | 0.76 | | |
| -4.1 | -0.18 | 0.94 | | |
| -6.53 | -1.57 | 0.22 | | |
| 1.69 | 0.21 | -1.28 | | |
| 1.36 | -0.68 | -1.87 | | |
| -4.62 | -1.72 | -0.25 | | |
| -5.53 | -2.91 | -1.19 | | |
| -6.47 | -2.97 | -1.02 | | |
| 1.42 | 2.13 | 0.64 | | |
| 1.33 | 1.07 | -0.32 | | |
| 1.31 | 0.16 | -1.22 | | |
| 1.29 | 2.35 | 1 | | |
| 1.23 | 1.74 | 0.45 | | |
| 1.22 | 2.95 | 1.67 | | |
| 1.17 | 1.07 | -0.15 | | |
| 1.11 | 0.53 | -0.61 | | |
| 1.1 | 4.16 | 3.04 | | |
| 1.09 | 2.61 | 1.49 | | |
| 1.09 | 2.12 | 1 | | |
| 1.07 | 3.76 | 2.67 | | |
| 1.04 | 3.2 | 2.16 | | |
| 1.04 | 0.05 | -0.99 | | |
| -4.1 | -1.39 | -0.34 | | |
| -4.33 | -0.17 | 0.96 | | |
| -4.85 | -2.32 | -1.03 | | |
| -5.66 | -1.58 | -0.07 | | |
| -5.7 | -3.09 | -1.57 | | |
| -7.3 | -2.1 | -0.22 | | |
| -7.98 | -3.33 | -1.32 | | |
| -8.68 | -1.93 | 0.2 | | |
| -9.79 | -2.97 | -0.67 | | |
| -13.03 | -2.81 | -0.09 | | |
| -13.11 | -1.58 | 1.14 | | |
| 1.87 | -3 | -4.49 | | |
| -3.03 | -3.52 | -2.51 | | |
| 1.8 | -3.4 | -4.89 | | |
| 1.58 | -4.51 | -5.82 | | |
| -3.73 | -3.25 | -2 | | |
| -5.65 | -4.63 | -2.77 | | |
| 1.91 | -0.69 | -2.18 | | |
| 1.48 | -0.91 | -2.04 | | |
| 3.73 | -0.43 | -1.92 | | |
| 3.55 | -0.11 | -1.52 | | |
| 2.86 | -1.35 | -2.46 | | |
| 2.79 | -1.55 | -2.62 | | |
| -1.56 | 0.8 | 1.85 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.6 | -1.42 | -0.33 | | |
| 1.92 | -3.6 | -5.1 | | |
| -3.3 | -2.73 | -1.56 | | |
| -4.55 | -3.01 | -1.38 | | |
| -4.8 | -0.9 | 0.81 | | |
| 2.81 | 5.1 | 3.61 | | |
| 2.78 | 0.06 | -1.42 | | |
| 2.7 | 1.3 | -0.13 | | |
| 2.47 | 5.83 | 4.52 | | |
| 2.23 | 5.62 | 4.46 | | |
| 1.55 | 3.95 | 2.46 | | |
| -3.87 | 2.07 | 3.17 | | |
| -7.34 | 1.29 | 3.31 | | |
| 1.39 | 4.46 | 2.97 | | |
| 1.25 | 3.85 | 2.52 | | |
| 1.14 | 2.1 | 0.9 | | |
| 1.01 | 1.24 | 0.21 | | |
| 1.58 | 2.38 | 0.89 | | |
| 1.47 | 1.13 | -0.26 | | |
| 1.43 | 0.12 | -1.23 | | |
| 1.27 | 1.44 | 0.27 | | |
| 1.21 | -0.85 | -1.96 | | |
| 1.18 | 3.21 | 2.14 | | |
| 1.15 | 0.03 | -1.01 | | |
| -3.77 | -0.55 | 0.53 | | |
| -6.02 | -2.89 | -1.13 | | |
| 1.42 | -3.71 | -5.2 | | |
| 1.25 | -1.38 | -2.69 | | |
| 1.2 | 2.47 | 1.22 | | |
| 1.13 | 1.71 | 0.55 | | |
| 1.09 | 0.35 | -0.75 | | |
| 1.08 | 3.39 | 2.29 | | |
| 1.03 | 3.34 | 2.32 | | |
| -4.51 | -3.95 | -2.76 | | |
| -6.3 | -3.81 | -2.14 | | |
| 2.66 | 3.08 | 1.59 | | |
| 2.07 | 0.88 | -0.25 | | |
| 3.24 | 1.14 | -0.35 | | |
| -1.88 | -4.78 | -3.67 | | |
| -1.98 | -3.72 | -2.54 | | |
| -2.19 | -3.68 | -2.34 | | |
| -2.37 | -4.94 | -3.49 | | |
| -2.42 | -4.19 | -2.72 | | |
| 1.59 | 1.25 | -0.24 | | |
| 1.54 | 6.32 | 4.88 | | |
| 1.42 | 1.33 | 0 | | |
| 1.15 | 2.15 | 1.13 | | |
| 1.33 | 0.85 | -0.64 | | |
| 1.07 | 2.71 | 1.53 | | |
| 1.07 | 1.72 | 0.54 | | |
| -1.04 | -3.11 | -4.13 | | |
| -4.32 | -0.47 | 0.56 | | |
| -6.33 | -2.91 | -1.33 | | |
| 1.7 | -1.76 | -3.25 | | |
| 1.46 | -3.89 | -5.16 | | |
| 1.39 | -1.79 | -2.99 | | |
| 1.27 | -3.97 | -5.04 | | |
| 1.26 | -2.79 | -3.86 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.23 | -3.59 | -4.62 | | |
| 1.23 | -3.77 | -4.79 | | |
| -3.59 | -6.65 | -5.53 | | |
| 1.49 | 2.54 | 1.05 | | |
| 1.25 | 1.92 | 0.69 | | |
| 1.15 | 0.84 | -0.28 | | |
| 1.12 | -0.62 | -1.68 | | |
| -3.89 | 2.68 | 3.73 | | |
| -4.03 | 0.87 | 1.97 | | |
| 4.02 | 0.36 | -1.12 | | |
| 2.98 | -0.03 | -1.09 | | |
| -1.39 | 0.48 | 1.47 | | |
| 1.68 | 0.69 | -0.79 | | |
| 1.57 | 1.86 | 0.47 | | |
| 1.26 | 0.24 | -0.83 | | |
| -3.33 | -0.74 | 0.26 | | |
| -3.51 | -3.28 | -2.21 | | |
| -3.68 | -0.89 | 0.25 | | |
| -4.16 | -1.71 | -0.39 | | |
| 5.58 | -2.24 | -3.73 | | |
| -1.03 | 3.34 | 4.38 | | |
| -1.05 | 3.43 | 4.49 | | |
| -1.05 | -0.06 | 1 | | |
| -1.06 | 3.26 | 4.35 | | |
| -1.1 | 3.49 | 4.62 | | |
| -1.12 | 2.62 | 3.78 | | |
| 4.27 | -3.26 | -4.74 | | |
| -1.37 | -3.23 | -2.17 | | |
| -1.45 | -2.87 | -1.72 | | |
| -1.81 | -4.72 | -3.26 | | |
| -1.96 | -0.91 | 0.67 | | |
| 1.53 | -2.26 | -3.74 | | |
| 1.48 | 4.25 | 2.81 | | |
| 1.34 | 3.51 | 2.21 | | |
| 1.31 | 3.83 | 2.56 | | |
| 1.32 | 4.41 | 3.14 | | |
| 1.1 | -2.71 | -3.72 | | |
| 11.06 | 0.84 | -0.64 | | |
| 8.81 | -0.33 | -1.48 | | |
| 8.01 | 1.63 | 0.61 | | |
| 1.72 | -1.54 | -0.34 | | |
| 1.62 | 0.17 | 1.46 | | |
| 1.62 | -1.96 | -0.67 | | |
| 1.58 | -3.53 | -2.21 | | |
| 1.5 | -1.67 | -0.28 | | |
| 1.37 | -4.41 | -2.88 | | |
| 1.34 | -2.81 | -1.25 | | |
| 1.21 | 1.7 | 3.41 | | |
| 1.17 | -3.46 | -1.71 | | |
| 1.17 | -3.41 | -1.65 | | |
| 1.02 | 0.52 | 2.47 | | |
| -1.02 | -2.12 | -0.1 | | |
| -1.37 | -3.58 | -1.15 | | |
| -1.37 | -2.99 | -0.55 | | |
| -2.24 | -2.72 | 0.43 | | |
| 2.65 | -5.28 | -6.76 | | |
| -2.48 | -5.06 | -3.82 | | |
| -3.87 | -6.67 | -4.8 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.46 | -1.91 | -3.4 | | |
| 2.6 | 2.89 | 1.81 | | |
| 2.47 | -0.16 | -1.16 | | |
| -1.62 | -1.83 | -0.83 | | |
| -1.66 | -2.58 | -1.55 | | |
| -2 | -3.82 | -2.52 | | |
| -2 | -2.7 | -1.39 | | |
| 3.21 | 3.41 | 1.93 | | |
| -1.99 | 0.86 | 2.05 | | |
| -3.93 | -1.98 | 0.19 | | |
| 1.54 | 4.01 | 2.52 | | |
| 1.32 | -0.13 | -1.4 | | |
| 3.9 | -0.64 | -2.13 | | |
| 2.88 | 2.26 | 1.21 | | |
| -1.46 | -4.44 | -3.41 | | |
| -1.46 | -2.67 | -1.65 | | |
| -1.52 | -5.13 | -4.05 | | |
| -2.16 | -4.88 | -3.28 | | |
| 2.09 | -1.38 | -2.87 | | |
| 1.7 | -1 | -2.19 | | |
| -2.71 | 0.08 | 1.1 | | |
| 2.22 | -2.5 | -3.99 | | |
| 1.61 | -1.34 | -2.37 | | |
| 2.89 | -1.97 | -3.45 | | |
| 2.28 | -1.74 | -2.88 | | |
| 2.65 | -6.11 | -7.59 | | |
| -2.97 | -6.74 | -5.25 | | |
| -3.39 | -5.43 | -3.75 | | |
| 2.2 | -2.13 | -3.61 | | |
| 1.82 | 2.63 | 1.41 | | |
| -2.6 | -1.24 | -0.22 | | |
| -2.66 | -2.75 | -1.69 | | |
| -3.07 | -1.89 | -0.62 | | |
| -3.52 | -4 | -2.53 | | |
| -4 | -0.87 | 0.78 | | |
| -4.03 | -2.41 | -0.75 | | |
| -4.24 | -2.9 | -1.16 | | |
| -6.31 | -2.71 | -0.4 | | |
| 2.63 | -0.14 | -1.62 | | |
| 2.22 | -2.39 | -3.63 | | |
| 1.9 | 0.73 | -0.76 | | |
| 1.62 | 0.34 | -0.92 | | |
| 1.6 | -1.5 | -2.74 | | |
| 1.56 | -0.01 | -1.22 | | |
| 1.5 | -0.63 | -1.77 | | |
| 1.4 | 0.23 | -0.82 | | |
| 1.39 | -0.41 | -1.45 | | |
| 1.05 | -1.38 | -2.86 | | |
| 1.05 | 1.32 | -0.16 | | |
| 1.03 | 1.07 | -0.38 | | |
| -1.01 | -0.84 | -2.24 | | |
| -1.05 | -0.5 | -1.84 | | |
| -1.17 | -2.14 | -3.33 | | |
| -1.23 | -0.19 | -1.3 | | |
| 2.28 | -1.81 | -3.3 | | |
| 1.63 | 0.55 | -0.45 | | |
| 1.43 | -1.66 | -3.14 | | |
| 1.35 | -1.76 | -3.16 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.26 | 0.87 | -0.42 | | |
| 1.25 | -0.07 | -1.35 | | |
| 1.22 | 1.33 | 0.08 | | |
| 1.21 | 2.82 | 1.59 | | |
| 1.2 | -2.41 | -3.64 | | |
| 1.14 | -2.76 | -3.91 | | |
| 1.1 | -0.01 | -1.1 | | |
| 1.07 | -3.99 | -5.05 | | |
| -3.96 | -4.9 | -3.87 | | |
| -4.83 | -3.02 | -1.71 | | |
| -5.59 | -2.87 | -1.35 | | |
| 2.1 | 2.77 | 1.29 | | |
| 1.5 | 0.25 | -0.74 | | |
| 1.56 | -3.14 | -4.62 | | |
| 1.14 | 2.16 | 1.14 | | |
| 1.58 | 0.18 | -1.3 | | |
| 1.31 | -2.66 | -3.87 | | |
| 1.13 | -1.79 | -2.79 | | |
| 1.88 | -3.37 | -4.85 | | |
| -5.17 | -5.26 | -3.46 | | |
| 1.51 | -2.34 | -3.82 | | |
| 1.43 | -0.76 | -2.15 | | |
| 1.12 | -3.6 | -4.66 | | |
| 1.11 | -0.67 | -1.7 | | |
| -3.7 | -4.82 | -3.82 | | |
| -4.22 | -4.97 | -3.78 | | |
| 1.72 | -2.27 | -3.75 | | |
| 1.5 | -1.6 | -2.88 | | |
| 1.45 | 2.14 | 0.9 | | |
| 1.32 | -2.78 | -3.88 | | |
| 1.27 | -2.45 | -3.5 | | |
| 1.23 | -0.82 | -1.82 | | |
| 2.32 | 2.14 | 0.66 | | |
| 1.72 | 1.06 | 0.01 | | |
| 4.01 | -0.55 | -2.03 | | |
| 3.87 | -0.19 | -1.62 | | |
| 3.08 | -0.95 | -2.05 | | |
| -1.45 | -1.05 | 0.01 | | |
| -1.64 | -3 | -1.76 | | |
| 1.49 | -2.37 | -3.85 | | |
| -4.33 | -2.4 | -1.19 | | |
| -5.18 | -2.2 | -0.72 | | |
| 2.04 | 0.56 | -0.92 | | |
| 1.79 | 0.7 | -0.59 | | |
| 1.51 | 0.22 | -0.83 | | |
| -5.9 | -1.35 | 0.76 | | |
| 1.63 | -0.68 | -2.16 | | |
| 1.48 | -2.48 | -3.82 | | |
| 1.46 | -1.49 | -2.81 | | |
| 1.42 | -1.81 | -3.09 | | |
| 1.38 | -0.64 | -1.88 | | |
| 1.37 | 0.36 | -0.86 | | |
| 1.31 | 0.96 | -0.2 | | |
| 1.3 | -1.53 | -2.68 | | |
| 1.27 | -1.56 | -2.67 | | |
| 1.27 | 0.95 | -0.16 | | |
| -4.03 | -2.98 | -1.74 | | |
| -5.19 | -3.14 | -1.54 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.06 | -0.33 | -1.8 | | |
| 1.91 | -4.32 | -5.69 | | |
| 1.78 | -4.86 | -6.13 | | |
| -4.51 | -4.39 | -2.66 | | |
| 2.37 | 2.83 | 1.36 | | |
| -2.44 | -0.29 | 0.76 | | |
| -2.79 | -2.21 | -0.96 | | |
| 2.37 | 3.09 | 1.61 | | |
| -2.44 | -0.04 | 1.01 | | |
| -2.65 | -0.94 | 0.23 | | |
| -2.79 | -1.95 | -0.7 | | |
| 2.06 | -0.33 | -1.8 | | |
| 1.91 | -4.32 | -5.69 | | |
| 1.78 | -4.86 | -6.13 | | |
| -4.51 | -4.39 | -2.66 | | |
| 1.68 | 0.51 | -0.97 | | |
| 1.29 | -0.52 | -1.62 | | |
| 1.46 | 0.55 | -0.93 | | |
| -3.91 | -2.75 | -1.71 | | |
| -4.07 | -1.61 | -0.52 | | |
| -4.84 | -1.7 | -0.36 | | |
| 6.53 | -4.78 | -6.26 | | |
| 4.74 | -3.82 | -4.84 | | |
| 1.64 | 1.77 | 0.29 | | |
| -4.64 | -3.61 | -2.17 | | |
| 1.72 | -0.22 | -1.69 | | |
| 1.58 | -2.71 | -4.06 | | |
| 1.25 | -0.44 | -1.45 | | |
| -3.55 | -3.4 | -2.27 | | |
| 2.36 | -0.22 | -1.7 | | |
| 2.03 | 3.43 | 2.17 | | |
| 1.83 | -3.11 | -4.22 | | |
| 1.8 | 2.17 | 1.08 | | |
| 2.04 | -2.61 | -4.09 | | |
| 2.02 | -0.99 | -2.45 | | |
| 1.84 | -3.45 | -4.77 | | |
| 1.8 | -3.9 | -5.19 | | |
| 1.54 | 0.38 | -0.69 | | |
| -2.92 | -3.7 | -2.6 | | |
| 3.61 | 1.42 | -0.05 | | |
| 2.76 | 1.3 | 0.21 | | |
| -1.61 | -2.5 | -1.44 | | |
| -1.66 | -1.65 | -0.54 | | |
| 4.27 | -1.35 | -2.83 | | |
| 4.26 | -1.65 | -3.13 | | |
| -1.32 | -3.41 | -2.4 | | |
| -1.33 | -1.8 | -0.76 | | |
| -1.39 | -4.81 | -3.72 | | |
| -1.53 | -1.77 | -0.53 | | |
| -1.98 | -2.02 | -0.42 | | |
| 1.76 | 0.45 | -1.02 | | |
| 1.54 | 4.79 | 3.51 | | |
| 1.4 | 0.69 | -0.46 | | |
| -4.2 | -1.55 | -0.14 | | |
| 3.77 | 3.64 | 2.17 | | |
| -1.48 | -2.51 | -1.51 | | |
| 6.26 | -2.19 | -3.67 | | |
| 1.08 | -3.79 | -2.73 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.4 | -1.31 | -2.78 | | |
| 1.39 | -0.11 | -1.58 | | |
| 1.37 | 0.96 | -0.49 | | |
| 1.27 | 2.35 | 1.01 | | |
| 1.26 | 1.39 | 0.07 | | |
| 1.19 | 1.48 | 0.24 | | |
| 1.18 | 2.62 | 1.39 | | |
| 1.12 | 3.98 | 2.82 | | |
| 1.04 | -1.68 | -2.72 | | |
| 1.02 | -0.57 | -1.59 | | |
| -4.14 | -2.07 | -1.01 | | |
| -6.63 | -0.76 | 0.98 | | |
| 5.71 | -0.62 | -2.09 | | |
| 4.94 | -0.33 | -1.6 | | |
| -1.01 | 0.84 | 1.88 | | |
| -1.03 | 0.13 | 1.21 | | |
| -1.05 | -0.7 | 0.41 | | |
| -1.16 | 0.09 | 1.34 | | |
| 1.21 | 0.47 | -1.01 | | |
| 1.1 | 5.86 | 4.53 | | |
| 1.02 | -0.9 | -2.13 | | |
| 1.01 | 1.92 | 0.71 | | |
| -1.06 | 0.17 | -0.95 | | |
| -1.13 | -0.24 | -1.27 | | |
| -4.82 | -1.96 | -0.89 | | |
| -5.79 | -1.32 | 0.01 | | |
| 1.44 | 1.51 | 0.03 | | |
| 1.23 | 1.25 | 0 | | |
| 1.15 | 1.26 | 0.1 | | |
| 1.06 | 0.33 | -0.7 | | |
| -4.84 | -2.09 | -0.77 | | |
| -8.01 | -2.4 | -0.35 | | |
| -8.41 | -2.02 | 0.1 | | |
| -11.84 | -3.03 | -0.42 | | |
| 1.41 | -0.49 | -1.96 | | |
| 1.12 | -0.6 | -1.74 | | |
| 1.07 | 4.02 | 2.94 | | |
| 1.06 | 3.47 | 2.41 | | |
| 2.47 | 3.53 | 2.07 | | |
| -3.15 | -3.52 | -2.03 | | |
| 1.91 | -2 | -3.47 | | |
| 1.55 | -4.69 | -5.86 | | |
| 1.49 | -6.95 | -8.06 | | |
| 1.44 | -5.34 | -6.4 | | |
| 1.74 | -3.11 | -4.58 | | |
| 1.47 | -1.05 | -2.27 | | |
| 1.44 | -0.84 | -2.03 | | |
| 1.42 | -3.44 | -4.61 | | |
| 1.41 | -1.89 | -3.06 | | |
| 1.31 | -1.59 | -2.65 | | |
| 1.28 | -2.46 | -3.48 | | |
| 1.27 | -2.56 | -3.57 | | |
| 1.75 | -1.94 | -3.4 | | |
| 1.36 | -0.6 | -1.71 | | |
| 1.26 | -0.5 | -1.5 | | |
| 1.37 | 2.03 | 0.56 | | |
| 1.33 | 2.41 | 0.98 | | |
| 1.3 | 0.92 | -0.47 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.24 | 2.63 | 1.31 | | |
| 1.01 | 5.16 | 4.14 | | |
| -4.23 | -1.42 | -0.35 | | |
| -4.4 | -1.04 | 0.08 | | |
| -4.46 | -0.68 | 0.46 | | |
| 4.97 | -2.52 | -3.99 | | |
| 4.73 | -1.3 | -2.7 | | |
| -1.37 | -3.03 | -1.74 | | |
| -2.52 | -3.98 | -1.8 | | |
| 1.84 | -4.16 | -5.63 | | |
| 1.76 | -2.64 | -4.04 | | |
| -3.1 | -5.19 | -4.15 | | |
| -3.16 | -0.82 | 0.25 | | |
| -3.37 | -5.63 | -4.46 | | |
| -4.4 | -6.7 | -5.15 | | |
| 1.79 | 2.19 | 0.72 | | |
| 1.4 | 1.14 | 0.03 | | |
| 1.56 | 2.47 | 1 | | |
| 1.34 | -1.24 | -2.48 | | |
| 1.2 | -0.19 | -1.28 | | |
| 1.18 | -2.35 | -3.42 | | |
| 1.59 | 1.97 | 0.51 | | |
| 1.35 | 0.12 | -1.11 | | |
| 1.29 | 2.06 | 0.9 | | |
| 1.84 | 1.1 | -0.36 | | |
| 1.57 | 4.85 | 3.62 | | |
| -3.07 | -0.84 | 0.2 | | |
| -3.11 | -0.02 | 1.04 | | |
| -3.83 | 0.22 | 1.58 | | |
| -3.96 | -0.41 | 0.99 | | |
| -4.35 | -1.95 | -0.41 | | |
| -4.85 | -2.32 | -0.62 | | |
| -12.65 | -2.19 | 0.89 | | |
| 2.6 | -0.6 | -2.07 | | |
| -2.46 | -5.62 | -4.41 | | |
| 2.59 | -1 | -2.46 | | |
| 2.07 | 1.36 | 0.22 | | |
| 2.04 | -0.94 | -2.07 | | |
| 1.82 | -0.29 | -1.76 | | |
| 1.63 | 0.84 | -0.46 | | |
| 1.62 | 2.18 | 0.89 | | |
| 1.45 | 2.65 | 1.51 | | |
| 1.43 | 2.38 | 1.26 | | |
| 1.39 | 1.91 | 0.83 | | |
| 1.37 | 3.5 | 2.44 | | |
| 1.35 | 2.53 | 1.5 | | |
| 1.16 | 1.24 | -0.22 | | |
| 1.13 | 0.61 | -0.82 | | |
| 1.11 | -1.35 | -2.75 | | |
| -1.06 | 3.32 | 2.16 | | |
| -1.09 | 1.07 | -0.06 | | |
| -4.95 | -1.15 | -0.1 | | |
| -5.12 | -2.31 | -1.21 | | |
| -5.29 | -1.88 | -0.73 | | |
| 2.2 | 2.4 | 0.93 | | |
| 2.02 | 5.11 | 3.77 | | |
| 1.22 | 0.21 | -1.26 | | |
| -1.09 | 0.62 | -0.44 | | |

| | | | | |
|--------|-------|-------|--|--|
| -5.87 | -1.85 | -0.47 | | |
| -11.11 | -3.45 | -1.15 | | |
| -1.31 | 5.45 | 3.99 | | |
| -1.49 | 1.03 | -0.24 | | |
| -1.64 | -1.72 | -2.86 | | |
| 2.34 | 0.08 | -1.39 | | |
| 1.81 | -2.71 | -3.8 | | |
| 4.95 | 1.1 | -0.37 | | |
| 4.59 | 1.52 | 0.17 | | |
| 3.76 | -0.03 | -1.1 | | |
| -1.16 | 1.96 | 3.02 | | |
| 4.03 | -4.02 | -5.48 | | |
| 3.12 | -5.35 | -6.45 | | |
| -1.37 | -2 | -1 | | |
| -1.38 | -3.48 | -2.46 | | |
| -1.4 | -1.4 | -0.38 | | |
| -1.43 | -4.62 | -3.55 | | |
| -1.45 | -2.86 | -1.78 | | |
| -1.52 | -4.29 | -3.14 | | |
| -1.53 | -4.51 | -3.35 | | |
| -1.57 | -7.02 | -5.82 | | |
| -1.64 | -4.92 | -3.66 | | |
| -1.68 | 0.55 | 1.85 | | |
| -1.82 | -3.2 | -1.79 | | |
| -2.01 | -3.91 | -2.35 | | |
| -2.08 | -3.51 | -1.9 | | |
| -2.37 | -4.73 | -2.94 | | |
| -2.54 | -3.85 | -1.96 | | |
| 3.15 | 2.3 | 0.84 | | |
| -1.79 | 0.83 | 1.87 | | |
| -1.88 | 0.19 | 1.29 | | |
| -2.02 | -2.01 | -0.81 | | |
| -2.45 | 0.33 | 1.82 | | |
| 4.64 | 1.29 | -0.17 | | |
| -1.34 | 0.84 | 2.02 | | |
| -1.44 | 6.08 | 7.35 | | |
| -1.44 | 6.08 | 7.35 | | |
| -1.46 | 1.41 | 2.71 | | |
| -1.51 | 0.45 | 1.8 | | |
| -1.75 | -1.4 | 0.16 | | |
| 10.47 | -2.19 | -3.65 | | |
| 8.95 | 1.4 | 0.17 | | |
| 1.49 | -0.72 | 0.62 | | |
| 1.32 | -0.09 | 1.44 | | |
| 1.07 | -0.76 | 1.08 | | |
| 1.04 | -1.93 | -0.06 | | |
| -1.03 | -0.9 | 1.07 | | |
| 2.13 | -2.23 | -3.69 | | |
| -2.71 | -1.88 | -0.81 | | |
| -2.99 | -2.89 | -1.68 | | |
| -3.07 | -3.1 | -1.85 | | |
| -4.19 | -2.4 | -0.7 | | |
| 1.34 | 2.36 | 0.9 | | |
| 1.09 | 1.67 | 0.5 | | |
| -5.29 | -1.11 | 0.25 | | |
| 2.69 | 1.14 | -0.32 | | |
| -2.4 | -0.42 | 0.8 | | |
| -2.89 | -1.57 | -0.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.45 | -1.17 | -2.64 | | |
| 1.3 | 1.87 | 0.56 | | |
| 1.24 | -0.19 | -1.43 | | |
| 1.05 | -3.75 | -4.76 | | |
| -4.08 | -0.86 | 0.24 | | |
| -4.29 | -1.98 | -0.81 | | |
| 2.1 | -0.15 | -1.6 | | |
| 1.76 | -0.32 | -1.53 | | |
| 1.7 | -1.83 | -2.98 | | |
| 1.62 | 1.82 | 0.74 | | |
| 1.57 | -0.14 | -1.18 | | |
| 1.53 | -2.3 | -3.31 | | |
| -3.09 | -2.84 | -1.6 | | |
| 1.78 | 0.98 | -0.47 | | |
| 1.35 | 1.53 | 0.47 | | |
| 1.31 | 1.82 | 0.81 | | |
| -3.1 | -1.06 | -0.05 | | |
| -3.12 | -0.26 | 0.76 | | |
| -3.51 | -0.84 | 0.34 | | |
| 1.18 | 3.99 | 2.53 | | |
| 1.02 | 1.61 | 0.37 | | |
| 1 | 4.43 | 3.21 | | |
| -1.02 | 6.18 | 4.99 | | |
| -1.04 | -2.12 | -3.28 | | |
| -1.12 | 2.18 | 1.13 | | |
| -1.13 | 1.15 | 0.1 | | |
| -5.01 | -0.29 | 0.81 | | |
| -7.28 | -1.86 | -0.22 | | |
| 26.34 | -0.7 | -2.17 | | |
| 1.87 | -1.41 | 0.95 | | |
| 1.79 | -3.91 | -1.49 | | |
| 1.74 | -5.17 | -2.71 | | |
| 1.71 | -0.44 | 2.04 | | |
| 1.57 | -0.66 | 1.95 | | |
| 1.53 | 0.01 | 2.65 | | |
| 1.22 | 0.12 | 3.1 | | |
| 1.14 | -3.87 | -0.8 | | |
| -1.06 | 1.71 | 5.05 | | |
| -1.09 | -2.08 | 1.3 | | |
| -1.2 | -1.25 | 2.27 | | |
| -1.41 | -2.16 | 1.59 | | |
| -1.46 | -4.33 | -0.52 | | |
| 2.64 | -3.08 | -4.54 | | |
| 2.06 | -3.37 | -4.46 | | |
| 2 | 0.08 | -0.98 | | |
| 1.95 | -2.5 | -3.52 | | |
| 1.94 | -3.83 | -4.84 | | |
| -2.22 | -3.81 | -2.72 | | |
| -2.37 | -3.01 | -1.82 | | |
| -3.45 | -4.97 | -3.24 | | |
| -4.11 | -5.19 | -3.2 | | |
| 1.4 | -0.57 | -2.03 | | |
| 1.33 | 6.26 | 4.87 | | |
| 1.12 | 4.01 | 2.88 | | |
| 1.06 | 0.37 | -0.68 | | |
| 1.05 | 3.43 | 2.38 | | |
| -4.03 | 1.02 | 2.07 | | |
| -5.09 | -0.66 | 0.72 | | |

| | | | | |
|-------|-------|-------|--|--|
| -8.69 | -1.59 | 0.56 | | |
| 2.87 | 1.33 | -0.13 | | |
| 2.17 | 0.38 | -0.67 | | |
| -2.01 | -1.06 | 0.01 | | |
| 2.44 | 0.9 | -0.57 | | |
| 2.39 | 0.75 | -0.68 | | |
| 2.21 | 1.74 | 0.42 | | |
| 2.14 | -0.2 | -1.47 | | |
| 1.94 | -0.92 | -2.05 | | |
| 1.84 | -0.24 | -1.3 | | |
| 1.83 | -1.33 | -2.38 | | |
| 1.83 | 1 | -0.05 | | |
| 1.79 | 1.48 | 0.47 | | |
| 1.97 | 3.92 | 2.46 | | |
| 1.77 | -1.33 | -2.64 | | |
| 1.54 | 0.26 | -0.85 | | |
| 2.98 | -0.75 | -2.21 | | |
| 2.22 | -2.03 | -3.07 | | |
| -1.9 | -1.55 | -0.51 | | |
| -2.05 | -1.9 | -0.75 | | |
| 1.34 | -1.13 | -2.6 | | |
| 1.34 | -4.09 | -5.55 | | |
| 1.19 | 1.47 | 0.18 | | |
| -1.02 | -2.43 | -3.44 | | |
| 3.48 | 2.55 | 1.09 | | |
| 3.42 | 1.88 | 0.45 | | |
| 3.33 | -0.69 | -2.08 | | |
| 3.23 | -1.75 | -3.1 | | |
| 2.87 | -1.2 | -2.37 | | |
| 2.83 | -0.74 | -1.9 | | |
| 2.83 | -1.51 | -2.66 | | |
| 2.77 | -0.2 | -1.33 | | |
| 2.66 | 1.39 | 0.33 | | |
| 2.62 | 0.13 | -0.91 | | |
| 2.58 | 1.9 | 0.88 | | |
| -1.64 | -2.1 | -1.04 | | |
| 2.03 | -2.58 | -4.03 | | |
| 1.82 | -2.26 | -3.56 | | |
| 1.54 | 3.49 | 2.43 | | |
| 1.49 | -0.87 | -1.88 | | |
| 2.22 | -1.34 | -2.8 | | |
| -2.5 | -2.29 | -1.28 | | |
| -2.66 | -2.75 | -1.65 | | |
| -2.72 | -3.89 | -2.75 | | |
| -2.73 | -3.19 | -2.05 | | |
| -2.74 | -2.58 | -1.44 | | |
| -3 | -2.02 | -0.74 | | |
| -3.13 | -2.68 | -1.34 | | |
| -3.31 | -3.18 | -1.77 | | |
| -3.63 | -3.93 | -2.38 | | |
| -3.73 | -3.85 | -2.26 | | |
| -4 | -3.49 | -1.8 | | |
| -5.57 | -5.26 | -3.1 | | |
| 1.99 | 2.06 | 0.6 | | |
| 1.86 | 0.62 | -0.74 | | |
| 1.49 | -1.24 | -2.28 | | |
| -3.77 | -2.33 | -0.88 | | |
| -3.93 | -2.59 | -1.09 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.13 | 2.24 | 0.78 | | |
| -1.53 | 1.37 | 0.35 | | |
| 4.74 | -0.29 | -1.75 | | |
| -1.29 | -1.38 | -0.22 | | |
| -1.39 | -2.91 | -1.65 | | |
| -2.09 | -2.44 | -0.6 | | |
| 2.19 | 2.62 | 1.16 | | |
| 2.05 | 2.63 | 1.26 | | |
| 1.99 | 1.46 | 0.13 | | |
| 1.69 | 2 | 0.91 | | |
| 1.62 | 2.95 | 1.92 | | |
| -3.11 | -0.44 | 0.87 | | |
| 3.31 | -3.39 | -4.85 | | |
| 3.27 | -4.41 | -5.86 | | |
| 2.92 | -1.34 | -2.62 | | |
| 2.61 | -2.74 | -3.86 | | |
| 2.45 | -3.08 | -4.1 | | |
| 9.35 | -0.78 | -2.24 | | |
| 1.68 | -0.78 | 0.23 | | |
| 1.48 | 0.66 | 1.86 | | |
| 1.19 | 1.17 | 2.68 | | |
| 1.11 | 0.6 | 2.22 | | |
| -1.33 | -1.28 | 0.9 | | |
| 2.51 | -1.08 | -2.54 | | |
| 2.09 | 3.29 | 2.09 | | |
| -2.31 | -2.06 | -0.99 | | |
| -2.4 | -2.06 | -0.94 | | |
| -2.51 | -2.78 | -1.59 | | |
| 2.37 | -1.2 | -2.66 | | |
| 2.2 | 0.05 | -1.3 | | |
| 1.83 | -3.09 | -4.17 | | |
| -2.64 | -1.68 | -0.49 | | |
| 2.42 | -0.66 | -2.12 | | |
| 2.13 | 0.01 | -1.26 | | |
| 1.98 | -2.89 | -4.06 | | |
| -2.62 | -3.17 | -1.96 | | |
| 2.11 | 1.12 | -0.33 | | |
| 1.84 | 0.41 | -0.84 | | |
| 1.75 | -0.45 | -1.63 | | |
| 1.62 | -2.88 | -3.95 | | |
| 1.43 | -0.85 | -2.3 | | |
| 1.11 | 1.8 | 0.71 | | |
| 1.39 | 0.47 | -0.98 | | |
| 1.25 | 2.64 | 1.33 | | |
| 1.09 | -0.36 | -1.48 | | |
| 1.07 | 2.45 | 1.37 | | |
| 1.05 | -0.98 | -2.03 | | |
| -4.92 | -1.3 | 0.02 | | |
| -5.04 | -1.29 | 0.06 | | |
| 1.49 | -1.04 | -2.5 | | |
| 1.21 | 1.05 | -0.11 | | |
| 1.13 | -5.06 | -6.13 | | |
| -5.09 | -3.17 | -1.71 | | |
| -5.36 | -5.2 | -3.66 | | |
| 1.77 | -1.7 | -3.15 | | |
| 1.38 | 1.39 | 0.29 | | |
| -4.05 | 0.14 | 1.52 | | |
| -5.68 | -2 | -0.13 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.07 | 2.73 | 1.28 | | |
| -1.05 | -4.22 | -5.52 | | |
| -1.09 | -5.58 | -6.82 | | |
| -1.17 | -1.17 | -2.32 | | |
| -1.26 | -0.16 | -1.19 | | |
| -5.19 | -2.17 | -1.16 | | |
| -5.48 | -1.4 | -0.31 | | |
| 1.92 | 3.59 | 2.14 | | |
| 1.67 | 0.61 | -0.64 | | |
| 1.52 | -0.69 | -1.81 | | |
| 1.49 | -1.48 | -2.56 | | |
| -3.12 | -2.73 | -1.59 | | |
| -3.85 | -2.35 | -0.91 | | |
| 3.72 | 0.78 | -0.67 | | |
| 2.95 | 1.82 | 0.71 | | |
| -1.54 | -1.13 | -0.07 | | |
| -1.76 | -1.05 | 0.21 | | |
| -2.95 | -1.74 | 0.26 | | |
| 1.93 | 0.74 | -0.71 | | |
| 1.58 | 2.04 | 0.87 | | |
| 1.5 | 3.59 | 2.51 | | |
| 2.16 | 2.47 | 1.01 | | |
| 2.11 | 2.77 | 1.35 | | |
| 2.07 | -0.27 | -1.67 | | |
| 1.89 | -0.91 | -2.18 | | |
| 1.78 | -0.14 | -1.32 | | |
| -2.76 | -2.78 | -1.67 | | |
| -3.36 | -2.09 | -0.68 | | |
| -1.02 | -0.35 | -1.8 | | |
| -1.13 | -3.49 | -4.79 | | |
| -1.15 | 0.08 | -1.21 | | |
| -1.26 | -3.13 | -4.27 | | |
| -1.28 | -1.23 | -2.35 | | |
| 1.56 | -3.76 | -5.22 | | |
| -3.53 | -1.17 | -0.17 | | |
| -4.45 | -3.46 | -2.12 | | |
| 2.67 | -4.6 | -6.04 | | |
| 2.1 | -1.87 | -2.98 | | |
| -2.72 | -4.48 | -3.07 | | |
| 1.9 | 2.79 | 1.35 | | |
| 1.63 | 2.69 | 1.46 | | |
| 1.54 | 0.31 | -0.84 | | |
| 1.87 | -0.48 | -1.93 | | |
| 1.48 | 1.48 | 0.36 | | |
| -2.92 | -0.59 | 0.4 | | |
| -2.96 | -2.29 | -1.27 | | |
| -3.44 | -1.62 | -0.39 | | |
| -3.55 | -0.13 | 1.16 | | |
| -4.27 | -2.36 | -0.82 | | |
| -4.5 | -2.96 | -1.34 | | |
| -4.51 | -3.09 | -1.46 | | |
| -4.6 | -2.06 | -0.41 | | |
| -5.2 | -3.01 | -1.18 | | |
| -6.14 | -2.24 | -0.17 | | |
| 1.24 | -5.46 | -6.9 | | |
| 1.1 | -1.78 | -3.06 | | |
| 1.04 | -5.45 | -6.64 | | |
| -1.09 | -2.34 | -3.35 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.71 | -1.68 | -0.58 | | |
| -5.27 | -5.02 | -3.76 | | |
| 11.09 | 0.01 | -1.44 | | |
| 2.02 | 1 | 2.01 | | |
| 1.68 | -3.89 | -2.61 | | |
| 1.55 | -1.84 | -0.45 | | |
| 1.28 | -4.06 | -2.4 | | |
| 1.24 | -0.01 | 1.71 | | |
| 1.22 | -1.76 | -0.02 | | |
| 1.18 | -5.27 | -3.49 | | |
| 1.16 | -0.85 | 0.96 | | |
| 1.13 | 1.58 | 3.42 | | |
| 1.12 | 1.37 | 3.23 | | |
| 1.11 | -0.67 | 1.2 | | |
| 1 | -2.75 | -0.74 | | |
| -1 | -4.13 | -2.1 | | |
| -1.12 | -2.11 | 0.07 | | |
| -1.37 | -4.89 | -2.41 | | |
| -1.39 | -3.94 | -1.44 | | |
| 1.98 | -0.5 | -1.94 | | |
| 1.51 | -3.89 | -4.95 | | |
| -2.78 | -1.47 | -0.46 | | |
| -5.57 | -1.72 | 0.29 | | |
| 2 | 4.09 | 2.64 | | |
| 1.82 | 1.65 | 0.34 | | |
| -4.69 | -2.09 | -0.31 | | |
| 3.82 | -0.48 | -1.92 | | |
| 3.58 | -0.64 | -2 | | |
| -1.57 | -3.1 | -1.96 | | |
| 2.68 | 1.11 | -0.33 | | |
| 2.22 | -2.74 | -3.92 | | |
| 4.65 | -2.83 | -4.28 | | |
| -1.21 | -5.22 | -4.17 | | |
| -1.42 | -6.53 | -5.25 | | |
| -1.52 | -5.21 | -3.83 | | |
| 3.07 | 2.68 | 1.23 | | |
| 2.53 | 3.77 | 2.6 | | |
| -1.89 | -0.95 | 0.14 | | |
| 2.09 | -0.95 | -2.39 | | |
| 1.56 | 1.76 | 0.73 | | |
| 3.19 | -4.47 | -5.91 | | |
| -1.75 | -7.06 | -6.03 | | |
| -2.02 | -4.75 | -3.51 | | |
| 2.69 | -0.08 | -1.53 | | |
| 2.08 | -0.47 | -1.54 | | |
| -2.17 | -2.37 | -1.26 | | |
| -2.26 | -3.82 | -2.66 | | |
| -2.29 | -1.54 | -0.36 | | |
| -2.34 | -4.35 | -3.13 | | |
| 1.61 | -2.89 | -4.33 | | |
| 1.38 | 1.26 | 0.04 | | |
| 1.36 | 1.15 | -0.06 | | |
| 1.32 | -3.58 | -4.74 | | |
| 1.29 | -1.75 | -2.87 | | |
| 1.92 | -0.69 | -2.14 | | |
| 1.57 | 1.8 | 0.64 | | |
| -3.12 | -2.83 | -1.69 | | |
| -3.24 | -1.14 | 0.05 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.26 | 0.61 | -0.84 | | |
| 1.98 | 1.45 | 0.19 | | |
| 1.83 | 2.19 | 1.05 | | |
| 1.67 | 1.86 | 0.86 | | |
| -2.49 | -0.92 | 0.13 | | |
| -2.59 | -0.49 | 0.61 | | |
| 2.64 | 0.97 | -0.47 | | |
| -2.35 | -2.28 | -1.09 | | |
| -2.49 | -2.86 | -1.59 | | |
| -3.17 | -1.93 | -0.3 | | |
| -3.73 | -1.33 | 0.53 | | |
| 3.01 | 5.45 | 4 | | |
| 2.32 | 1.82 | 0.75 | | |
| -1.85 | -1.43 | -0.39 | | |
| -1.94 | 1.91 | 3.01 | | |
| -2.14 | 1.89 | 3.13 | | |
| 3.05 | -1.41 | -2.85 | | |
| 2.42 | 2.18 | 1.08 | | |
| -1.95 | -0.49 | 0.64 | | |
| 1.97 | -1.99 | -3.44 | | |
| 1.46 | 0.49 | -0.52 | | |
| -2.91 | 0.34 | 1.42 | | |
| -2.92 | -2.26 | -1.18 | | |
| -6.63 | -3.96 | -1.69 | | |
| -11.86 | -3.29 | -0.19 | | |
| 1.79 | -0.46 | -1.9 | | |
| 1.75 | -3.56 | -4.97 | | |
| 1.65 | -4.56 | -5.88 | | |
| 1.52 | -3.05 | -4.26 | | |
| 1.31 | -0.6 | -2.04 | | |
| 1.26 | -2.14 | -3.52 | | |
| 1.03 | -0.49 | -1.59 | | |
| 1.01 | 2.26 | 1.19 | | |
| -1.04 | 1.7 | 0.7 | | |
| 1.62 | 2.74 | 1.3 | | |
| 1.25 | 1.67 | 0.61 | | |
| -3.64 | -2.06 | -0.94 | | |
| 1.64 | -2.18 | -3.61 | | |
| -3.66 | -1.89 | -0.73 | | |
| 2.26 | -0.04 | -1.48 | | |
| 2.1 | 0.88 | -0.44 | | |
| 2.03 | 0.89 | -0.39 | | |
| 1.97 | 0.89 | -0.35 | | |
| 1.87 | -0.6 | -1.76 | | |
| 1.83 | -0.1 | -1.23 | | |
| 1.72 | -0.79 | -1.83 | | |
| -5.24 | -4.34 | -2.21 | | |
| 1.56 | -1.9 | -3.34 | | |
| 1.36 | -1.84 | -3.08 | | |
| 1.32 | -3.15 | -4.35 | | |
| 1.22 | -2.14 | -3.22 | | |
| 1.15 | 1.45 | 0.45 | | |
| -3.85 | -1.32 | -0.17 | | |
| 3.26 | -1.82 | -3.26 | | |
| -2.01 | -4.67 | -3.4 | | |
| -2.75 | -2.97 | -1.24 | | |
| 1.86 | -1.93 | -3.37 | | |
| 1.46 | -3.77 | -4.86 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.06 | -1.72 | -3.16 | | |
| 1.02 | -2.42 | -3.79 | | |
| -5.46 | -3.74 | -2.64 | | |
| 1.08 | 0.78 | -0.66 | | |
| -1.16 | 6.99 | 5.88 | | |
| -1.23 | 3.49 | 2.46 | | |
| 10.18 | 0.58 | -0.86 | | |
| 1.87 | -0.04 | 0.96 | | |
| 1.83 | 0.56 | 1.59 | | |
| 1.81 | -1.95 | -0.9 | | |
| 1.69 | -2.26 | -1.11 | | |
| 1.54 | -0.03 | 1.26 | | |
| 1.52 | -1.85 | -0.55 | | |
| 1.48 | -2.97 | -1.62 | | |
| 1.47 | -1.58 | -0.23 | | |
| 1.31 | 0.12 | 1.64 | | |
| 1.16 | 1.94 | 3.63 | | |
| 1.09 | 0.32 | 2.1 | | |
| 1.09 | 1.13 | 2.92 | | |
| 1.05 | 4.56 | 6.4 | | |
| 7.88 | -0.15 | -1.59 | | |
| 5.94 | 1.64 | 0.6 | | |
| 1.43 | -0.82 | 0.2 | | |
| 1.33 | 1.31 | 2.44 | | |
| 1.32 | -0.74 | 0.4 | | |
| 1.29 | 0.87 | 2.05 | | |
| 1.21 | 1.48 | 2.75 | | |
| 1.07 | 0.17 | 1.61 | | |
| 1.05 | -1.24 | 0.23 | | |
| -1.09 | -0.65 | 1.02 | | |
| 2 | 2.95 | 1.51 | | |
| 1.9 | 1.76 | 0.39 | | |
| 1.68 | 3.04 | 1.86 | | |
| 1.89 | -0.53 | -1.97 | | |
| 1.74 | -0.48 | -1.8 | | |
| 1.45 | -2.01 | -3.07 | | |
| 1.42 | 0.34 | -0.68 | | |
| -3.29 | -2.78 | -1.58 | | |
| 1.5 | -1.35 | -2.78 | | |
| 1.45 | -1.68 | -3.06 | | |
| 1.36 | -0.48 | -1.77 | | |
| 1.17 | -0.55 | -1.63 | | |
| 1.14 | -2.31 | -3.35 | | |
| 1.11 | -1.05 | -2.05 | | |
| -3.75 | -2.45 | -1.4 | | |
| 10.92 | 0.28 | -1.16 | | |
| 8.8 | 0.84 | -0.29 | | |
| 1.93 | -1.98 | -0.91 | | |
| 1.76 | -1.44 | -0.25 | | |
| 1.74 | -3.71 | -2.5 | | |
| 1.7 | -2.17 | -0.93 | | |
| 1.59 | -1.78 | -0.44 | | |
| 1.57 | -1.48 | -0.12 | | |
| 1.57 | -1.75 | -0.38 | | |
| 1.55 | -0.77 | 0.6 | | |
| 1.35 | -0.34 | 1.24 | | |
| 1.3 | -1.82 | -0.19 | | |
| 1 | -4.78 | -2.77 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.09 | -3.75 | -1.61 | | |
| -1.12 | -2.9 | -0.72 | | |
| -1.26 | -4.75 | -2.42 | | |
| -1.29 | -1.48 | 0.9 | | |
| -1.9 | -4.6 | -1.67 | | |
| 2.15 | -1.68 | -3.12 | | |
| -2.55 | -1.66 | -0.65 | | |
| -2.77 | -2.22 | -1.08 | | |
| -3.55 | -3.01 | -1.52 | | |
| 1.8 | 0.72 | -0.72 | | |
| -7.92 | -2.05 | 0.35 | | |
| 1.6 | 3.8 | 2.36 | | |
| 1.49 | 0.76 | -0.57 | | |
| 1.48 | -3.13 | -4.46 | | |
| 1.41 | 3.8 | 2.54 | | |
| -3.76 | -2.71 | -1.56 | | |
| 1.64 | -0.44 | -1.88 | | |
| 1.46 | -1.02 | -2.27 | | |
| 1.97 | 4.59 | 3.16 | | |
| 1.59 | -2.66 | -3.78 | | |
| -2.76 | -1.84 | -0.83 | | |
| -3.81 | -2.11 | -0.64 | | |
| -4.84 | -3.96 | -2.14 | | |
| 1.92 | -1.34 | -2.77 | | |
| 1.6 | -4.45 | -5.62 | | |
| -5.01 | -3.77 | -1.94 | | |
| 1.31 | -0.69 | -2.12 | | |
| 1.2 | 1.6 | 0.3 | | |
| 1.09 | 2.49 | 1.32 | | |
| -1 | 1.57 | 0.52 | | |
| 3.08 | -1.48 | -2.91 | | |
| -1.88 | 2.49 | 3.59 | | |
| -2.01 | -2.51 | -1.32 | | |
| 2.3 | -1.08 | -2.51 | | |
| 2.04 | -0.07 | -1.33 | | |
| -2.44 | -2.23 | -1.17 | | |
| -2.77 | -1.52 | -0.28 | | |
| 2.33 | 0.6 | -0.83 | | |
| -2.33 | -2.25 | -1.24 | | |
| 4.22 | 0.45 | -0.98 | | |
| 3.6 | 2.26 | 1.06 | | |
| 3.46 | 1.15 | 0.01 | | |
| 3.19 | 0.18 | -0.85 | | |
| 3.16 | -0.07 | -1.09 | | |
| -1.75 | -1.76 | -0.31 | | |
| -1.89 | -1.67 | -0.11 | | |
| -2.28 | -2.35 | -0.51 | | |
| 1.29 | -0.42 | -1.85 | | |
| 1.26 | 3.36 | 1.96 | | |
| 1.17 | -1.48 | -2.77 | | |
| 1.03 | -3.57 | -4.68 | | |
| -1.02 | -3.64 | -4.68 | | |
| 2.31 | -1.58 | -3.02 | | |
| 1.82 | 2.17 | 1.08 | | |
| -2.48 | -3.14 | -2.06 | | |
| -2.93 | -3.79 | -2.46 | | |
| 2.21 | -0.57 | -2 | | |
| -3.48 | -7.26 | -5.75 | | |

| | | | | |
|--------|-------|-------|--|--|
| 2.13 | -0.34 | -1.77 | | |
| -3.91 | -1.04 | 0.6 | | |
| -3.92 | -0.17 | 1.47 | | |
| -3.92 | -0.17 | 1.47 | | |
| -3.99 | -0.95 | 0.71 | | |
| 2.03 | -2.54 | -3.96 | | |
| 1.73 | 0.56 | -0.63 | | |
| 1.55 | -0.55 | -1.58 | | |
| -2.82 | -5.98 | -4.89 | | |
| -2.87 | -3.71 | -2.59 | | |
| -9.79 | -4.54 | -1.65 | | |
| 2.28 | -2.24 | -3.67 | | |
| 1.9 | 0.12 | -1.04 | | |
| 1.82 | -0.27 | -1.38 | | |
| 1.82 | -1.18 | -2.29 | | |
| -4.29 | -3.95 | -2.09 | | |
| 1.56 | 0.15 | -1.27 | | |
| 1.28 | -1.54 | -2.68 | | |
| 1.21 | 0.3 | -0.76 | | |
| 1.17 | -0.59 | -1.61 | | |
| 1.24 | 3.11 | 1.69 | | |
| 1.14 | 2.29 | 0.98 | | |
| -7.74 | -1.32 | 0.51 | | |
| -7.83 | -0.99 | 0.86 | | |
| 2.41 | 0.09 | -1.33 | | |
| 2.41 | -0.85 | -2.28 | | |
| 2.24 | 1.84 | 0.52 | | |
| 1.91 | 1.73 | 0.65 | | |
| 1.82 | 0.59 | -0.43 | | |
| 1.81 | -0.05 | -1.06 | | |
| 1.28 | 1.7 | 0.27 | | |
| 1.22 | 1.78 | 0.42 | | |
| 1.14 | -1.34 | -2.6 | | |
| 1.03 | 2.05 | 0.93 | | |
| -1.02 | 1.21 | 0.16 | | |
| 2.15 | -1.42 | -2.85 | | |
| -2.52 | -2.62 | -1.61 | | |
| 1.36 | -0.72 | -2.15 | | |
| 1.33 | 1.43 | 0.04 | | |
| 1.22 | 4.4 | 3.13 | | |
| 1.19 | 1.08 | -0.15 | | |
| 1.1 | 3.56 | 2.43 | | |
| -5.47 | -2.61 | -1.14 | | |
| -5.52 | -3.28 | -1.8 | | |
| -6.82 | -2.61 | -0.83 | | |
| -7.01 | -0.73 | 1.09 | | |
| -11.28 | -3.44 | -0.93 | | |
| 3.34 | -0.53 | -1.95 | | |
| 2.84 | -0.7 | -1.89 | | |
| -1.61 | -4.37 | -3.37 | | |
| -1.63 | -4.12 | -3.1 | | |
| -1.64 | -3.87 | -2.84 | | |
| -1.7 | -4.6 | -3.53 | | |
| -1.74 | -0.83 | 0.29 | | |
| -1.74 | -2.02 | -0.91 | | |
| -1.8 | -1.45 | -0.29 | | |
| -2.17 | -2.53 | -1.1 | | |
| -2.18 | -3.2 | -1.76 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.27 | -3.01 | -1.51 | | |
| -3.8 | -5.16 | -2.92 | | |
| 2.18 | -3.35 | -4.78 | | |
| 2.14 | -2.75 | -4.15 | | |
| 1.95 | -1.73 | -3 | | |
| 9.33 | 0.13 | -1.3 | | |
| 1.68 | -2.34 | -1.29 | | |
| 1.54 | -0.4 | 0.77 | | |
| 1.53 | 0.61 | 1.78 | | |
| 1.51 | -0.49 | 0.71 | | |
| 1.44 | 0.89 | 2.16 | | |
| 1.44 | -0.83 | 0.43 | | |
| 1.37 | -0.03 | 1.31 | | |
| 1.31 | 1.03 | 2.43 | | |
| 1.24 | -3.15 | -1.66 | | |
| 1.14 | -1.87 | -0.26 | | |
| 1.07 | 4.52 | 6.22 | | |
| 1.02 | -0.15 | 1.61 | | |
| -1.01 | -2.23 | -0.43 | | |
| -1.06 | 5.48 | 7.36 | | |
| -1.26 | 1.41 | 3.54 | | |
| -1.4 | -1.8 | 0.48 | | |
| -1.5 | 0.68 | 3.06 | | |
| -2.02 | -1.56 | 1.25 | | |
| 2.02 | -0.15 | -1.58 | | |
| 1.52 | -1.96 | -2.98 | | |
| -2.81 | -1.27 | -0.19 | | |
| -4.59 | -3.07 | -1.29 | | |
| 1.52 | 1.61 | 0.18 | | |
| 1.33 | 1.64 | 0.41 | | |
| 1.26 | 0.01 | -1.15 | | |
| 1.2 | 2.63 | 1.54 | | |
| -3.66 | -2.35 | -1.3 | | |
| -3.99 | 0.73 | 1.9 | | |
| 2.02 | 1.24 | -0.18 | | |
| 1.66 | -2.93 | -4.07 | | |
| 1.54 | -1.46 | -2.49 | | |
| -2.78 | -2.23 | -1.17 | | |
| -3.17 | -5.07 | -3.82 | | |
| 1.19 | 1.67 | 0.25 | | |
| 1.03 | 2.13 | 0.91 | | |
| -1.06 | 1.9 | 0.82 | | |
| -6.86 | -2.56 | -0.95 | | |
| 3.71 | 0.86 | -0.56 | | |
| -1.68 | 0.92 | 2.13 | | |
| -3.62 | 3.25 | 5.57 | | |
| 2.21 | -0.59 | -2.02 | | |
| 1.76 | -3.06 | -4.15 | | |
| 1.68 | 3.66 | 2.63 | | |
| -2.61 | -2.45 | -1.34 | | |
| -2.96 | -1.65 | -0.37 | | |
| -3.41 | -1.5 | -0.01 | | |
| -3.77 | -2.84 | -1.2 | | |
| 3.52 | 0.38 | -1.05 | | |
| -1.55 | -2.63 | -1.61 | | |
| 2.95 | -1.06 | -2.49 | | |
| 2.89 | 1.88 | 0.49 | | |
| 2.56 | 4.25 | 3.02 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.83 | 4.19 | 5.19 | | |
| 1.32 | 1.94 | 0.52 | | |
| 1.29 | 0.88 | -0.52 | | |
| 1.18 | 1.42 | 0.16 | | |
| 1.11 | 0.31 | -0.88 | | |
| 1.04 | 0.82 | -0.27 | | |
| 1.02 | 1.7 | 0.64 | | |
| -4.25 | -0.41 | 0.65 | | |
| -4.46 | -2.73 | -1.61 | | |
| -4.61 | -0.32 | 0.86 | | |
| -5.05 | 0.15 | 1.46 | | |
| -5.3 | -1.71 | -0.33 | | |
| -5.35 | -2.15 | -0.76 | | |
| -6.1 | -0.89 | 0.69 | | |
| -7.99 | -0.79 | 1.18 | | |
| 2.13 | -3.36 | -4.79 | | |
| 1.67 | -2.99 | -4.07 | | |
| -2.87 | -3.77 | -2.59 | | |
| 1.79 | 0.21 | -1.22 | | |
| 1.55 | -0.02 | -1.24 | | |
| 1.53 | -1.53 | -2.73 | | |
| -6.28 | -1.2 | 0.86 | | |
| 3.24 | -1 | -2.43 | | |
| -1.91 | -1.44 | -0.24 | | |
| 1.97 | 3.95 | 2.52 | | |
| 1.7 | 0.78 | -0.44 | | |
| 1.63 | 1.98 | 0.82 | | |
| 1.51 | 1.25 | 0.2 | | |
| -2.74 | 0.59 | 1.6 | | |
| -3.41 | -0.74 | 0.58 | | |
| -3.45 | 0.62 | 1.96 | | |
| -3.52 | -1.55 | -0.18 | | |
| -3.53 | -0.29 | 1.08 | | |
| -3.53 | -0.19 | 1.18 | | |
| -3.93 | 0.17 | 1.69 | | |
| -4.16 | -2.08 | -0.47 | | |
| -4.5 | -2.2 | -0.48 | | |
| -4.85 | -0.67 | 1.16 | | |
| -5.06 | -0.45 | 1.44 | | |
| -8.07 | -3.16 | -0.59 | | |
| 1.15 | -0.67 | -2.1 | | |
| 1.15 | -4.72 | -6.15 | | |
| 1.11 | -3.91 | -5.29 | | |
| 1.07 | -2.79 | -4.11 | | |
| 1.04 | -1.29 | -2.57 | | |
| 1 | 3.78 | 2.55 | | |
| -1.01 | 0.61 | -0.6 | | |
| -1.02 | 1.88 | 0.69 | | |
| -1.13 | 0.31 | -0.73 | | |
| 1.71 | -4.01 | -5.43 | | |
| 1.36 | -2.86 | -3.96 | | |
| 1.34 | -2.7 | -3.77 | | |
| 3.31 | 0.48 | -0.94 | | |
| -1.82 | -0.71 | 0.47 | | |
| -2.21 | -1.59 | -0.13 | | |
| -2.65 | -1.25 | 0.47 | | |
| -3.02 | -0.52 | 1.38 | | |
| 2.3 | -2.53 | -3.96 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.51 | -1.98 | -0.87 | | |
| 2.97 | -4.46 | -5.88 | | |
| 2.85 | -4.35 | -5.71 | | |
| -2.33 | -1.68 | -0.31 | | |
| -2.85 | -2.88 | -1.22 | | |
| -4.1 | -2.58 | -0.4 | | |
| 3.21 | 0.95 | -0.47 | | |
| 2.86 | -1.01 | -2.27 | | |
| 2.48 | 3.39 | 2.34 | | |
| -1.96 | -2.69 | -1.46 | | |
| -1.98 | -1.93 | -0.68 | | |
| 3.53 | -4.44 | -5.86 | | |
| -1.59 | -5.33 | -4.26 | | |
| -1.87 | -6.13 | -4.83 | | |
| 2.91 | 4.21 | 2.79 | | |
| 2.73 | 4.51 | 3.17 | | |
| 2.37 | -0.86 | -1.98 | | |
| 1.83 | 3.24 | 1.82 | | |
| 1.51 | 2.95 | 1.81 | | |
| -2.99 | -1.79 | -0.76 | | |
| 1.86 | 1 | -0.42 | | |
| 1.63 | 3.99 | 2.75 | | |
| 1.57 | -1.18 | -2.36 | | |
| 1.52 | -0.85 | -1.99 | | |
| -2.96 | -2.34 | -1.3 | | |
| -3.7 | -1.08 | 0.27 | | |
| -4.48 | -3.17 | -1.54 | | |
| 1.84 | -0.07 | -1.49 | | |
| 1.4 | -2.84 | -3.87 | | |
| -2.98 | -2.31 | -1.28 | | |
| -3.66 | -4.85 | -3.52 | | |
| 2 | 0.82 | -0.6 | | |
| -2.9 | -1.54 | -0.42 | | |
| -3.64 | -2.7 | -1.25 | | |
| -4.12 | -1.15 | 0.48 | | |
| 2.95 | -0.75 | -2.17 | | |
| 2.4 | -1.31 | -2.43 | | |
| 2.26 | 1.56 | 0.52 | | |
| -2.49 | -2.81 | -1.35 | | |
| 1.33 | 2.99 | 1.57 | | |
| 1.25 | 2.53 | 1.21 | | |
| 1.25 | -2.14 | -3.46 | | |
| 1.16 | -0.19 | -1.41 | | |
| 1.16 | 2.12 | 0.91 | | |
| 1.14 | 2.2 | 1 | | |
| 1.12 | 0.57 | -0.6 | | |
| 1.05 | -0.64 | -1.71 | | |
| -4.25 | -0.8 | 0.28 | | |
| -5.14 | -1.85 | -0.49 | | |
| 2.53 | -3.14 | -4.56 | | |
| 2.29 | -2.43 | -3.7 | | |
| 2.16 | -2.25 | -3.44 | | |
| 2.37 | 3.02 | 1.6 | | |
| 2.2 | 4.46 | 3.15 | | |
| -2.44 | -0.11 | 1 | | |
| -2.79 | -2.02 | -0.72 | | |
| 3.69 | -1.17 | -2.59 | | |
| -1.53 | -3.68 | -2.6 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.32 | -5.12 | -3.44 | | |
| 2.15 | 3.38 | 1.96 | | |
| 1.65 | 1.54 | 0.5 | | |
| 1.41 | 0.32 | -1.1 | | |
| 1.38 | 3.44 | 2.06 | | |
| 1.34 | -2.05 | -3.39 | | |
| 1.09 | 1.09 | 0.04 | | |
| 1.06 | -0.76 | -1.76 | | |
| -4.93 | -0.21 | 1.18 | | |
| -5.13 | 0.17 | 1.61 | | |
| -7.77 | -2.99 | -0.95 | | |
| 3.33 | -2.51 | -3.93 | | |
| 3.25 | -0.88 | -2.26 | | |
| -1.87 | -4.17 | -2.95 | | |
| 2.31 | -2.8 | -4.21 | | |
| 1.86 | -3.12 | -4.23 | | |
| 1.84 | -1.25 | -2.34 | | |
| 1.76 | -1.17 | -2.19 | | |
| 1.73 | 0.17 | -0.83 | | |
| -2.5 | -0.95 | 0.16 | | |
| -2.61 | -2.08 | -0.91 | | |
| 2.78 | -0.69 | -2.1 | | |
| -2 | -3.99 | -2.93 | | |
| 2.79 | -0.54 | -1.96 | | |
| -1.97 | -2.15 | -1.11 | | |
| -2.32 | -1.96 | -0.69 | | |
| 3.38 | -4.38 | -5.79 | | |
| -1.71 | -3.15 | -2.03 | | |
| -1.8 | -6.27 | -5.08 | | |
| -1.84 | -5.25 | -4.03 | | |
| -2.24 | -5.48 | -3.97 | | |
| 1.53 | 1.63 | 0.21 | | |
| 1.17 | -0.02 | -1.06 | | |
| -3.71 | -1.27 | -0.19 | | |
| -3.96 | 0.6 | 1.78 | | |
| -4.04 | 0.05 | 1.25 | | |
| -4.11 | 0.14 | 1.37 | | |
| -4.31 | 1.54 | 2.84 | | |
| 1.78 | -1.16 | -2.58 | | |
| 1.71 | -0.19 | -1.55 | | |
| 1.65 | 1.16 | -0.15 | | |
| 1.6 | -0.14 | -1.4 | | |
| 1.51 | 0.85 | -0.34 | | |
| 1.45 | -0.83 | -1.96 | | |
| 1.45 | 0.84 | -0.27 | | |
| 1.41 | 3.21 | 2.13 | | |
| -3.49 | -0.8 | 0.42 | | |
| 1.44 | 1.28 | -0.13 | | |
| 1.35 | -3.52 | -4.84 | | |
| 1.14 | -3.58 | -4.65 | | |
| 1.93 | 1.27 | -0.14 | | |
| 1.5 | 0.04 | -1.01 | | |
| 1.57 | 1.17 | -0.24 | | |
| 1.26 | 3.41 | 2.31 | | |
| 1.25 | 3.89 | 2.82 | | |
| 1.18 | 0.58 | -0.42 | | |
| 2.61 | -0.92 | -2.33 | | |
| -2.09 | -3.66 | -2.63 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.42 | -4.27 | -3.02 | | |
| -3.66 | -4.86 | -3.02 | | |
| 2.38 | -4.96 | -6.37 | | |
| 2.25 | -4.92 | -6.25 | | |
| 2.08 | -4.63 | -5.85 | | |
| 1.22 | -1.08 | -2.5 | | |
| 1.13 | 0.2 | -1.11 | | |
| -1.05 | -0.58 | -1.64 | | |
| -4.47 | -2.2 | -1.17 | | |
| 1.61 | -1.2 | -2.61 | | |
| -4.75 | -4.46 | -2.93 | | |
| 2.23 | 1.82 | 0.41 | | |
| -2.83 | -2.43 | -1.18 | | |
| 1.2 | 5.29 | 3.88 | | |
| 1.19 | -1.16 | -2.56 | | |
| 1.02 | -0.71 | -1.89 | | |
| 1.01 | -1.35 | -2.52 | | |
| -1.02 | 2.97 | 1.85 | | |
| -1.05 | -0.64 | -1.72 | | |
| 1.62 | -3.17 | -4.58 | | |
| 1.29 | -1.78 | -2.87 | | |
| 1.58 | -1.38 | -2.79 | | |
| 1.56 | -1.22 | -2.61 | | |
| 1.31 | -1.65 | -2.79 | | |
| 1.27 | -1.3 | -2.4 | | |
| -5.92 | -1.56 | 0.26 | | |
| 1.46 | -0.7 | -2.11 | | |
| 1.25 | 0.02 | -1.16 | | |
| 1.2 | -1.58 | -2.7 | | |
| 1.18 | 3.79 | 2.68 | | |
| 1.18 | 1.71 | 0.62 | | |
| 1.18 | -1.01 | -2.1 | | |
| 1.17 | 0.1 | -0.99 | | |
| 1.12 | -0.54 | -1.56 | | |
| 1.1 | -1.13 | -2.13 | | |
| -4.14 | -3.25 | -2.06 | | |
| -9.69 | -3.88 | -1.46 | | |
| 3.74 | -0.36 | -1.77 | | |
| -1.5 | -2.9 | -1.82 | | |
| -2.15 | -2.32 | -0.72 | | |
| 4.09 | -1.34 | -2.75 | | |
| 3.57 | -0.43 | -1.64 | | |
| -1.79 | -1.25 | 0.21 | | |
| -1.82 | -2.68 | -1.2 | | |
| 1.92 | 5.12 | 3.71 | | |
| 1.68 | 0.11 | -1.1 | | |
| 1.54 | 0.23 | -0.86 | | |
| 1.45 | 1.39 | 0.39 | | |
| 13.65 | 0.69 | -0.71 | | |
| 10.46 | 0.72 | -0.3 | | |
| 1.91 | -0.72 | 0.71 | | |
| 1.64 | -1.51 | 0.14 | | |
| 1.37 | -1.18 | 0.73 | | |
| 1.31 | 2.86 | 4.84 | | |
| 1.21 | -2.01 | 0.08 | | |
| 1.17 | 1.7 | 3.84 | | |
| 1.17 | -0.21 | 1.93 | | |
| 1.09 | -1.46 | 0.78 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.01 | -2.71 | -0.36 | | |
| -1 | -0.53 | 1.84 | | |
| 1.45 | -2.31 | -3.72 | | |
| 1.36 | -1.5 | -2.81 | | |
| 1.32 | -2.8 | -4.08 | | |
| 1.18 | -0.31 | -1.43 | | |
| 1.16 | -0.95 | -2.04 | | |
| 1.13 | 5.34 | 4.3 | | |
| -3.68 | -1.71 | -0.71 | | |
| -4.06 | -1.27 | -0.12 | | |
| -4.96 | -4.37 | -2.93 | | |
| -5.17 | -4.19 | -2.69 | | |
| 7.95 | -1.25 | -2.66 | | |
| 6.93 | -2.4 | -3.61 | | |
| 6.22 | -1.26 | -2.31 | | |
| 1.44 | 1.56 | 2.61 | | |
| 1.41 | -4.11 | -3.02 | | |
| 1.32 | -0.19 | 1 | | |
| 1.01 | -4.28 | -2.71 | | |
| -1.01 | -4.54 | -2.94 | | |
| -1.02 | 1.14 | 2.76 | | |
| -1.12 | -4.27 | -2.52 | | |
| -1.15 | 2.69 | 4.47 | | |
| 2.3 | -1.54 | -2.95 | | |
| 2.28 | -3.12 | -4.51 | | |
| 1.88 | -1.35 | -2.46 | | |
| 1.86 | -2.2 | -3.3 | | |
| 1.77 | -4.08 | -5.11 | | |
| 2.09 | 1.41 | 0 | | |
| 1.75 | 0.34 | -0.81 | | |
| -3.62 | -2.71 | -1.2 | | |
| 2.12 | 1.09 | -0.32 | | |
| 1.72 | -0.66 | -1.76 | | |
| 1.66 | -0.33 | -1.38 | | |
| 3.07 | 1.73 | 0.32 | | |
| -1.77 | 3.28 | 4.31 | | |
| 1.83 | -3.22 | -4.63 | | |
| 1.52 | -2.73 | -3.87 | | |
| -4.53 | -2.86 | -1.21 | | |
| 1.75 | -0.99 | -2.39 | | |
| 1.42 | 4.23 | 3.13 | | |
| 1.27 | -4.1 | -5.5 | | |
| 1.17 | 4.03 | 2.75 | | |
| 1.14 | 2.64 | 1.39 | | |
| 1.14 | 0.2 | -1.05 | | |
| 1.11 | -2.86 | -4.06 | | |
| -4.16 | -4 | -3.01 | | |
| 1.08 | -1.93 | -3.34 | | |
| 1.06 | 1.74 | 0.36 | | |
| -1.04 | 4.94 | 3.69 | | |
| -1.05 | 4.93 | 3.71 | | |
| -1.08 | 4 | 2.82 | | |
| -1.09 | -0.69 | -1.86 | | |
| -1.16 | 3.99 | 2.9 | | |
| -1.19 | 0.94 | -0.12 | | |
| -4.96 | 0.3 | 1.31 | | |
| 1.07 | 5.2 | 3.8 | | |
| -1.01 | -2.16 | -3.47 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.13 | -1.59 | -2.73 | | |
| -1.17 | 1.07 | -0.02 | | |
| -6.31 | -2.9 | -1.55 | | |
| 2.49 | 1.12 | -0.28 | | |
| 2.01 | 3.05 | 1.95 | | |
| -2.89 | -2.38 | -0.94 | | |
| 1.16 | -5.74 | -7.15 | | |
| 1.13 | -3.76 | -5.12 | | |
| -1.01 | -2.32 | -3.5 | | |
| -1.08 | -5.39 | -6.46 | | |
| -1.11 | -3.46 | -4.49 | | |
| -1.13 | -4.44 | -5.45 | | |
| -5.12 | 0.05 | 1.22 | | |
| -6.02 | -5.53 | -4.13 | | |
| -10.06 | -7.29 | -5.14 | | |
| -11.46 | -3.4 | -1.07 | | |
| 1.5 | 0.49 | -0.91 | | |
| 1.32 | 0.96 | -0.27 | | |
| 1.28 | 1.21 | 0.03 | | |
| 1.26 | -1.3 | -2.46 | | |
| 1.13 | 2.33 | 1.33 | | |
| -3.74 | -0.91 | 0.17 | | |
| -3.97 | -1.49 | -0.32 | | |
| -4.13 | -1.25 | -0.03 | | |
| -6.56 | -2.31 | -0.42 | | |
| 1.16 | -5.74 | -7.15 | | |
| 1.13 | -3.76 | -5.12 | | |
| -1.01 | -2.32 | -3.5 | | |
| -1.08 | -5.39 | -6.46 | | |
| -1.11 | -3.46 | -4.49 | | |
| -1.13 | -4.44 | -5.45 | | |
| -5.12 | 0.05 | 1.22 | | |
| -6.02 | -5.53 | -4.13 | | |
| -10.06 | -7.29 | -5.14 | | |
| -11.46 | -3.4 | -1.07 | | |
| 1.5 | 0.49 | -0.91 | | |
| 1.32 | 0.96 | -0.27 | | |
| 1.28 | 1.21 | 0.03 | | |
| 1.26 | -1.3 | -2.46 | | |
| 1.13 | 2.33 | 1.33 | | |
| -3.74 | -0.91 | 0.17 | | |
| -3.97 | -1.49 | -0.32 | | |
| -4.13 | -1.25 | -0.03 | | |
| -6.56 | -2.31 | -0.42 | | |
| 1.5 | 0.49 | -0.91 | | |
| 1.32 | 0.96 | -0.27 | | |
| 1.28 | 1.21 | 0.03 | | |
| 1.26 | -1.3 | -2.46 | | |
| 1.13 | 2.33 | 1.33 | | |
| -3.74 | -0.91 | 0.17 | | |
| -3.97 | -1.49 | -0.32 | | |
| -4.13 | -1.25 | -0.03 | | |
| -6.56 | -2.31 | -0.42 | | |
| 1.5 | 0.49 | -0.91 | | |
| 1.4 | 1.65 | 0.35 | | |
| 1.28 | 1.21 | 0.03 | | |
| 1.28 | -1.03 | -2.21 | | |
| 1.13 | 2.33 | 1.33 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.74 | -0.91 | 0.17 | | |
| -4.13 | -1.25 | -0.03 | | |
| -6.56 | -2.31 | -0.42 | | |
| 1.5 | 0.49 | -0.91 | | |
| 1.28 | 1.21 | 0.03 | | |
| 1.26 | -1.3 | -2.46 | | |
| 1.19 | -1.15 | -2.23 | | |
| 1.19 | -0.03 | -1.1 | | |
| 1.13 | 2.33 | 1.33 | | |
| -3.74 | -0.91 | 0.17 | | |
| -4.13 | -1.25 | -0.03 | | |
| -6.56 | -2.31 | -0.42 | | |
| 2.07 | 1.98 | 0.57 | | |
| 1.66 | 0.53 | -0.56 | | |
| 1.56 | -0.28 | -1.28 | | |
| -2.84 | -0.74 | 0.41 | | |
| -2.88 | -1.1 | 0.07 | | |
| -3.48 | -1.92 | -0.48 | | |
| 1.27 | -3.41 | -4.81 | | |
| 1.01 | -3 | -4.07 | | |
| -1.03 | -3.19 | -4.19 | | |
| -4.27 | -4.74 | -3.7 | | |
| 1.5 | -0.41 | -1.81 | | |
| 1.29 | 0.81 | -0.37 | | |
| 1.25 | 0.1 | -1.03 | | |
| 1.22 | -1.48 | -2.58 | | |
| 1.18 | -0.21 | -1.26 | | |
| 4.81 | -0.92 | -2.32 | | |
| -1.21 | -2.27 | -1.13 | | |
| 1.76 | 1.61 | 0.21 | | |
| 1.6 | -2.56 | -3.82 | | |
| 1.39 | -0.76 | -1.82 | | |
| 1.38 | 0.4 | -0.64 | | |
| -4.74 | -2.78 | -1.12 | | |
| 6 | -0.54 | -1.94 | | |
| 1.1 | -0.25 | 0.8 | | |
| 1.06 | -1.22 | -0.12 | | |
| -1.01 | 3.98 | 5.19 | | |
| -1.1 | -0.78 | 0.53 | | |
| -1.16 | -1.36 | 0.04 | | |
| -1.22 | -2.96 | -1.49 | | |
| -1.23 | 0.26 | 1.75 | | |
| -1.67 | -0.63 | 1.29 | | |
| -1.81 | -0.6 | 1.44 | | |
| -1.06 | -5.66 | -7.07 | | |
| -12.3 | -5.12 | -2.98 | | |
| 1.43 | 2.71 | 1.31 | | |
| -5.34 | -1.62 | -0.08 | | |
| 1.47 | 1.39 | -0.01 | | |
| 1.13 | 2.57 | 1.54 | | |
| 2.51 | 2.11 | 0.71 | | |
| -2.43 | -1.7 | -0.49 | | |
| -2.49 | -2.51 | -1.26 | | |
| -2.5 | -1.97 | -0.72 | | |
| -2.6 | -1.62 | -0.31 | | |
| -2.93 | -1.9 | -0.43 | | |
| -3.32 | -2.3 | -0.64 | | |
| 1.36 | -2.83 | -4.23 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.25 | -1.23 | -2.52 | | |
| 1.12 | -0.96 | -2.08 | | |
| 1.04 | -0.04 | -1.06 | | |
| -4.2 | -3.39 | -2.29 | | |
| 1.78 | -3.22 | -4.62 | | |
| 1.65 | -1.57 | -2.86 | | |
| 1.39 | -4.18 | -5.23 | | |
| -3.19 | -6 | -4.9 | | |
| 1.94 | 0.19 | -1.21 | | |
| 1.71 | -1.08 | -2.29 | | |
| 1.63 | -1.11 | -2.27 | | |
| 1.53 | -0.23 | -1.29 | | |
| -1.08 | -3.02 | -4.42 | | |
| -1.32 | -0.29 | -1.4 | | |
| 2.65 | 2.94 | 1.54 | | |
| -2 | -2 | -0.99 | | |
| -2.37 | -1.36 | -0.11 | | |
| 1.54 | 1.87 | 0.47 | | |
| 1.55 | -2.92 | -4.32 | | |
| 1.41 | -3.16 | -4.43 | | |
| 1.39 | -3.03 | -4.28 | | |
| 1.27 | 0.83 | -0.29 | | |
| 1.21 | -4.3 | -5.35 | | |
| 1.21 | -1.71 | -2.75 | | |
| 1.17 | 3.52 | 2.52 | | |
| -5.18 | -3.93 | -2.33 | | |
| 1.6 | -1.15 | -2.54 | | |
| 1.51 | 2.91 | 1.6 | | |
| 1.48 | 4.37 | 3.09 | | |
| 1.47 | -1.94 | -3.21 | | |
| 1.24 | -0.12 | -1.15 | | |
| 1.23 | 0.34 | -0.68 | | |
| 1.23 | 0.38 | -0.63 | | |
| 1.22 | -0.24 | -1.24 | | |
| -3.6 | -1.68 | -0.55 | | |
| -4.03 | -0.97 | 0.33 | | |
| -4.46 | -2.62 | -1.18 | | |
| 1.5 | 0.03 | -1.37 | | |
| 1.32 | 0.5 | -0.72 | | |
| 1.28 | 0.75 | -0.42 | | |
| 1.26 | -1.76 | -2.91 | | |
| 1.13 | 1.88 | 0.87 | | |
| -3.74 | -1.37 | -0.29 | | |
| -3.97 | -1.95 | -0.78 | | |
| -4.13 | -1.71 | -0.48 | | |
| -6.56 | -2.77 | -0.88 | | |
| 2.05 | -0.41 | -1.81 | | |
| 1.96 | -2.09 | -3.43 | | |
| 1.55 | -1.62 | -2.62 | | |
| 14.8 | 1.37 | -0.03 | | |
| 11.66 | -0.27 | -1.32 | | |
| 2.79 | -0.19 | 0.83 | | |
| 2.55 | -1.53 | -0.39 | | |
| 2.35 | 0.47 | 1.74 | | |
| 2.1 | -3.66 | -2.24 | | |
| 2.09 | 0.09 | 1.52 | | |
| 1.73 | 1 | 2.7 | | |
| 1.54 | -1.91 | -0.04 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.2 | -2.49 | -0.26 | | |
| -1.12 | -5.38 | -2.73 | | |
| -1.13 | -2.51 | 0.17 | | |
| 2.58 | 1.18 | -0.21 | | |
| 2.4 | 1.41 | 0.12 | | |
| 2.75 | 3.17 | 1.77 | | |
| -1.95 | -1.73 | -0.7 | | |
| -2.95 | -3.48 | -1.85 | | |
| -3.78 | -4.13 | -2.15 | | |
| 1.55 | 1.65 | 0.25 | | |
| 1.3 | -1.11 | -2.26 | | |
| 1.24 | -0.08 | -1.16 | | |
| 1.19 | 1.24 | 0.22 | | |
| -3.44 | -1.17 | -0.15 | | |
| 1.57 | 1.08 | -0.31 | | |
| -3.53 | -0.25 | 0.82 | | |
| -4 | -2.46 | -1.2 | | |
| 1.94 | -0.18 | -1.57 | | |
| 1.59 | 2.33 | 1.22 | | |
| 2.09 | 0.88 | -0.51 | | |
| 1.83 | 2.92 | 1.71 | | |
| 5.31 | 1.65 | 0.26 | | |
| 4.96 | -0.03 | -1.32 | | |
| 4.16 | 0.76 | -0.28 | | |
| 4.15 | 0.21 | -0.83 | | |
| -1.04 | 0.8 | 1.88 | | |
| -1.05 | 0.56 | 1.66 | | |
| -1.06 | 1.12 | 2.22 | | |
| -1.13 | 2.02 | 3.21 | | |
| -1.2 | -1.64 | -0.36 | | |
| -1.67 | 0.94 | 2.69 | | |
| 4.46 | 1.38 | -0.02 | | |
| 3.79 | 2.47 | 1.31 | | |
| 3.78 | 1.64 | 0.49 | | |
| 3.57 | 4.27 | 3.2 | | |
| 3.44 | 2.56 | 1.55 | | |
| -1.18 | -1.86 | -0.86 | | |
| -1.19 | -0.94 | 0.07 | | |
| -1.66 | -0.77 | 0.72 | | |
| 1.5 | -5.59 | -6.99 | | |
| 1.46 | -2.99 | -4.33 | | |
| 1.39 | -3.81 | -5.1 | | |
| 1.32 | -1.87 | -3.07 | | |
| 1.28 | -6.07 | -7.23 | | |
| 1.19 | -4.42 | -5.48 | | |
| 1.16 | -0.02 | -1.04 | | |
| -3.98 | -4.31 | -3.12 | | |
| -1.01 | -2.12 | -3.51 | | |
| -1.16 | 1.73 | 0.54 | | |
| -1.16 | -0.42 | -1.62 | | |
| -5.34 | -2.92 | -1.91 | | |
| 1.99 | -4.4 | -5.79 | | |
| -2.92 | -2.11 | -0.97 | | |
| -3.24 | -4.38 | -3.09 | | |
| -3.34 | -3.21 | -1.88 | | |
| -3.5 | -2.24 | -0.84 | | |
| -3.49 | -1.23 | 0.18 | | |
| -4.02 | -2.59 | -0.98 | | |

| | | | | |
|--------|-------|-------|--|--|
| -4.17 | -2.56 | -0.9 | | |
| -4.2 | -6.52 | -4.86 | | |
| -4.24 | -6.14 | -4.46 | | |
| -4.28 | -2.93 | -1.23 | | |
| -4.33 | -2.25 | -0.54 | | |
| -4.33 | -3.85 | -2.13 | | |
| -4.82 | -3.44 | -1.57 | | |
| -5.11 | -3.47 | -1.52 | | |
| -6.47 | -4.48 | -2.19 | | |
| -6.93 | -5.87 | -3.49 | | |
| 1.97 | -0.54 | -1.94 | | |
| 1.83 | -0.96 | -2.25 | | |
| -2.91 | -3.78 | -2.65 | | |
| 1.75 | -3.21 | -4.6 | | |
| 1.43 | -3.39 | -4.5 | | |
| 1.73 | -1.97 | -3.36 | | |
| -3.07 | -0.1 | 0.91 | | |
| 2.89 | -1.19 | -2.59 | | |
| 2.79 | 2.55 | 1.2 | | |
| -2.42 | 1.45 | 2.87 | | |
| 1.46 | -3.59 | -4.99 | | |
| 1.34 | 1.09 | -0.18 | | |
| 1.24 | -1.27 | -2.43 | | |
| -3.97 | 0.07 | 1.21 | | |
| -5.36 | -1.2 | 0.38 | | |
| -6.57 | -1.12 | 0.74 | | |
| -7.15 | -1.97 | 0.02 | | |
| -8.13 | -2.78 | -0.61 | | |
| -24.33 | -3.08 | 0.68 | | |
| 2.06 | 1.39 | 0 | | |
| 1.8 | -1.05 | -2.25 | | |
| 1.66 | 2.72 | 1.64 | | |
| 3.97 | 1.88 | 0.49 | | |
| 3.12 | 0.74 | -0.31 | | |
| -1.42 | -1.22 | -0.11 | | |
| -2.19 | -2.79 | -1.07 | | |
| 1.55 | 0.29 | -1.11 | | |
| 1.53 | 0.03 | -1.35 | | |
| 1.47 | -4.3 | -5.61 | | |
| 1.31 | -3.41 | -4.57 | | |
| 1.3 | -0.83 | -1.97 | | |
| 1.27 | 0.04 | -1.07 | | |
| 1.24 | -0.99 | -2.06 | | |
| 1.24 | -1.29 | -2.37 | | |
| 1.23 | -0.96 | -2.03 | | |
| 1.22 | -3.59 | -4.64 | | |
| 1.19 | 0.18 | -0.84 | | |
| -1.17 | 5.5 | 4.1 | | |
| -1.53 | -0.19 | -1.19 | | |
| -10.71 | -1.06 | 0.74 | | |
| 2.49 | 3.08 | 1.69 | | |
| -2.3 | -3.32 | -2.2 | | |
| -2.32 | -1.04 | 0.1 | | |
| -2.62 | -3.35 | -2.04 | | |
| -3.23 | -3.06 | -1.44 | | |
| -4.55 | -2.29 | -0.18 | | |
| 2.97 | 0.9 | -0.49 | | |
| 2.68 | 0.19 | -1.05 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.34 | 1.82 | 0.77 | | |
| -2.06 | -1.97 | -0.75 | | |
| -2.05 | -1.03 | 0.19 | | |
| -3.06 | -1.39 | 0.41 | | |
| -3.97 | 1.3 | 3.47 | | |
| 1.72 | -1.07 | -2.45 | | |
| 1.51 | -1.41 | -2.62 | | |
| 1.39 | -0.07 | -1.15 | | |
| 1.33 | -0.97 | -1.99 | | |
| 1.7 | 0.27 | -1.12 | | |
| 1.56 | -0.16 | -1.43 | | |
| 1.48 | 2.19 | 1 | | |
| 1.3 | -0.63 | -1.63 | | |
| 3.23 | 2.93 | 1.54 | | |
| -1.63 | -1.6 | -0.59 | | |
| 1.64 | -2.45 | -3.84 | | |
| 1.54 | -4.23 | -5.53 | | |
| 1.52 | 0.74 | -0.55 | | |
| 1.38 | -4.12 | -5.26 | | |
| 1.29 | -0.2 | -1.25 | | |
| 1.28 | 0.82 | -0.22 | | |
| -3.66 | -2.19 | -1 | | |
| 2.41 | -2.19 | -3.58 | | |
| 1.97 | -3.15 | -4.24 | | |
| -2.37 | -3.18 | -2.05 | | |
| -2.58 | -1.87 | -0.62 | | |
| 1.56 | -3.01 | -4.4 | | |
| 1.29 | -3.58 | -4.69 | | |
| 1.21 | -3.09 | -4.11 | | |
| 1.19 | -2.48 | -3.48 | | |
| 1.81 | -4.16 | -5.55 | | |
| 1.49 | -1.07 | -2.18 | | |
| 1.43 | -2.58 | -3.63 | | |
| -2.93 | -2.61 | -1.59 | | |
| -3.43 | -5.83 | -4.59 | | |
| 1.72 | 2.72 | 1.33 | | |
| 1.72 | -0.71 | -2.09 | | |
| 1.49 | 1.08 | -0.1 | | |
| 1.47 | 2.4 | 1.24 | | |
| 4.09 | -1.39 | -2.77 | | |
| 3.57 | -0.47 | -1.66 | | |
| -1.79 | -1.3 | 0.19 | | |
| -1.82 | -2.73 | -1.22 | | |
| 1.7 | -1.8 | -3.19 | | |
| 1.62 | -0.6 | -1.91 | | |
| 1.44 | -0.76 | -1.91 | | |
| 1.89 | 1.66 | 0.27 | | |
| 1.68 | 1.98 | 0.75 | | |
| -3.22 | -1.54 | -0.33 | | |
| 8.72 | 0.16 | -1.22 | | |
| 1.57 | -0.19 | 0.9 | | |
| 1.35 | -1.56 | -0.25 | | |
| 1.01 | 1.66 | 3.38 | | |
| -1.05 | -1.06 | 0.75 | | |
| 1.22 | -2.64 | -4.03 | | |
| -4.81 | -6.32 | -5.16 | | |
| 2.22 | -0.84 | -2.23 | | |
| 1.81 | 1.12 | 0.03 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.74 | -1.95 | -2.99 | | |
| 1.55 | 4.03 | 2.65 | | |
| 1.41 | 3.09 | 1.83 | | |
| 1.35 | -1.25 | -2.44 | | |
| -3.67 | -2.62 | -1.5 | | |
| -5.21 | -2.99 | -1.37 | | |
| 2.72 | -2.42 | -3.8 | | |
| 2.12 | -2.86 | -3.89 | | |
| -1.92 | -1.81 | -0.81 | | |
| 1.4 | 3.84 | 2.46 | | |
| 1.4 | -3.82 | -5.2 | | |
| 1.21 | 3.07 | 1.9 | | |
| 2.61 | -0.96 | -2.34 | | |
| 2.57 | 0.72 | -0.64 | | |
| 2.38 | -1.72 | -2.97 | | |
| 2.32 | -0.23 | -1.44 | | |
| 2.22 | -1.49 | -2.64 | | |
| -3.04 | -3.61 | -2.01 | | |
| 1.23 | 2.94 | 1.55 | | |
| 1.01 | 2.63 | 1.53 | | |
| -1.06 | -3.1 | -4.1 | | |
| -6.12 | -2.22 | -0.69 | | |
| 1.66 | -2.24 | -3.62 | | |
| 1.29 | -2.88 | -3.91 | | |
| -4.17 | -5.51 | -4.1 | | |
| 4.92 | -1.37 | -2.75 | | |
| 4.22 | -3.47 | -4.63 | | |
| 4.09 | -3.11 | -4.23 | | |
| -1.23 | -5.17 | -3.95 | | |
| 1.9 | -2.13 | -3.51 | | |
| 1.69 | -1.61 | -2.83 | | |
| 1.57 | -1.66 | -2.77 | | |
| -2.83 | -2.56 | -1.52 | | |
| -2.87 | 0.05 | 1.11 | | |
| -2.93 | -0.67 | 0.42 | | |
| -2.94 | 1.18 | 2.28 | | |
| -2.98 | -2.17 | -1.06 | | |
| -2.97 | 1.21 | 2.32 | | |
| -2.98 | 1.01 | 2.12 | | |
| -3.01 | 2.48 | 3.61 | | |
| -3.03 | -0.89 | 0.25 | | |
| -3.09 | -0.79 | 0.38 | | |
| -3.64 | 0.7 | 2.11 | | |
| -3.74 | 2.41 | 3.85 | | |
| -4.08 | 0.59 | 2.16 | | |
| -4.15 | -4.3 | -2.71 | | |
| -4.29 | -0.76 | 0.88 | | |
| -4.44 | 0.37 | 2.06 | | |
| -6.49 | -1.98 | 0.25 | | |
| 3.05 | -2.03 | -3.42 | | |
| -1.8 | -1.48 | -0.4 | | |
| 1.44 | -0.76 | -2.14 | | |
| 1.4 | 2.35 | 1.01 | | |
| 1.26 | -0.85 | -2.05 | | |
| 1.16 | 0.77 | -0.3 | | |
| 1.45 | -1.44 | -2.82 | | |
| 1.21 | -2.13 | -3.25 | | |
| 1.17 | 3.8 | 2.72 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.17 | 1.13 | 0.06 | | |
| 1.13 | 0.68 | -0.34 | | |
| -4 | -1.84 | -0.69 | | |
| 107.37 | 1.58 | 0.2 | | |
| 105.19 | 0.47 | -0.89 | | |
| 102.61 | 2.41 | 1.09 | | |
| 87.66 | 0.24 | -0.85 | | |
| 83.43 | 1.6 | 0.58 | | |
| 20.49 | 0.03 | 1.04 | | |
| 17.12 | -0.32 | 0.95 | | |
| 15.92 | -0.68 | 0.69 | | |
| 14.99 | -2.52 | -1.06 | | |
| 12.8 | -0.17 | 1.51 | | |
| 11.84 | -2.36 | -0.56 | | |
| 11.44 | -1.73 | 0.12 | | |
| 11.43 | -2.86 | -1.01 | | |
| 11.29 | 1.04 | 2.91 | | |
| 10.24 | -2.64 | -0.63 | | |
| 9.57 | -3.19 | -1.08 | | |
| 9.29 | -2.24 | -0.09 | | |
| 8.99 | -3.35 | -1.15 | | |
| 6.28 | -3.58 | -0.86 | | |
| 5.95 | -3.68 | -0.89 | | |
| 5.25 | -3.28 | -0.31 | | |
| 3.73 | -0.22 | 3.25 | | |
| 3.4 | -4.03 | -0.43 | | |
| 2.69 | -3.43 | 0.51 | | |
| 2.08 | -3.93 | 0.38 | | |
| 1.9 | -4.89 | -0.45 | | |
| 1.89 | -4.27 | 0.18 | | |
| 1.87 | -5.4 | -0.94 | | |
| 1.61 | -5.76 | -1.08 | | |
| 1.19 | -1.24 | 3.88 | | |
| 1.15 | 2.39 | 7.55 | | |
| 1.11 | -0.21 | 5.01 | | |
| -1.24 | -4.48 | 1.19 | | |
| -1.4 | -3.34 | 2.5 | | |
| 1.44 | 1.95 | 0.56 | | |
| 1.42 | 1.57 | 0.21 | | |
| 1.26 | 0.67 | -0.52 | | |
| 1.23 | 0.24 | -0.92 | | |
| 1.12 | -0.96 | -1.98 | | |
| -4.59 | -0.64 | 0.7 | | |
| -6.68 | -0.98 | 0.91 | | |
| 1.64 | -0.3 | -1.68 | | |
| 1.32 | -0.86 | -1.93 | | |
| -4.59 | -2.83 | -1.3 | | |
| -4.68 | -1.88 | -0.32 | | |
| -8.84 | -3.52 | -1.04 | | |
| 1.6 | 0.36 | -1.02 | | |
| 1.26 | 1.78 | 0.73 | | |
| 1.23 | 2.01 | 1 | | |
| -4.26 | -2.17 | -0.79 | | |
| 3.53 | -1.71 | -3.09 | | |
| -1.56 | -1.15 | -0.07 | | |
| -1.59 | 4.1 | 5.21 | | |
| -1.82 | -2.64 | -1.33 | | |
| -2.27 | -1.13 | 0.5 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.31 | -0.38 | -1.75 | | |
| 1.22 | 0.44 | -0.82 | | |
| 1.17 | 0.1 | -1.11 | | |
| 1.86 | -6.55 | -7.93 | | |
| 1.75 | -3.44 | -4.73 | | |
| 1.71 | -2.35 | -3.61 | | |
| 1.59 | -4.64 | -5.79 | | |
| 2.14 | 4.21 | 2.83 | | |
| 2.06 | -2.09 | -3.41 | | |
| 2.02 | 3.49 | 2.19 | | |
| 1.88 | 1.36 | 0.17 | | |
| 1.73 | 2.54 | 1.47 | | |
| -2.45 | -0.97 | 0.04 | | |
| -2.45 | 0.57 | 1.58 | | |
| -2.58 | -2.13 | -1.05 | | |
| -4.93 | -2.53 | -0.51 | | |
| -4.95 | -0.19 | 1.83 | | |
| -1.01 | -4.34 | -5.72 | | |
| -5.45 | -9.45 | -8.4 | | |
| -5.66 | -7.27 | -6.17 | | |
| -5.86 | -3.81 | -2.65 | | |
| -6.77 | -5.56 | -4.2 | | |
| -6.77 | -7.24 | -5.88 | | |
| -7.17 | -3.85 | -2.41 | | |
| -7.56 | -5.13 | -3.61 | | |
| 2.13 | 1.9 | 0.51 | | |
| -2.46 | 0.67 | 1.68 | | |
| -2.52 | -0.28 | 0.76 | | |
| -2.61 | -0.26 | 0.83 | | |
| -2.75 | -1.28 | -0.12 | | |
| 3.58 | 0.59 | -0.79 | | |
| -1.47 | -2.3 | -1.28 | | |
| -2.12 | -2.65 | -1.1 | | |
| 1.38 | -1.2 | -2.58 | | |
| 1.22 | 3.08 | 1.89 | | |
| 1.09 | 3.26 | 2.22 | | |
| 3.03 | 1.3 | -0.08 | | |
| -2.8 | -4.23 | -2.53 | | |
| 2.06 | -0.57 | -1.95 | | |
| 1.91 | -4.56 | -5.83 | | |
| 1.78 | -5.1 | -6.27 | | |
| -2.6 | -5.63 | -4.59 | | |
| -4.51 | -4.64 | -2.8 | | |
| 1.28 | 6 | 4.62 | | |
| 1.27 | 0.53 | -0.84 | | |
| 1.12 | 1.8 | 0.61 | | |
| 1.11 | -2.14 | -3.32 | | |
| 1.08 | 1.54 | 0.4 | | |
| 2.81 | -0.81 | -2.19 | | |
| 2.32 | -2.69 | -3.79 | | |
| 2.19 | -1.6 | -2.62 | | |
| 1.32 | -1.58 | -2.96 | | |
| 1.07 | -4.5 | -5.58 | | |
| 1.05 | -4.09 | -5.14 | | |
| -5.54 | -5.89 | -4.4 | | |
| 1.94 | -6.01 | -7.39 | | |
| 1.56 | -3.95 | -5.01 | | |
| -5.2 | -7.85 | -5.89 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.44 | 1.15 | -0.23 | | |
| 1.94 | 0.4 | -0.65 | | |
| 2.32 | -6.18 | -7.56 | | |
| -2.45 | -4.63 | -3.5 | | |
| -2.72 | -5.77 | -4.49 | | |
| -2.9 | -6.51 | -5.13 | | |
| 8.42 | 1.11 | -0.26 | | |
| 1.34 | -1.81 | -0.53 | | |
| 1.04 | 1.9 | 3.54 | | |
| -1.07 | 2.93 | 4.72 | | |
| -1.11 | -0.61 | 1.24 | | |
| 2.26 | -1.23 | -2.61 | | |
| 1.88 | 1.3 | 0.19 | | |
| -2.57 | -2.47 | -1.31 | | |
| -2.75 | -2.97 | -1.72 | | |
| -3.21 | -4.1 | -2.62 | | |
| 2.06 | -0.64 | -2.02 | | |
| 1.69 | -0.04 | -1.13 | | |
| -2.55 | 0.08 | 1.1 | | |
| -2.71 | -2.67 | -1.57 | | |
| -3.14 | -1.77 | -0.46 | | |
| -7.47 | -4.15 | -1.58 | | |
| 1.88 | -0.84 | -2.22 | | |
| 1.74 | 0.41 | -0.85 | | |
| 1.68 | 0.98 | -0.22 | | |
| 1.63 | 1.33 | 0.16 | | |
| 1.61 | 0 | -1.16 | | |
| 1.56 | -1.91 | -3.01 | | |
| 3.02 | 2.2 | 0.82 | | |
| -1.76 | -2.48 | -1.45 | | |
| -2.28 | 2.52 | 3.93 | | |
| 1.31 | 1.77 | 0.39 | | |
| 1.16 | 2.79 | 1.59 | | |
| 1.09 | -2.51 | -3.61 | | |
| 1.49 | -2.62 | -3.99 | | |
| 1.27 | -2.93 | -4.07 | | |
| 1.24 | -0.92 | -2.04 | | |
| 1.22 | -1.83 | -2.91 | | |
| 1.21 | -2.64 | -3.71 | | |
| 1.19 | -4.89 | -5.95 | | |
| -3.85 | -3.25 | -2.1 | | |
| -4.91 | -4.53 | -3.03 | | |
| 2.11 | -3.16 | -4.54 | | |
| 1.98 | -3.3 | -4.58 | | |
| -2.49 | -1.55 | -0.54 | | |
| 3.45 | -3.62 | -4.99 | | |
| -1.62 | -3.96 | -2.84 | | |
| 1.57 | -0.7 | -2.08 | | |
| 1.41 | -1.73 | -2.95 | | |
| 1.36 | -0.53 | -1.69 | | |
| 1.34 | -2.48 | -3.63 | | |
| 1.27 | -2.74 | -3.8 | | |
| 1.26 | 0.09 | -0.96 | | |
| 1.24 | -3.95 | -4.99 | | |
| 1.22 | -1.87 | -2.88 | | |
| -3.61 | -4.12 | -2.99 | | |
| -5.8 | -5.36 | -3.55 | | |
| 9.89 | -0.2 | -1.58 | | |

| | | | | |
|-------|-------|-------|--|--|
| 8.57 | -1.3 | -2.47 | | |
| 8.21 | -0.89 | -2 | | |
| 1.86 | -4.78 | -3.75 | | |
| 1.82 | -4.63 | -3.56 | | |
| 1.32 | -1 | 0.53 | | |
| 1.25 | -1.57 | 0.05 | | |
| 1.16 | 3 | 4.71 | | |
| 1.14 | -3.05 | -1.31 | | |
| 1.07 | -5.05 | -3.22 | | |
| -1.02 | -5.02 | -3.06 | | |
| -1.03 | -4.38 | -2.41 | | |
| -1.19 | -0.33 | 1.84 | | |
| -1.21 | -5.42 | -3.22 | | |
| -1.21 | -2.91 | -0.71 | | |
| -1.23 | -4.27 | -2.04 | | |
| -1.68 | -3.46 | -0.78 | | |
| 2 | -0.51 | -1.88 | | |
| 1.81 | -0.71 | -1.94 | | |
| 1.75 | -0.15 | -1.33 | | |
| 1.61 | 1.17 | 0.1 | | |
| 1.56 | 1.81 | 0.8 | | |
| -2.94 | 1.08 | 2.27 | | |
| 1.84 | -1.53 | -2.91 | | |
| 1.79 | -1.13 | -2.47 | | |
| 1.77 | -1.47 | -2.79 | | |
| 1.44 | -3.32 | -4.33 | | |
| 11.04 | -4.14 | -5.51 | | |
| 2.12 | -5.1 | -4.09 | | |
| 1.92 | -7.71 | -6.56 | | |
| 1.74 | -6.58 | -5.28 | | |
| 1.62 | -2.98 | -1.59 | | |
| 1.43 | -4.28 | -2.71 | | |
| 1.38 | -6.93 | -5.31 | | |
| 1.18 | -5.1 | -3.25 | | |
| 1.13 | -5.1 | -3.19 | | |
| 1.07 | -7.27 | -5.28 | | |
| 1.06 | -4.67 | -2.66 | | |
| -1.04 | -2.58 | -0.44 | | |
| -1.08 | -6.55 | -4.35 | | |
| -1.08 | -5.53 | -3.33 | | |
| -1.2 | -5.05 | -2.7 | | |
| 12.55 | 0.72 | -0.65 | | |
| 12.49 | 0.28 | -1.08 | | |
| 9.69 | 1.02 | 0.02 | | |
| 2.43 | -1.09 | -0.09 | | |
| 2.43 | -0.83 | 0.17 | | |
| 2.34 | 0.54 | 1.59 | | |
| 1.92 | -0.83 | 0.51 | | |
| 1.74 | -1.27 | 0.21 | | |
| 1.71 | -3.55 | -2.05 | | |
| 1.57 | -1.84 | -0.21 | | |
| 1.3 | -0.4 | 1.49 | | |
| 1.23 | -0.62 | 1.36 | | |
| 1.14 | 0.01 | 2.1 | | |
| 1.1 | -0.21 | 1.93 | | |
| 1.02 | 0.37 | 2.62 | | |
| -1.06 | -3.12 | -0.76 | | |
| -1.52 | -2.41 | 0.46 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.53 | -2.79 | 0.1 | | |
| 2.39 | 0.47 | -0.9 | | |
| -2.18 | -4.78 | -3.77 | | |
| -2.58 | -5.27 | -4.01 | | |
| -2.73 | -4.33 | -3 | | |
| -3.21 | -5.38 | -3.81 | | |
| -5.88 | -4.39 | -1.95 | | |
| -6.59 | -4.92 | -2.32 | | |
| 1.58 | 0.72 | -0.65 | | |
| 1.37 | -0.56 | -1.73 | | |
| 1.33 | -1.02 | -2.15 | | |
| 1.29 | -3.52 | -4.61 | | |
| 1.29 | 0.46 | -0.63 | | |
| 1.27 | 1.83 | 0.77 | | |
| -5.38 | -3.92 | -2.21 | | |
| 9.72 | -2.13 | -3.5 | | |
| 1.67 | -2.16 | -0.99 | | |
| 1.64 | -8.25 | -7.06 | | |
| 1.58 | -4.66 | -3.4 | | |
| 1.54 | -6.09 | -4.8 | | |
| 1.49 | -5.26 | -3.92 | | |
| 1.49 | -4.64 | -3.31 | | |
| 1.43 | -3.91 | -2.51 | | |
| 1.42 | -4.06 | -2.65 | | |
| 1.28 | -4.6 | -3.05 | | |
| 1.26 | -5.75 | -4.18 | | |
| 1.15 | -5.71 | -4 | | |
| 1.11 | -4.8 | -3.04 | | |
| 1.09 | -4.83 | -3.04 | | |
| 1.02 | -2.55 | -0.67 | | |
| -1.01 | -2.3 | -0.38 | | |
| -1.06 | -5.01 | -3.03 | | |
| -1.1 | -4.41 | -2.35 | | |
| -1.22 | -0.56 | 1.63 | | |
| -1.42 | -4.37 | -1.96 | | |
| 1.31 | 0.14 | -1.23 | | |
| 1.22 | -3.79 | -5.07 | | |
| -4.55 | -2.38 | -1.18 | | |
| -4.68 | -1.64 | -0.4 | | |
| 2.26 | -0.8 | -2.18 | | |
| 2.03 | 1.47 | 0.25 | | |
| 1.87 | -2.47 | -3.57 | | |
| 2.14 | -1.82 | -3.19 | | |
| 1.99 | -2.6 | -3.87 | | |
| 2.34 | -1.71 | -3.09 | | |
| -2.42 | -3.33 | -2.2 | | |
| 2.08 | -1.03 | -2.4 | | |
| 1.65 | 0.64 | -0.4 | | |
| 1.63 | -2.69 | -3.71 | | |
| 1.54 | -1.21 | -2.59 | | |
| -3.83 | -1.16 | 0.02 | | |
| -4.01 | -1.77 | -0.52 | | |
| -4.1 | -3.61 | -2.33 | | |
| -4.18 | -1.51 | -0.2 | | |
| -6.59 | -2.96 | -1 | | |
| -6.94 | -2.27 | -0.23 | | |
| 1.26 | -1.77 | -3.14 | | |
| 1.04 | 0.2 | -0.89 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.04 | 2.19 | 1.1 | | |
| 1.75 | 0.24 | -1.13 | | |
| 1.57 | -0.96 | -2.17 | | |
| -3.59 | -2.98 | -1.7 | | |
| 1.12 | 1.4 | 0.02 | | |
| 1.09 | 1.73 | 0.4 | | |
| 1.09 | 2.83 | 1.49 | | |
| -1.02 | 1.58 | 0.39 | | |
| -1.09 | 1.84 | 0.75 | | |
| -6.65 | -1.07 | 0.45 | | |
| 2.27 | -1.03 | -2.4 | | |
| 1.86 | -1.8 | -2.89 | | |
| 4.84 | -2.71 | -4.08 | | |
| -1.24 | -4.57 | -3.36 | | |
| 2.64 | 5.77 | 4.39 | | |
| 2.4 | 0.58 | -0.66 | | |
| 2.03 | 2.64 | 1.64 | | |
| 3.78 | 1.7 | 0.33 | | |
| -1.37 | -1.66 | -0.65 | | |
| -1.97 | -2.32 | -0.78 | | |
| -2.12 | -4.5 | -5.87 | | |
| -2.19 | -1.2 | -2.52 | | |
| -2.38 | -3.91 | -5.11 | | |
| -21.21 | -6.12 | -4.17 | | |
| 4.39 | 1.64 | 0.28 | | |
| 3.7 | 0.42 | -0.7 | | |
| -1.19 | -1.65 | -0.63 | | |
| -1.29 | 3.22 | 4.36 | | |
| 1.32 | -1.22 | -2.59 | | |
| 1.27 | -0.04 | -1.35 | | |
| 1.17 | 1.8 | 0.6 | | |
| 1.14 | -0.2 | -1.36 | | |
| -4.1 | 0.81 | 1.88 | | |
| -4.36 | 0.61 | 1.76 | | |
| -4.52 | -0.33 | 0.88 | | |
| -4.8 | -1.19 | 0.11 | | |
| 2 | -1.03 | -2.39 | | |
| 1.62 | -1.21 | -2.27 | | |
| -2.83 | -0.74 | 0.39 | | |
| 2.23 | -2.22 | -3.59 | | |
| 1.83 | -3.36 | -4.44 | | |
| 3.66 | 0.9 | -0.47 | | |
| 3.25 | -0.09 | -1.28 | | |
| -1.53 | -3.79 | -2.67 | | |
| -1.58 | -1.98 | -0.82 | | |
| -1.97 | -4.7 | -3.22 | | |
| -1.97 | -4.13 | -2.64 | | |
| 1.64 | 0.12 | -1.25 | | |
| 1.39 | -2.22 | -3.34 | | |
| 2.58 | -4.64 | -6.01 | | |
| 2.43 | 3.86 | 2.58 | | |
| 2.17 | -3.65 | -4.77 | | |
| -4.06 | -5.92 | -3.9 | | |
| 2.29 | -5.96 | -7.32 | | |
| -2.27 | -6.81 | -5.8 | | |
| -4.03 | -6.89 | -5.05 | | |
| 1.67 | 4.05 | 2.68 | | |
| 1.66 | -1.11 | -2.47 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.22 | 1.43 | 0.06 | | |
| 1.11 | -0.84 | -2.08 | | |
| 1.04 | -0.93 | -2.07 | | |
| -10.7 | -4.75 | -2.41 | | |
| 3.56 | -0.58 | -1.94 | | |
| -1.45 | -3.82 | -2.82 | | |
| -1.46 | -2.48 | -1.47 | | |
| -1.49 | -4.35 | -3.32 | | |
| -1.51 | -2.8 | -1.75 | | |
| -1.53 | -3.16 | -2.08 | | |
| -1.53 | -2.15 | -1.08 | | |
| -1.54 | -2.95 | -1.86 | | |
| -1.58 | -2.91 | -1.79 | | |
| -1.72 | -4.42 | -3.18 | | |
| -1.94 | -3.5 | -2.08 | | |
| -2.02 | -4.04 | -2.56 | | |
| -2.19 | -0.48 | 1.11 | | |
| 6.43 | 0.67 | -0.7 | | |
| 6.02 | -0.63 | -1.9 | | |
| 5.79 | -0.28 | -1.5 | | |
| 5.16 | -1.23 | -2.28 | | |
| 1.23 | 1.81 | 2.82 | | |
| 1.18 | 1.04 | 2.12 | | |
| 1.11 | 0.47 | 1.64 | | |
| 1.08 | 1.5 | 2.71 | | |
| 1.04 | -4.32 | -3.07 | | |
| -1.95 | -4.2 | -1.92 | | |
| 1.94 | 3.16 | 1.79 | | |
| 1.66 | 0.09 | -1.05 | | |
| 1.91 | -4.16 | -5.53 | | |
| 1.85 | -6.77 | -8.09 | | |
| 1.5 | -4.79 | -5.81 | | |
| 2.29 | 0.34 | -1.02 | | |
| 2.18 | -0.29 | -1.58 | | |
| 1.77 | 1.3 | 0.3 | | |
| 1.74 | -2.4 | -3.77 | | |
| -2.98 | -2.02 | -1 | | |
| -3.08 | -4.16 | -3.1 | | |
| 1.24 | 2.7 | 1.34 | | |
| -4.42 | -0.58 | 0.51 | | |
| 1.69 | 0.37 | -0.99 | | |
| 1.63 | -3.51 | -4.82 | | |
| 1.51 | 0.64 | -0.56 | | |
| 1.42 | -1.39 | -2.5 | | |
| -3.74 | -1.8 | -0.5 | | |
| 1.94 | -4 | -5.37 | | |
| 1.82 | -4.32 | -5.59 | | |
| 1.58 | -4.24 | -5.3 | | |
| 2.1 | 0.54 | -0.82 | | |
| 1.79 | -0.33 | -1.46 | | |
| 1.68 | 0.11 | -0.93 | | |
| -2.56 | -3.26 | -2.19 | | |
| -2.66 | -4.19 | -3.07 | | |
| -2.92 | -2.91 | -1.66 | | |
| 1.51 | 3.57 | 2.21 | | |
| 1.46 | -1.17 | -2.48 | | |
| 1.31 | 4.54 | 3.39 | | |
| 1.3 | 4.17 | 3.03 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.29 | 4.67 | 3.53 | | |
| 1.23 | 5.48 | 4.42 | | |
| -3.77 | -0.3 | 0.85 | | |
| 2.34 | 1.17 | -0.19 | | |
| -2.8 | -3.41 | -2.06 | | |
| -2.95 | -2.05 | -0.62 | | |
| 2.42 | -1.26 | -2.62 | | |
| 1.88 | -1.1 | -2.1 | | |
| -2.46 | -2.88 | -1.67 | | |
| 1.2 | 0.66 | -0.7 | | |
| 1.04 | 2.2 | 1.05 | | |
| 1.02 | -2.27 | -3.41 | | |
| -1 | -3.13 | -4.22 | | |
| -1.01 | -3.43 | -4.51 | | |
| -1.05 | -4.14 | -5.17 | | |
| -4.69 | -2.6 | -1.47 | | |
| -7.23 | -3.29 | -1.54 | | |
| 4.81 | 0.92 | -0.45 | | |
| -1.16 | 1.69 | 2.8 | | |
| -1.18 | -1.9 | -0.76 | | |
| -1.19 | -3.22 | -2.06 | | |
| -1.21 | -3.24 | -2.07 | | |
| -1.25 | -0.89 | 0.33 | | |
| -1.42 | 3.07 | 4.48 | | |
| -1.48 | -3.87 | -2.4 | | |
| -1.55 | -2.11 | -0.57 | | |
| 2.69 | 1.05 | -0.32 | | |
| 2.21 | 1.5 | 0.42 | | |
| 2.18 | 0.53 | -0.53 | | |
| -1.96 | -0.87 | 0.17 | | |
| -2.02 | 2.35 | 3.43 | | |
| -2.05 | 1.73 | 2.83 | | |
| -2.09 | 0.1 | 1.22 | | |
| -2.25 | 2.76 | 3.99 | | |
| -3.36 | 0.94 | 2.76 | | |
| -3.98 | -0.54 | 1.52 | | |
| -4.74 | -0.44 | 1.86 | | |
| -5.89 | -1.09 | 1.53 | | |
| -5.99 | -0.22 | 2.43 | | |
| 1.75 | -4.11 | -5.47 | | |
| -3.39 | -1.85 | -0.63 | | |
| 1.77 | 3.73 | 2.36 | | |
| 1.63 | 3.42 | 2.17 | | |
| 1.45 | 0.19 | -0.89 | | |
| 1.43 | -1.61 | -2.66 | | |
| -2.95 | -1.17 | -0.15 | | |
| -3.3 | 0.08 | 1.26 | | |
| -4.03 | -0.82 | 0.65 | | |
| 1.9 | -0.83 | -2.19 | | |
| 1.58 | 2.64 | 1.55 | | |
| -3.28 | -2.76 | -1.48 | | |
| 2.83 | 0.61 | -0.75 | | |
| -2.2 | 0.25 | 1.52 | | |
| 2.49 | 0.18 | -1.18 | | |
| 2.03 | -1.99 | -3.06 | | |
| -2.39 | -2.61 | -1.4 | | |
| 4.85 | -0.26 | -1.62 | | |
| 4.79 | 0.26 | -1.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.69 | -0.89 | -2.2 | | |
| -1.28 | 0.62 | 1.89 | | |
| 1.61 | 1.26 | -0.11 | | |
| 1.31 | 1.71 | 0.65 | | |
| -1.07 | 1.19 | -0.17 | | |
| -6.86 | -3.6 | -2.28 | | |
| 1.74 | -1.17 | -2.53 | | |
| 1.71 | -0.5 | -1.84 | | |
| 1.69 | -0.78 | -2.11 | | |
| -3.02 | -0.84 | 0.19 | | |
| -3.94 | 0.24 | 1.65 | | |
| -6.29 | -2.09 | 0 | | |
| 3.59 | 1.11 | -0.25 | | |
| -1.54 | -2.06 | -0.95 | | |
| -2.04 | -0.34 | 1.17 | | |
| 2.92 | 1.27 | -0.09 | | |
| -1.98 | -4.27 | -3.09 | | |
| -3 | -2.72 | -0.94 | | |
| 1.66 | -1.98 | -3.34 | | |
| 1.52 | 0.36 | -0.88 | | |
| 1.35 | 2.39 | 1.32 | | |
| 1.32 | -2.41 | -3.44 | | |
| 1.3 | 1.85 | 0.84 | | |
| 1.95 | 1.26 | -0.11 | | |
| 1.84 | -0.51 | -1.79 | | |
| 1.68 | 0.76 | -0.38 | | |
| 1.6 | -0.67 | -1.74 | | |
| -2.76 | -3.58 | -2.52 | | |
| -3.43 | -3.79 | -2.41 | | |
| 3.1 | -0.37 | -1.73 | | |
| 2.57 | 2.21 | 1.12 | | |
| 2.38 | -4.19 | -5.55 | | |
| 2.23 | -3.04 | -4.3 | | |
| 2.08 | -0.63 | -1.8 | | |
| -3.54 | -4.26 | -2.54 | | |
| 1.38 | -1.27 | -2.63 | | |
| 1.31 | 3.45 | 2.16 | | |
| 2.13 | -2.17 | -3.52 | | |
| -2.44 | -2.2 | -1.18 | | |
| -2.85 | -3.39 | -2.15 | | |
| -3.72 | -2.94 | -1.31 | | |
| 1.61 | -3.48 | -4.84 | | |
| 1.53 | 1.4 | 0.11 | | |
| 1.41 | -0.89 | -2.06 | | |
| 1.27 | -3.97 | -4.99 | | |
| -3.19 | -1.89 | -0.89 | | |
| -3.2 | -2.64 | -1.63 | | |
| -3.32 | -1.53 | -0.47 | | |
| -3.4 | -2.11 | -1.02 | | |
| -4.34 | -3.68 | -2.23 | | |
| -4.79 | -4.14 | -2.56 | | |
| -8.67 | -3.54 | -1.1 | | |
| 2.05 | -2.21 | -3.56 | | |
| 1.84 | -1.41 | -2.61 | | |
| 2.2 | -2.2 | -3.56 | | |
| 2.12 | -1.95 | -3.25 | | |
| 1.76 | -1.34 | -2.37 | | |
| 7.19 | -2.46 | -3.82 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.31 | -1.32 | -0.22 | | |
| 1.21 | -0.04 | 1.17 | | |
| 1.13 | -0.17 | 1.14 | | |
| 1.13 | -0.09 | 1.24 | | |
| 1.09 | -3.27 | -1.9 | | |
| 1.01 | 0.65 | 2.13 | | |
| 1.84 | 2.17 | 0.81 | | |
| 1.5 | -0.1 | -1.17 | | |
| -3.59 | -2.59 | -1.22 | | |
| -3.7 | -2.32 | -0.91 | | |
| 2.78 | -0.91 | -2.26 | | |
| -1.85 | -3.32 | -2.31 | | |
| -2.58 | -2 | -0.51 | | |
| 2.67 | 0.26 | -1.1 | | |
| 2.66 | 2.29 | 0.94 | | |
| 2.23 | 0.69 | -0.41 | | |
| -2 | 0.2 | 1.25 | | |
| -2.09 | -0.86 | 0.26 | | |
| 3.73 | 1.19 | -0.16 | | |
| 3.23 | 1.82 | 0.68 | | |
| -1.41 | 0.39 | 1.43 | | |
| -1.61 | 0.15 | 1.38 | | |
| 2.43 | -4.09 | -5.45 | | |
| 2.18 | -1.3 | -2.51 | | |
| 1.92 | -0.17 | -1.19 | | |
| 121.07 | -2.12 | -3.48 | | |
| 96.8 | -0.01 | -1.04 | | |
| 17.54 | -0.45 | 0.97 | | |
| 14.48 | -5.95 | -4.25 | | |
| 3.06 | -7.54 | -3.59 | | |
| 1.94 | 0.14 | -1.21 | | |
| 1.54 | -1.05 | -2.08 | | |
| -2.69 | -1.63 | -0.6 | | |
| 1.25 | 2.7 | 1.34 | | |
| -4.24 | -2.59 | -1.54 | | |
| 1.81 | 0.68 | -0.68 | | |
| 1.48 | -1.04 | -2.1 | | |
| -3.01 | -1.14 | -0.06 | | |
| -3.4 | -2.85 | -1.59 | | |
| -3.77 | -4.65 | -3.23 | | |
| 1.25 | 4.69 | 3.33 | | |
| -4.25 | -1.28 | -0.23 | | |
| 2.17 | -5.9 | -7.26 | | |
| 1.76 | -5.19 | -6.25 | | |
| 1.21 | -2.26 | -3.61 | | |
| 1.14 | -2.74 | -4.01 | | |
| -1.05 | -0.62 | -1.63 | | |
| -6.42 | -3.31 | -1.7 | | |
| 1.65 | 1.2 | -0.15 | | |
| -3.39 | -0.29 | 0.85 | | |
| -3.58 | -1.08 | 0.13 | | |
| -3.67 | 1.11 | 2.36 | | |
| -3.76 | -1.04 | 0.25 | | |
| -3.78 | 0.43 | 1.72 | | |
| -4.3 | -0.48 | 1 | | |
| -4.38 | -1.33 | 0.17 | | |
| 1.61 | 3.64 | 2.29 | | |
| 1.55 | -0.76 | -2.06 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.47 | -4.52 | -5.74 | | |
| 1.45 | 0.27 | -0.94 | | |
| 1.33 | -0.34 | -1.41 | | |
| 1.3 | -0.94 | -1.98 | | |
| 1.3 | 0.11 | -0.93 | | |
| -3.5 | -1.96 | -0.82 | | |
| -5.15 | -4.87 | -3.18 | | |
| 2.37 | -3.02 | -4.37 | | |
| 2.08 | -0.85 | -2.01 | | |
| -2.47 | -2.65 | -1.45 | | |
| -3.07 | -5.25 | -3.73 | | |
| -4.99 | -5.51 | -3.3 | | |
| 2.53 | -2.9 | -4.25 | | |
| 2.07 | -3.61 | -4.68 | | |
| 2.06 | -3.12 | -4.18 | | |
| -2.32 | -4.13 | -2.93 | | |
| -2.69 | -3.82 | -2.41 | | |
| 1.83 | -0.87 | -2.22 | | |
| 1.66 | -3 | -4.21 | | |
| 1.64 | 1.77 | 0.57 | | |
| 1.49 | 0.27 | -0.79 | | |
| 2.62 | 0.77 | -0.59 | | |
| 2.54 | -0.67 | -1.97 | | |
| 5.46 | -0.45 | -1.8 | | |
| 4.34 | -1.87 | -2.89 | | |
| 1.01 | -5.49 | -4.41 | | |
| -1.02 | -3.45 | -2.32 | | |
| -1.14 | -5.38 | -4.1 | | |
| -1.21 | -6.17 | -4.8 | | |
| 3.19 | 3.76 | 2.41 | | |
| -1.96 | -3.08 | -1.79 | | |
| -2.27 | -2.11 | -0.6 | | |
| -2.41 | -4.14 | -2.55 | | |
| 1.98 | 1.35 | 0 | | |
| 1.81 | 0.74 | -0.48 | | |
| 1.67 | 1.09 | -0.01 | | |
| -1.04 | -2.39 | -3.75 | | |
| -1.31 | 2.26 | 1.23 | | |
| 2.38 | -0.15 | -1.5 | | |
| 2.23 | 0.68 | -0.58 | | |
| 2.16 | -0.95 | -2.16 | | |
| 1.93 | 3.48 | 2.43 | | |
| 1.89 | -0.74 | -1.76 | | |
| 2.8 | 1.67 | 0.32 | | |
| 2.53 | 0.48 | -0.72 | | |
| 3.21 | -0.56 | -1.91 | | |
| -1.62 | -0.94 | 0.08 | | |
| -1.89 | -1.7 | -0.44 | | |
| -2.15 | -1.52 | -0.08 | | |
| -2.79 | -5.84 | -4.02 | | |
| -3.41 | -5.17 | -3.06 | | |
| 2.77 | -6.45 | -7.8 | | |
| -1.87 | -4.25 | -3.23 | | |
| 2.08 | 0.67 | -0.68 | | |
| 1.65 | 0.18 | -0.83 | | |
| -3.46 | -1.18 | 0.31 | | |
| 3.3 | -0.8 | -2.15 | | |
| 2.92 | 2.52 | 1.35 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.7 | -3.57 | -2.43 | | |
| 3.14 | -0.63 | -1.98 | | |
| 2.64 | -1.28 | -2.37 | | |
| -1.63 | -2.13 | -1.12 | | |
| 1.77 | -5.73 | -7.08 | | |
| -3.16 | -4.95 | -3.82 | | |
| -3.54 | -5.19 | -3.89 | | |
| -1.01 | 5.2 | 3.85 | | |
| -1.07 | 3.46 | 2.2 | | |
| -1.17 | 0.43 | -0.71 | | |
| -1.28 | 1.05 | 0.05 | | |
| -7.67 | -3.5 | -1.92 | | |
| -8.07 | -3.3 | -1.65 | | |
| 4.95 | -2.38 | -3.73 | | |
| 4.13 | -2.63 | -3.72 | | |
| -1.08 | -1.49 | -0.43 | | |
| -1.09 | -0.79 | 0.29 | | |
| -1.13 | 2.8 | 3.93 | | |
| -1.23 | 2.05 | 3.3 | | |
| -1.23 | -1.24 | 0.01 | | |
| -1.25 | -2.78 | -1.51 | | |
| -2.33 | -4.18 | -2 | | |
| 1.65 | 1.75 | 0.4 | | |
| 1.39 | -0.77 | -1.88 | | |
| 1.31 | -0.46 | -1.48 | | |
| 2.66 | 1.81 | 0.46 | | |
| 2.08 | -0.69 | -1.69 | | |
| 1.93 | -4.54 | -5.89 | | |
| 1.51 | -4.32 | -5.32 | | |
| 1.51 | -2.41 | -3.41 | | |
| 2.23 | 6.55 | 5.2 | | |
| 2.02 | 1.12 | -0.08 | | |
| 2.01 | 3.54 | 2.35 | | |
| -2.63 | 0.26 | 1.47 | | |
| 1.39 | 1.06 | -0.28 | | |
| 1.25 | -0.61 | -1.8 | | |
| 1.17 | -0.7 | -1.79 | | |
| 1.14 | -1.1 | -2.17 | | |
| 1.13 | -2.29 | -3.34 | | |
| -3.7 | -2.54 | -1.52 | | |
| -3.76 | -0.86 | 0.18 | | |
| -3.79 | -1.74 | -0.68 | | |
| -3.82 | -1.78 | -0.72 | | |
| -4.02 | -2.16 | -1.03 | | |
| -4.17 | -2.41 | -1.21 | | |
| -5.01 | -1.22 | 0.24 | | |
| 4.59 | 0.94 | -0.4 | | |
| 4.36 | 0.06 | -1.21 | | |
| 4.34 | -0.03 | -1.29 | | |
| 4.17 | 0.13 | -1.08 | | |
| 4.11 | 1.89 | 0.7 | | |
| 3.97 | 1.57 | 0.43 | | |
| -1.17 | -2.98 | -1.89 | | |
| -1.22 | -2.5 | -1.36 | | |
| -1.27 | -2.92 | -1.72 | | |
| -1.36 | -0.32 | 0.98 | | |
| -1.41 | -2.81 | -1.47 | | |
| 1.61 | 1.57 | 0.23 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.4 | -0.96 | -2.11 | | |
| 1.4 | 2.16 | 1.02 | | |
| -3.56 | -0.81 | 0.36 | | |
| 1.36 | 0.54 | -0.81 | | |
| 1.25 | -5.68 | -6.91 | | |
| 1.11 | -2.51 | -3.57 | | |
| 1.64 | -0.06 | -1.4 | | |
| -3.76 | -2.32 | -1.04 | | |
| -3.94 | -1.56 | -0.2 | | |
| 5.49 | -0.88 | -2.23 | | |
| 1.06 | 0.1 | 1.13 | | |
| 1.05 | 0.84 | 1.87 | | |
| 1.05 | -3.63 | -2.59 | | |
| 1.04 | -0.36 | 0.69 | | |
| 1.04 | 2.77 | 3.82 | | |
| 1 | 0.11 | 1.21 | | |
| -1 | -1.61 | -0.5 | | |
| -1 | -1.69 | -0.58 | | |
| -1.02 | -3.57 | -2.43 | | |
| -1.03 | -0.41 | 0.75 | | |
| -1.04 | -1.7 | -0.54 | | |
| -1.08 | -0.62 | 0.6 | | |
| -1.09 | -3.26 | -2.02 | | |
| -1.1 | 1.22 | 2.46 | | |
| -1.1 | -3.94 | -2.69 | | |
| -1.16 | -3.26 | -1.94 | | |
| -1.22 | -3.12 | -1.72 | | |
| -1.23 | -0.33 | 1.08 | | |
| -1.27 | -3.77 | -2.31 | | |
| -1.38 | -0.75 | 0.83 | | |
| -1.43 | 0.96 | 2.58 | | |
| -1.44 | -0.61 | 1.03 | | |
| -1.47 | -1.35 | 0.31 | | |
| -1.52 | -3.8 | -2.08 | | |
| -1.76 | -0.43 | 1.5 | | |
| -2.18 | -3.27 | -1.03 | | |
| -2.26 | -2.29 | 0 | | |
| 2.32 | -3.01 | -4.35 | | |
| -2.22 | -5.79 | -4.77 | | |
| -2.32 | -4.59 | -3.51 | | |
| -2.6 | -5.52 | -4.27 | | |
| -3.91 | -5.2 | -3.36 | | |
| 1.94 | 1.01 | -0.34 | | |
| 1.82 | 0.02 | -1.23 | | |
| 1.54 | 3.2 | 2.2 | | |
| -2.82 | 0.14 | 1.24 | | |
| 1.22 | 1.91 | 0.56 | | |
| 1.07 | 0.56 | -0.59 | | |
| 1.02 | -0.28 | -1.36 | | |
| -1.04 | 1.33 | 0.34 | | |
| -4.61 | -1.15 | 0 | | |
| -6.15 | -2.58 | -1.02 | | |
| 3.47 | 1.8 | 0.46 | | |
| 2.94 | -3.73 | -4.84 | | |
| 2.78 | 0.1 | -0.92 | | |
| -1.58 | -4.03 | -2.91 | | |
| -1.65 | -2.92 | -1.75 | | |
| -2.7 | -3.66 | -1.78 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.05 | -3.62 | -1.56 | | |
| 2.58 | -0.37 | -1.72 | | |
| 2.12 | -1.81 | -2.88 | | |
| -3.58 | -4.28 | -2.41 | | |
| 2.3 | 2.93 | 1.59 | | |
| 1.91 | 0.42 | -0.65 | | |
| 1.85 | -0.96 | -1.99 | | |
| -2.24 | 1.58 | 2.59 | | |
| -3.23 | -1.52 | 0.03 | | |
| -4 | -0.75 | 1.11 | | |
| 1.77 | -2.08 | -3.43 | | |
| 1.6 | 1.45 | 0.25 | | |
| 1.45 | 3.5 | 2.45 | | |
| 1.45 | -0.86 | -1.92 | | |
| 1.4 | -0.76 | -1.77 | | |
| 1.83 | -0.5 | -1.84 | | |
| -2.9 | -2.6 | -1.53 | | |
| -3.5 | -4.37 | -3.03 | | |
| 1.56 | -1.35 | -2.69 | | |
| 1.46 | -3 | -4.24 | | |
| 1.38 | 1.03 | -0.13 | | |
| 1.3 | -2.1 | -3.17 | | |
| 1.28 | -3.04 | -4.09 | | |
| 2.18 | 1.72 | 0.38 | | |
| 1.97 | 0.17 | -1.02 | | |
| 1.95 | -0.21 | -1.39 | | |
| -2.64 | 0.61 | 1.8 | | |
| 4.75 | -2.08 | -3.42 | | |
| 4.59 | -0.32 | -1.61 | | |
| 4.34 | 0.08 | -1.13 | | |
| 4.27 | 0.06 | -1.12 | | |
| 4.06 | -0.33 | -1.44 | | |
| -1.2 | -1.65 | -0.49 | | |
| -1.35 | -4.05 | -2.71 | | |
| -1.39 | -4.49 | -3.11 | | |
| -1.98 | -5.86 | -3.97 | | |
| -2.03 | -6.5 | -4.57 | | |
| -2.63 | -3.14 | -0.83 | | |
| -5.74 | -5.18 | -1.75 | | |
| 2.27 | 0.39 | -0.95 | | |
| 2.01 | 2.09 | 0.93 | | |
| 1.99 | 1.15 | 0 | | |
| 1.87 | 1.93 | 0.88 | | |
| 1.86 | 0.72 | -0.33 | | |
| 2.27 | 0.1 | -1.24 | | |
| 2.25 | 1.43 | 0.1 | | |
| 3.49 | -2.38 | -3.72 | | |
| -1.46 | -3.05 | -2.04 | | |
| -1.49 | -0.38 | 0.66 | | |
| -1.51 | -4.97 | -3.91 | | |
| 1.55 | -1.22 | -2.56 | | |
| 1.35 | -1.81 | -2.95 | | |
| 1.28 | 1.06 | -0.01 | | |
| -3.62 | -2.77 | -1.63 | | |
| -3.87 | -3.4 | -2.15 | | |
| -3.87 | -2.92 | -1.68 | | |
| 3.03 | -2.76 | -4.1 | | |
| -1.89 | -4.26 | -3.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.07 | -4.53 | -3.22 | | |
| 2.42 | 5.29 | 3.95 | | |
| -2.25 | -2.91 | -1.8 | | |
| 4.89 | -2.13 | -3.47 | | |
| -1.06 | 4.18 | 5.21 | | |
| -1.44 | -5.07 | -3.6 | | |
| -1.51 | -5.46 | -3.92 | | |
| -1.72 | -1.8 | -0.07 | | |
| 1.99 | -0.83 | -2.16 | | |
| 1.71 | 1.81 | 0.7 | | |
| 1.62 | 1.23 | 0.19 | | |
| 1.61 | 3.62 | 2.6 | | |
| 2.28 | -0.66 | -2 | | |
| 1.8 | 0.78 | -0.22 | | |
| -3.28 | -2.16 | -0.59 | | |
| 1.82 | -0.95 | -2.29 | | |
| -2.84 | -2.55 | -1.51 | | |
| -3.24 | -1.2 | 0.03 | | |
| 3.3 | 0.64 | -0.69 | | |
| 3.11 | -0.71 | -1.96 | | |
| 2.97 | -1.32 | -2.5 | | |
| 2.54 | 2.83 | 1.49 | | |
| 2.13 | 3.25 | 2.17 | | |
| -2.24 | -0.66 | 0.52 | | |
| 3.28 | -0.18 | -1.52 | | |
| 2.82 | -1.23 | -2.35 | | |
| 2.76 | 2.16 | 1.08 | | |
| -1.53 | -2.53 | -1.53 | | |
| -1.79 | -2.41 | -1.19 | | |
| 2.85 | 0.13 | -1.2 | | |
| 2.3 | 2.36 | 1.34 | | |
| 2.26 | -0.21 | -1.21 | | |
| -2.04 | -1.16 | 0.04 | | |
| 2.81 | 1.76 | 0.43 | | |
| -1.9 | -3 | -1.92 | | |
| 1.93 | -0.3 | -1.63 | | |
| -2.67 | -1.82 | -0.79 | | |
| 1.5 | -1.95 | -3.29 | | |
| 1.25 | -0.09 | -1.15 | | |
| 1.19 | 1.09 | 0.1 | | |
| 1.19 | 1.1 | 0.1 | | |
| 1.22 | 3.69 | 2.36 | | |
| 1.2 | 6.15 | 4.84 | | |
| 1.19 | -2.03 | -3.33 | | |
| 1.1 | 2.07 | 0.89 | | |
| 1.01 | 3.19 | 2.13 | | |
| 7.13 | 0.96 | -0.37 | | |
| 1.39 | -1.57 | -0.54 | | |
| 1.35 | 1.06 | 2.12 | | |
| 1.2 | -0.49 | 0.75 | | |
| 1.11 | 2.86 | 4.2 | | |
| -1.2 | 0.03 | 1.78 | | |
| -1.21 | 1.25 | 3.03 | | |
| -1.29 | -1.52 | 0.35 | | |
| 2.81 | -3.88 | -5.21 | | |
| 2.56 | -5.4 | -6.6 | | |
| -1.82 | -4.29 | -3.27 | | |
| -2.14 | -7.7 | -6.44 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.72 | -4.28 | -5.61 | | |
| -1.96 | -4.74 | -3.66 | | |
| 1.35 | -2.77 | -4.11 | | |
| 1.09 | -4.59 | -5.62 | | |
| -6.59 | -5.53 | -3.71 | | |
| 2.8 | 2.1 | 0.77 | | |
| 2.63 | 4.12 | 2.88 | | |
| -1.83 | 3.8 | 4.82 | | |
| 3.32 | -1.8 | -3.13 | | |
| 2.99 | -4.39 | -5.57 | | |
| 4.77 | -0.9 | -2.23 | | |
| 4.69 | 0.71 | -0.6 | | |
| 3.96 | 0.48 | -0.58 | | |
| 3.81 | 1.52 | 0.51 | | |
| -1.05 | -1.13 | -0.13 | | |
| -1.05 | 2.84 | 3.84 | | |
| -1.19 | -0.62 | 0.55 | | |
| -1.25 | -1.12 | 0.13 | | |
| -1.42 | -2.68 | -1.25 | | |
| -1.45 | -2.08 | -0.62 | | |
| -1.46 | -0.5 | 0.96 | | |
| 1.85 | -1.17 | -2.49 | | |
| 1.76 | -1.86 | -3.12 | | |
| -2.81 | -0.75 | 0.3 | | |
| -5.45 | -3.95 | -1.94 | | |
| 1.91 | -3.69 | -5.02 | | |
| -2.84 | -2.58 | -1.47 | | |
| -3.53 | -5.3 | -3.87 | | |
| -4.98 | -5.7 | -3.78 | | |
| -7.17 | -3.93 | -1.48 | | |
| 2.42 | -1.31 | -2.64 | | |
| -3.41 | -2.43 | -0.71 | | |
| 1.43 | -0.32 | -1.64 | | |
| 1.25 | 2 | 0.87 | | |
| 5.58 | 0.7 | -0.63 | | |
| 1.09 | -1.1 | -0.08 | | |
| 1.05 | -0.84 | 0.24 | | |
| 1.03 | 1.59 | 2.69 | | |
| -1.31 | -1.11 | 0.43 | | |
| -1.44 | -1.37 | 0.3 | | |
| 1.56 | -3.37 | -4.7 | | |
| -3.56 | -2.47 | -1.32 | | |
| -4.05 | -1.88 | -0.54 | | |
| 2.2 | -1.01 | -2.34 | | |
| 1.81 | -2.2 | -3.25 | | |
| -2.75 | -1.92 | -0.66 | | |
| 5.05 | 0.59 | -0.74 | | |
| -1 | -3.2 | -2.19 | | |
| -1.07 | -3.1 | -2 | | |
| -2.12 | -5.54 | -3.45 | | |
| 2.49 | 0.87 | -0.45 | | |
| 2.42 | 0.29 | -1 | | |
| 1.99 | -0.58 | -1.58 | | |
| -2.1 | -2.18 | -1.13 | | |
| -2.23 | -0.19 | 0.95 | | |
| -2.34 | -0.39 | 0.83 | | |
| -2.41 | -3.4 | -2.14 | | |
| -2.5 | -1.58 | -0.27 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.53 | -2.59 | -1.26 | | |
| 1.74 | 2.19 | 0.86 | | |
| 1.43 | 2.26 | 1.21 | | |
| 1.4 | -5.29 | -6.31 | | |
| 5.47 | 0.27 | -1.06 | | |
| 1.03 | -0.35 | 0.73 | | |
| -1.04 | -2.89 | -1.72 | | |
| -1.13 | -0.84 | 0.46 | | |
| -2.11 | -0.12 | 2.09 | | |
| 1.87 | 5.34 | 4.01 | | |
| 1.55 | 1.97 | 0.91 | | |
| -3.9 | -1.2 | 0.34 | | |
| 1.38 | -0.51 | -1.84 | | |
| 1.15 | -2.34 | -3.41 | | |
| -3.74 | -2.43 | -1.39 | | |
| -6 | -6.03 | -4.31 | | |
| 2.11 | -2.33 | -3.66 | | |
| 1.84 | 0.94 | -0.19 | | |
| -2.47 | -2.91 | -1.86 | | |
| -2.48 | -3.21 | -2.15 | | |
| -2.63 | -2.52 | -1.38 | | |
| 2.37 | -2.16 | -3.49 | | |
| -2.3 | -2.97 | -1.85 | | |
| 1.77 | 0.36 | -0.97 | | |
| -2.87 | -3.31 | -2.3 | | |
| -2.91 | -2.88 | -1.84 | | |
| 7.8 | 1.15 | -0.17 | | |
| 7.27 | 0.89 | -0.34 | | |
| 6.58 | -1.04 | -2.13 | | |
| 1.45 | -0.84 | 0.26 | | |
| 1.39 | 4.45 | 5.61 | | |
| 1.34 | -2.14 | -0.93 | | |
| 1.26 | -2.43 | -1.13 | | |
| 1.24 | -2.36 | -1.03 | | |
| 1.16 | -0.17 | 1.26 | | |
| 1.11 | -0.83 | 0.65 | | |
| -1.02 | 1.66 | 3.32 | | |
| -1.18 | -1.8 | 0.07 | | |
| -1.26 | -1.45 | 0.53 | | |
| -2.74 | -1.63 | 1.46 | | |
| 1.05 | 0.34 | -0.99 | | |
| -1.02 | -5.09 | -6.31 | | |
| -4.96 | -3.43 | -2.38 | | |
| 1.7 | -0.62 | -1.95 | | |
| 1.63 | 2.64 | 1.36 | | |
| 1.52 | 0.27 | -0.9 | | |
| 1.48 | -0.25 | -1.39 | | |
| 1.44 | 0.19 | -0.91 | | |
| 1.6 | -1.04 | -2.36 | | |
| 1.39 | -0.55 | -1.67 | | |
| 1.3 | 0.84 | -0.2 | | |
| 1.94 | -0.01 | -1.33 | | |
| 1.7 | 1.55 | 0.41 | | |
| -3.27 | -4.02 | -2.68 | | |
| -3.9 | -4.82 | -3.23 | | |
| 1.97 | 2.4 | 1.07 | | |
| 1.91 | 3.77 | 2.48 | | |
| 1.89 | -1.84 | -3.1 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.89 | 0.61 | -0.67 | | |
| 1.58 | 3.86 | 2.84 | | |
| -2.68 | -1.01 | 0.06 | | |
| -4.09 | -2.83 | -1.16 | | |
| -34.6 | -4.17 | 0.59 | | |
| 2.69 | -1.94 | -3.27 | | |
| -1.88 | -2.39 | -1.37 | | |
| 1.38 | 2.24 | 0.93 | | |
| 1.29 | -0.71 | -1.93 | | |
| 1.16 | -0.93 | -2.01 | | |
| 1.12 | -1.87 | -2.9 | | |
| -4.76 | -1.69 | -0.29 | | |
| 2.12 | -3.6 | -4.92 | | |
| -3.49 | -4.36 | -2.79 | | |
| 2.13 | -3.83 | -5.15 | | |
| 1.94 | -3.75 | -4.94 | | |
| 1.9 | -2.96 | -4.11 | | |
| 1.56 | 1.69 | 0.37 | | |
| 1.31 | 3.44 | 2.38 | | |
| -3.21 | -1 | 0 | | |
| 1.42 | 2.77 | 1.45 | | |
| 1.31 | -1.34 | -2.53 | | |
| 1.28 | 7.17 | 6 | | |
| 1.15 | -3.02 | -4.04 | | |
| 1.14 | 2.31 | 1.31 | | |
| -3.71 | -3.32 | -2.24 | | |
| -3.85 | -1.9 | -0.77 | | |
| -4.03 | -2.57 | -1.37 | | |
| -4.32 | -1.73 | -0.44 | | |
| -4.65 | -2.47 | -1.07 | | |
| -6.72 | -2.47 | -0.53 | | |
| -9.94 | -1.91 | 0.59 | | |
| -10.52 | -2.22 | 0.36 | | |
| 15.14 | -1.65 | -2.97 | | |
| 13.48 | 0.17 | -0.98 | | |
| 2.95 | 0.67 | 1.71 | | |
| 2.62 | -4.42 | -3.21 | | |
| 2.5 | 0.85 | 2.12 | | |
| 2.24 | -3.6 | -2.17 | | |
| 2.23 | -1.38 | 0.07 | | |
| 2.08 | -3.19 | -1.65 | | |
| 1.99 | -1.81 | -0.2 | | |
| 1.89 | -4.5 | -2.82 | | |
| 1.78 | -1.11 | 0.65 | | |
| 1.36 | -0.9 | 1.26 | | |
| 1.07 | -2.28 | 0.22 | | |
| 1.06 | 1.08 | 3.59 | | |
| -1.08 | -1.41 | 1.31 | | |
| -1.42 | -4.73 | -1.62 | | |
| -1.42 | -1.62 | 1.49 | | |
| 2.46 | -3.39 | -4.72 | | |
| 2 | 2.13 | 1.1 | | |
| -3.02 | -2.59 | -1.01 | | |
| 1.8 | -1.19 | -2.51 | | |
| 1.56 | 2.22 | 1.11 | | |
| 1.45 | -2.5 | -3.51 | | |
| -3.1 | -3.62 | -2.46 | | |
| 2.49 | 1.52 | 0.2 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.07 | -0.73 | 0.31 | | |
| -2.4 | -2.94 | -1.68 | | |
| 6.73 | -3.19 | -4.5 | | |
| 5.82 | -1.07 | -2.18 | | |
| 1.21 | 2.15 | 3.31 | | |
| 1.07 | 1.68 | 3.01 | | |
| 1.06 | -5.76 | -4.42 | | |
| -1 | -5.81 | -4.37 | | |
| -1.02 | -2.49 | -1.03 | | |
| -1.18 | -6.79 | -5.12 | | |
| -1.64 | 3.43 | 5.58 | | |
| 2.87 | -1.6 | -2.92 | | |
| 2.49 | -0.21 | -1.32 | | |
| -1.75 | -1.84 | -0.84 | | |
| 1.8 | -1.56 | -2.87 | | |
| -3.31 | -4.64 | -3.37 | | |
| 1.8 | 2.94 | 1.62 | | |
| 1.68 | 0.57 | -0.65 | | |
| -3.04 | -0.36 | 0.78 | | |
| 2.12 | -1.98 | -3.3 | | |
| 1.81 | -1.53 | -2.62 | | |
| 1.44 | -1.64 | -2.96 | | |
| 1.17 | 3.62 | 2.6 | | |
| 1.16 | -1.32 | -2.33 | | |
| -3.82 | -3.46 | -2.31 | | |
| 15.75 | 0.41 | -0.91 | | |
| 15.35 | -1.37 | -2.65 | | |
| 12.72 | -2.33 | -3.33 | | |
| 2.58 | -5.46 | -4.16 | | |
| 2.37 | -4.06 | -2.64 | | |
| 2.22 | -1.19 | 0.32 | | |
| 1.77 | -0.74 | 1.1 | | |
| 1.74 | -5.21 | -3.35 | | |
| 1.67 | -0.84 | 1.08 | | |
| 1.43 | -1.53 | 0.62 | | |
| 1.41 | -0.09 | 2.08 | | |
| 1.09 | -6.37 | -3.82 | | |
| -1.12 | -2.36 | 0.46 | | |
| -1.34 | -6.15 | -3.06 | | |
| -1.39 | -5.51 | -2.37 | | |
| -1.91 | -4.26 | -0.67 | | |
| -2.62 | -7.09 | -3.03 | | |
| 3.46 | 0.22 | -1.1 | | |
| -1.46 | -0.1 | 0.91 | | |
| -1.67 | -0.47 | 0.74 | | |
| -2.11 | -2.77 | -1.22 | | |
| 2.33 | 6.15 | 4.83 | | |
| 2.24 | 6.06 | 4.8 | | |
| -3.51 | -1.9 | -0.18 | | |
| 4.22 | -1.43 | -2.74 | | |
| 3.8 | 0.84 | -0.33 | | |
| 12.78 | -1.79 | -3.1 | | |
| 1.56 | -4.37 | -2.64 | | |
| 1.43 | 2.12 | 3.97 | | |
| -1.8 | -6.21 | -3 | | |
| 1.94 | 1.47 | 0.16 | | |
| 1.6 | -0.51 | -1.55 | | |
| -2.92 | -2.09 | -0.91 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.42 | -2.6 | -3.92 | | |
| -4.09 | -3.63 | -1.64 | | |
| 2.7 | -0.4 | -1.71 | | |
| -1.97 | -3.93 | -2.83 | | |
| -2.09 | -2.99 | -1.81 | | |
| -2.26 | -2.79 | -1.49 | | |
| -2.55 | -4.32 | -2.85 | | |
| -2.75 | -2.81 | -1.24 | | |
| 3.07 | -2.85 | -4.16 | | |
| 2.81 | -3.75 | -4.94 | | |
| -1.89 | -5.08 | -3.86 | | |
| 6.24 | -2.86 | -4.18 | | |
| 1.24 | -4.36 | -3.34 | | |
| 1.2 | -4.53 | -3.47 | | |
| 1.11 | 1.2 | 2.38 | | |
| 1.09 | -5.23 | -4.03 | | |
| 1.07 | -5.25 | -4.02 | | |
| 1.05 | -3.52 | -2.26 | | |
| 2.93 | 2.49 | 1.17 | | |
| 2.61 | 1.3 | 0.14 | | |
| -1.72 | -0.49 | 0.52 | | |
| 1.29 | 1.43 | 0.11 | | |
| -4.32 | 0.37 | 1.53 | | |
| 4.77 | -1.7 | -3.01 | | |
| 4.29 | -1.31 | -2.47 | | |
| 4.28 | 0.02 | -1.13 | | |
| -1.09 | -3.67 | -2.6 | | |
| -1.13 | 1.5 | 2.62 | | |
| -1.18 | -1.78 | -0.6 | | |
| -1.24 | 3.49 | 4.75 | | |
| -1.35 | -2.2 | -0.82 | | |
| 2.23 | -2.41 | -3.72 | | |
| 2.07 | -0.72 | -1.92 | | |
| 1.82 | 0.04 | -0.98 | | |
| -2.23 | 1.35 | 2.35 | | |
| -2.56 | -0.63 | 0.57 | | |
| 1.64 | -3.24 | -4.56 | | |
| 1.59 | -3.2 | -4.47 | | |
| 1.41 | -2.78 | -3.87 | | |
| 1.38 | 3.94 | 2.88 | | |
| 1.37 | -2.56 | -3.61 | | |
| 1.34 | -1.14 | -2.15 | | |
| -3.11 | -3.97 | -2.94 | | |
| 1.29 | 2.18 | 0.87 | | |
| 1.23 | 0.79 | -0.46 | | |
| 1.19 | -3.07 | -4.26 | | |
| 1.72 | 1.34 | 0.02 | | |
| 1.58 | 1.64 | 0.45 | | |
| 1.52 | 0.67 | -0.47 | | |
| 1.41 | 2.45 | 1.43 | | |
| 1.9 | 1.69 | 0.38 | | |
| -2.65 | -1.08 | -0.06 | | |
| 1.69 | 0.67 | -0.65 | | |
| 1.39 | 0.14 | -0.89 | | |
| 3.68 | 1.01 | -0.3 | | |
| -1.38 | -2.01 | -0.98 | | |
| -1.41 | 0.28 | 1.34 | | |
| 1.99 | -1.92 | -3.23 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.69 | -0.23 | -1.31 | | |
| 1.65 | 0 | -1.04 | | |
| 1.61 | -3.28 | -4.29 | | |
| 1.62 | -1.52 | -2.53 | | |
| -2.79 | -1.58 | -0.41 | | |
| -3.04 | -0.82 | 0.47 | | |
| -3.22 | -3.49 | -2.12 | | |
| 6.16 | -1.01 | -2.32 | | |
| 1.23 | -1.13 | -0.11 | | |
| 1.23 | -0.25 | 0.77 | | |
| 1.2 | 0.58 | 1.63 | | |
| 1.1 | -2.94 | -1.76 | | |
| 1.03 | 1.11 | 2.38 | | |
| -1.05 | -1.03 | 0.36 | | |
| -1.07 | 4.35 | 5.77 | | |
| -1.08 | -4.6 | -3.18 | | |
| -1.12 | -3.83 | -2.35 | | |
| -1.18 | 0.64 | 2.18 | | |
| -1.18 | -0.92 | 0.64 | | |
| -1.27 | 0.4 | 2.06 | | |
| -1.28 | 0.88 | 2.55 | | |
| -1.33 | 1.46 | 3.19 | | |
| -1.47 | 1.19 | 3.05 | | |
| -1.65 | -0.37 | 1.67 | | |
| 1.5 | 1.04 | -0.27 | | |
| -3.62 | -2.46 | -1.32 | | |
| -6.35 | -3.75 | -1.81 | | |
| 3.78 | -3.92 | -5.23 | | |
| -1.41 | 0.21 | 1.3 | | |
| 2.97 | -2.15 | -3.46 | | |
| -1.81 | -4.51 | -3.39 | | |
| -1.89 | -2.97 | -1.8 | | |
| -1.88 | -3.47 | -2.29 | | |
| 2.01 | 0.86 | -0.46 | | |
| 1.94 | -1.09 | -2.35 | | |
| -2.55 | 0.05 | 1.1 | | |
| -2.73 | -1.74 | -0.6 | | |
| -4.15 | -1.36 | 0.39 | | |
| 2.43 | -0.62 | -1.94 | | |
| -2.75 | 3.3 | 4.73 | | |
| 1.85 | -1.91 | -3.22 | | |
| 1.52 | -1.97 | -3 | | |
| -2.78 | -6.36 | -5.31 | | |
| -2.96 | -3.83 | -2.69 | | |
| 1.39 | -4.49 | -5.8 | | |
| 1.25 | 0.11 | -1.04 | | |
| 1.25 | -2.25 | -3.4 | | |
| 1.14 | -2.61 | -3.63 | | |
| 1.13 | -3.54 | -4.54 | | |
| 1.16 | -0.98 | -2.29 | | |
| 1.06 | -1.06 | -2.23 | | |
| 1.05 | -0.75 | -1.91 | | |
| 1.04 | 3.71 | 2.57 | | |
| 1.02 | 0.73 | -0.39 | | |
| 1.01 | -0.49 | -1.59 | | |
| -1 | -0.04 | -1.13 | | |
| -1 | -1.97 | -3.05 | | |
| -1.02 | 0.24 | -0.83 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.02 | 2.88 | 1.83 | | |
| 1.49 | 0.47 | -0.83 | | |
| 1.38 | 0.02 | -1.18 | | |
| 1.34 | 0.89 | -0.25 | | |
| 1.62 | 0.82 | -0.48 | | |
| 1.37 | -1.42 | -2.49 | | |
| 1.84 | -4.21 | -5.51 | | |
| 1.73 | -0.52 | -1.74 | | |
| 1.59 | -4.65 | -5.75 | | |
| 1.53 | -4.22 | -5.26 | | |
| -2.74 | -3.32 | -2.3 | | |
| 1.31 | 0.87 | -0.43 | | |
| 1.21 | -3.86 | -5.04 | | |
| 1.16 | 0.9 | -0.22 | | |
| 1.15 | 1.94 | 0.82 | | |
| 5.92 | 0.48 | -0.82 | | |
| 5.15 | 2.05 | 0.94 | | |
| 5.11 | 0.84 | -0.25 | | |
| 4.97 | 0.22 | -0.83 | | |
| 1.17 | -1.55 | -0.52 | | |
| 1.16 | -1.49 | -0.45 | | |
| 1.1 | 0.01 | 1.14 | | |
| 1.01 | -0.24 | 1.01 | | |
| -1 | -0.44 | 0.83 | | |
| -1.09 | -2.44 | -1.05 | | |
| -1.11 | 1.41 | 2.83 | | |
| -1.12 | -2.05 | -0.62 | | |
| -1.13 | -0.85 | 0.59 | | |
| -1.13 | -1.74 | -0.3 | | |
| -1.17 | 0.44 | 1.93 | | |
| -1.19 | 3.01 | 4.52 | | |
| -1.52 | -1.13 | 0.74 | | |
| -2.12 | -0.97 | 1.37 | | |
| 2.97 | -1.61 | -2.92 | | |
| 2.56 | -3.17 | -4.27 | | |
| -1.68 | -4.11 | -3.09 | | |
| -2.28 | -4.28 | -2.83 | | |
| -2.82 | -4.9 | -3.14 | | |
| 1.47 | -4.43 | -5.74 | | |
| 1.41 | -5.79 | -7.04 | | |
| 1.33 | 0.01 | -1.16 | | |
| 1.28 | -2.8 | -3.9 | | |
| -3.44 | -5.6 | -4.57 | | |
| -3.48 | -4.72 | -3.67 | | |
| -3.64 | -6.54 | -5.43 | | |
| -3.71 | -2 | -0.86 | | |
| 1.68 | -4.83 | -6.13 | | |
| 1.39 | 1.13 | 0.1 | | |
| 1.34 | 0.17 | -1.13 | | |
| -4.07 | -2.76 | -1.61 | | |
| -4.66 | -1.26 | 0.08 | | |
| 1.24 | 3.27 | 1.97 | | |
| -5.96 | -0.82 | 0.76 | | |
| 1.46 | -1.89 | -3.19 | | |
| 1.26 | -0.39 | -1.48 | | |
| 2.17 | -3.92 | -5.22 | | |
| 2.15 | -3.18 | -4.47 | | |
| 1.97 | -1.06 | -2.23 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.8 | -0.22 | -1.53 | | |
| 1.56 | -2.53 | -3.63 | | |
| 1.49 | 0.16 | -0.87 | | |
| -3.35 | -0.4 | 0.89 | | |
| -3.91 | -2.37 | -0.86 | | |
| -4.7 | -2.55 | -0.78 | | |
| 1.41 | -4.62 | -5.92 | | |
| 1.35 | -6.04 | -7.28 | | |
| 1.31 | -2.35 | -3.54 | | |
| -3.81 | -3.13 | -2 | | |
| 2.88 | -2.56 | -3.86 | | |
| 2.78 | -3.11 | -4.36 | | |
| 2.73 | -2.92 | -4.15 | | |
| 2.16 | 2.42 | 1.12 | | |
| 2.11 | 2.72 | 1.45 | | |
| 2.07 | -0.32 | -1.56 | | |
| 1.89 | -0.96 | -2.07 | | |
| 1.78 | -0.18 | -1.21 | | |
| -2.29 | -1.27 | -0.27 | | |
| -2.39 | -1.11 | -0.05 | | |
| -2.76 | -2.83 | -1.56 | | |
| -3.36 | -2.13 | -0.58 | | |
| 1.71 | -1.94 | -3.24 | | |
| 1.64 | -1.68 | -2.92 | | |
| 1.56 | -0.28 | -1.45 | | |
| 1.41 | -2.63 | -3.66 | | |
| 2.16 | 2.42 | 1.12 | | |
| 2.11 | 2.72 | 1.45 | | |
| 2.07 | -0.32 | -1.56 | | |
| 1.89 | -0.96 | -2.07 | | |
| 1.78 | -0.18 | -1.21 | | |
| -2.29 | -1.27 | -0.27 | | |
| -2.39 | -1.11 | -0.05 | | |
| -2.76 | -2.83 | -1.56 | | |
| -3.36 | -2.13 | -0.58 | | |
| 1.72 | 0.56 | -0.74 | | |
| 1.69 | -2.17 | -3.46 | | |
| 1.57 | 1.12 | -0.05 | | |
| 1.8 | -2.68 | -3.98 | | |
| 1.7 | -2.58 | -3.79 | | |
| -2.93 | -3.72 | -2.62 | | |
| 2.03 | -1.07 | -2.37 | | |
| 1.83 | 2.07 | 0.92 | | |
| 2.29 | -2.24 | -3.54 | | |
| 2.15 | -0.52 | -1.73 | | |
| -4.72 | -3.68 | -1.54 | | |
| 1.27 | -2.69 | -3.99 | | |
| 1.25 | -2.7 | -3.98 | | |
| 1.2 | 0.73 | -0.5 | | |
| 1.09 | -1.2 | -2.28 | | |
| 6.72 | -1.38 | -2.68 | | |
| 1.16 | -0.58 | 0.65 | | |
| 1.1 | 3.45 | 4.77 | | |
| -1.04 | -1.58 | -0.07 | | |
| -1.21 | -1.32 | 0.41 | | |
| 1.83 | 3.08 | 1.78 | | |
| 1.69 | 0.73 | -0.46 | | |
| -3.08 | -1.28 | -0.09 | | |

| | | | | |
|--------|-------|-------|--|--|
| -3.18 | -1 | 0.24 | | |
| -3.69 | -3.48 | -2.02 | | |
| 2.7 | -2.61 | -3.91 | | |
| -1.84 | -3.78 | -2.77 | | |
| 1.69 | 4.25 | 2.94 | | |
| 1.48 | -1.03 | -2.13 | | |
| 1.41 | 1.23 | 0.2 | | |
| 3.88 | 0.1 | -1.2 | | |
| -1.77 | 1.1 | 2.58 | | |
| 2.54 | -0.63 | -1.92 | | |
| -2.92 | -1.06 | 0.54 | | |
| 1.31 | 1.26 | -0.03 | | |
| 1.06 | 3.08 | 2.08 | | |
| 1.9 | -2.95 | -4.24 | | |
| 1.73 | 5.54 | 4.38 | | |
| 1.62 | 0.74 | -0.33 | | |
| 1.08 | 1.32 | 0.03 | | |
| 1.03 | -3.4 | -4.63 | | |
| 1 | -3.33 | -4.51 | | |
| -1.09 | -4.04 | -5.09 | | |
| -4.81 | -0.84 | 0.24 | | |
| 1.06 | -5.26 | -6.55 | | |
| 1.01 | -3.73 | -4.94 | | |
| -1.12 | -4.27 | -5.31 | | |
| -5.46 | -3.23 | -1.99 | | |
| -11.77 | -4.47 | -2.11 | | |
| -16.93 | -5.25 | -2.37 | | |
| 2.07 | -0.23 | -1.53 | | |
| -3.24 | 0.01 | 1.47 | | |
| -4.84 | -0.2 | 1.83 | | |
| 1.62 | -2.13 | -3.42 | | |
| 1.45 | -4.15 | -5.29 | | |
| 1.35 | -0.39 | -1.42 | | |
| 1.62 | 2.39 | 1.09 | | |
| 1.51 | -0.21 | -1.4 | | |
| 1.36 | 1.36 | 0.32 | | |
| 1.36 | 2.45 | 1.42 | | |
| -3.07 | -1.03 | -0.01 | | |
| -3.46 | -0.04 | 1.15 | | |
| -6.4 | -0.49 | 1.59 | | |
| 2.01 | -2.91 | -4.2 | | |
| 1.97 | -4.55 | -5.82 | | |
| 1.94 | 0.53 | -0.71 | | |
| 2.46 | 1.59 | 0.29 | | |
| -2.13 | -3 | -1.9 | | |
| -2.24 | -1.19 | -0.02 | | |
| -2.77 | -3.03 | -1.56 | | |
| 1.63 | 6.89 | 5.6 | | |
| 1.59 | 0.21 | -1.05 | | |
| 1.46 | 2.43 | 1.29 | | |
| -5.65 | -0.33 | 1.59 | | |
| 2.32 | -2.9 | -4.19 | | |
| -2.43 | -1.66 | -0.45 | | |
| 1.92 | -0.2 | -1.49 | | |
| -2.6 | 1.13 | 2.16 | | |
| -3.9 | -1.25 | 0.37 | | |
| 4.47 | 0.7 | -0.59 | | |
| -1.11 | -1.81 | -0.78 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.12 | 0.18 | 1.22 | | |
| -1.2 | -0.06 | 1.07 | | |
| -1.36 | 1.48 | 2.8 | | |
| -1.52 | 0.28 | 1.75 | | |
| 8.63 | 0.05 | -1.24 | | |
| 1.68 | 1.9 | 2.96 | | |
| 1.01 | 0.4 | 2.21 | | |
| 1.4 | 2 | 0.71 | | |
| 1.35 | 0.39 | -0.85 | | |
| -3.73 | -0.11 | 0.98 | | |
| -4.12 | -3.3 | -2.06 | | |
| -5.91 | -2.09 | -0.34 | | |
| -7.44 | -2.63 | -0.55 | | |
| -12.27 | -3.63 | -0.82 | | |
| 2.34 | 3.92 | 2.63 | | |
| 2.27 | 2.08 | 0.83 | | |
| 2.14 | 0.09 | -1.07 | | |
| 1.65 | -3.12 | -4.41 | | |
| -3.81 | -2.97 | -1.61 | | |
| 2.29 | -2.57 | -3.86 | | |
| 2.29 | -1.06 | -2.36 | | |
| 1.93 | -0.19 | -1.24 | | |
| 2.29 | -2.57 | -3.86 | | |
| 2.29 | -1.06 | -2.36 | | |
| 1.93 | -0.19 | -1.24 | | |
| 1.11 | 2.18 | 0.89 | | |
| 1.01 | 3.24 | 2.09 | | |
| 1.01 | -1.49 | -2.65 | | |
| -1.02 | 4.13 | 3.02 | | |
| -1.05 | 1.04 | -0.03 | | |
| 1.58 | -2.26 | -3.55 | | |
| 1.45 | -2.87 | -4.03 | | |
| 1.72 | 0.26 | -1.03 | | |
| 1.5 | 5.42 | 4.33 | | |
| 1.44 | -0.23 | -1.27 | | |
| -2.97 | -1.58 | -0.52 | | |
| -3.01 | -2.58 | -1.5 | | |
| -3.14 | -2.07 | -0.93 | | |
| 1.75 | -1.62 | -2.91 | | |
| 1.74 | 0.87 | -0.41 | | |
| 1.82 | -0.74 | -2.03 | | |
| 1.56 | -0.63 | -1.7 | | |
| -3.17 | -2.62 | -1.38 | | |
| 2.02 | -0.56 | -1.85 | | |
| -3.47 | -4.98 | -3.46 | | |
| 1.85 | 0.57 | -0.71 | | |
| 1.54 | 0.54 | -0.49 | | |
| -3.2 | -3.16 | -1.89 | | |
| -3.19 | -3.36 | -2.09 | | |
| -6.08 | -1.9 | 0.3 | | |
| 2.38 | -2.14 | -3.43 | | |
| 2.2 | 1.97 | 0.8 | | |
| -2.2 | -1.48 | -0.38 | | |
| -2.67 | -1.98 | -0.6 | | |
| 13.16 | 0.58 | -0.71 | | |
| 11.95 | 0.02 | -1.12 | | |
| 2.29 | -0.13 | 1.11 | | |
| 1.95 | -1.08 | 0.39 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.93 | -4.39 | -2.9 | | |
| 1.62 | -2.62 | -0.89 | | |
| 1.17 | -2.03 | 0.17 | | |
| 1.16 | -2.93 | -0.71 | | |
| -1.01 | -6.64 | -4.2 | | |
| 1.6 | -0.56 | -1.85 | | |
| -3.08 | -2.3 | -1.28 | | |
| -3.94 | -1.16 | 0.21 | | |
| -4.04 | -0.85 | 0.55 | | |
| -6.47 | -4.38 | -2.29 | | |
| -10.31 | -4.09 | -1.33 | | |
| 1.72 | 2.78 | 1.49 | | |
| 1.49 | 2.77 | 1.7 | | |
| -3.93 | -2.72 | -1.25 | | |
| 1.31 | 1.62 | 0.33 | | |
| -3.81 | -1.61 | -0.58 | | |
| -3.99 | -1.68 | -0.59 | | |
| 9.68 | -0.74 | -2.02 | | |
| 1.8 | -1.94 | -0.8 | | |
| 1.77 | -0.33 | 0.84 | | |
| 1.67 | -0.15 | 1.1 | | |
| 1.42 | 1.55 | 0.26 | | |
| 1.26 | -3.26 | -4.38 | | |
| 1.24 | 3.74 | 2.66 | | |
| 1.16 | -1.33 | -2.33 | | |
| -5.11 | -4.39 | -2.82 | | |
| 1.1 | 2.2 | 0.91 | | |
| -6.39 | 1.28 | 2.8 | | |
| -9.98 | 1.3 | 3.47 | | |
| -12.82 | 0.89 | 3.42 | | |
| -21.24 | 0.11 | 3.37 | | |
| 1.67 | 2.93 | 1.64 | | |
| -4.69 | -4.28 | -2.59 | | |
| 1.06 | 1.27 | -0.01 | | |
| -5.97 | -3.58 | -2.19 | | |
| 1.46 | -4.05 | -5.33 | | |
| 1.28 | -3.18 | -4.26 | | |
| 16.09 | 0.28 | -1 | | |
| 3.13 | -0.94 | 0.14 | | |
| 2.65 | -1.82 | -0.5 | | |
| 2.61 | -2.54 | -1.2 | | |
| 2.25 | -0.08 | 1.47 | | |
| 2.12 | -2.04 | -0.4 | | |
| 2.04 | -1.76 | -0.05 | | |
| 1.9 | -1.27 | 0.53 | | |
| 1.87 | -1.89 | -0.07 | | |
| 1.8 | -2.72 | -0.85 | | |
| 1.69 | -0.97 | 1 | | |
| 1.68 | -2.17 | -0.18 | | |
| 1.61 | -0.85 | 1.19 | | |
| 1.52 | -0.24 | 1.88 | | |
| 1.49 | 0.14 | 2.29 | | |
| 1.48 | 0.93 | 3.09 | | |
| 1.29 | -3.4 | -1.03 | | |
| 1.23 | -2.55 | -0.11 | | |
| 1.04 | -0.48 | 2.19 | | |
| -1.08 | 0.74 | 3.58 | | |
| -1.09 | 6.16 | 9.01 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.14 | 0.41 | 3.33 | | |
| -1.17 | -3.3 | -0.34 | | |
| -1.24 | 2.23 | 5.26 | | |
| 3.02 | -2.33 | -3.61 | | |
| -1.66 | -1.2 | -0.15 | | |
| -1.75 | -0.55 | 0.57 | | |
| 10.79 | 0.63 | -0.65 | | |
| 10.18 | -0.14 | -1.34 | | |
| 10.07 | -0.5 | -1.68 | | |
| 2.22 | -1.63 | -0.63 | | |
| 2.1 | 0.16 | 1.24 | | |
| 1.95 | -3.65 | -2.46 | | |
| 1.82 | -2.14 | -0.86 | | |
| 1.74 | 0.24 | 1.59 | | |
| 1.69 | -3.63 | -2.23 | | |
| 1.66 | 1.04 | 2.46 | | |
| 1.43 | -4.25 | -2.61 | | |
| 1.39 | 1.93 | 3.61 | | |
| 1.25 | -3.48 | -1.65 | | |
| 1.17 | -1.05 | 0.87 | | |
| 1.02 | -4.39 | -2.27 | | |
| -1.14 | -4.19 | -1.85 | | |
| -1.39 | -4.05 | -1.42 | | |
| 1.95 | -2.84 | -4.12 | | |
| 1.65 | -1.66 | -2.7 | | |
| -2.79 | -1.9 | -0.74 | | |
| 3.71 | -0.45 | -1.73 | | |
| 3.33 | 0.26 | -0.86 | | |
| 3.12 | 0.18 | -0.85 | | |
| -1.55 | -1.55 | -0.31 | | |
| -1.93 | 0.53 | 2.09 | | |
| 3.32 | 1.27 | -0.02 | | |
| 3.11 | 1.72 | 0.54 | | |
| 2.97 | 1.29 | 0.17 | | |
| -1.58 | -0.45 | 0.66 | | |
| 1.75 | 2.44 | 1.16 | | |
| 1.73 | -0.6 | -1.86 | | |
| 1.44 | 1 | 0 | | |
| 1.85 | 1.82 | 0.54 | | |
| 1.79 | 1.86 | 0.63 | | |
| 1.72 | 1.28 | 0.1 | | |
| 2.3 | -0.64 | -1.92 | | |
| 2.13 | 0.12 | -1.05 | | |
| -2.2 | -2.36 | -1.3 | | |
| -3.74 | -0.73 | 1.1 | | |
| 2.6 | -4.99 | -6.27 | | |
| 2.26 | -3.17 | -4.25 | | |
| -2.18 | -6.74 | -5.52 | | |
| -2.2 | -2.99 | -1.75 | | |
| -2.64 | -6.06 | -4.56 | | |
| 3.28 | 0.61 | -0.67 | | |
| 3 | 0.33 | -0.82 | | |
| 2.9 | -0.55 | -1.65 | | |
| 2.82 | 1.84 | 0.78 | | |
| 2.81 | 0.06 | -1 | | |
| 2.84 | -0.59 | -1.87 | | |
| 2.47 | -0.76 | -1.84 | | |
| 2.34 | -3.31 | -4.32 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.74 | -1.91 | -0.89 | | |
| -1.76 | -4.79 | -3.75 | | |
| -1.76 | -0.04 | 1 | | |
| -1.98 | -1.91 | -0.71 | | |
| -2.16 | -1.83 | -0.5 | | |
| -2.16 | -2.43 | -1.1 | | |
| -2.21 | -4.36 | -3 | | |
| 1.3 | -3.35 | -4.63 | | |
| -8.03 | -4.43 | -2.33 | | |
| 1.86 | -4.31 | -5.59 | | |
| 1.61 | -5.62 | -6.7 | | |
| -4.46 | -7.55 | -5.78 | | |
| 1.9 | -2.01 | -3.29 | | |
| 1.66 | 1.49 | 0.4 | | |
| 1.58 | -1.3 | -2.31 | | |
| -2.87 | -2.01 | -0.84 | | |
| -3.17 | -3.23 | -1.91 | | |
| 1.05 | -4.81 | -6.09 | | |
| -5.23 | -4.16 | -2.98 | | |
| -5.28 | -7.61 | -6.43 | | |
| 2.39 | 1.44 | 0.16 | | |
| 2.06 | 1.28 | 0.22 | | |
| 2.89 | 1.01 | -0.27 | | |
| -1.83 | 3.32 | 4.44 | | |
| -2.22 | 1.98 | 3.38 | | |
| 1.39 | -2.61 | -3.89 | | |
| 1.31 | -0.07 | -1.26 | | |
| 1.19 | -2.5 | -3.56 | | |
| 1.15 | 1.05 | 0.05 | | |
| 1.74 | -2.95 | -4.24 | | |
| -2.98 | -4.66 | -3.57 | | |
| -4.14 | -5.93 | -4.36 | | |
| 2.16 | 0.01 | -1.27 | | |
| 1.99 | -0.08 | -1.24 | | |
| 2.19 | -2.94 | -4.22 | | |
| 1.91 | -5.75 | -6.83 | | |
| -2.33 | -3.48 | -2.41 | | |
| -2.93 | -2.57 | -1.17 | | |
| -3 | -6.24 | -4.81 | | |
| 2.16 | 2.65 | 1.37 | | |
| 1.89 | -0.73 | -1.82 | | |
| 1.78 | 0.04 | -0.96 | | |
| -2.29 | -1.04 | -0.01 | | |
| -2.39 | -0.88 | 0.21 | | |
| -2.76 | -2.6 | -1.31 | | |
| -3.36 | -1.9 | -0.32 | | |
| 2.16 | 2.43 | 1.15 | | |
| 2.11 | 2.73 | 1.49 | | |
| 2.07 | -0.31 | -1.53 | | |
| 1.89 | -0.95 | -2.04 | | |
| 1.78 | -0.17 | -1.18 | | |
| -2.29 | -1.26 | -0.23 | | |
| -2.39 | -1.1 | -0.01 | | |
| -2.76 | -2.82 | -1.52 | | |
| -3.36 | -2.12 | -0.54 | | |
| 1.71 | -1.95 | -3.23 | | |
| 1.64 | -1.69 | -2.91 | | |
| 1.56 | -0.29 | -1.44 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.41 | -2.64 | -3.65 | | |
| 1.2 | -7.41 | -8.68 | | |
| 1.15 | -4.8 | -6.01 | | |
| -4.33 | -7.75 | -6.64 | | |
| -4.55 | -6.41 | -5.24 | | |
| -4.64 | -5.22 | -4.02 | | |
| 1.67 | -1.41 | -2.69 | | |
| 1.62 | -1.66 | -2.89 | | |
| -2.93 | -4.12 | -3.1 | | |
| -2.98 | -5.29 | -4.24 | | |
| -3.32 | -4.15 | -2.95 | | |
| 5.67 | -1.39 | -2.66 | | |
| 1.13 | -5.01 | -3.96 | | |
| 1.13 | -3.68 | -2.62 | | |
| 1.07 | -3.72 | -2.58 | | |
| 1.03 | -0.96 | 0.23 | | |
| -1.02 | -3.68 | -2.42 | | |
| -1.3 | -5.31 | -3.7 | | |
| 1.87 | -1.37 | -2.64 | | |
| 1.59 | 3.11 | 2.07 | | |
| -2.92 | -2.6 | -1.42 | | |
| -2.96 | 0.35 | 1.55 | | |
| -3.92 | -2.73 | -1.13 | | |
| 1.19 | 6.03 | 4.76 | | |
| 1.14 | 2.83 | 1.6 | | |
| 1.07 | 1.58 | 0.45 | | |
| 1.01 | 0.68 | -0.36 | | |
| 3.16 | -4.87 | -6.14 | | |
| 2.99 | -4.76 | -5.96 | | |
| 2.95 | -3.57 | -4.75 | | |
| 2.94 | -6.19 | -7.37 | | |
| 2.87 | -2.1 | -3.24 | | |
| 2.79 | -3.48 | -4.58 | | |
| 2.74 | -1.86 | -2.94 | | |
| 2.66 | -4.56 | -5.59 | | |
| 2.64 | -6.01 | -7.03 | | |
| 2.61 | -2.67 | -3.68 | | |
| 2.61 | -1.62 | -2.62 | | |
| -1.61 | -6.81 | -5.74 | | |
| 1.52 | -2.51 | -3.78 | | |
| 1.52 | -0.73 | -2.01 | | |
| 1.45 | -2.36 | -3.57 | | |
| 1.35 | -2.42 | -3.52 | | |
| 1.34 | -0.3 | -1.39 | | |
| 1.32 | -0.7 | -1.77 | | |
| 1.28 | -0.39 | -1.41 | | |
| -3.8 | -2.98 | -1.73 | | |
| -4.46 | -3.11 | -1.63 | | |
| 1.23 | 4.07 | 2.8 | | |
| 1.05 | -0.06 | -1.1 | | |
| 1.05 | -0.68 | -1.72 | | |
| 1.25 | -0.96 | -2.24 | | |
| 1.22 | -1.03 | -2.29 | | |
| 1.22 | -1.72 | -2.97 | | |
| 1.2 | -1.04 | -2.26 | | |
| 1.05 | 3.89 | 2.86 | | |
| 1.03 | 0.28 | -0.72 | | |
| -4.64 | -2.83 | -1.57 | | |

| | | | | |
|-------|-------|-------|--|--|
| -5.4 | -3.77 | -2.29 | | |
| 1.23 | -2.03 | -3.3 | | |
| 1.07 | -1.34 | -2.42 | | |
| -4.54 | -3.87 | -2.66 | | |
| 1.55 | -2.15 | -3.42 | | |
| 1.32 | 3.72 | 2.67 | | |
| -3.18 | -1.95 | -0.93 | | |
| -5.42 | -1.58 | 0.22 | | |
| 1.49 | -1.22 | -2.49 | | |
| 1.39 | -1.31 | -2.48 | | |
| 1.26 | -2.94 | -3.97 | | |
| -3.25 | -3.85 | -2.85 | | |
| -3.44 | -1.05 | 0.04 | | |
| -3.47 | -2.02 | -0.92 | | |
| -3.63 | -5.13 | -3.97 | | |
| -6.63 | -4.84 | -2.81 | | |
| 1.55 | -0.64 | -1.92 | | |
| 1.47 | -4.78 | -5.98 | | |
| 1.28 | -1.06 | -2.06 | | |
| 2.16 | 2.43 | 1.15 | | |
| 2.11 | 2.73 | 1.49 | | |
| 2.07 | -0.31 | -1.53 | | |
| 1.89 | -0.95 | -2.04 | | |
| 1.78 | -0.18 | -1.17 | | |
| -2.29 | -1.26 | -0.23 | | |
| -2.39 | -1.11 | -0.01 | | |
| -2.76 | -2.82 | -1.52 | | |
| -3.36 | -2.12 | -0.54 | | |
| 2.53 | -0.61 | -1.88 | | |
| -2.23 | -2.32 | -1.1 | | |
| -2.56 | -2.08 | -0.66 | | |
| 2.88 | 0.95 | -0.32 | | |
| -2.2 | -0.87 | 0.52 | | |
| -2.21 | -2.78 | -1.37 | | |
| 3.31 | -4.81 | -6.09 | | |
| -1.87 | -4.73 | -3.38 | | |
| 2.75 | -1.33 | -2.6 | | |
| -1.8 | -1.61 | -0.58 | | |
| 1.88 | -4.46 | -5.74 | | |
| 1.81 | -3.28 | -4.51 | | |
| 1.69 | 0.23 | -1.05 | | |
| -3.54 | 0.43 | 1.73 | | |
| 4.15 | -0.62 | -1.89 | | |
| 4.06 | 0.02 | -1.23 | | |
| -2.99 | -4.86 | -2.5 | | |
| 1.61 | -2.27 | -3.54 | | |
| 1.49 | -3.36 | -4.51 | | |
| 1.37 | 1.83 | 0.8 | | |
| 2.12 | -3.15 | -4.42 | | |
| -2.35 | -1.48 | -0.43 | | |
| -4.51 | -4.11 | -2.13 | | |
| 1.97 | 1.24 | -0.03 | | |
| 1.96 | 2.19 | 0.93 | | |
| 1.76 | -1.34 | -2.45 | | |
| 1.69 | 2.88 | 1.84 | | |
| -2.56 | -2.48 | -1.41 | | |
| -2.76 | -2.45 | -1.27 | | |
| -2.8 | -4.35 | -3.16 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.38 | -0.8 | -2.07 | | |
| 2.36 | -1.15 | -2.4 | | |
| 2.27 | -2.14 | -3.34 | | |
| 2.14 | -1.24 | -2.36 | | |
| -2.18 | -3.48 | -2.37 | | |
| -3.12 | -3.11 | -1.48 | | |
| -3.77 | -2.17 | -0.27 | | |
| 1.99 | -2.42 | -3.68 | | |
| 1.9 | -2.47 | -3.67 | | |
| -3.32 | -1.3 | 0.16 | | |
| 2.24 | 4.24 | 2.97 | | |
| 2.13 | 1.06 | -0.14 | | |
| 2.06 | 0.1 | -1.06 | | |
| -2.48 | -0.39 | 0.81 | | |
| -3.05 | 1.64 | 3.14 | | |
| 1.72 | 2.84 | 1.58 | | |
| 1.69 | 0.98 | -0.27 | | |
| 2.8 | -2.08 | -3.34 | | |
| 2.39 | 2.89 | 1.85 | | |
| -1.75 | -3.82 | -2.79 | | |
| -1.78 | -4.11 | -3.06 | | |
| -1.84 | -2.73 | -1.64 | | |
| -1.85 | -3.23 | -2.12 | | |
| -2.55 | -3.81 | -2.24 | | |
| 16.78 | -2.81 | -4.08 | | |
| 14.08 | -0.12 | -1.14 | | |
| 3.29 | -3.07 | -1.99 | | |
| 1.64 | -0.26 | 1.83 | | |
| 1.63 | -7.56 | -5.46 | | |
| 1.35 | -1.81 | 0.56 | | |
| 1.18 | -6.69 | -4.13 | | |
| -1.02 | -0.09 | 2.74 | | |
| -1.06 | -0.69 | 2.19 | | |
| -1.07 | 2.43 | 5.32 | | |
| 1.48 | 1.9 | 0.63 | | |
| 1.29 | 0.93 | -0.14 | | |
| 1.24 | 3.23 | 2.21 | | |
| 17.18 | -0.82 | -2.09 | | |
| 15.68 | -1.58 | -2.72 | | |
| 2.63 | 0.61 | 2.05 | | |
| 1.89 | -5.63 | -3.71 | | |
| 1.51 | -6.66 | -4.42 | | |
| 1.51 | -6.55 | -4.31 | | |
| 1.44 | -6.11 | -3.8 | | |
| 1.36 | -4.05 | -1.66 | | |
| 1.34 | -5.62 | -3.21 | | |
| 1.32 | -6.26 | -3.83 | | |
| 1.29 | -5.18 | -2.71 | | |
| 1.28 | -5.59 | -3.12 | | |
| 1.21 | -2 | 0.56 | | |
| 1.11 | -4.05 | -1.37 | | |
| 1.11 | -5.28 | -2.6 | | |
| 1.09 | -6.24 | -3.53 | | |
| 1.08 | -7.55 | -4.83 | | |
| 1.07 | -6.16 | -3.43 | | |
| 1.07 | -1.8 | 0.94 | | |
| 1.05 | -5.69 | -2.93 | | |
| -1.07 | -6.68 | -3.75 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.08 | -5.48 | -2.53 | | |
| -1.19 | -8.72 | -5.63 | | |
| -1.25 | -4.96 | -1.81 | | |
| 1.46 | -3.47 | -4.73 | | |
| 1.37 | -3.95 | -5.13 | | |
| -4.49 | -4.06 | -2.61 | | |
| -4.68 | -5.05 | -3.55 | | |
| 2.35 | -0.16 | -1.43 | | |
| -2.56 | 0.56 | 1.88 | | |
| 2.37 | 3 | 1.73 | | |
| -2.09 | -3.1 | -2.06 | | |
| -2.12 | -2.46 | -1.4 | | |
| -2.21 | -1.81 | -0.68 | | |
| -2.43 | -1.88 | -0.62 | | |
| -2.69 | 1.96 | 3.37 | | |
| 2.84 | 4.53 | 3.27 | | |
| 2.4 | -0.15 | -1.18 | | |
| 2.04 | 3 | 1.73 | | |
| -2.64 | -0.7 | 0.45 | | |
| 2.29 | -2.54 | -3.81 | | |
| 2.29 | -1.03 | -2.3 | | |
| 1.93 | -0.16 | -1.19 | | |
| 2.29 | -2.54 | -3.81 | | |
| 2.29 | -1.03 | -2.3 | | |
| 1.93 | -0.16 | -1.19 | | |
| 2.29 | -2.54 | -3.81 | | |
| 2.29 | -1.03 | -2.3 | | |
| 1.93 | -0.16 | -1.19 | | |
| 2.29 | -2.54 | -3.81 | | |
| 2.29 | -1.03 | -2.3 | | |
| 1.93 | -0.16 | -1.19 | | |
| 1.49 | -2.05 | -3.33 | | |
| 1.41 | -4.16 | -5.35 | | |
| 1.23 | -0.4 | -1.4 | | |
| 1.79 | -0.15 | -1.41 | | |
| 1.76 | -0.67 | -1.91 | | |
| -2.71 | 1.1 | 2.11 | | |
| -3.18 | -1.24 | 0 | | |
| -3.37 | -1.72 | -0.39 | | |
| 2.43 | 2.37 | 1.1 | | |
| -2.51 | -1.69 | -0.35 | | |
| -2.86 | -2.11 | -0.58 | | |
| -3.09 | -2.4 | -0.76 | | |
| -4.75 | -2.57 | -0.3 | | |
| 2.17 | 2 | 0.74 | | |
| 2.06 | 0.22 | -0.97 | | |
| 7.42 | -1.22 | -2.49 | | |
| 6.49 | -2.65 | -3.72 | | |
| 1.54 | 0.54 | 1.54 | | |
| 1.18 | 0.16 | 1.55 | | |
| 1.17 | -3.99 | -2.6 | | |
| 1.06 | -2.87 | -1.32 | | |
| 1.02 | -4.09 | -2.49 | | |
| -1.09 | 4.48 | 6.23 | | |
| -1.1 | -4.7 | -2.93 | | |
| -1.47 | -2.25 | -0.07 | | |
| 1.94 | -2.1 | -3.36 | | |
| -2.91 | -2.74 | -1.5 | | |

| | | | | |
|-------|-------|-------|--|--|
| 6.43 | 1.4 | 0.14 | | |
| 5.85 | -2.23 | -3.36 | | |
| 5.86 | -2.98 | -4.11 | | |
| 5.81 | 1.48 | 0.37 | | |
| 5.44 | -2.16 | -3.18 | | |
| 1.34 | -2.15 | -1.15 | | |
| 1.25 | 1.1 | 2.21 | | |
| 1.24 | -3.04 | -1.93 | | |
| 1.21 | -1.88 | -0.74 | | |
| 1.22 | -1.05 | 0.1 | | |
| 1.17 | 2.09 | 3.29 | | |
| 1.17 | -3.83 | -2.63 | | |
| 1.15 | 0.47 | 1.7 | | |
| 1.1 | -1.34 | -0.05 | | |
| 1.09 | 0.78 | 2.08 | | |
| 1.04 | -2.33 | -0.96 | | |
| 1.03 | -1.23 | 0.16 | | |
| 1.01 | -1.67 | -0.26 | | |
| 1 | -2.72 | -1.3 | | |
| -1.01 | -0.29 | 1.15 | | |
| -1.08 | -2.69 | -1.16 | | |
| -1.16 | -2.37 | -0.73 | | |
| -1.2 | -4.81 | -3.13 | | |
| 1.33 | -3.08 | -4.34 | | |
| 1.28 | 0.29 | -0.91 | | |
| 1.22 | -0.89 | -2.03 | | |
| 1.18 | 3.53 | 2.45 | | |
| -3.84 | -2.46 | -1.37 | | |
| 3.64 | 1.65 | 0.38 | | |
| -1.49 | -2.31 | -1.14 | | |
| -1.57 | -2.08 | -0.83 | | |
| 1.18 | 4.14 | 2.87 | | |
| 1.07 | 1.91 | 0.79 | | |
| 1.02 | -0.47 | -1.51 | | |
| 2.8 | 1.98 | 0.71 | | |
| 2.68 | 1.57 | 0.37 | | |
| -1.83 | 3.67 | 4.76 | | |
| 2.63 | 4.27 | 3.01 | | |
| -1.83 | 3.95 | 4.96 | | |
| -2.22 | 2.61 | 3.89 | | |
| 2.03 | -0.31 | -1.57 | | |
| 1.9 | -2.64 | -3.8 | | |
| 1.78 | -1.43 | -2.5 | | |
| 1.68 | -0.4 | -1.66 | | |
| 1.54 | 2.18 | 1.05 | | |
| 1.46 | 1.77 | 0.72 | | |
| 1.47 | 1.06 | -0.2 | | |
| 1.46 | -0.96 | -2.21 | | |
| 1.4 | 3.22 | 2.02 | | |
| 1.4 | -1.6 | -2.79 | | |
| 1.32 | 0.37 | -0.73 | | |
| 1.25 | 0.11 | -0.91 | | |
| 1.24 | 1.03 | 0.02 | | |
| 1.59 | 3.53 | 2.27 | | |
| 1.44 | 4.71 | 3.6 | | |
| 1.34 | 3.2 | 2.19 | | |
| -3.04 | 0.11 | 1.13 | | |
| -3.06 | -2.12 | -1.09 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.69 | -1.2 | 0.45 | | |
| 2.52 | -2.23 | -3.49 | | |
| 2.19 | -1.18 | -2.23 | | |
| -2.19 | -1.81 | -0.6 | | |
| 1.41 | -2.19 | -3.44 | | |
| 1.34 | 2.92 | 1.74 | | |
| 1.28 | 0.59 | -0.52 | | |
| 1.23 | -3.13 | -4.18 | | |
| -4.71 | -2.92 | -1.44 | | |
| 2.72 | 1.89 | 0.64 | | |
| -1.81 | -0.98 | 0.06 | | |
| -2.14 | 0.68 | 1.97 | | |
| -3.26 | -1.24 | 0.65 | | |
| 2.46 | -4.42 | -5.68 | | |
| 2.15 | 1.96 | 0.89 | | |
| -1.98 | -1.02 | 0 | | |
| -2.01 | -2.46 | -1.42 | | |
| -2.04 | -5.07 | -4.01 | | |
| -2.08 | -1.47 | -0.37 | | |
| -2.11 | -2.52 | -1.41 | | |
| -2.27 | -3.05 | -1.83 | | |
| -2.38 | -2.5 | -1.21 | | |
| -2.52 | -2.45 | -1.08 | | |
| -2.65 | -2.64 | -1.2 | | |
| -2.66 | -2.01 | -0.56 | | |
| -2.92 | -3.67 | -2.09 | | |
| 2.81 | 0.22 | -1.04 | | |
| -2.63 | -1.47 | 0.16 | | |
| 1.1 | 7.95 | 6.69 | | |
| 1.06 | 2.32 | 1.12 | | |
| -1.02 | -0.21 | -1.31 | | |
| -1.08 | 5.57 | 4.55 | | |
| 2.43 | -0.64 | -1.89 | | |
| -1.96 | 0.5 | 1.5 | | |
| -2.16 | -3.71 | -2.57 | | |
| 2.56 | -1.25 | -2.5 | | |
| -1.93 | -3.58 | -2.52 | | |
| -2.03 | -3.85 | -2.73 | | |
| -2.38 | -4.22 | -2.87 | | |
| -2.48 | -4.69 | -3.27 | | |
| -2.67 | -3.83 | -2.3 | | |
| 2.41 | -0.72 | -1.98 | | |
| -2.11 | -4.71 | -3.62 | | |
| 1.55 | -2.21 | -3.46 | | |
| 1.51 | -3.56 | -4.77 | | |
| 1.46 | -2 | -3.16 | | |
| 1.85 | -2.97 | -4.23 | | |
| 1.69 | -0.56 | -1.69 | | |
| 1.66 | 1.65 | 0.55 | | |
| -2.67 | -4.1 | -3.05 | | |
| 1.23 | 1.13 | -0.12 | | |
| 1.12 | 0.42 | -0.71 | | |
| 1.11 | 5.92 | 4.8 | | |
| 1.08 | 3.77 | 2.69 | | |
| -3.99 | -2.42 | -1.38 | | |
| -4.23 | -1.75 | -0.63 | | |
| -4.34 | 0.15 | 1.31 | | |
| 1.53 | -1.03 | -2.29 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.45 | -0.74 | -1.91 | | |
| 1.41 | 1 | -0.14 | | |
| 1.41 | -1.02 | -2.16 | | |
| 2.29 | -2.79 | -4.04 | | |
| 2.06 | 2.47 | 1.37 | | |
| 1.93 | -2.21 | -3.46 | | |
| -2.85 | -4.29 | -3.09 | | |
| 1.07 | 3.58 | 2.33 | | |
| 1.04 | -0.28 | -1.49 | | |
| 1.02 | 3.2 | 2.02 | | |
| 1.03 | -4.21 | -5.46 | | |
| 1.01 | -1.15 | -2.38 | | |
| -4.86 | -6.38 | -5.32 | | |
| -5.67 | -6.18 | -4.89 | | |
| -5.86 | -6.24 | -4.91 | | |
| -7.35 | -4.28 | -2.62 | | |
| -8.42 | -5.1 | -3.24 | | |
| 3.01 | 0.18 | -1.08 | | |
| 2.56 | -0.62 | -1.64 | | |
| 2.59 | -1.18 | -2.43 | | |
| 2.24 | -0.34 | -1.38 | | |
| 3.18 | 0.95 | -0.31 | | |
| 2.93 | -1.26 | -2.4 | | |
| 2.93 | -1.5 | -2.63 | | |
| -1.52 | -1.55 | -0.53 | | |
| -1.52 | -0.17 | 0.85 | | |
| -1.67 | -1.96 | -0.81 | | |
| -1.91 | -3.09 | -1.74 | | |
| 3.16 | 1.18 | -0.08 | | |
| -2.08 | -0.34 | 1.12 | | |
| -2.15 | 0.44 | 1.95 | | |
| -2.25 | -1.28 | 0.3 | | |
| -2.46 | -0.07 | 1.64 | | |
| -2.84 | 0.05 | 1.96 | | |
| 3.49 | -3 | -4.26 | | |
| -1.44 | -5.25 | -4.17 | | |
| 2.14 | 0.95 | -0.3 | | |
| -2.81 | 1.34 | 2.67 | | |
| 1.92 | 2.07 | 0.82 | | |
| 1.7 | -1.97 | -3.04 | | |
| 1.66 | 0.62 | -0.43 | | |
| 3.29 | 2.59 | 1.34 | | |
| 3.05 | 3.46 | 2.32 | | |
| 2.94 | 2.55 | 1.46 | | |
| 2.05 | 1.4 | 0.15 | | |
| -3.94 | -3.82 | -2.05 | | |
| 3.17 | -1.23 | -2.48 | | |
| -1.75 | -1.46 | -0.24 | | |
| -1.79 | -1.12 | 0.13 | | |
| 2.29 | -2.69 | -3.94 | | |
| 2.29 | -1.18 | -2.44 | | |
| 1.93 | -0.31 | -1.32 | | |
| 1.27 | 2.23 | 0.98 | | |
| 1.26 | 1.27 | 0.02 | | |
| 1.26 | 0.68 | -0.56 | | |
| -4.19 | -3.79 | -2.63 | | |
| -4.41 | -2.96 | -1.73 | | |
| -5.07 | -0.44 | 0.99 | | |

| | | | | |
|-------|-------|-------|--|--|
| -5.36 | -2.16 | -0.65 | | |
| 2.94 | 2.35 | 1.1 | | |
| -1.67 | -0.15 | 0.89 | | |
| 2.34 | -1.77 | -3.02 | | |
| -3.27 | -3.5 | -1.82 | | |
| 1.88 | -2.61 | -3.86 | | |
| -2.69 | -1.5 | -0.42 | | |
| -2.76 | -5.55 | -4.42 | | |
| -3.16 | -2.01 | -0.69 | | |
| -3.24 | -1.48 | -0.12 | | |
| 1.94 | -2.37 | -3.62 | | |
| 1.73 | -6.03 | -7.11 | | |
| 1.7 | -5.42 | -6.48 | | |
| -3.07 | -4.12 | -2.79 | | |
| -3.42 | -5.85 | -4.37 | | |
| 1.24 | -0.3 | -1.55 | | |
| -4.32 | -1.14 | 0.03 | | |
| 2.42 | -0.59 | -1.84 | | |
| 2.3 | -1.31 | -2.49 | | |
| -2.19 | -2.19 | -1.03 | | |
| 1.6 | 0.17 | -1.08 | | |
| -3.63 | -4.28 | -2.99 | | |
| 1.42 | -0.52 | -1.77 | | |
| 1.27 | 1.95 | 0.85 | | |
| 1.59 | -2.87 | -4.12 | | |
| -3.09 | -2.96 | -1.91 | | |
| 1.71 | -2.05 | -3.3 | | |
| 1.64 | -1.8 | -2.99 | | |
| 1.56 | -0.39 | -1.52 | | |
| 1.39 | -4.64 | -5.88 | | |
| 1.18 | -2.1 | -3.1 | | |
| -3.78 | -3.28 | -2.13 | | |
| -4.62 | -2.37 | -0.93 | | |
| 1.62 | 1.49 | 0.24 | | |
| 1.37 | -3.34 | -4.34 | | |
| -3.88 | -1.82 | -0.41 | | |
| -4.02 | -2.4 | -0.94 | | |
| 3.37 | -0.41 | -1.65 | | |
| -1.42 | -0.54 | 0.47 | | |
| -2.04 | -5.81 | -4.27 | | |
| 2.67 | 1.67 | 0.43 | | |
| -1.99 | -0.55 | 0.61 | | |
| -2.2 | 0.66 | 1.97 | | |
| 3.04 | 0.51 | -0.74 | | |
| -1.62 | 0.22 | 1.28 | | |
| -1.71 | -2.48 | -1.35 | | |
| 2.78 | -3.38 | -4.62 | | |
| 2.6 | -4.04 | -5.18 | | |
| -1.83 | -4.89 | -3.79 | | |
| -1.86 | -2.36 | -1.23 | | |
| 1.14 | -0.13 | -1.38 | | |
| 1.13 | 4.4 | 3.16 | | |
| 2.17 | -0.67 | -1.91 | | |
| -2.36 | -3.38 | -2.27 | | |
| -3.54 | -3.78 | -2.08 | | |
| 1.89 | -3.12 | -4.36 | | |
| -3.69 | -2.4 | -0.85 | | |
| 1.67 | -0.04 | -1.28 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.63 | -1.76 | -2.98 | | |
| -3.13 | -4.94 | -3.8 | | |
| -3.5 | -6.15 | -4.85 | | |
| -4.71 | -5.65 | -3.92 | | |
| 1.2 | 0.9 | -0.35 | | |
| 1.09 | 3.48 | 2.38 | | |
| 1.03 | -3.67 | -4.7 | | |
| -1.2 | -0.75 | -1.99 | | |
| -1.21 | 2.18 | 0.95 | | |
| -1.23 | -1.05 | -2.27 | | |
| -1.28 | -1.14 | -2.29 | | |
| -1.39 | 3.24 | 2.2 | | |
| 2.3 | 1.63 | 0.38 | | |
| 2.27 | 1.95 | 0.72 | | |
| 1.71 | 0.43 | -0.81 | | |
| 1.63 | 0.19 | -0.98 | | |
| 1.49 | -1.3 | -2.34 | | |
| -3.28 | -2.24 | -0.99 | | |
| -6.3 | -3.56 | -1.37 | | |
| 7.59 | -2.13 | -3.37 | | |
| 1.49 | 1.79 | 2.89 | | |
| 1.31 | 2.12 | 3.41 | | |
| -1.44 | -2.67 | -0.47 | | |
| 1.38 | -1.87 | -3.11 | | |
| 1.28 | 2.79 | 1.66 | | |
| 1.93 | -0.05 | -1.29 | | |
| 1.65 | 1.14 | 0.12 | | |
| -2.49 | -3.19 | -2.17 | | |
| -2.78 | -2.94 | -1.76 | | |
| -3.39 | -2.82 | -1.35 | | |
| 3.21 | 1.07 | -0.17 | | |
| -1.52 | 1.03 | 2.07 | | |
| -1.59 | 1.02 | 2.12 | | |
| -2.49 | 0.92 | 2.67 | | |
| 2.88 | -1.8 | -3.04 | | |
| 2.77 | -4.95 | -6.14 | | |
| 2.55 | -3.79 | -4.86 | | |
| -1.73 | -6.17 | -5.09 | | |
| -1.81 | -2.8 | -1.66 | | |
| -2.02 | -5.41 | -4.11 | | |
| 1.15 | -0.87 | -2.12 | | |
| 1.13 | 2.19 | 0.97 | | |
| 1 | -2.45 | -3.5 | | |
| -1.01 | 1.07 | 0.05 | | |
| -1.03 | 3.13 | 2.13 | | |
| -1.03 | -1.26 | -2.26 | | |
| -4.26 | -2.93 | -1.89 | | |
| 3.32 | 1.45 | 0.21 | | |
| 2.84 | 0.65 | -0.37 | | |
| -1.52 | -0.92 | 0.17 | | |
| -1.76 | -1.42 | -0.12 | | |
| 1.87 | 3.27 | 2.03 | | |
| -2.61 | -3.14 | -2.1 | | |
| -2.72 | -1.38 | -0.28 | | |
| -3.23 | -2.72 | -1.37 | | |
| 1.38 | -0.4 | -1.64 | | |
| 1.26 | -0.69 | -1.8 | | |
| 1.23 | 1.12 | 0.04 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.17 | 0.74 | -0.27 | | |
| -8.24 | -1.96 | 0.3 | | |
| 2.65 | -1.29 | -2.54 | | |
| 2.45 | -1.52 | -2.65 | | |
| -2.36 | 0.55 | 1.95 | | |
| 2.65 | -1.29 | -2.53 | | |
| 2.45 | -1.52 | -2.64 | | |
| -2.36 | 0.55 | 1.95 | | |
| 3.28 | 4.5 | 3.26 | | |
| -1.68 | -1.06 | 0.16 | | |
| 1.22 | 5.69 | 4.45 | | |
| 1.1 | 0.23 | -0.88 | | |
| 1.04 | 0.22 | -0.79 | | |
| -3.93 | -1.29 | -0.28 | | |
| -6.52 | -3.03 | -1.29 | | |
| -6.66 | -1.7 | 0.08 | | |
| 1.71 | -1.94 | -3.19 | | |
| 1.64 | -1.69 | -2.87 | | |
| 1.56 | -0.28 | -1.4 | | |
| 1.71 | -1.94 | -3.19 | | |
| 1.64 | -1.69 | -2.87 | | |
| 1.56 | -0.28 | -1.4 | | |
| 1.71 | -1.94 | -3.19 | | |
| 1.64 | -1.69 | -2.87 | | |
| 1.56 | -0.28 | -1.4 | | |
| 1.82 | 0 | -1.25 | | |
| 1.53 | -0.18 | -1.17 | | |
| 1.81 | -0.88 | -2.12 | | |
| 1.73 | -1.87 | -3.05 | | |
| -2.63 | -2.81 | -1.81 | | |
| 1.23 | 0.79 | -0.45 | | |
| 1.19 | -3 | -4.18 | | |
| 1.14 | 6.23 | 5.11 | | |
| 1.04 | 4.06 | 3.06 | | |
| 1.56 | 0.05 | -1.19 | | |
| 1.42 | -3.49 | -4.59 | | |
| 1.39 | 0.22 | -0.84 | | |
| -3.12 | -1.96 | -0.91 | | |
| -4.91 | -3.65 | -1.95 | | |
| 2.2 | 1.26 | 0.02 | | |
| -2.2 | -3.31 | -2.27 | | |
| 1.6 | 0.16 | -1.08 | | |
| 1.43 | -0.01 | -1.08 | | |
| 1.39 | 0.26 | -0.78 | | |
| -4.4 | -2.4 | -0.82 | | |
| 1.43 | -1.77 | -3.01 | | |
| 1.31 | -0.24 | -1.35 | | |
| -3.79 | -1.33 | -0.12 | | |
| 1.89 | -2.12 | -3.36 | | |
| 1.67 | -0.83 | -1.89 | | |
| -2.69 | -1.55 | -0.44 | | |
| -3.1 | -0.22 | 1.09 | | |
| -3.31 | -3.23 | -1.82 | | |
| -3.92 | -0.61 | 1.04 | | |
| -4.22 | -0.66 | 1.1 | | |
| -7.27 | -1.1 | 1.44 | | |
| 2.42 | -0.38 | -1.61 | | |
| 2.33 | -3.03 | -4.21 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.28 | -1.97 | -3.13 | | |
| 2.08 | -0.44 | -1.46 | | |
| 2.07 | -5.24 | -6.25 | | |
| 1.95 | -2.06 | -3.3 | | |
| 1.82 | -1.45 | -2.58 | | |
| 1.69 | -3.15 | -4.18 | | |
| -2.84 | -3.17 | -1.94 | | |
| 3.71 | 0.19 | -1.05 | | |
| 3.59 | -0.87 | -2.06 | | |
| -1.34 | -2.96 | -1.88 | | |
| 2.25 | -2.17 | -3.4 | | |
| -2.3 | -2.08 | -0.95 | | |
| -2.43 | -5.21 | -4 | | |
| -2.63 | -2.77 | -1.44 | | |
| -3.07 | -2.78 | -1.23 | | |
| 1.64 | 1.56 | 0.32 | | |
| -4.19 | -0.39 | 1.16 | | |
| 8.56 | -1.21 | -2.45 | | |
| 7.32 | 0.92 | -0.09 | | |
| 1.41 | -3.04 | -1.68 | | |
| 1.18 | -2.21 | -0.6 | | |
| -1.26 | -2.59 | -0.39 | | |
| 1.27 | 0.55 | -0.69 | | |
| 1.13 | 0.89 | -0.19 | | |
| 1.7 | -4.66 | -5.9 | | |
| -2.96 | -4.36 | -3.27 | | |
| 1.42 | -1.3 | -2.54 | | |
| 1.42 | -1.08 | -2.32 | | |
| 2.84 | -2.06 | -3.29 | | |
| -1.9 | -3.72 | -2.52 | | |
| 1.63 | -1.31 | -2.54 | | |
| 1.46 | -2.05 | -3.12 | | |
| 1.45 | -2.88 | -3.94 | | |
| -2.97 | -1.24 | -0.19 | | |
| 2.21 | 2.67 | 1.43 | | |
| -2.44 | -0.75 | 0.45 | | |
| 1.24 | -3.78 | -5.02 | | |
| 1.06 | -2.05 | -3.06 | | |
| -4.29 | -4.48 | -3.3 | | |
| 1.59 | -3.21 | -4.44 | | |
| -3.13 | -1.68 | -0.59 | | |
| 1.85 | 1.42 | 0.19 | | |
| 1.81 | -1.09 | -2.29 | | |
| -2.6 | -4.47 | -3.43 | | |
| -3.37 | -3.43 | -2.02 | | |
| 1.89 | -1.74 | -2.97 | | |
| 1.85 | -4.26 | -5.46 | | |
| 1.85 | -3.85 | -5.05 | | |
| -2.48 | -2.49 | -1.49 | | |
| -2.48 | -5.17 | -4.17 | | |
| -3.08 | -3.07 | -1.77 | | |
| 1.04 | 0.77 | -0.46 | | |
| -5.35 | -1.11 | 0.13 | | |
| -5.38 | 0.52 | 1.78 | | |
| -5.83 | -0.75 | 0.63 | | |
| -6.07 | -0.36 | 1.07 | | |
| -7.26 | -0.2 | 1.49 | | |
| 9.92 | -0.18 | -1.42 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.04 | 0.35 | 1.4 | | |
| 1.97 | 0.99 | 2.09 | | |
| 1.88 | -0.67 | 0.49 | | |
| 1.48 | -3.29 | -1.78 | | |
| 1.12 | -1.91 | 0.01 | | |
| 1.07 | -3.38 | -1.4 | | |
| 1.94 | -2.4 | -3.63 | | |
| -2.89 | -3.55 | -2.29 | | |
| 2.32 | -1.86 | -3.09 | | |
| -2.38 | -1.91 | -0.67 | | |
| 2.52 | -3.62 | -4.85 | | |
| -1.95 | -4.27 | -3.21 | | |
| -1.97 | -6.68 | -5.6 | | |
| -2.11 | -5.1 | -3.92 | | |
| -2.12 | -5.92 | -4.73 | | |
| -3.37 | -5.7 | -3.85 | | |
| 2.68 | -0.09 | -1.32 | | |
| 2.69 | -0.03 | -1.26 | | |
| 1.38 | 2.7 | 1.47 | | |
| 1.26 | 0.06 | -1.04 | | |
| -3.49 | 1.62 | 2.65 | | |
| -3.6 | -0.08 | 1 | | |
| -3.84 | -1.37 | -0.2 | | |
| 1.82 | 5.35 | 4.12 | | |
| 1.68 | -0.81 | -1.93 | | |
| 1.61 | 1.69 | 0.63 | | |
| 1.6 | 3.1 | 2.05 | | |
| 1.59 | 0.38 | -0.66 | | |
| 2.42 | 1.2 | -0.03 | | |
| 2.26 | 0.48 | -0.65 | | |
| 1.78 | -4.44 | -5.67 | | |
| -2.9 | -4.51 | -3.38 | | |
| 1.85 | 1.52 | 0.29 | | |
| 1.59 | 0.19 | -0.83 | | |
| 1.99 | -1.75 | -2.98 | | |
| 1.92 | -1.28 | -2.46 | | |
| 2.24 | 1.85 | 0.62 | | |
| 2.04 | -3.05 | -4.15 | | |
| 1.7 | -0.51 | -1.74 | | |
| 1.47 | -0.47 | -1.5 | | |
| -3.11 | -3.95 | -2.78 | | |
| 3.19 | -1.21 | -2.45 | | |
| -1.47 | -2.42 | -1.42 | | |
| 1.25 | 0.31 | -0.92 | | |
| 1.12 | -0.33 | -1.41 | | |
| 1.87 | 0.32 | -0.91 | | |
| 1.64 | -1.86 | -2.89 | | |
| 1.15 | 1.75 | 0.53 | | |
| 1.14 | -4.75 | -5.96 | | |
| 1.11 | -1.35 | -2.52 | | |
| 1.05 | 0.43 | -0.67 | | |
| 2.13 | 3.34 | 2.11 | | |
| 1.97 | 3.27 | 2.15 | | |
| -2.28 | -0.83 | 0.22 | | |
| -2.34 | -1.18 | -0.09 | | |
| -3.08 | -0.17 | 1.32 | | |
| -3.75 | -3.4 | -1.63 | | |
| -5.03 | -2.76 | -0.57 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.49 | -2.44 | -3.67 | | |
| 2.39 | -0.04 | -1.22 | | |
| 2.39 | -2.44 | -3.6 | | |
| 2.13 | -2.9 | -3.91 | | |
| 2.12 | -1.87 | -2.87 | | |
| 1.66 | -4.38 | -5.61 | | |
| 1.51 | -3.75 | -4.85 | | |
| 1.48 | -2.1 | -3.17 | | |
| -3.43 | -4.97 | -3.69 | | |
| 2.04 | -4.36 | -5.59 | | |
| 1.83 | -2.94 | -4.01 | | |
| -2.37 | -5.4 | -4.36 | | |
| -2.63 | -4.97 | -3.77 | | |
| -2.71 | -3.01 | -1.78 | | |
| -2.87 | -2.91 | -1.59 | | |
| -3.01 | -5.67 | -4.28 | | |
| -4.13 | -4.44 | -2.59 | | |
| 2.65 | -4 | -5.22 | | |
| -1.77 | -4.75 | -3.75 | | |
| 1.84 | 0.04 | -1.19 | | |
| 1.83 | 2.04 | 0.82 | | |
| 1.67 | 0.61 | -0.48 | | |
| -2.65 | -0.63 | 0.43 | | |
| -3.1 | -1.87 | -0.59 | | |
| 36.74 | -0.04 | -1.27 | | |
| 7.27 | -1.41 | -0.3 | | |
| 7.06 | -1.81 | -0.65 | | |
| 6.93 | 0.09 | 1.27 | | |
| 6.88 | -1.44 | -0.25 | | |
| 6.19 | -2.43 | -1.09 | | |
| 5.89 | -1.16 | 0.25 | | |
| 5.29 | -2.17 | -0.6 | | |
| 5.16 | -2 | -0.39 | | |
| 4.99 | -2.29 | -0.63 | | |
| 4.92 | -1.35 | 0.32 | | |
| 4.43 | -1.54 | 0.29 | | |
| 3.64 | -2.49 | -0.39 | | |
| 3.47 | -3.29 | -1.11 | | |
| 3.16 | -1.91 | 0.4 | | |
| 3.09 | -3.22 | -0.88 | | |
| 2.75 | -3.78 | -1.27 | | |
| 2.58 | -1.55 | 1.06 | | |
| 2.37 | -3.13 | -0.4 | | |
| 2.33 | -3.78 | -1.03 | | |
| 2.26 | -3.87 | -1.08 | | |
| 1.96 | -3.9 | -0.9 | | |
| 1.85 | -3.75 | -0.66 | | |
| 1.73 | 0.65 | 3.83 | | |
| 1.66 | -4.28 | -1.04 | | |
| 1.53 | -4.53 | -1.17 | | |
| 1.4 | -3.88 | -0.39 | | |
| 1.32 | -0.09 | 3.48 | | |
| 1.19 | -0.07 | 3.64 | | |
| 1.16 | 4.12 | 7.87 | | |
| 1.09 | -2.26 | 1.59 | | |
| -1.04 | -3.15 | 0.88 | | |
| -1.16 | -5.04 | -0.85 | | |
| 2.42 | 0.25 | -0.97 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.08 | -0.04 | 1.06 | | |
| -2.21 | -1.33 | -0.14 | | |
| -2.23 | -1.7 | -0.49 | | |
| -3.09 | -3.52 | -1.84 | | |
| 1.97 | -0.85 | -2.08 | | |
| 1.72 | -1.56 | -2.59 | | |
| 1.71 | 0.36 | -0.66 | | |
| 1.69 | -1.09 | -2.1 | | |
| 1.57 | -2.99 | -4.21 | | |
| -3.05 | -4.11 | -3.08 | | |
| -3.49 | -3.28 | -2.05 | | |
| 1.14 | 2.39 | 1.16 | | |
| 1.03 | -5.02 | -6.1 | | |
| -4.17 | -3.91 | -2.89 | | |
| -4.21 | -3.36 | -2.32 | | |
| -4.26 | -3.15 | -2.1 | | |
| -4.54 | -2.49 | -1.35 | | |
| -5.76 | -4.72 | -3.23 | | |
| 1.6 | -2.78 | -4.01 | | |
| 1.41 | -3.19 | -4.22 | | |
| 1.45 | -0.13 | -1.36 | | |
| 1.3 | 3.64 | 2.57 | | |
| 1.3 | -0.41 | -1.48 | | |
| 1.25 | 2.76 | 1.74 | | |
| 1.24 | 2.01 | 1 | | |
| -7.21 | -2.32 | -0.16 | | |
| 2.31 | -2.13 | -3.35 | | |
| -2.21 | -3.37 | -2.25 | | |
| 2.05 | -4.5 | -5.73 | | |
| 1.89 | 0.32 | -0.8 | | |
| 1.86 | -4.27 | -5.36 | | |
| -2.58 | -1.46 | -0.29 | | |
| 2.14 | -1.09 | -2.31 | | |
| -2.2 | -0.46 | 0.55 | | |
| -2.45 | -3.91 | -2.75 | | |
| -2.52 | -1.84 | -0.64 | | |
| 2.85 | 3.7 | 2.47 | | |
| 2.7 | 1.7 | 0.55 | | |
| 2.67 | 3.13 | 2 | | |
| 2.66 | 2.18 | 1.05 | | |
| 2.19 | -2.19 | -3.42 | | |
| -2.75 | -3.35 | -1.99 | | |
| -2.76 | -3.93 | -2.57 | | |
| 2.26 | 1.62 | 0.39 | | |
| -2.27 | -0.92 | 0.21 | | |
| -2.41 | -2.05 | -0.83 | | |
| 1.42 | 0.33 | -0.89 | | |
| 1.28 | -3.41 | -4.49 | | |
| 1.38 | -5.63 | -6.86 | | |
| -4.01 | -5.9 | -4.65 | | |
| -10.06 | -7.49 | -4.92 | | |
| 1.53 | -0.84 | -2.06 | | |
| 1.42 | -1.81 | -2.92 | | |
| 1.41 | -3.68 | -4.78 | | |
| 1.34 | -5.09 | -6.11 | | |
| -3.2 | -2.63 | -1.55 | | |
| 2.06 | 2.12 | 0.9 | | |
| 1.96 | 4.82 | 3.67 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.94 | -1.84 | -3.06 | | |
| 1.77 | -2.85 | -3.94 | | |
| 6.4 | -2.32 | -3.54 | | |
| 6 | -1.87 | -3 | | |
| 1.37 | -6.08 | -5.08 | | |
| 1.32 | -2.81 | -1.75 | | |
| 1.32 | -0.39 | 0.67 | | |
| 1.28 | -2.92 | -1.81 | | |
| 1.17 | -5.62 | -4.39 | | |
| 1.12 | -5.44 | -4.15 | | |
| 1.11 | -0.02 | 1.28 | | |
| -1.04 | -0.94 | 0.57 | | |
| -1.05 | -6.24 | -4.7 | | |
| -1.19 | -5.36 | -3.65 | | |
| 2.51 | -0.13 | -1.35 | | |
| 2.38 | -2.3 | -3.44 | | |
| 1.57 | 1.41 | 0.19 | | |
| 1.45 | -0.32 | -1.42 | | |
| 1.4 | 0.96 | -0.09 | | |
| 4.68 | -3.11 | -4.33 | | |
| 1.01 | -5.04 | -4.04 | | |
| -1.04 | -6.05 | -4.99 | | |
| -1.04 | -5.38 | -4.31 | | |
| -1.1 | -5.94 | -4.79 | | |
| -1.15 | -5.03 | -3.83 | | |
| -1.16 | -3.26 | -2.05 | | |
| -1.22 | 1.13 | 2.43 | | |
| -1.31 | -4.37 | -2.97 | | |
| -1.38 | -5.36 | -3.88 | | |
| -1.42 | -5.35 | -3.84 | | |
| -1.5 | -4.73 | -3.14 | | |
| -1.77 | -5.9 | -4.06 | | |
| 1.62 | -3.41 | -4.63 | | |
| 1.55 | -5.32 | -6.48 | | |
| 1.46 | -5.2 | -6.27 | | |
| -3.14 | -6.42 | -5.29 | | |
| -4.92 | -7 | -5.23 | | |
| 3.01 | 1.87 | 0.64 | | |
| -1.57 | -1.72 | -0.7 | | |
| -1.57 | -0.15 | 0.87 | | |
| -1.63 | -0.82 | 0.25 | | |
| -1.67 | -3.01 | -1.91 | | |
| -1.77 | -1.68 | -0.49 | | |
| -1.8 | -1.26 | -0.04 | | |
| -2.12 | -0.29 | 1.16 | | |
| -2.68 | -2.41 | -0.62 | | |
| 1.35 | 0.91 | -0.31 | | |
| 1.25 | 1.22 | 0.11 | | |
| -3.47 | -1.76 | -0.75 | | |
| -3.89 | -1.73 | -0.55 | | |
| -4.32 | 0.83 | 2.16 | | |
| -4.47 | 1.71 | 3.08 | | |
| -4.52 | 0.29 | 1.68 | | |
| -4.8 | -0.17 | 1.31 | | |
| -6.42 | -1.27 | 0.63 | | |
| -7.62 | -1.78 | 0.37 | | |
| 7.43 | 0.9 | -0.31 | | |
| 6.41 | -0.28 | -1.28 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.59 | -2.74 | -1.73 | | |
| 1.5 | -4.16 | -3.07 | | |
| 1.44 | -1.24 | -0.09 | | |
| 1.41 | -2.15 | -0.97 | | |
| 1.39 | -2.1 | -0.9 | | |
| 1.38 | -0.51 | 0.7 | | |
| 1.3 | -3.53 | -2.23 | | |
| 1.29 | -2.02 | -0.71 | | |
| 1.19 | -0.96 | 0.46 | | |
| 1.06 | -4.05 | -2.45 | | |
| -1.88 | -4.95 | -2.37 | | |
| 2.38 | -2.06 | -3.28 | | |
| -3.2 | -3.46 | -1.75 | | |
| 5.53 | 0.09 | -1.13 | | |
| 5.03 | -0.63 | -1.71 | | |
| -1.01 | -2.1 | -0.84 | | |
| -1.01 | -4.29 | -3.03 | | |
| -1.01 | -2.73 | -1.47 | | |
| -1.04 | -3.78 | -2.47 | | |
| -1.15 | 3.21 | 4.66 | | |
| 2.95 | 0.23 | -0.99 | | |
| -1.61 | -0.19 | 0.84 | | |
| -1.73 | -0.68 | 0.46 | | |
| -1.92 | -1.61 | -0.33 | | |
| -2.11 | -2.34 | -0.92 | | |
| -3.8 | -2.7 | -0.43 | | |
| 1.92 | -1.61 | -2.83 | | |
| -2.76 | -1.09 | 0.09 | | |
| 1.54 | 0.71 | -0.52 | | |
| 1.52 | -1.98 | -3.19 | | |
| -3.92 | -5.15 | -3.78 | | |
| -5.47 | -5.7 | -3.85 | | |
| 1.13 | 0.81 | -0.41 | | |
| 1.03 | 0.84 | -0.24 | | |
| 2.55 | 2.59 | 1.36 | | |
| -1.91 | -2.23 | -1.16 | | |
| -2.42 | 0.01 | 1.41 | | |
| 1.72 | -2.81 | -4.02 | | |
| 1.58 | -1.28 | -2.37 | | |
| 1.61 | -2.48 | -3.69 | | |
| -3.66 | -3.26 | -1.91 | | |
| 1.29 | -1.77 | -2.99 | | |
| 1.25 | -1.82 | -2.98 | | |
| 1.13 | -2.69 | -3.71 | | |
| -3.74 | -1.04 | 0.03 | | |
| 2.23 | 2.24 | 1.03 | | |
| -2.13 | -1.64 | -0.61 | | |
| -2.2 | 1.21 | 2.3 | | |
| -2.41 | -0.42 | 0.79 | | |
| 9.68 | -0.32 | -1.53 | | |
| 8.62 | 0.9 | -0.15 | | |
| 2.04 | -2.32 | -1.29 | | |
| 1.81 | 0.52 | 1.73 | | |
| 1.78 | -0.32 | 0.91 | | |
| 1.76 | 0.04 | 1.28 | | |
| 1.75 | 1.08 | 2.34 | | |
| 1.53 | -0.07 | 1.37 | | |
| 1.45 | 1.17 | 2.7 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.44 | -1.26 | 0.28 | | |
| 1.19 | -3.7 | -1.89 | | |
| 1.14 | -0.65 | 1.23 | | |
| 1.11 | 0.55 | 2.45 | | |
| 1.06 | -1.53 | 0.45 | | |
| 1.04 | 0.65 | 2.66 | | |
| 1.02 | 1.81 | 3.85 | | |
| -1.02 | -1.44 | 0.65 | | |
| -1.08 | -1.84 | 0.34 | | |
| 2.51 | 0.41 | -0.8 | | |
| 2.29 | 1.9 | 0.82 | | |
| 12.72 | 0.52 | -0.69 | | |
| 2.73 | -1.73 | -0.72 | | |
| 1.95 | -1.53 | -0.04 | | |
| 1.77 | -2.26 | -0.63 | | |
| 1.73 | 1.92 | 3.58 | | |
| 1.42 | -1.75 | 0.2 | | |
| 1.04 | 1.73 | 4.12 | | |
| -1.03 | -2.62 | -0.13 | | |
| -1.67 | -2.41 | 0.78 | | |
| 5.67 | 0.17 | -1.04 | | |
| 5.21 | 0.91 | -0.18 | | |
| 1.2 | 2.43 | 3.46 | | |
| 1.16 | 1.34 | 2.41 | | |
| 1.13 | 2.49 | 3.61 | | |
| -1.15 | -1.44 | 0.06 | | |
| -1.19 | 0.52 | 2.07 | | |
| -1.68 | 0.05 | 2.08 | | |
| -1.7 | -2.4 | -0.34 | | |
| -2.52 | -0.28 | 2.34 | | |
| 5.67 | 0.05 | -1.16 | | |
| 5.21 | 0.79 | -0.29 | | |
| 1.2 | 2.32 | 3.34 | | |
| 1.16 | 1.22 | 2.29 | | |
| 1.15 | 2.09 | 3.19 | | |
| 1.13 | 2.37 | 3.49 | | |
| -1.1 | 0.86 | 2.29 | | |
| -2.39 | -1.05 | 1.49 | | |
| 1.53 | -3.51 | -4.73 | | |
| 1.52 | -2.52 | -3.72 | | |
| 1.42 | -1.85 | -2.95 | | |
| 2.57 | -3.26 | -4.48 | | |
| -1.81 | -8 | -7 | | |
| -7.56 | -7.71 | -4.65 | | |
| 2.59 | 4.1 | 2.89 | | |
| -1.82 | -0.65 | 0.38 | | |
| -1.96 | -1.88 | -0.75 | | |
| -2.02 | -1.92 | -0.75 | | |
| -2.5 | -1.88 | -0.39 | | |
| -2.97 | -1.42 | 0.31 | | |
| 1.41 | -3.17 | -4.39 | | |
| -4.52 | -2.81 | -1.35 | | |
| -4.69 | -2 | -0.49 | | |
| 1.35 | -5.6 | -6.81 | | |
| 1.31 | -1.91 | -3.08 | | |
| -3.5 | -1.54 | -0.52 | | |
| 1.61 | 2.57 | 1.36 | | |
| 1.39 | 2.96 | 1.95 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.05 | 4.13 | 2.92 | | |
| -5.03 | -1.58 | -0.4 | | |
| -5.36 | 0.27 | 1.55 | | |
| -6.24 | 0.19 | 1.69 | | |
| -10.43 | -3.47 | -1.23 | | |
| 3.72 | -0.65 | -1.86 | | |
| -1.25 | -0.87 | 0.14 | | |
| 2.12 | -0.54 | -1.76 | | |
| 2 | 1.36 | 0.23 | | |
| 1.83 | 2.32 | 1.31 | | |
| 2.73 | 0 | -1.21 | | |
| 2.63 | 2.13 | 0.98 | | |
| 2.39 | 1.9 | 0.88 | | |
| -1.7 | -1.25 | -0.24 | | |
| -2.55 | -4.4 | -2.8 | | |
| 2.37 | 0.1 | -1.11 | | |
| 2.21 | 2.55 | 1.44 | | |
| -2.08 | 0.35 | 1.44 | | |
| -2.12 | 0.63 | 1.75 | | |
| -2.83 | -0.69 | 0.85 | | |
| -5.54 | -1.42 | 1.09 | | |
| 1.23 | -2.73 | -3.94 | | |
| 1.19 | 0.38 | -0.78 | | |
| 1.17 | -2.28 | -3.41 | | |
| 1.12 | -1.84 | -2.91 | | |
| 1.1 | -2.91 | -3.96 | | |
| 1.07 | -3.46 | -4.46 | | |
| 4.77 | 3.76 | 2.55 | | |
| 1.03 | -3.89 | -2.89 | | |
| 1.02 | -3.6 | -2.59 | | |
| -1 | -1.15 | -0.1 | | |
| -1.29 | -6.46 | -5.05 | | |
| -1.77 | -3.23 | -1.36 | | |
| 1.48 | 1.69 | 0.48 | | |
| 1.31 | -0.44 | -1.47 | | |
| -3.14 | 0.75 | 1.76 | | |
| -4.45 | -1.53 | -0.02 | | |
| 3.77 | 1.18 | -0.02 | | |
| -1.33 | -1.49 | -0.37 | | |
| -1.41 | 2.02 | 3.22 | | |
| -1.54 | -0.55 | 0.79 | | |
| -1.87 | 2.29 | 3.9 | | |
| -2.55 | 0.12 | 2.18 | | |
| -2.69 | 3.93 | 6.07 | | |
| 3.21 | 1.73 | 0.52 | | |
| 3.04 | 1.28 | 0.15 | | |
| -1.71 | -2.04 | -0.79 | | |
| 1.77 | 0.01 | -1.2 | | |
| 1.77 | -0.58 | -1.79 | | |
| -2.75 | -2.53 | -1.46 | | |
| -2.88 | -1.82 | -0.68 | | |
| -2.93 | -0.69 | 0.48 | | |
| -3.49 | -1.13 | 0.29 | | |
| -3.67 | -1.48 | 0.01 | | |
| 5.53 | -0.39 | -1.6 | | |
| 1.17 | 0.05 | 1.09 | | |
| 1.07 | 1.84 | 3 | | |
| -1 | 5.11 | 6.38 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.07 | 3.88 | 5.24 | | |
| -1.53 | -3.05 | -1.18 | | |
| -1.68 | 3.3 | 5.31 | | |
| 4.02 | -2.67 | -3.88 | | |
| -1.56 | -4.76 | -3.32 | | |
| -1.75 | -4.94 | -3.34 | | |
| 2.73 | 4.15 | 2.94 | | |
| -1.7 | 0.23 | 1.24 | | |
| -1.71 | -1.93 | -0.92 | | |
| -2.11 | -3.24 | -4.45 | | |
| -2.27 | -2.08 | -3.18 | | |
| 1.71 | 2.48 | 1.27 | | |
| 1.57 | -0.36 | -1.44 | | |
| -3.1 | -1.63 | -0.42 | | |
| 1.02 | 2.15 | 0.94 | | |
| -1.02 | 0.19 | -0.96 | | |
| -1.03 | 1.8 | 0.65 | | |
| -4.93 | -2.28 | -1.17 | | |
| -5.38 | -1.01 | 0.22 | | |
| -8.54 | -2.68 | -0.78 | | |
| 9.85 | -4.8 | -6.01 | | |
| 1.95 | -5.82 | -4.69 | | |
| 1.82 | 0.72 | 1.95 | | |
| -1.05 | 1.2 | 3.36 | | |
| -1.35 | -7.9 | -5.38 | | |
| 6.09 | 0.26 | -0.94 | | |
| 1.18 | -0.38 | 0.78 | | |
| 1.18 | 0.91 | 2.08 | | |
| 1.1 | -0.61 | 0.65 | | |
| 1.05 | 1.71 | 3.04 | | |
| -1.04 | 1.01 | 2.47 | | |
| -1.05 | 1.85 | 3.32 | | |
| -1.65 | -2.3 | -0.18 | | |
| 1.61 | -2.19 | -3.4 | | |
| 1.47 | -1.7 | -2.77 | | |
| 1.68 | -5.46 | -6.66 | | |
| 1.64 | -1.72 | -2.89 | | |
| -2.84 | -2.21 | -1.16 | | |
| -3 | -5.51 | -4.38 | | |
| -5.33 | -6.98 | -5.03 | | |
| 2.14 | -2.23 | -3.44 | | |
| -2.2 | -1.6 | -0.57 | | |
| -2.28 | -3.34 | -2.26 | | |
| -3.74 | -1.67 | 0.12 | | |
| 6.11 | -1.27 | -2.48 | | |
| 1.2 | 1.47 | 2.61 | | |
| -1.02 | -3.78 | -2.34 | | |
| -1.2 | 1.9 | 3.56 | | |
| -3.45 | -3.15 | 0.03 | | |
| 1.86 | 4.07 | 2.86 | | |
| 1.66 | -1.54 | -2.59 | | |
| -2.52 | -1.06 | -0.04 | | |
| -2.57 | -0.75 | 0.3 | | |
| -2.65 | -1.58 | -0.49 | | |
| -2.76 | -2.05 | -0.9 | | |
| -3.67 | 0.13 | 1.69 | | |
| 2.13 | 4.23 | 3.02 | | |
| 2.1 | 0.12 | -1.07 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.1 | 1.09 | -0.1 | | |
| -2.72 | -2.22 | -0.9 | | |
| 1.11 | 4.67 | 3.46 | | |
| 1.07 | -1.24 | -2.4 | | |
| 1.07 | -2.85 | -4 | | |
| 1.13 | -4.4 | -5.6 | | |
| -5.82 | -6.01 | -4.5 | | |
| 2.85 | 0.58 | -0.63 | | |
| 2.46 | 1.97 | 0.97 | | |
| -2.54 | -2.66 | -1.01 | | |
| 1.14 | 2.58 | 1.37 | | |
| 1.11 | 0.8 | -0.37 | | |
| -1 | 5.94 | 4.93 | | |
| -5.78 | -1.86 | -0.34 | | |
| 1.95 | -5.97 | -7.17 | | |
| -2.45 | -4.61 | -3.55 | | |
| 1.29 | 6.5 | 5.3 | | |
| -3.93 | 0.02 | 1.16 | | |
| -4.94 | -0.53 | 0.93 | | |
| 3.44 | -0.17 | -1.37 | | |
| -1.45 | 5.02 | 6.14 | | |
| 2.02 | -4.73 | -5.93 | | |
| 1.82 | -2.39 | -3.44 | | |
| 2.99 | -3.28 | -4.49 | | |
| 2.75 | -4.05 | -5.13 | | |
| -1.54 | 0.08 | 1.08 | | |
| -1.55 | -3.98 | -2.97 | | |
| -1.56 | -6.47 | -5.45 | | |
| -1.59 | -4.47 | -3.42 | | |
| -1.6 | -2.58 | -1.53 | | |
| -1.61 | -1.99 | -0.93 | | |
| -1.82 | -4.91 | -3.67 | | |
| 2.47 | -2.23 | -3.43 | | |
| 2.24 | -1.15 | -2.2 | | |
| -1.91 | -2.14 | -1.11 | | |
| -1.98 | -0.88 | 0.21 | | |
| -1.99 | -3.36 | -2.27 | | |
| -2.26 | -1.67 | -0.39 | | |
| -3.72 | -2.32 | -0.32 | | |
| 1.88 | 2.73 | 1.53 | | |
| 1.64 | 1.28 | 0.28 | | |
| -3.14 | -0.37 | 0.98 | | |
| 3.25 | -2.48 | -3.68 | | |
| 3.11 | -3.44 | -4.57 | | |
| -2.74 | -7.43 | -5.47 | | |
| 1.52 | -3.11 | -4.31 | | |
| 1.5 | -2.21 | -3.39 | | |
| 1.49 | -3.83 | -5 | | |
| 1.3 | 2.1 | 0.89 | | |
| 1.29 | -2.28 | -3.47 | | |
| 1.27 | 0.93 | -0.23 | | |
| 1.21 | -1.99 | -3.09 | | |
| 2.09 | -1.61 | -2.81 | | |
| -2.84 | -5.6 | -4.23 | | |
| 1.78 | -0.18 | -1.38 | | |
| 1.76 | 0.1 | -1.08 | | |
| -2.77 | -1.73 | -0.63 | | |
| 1.71 | 2.48 | 1.28 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.57 | -0.36 | -1.44 | | |
| -3.1 | -1.63 | -0.42 | | |
| 6.66 | -0.66 | -1.86 | | |
| 5.8 | 1 | -0.01 | | |
| 1.42 | -1.95 | -0.92 | | |
| 1.36 | -3.75 | -2.67 | | |
| 1.35 | -3.63 | -2.53 | | |
| 1.34 | -2.78 | -1.68 | | |
| 1.27 | -4.02 | -2.83 | | |
| 1.26 | 1.08 | 2.27 | | |
| 1.26 | -3.67 | -2.47 | | |
| 1.25 | -4.28 | -3.08 | | |
| 1.24 | -4.14 | -2.92 | | |
| 1.19 | 1.25 | 2.52 | | |
| 1.17 | -0.2 | 1.1 | | |
| 1.15 | -2.59 | -1.26 | | |
| 1.15 | -2.56 | -1.23 | | |
| 1.12 | -3.96 | -2.6 | | |
| 1.07 | 3.56 | 5 | | |
| 1.05 | -4.4 | -2.94 | | |
| 1.04 | -2.63 | -1.16 | | |
| 1.03 | -3.29 | -1.81 | | |
| 1.01 | 3.53 | 5.05 | | |
| -1.04 | 2.75 | 4.34 | | |
| -1.07 | -1.54 | 0.09 | | |
| -1.08 | 1.29 | 2.93 | | |
| -1.15 | -1.01 | 0.72 | | |
| -1.16 | -4.47 | -2.73 | | |
| -1.25 | -4.27 | -2.41 | | |
| -1.34 | -2.5 | -0.55 | | |
| -1.35 | -3.2 | -1.24 | | |
| -1.35 | -4.62 | -2.65 | | |
| -1.36 | -4.89 | -2.91 | | |
| -1.51 | -1.72 | 0.41 | | |
| -1.61 | -4.93 | -2.71 | | |
| -1.69 | -3.28 | -0.99 | | |
| 1.33 | -0.37 | -1.57 | | |
| -5.9 | -2.75 | -0.98 | | |
| 1.64 | -0.88 | -2.08 | | |
| 1.52 | 4.29 | 3.19 | | |
| 2.21 | 3.53 | 2.33 | | |
| 2.1 | -0.46 | -1.58 | | |
| -2.08 | -1.06 | -0.05 | | |
| -3.1 | -1.51 | 0.07 | | |
| 1.3 | -0.13 | -1.33 | | |
| 1.29 | -2.37 | -3.56 | | |
| 1.19 | 0.9 | -0.16 | | |
| 1.35 | -6.03 | -7.24 | | |
| 1.31 | -2.34 | -3.5 | | |
| 1.18 | -1.66 | -2.67 | | |
| 2.07 | -3.62 | -4.82 | | |
| 1.82 | -2.8 | -3.81 | | |
| -2.71 | -2.26 | -0.97 | | |
| 6.57 | -0.95 | -2.15 | | |
| 5.96 | -1.88 | -2.94 | | |
| 1.34 | -2.04 | -0.95 | | |
| 1.68 | 1.49 | 0.29 | | |
| 1.64 | 2.02 | 0.84 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.59 | 3.13 | 2.01 | | |
| 1.59 | -0.64 | -1.76 | | |
| 1.57 | 0.01 | -1.09 | | |
| 1.57 | 1.58 | 0.47 | | |
| -2.88 | -1.24 | -0.17 | | |
| -3.57 | -0.58 | 0.8 | | |
| 1.64 | -3.1 | -4.3 | | |
| 1.44 | -3.65 | -4.66 | | |
| 2.07 | 0.17 | -1.03 | | |
| -2.3 | -2.37 | -1.32 | | |
| 2.07 | 0.17 | -1.03 | | |
| -2.3 | -2.37 | -1.32 | | |
| 1.5 | -0.98 | -2.18 | | |
| 1.32 | -2.05 | -3.07 | | |
| 1.31 | -3.2 | -4.21 | | |
| 1.5 | -0.98 | -2.18 | | |
| 1.32 | -2.05 | -3.07 | | |
| 1.31 | -3.2 | -4.21 | | |
| 2.35 | 2.86 | 1.67 | | |
| 2.1 | 1.31 | 0.28 | | |
| 5.11 | -2.17 | -3.36 | | |
| -1.1 | -5.24 | -3.95 | | |
| 2.26 | 2.63 | 1.44 | | |
| 2.23 | 0.76 | -0.42 | | |
| 1.98 | 1.04 | 0.03 | | |
| -3.05 | -1.49 | 0.09 | | |
| -3.05 | -1.27 | 0.32 | | |
| 1.03 | -3.35 | -4.55 | | |
| 1.02 | -6.09 | -7.28 | | |
| -1.02 | -3.41 | -4.54 | | |
| -1.07 | -3.75 | -4.81 | | |
| -1.08 | -3.6 | -4.65 | | |
| 2.18 | -1.82 | -3.02 | | |
| -2.26 | -2.66 | -1.55 | | |
| -2.48 | -0.44 | 0.8 | | |
| 2.34 | 1.34 | 0.14 | | |
| 2.15 | -1.71 | -2.78 | | |
| -2.12 | -3.77 | -2.66 | | |
| -2.12 | -2.21 | -1.1 | | |
| -2.17 | -2.1 | -0.96 | | |
| -2.9 | -2.42 | -0.86 | | |
| 2.26 | -2.62 | -3.82 | | |
| 2.1 | -3.16 | -4.25 | | |
| -2.55 | 1.69 | 3.02 | | |
| -2.89 | -2.15 | -0.64 | | |
| 2.11 | -1.61 | -2.81 | | |
| 1.94 | 0.49 | -0.59 | | |
| 1.92 | -1.13 | -2.2 | | |
| 1.84 | -2.03 | -3.04 | | |
| -2.38 | -1.15 | -0.02 | | |
| -3.03 | -1.18 | 0.3 | | |
| -3.66 | -1.44 | 0.31 | | |
| 2.12 | 0.06 | -1.13 | | |
| 2 | 0.91 | -0.2 | | |
| 1.98 | 0.74 | -0.36 | | |
| 1.91 | -0.25 | -1.3 | | |
| -2.23 | -2.83 | -1.78 | | |
| -2.28 | -1.01 | 0.07 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.57 | -3.16 | -1.91 | | |
| -2.7 | -3.32 | -1.99 | | |
| -2.83 | -1.39 | 0 | | |
| -3.03 | -0.07 | 1.42 | | |
| -5.09 | -2.63 | -0.4 | | |
| -5.82 | -1.86 | 0.57 | | |
| -6.11 | -3.25 | -0.75 | | |
| -6.98 | -2.9 | -0.21 | | |
| 1.87 | -6.74 | -7.93 | | |
| -2.55 | -8.07 | -7.01 | | |
| -2.71 | -4.24 | -3.09 | | |
| -3.1 | -6.93 | -5.59 | | |
| -3.11 | -6.65 | -5.31 | | |
| -3.33 | -6.98 | -5.53 | | |
| -4.16 | -6.71 | -4.94 | | |
| 2.13 | -2.85 | -4.04 | | |
| 2.05 | -0.65 | -1.79 | | |
| -2.87 | -3.41 | -1.99 | | |
| -3.98 | -3.44 | -1.56 | | |
| 1.5 | -0.93 | -2.13 | | |
| 1.32 | -2.01 | -3.02 | | |
| 1.31 | -3.15 | -4.16 | | |
| 3.22 | -3.55 | -4.74 | | |
| 2.84 | -3.02 | -4.03 | | |
| -1.62 | -5.54 | -4.35 | | |
| -1.63 | -3.51 | -2.31 | | |
| -1.84 | -5.26 | -3.89 | | |
| 1.1 | 0.9 | -0.3 | | |
| -4.68 | -1.04 | 0.14 | | |
| -4.76 | -3.75 | -2.55 | | |
| -5.47 | -3.52 | -2.12 | | |
| -7.14 | -1.23 | 0.55 | | |
| -9.72 | -0.78 | 1.45 | | |
| -20.87 | -1.97 | 1.36 | | |
| -23.2 | -2.29 | 1.19 | | |
| -56.34 | -3.03 | 1.73 | | |
| 3.63 | 4.34 | 3.15 | | |
| -1.41 | -2.62 | -1.46 | | |
| -1.64 | -2.8 | -1.42 | | |
| -1.63 | -0.88 | 0.5 | | |
| 2.74 | 2.42 | 1.23 | | |
| -1.89 | -3.31 | -2.13 | | |
| -2.14 | -1.91 | -0.56 | | |
| 1.92 | 0.27 | -0.93 | | |
| -2.43 | 1.5 | 2.53 | | |
| -2.54 | -2.43 | -1.34 | | |
| -2.55 | 0.68 | 1.77 | | |
| -2.84 | 1.37 | 2.62 | | |
| -2.99 | -0.96 | 0.36 | | |
| -3.26 | -3 | -1.55 | | |
| -5.63 | -2.48 | -0.24 | | |
| 1.76 | -4.48 | -5.67 | | |
| 1.65 | -5.22 | -6.32 | | |
| 1.54 | -2.46 | -3.46 | | |
| -3.11 | -0.8 | 0.46 | | |
| 1.67 | -0.8 | -2 | | |
| 1.6 | -0.2 | -1.33 | | |
| 2.91 | -3.42 | -4.61 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.66 | -5.8 | -4.72 | | |
| 2.07 | 0.16 | -1.03 | | |
| -2.3 | -2.37 | -1.32 | | |
| 1.5 | -0.94 | -2.13 | | |
| 1.45 | -0.93 | -2.08 | | |
| 1.32 | -2.01 | -3.03 | | |
| 1.31 | -3.16 | -4.16 | | |
| 1.5 | -0.93 | -2.13 | | |
| 1.32 | -2.01 | -3.02 | | |
| 1.31 | -3.15 | -4.16 | | |
| 1.5 | -0.93 | -2.13 | | |
| 1.32 | -2.01 | -3.02 | | |
| 1.31 | -3.15 | -4.16 | | |
| 2.07 | 0.16 | -1.03 | | |
| -2.3 | -2.37 | -1.32 | | |
| 2.07 | 0.16 | -1.03 | | |
| -2.3 | -2.37 | -1.32 | | |
| 2.32 | 0.26 | -0.94 | | |
| 2.03 | -0.23 | -1.23 | | |
| 1.5 | -3.2 | -4.39 | | |
| 1.44 | -1.64 | -2.77 | | |
| 1.38 | -1.27 | -2.35 | | |
| 4.45 | -1.3 | -2.49 | | |
| 4.27 | 0.49 | -0.64 | | |
| -1.15 | -0.41 | 0.77 | | |
| -1.29 | -1.44 | -0.11 | | |
| 3.57 | -0.98 | -2.17 | | |
| 3.13 | -0.71 | -1.71 | | |
| -1.7 | -2.68 | -1.27 | | |
| 2 | -4.52 | -5.71 | | |
| 1.93 | -4.55 | -5.69 | | |
| 1.92 | -2.05 | -3.19 | | |
| 3.82 | -3.37 | -4.56 | | |
| -1.22 | -4.65 | -3.62 | | |
| -1.89 | -2.67 | -1 | | |
| 2.48 | 2.12 | 0.93 | | |
| 2.23 | -0.06 | -1.1 | | |
| 1.88 | 1.92 | 0.73 | | |
| -2.57 | -1.47 | -0.38 | | |
| -2.57 | -3.16 | -2.07 | | |
| -2.93 | -1.12 | 0.16 | | |
| -2.95 | -2.28 | -1 | | |
| -3.95 | -2.65 | -0.95 | | |
| -5.65 | -2.65 | -0.42 | | |
| 1.77 | 2.24 | 1.05 | | |
| 1.62 | 2.17 | 1.11 | | |
| 2.06 | -2.2 | -3.39 | | |
| -2.51 | 1.38 | 2.56 | | |
| -4.19 | 0.76 | 2.68 | | |
| 2.28 | -0.27 | -1.46 | | |
| -2.13 | -1.27 | -0.18 | | |
| 1.36 | -5.19 | -6.39 | | |
| 1.27 | 1.18 | 0.09 | | |
| -4.19 | -5.51 | -4.19 | | |
| -5.41 | -4.45 | -2.77 | | |
| 1.46 | -4.53 | -5.72 | | |
| 1.3 | -3.27 | -4.29 | | |
| 1.34 | 0.88 | -0.31 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.27 | -1.16 | -2.27 | | |
| 1.2 | 2.91 | 1.88 | | |
| -3.58 | -2.04 | -0.96 | | |
| -3.67 | -2.04 | -0.93 | | |
| 4.73 | -0.95 | -2.14 | | |
| 1.01 | -4.63 | -3.58 | | |
| -1.19 | 2.17 | 3.47 | | |
| -1.31 | 2.55 | 4 | | |
| 1.19 | 0.46 | -0.73 | | |
| 1.14 | -4.19 | -5.33 | | |
| 1.37 | 0.38 | -0.81 | | |
| 1.21 | -2.72 | -3.74 | | |
| -3.58 | -4.22 | -3.12 | | |
| -3.71 | -3.06 | -1.91 | | |
| -5.63 | -3.61 | -1.86 | | |
| 2.51 | 2.41 | 1.22 | | |
| -2.13 | 2.67 | 3.9 | | |
| 1.24 | -3.19 | -4.39 | | |
| -4.18 | -2.6 | -1.42 | | |
| -4.21 | -1.56 | -0.37 | | |
| -4.48 | -2.01 | -0.73 | | |
| -5.73 | -2.62 | -0.98 | | |
| 1.57 | 2.85 | 1.67 | | |
| 1.46 | 0.94 | -0.14 | | |
| -3.21 | -2.39 | -1.25 | | |
| 1.11 | 6.13 | 4.94 | | |
| -4.23 | 0.11 | 1.16 | | |
| -4.55 | -1.13 | 0.03 | | |
| -5.73 | -1.53 | -0.05 | | |
| 3.45 | 1.32 | 0.13 | | |
| 3.15 | 0.14 | -0.91 | | |
| -1.61 | -1.1 | 0.19 | | |
| -1.71 | 2.34 | 3.72 | | |
| -2.25 | -0.36 | 1.4 | | |
| -3.41 | -1.22 | 1.15 | | |
| 5.33 | -0.42 | -1.61 | | |
| 1.12 | -4.06 | -3.01 | | |
| -1.12 | -3.89 | -2.5 | | |
| 1.24 | 3.16 | 1.97 | | |
| 1.18 | -1.42 | -2.54 | | |
| 2.16 | 2.11 | 0.91 | | |
| 1.9 | 1.78 | 0.78 | | |
| 6.72 | 1.33 | 0.15 | | |
| 6.43 | -1.12 | -2.23 | | |
| 1.05 | 0.07 | 1.56 | | |
| 1 | 0.66 | 2.23 | | |
| -1 | -2.5 | -0.92 | | |
| -1.13 | 0.33 | 2.07 | | |
| -1.88 | -3.64 | -1.15 | | |
| 4.69 | 1.68 | 0.5 | | |
| 4.64 | 2.93 | 1.76 | | |
| 4.55 | 0.98 | -0.16 | | |
| 4.36 | 0.69 | -0.39 | | |
| 4.21 | 2.47 | 1.44 | | |
| 4.18 | 0.84 | -0.18 | | |
| 1.01 | 1.94 | 2.96 | | |
| -1.1 | 3.28 | 4.46 | | |
| -1.12 | -1.95 | -0.74 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.13 | 1.07 | 2.29 | | |
| -1.14 | -0.18 | 1.06 | | |
| -1.16 | -0.96 | 0.29 | | |
| 3 | -1.21 | -2.39 | | |
| -1.87 | -2.91 | -1.6 | | |
| 2.22 | 0.53 | -0.65 | | |
| -2.3 | -2.68 | -1.51 | | |
| 1.46 | -2.54 | -3.72 | | |
| 1.39 | -4.43 | -5.54 | | |
| 1.37 | -4.92 | -6.01 | | |
| -3.11 | -1.9 | -0.9 | | |
| -4.08 | -5.38 | -3.99 | | |
| 2.46 | -2.2 | -3.38 | | |
| 2.29 | 4.3 | 3.22 | | |
| 2.25 | -0.97 | -2.02 | | |
| 2.22 | -2.98 | -4.16 | | |
| 2.17 | -6.36 | -7.51 | | |
| 4.3 | 1.59 | 0.41 | | |
| 4.16 | -0.58 | -1.71 | | |
| -1.26 | -2.98 | -1.72 | | |
| -1.29 | -0.58 | 0.7 | | |
| -1.42 | -4.53 | -3.1 | | |
| 3 | 1.85 | 0.67 | | |
| 2.7 | 1.54 | 0.52 | | |
| 2.15 | 4.56 | 3.37 | | |
| 1.91 | -1.53 | -2.55 | | |
| 1.35 | 2.3 | 1.12 | | |
| -3.54 | -0.72 | 0.35 | | |
| -3.75 | -3.57 | -2.41 | | |
| 2.67 | 1.44 | 0.26 | | |
| -1.93 | -1.22 | -0.04 | | |
| -2.5 | -2.09 | -0.53 | | |
| -2.6 | -3.59 | -1.98 | | |
| -4.34 | -1.99 | 0.36 | | |
| 2.02 | -1.03 | -2.22 | | |
| 1.85 | -3.74 | -4.8 | | |
| 1.35 | 1.84 | 0.66 | | |
| 1.34 | -1.48 | -2.65 | | |
| 1.64 | -1.55 | -2.73 | | |
| -4.23 | -1.82 | -0.21 | | |
| 2.19 | 2.5 | 1.32 | | |
| -2.35 | -3.08 | -1.9 | | |
| 1.85 | 2.6 | 1.41 | | |
| -2.66 | -1.94 | -0.83 | | |
| 1.41 | -6.24 | -7.42 | | |
| 1.39 | -4.95 | -6.1 | | |
| 1.56 | -0.5 | -1.68 | | |
| 1.38 | -1.99 | -2.99 | | |
| -3.17 | -2.48 | -1.36 | | |
| 1.5 | -0.94 | -2.13 | | |
| 1.32 | -2.02 | -3.02 | | |
| 1.82 | -2.81 | -3.99 | | |
| 1.73 | -2.26 | -3.37 | | |
| 1.6 | -2.73 | -3.73 | | |
| 1.34 | 1.47 | 0.29 | | |
| 1.3 | 0.9 | -0.24 | | |
| -4.18 | -0.73 | 0.57 | | |
| -22.42 | -2.86 | 0.87 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1 | 0.54 | -0.64 | | |
| -1.01 | -3.85 | -5.01 | | |
| -1.05 | -1.77 | -2.88 | | |
| -1.07 | 1.72 | 0.64 | | |
| -1.08 | -4.09 | -5.16 | | |
| -1.09 | 1 | -0.06 | | |
| -4.52 | 0.77 | 1.77 | | |
| -5.23 | 0.19 | 1.4 | | |
| -5.89 | 1.54 | 2.92 | | |
| -5.9 | -1.08 | 0.3 | | |
| -7.45 | 0.67 | 2.39 | | |
| 2.61 | -1.29 | -2.46 | | |
| 2.34 | -2.62 | -3.64 | | |
| -2.23 | -2.88 | -1.51 | | |
| 3.5 | -2.09 | -3.27 | | |
| 3.3 | 1.08 | -0.01 | | |
| -1.39 | 1.22 | 2.33 | | |
| -1.4 | -2.83 | -1.72 | | |
| -1.41 | 0.43 | 1.56 | | |
| -1.41 | -2.21 | -1.08 | | |
| -1.45 | -0.08 | 1.09 | | |
| 1.78 | 0.98 | -0.2 | | |
| -2.58 | -1.13 | -0.11 | | |
| 2.21 | -1.88 | -3.06 | | |
| -2.19 | -3.83 | -2.73 | | |
| -2.27 | -3.45 | -2.3 | | |
| 1.57 | 3.29 | 2.11 | | |
| 1.55 | -0.24 | -1.4 | | |
| -2.9 | -1.52 | -0.51 | | |
| 1.23 | -1.21 | -2.38 | | |
| 1.24 | 5.08 | 3.9 | | |
| 1.2 | 2.28 | 1.15 | | |
| -4.08 | -0.38 | 0.77 | | |
| 3.28 | 0.09 | -1.08 | | |
| -1.38 | -1.15 | -0.14 | | |
| -1.38 | -1.84 | -0.83 | | |
| -1.39 | -1.17 | -0.16 | | |
| -1.42 | -0.86 | 0.19 | | |
| -1.46 | 0.64 | 1.73 | | |
| -1.57 | -0.04 | 1.16 | | |
| -1.79 | 0.52 | 1.89 | | |
| 1.58 | -2.99 | -4.17 | | |
| 1.45 | 0.71 | -0.34 | | |
| 2.5 | -1.37 | -2.54 | | |
| -1.93 | -4.04 | -2.94 | | |
| 2.32 | 1.15 | -0.03 | | |
| 2.2 | -2.07 | -3.17 | | |
| -2.34 | -3.31 | -2.05 | | |
| 1.78 | 4.02 | 2.84 | | |
| -3.08 | -4.01 | -2.72 | | |
| 1.98 | -3.54 | -4.72 | | |
| -2.51 | -5 | -3.87 | | |
| 3.98 | -4.28 | -5.46 | | |
| -1.4 | -5.01 | -3.71 | | |
| -1.61 | -7.08 | -5.57 | | |
| -1.97 | -7.17 | -5.37 | | |
| 4.75 | -0.95 | -2.12 | | |
| 1.02 | 1.46 | 2.5 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.09 | 0.94 | 2.12 | | |
| -1.53 | -3.5 | -1.82 | | |
| 1.18 | 0.96 | -0.22 | | |
| 1.05 | 0.98 | -0.03 | | |
| 1.23 | -1.6 | -2.78 | | |
| 1.22 | 0.75 | -0.42 | | |
| 1.21 | 2.72 | 1.56 | | |
| 2.99 | 1.4 | 0.22 | | |
| -2.57 | -1.53 | 0.23 | | |
| 1.27 | -3.25 | -4.43 | | |
| 1.26 | 2.61 | 1.44 | | |
| -4.2 | -1.35 | -0.12 | | |
| 28.7 | 0.5 | -0.68 | | |
| 2.3 | 3.68 | 6.14 | | |
| 1.74 | 3.68 | 6.55 | | |
| 1.19 | -2.02 | 1.39 | | |
| 1.16 | -0.77 | -1.95 | | |
| 1.11 | -0.64 | -1.75 | | |
| 1.06 | 2.59 | 1.55 | | |
| 1.61 | 1.81 | 0.63 | | |
| 1.5 | -0.34 | -1.41 | | |
| -3.1 | -0.87 | 0.28 | | |
| -4.19 | -2.27 | -0.69 | | |
| 1.72 | 3.04 | 1.86 | | |
| -4.28 | -2.44 | -0.73 | | |
| 1.75 | -2.07 | -3.25 | | |
| 1.71 | -4.97 | -6.12 | | |
| 1.59 | -2.08 | -3.12 | | |
| -2.65 | -1.03 | 0.01 | | |
| 2.43 | 0.28 | -0.9 | | |
| -1.91 | -4.65 | -3.61 | | |
| -2.36 | -1.91 | -0.56 | | |
| -2.48 | -3.17 | -1.75 | | |
| 1.58 | -2.99 | -4.17 | | |
| 1.45 | 0.71 | -0.34 | | |
| 1.58 | -2.99 | -4.17 | | |
| 1.45 | 0.71 | -0.34 | | |
| 1.56 | -0.5 | -1.67 | | |
| -3.17 | -2.48 | -1.35 | | |
| 1.56 | -0.5 | -1.67 | | |
| -3.17 | -2.48 | -1.35 | | |
| 1.56 | -0.5 | -1.67 | | |
| -3.17 | -2.48 | -1.35 | | |
| 1.58 | -2.99 | -4.17 | | |
| 1.45 | 0.71 | -0.34 | | |
| -2.86 | -4.12 | -3.12 | | |
| 2.62 | 0.65 | -0.52 | | |
| -1.76 | -2.28 | -1.24 | | |
| 2.04 | 3.11 | 1.94 | | |
| -2.33 | -1.69 | -0.62 | | |
| 2.59 | -3.32 | -4.49 | | |
| 2.44 | -2.52 | -3.6 | | |
| -1.83 | -3.75 | -2.68 | | |
| -1.87 | -5.44 | -4.33 | | |
| -1.89 | -5.71 | -4.59 | | |
| -3.08 | -5.14 | -3.31 | | |
| 2.59 | -3.32 | -4.49 | | |
| 2.44 | -2.52 | -3.6 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.83 | -3.75 | -2.68 | | |
| -1.87 | -5.44 | -4.33 | | |
| -1.89 | -5.71 | -4.59 | | |
| -2.47 | -6.94 | -5.43 | | |
| 2.5 | -1.04 | -2.21 | | |
| 2.26 | 1.11 | 0.08 | | |
| -2.05 | -1.58 | -0.39 | | |
| 2.58 | 2.34 | 1.17 | | |
| -1.96 | -0.87 | 0.3 | | |
| 5.87 | -4.18 | -5.35 | | |
| 5.39 | 1.31 | 0.26 | | |
| 1.29 | -2.32 | -1.3 | | |
| 1.26 | -0.95 | 0.1 | | |
| 1.23 | -3.38 | -2.29 | | |
| 1.21 | -6.05 | -4.94 | | |
| 1.15 | -3.81 | -2.63 | | |
| 1.15 | -2.84 | -1.66 | | |
| 1.14 | -4.44 | -3.24 | | |
| -1.16 | -5.88 | -4.28 | | |
| 2.16 | 1.51 | 0.35 | | |
| 2.03 | 0.21 | -0.87 | | |
| 1.61 | -1.36 | -2.54 | | |
| -4.11 | -4.88 | -3.33 | | |
| 1.85 | 0.96 | -0.21 | | |
| 1.8 | -0.82 | -1.96 | | |
| -2.55 | 1.23 | 2.29 | | |
| -3.92 | -1.67 | 0.01 | | |
| 1.21 | -1.15 | -2.32 | | |
| 1.17 | -0.61 | -1.74 | | |
| 1.16 | 1.54 | 0.43 | | |
| 1.12 | -1.57 | -2.63 | | |
| 1.09 | 0.48 | -0.54 | | |
| -4.55 | -0.36 | 0.93 | | |
| 2.09 | -1 | -2.17 | | |
| 2.02 | 2.62 | 1.49 | | |
| -2.88 | -1.55 | -0.13 | | |
| 1.44 | 3.73 | 2.56 | | |
| -3.75 | -1.43 | -0.16 | | |
| 5.67 | -0.03 | -1.2 | | |
| 5.21 | 0.71 | -0.34 | | |
| 1.2 | 2.23 | 3.3 | | |
| 1.16 | 1.14 | 2.25 | | |
| 1.13 | 2.29 | 3.45 | | |
| -1.1 | 0.78 | 2.25 | | |
| -1.7 | -2.6 | -0.5 | | |
| -2.39 | -1.14 | 1.45 | | |
| 1.86 | -1.72 | -2.89 | | |
| -2.9 | -0.8 | 0.46 | | |
| 1.42 | 0.8 | -0.37 | | |
| 1.27 | 2.78 | 1.78 | | |
| 1.41 | 0.15 | -1.02 | | |
| 1.37 | 2.34 | 1.22 | | |
| 4.4 | -0.88 | -2.05 | | |
| 4.35 | 0.98 | -0.17 | | |
| 4.26 | 0.8 | -0.32 | | |
| -1.05 | -2.34 | -1.29 | | |
| -1.07 | -0.07 | 1 | | |
| 2.12 | 1.61 | 0.44 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.04 | -0.95 | -2.07 | | |
| 1.56 | -0.49 | -1.66 | | |
| -3.17 | -2.47 | -1.34 | | |
| 1.7 | -0.11 | -1.27 | | |
| 1.54 | 1.4 | 0.39 | | |
| 2.25 | -1.11 | -2.27 | | |
| -2.05 | -4.01 | -2.97 | | |
| -2.56 | -2.51 | -1.15 | | |
| 3.1 | -4.47 | -5.63 | | |
| -1.49 | 0.04 | 1.09 | | |
| -1.51 | -1.83 | -0.77 | | |
| -1.51 | -2.69 | -1.62 | | |
| -1.9 | -5.8 | -4.41 | | |
| -2.17 | -5.78 | -4.19 | | |
| 12.29 | 1.2 | 0.04 | | |
| 11.99 | 1.85 | 0.72 | | |
| 11.55 | 0.7 | -0.37 | | |
| 1.58 | -4.42 | -2.62 | | |
| 1.52 | -5.21 | -3.36 | | |
| 1.04 | -2.21 | 0.2 | | |
| -1.36 | -4.7 | -1.79 | | |
| 2.09 | -6.2 | -7.37 | | |
| -2.14 | -8.38 | -7.38 | | |
| -2.35 | -9.3 | -8.16 | | |
| 5.12 | -0.88 | -2.04 | | |
| 1.12 | 0.77 | 1.8 | | |
| 1.1 | -2.75 | -1.7 | | |
| 1.09 | -2.65 | -1.58 | | |
| -1.01 | -0.96 | 0.25 | | |
| -1.04 | -3.65 | -2.39 | | |
| -1.81 | -6.02 | -3.97 | | |
| 2.06 | -3.82 | -4.99 | | |
| -2.2 | -3.57 | -2.55 | | |
| -4.6 | -4.48 | -2.39 | | |
| 2.58 | -0.09 | -1.25 | | |
| -1.73 | 1.02 | 2.01 | | |
| -1.88 | -3.87 | -2.75 | | |
| -2.01 | -2.36 | -1.14 | | |
| 13.3 | 0.28 | -0.88 | | |
| 2.2 | -1.25 | 0.19 | | |
| 2.02 | -0.35 | 1.2 | | |
| 1.33 | -4.11 | -1.95 | | |
| 2.13 | 1.81 | 0.65 | | |
| 2.13 | 3.62 | 2.46 | | |
| -2.2 | -2.99 | -1.92 | | |
| 1.97 | 0.23 | -0.94 | | |
| 1.91 | 0.15 | -0.97 | | |
| -2.29 | -2.91 | -1.9 | | |
| 1.56 | -1.16 | -2.32 | | |
| -5.43 | -3.53 | -1.61 | | |
| 2.34 | -1.65 | -2.82 | | |
| 2.13 | -1.96 | -2.98 | | |
| -2 | -3.64 | -2.58 | | |
| 1.55 | 0.29 | -0.87 | | |
| 1.51 | 0.18 | -0.95 | | |
| 2 | -6.51 | -7.67 | | |
| 1.79 | -6.08 | -7.09 | | |
| -2.43 | -8.86 | -7.75 | | |

| | | | | |
|-------|-------|-------|--|--|
| 3.19 | -2.36 | -3.52 | | |
| -1.44 | -0.38 | 0.65 | | |
| -1.48 | 0.92 | 1.99 | | |
| 1.47 | 1.54 | 0.38 | | |
| 1.39 | -3.72 | -4.8 | | |
| 2.18 | 2.91 | 1.74 | | |
| 1.96 | 0.15 | -0.86 | | |
| -2.94 | -2.36 | -0.85 | | |
| 2.02 | -2.19 | -3.35 | | |
| 1.86 | -2.44 | -3.49 | | |
| 2.67 | -1.04 | -2.2 | | |
| -1.68 | -2.07 | -1.06 | | |
| 2.28 | 1.3 | 0.14 | | |
| -3.25 | -4.01 | -2.28 | | |
| 2.06 | -6.17 | -7.33 | | |
| -2.55 | -4.95 | -3.72 | | |
| 2.41 | 1.7 | 0.54 | | |
| -2.09 | -0.87 | 0.32 | | |
| 1.37 | -2.06 | -3.21 | | |
| 1.29 | -0.6 | -1.67 | | |
| -3.35 | -3.89 | -2.85 | | |
| -4.11 | -1.96 | -0.62 | | |
| -4.3 | -1.56 | -0.16 | | |
| 3.79 | 1.93 | 0.77 | | |
| -1.34 | -3.78 | -2.59 | | |
| 1.52 | -3.24 | -4.39 | | |
| 1.41 | 1.24 | 0.19 | | |
| 1.38 | 1.01 | -0.01 | | |
| -3.27 | -1.8 | -0.64 | | |
| -3.58 | -2.36 | -1.07 | | |
| 2.59 | -2.61 | -3.76 | | |
| 2.41 | 0.39 | -0.66 | | |
| -1.78 | -2.18 | -1.13 | | |
| -1.82 | -3.51 | -2.43 | | |
| -3.09 | -3.83 | -1.99 | | |
| 1.64 | 1.98 | 0.82 | | |
| 1.53 | 2.06 | 1 | | |
| 1.51 | -0.68 | -1.72 | | |
| -2.92 | -1.84 | -0.74 | | |
| 2.7 | 2.55 | 1.39 | | |
| -2.11 | -0.35 | 1 | | |
| -2.27 | -0.43 | 1.02 | | |
| -2.27 | -0.43 | 1.02 | | |
| 7.8 | 0.62 | -0.54 | | |
| 1.74 | -3.9 | -2.89 | | |
| 1.44 | -1.88 | -0.6 | | |
| 1.28 | -0.03 | 1.43 | | |
| 1.18 | 1.18 | 2.75 | | |
| 1.16 | -2.86 | -1.26 | | |
| 1.5 | 0.57 | -0.58 | | |
| -4.67 | 0.09 | 1.73 | | |
| 2.66 | 0.03 | -1.13 | | |
| 2.59 | -0.28 | -1.41 | | |
| 2.42 | -1.78 | -2.94 | | |
| -1.87 | -4.41 | -3.39 | | |
| -2.07 | -2.36 | -1.19 | | |
| -2.91 | -2.65 | -0.99 | | |
| 1.72 | 6.92 | 5.76 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.55 | 0.94 | -0.05 | | |
| 3.97 | 0.03 | -1.13 | | |
| -1.17 | -0.89 | 0.17 | | |
| -1.77 | -2.27 | -0.62 | | |
| -1.78 | -1.66 | 0 | | |
| 1.44 | -0.21 | -1.36 | | |
| 1.43 | 1 | -0.15 | | |
| 1.39 | -0.98 | -2.08 | | |
| -3.1 | -1.78 | -0.77 | | |
| -4.51 | -3.54 | -1.99 | | |
| -6.38 | -2.22 | -0.17 | | |
| 1.2 | 1.03 | -0.13 | | |
| 1.15 | -0.39 | -1.49 | | |
| 2.51 | 3.53 | 2.37 | | |
| -2.05 | 0.28 | 1.48 | | |
| 1.58 | -3.01 | -4.17 | | |
| 1.45 | 0.69 | -0.35 | | |
| 1.73 | 2.68 | 1.52 | | |
| 1.54 | -0.94 | -1.94 | | |
| -3.74 | -2.71 | -1.18 | | |
| 3.48 | 2.73 | 1.58 | | |
| 3.33 | 3.66 | 2.57 | | |
| 3.23 | 4.59 | 3.55 | | |
| 7.52 | -3.02 | -4.18 | | |
| 1.67 | -4.05 | -3.04 | | |
| 1.63 | -5.27 | -4.21 | | |
| 1.52 | -6.18 | -5.02 | | |
| 1.45 | -2.28 | -1.06 | | |
| 1.37 | -1.02 | 0.29 | | |
| 1.26 | -2.53 | -1.11 | | |
| 1.26 | 0.42 | 1.84 | | |
| 1.17 | -5.57 | -4.04 | | |
| 1.06 | -5.59 | -3.92 | | |
| 1.03 | -3.5 | -1.78 | | |
| 1.01 | -7 | -5.26 | | |
| -1.07 | -4.22 | -2.37 | | |
| -1.12 | -3.28 | -1.36 | | |
| -1.15 | -5.83 | -3.87 | | |
| -1.16 | -3.83 | -1.86 | | |
| -1.21 | -3.04 | -1.01 | | |
| 1.82 | -0.33 | -1.49 | | |
| 1.66 | -1.98 | -3 | | |
| 1.63 | -1.07 | -2.07 | | |
| 1.31 | -1.75 | -2.9 | | |
| 1.23 | -4.95 | -6.01 | | |
| 1.19 | -4.25 | -5.26 | | |
| -4.79 | -5.08 | -3.58 | | |
| 6.85 | -4.28 | -5.43 | | |
| 1.53 | -2.45 | -1.43 | | |
| 1.52 | -3.34 | -2.32 | | |
| 1.21 | -3.96 | -2.6 | | |
| 1.35 | 3.78 | 2.63 | | |
| -4.34 | -4.66 | -3.27 | | |
| 2.21 | 2.3 | 1.15 | | |
| -3.57 | -4.25 | -2.41 | | |
| 1.72 | -5.93 | -7.08 | | |
| -3.83 | -2.82 | -1.25 | | |
| 1.46 | -3.96 | -5.11 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.43 | -3.39 | -4.51 | | |
| 1.34 | -3.78 | -4.81 | | |
| 1.87 | -0.04 | -1.19 | | |
| -2.69 | -2.41 | -1.22 | | |
| -3.59 | -0.72 | 0.87 | | |
| 1.71 | -0.12 | -1.27 | | |
| -2.6 | -2.71 | -1.71 | | |
| -4.31 | -2.47 | -0.74 | | |
| -6.05 | -1.11 | 1.11 | | |
| 1.42 | 0.16 | -0.99 | | |
| 1.3 | 0.89 | -0.13 | | |
| -3.49 | -1.11 | 0.05 | | |
| -3.77 | -0.87 | 0.4 | | |
| 2.07 | -1.2 | -2.36 | | |
| -2.21 | -2.08 | -1.04 | | |
| 2.6 | 1.59 | 0.43 | | |
| 2.38 | 3.05 | 2.03 | | |
| -1.78 | -1.91 | -0.85 | | |
| -2.01 | -0.97 | 0.27 | | |
| 3.83 | -0.15 | -1.31 | | |
| -1.21 | -1.15 | -0.08 | | |
| 2.52 | 0.73 | -0.43 | | |
| -1.84 | -1.41 | -0.34 | | |
| 1.45 | -3.89 | -5.04 | | |
| 1.41 | -4.24 | -5.35 | | |
| 1.4 | 0.68 | -0.42 | | |
| -3.64 | 0.1 | 1.35 | | |
| 1.56 | -0.47 | -1.62 | | |
| -3.17 | -2.46 | -1.3 | | |
| 1.62 | 0.86 | -0.29 | | |
| 1.46 | -0.77 | -1.77 | | |
| -3.47 | -4.13 | -2.79 | | |
| 2.06 | -0.35 | -1.49 | | |
| 1.91 | -2.5 | -3.53 | | |
| 1.88 | -2.56 | -3.57 | | |
| -2.15 | -3.41 | -2.4 | | |
| 1.85 | -6.15 | -7.29 | | |
| -2.55 | -2.74 | -1.65 | | |
| 1.86 | 0.51 | -0.63 | | |
| 1.77 | -3.17 | -4.24 | | |
| 1.11 | 1.31 | 0.17 | | |
| 1.07 | 5.46 | 4.36 | | |
| 1.05 | 0.16 | -0.9 | | |
| -4.5 | -0.13 | 1.04 | | |
| 1.42 | 0.6 | -0.55 | | |
| 1.41 | 0.76 | -0.38 | | |
| 1.53 | 2.34 | 1.2 | | |
| 1.41 | -2.5 | -3.52 | | |
| -3.15 | -2.59 | -1.46 | | |
| 1.17 | 1.41 | 0.26 | | |
| 1.07 | 0.08 | -0.94 | | |
| -4.25 | 0.03 | 1.19 | | |
| -4.33 | 0.49 | 1.68 | | |
| -4.37 | -1.22 | -0.02 | | |
| -4.66 | -1.87 | -0.58 | | |
| -4.95 | 1.48 | 2.86 | | |
| -5.22 | -3.87 | -2.41 | | |
| -45.57 | -2.85 | 1.73 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.17 | -1.58 | -2.73 | | |
| 2.15 | 1.71 | 0.58 | | |
| 2.12 | -0.11 | -1.22 | | |
| 2 | 1.06 | 0.04 | | |
| -2.19 | -1.9 | -0.8 | | |
| -4.48 | -2.57 | -0.43 | | |
| 2.98 | 0.29 | -0.86 | | |
| -1.76 | 1.14 | 2.38 | | |
| -1.79 | 0.31 | 1.58 | | |
| 1.72 | 0.34 | -0.81 | | |
| 1.61 | -2.78 | -3.83 | | |
| 1.58 | -3.25 | -4.27 | | |
| 5.39 | -1.1 | -2.25 | | |
| 1.08 | -4.32 | -3.15 | | |
| -1.11 | 5.03 | 6.47 | | |
| -1.13 | 5.92 | 7.38 | | |
| -1.22 | -1.25 | 0.31 | | |
| -1.56 | 3.2 | 5.12 | | |
| 17.41 | -1.85 | -2.99 | | |
| 2.27 | -4.87 | -3.07 | | |
| 1.99 | -1.33 | 0.66 | | |
| 1.92 | -1.48 | 0.56 | | |
| 1.77 | -4.42 | -2.27 | | |
| 1.41 | -1.36 | 1.12 | | |
| -1.08 | -6.28 | -3.19 | | |
| 8.91 | -3.67 | -4.81 | | |
| 1.88 | -5.52 | -4.42 | | |
| 1.68 | -5.36 | -4.1 | | |
| 1.63 | -4.59 | -3.29 | | |
| 1.57 | -4.37 | -3.01 | | |
| 1.25 | -5.4 | -3.71 | | |
| 1.23 | -1.38 | 0.34 | | |
| 1.05 | -5.18 | -3.24 | | |
| 1 | -6.18 | -4.17 | | |
| -1.18 | -1.21 | 1.04 | | |
| -1.53 | -5.73 | -3.11 | | |
| 1.18 | -2.11 | -3.25 | | |
| 1.14 | -0.38 | -1.47 | | |
| 1.11 | -3.15 | -4.2 | | |
| 1.11 | 2.04 | 0.98 | | |
| -3.95 | -3.1 | -2.02 | | |
| 1.56 | -0.32 | -1.46 | | |
| -2.93 | -3.14 | -2.09 | | |
| 1.54 | 2.7 | 1.56 | | |
| -2.97 | -3.14 | -2.09 | | |
| -3.36 | -2.61 | -1.39 | | |
| -3.37 | -0.8 | 0.44 | | |
| -3.45 | -1.1 | 0.17 | | |
| -3.64 | -2.1 | -0.76 | | |
| -6.08 | -3.88 | -1.79 | | |
| -8.2 | -2.9 | -0.39 | | |
| 2.06 | -1.94 | -3.08 | | |
| -3.21 | -2.1 | -0.52 | | |
| -5.46 | -2.04 | 0.3 | | |
| -9.77 | -3.34 | -0.15 | | |
| 1.87 | -2.1 | -3.24 | | |
| -2.39 | -0.31 | 0.7 | | |
| 1.41 | -0.76 | -1.9 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.32 | -0.52 | -1.58 | | |
| -3.16 | 0.65 | 1.66 | | |
| -3.75 | -0.76 | 0.49 | | |
| 3.39 | -3.35 | -4.49 | | |
| -1.32 | -3.78 | -2.76 | | |
| -1.33 | -3.34 | -2.31 | | |
| -1.33 | -5.16 | -4.12 | | |
| -1.38 | -6.36 | -5.27 | | |
| -1.39 | -4.51 | -3.41 | | |
| -1.48 | -5.44 | -4.25 | | |
| -1.5 | -4.12 | -2.92 | | |
| -1.55 | -6.51 | -5.26 | | |
| -1.73 | -6.59 | -5.18 | | |
| -2.98 | -2.15 | 0.04 | | |
| 1.75 | -0.23 | -1.37 | | |
| 1.71 | 0.57 | -0.53 | | |
| -3.31 | -2.14 | -0.75 | | |
| 2.08 | 0 | -1.14 | | |
| -4.47 | -3.15 | -1.07 | | |
| 2.29 | 1.82 | 0.68 | | |
| -1.96 | -0.48 | 0.54 | | |
| -2.17 | -0.37 | 0.8 | | |
| 1.79 | 0.35 | -0.79 | | |
| 1.74 | -0.4 | -1.5 | | |
| 1.31 | -6.07 | -7.21 | | |
| 1.23 | -4.43 | -5.48 | | |
| 1.23 | -3.09 | -4.14 | | |
| 1.2 | -6.83 | -7.84 | | |
| 1.6 | 1.51 | 0.37 | | |
| -3.95 | -3.85 | -2.33 | | |
| 1.77 | -5.93 | -7.07 | | |
| 1.61 | -4.75 | -5.76 | | |
| 1.6 | -4.38 | -5.38 | | |
| -3.32 | -6.45 | -5.04 | | |
| 1.7 | -1.65 | -2.78 | | |
| -2.89 | -3.55 | -2.39 | | |
| 1.91 | -2.85 | -3.99 | | |
| 1.83 | -1.28 | -2.35 | | |
| 1.76 | -2 | -3.02 | | |
| -2.39 | -5.86 | -4.81 | | |
| 2.22 | -4.23 | -5.37 | | |
| 2.13 | -2.85 | -3.92 | | |
| 1.64 | 1.37 | 0.23 | | |
| 1.55 | -0.04 | -1.09 | | |
| -2.69 | -1.43 | -0.43 | | |
| -3.42 | -1.68 | -0.33 | | |
| 5.23 | -3.06 | -4.2 | | |
| 1.17 | -1.46 | -0.44 | | |
| 1.1 | -1.46 | -0.35 | | |
| 1.06 | -3.16 | -1.99 | | |
| -1.09 | -3.72 | -2.35 | | |
| -1.17 | -2.95 | -1.47 | | |
| -1.32 | -0.38 | 1.27 | | |
| -1.4 | 0.67 | 2.4 | | |
| -1.46 | -3.37 | -1.58 | | |
| -1.8 | -5.13 | -3.03 | | |
| -2.07 | -6.07 | -3.78 | | |
| 1.36 | 1.31 | 0.17 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.25 | -5.72 | -6.73 | | |
| -3.79 | -4.44 | -3.21 | | |
| 1.26 | 0.49 | -0.64 | | |
| 1.19 | 7.08 | 6.02 | | |
| 1.17 | -2.44 | -3.48 | | |
| -3.99 | -3.5 | -2.31 | | |
| 2.78 | -1.64 | -2.77 | | |
| -1.59 | -4.58 | -3.56 | | |
| 1.69 | -0.05 | -1.19 | | |
| -3.58 | -3.07 | -1.61 | | |
| 9.68 | -1.48 | -2.62 | | |
| 1.84 | -0.94 | 0.32 | | |
| 1.8 | -2.69 | -1.4 | | |
| 1.48 | -1.08 | 0.49 | | |
| 2.18 | -0.89 | -2.02 | | |
| -2.11 | -4.07 | -3 | | |
| 1.39 | -1.87 | -3.01 | | |
| 1.3 | -2.19 | -3.23 | | |
| 1.28 | 0.75 | -0.28 | | |
| 1.27 | -2.68 | -3.69 | | |
| 2.02 | 1.97 | 0.83 | | |
| -2.23 | -0.63 | 0.4 | | |
| -5.16 | -1.84 | 0.4 | | |
| 1.98 | 5.38 | 4.24 | | |
| -2.5 | 1.96 | 3.12 | | |
| -3.2 | -1.99 | -0.47 | | |
| 1.64 | 0.25 | -0.89 | | |
| -2.85 | -2.41 | -1.32 | | |
| -3.04 | -2.01 | -0.83 | | |
| 1.73 | 0.74 | -0.4 | | |
| 1.59 | -0.9 | -1.91 | | |
| -3.65 | -3.08 | -1.56 | | |
| 1.73 | 0.74 | -0.4 | | |
| 1.59 | -0.9 | -1.91 | | |
| -3.65 | -3.08 | -1.56 | | |
| 1.73 | 0.74 | -0.4 | | |
| 1.59 | -0.9 | -1.91 | | |
| -3.65 | -3.08 | -1.56 | | |
| 1.73 | 0.74 | -0.4 | | |
| 1.59 | -0.9 | -1.91 | | |
| -3.65 | -3.08 | -1.56 | | |
| 1.73 | 0.74 | -0.4 | | |
| 1.59 | -0.9 | -1.91 | | |
| -3.65 | -3.08 | -1.56 | | |
| 1.06 | 0.5 | -0.64 | | |
| -1.03 | 1.09 | 0.08 | | |
| 2.17 | 2.57 | 1.44 | | |
| 2.12 | 2.96 | 1.86 | | |
| 2.08 | 3.81 | 2.74 | | |
| -2.17 | -4.15 | -3.05 | | |
| -2.9 | -3.31 | -1.78 | | |
| 1.43 | 1.04 | -0.09 | | |
| 1.34 | 1.69 | 0.65 | | |
| -3.08 | -1.04 | -0.02 | | |
| 6.88 | -3.21 | -4.34 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.43 | -5.98 | -4.84 | | |
| 1.27 | -7.51 | -6.2 | | |
| -1.28 | -4.38 | -2.36 | | |
| 1.12 | 7.47 | 6.34 | | |
| 1.06 | -1.33 | -2.39 | | |
| 2.06 | 2.3 | 1.17 | | |
| -2.31 | 1.63 | 2.75 | | |
| -2.87 | -2.05 | -0.62 | | |
| -5.04 | -1.38 | 0.87 | | |
| -7.96 | -2.26 | 0.64 | | |
| 1.68 | -4.5 | -5.64 | | |
| 1.6 | -4.37 | -5.44 | | |
| 2.02 | 0.38 | -0.75 | | |
| 1.95 | -1.29 | -2.37 | | |
| -2.18 | -3.86 | -2.85 | | |
| 7.63 | -0.88 | -2.01 | | |
| 7.52 | -0.33 | -1.44 | | |
| 1.54 | -0.85 | 0.33 | | |
| 1.47 | -0.88 | 0.36 | | |
| 1.46 | -4.49 | -3.24 | | |
| 1.4 | -5.1 | -3.79 | | |
| 1.35 | -1.92 | -0.56 | | |
| 1.35 | -2.76 | -1.39 | | |
| 1.32 | -4.85 | -3.45 | | |
| 1.32 | -2.73 | -1.33 | | |
| 1.3 | -3.71 | -2.29 | | |
| 1.26 | -2.24 | -0.77 | | |
| 1.19 | -1.96 | -0.41 | | |
| 1.17 | -2.28 | -0.7 | | |
| 1.16 | -3.81 | -2.22 | | |
| 1.14 | 0.11 | 1.72 | | |
| 1.11 | -3.67 | -2.02 | | |
| 1.09 | -1.79 | -0.11 | | |
| 1.08 | -2.33 | -0.64 | | |
| 1.06 | -2.42 | -0.7 | | |
| 1.04 | -3.11 | -1.36 | | |
| -1.01 | -2.6 | -0.79 | | |
| -1.03 | -4.67 | -2.82 | | |
| -1.04 | -3.25 | -1.4 | | |
| -1.05 | -3.94 | -2.07 | | |
| -1.15 | -2.4 | -0.39 | | |
| -1.46 | -4.71 | -2.36 | | |
| 1.93 | -1.86 | -2.99 | | |
| 1.8 | -1.98 | -3.02 | | |
| -2.9 | -3.15 | -1.8 | | |
| -3.5 | -2.72 | -1.1 | | |
| 2.14 | 0.49 | -0.64 | | |
| -2.13 | -1.14 | -0.09 | | |
| -2.6 | -1.42 | -0.08 | | |
| -2.98 | -2.29 | -0.74 | | |
| 1.58 | -3.89 | -5.02 | | |
| -3.3 | -1.08 | 0.17 | | |
| 1.67 | -3.96 | -5.09 | | |
| 1.57 | -2.18 | -3.23 | | |
| 1.47 | -3.77 | -4.9 | | |
| 1.44 | -2.41 | -3.51 | | |
| 1.36 | -3.91 | -4.93 | | |
| 2.38 | 4.93 | 3.8 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.26 | 1.44 | 0.39 | | |
| -1.88 | -2.51 | -1.48 | | |
| -2.18 | 0.39 | 1.64 | | |
| 2.26 | -2.49 | -3.62 | | |
| 2.17 | -2 | -3.07 | | |
| -1.99 | -1.85 | -0.8 | | |
| -2.17 | -1.62 | -0.46 | | |
| -2.18 | -2.29 | -1.12 | | |
| -2.83 | -3.96 | -2.41 | | |
| 1.89 | -2.83 | -3.96 | | |
| -2.93 | 0.05 | 1.38 | | |
| 1.41 | -1.16 | -2.29 | | |
| 1.39 | 0.33 | -0.78 | | |
| 1.33 | -1.88 | -2.92 | | |
| 1.63 | -2.22 | -3.35 | | |
| -3.57 | -5.04 | -3.63 | | |
| 2.17 | 0.03 | -1.1 | | |
| 1.98 | 1.5 | 0.49 | | |
| 1.87 | -1.57 | -2.71 | | |
| 1.75 | -0.58 | -1.62 | | |
| 1.7 | -0.97 | -1.97 | | |
| -2.56 | 2.41 | 3.54 | | |
| 1.62 | 0.06 | -1.07 | | |
| 1.5 | -0.38 | -1.4 | | |
| -2.74 | -1.9 | -0.88 | | |
| 1.19 | -0.48 | -1.62 | | |
| -6.57 | -2.95 | -1.11 | | |
| 2.32 | -2.52 | -3.65 | | |
| -1.93 | -4.87 | -3.84 | | |
| 3.32 | -1.93 | -3.07 | | |
| -1.33 | 0.79 | 1.8 | | |
| -1.81 | -3.68 | -2.23 | | |
| -2.07 | -4.08 | -2.44 | | |
| 1.43 | 1.25 | 0.12 | | |
| -3.24 | -0.35 | 0.74 | | |
| -3.36 | -1.79 | -0.66 | | |
| -3.62 | -0.17 | 1.07 | | |
| -3.66 | -0.98 | 0.28 | | |
| -4.08 | -2.9 | -1.49 | | |
| 1.8 | 1.69 | 0.56 | | |
| -2.99 | -2.4 | -1.1 | | |
| -3.19 | -2.71 | -1.32 | | |
| 1.27 | -0.51 | -1.64 | | |
| -4.57 | -4.62 | -3.22 | | |
| 1.58 | -3.85 | -4.98 | | |
| -3.3 | -1.03 | 0.22 | | |
| 2.59 | -3.44 | -4.56 | | |
| 2.44 | -2.63 | -3.67 | | |
| -2.14 | -4.68 | -3.34 | | |
| 2.31 | 4.89 | 3.77 | | |
| -1.99 | -0.52 | 0.55 | | |
| -2.3 | -2.8 | -1.52 | | |
| -2.42 | -2.31 | -0.95 | | |
| 2.24 | -2.01 | -3.13 | | |
| 2.1 | -1 | -2.03 | | |
| -2.06 | -3.95 | -2.87 | | |
| 1.53 | -5.77 | -6.89 | | |
| 1.53 | -2.81 | -3.93 | | |

| | | | | |
|-------|-------|-------|--|--|
| -5.61 | -7.18 | -5.2 | | |
| 1.79 | -5.16 | -6.29 | | |
| -2.65 | -4.74 | -3.62 | | |
| -2.8 | -3.01 | -1.81 | | |
| -3.7 | -5.13 | -3.53 | | |
| 3.2 | 0.63 | -0.5 | | |
| -1.41 | -0.86 | 0.19 | | |
| -1.42 | 1.87 | 2.92 | | |
| -1.63 | -1.47 | -0.21 | | |
| 1.24 | 1.98 | 0.86 | | |
| -5.11 | -4.63 | -3.09 | | |
| 2.17 | -6.86 | -7.98 | | |
| 2.04 | -8.14 | -9.16 | | |
| -2.05 | -2.33 | -1.3 | | |
| -2.07 | -3.66 | -2.61 | | |
| -2.09 | -5.49 | -4.43 | | |
| -2.09 | -3.66 | -2.6 | | |
| -2.1 | -6.25 | -5.19 | | |
| -2.12 | -3.53 | -2.44 | | |
| -2.14 | -3.87 | -2.77 | | |
| -2.16 | -4.58 | -3.47 | | |
| -2.39 | -4.09 | -2.83 | | |
| -2.66 | -5.44 | -4.03 | | |
| -2.85 | -5.01 | -3.5 | | |
| -3.7 | -6.5 | -4.62 | | |
| 42.62 | -0.56 | -1.68 | | |
| 9.57 | -3.57 | -2.54 | | |
| 6.78 | -1.86 | -0.33 | | |
| 6.29 | 0.36 | 2 | | |
| 5.43 | -0.92 | 0.93 | | |
| 4.63 | 0.99 | 3.07 | | |
| 3.51 | -0.09 | 2.39 | | |
| 2.03 | 1.81 | 5.08 | | |
| 1.98 | -2.74 | 0.57 | | |
| 1.6 | -3.78 | -0.17 | | |
| 1.59 | -0.69 | 2.93 | | |
| 1.34 | -3.93 | -0.07 | | |
| 1.32 | -1.95 | 1.93 | | |
| 1.27 | -3.53 | 0.42 | | |
| 1.23 | -4.45 | -0.46 | | |
| 1.22 | -5.43 | -1.42 | | |
| -1.3 | -6.48 | -1.81 | | |
| 2.27 | -2.22 | -3.34 | | |
| -2.41 | -2.81 | -1.48 | | |
| 1.72 | -0.01 | -1.14 | | |
| 1.59 | 1.18 | 0.17 | | |
| 2.05 | 2.46 | 1.33 | | |
| 1.97 | 1.15 | 0.08 | | |
| 1.91 | 0.37 | -0.65 | | |
| -2.29 | -1.48 | -0.37 | | |
| -2.33 | -1.51 | -0.38 | | |
| 1.33 | -0.12 | -1.24 | | |
| 1.3 | 1.82 | 0.73 | | |
| -3.29 | 0.02 | 1.02 | | |
| -3.48 | -4.37 | -3.28 | | |
| -4.41 | -2.59 | -1.16 | | |
| -5.32 | -2.19 | -0.48 | | |
| 2.06 | -2.02 | -3.15 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.36 | -2.79 | -1.63 | | |
| -2.79 | -3.54 | -2.14 | | |
| 1.44 | 4.12 | 2.99 | | |
| -3.3 | -6.34 | -5.22 | | |
| -4.76 | -3.8 | -2.15 | | |
| 1.6 | -1.79 | -2.91 | | |
| 1.53 | 1.22 | 0.17 | | |
| -2.86 | -1.03 | 0.05 | | |
| -2.91 | -2.39 | -1.3 | | |
| -2.94 | -2.07 | -0.96 | | |
| -3 | -2.92 | -1.78 | | |
| -3.55 | -2.38 | -1 | | |
| -4.81 | -2.42 | -0.6 | | |
| 2.35 | 4.17 | 3.04 | | |
| -2.22 | 2.66 | 3.92 | | |
| 2.55 | -0.04 | -1.16 | | |
| -2.01 | -3.02 | -1.78 | | |
| -2.4 | -3.75 | -2.25 | | |
| 1.65 | -0.52 | -1.64 | | |
| 1.56 | -3.46 | -4.5 | | |
| 1.52 | -2.21 | -3.22 | | |
| 1.92 | 0.63 | -0.5 | | |
| 1.78 | 1.15 | 0.14 | | |
| -2.36 | -1.95 | -0.9 | | |
| -2.38 | -3.3 | -2.24 | | |
| -2.45 | -1.95 | -0.84 | | |
| -2.64 | -0.91 | 0.3 | | |
| -2.96 | -2.1 | -0.72 | | |
| -3.27 | -0.56 | 0.97 | | |
| -4.94 | -2.48 | -0.37 | | |
| -9.37 | -3.27 | -0.23 | | |
| -1.02 | 2.17 | 1.05 | | |
| -1.04 | -2.33 | -3.43 | | |
| -4.72 | -0.48 | 0.6 | | |
| 84.42 | -0.58 | -1.7 | | |
| 84.43 | -0.28 | -1.4 | | |
| 19.22 | 0.63 | 1.63 | | |
| 14.55 | 0.51 | 1.92 | | |
| 10.31 | -3.06 | -1.15 | | |
| 9.79 | -4.83 | -2.85 | | |
| 9.01 | -0.57 | 1.53 | | |
| 2.8 | -3.74 | 0.05 | | |
| 2.04 | 1.38 | 0.26 | | |
| 1.89 | 2.04 | 1.04 | | |
| 1.42 | 1.26 | 0.14 | | |
| 1.42 | 1.32 | 0.21 | | |
| 1.34 | 1.27 | 0.24 | | |
| 1.32 | 2.5 | 1.48 | | |
| 1.54 | -2.01 | -3.12 | | |
| 1.5 | -0.02 | -1.09 | | |
| -2.85 | -3.75 | -2.72 | | |
| 1.81 | -1.04 | -2.15 | | |
| -2.55 | -3.15 | -2.06 | | |
| 1.77 | -1.67 | -2.78 | | |
| 1.72 | 1.5 | 0.42 | | |
| -2.49 | -3 | -1.98 | | |
| -4.04 | -4.47 | -2.74 | | |
| 13.17 | 1.19 | 0.07 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.88 | -1.75 | -0.06 | | |
| 1.11 | -2.85 | -0.4 | | |
| 1.1 | -0.92 | 1.54 | | |
| 1.07 | -1.26 | 1.24 | | |
| 1.03 | -2.19 | 0.36 | | |
| -1 | -1.63 | 0.97 | | |
| 1.54 | -6.31 | -7.43 | | |
| 1.53 | -5.98 | -7.09 | | |
| -2.87 | -7.97 | -6.94 | | |
| -3.31 | -7.52 | -6.29 | | |
| -3.95 | -5.92 | -4.44 | | |
| -4.37 | -7.51 | -5.88 | | |
| -4.39 | -8.89 | -7.24 | | |
| 1.65 | -0.65 | -1.76 | | |
| 1.62 | -0.73 | -1.83 | | |
| 1.58 | -0.55 | -1.61 | | |
| 1.57 | -1.92 | -2.96 | | |
| 1.54 | -1.13 | -2.15 | | |
| 1.95 | -3.42 | -4.53 | | |
| 1.89 | -0.71 | -1.79 | | |
| 1.88 | 0.7 | -0.37 | | |
| -2.73 | -2.6 | -1.31 | | |
| 1.59 | 1.08 | -0.04 | | |
| -3.63 | -2.55 | -1.14 | | |
| 1.92 | 1.83 | 0.72 | | |
| -2.82 | -0.39 | 0.93 | | |
| -2.85 | -1.37 | -0.03 | | |
| -2.97 | -0.19 | 1.21 | | |
| -3.9 | 3.17 | 4.96 | | |
| -4.46 | 3.19 | 5.17 | | |
| -4.83 | 3.09 | 5.19 | | |
| -4.99 | -1.15 | 0.99 | | |
| -5.54 | 1.73 | 4.02 | | |
| -5.55 | 1.86 | 4.16 | | |
| -5.62 | 1.75 | 4.07 | | |
| -6.35 | 1.73 | 4.22 | | |
| -6.79 | 1.13 | 3.72 | | |
| -7.07 | 0.95 | 3.6 | | |
| -7.17 | 2.75 | 5.41 | | |
| -7.76 | 0.82 | 3.59 | | |
| -8.47 | -0.06 | 2.85 | | |
| -9.33 | 1.79 | 4.84 | | |
| 1.33 | -3.39 | -4.51 | | |
| 1.23 | -1.45 | -2.46 | | |
| 1.22 | -2.49 | -3.49 | | |
| -5.41 | -6.03 | -4.31 | | |
| 2.98 | -1.52 | -2.64 | | |
| -1.8 | -0.08 | 1.23 | | |
| 1.45 | 2.23 | 1.11 | | |
| -3.16 | -1.48 | -0.41 | | |
| 1.43 | -1.89 | -3.01 | | |
| 1.4 | -2.9 | -4 | | |
| 1.37 | -2.68 | -3.74 | | |
| -3.31 | -2.8 | -1.68 | | |
| 2.2 | -1.4 | -2.52 | | |
| 2.03 | 1.87 | 0.86 | | |
| 2.43 | -1.57 | -2.68 | | |
| -1.79 | -3.65 | -2.63 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.84 | -3.73 | -2.67 | | |
| 1.54 | -3.54 | -4.65 | | |
| 1.48 | -1.61 | -2.67 | | |
| 1.44 | -4.91 | -5.93 | | |
| 1.55 | 0.08 | -1.04 | | |
| 1.45 | 0.29 | -0.73 | | |
| 1.44 | -1.29 | -2.3 | | |
| 4.73 | -2.87 | -3.99 | | |
| 4.5 | 0.49 | -0.54 | | |
| 4.5 | -1.99 | -3.03 | | |
| 3.86 | 0.52 | -0.59 | | |
| -1.81 | -3.3 | -1.6 | | |
| 2.48 | 0.49 | -0.61 | | |
| -2 | -0.7 | 0.51 | | |
| -2.09 | 0.91 | 2.18 | | |
| -2.21 | 0.54 | 1.89 | | |
| -3.46 | 0.25 | 2.24 | | |
| -3.84 | -0.85 | 1.29 | | |
| -3.87 | 2.1 | 4.25 | | |
| 2.53 | -2.91 | -4.02 | | |
| -2.33 | -0.84 | 0.62 | | |
| 3.24 | -5.68 | -6.79 | | |
| 3.15 | -5.32 | -6.38 | | |
| 1.54 | -1.73 | -2.84 | | |
| -3.1 | -3.29 | -2.15 | | |
| 2.26 | -3.57 | -4.68 | | |
| -2.09 | -4.53 | -3.4 | | |
| -2.17 | -2.7 | -1.52 | | |
| -2.26 | -3.62 | -2.38 | | |
| -2.38 | -3.88 | -2.57 | | |
| -3.8 | -5.33 | -3.34 | | |
| 8.2 | -1.2 | -2.31 | | |
| 7.77 | -1.88 | -2.91 | | |
| 1.74 | -2.51 | -1.38 | | |
| 1.36 | -5.54 | -4.06 | | |
| 1.13 | -5.04 | -3.28 | | |
| 1.07 | -2 | -0.18 | | |
| 1.87 | -1.75 | -2.86 | | |
| 1.88 | -3.5 | -4.61 | | |
| -2.38 | -6.12 | -5.08 | | |
| 2.11 | -4.35 | -5.46 | | |
| 2.03 | -0.49 | -1.55 | | |
| 2.03 | -3.67 | -4.78 | | |
| -2.84 | -5.09 | -3.68 | | |
| 2.46 | -3.37 | -4.49 | | |
| -1.79 | -1.72 | -0.69 | | |
| -2.42 | -2.27 | -0.8 | | |
| 2.18 | -0.55 | -1.67 | | |
| -2.52 | -0.53 | 0.81 | | |
| 10.48 | -1.75 | -2.86 | | |
| 2.37 | -0.11 | 0.93 | | |
| 2.34 | 0.63 | 1.68 | | |
| 2.26 | -2.71 | -1.61 | | |
| 1.8 | 0.13 | 1.56 | | |
| 1.3 | -4.04 | -2.14 | | |
| 1.27 | -2.01 | -0.08 | | |
| 1.21 | -2.71 | -0.71 | | |
| 1.11 | -1.95 | 0.18 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.06 | 2.22 | 4.4 | | |
| 1.04 | 0.2 | 2.41 | | |
| -1.02 | -5.11 | -2.81 | | |
| 1.98 | -1.22 | -2.33 | | |
| -2.64 | -2.7 | -1.43 | | |
| 1.46 | 2.05 | 0.94 | | |
| 1.4 | -3.15 | -4.2 | | |
| 1.7 | -1.55 | -2.65 | | |
| -5.56 | -3.2 | -1.07 | | |
| 1.3 | 4.85 | 3.75 | | |
| -3.37 | -2.76 | -1.74 | | |
| -3.61 | -0.88 | 0.24 | | |
| -4.01 | -1.3 | -0.03 | | |
| 4.13 | -0.44 | -1.54 | | |
| -1.18 | -3.21 | -2.03 | | |
| -1.29 | 0.3 | 1.62 | | |
| 3.65 | -1.4 | -2.51 | | |
| 3.44 | -2.86 | -3.88 | | |
| -1.19 | -4.72 | -3.7 | | |
| -1.23 | -3.2 | -2.14 | | |
| -1.24 | -2.82 | -1.75 | | |
| -1.34 | -1.24 | -0.05 | | |
| -1.58 | -2.19 | -0.77 | | |
| 1.67 | -3.52 | -4.63 | | |
| -2.68 | -3.23 | -2.17 | | |
| -2.76 | -3.36 | -2.26 | | |
| -2.77 | -2.02 | -0.92 | | |
| 2.02 | -2.42 | -3.52 | | |
| 1.96 | -2.79 | -3.84 | | |
| 1.56 | -2.56 | -3.67 | | |
| 1.51 | 0.35 | -0.71 | | |
| 1.5 | -2.01 | -3.06 | | |
| -3.27 | -0.25 | 0.99 | | |
| -3.52 | -2.61 | -1.26 | | |
| 2.81 | 2.41 | 1.3 | | |
| -1.89 | -1.22 | 0.09 | | |
| -1.94 | -0.14 | 1.2 | | |
| -2.03 | -0.25 | 1.16 | | |
| -2.26 | -2.39 | -0.83 | | |
| -2.39 | 0.52 | 2.16 | | |
| 1.51 | 3.32 | 2.22 | | |
| 1.43 | 2.37 | 1.35 | | |
| 1.54 | 1.32 | 0.21 | | |
| 1.54 | 3.53 | 2.43 | | |
| 6.56 | -0.01 | -1.11 | | |
| 1.51 | -1 | 0.02 | | |
| 1.38 | -3.13 | -1.98 | | |
| 1.38 | -2.33 | -1.18 | | |
| 1.3 | 4.03 | 5.26 | | |
| 1.14 | 4.36 | 5.78 | | |
| 1.12 | 4.03 | 5.47 | | |
| -4.08 | -1.07 | 2.57 | | |
| 1.89 | 2.05 | 0.94 | | |
| -2.29 | -1.45 | -0.44 | | |
| -2.47 | -2.61 | -1.49 | | |
| 4.79 | -0.93 | -2.03 | | |
| 4.54 | -0.48 | -1.51 | | |
| 1.69 | 0.14 | -0.96 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.67 | -2.4 | -3.49 | | |
| 1.61 | -3.14 | -4.17 | | |
| -3.03 | -2.99 | -1.74 | | |
| 2.92 | -2.18 | -3.28 | | |
| 2.78 | -1.87 | -2.91 | | |
| -1.48 | -4.53 | -3.53 | | |
| -1.59 | -2.49 | -1.38 | | |
| -1.77 | -5.67 | -4.41 | | |
| -1.8 | 0.2 | 1.48 | | |
| -1.81 | -0.79 | 0.5 | | |
| -2.29 | -3.2 | -1.56 | | |
| -1.07 | -2.23 | -3.33 | | |
| -1.07 | 2.73 | 1.63 | | |
| -4.6 | -1.05 | -0.05 | | |
| -4.63 | -1.42 | -0.41 | | |
| 1.77 | -0.06 | -1.17 | | |
| -2.54 | -4.1 | -3.04 | | |
| -2.67 | -3.22 | -2.08 | | |
| 1.3 | 1.44 | 0.34 | | |
| 1.23 | -2.09 | -3.11 | | |
| 1.76 | 0.66 | -0.44 | | |
| -2.45 | -0.57 | 0.44 | | |
| -3.02 | -0.66 | 0.65 | | |
| -3.11 | -1.58 | -0.23 | | |
| 1.82 | -0.53 | -1.63 | | |
| -7.18 | -3.07 | -0.46 | | |
| 2.23 | -3.6 | -4.7 | | |
| 2.09 | -1.25 | -2.26 | | |
| -2.98 | -0.28 | 1.34 | | |
| 1.75 | -0.94 | -2.05 | | |
| -4.23 | -1.38 | 0.4 | | |
| 1.62 | 1.98 | 0.88 | | |
| 1.61 | -1.42 | -2.51 | | |
| 1.52 | 0.84 | -0.16 | | |
| 2.07 | -0.78 | -1.88 | | |
| -2.14 | -0.22 | 0.83 | | |
| -2.22 | -1.94 | -0.84 | | |
| -4.51 | -1.29 | 0.83 | | |
| 1.88 | 1.58 | 0.49 | | |
| -2.67 | -2.59 | -1.36 | | |
| -2.78 | -1.13 | 0.16 | | |
| -2.92 | -2.38 | -1.02 | | |
| -4.07 | -2.37 | -0.53 | | |
| 2.32 | -0.92 | -2.01 | | |
| -1.99 | -2.15 | -1.04 | | |
| -2.93 | -2.49 | -0.82 | | |
| 1.97 | -0.26 | -1.36 | | |
| 1.94 | -1.02 | -2.1 | | |
| -5.53 | -7.12 | -4.76 | | |
| 2.24 | -1.91 | -3.01 | | |
| 2.19 | -1.3 | -2.37 | | |
| -1.96 | 0.94 | 1.97 | | |
| -1.99 | 0.25 | 1.3 | | |
| -2.03 | -0.18 | 0.91 | | |
| -2.04 | -3.73 | -2.64 | | |
| -2.22 | -3.17 | -1.95 | | |
| -2.24 | -2.53 | -1.31 | | |
| -2.31 | -1.94 | -0.66 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.5 | -3.82 | -2.44 | | |
| -2.73 | -4.21 | -2.7 | | |
| -2.76 | -3.27 | -1.75 | | |
| -2.91 | -2.95 | -1.35 | | |
| 1.73 | 0.97 | -0.13 | | |
| 1.63 | 1.36 | 0.35 | | |
| 1.73 | 0.5 | -0.6 | | |
| 1.62 | -1.65 | -2.65 | | |
| 3.31 | 1.59 | 0.49 | | |
| -1.44 | 0.19 | 1.34 | | |
| 2.47 | -0.58 | -1.68 | | |
| 2.45 | 0.25 | -0.83 | | |
| -2.9 | -2.07 | -0.33 | | |
| 1.36 | 1.73 | 0.63 | | |
| 1.31 | 3.45 | 2.4 | | |
| 1.28 | -2.28 | -3.29 | | |
| 1.65 | -3.25 | -4.35 | | |
| 1.64 | -0.03 | -1.12 | | |
| 1.59 | -1.18 | -2.22 | | |
| -2.64 | -0.82 | 0.21 | | |
| -2.97 | -4.21 | -3.01 | | |
| 1.51 | 0.31 | -0.79 | | |
| 1.43 | 0.73 | -0.28 | | |
| 1.43 | -1.06 | -2.08 | | |
| -5.19 | -3.94 | -2.06 | | |
| 5.23 | 1.19 | 0.1 | | |
| 1.13 | -0.2 | 0.91 | | |
| 1.89 | -0.02 | -1.12 | | |
| -3.61 | -3.33 | -1.66 | | |
| 2.17 | -2.03 | -3.13 | | |
| -1.99 | -4.07 | -3.06 | | |
| -2.19 | -3.98 | -2.82 | | |
| -2.27 | -1.83 | -0.63 | | |
| -2.43 | -3.63 | -2.33 | | |
| -2.8 | -1.87 | -0.36 | | |
| 2.24 | 3.69 | 2.59 | | |
| 2.14 | 2.84 | 1.81 | | |
| -1.98 | 0.1 | 1.16 | | |
| -1.98 | 0.1 | 1.16 | | |
| 1.62 | -0.5 | -1.59 | | |
| -2.94 | -3.72 | -2.56 | | |
| 1.75 | -2.45 | -3.55 | | |
| 1.75 | -2.84 | -3.93 | | |
| -3.07 | -3.29 | -1.96 | | |
| 1.49 | -2.79 | -3.89 | | |
| -3.18 | -3.32 | -2.17 | | |
| 1.26 | 0.9 | -0.19 | | |
| -4.4 | -2.16 | -0.78 | | |
| 2.19 | 3.45 | 2.36 | | |
| 2.13 | 1.72 | 0.67 | | |
| -2.26 | -1.63 | -0.42 | | |
| -2.72 | -1.27 | 0.21 | | |
| -3.04 | -1.27 | 0.37 | | |
| 4.26 | 1.51 | 0.41 | | |
| -1.05 | -0.79 | 0.29 | | |
| -1.06 | 0.07 | 1.16 | | |
| -1.13 | 0.76 | 1.94 | | |
| -1.24 | -2.49 | -1.18 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.29 | -4.41 | -3.05 | | |
| 1.39 | -4.29 | -5.38 | | |
| 1.32 | 2.17 | 1.16 | | |
| -3.15 | -3.62 | -2.58 | | |
| 2.37 | -2.56 | -3.65 | | |
| -2.07 | -4.48 | -3.28 | | |
| 2.01 | -1.18 | -2.27 | | |
| -2.36 | -4.93 | -3.77 | | |
| -2.57 | -1.89 | -0.6 | | |
| -5.88 | -4.67 | -2.19 | | |
| 2.16 | 2.53 | 1.44 | | |
| -1.97 | -3.25 | -2.25 | | |
| -2.39 | -2.07 | -0.79 | | |
| -2.4 | -1.96 | -0.68 | | |
| -2.77 | 0.62 | 2.11 | | |
| -3 | -1.36 | 0.24 | | |
| -3.01 | 0.08 | 1.69 | | |
| 2.01 | -5.05 | -6.14 | | |
| 1.99 | -5.87 | -6.95 | | |
| -3.17 | -8.01 | -6.43 | | |
| 1.79 | -3.24 | -4.33 | | |
| 1.69 | -2.68 | -3.69 | | |
| -6.13 | -3.87 | -1.51 | | |
| 2.39 | 0.5 | -0.59 | | |
| -1.78 | -1.14 | -0.15 | | |
| 1.57 | 0.24 | -0.85 | | |
| -3.14 | -2.59 | -1.38 | | |
| -3.47 | -0.74 | 0.62 | | |
| -4.88 | -4.04 | -2.2 | | |
| 3.57 | -2.42 | -3.52 | | |
| -1.35 | -3.66 | -2.48 | | |
| 1.83 | -1.84 | -2.93 | | |
| -2.74 | -2.21 | -0.98 | | |
| -2.76 | -1.24 | 0 | | |
| -3.27 | -1.27 | 0.22 | | |
| 9.25 | 0.65 | -0.44 | | |
| 9.15 | 1.38 | 0.31 | | |
| 1.9 | -1.6 | -0.4 | | |
| 1.87 | 2.28 | 3.5 | | |
| 1.85 | -1.27 | -0.04 | | |
| 1.82 | -0.36 | 0.9 | | |
| 1.78 | 0.63 | 1.92 | | |
| 1.68 | -2.39 | -1.02 | | |
| 1.57 | -0.68 | 0.78 | | |
| 1.25 | -1.98 | -0.18 | | |
| 1.1 | -2.21 | -0.23 | | |
| 1.04 | 3.47 | 5.54 | | |
| -1 | 5.08 | 7.21 | | |
| -1.14 | -0.83 | 1.47 | | |
| -1.55 | 1.57 | 4.32 | | |
| 1.36 | 1.95 | 0.86 | | |
| 1.34 | 1.5 | 0.44 | | |
| 1.3 | 0.42 | -0.61 | | |
| -3.44 | 0.85 | 1.98 | | |
| -7.88 | -0.64 | 1.69 | | |
| 1.78 | 0.47 | -0.62 | | |
| 1.75 | -0.38 | -1.45 | | |
| 1.54 | -1.72 | -2.8 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.47 | -3.3 | -1.96 | | |
| -3.54 | -5.21 | -3.85 | | |
| -4.39 | -4.74 | -3.07 | | |
| -6.59 | -6.4 | -4.14 | | |
| 1.5 | -0.32 | -1.41 | | |
| 1.48 | -1.93 | -2.99 | | |
| 1.48 | 0.23 | -0.84 | | |
| -3.22 | -3.92 | -2.74 | | |
| -3.29 | -1.77 | -0.55 | | |
| -4.3 | -3.25 | -1.65 | | |
| 2.41 | -0.99 | -2.08 | | |
| -1.79 | -5.96 | -4.94 | | |
| -1.79 | -5.82 | -4.79 | | |
| -1.91 | -4.58 | -3.47 | | |
| -1.96 | -6.09 | -4.94 | | |
| 1.64 | -1.66 | -2.75 | | |
| 1.59 | -2.43 | -3.48 | | |
| -3.04 | -2.86 | -1.63 | | |
| 2.22 | 1.19 | 0.1 | | |
| -2.69 | 0.58 | 2.07 | | |
| -3.07 | 1.32 | 3 | | |
| -4.45 | -0.3 | 1.91 | | |
| -5.23 | -1.44 | 1 | | |
| -8.39 | -2.85 | 0.27 | | |
| 3.99 | -0.53 | -1.62 | | |
| -1.22 | -0.08 | 1.11 | | |
| -1.22 | -0.61 | 0.58 | | |
| -1.33 | 0.82 | 2.14 | | |
| 2.09 | -5.47 | -6.55 | | |
| -2.03 | -4.19 | -3.19 | | |
| 1.77 | -0.8 | -1.88 | | |
| -2.41 | -3.04 | -2.03 | | |
| -3.79 | -1.06 | 0.61 | | |
| 1.32 | -0.83 | -1.91 | | |
| 1.28 | -2.25 | -3.29 | | |
| -3.24 | -1.76 | -0.75 | | |
| -3.51 | -1.64 | -0.51 | | |
| 2.55 | -0.97 | -2.06 | | |
| -2.3 | 1.18 | 2.65 | | |
| 5.4 | 0 | -1.09 | | |
| 1.17 | -2.27 | -1.15 | | |
| 1.05 | -4.77 | -3.5 | | |
| -1.08 | -2.62 | -1.17 | | |
| -1.56 | -3.26 | -1.27 | | |
| 10.57 | 0.77 | -0.31 | | |
| 2.45 | -3.88 | -2.85 | | |
| 2.25 | -1.05 | 0.1 | | |
| 1.82 | -3.18 | -1.73 | | |
| 1.81 | -1.73 | -0.27 | | |
| 1.52 | -4.05 | -2.33 | | |
| 1.45 | -1.02 | 0.77 | | |
| 1.4 | -2.47 | -0.63 | | |
| 1.32 | -4.91 | -2.99 | | |
| 1.24 | -4.47 | -2.46 | | |
| 1.17 | 1.07 | 3.16 | | |
| 1.11 | -5.09 | -2.92 | | |
| 1.07 | -0.24 | 1.99 | | |
| 1.06 | -4.95 | -2.72 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.04 | 2.31 | 4.57 | | |
| -1.26 | -4.92 | -2.26 | | |
| -1.65 | -3.73 | -0.69 | | |
| 1.32 | -1.45 | -2.53 | | |
| -8.51 | -4.77 | -2.36 | | |
| 1.33 | -6.67 | -7.75 | | |
| 1.32 | -7.54 | -8.61 | | |
| -3.24 | -4.8 | -3.77 | | |
| -3.39 | -4.9 | -3.81 | | |
| 1.78 | 0.05 | -1.03 | | |
| 1.76 | 0.73 | -0.34 | | |
| -3.9 | -0.32 | 1.4 | | |
| 1.93 | -0.33 | -1.41 | | |
| 1.87 | -1.35 | -2.39 | | |
| -2.72 | -2.5 | -1.19 | | |
| 2.19 | 1.93 | 0.84 | | |
| 2.14 | -0.62 | -1.68 | | |
| -2.68 | -0.85 | 0.62 | | |
| 4.45 | 1.3 | 0.22 | | |
| 4.27 | -0.23 | -1.25 | | |
| 1 | -1.42 | -0.35 | | |
| -1.02 | 0.83 | 1.93 | | |
| -1.06 | -1.96 | -0.8 | | |
| 3.32 | -0.22 | -1.3 | | |
| 3.2 | -0.25 | -1.28 | | |
| -1.58 | 0.71 | 2.02 | | |
| -2.12 | -3.72 | -1.98 | | |
| 1.43 | -3.52 | -4.6 | | |
| -3.26 | -3.45 | -2.32 | | |
| -3.64 | -2.5 | -1.21 | | |
| -5.06 | -4.58 | -2.81 | | |
| 5.4 | 0.07 | -1.01 | | |
| -1.2 | -0.01 | 1.61 | | |
| 2.1 | -1.27 | -2.36 | | |
| -2.56 | -4.45 | -3.11 | | |
| 1.88 | -3.44 | -4.52 | | |
| -2.96 | -2.61 | -1.22 | | |
| 1.11 | -0.62 | -1.71 | | |
| -4.26 | -2.26 | -1.11 | | |
| -5.77 | -5.16 | -3.56 | | |
| 1.92 | -3.34 | -4.43 | | |
| -2.48 | -4.58 | -3.41 | | |
| -2.52 | -4.01 | -2.82 | | |
| 1.56 | -1.07 | -2.16 | | |
| -2.89 | -1.61 | -0.52 | | |
| 1.24 | -0.36 | -1.45 | | |
| 1.17 | -3.16 | -4.16 | | |
| 2.2 | 1.39 | 0.32 | | |
| -2.24 | -4.14 | -2.91 | | |
| 3.26 | 0.1 | -0.98 | | |
| -1.44 | -3.36 | -2.21 | | |
| 1.82 | 1.36 | 0.29 | | |
| 1.81 | 1.11 | 0.04 | | |
| -2.41 | -2.07 | -1.01 | | |
| -3.34 | -2.46 | -0.93 | | |
| 2.27 | 0.86 | -0.22 | | |
| 2.22 | -1.25 | -2.3 | | |
| -1.86 | 3.05 | 4.05 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.9 | -1.6 | -0.57 | | |
| -1.92 | -1.06 | -0.01 | | |
| -2.04 | -0.22 | 0.91 | | |
| 2.56 | -2.89 | -3.97 | | |
| -1.68 | -4.22 | -3.19 | | |
| -1.88 | -3.59 | -2.4 | | |
| -2.82 | -4.61 | -2.84 | | |
| 2.12 | -1.46 | -2.53 | | |
| 2.1 | 2.65 | 1.58 | | |
| 3.43 | -3.7 | -4.78 | | |
| -1.24 | -3.04 | -2.02 | | |
| -1.32 | -7.79 | -6.69 | | |
| -1.35 | -4 | -2.87 | | |
| -2.06 | -7.09 | -5.35 | | |
| -2.81 | -6.51 | -4.32 | | |
| 1.74 | -5.86 | -6.93 | | |
| 1.74 | -4.26 | -5.33 | | |
| -2.41 | -6.98 | -5.98 | | |
| -2.52 | -5.73 | -4.68 | | |
| -2.85 | -6.66 | -5.42 | | |
| -3.7 | -4.68 | -3.07 | | |
| 5.72 | -1.87 | -2.95 | | |
| 1.29 | -4.66 | -3.59 | | |
| 1.24 | -4.43 | -3.3 | | |
| 1.15 | -3.01 | -1.78 | | |
| 1.03 | -2.92 | -1.53 | | |
| 1.02 | -5.11 | -3.71 | | |
| 1 | -0.1 | 1.33 | | |
| 2.49 | -2.2 | -3.28 | | |
| 2.38 | 0.74 | -0.28 | | |
| 3.08 | -2.99 | -4.07 | | |
| 2.99 | -4.52 | -5.55 | | |
| 1.62 | -1.11 | -2.19 | | |
| -2.85 | -1.11 | 0.03 | | |
| -3.08 | -1.93 | -0.69 | | |
| -3.83 | -1.39 | 0.17 | | |
| -3.83 | -1.78 | -0.23 | | |
| -4.17 | -2.04 | -0.36 | | |
| -4.37 | -1.89 | -0.14 | | |
| -4.94 | -1.91 | 0.01 | | |
| 2.28 | 4.55 | 3.48 | | |
| -2.57 | -1.51 | -0.03 | | |
| 2.24 | 2.14 | 1.06 | | |
| -2.01 | -0.48 | 0.62 | | |
| 1.83 | -1.23 | -2.3 | | |
| -3.09 | -1.59 | -0.17 | | |
| 1.73 | 0.67 | -0.41 | | |
| -3.65 | -3.15 | -1.57 | | |
| 5.82 | 0.14 | -0.93 | | |
| 5.63 | 3.33 | 2.3 | | |
| 1.35 | -2.61 | -1.58 | | |
| 1.32 | -1.94 | -0.86 | | |
| 1.21 | -1.67 | -0.47 | | |
| 1.2 | 0.04 | 1.26 | | |
| 1.15 | -1.8 | -0.54 | | |
| -1.03 | -1.47 | 0.05 | | |
| -1.07 | 3.52 | 5.09 | | |
| -1.17 | -2.74 | -1.05 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.29 | 0.11 | 1.95 | | |
| 2.12 | -1.78 | -2.85 | | |
| -2.09 | -1.72 | -0.64 | | |
| 3.14 | 3.47 | 2.4 | | |
| 3.1 | -2.8 | -3.85 | | |
| 3.07 | 1.66 | 0.62 | | |
| -1.36 | -2.42 | -1.39 | | |
| -1.55 | -4.18 | -2.96 | | |
| -1.91 | -4.67 | -3.15 | | |
| -2.08 | -3.37 | -1.73 | | |
| 9.85 | -2.79 | -3.86 | | |
| 2.32 | -2.44 | -1.42 | | |
| 1.93 | -1.67 | -0.39 | | |
| 1.46 | -1.88 | -0.19 | | |
| 1.28 | -3.83 | -1.96 | | |
| 1.22 | -3.89 | -1.95 | | |
| 1.15 | -4.5 | -2.47 | | |
| -1.12 | -5.1 | -2.7 | | |
| 1.95 | 0.15 | -0.92 | | |
| -2.15 | -1.43 | -0.44 | | |
| -2.47 | -2.37 | -1.18 | | |
| -2.65 | -0.84 | 0.46 | | |
| -3.18 | -2.16 | -0.6 | | |
| -3.34 | 0.94 | 2.57 | | |
| -3.4 | -1.36 | 0.3 | | |
| 2.47 | 1.34 | 0.27 | | |
| -1.86 | -3.29 | -2.16 | | |
| 2.04 | 1.56 | 0.49 | | |
| -2.34 | -2.27 | -1.09 | | |
| -2.66 | -2.19 | -0.83 | | |
| -2.9 | -2.26 | -0.77 | | |
| -4.43 | -2.56 | -0.46 | | |
| 2.6 | -1.71 | -2.78 | | |
| 2.6 | 2.53 | 1.46 | | |
| 2.55 | -3.57 | -4.61 | | |
| 1.72 | -5.31 | -6.38 | | |
| -2.75 | -4.58 | -3.42 | | |
| 1.12 | -0.47 | -1.54 | | |
| -3.77 | -0.56 | 0.45 | | |
| -5.51 | -0.15 | 1.41 | | |
| -15.27 | -3.07 | -0.04 | | |
| 1.81 | 0.88 | -0.2 | | |
| -3.34 | -4.95 | -3.43 | | |
| 1.29 | -2.05 | -3.12 | | |
| -3.79 | -4.28 | -3.06 | | |
| -4.05 | -2.61 | -1.29 | | |
| -4.5 | -1.21 | 0.27 | | |
| 1.86 | 1.69 | 0.62 | | |
| -2.62 | -1.89 | -0.68 | | |
| 1.87 | -0.57 | -1.63 | | |
| -2.29 | -1.14 | -0.12 | | |
| -4.68 | -0.62 | 1.44 | | |
| 1.64 | -1.18 | -2.25 | | |
| -2.65 | -0.95 | 0.1 | | |
| 6.18 | 1.02 | -0.05 | | |
| 1.44 | -3.67 | -2.63 | | |
| 1.28 | 0.93 | 2.13 | | |
| 1.25 | -4.15 | -2.91 | | |

| | | | | |
|-------|--------|-------|--|--|
| 1.21 | -0.25 | 1.03 | | |
| 1.18 | -5.02 | -3.71 | | |
| 1.16 | -5.32 | -3.98 | | |
| 1.1 | -2.52 | -1.09 | | |
| 1.09 | -3.39 | -1.96 | | |
| -1.54 | -2.01 | 0.17 | | |
| 1.27 | 1.81 | 0.74 | | |
| -4.08 | 2.1 | 3.41 | | |
| 1.27 | 1.81 | 0.74 | | |
| -4.08 | 2.1 | 3.41 | | |
| 1.82 | 1.94 | 0.87 | | |
| -2.3 | -2.48 | -1.47 | | |
| 1.6 | -0.26 | -1.33 | | |
| 1.53 | -3.8 | -4.81 | | |
| 1.52 | -3.18 | -4.18 | | |
| -2.64 | -2.29 | -1.28 | | |
| -2.97 | -2.67 | -1.5 | | |
| -3.09 | -2.3 | -1.07 | | |
| -3.3 | -3.11 | -1.78 | | |
| 2.05 | 0.09 | -0.98 | | |
| 1.95 | 1.27 | 0.27 | | |
| 2.47 | 0.69 | -0.37 | | |
| -1.79 | -1.12 | -0.04 | | |
| 2.69 | -6.31 | -7.37 | | |
| -1.6 | -5.7 | -4.65 | | |
| -1.86 | -3.01 | -1.75 | | |
| 2.25 | 2.5 | 1.44 | | |
| -2.21 | -0.46 | 0.79 | | |
| -2.31 | -1.68 | -0.36 | | |
| -2.63 | -0.5 | 0.99 | | |
| -3.21 | -1.1 | 0.68 | | |
| 2.92 | -4.59 | -5.66 | | |
| -1.43 | -6.43 | -5.42 | | |
| -1.43 | -3.36 | -2.36 | | |
| -1.47 | -2.26 | -1.23 | | |
| -1.54 | -3.04 | -1.93 | | |
| -1.57 | -2.74 | -1.61 | | |
| -1.58 | -3.17 | -2.02 | | |
| -1.7 | -2.19 | -0.94 | | |
| -1.78 | -2.71 | -1.39 | | |
| -1.85 | -3.95 | -2.57 | | |
| -2.12 | -4.27 | -2.7 | | |
| -2.42 | -4.99 | -3.23 | | |
| -2.66 | -4.88 | -2.98 | | |
| 1.63 | -3.83 | -4.9 | | |
| -3.5 | -5.1 | -3.66 | | |
| 2.29 | -0.09 | -1.15 | | |
| 2.25 | 0.72 | -0.31 | | |
| -1.88 | -1.5 | -0.46 | | |
| -1.95 | -1.73 | -0.64 | | |
| 1.36 | -1.18 | -2.24 | | |
| -4.98 | -6.37 | -4.67 | | |
| 1.59 | -2.72 | -3.78 | | |
| 1.59 | -5.94 | -7 | | |
| -5.67 | -9.22 | -7.11 | | |
| 2.18 | -7.69 | -8.75 | | |
| -1.96 | -10.17 | -9.14 | | |
| -2.68 | -4.82 | -3.33 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.35 | 3.31 | 2.25 | | |
| 1.32 | -0.16 | -1.18 | | |
| 1.81 | 2.26 | 1.2 | | |
| 1.74 | 0.22 | -0.79 | | |
| 1.59 | 3.11 | 2.04 | | |
| -4.2 | -0.94 | 0.74 | | |
| -6.16 | 0.07 | 2.3 | | |
| 2.6 | -1.29 | -2.35 | | |
| -1.84 | -4.29 | -3.09 | | |
| 1.08 | 7.29 | 6.23 | | |
| 1.07 | 0.1 | -0.96 | | |
| -6.22 | -1.99 | -0.3 | | |
| 1.67 | 3.53 | 2.47 | | |
| -3.37 | -1.59 | -0.16 | | |
| 1.76 | -0.84 | -1.91 | | |
| -2.42 | -2.16 | -1.14 | | |
| -2.62 | -0.03 | 1.11 | | |
| -2.82 | -3.07 | -1.82 | | |
| -2.86 | -1 | 0.26 | | |
| -2.87 | -1.18 | 0.09 | | |
| -2.95 | -1.32 | -0.01 | | |
| -3.27 | -2.19 | -0.73 | | |
| -3.62 | -0.49 | 1.11 | | |
| -3.94 | -2.38 | -0.66 | | |
| -4.25 | -1.81 | 0.03 | | |
| -5.68 | -1.68 | 0.57 | | |
| 1.89 | 0.15 | -0.91 | | |
| 1.87 | -1.72 | -2.76 | | |
| 1.81 | -0.77 | -1.77 | | |
| -2.28 | -0.44 | 0.61 | | |
| -4.48 | -1.52 | 0.5 | | |
| 1.37 | 1.61 | 0.55 | | |
| 1.36 | 2.5 | 1.44 | | |
| 1.31 | -2.17 | -3.18 | | |
| 1.85 | -4.43 | -5.49 | | |
| -2.7 | -6.17 | -4.91 | | |
| 2.1 | 2.42 | 1.36 | | |
| -2.64 | -0.1 | 1.31 | | |
| -3.5 | -1.39 | 0.43 | | |
| -3.82 | -2.44 | -0.5 | | |
| 1.72 | -0.39 | -1.45 | | |
| 1.67 | 0.55 | -0.47 | | |
| -2.49 | 0.44 | 1.48 | | |
| -2.72 | -2.79 | -1.63 | | |
| -2.99 | -2.27 | -0.96 | | |
| -3.01 | -2.09 | -0.78 | | |
| 1.42 | 2.34 | 1.28 | | |
| -3.33 | -3.93 | -2.75 | | |
| -4.22 | -2.74 | -1.22 | | |
| -5.2 | -2.92 | -1.1 | | |
| 1.83 | -5.2 | -6.26 | | |
| -2.34 | -3.59 | -2.55 | | |
| -2.36 | -3.88 | -2.83 | | |
| -2.35 | 0.16 | 1.21 | | |
| 1.37 | -1.41 | -2.47 | | |
| -3.1 | -4 | -2.97 | | |
| 1.91 | -2.12 | -3.18 | | |
| -2.4 | -2.8 | -1.65 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4 | -5.32 | -3.44 | | |
| 1.31 | 2.66 | 1.61 | | |
| 1.28 | -1.53 | -2.54 | | |
| 8.37 | 0.87 | -0.19 | | |
| 1.75 | -2.39 | -1.19 | | |
| 1.54 | 0.98 | 2.36 | | |
| 1.46 | -2.18 | -0.71 | | |
| 1.37 | -0.6 | 0.95 | | |
| 1.36 | -3.26 | -1.7 | | |
| 1.36 | 0.48 | 2.05 | | |
| 1.26 | -1.48 | 0.19 | | |
| 1.23 | -2.23 | -0.51 | | |
| 1.21 | -0.12 | 1.62 | | |
| 1.19 | 0.36 | 2.12 | | |
| 1.14 | 0.67 | 2.49 | | |
| 1.14 | 4.4 | 6.23 | | |
| 1.03 | -3.69 | -1.72 | | |
| 1.01 | 1.39 | 3.39 | | |
| -1.01 | -3.16 | -1.14 | | |
| -1.01 | -3.4 | -1.38 | | |
| -1.03 | -0.25 | 1.81 | | |
| -1.13 | 4.07 | 6.25 | | |
| -1.21 | -2.18 | 0.1 | | |
| -1.23 | -1.17 | 1.14 | | |
| -1.23 | -0.02 | 2.29 | | |
| -1.29 | -0.74 | 1.64 | | |
| 2.29 | -6.41 | -7.46 | | |
| -1.84 | -6.18 | -5.17 | | |
| -2.49 | -7.1 | -5.64 | | |
| 2.75 | -1.25 | -2.3 | | |
| 2.74 | -0.13 | -1.18 | | |
| -2.96 | -2.95 | -0.98 | | |
| 1.94 | 0.47 | -0.58 | | |
| 1.9 | -0.33 | -1.36 | | |
| -2.25 | -0.49 | 0.58 | | |
| -2.77 | -1.56 | -0.19 | | |
| 1.36 | -2.21 | -3.26 | | |
| 1.33 | -0.16 | -1.19 | | |
| -3.12 | -5.11 | -4.08 | | |
| 3.17 | -0.63 | -1.69 | | |
| 3.08 | -1.41 | -2.43 | | |
| -1.36 | -3.23 | -2.18 | | |
| -1.38 | -1.6 | -0.53 | | |
| -1.86 | -2.48 | -0.98 | | |
| 3.08 | -1.35 | -2.4 | | |
| -1.58 | -3.07 | -1.84 | | |
| -1.75 | -3.22 | -1.84 | | |
| -2.11 | -3.37 | -1.72 | | |
| -2.39 | -1.52 | 0.31 | | |
| 1.4 | 0.91 | -0.14 | | |
| -3.92 | -3.18 | -1.77 | | |
| -4.93 | -3.24 | -1.51 | | |
| -7.1 | -4.05 | -1.78 | | |
| 1.95 | 2.33 | 1.27 | | |
| -2.17 | -3.43 | -2.41 | | |
| 2.02 | 1.6 | 0.54 | | |
| 1.98 | -0.56 | -1.59 | | |
| -2.79 | 1.85 | 3.29 | | |

| | | | | |
|-------|-------|-------|--|--|
| 2.05 | -0.43 | -1.49 | | |
| -2.17 | -1.05 | 0.05 | | |
| -2.17 | -1.17 | -0.07 | | |
| -2.84 | 2.08 | 3.57 | | |
| 2.03 | 2.45 | 1.4 | | |
| -2.31 | -2.92 | -1.75 | | |
| 2.68 | 0.13 | -0.92 | | |
| -1.57 | -0.86 | 0.17 | | |
| -2.26 | -4.87 | -3.31 | | |
| 30.33 | -0.43 | -1.48 | | |
| 4.61 | -4.58 | -2.91 | | |
| 4.25 | -0.14 | 1.64 | | |
| 2.52 | -0.54 | 2 | | |
| 1.98 | 0.32 | 3.21 | | |
| 10.12 | 1.6 | 0.56 | | |
| 1.93 | 2.02 | 3.36 | | |
| 1.59 | 2.77 | 4.39 | | |
| 1.57 | -0.96 | 0.69 | | |
| 1.57 | 0.33 | 1.98 | | |
| 1.47 | -2.92 | -1.18 | | |
| 1.37 | 2.65 | 4.49 | | |
| 1.28 | -1.29 | 0.64 | | |
| 1.26 | 0.49 | 2.45 | | |
| 1.22 | -1.28 | 0.73 | | |
| 1.16 | -1.33 | 0.75 | | |
| 1.04 | -6.59 | -4.35 | | |
| 1.02 | -0.16 | 2.1 | | |
| 1 | -3.58 | -1.29 | | |
| -1.25 | -3.63 | -1.01 | | |
| -1.41 | -5.93 | -3.14 | | |
| -1.51 | -6.88 | -3.99 | | |
| 1.53 | 0.36 | -0.69 | | |
| -3.08 | -2.36 | -1.17 | | |
| -3.21 | -4.54 | -3.29 | | |
| 1.37 | -4.91 | -5.96 | | |
| 1.32 | 0.5 | -0.5 | | |
| -3.2 | -2.75 | -1.67 | | |
| -3.28 | -4.79 | -3.67 | | |
| -3.54 | -4.17 | -2.94 | | |
| -3.7 | -4.56 | -3.27 | | |
| 3.31 | 0.33 | -0.72 | | |
| -1.35 | -2.14 | -1.04 | | |
| -1.66 | -1.97 | -0.57 | | |
| 3.3 | 0.54 | -0.5 | | |
| -1.31 | 6.15 | 7.21 | | |
| -1.37 | 0.84 | 1.97 | | |
| 2.11 | -1.61 | -2.66 | | |
| 2.07 | -1.37 | -2.39 | | |
| 2.24 | -2.35 | -3.4 | | |
| -2.91 | -6.58 | -4.93 | | |
| 2.14 | -2.48 | -3.53 | | |
| -2.24 | -2.15 | -0.94 | | |
| -2.3 | -0.48 | 0.77 | | |
| 1.36 | 0.3 | -0.76 | | |
| -3.05 | 1.28 | 2.28 | | |
| -3.49 | -0.93 | 0.27 | | |
| -3.58 | -0.56 | 0.67 | | |
| -6.11 | -2.13 | -0.12 | | |

| | | | | |
|-------|-------|-------|--|--|
| 4.12 | -1.65 | -2.7 | | |
| -1.17 | -4.63 | -3.41 | | |
| -1.22 | -5.19 | -3.91 | | |
| -1.27 | -5.06 | -3.72 | | |
| -1.5 | -5.41 | -3.84 | | |
| 2.79 | 1.56 | 0.51 | | |
| -1.54 | -2.97 | -1.92 | | |
| -1.62 | 1.55 | 2.67 | | |
| 1.64 | -1.32 | -2.37 | | |
| 1.62 | -0.89 | -1.92 | | |
| -6.28 | -4.78 | -2.47 | | |
| 1.47 | -1.69 | -2.74 | | |
| -3.73 | -2.5 | -1.1 | | |
| -3.75 | -0.39 | 1.02 | | |
| -4.98 | -1.81 | 0.01 | | |
| 1.59 | -1.01 | -2.06 | | |
| -2.79 | -3.19 | -2.09 | | |
| 1.64 | -0.28 | -1.32 | | |
| 1.64 | -1.79 | -2.82 | | |
| -2.85 | 0.56 | 1.75 | | |
| 1.89 | -1.31 | -2.36 | | |
| -2.55 | -2.43 | -1.2 | | |
| 3.03 | -1.89 | -2.94 | | |
| -2.12 | -7.79 | -6.15 | | |
| -2.15 | -4.65 | -2.99 | | |
| 1.72 | -0.83 | -1.87 | | |
| -2.66 | -4.01 | -2.86 | | |
| 1.65 | -0.96 | -2 | | |
| -2.52 | -2.53 | -1.52 | | |
| 3.04 | 0.78 | -0.26 | | |
| -1.78 | -2.02 | -0.63 | | |
| 8.25 | -2.79 | -3.83 | | |
| 8.19 | 0.94 | -0.09 | | |
| 1.91 | -4.92 | -3.85 | | |
| 1.63 | -3.68 | -2.38 | | |
| 1.55 | -0.21 | 1.16 | | |
| 1.55 | 0.5 | 1.87 | | |
| 1.47 | -1.64 | -0.19 | | |
| 1.3 | -0.51 | 1.11 | | |
| 1.3 | -3.7 | -2.08 | | |
| 1.25 | -3.05 | -1.37 | | |
| 1.09 | -4 | -2.12 | | |
| 6.12 | -1.43 | -2.48 | | |
| 1.34 | -3.46 | -2.31 | | |
| 1.28 | -5.08 | -3.86 | | |
| 1.24 | -4.14 | -2.88 | | |
| 1.2 | -4.2 | -2.9 | | |
| 1.13 | -0.22 | 1.17 | | |
| 1.13 | -4.12 | -2.73 | | |
| 1.11 | -3.71 | -2.29 | | |
| 1.04 | -4.77 | -3.26 | | |
| 1.03 | -1.01 | 0.52 | | |
| -1.01 | 0.86 | 2.44 | | |
| -1.02 | -4.48 | -2.88 | | |
| -1.71 | -1.78 | 0.56 | | |
| -2.1 | -5.36 | -2.73 | | |
| 1.37 | -2.89 | -3.94 | | |
| -3.19 | -3.14 | -2.05 | | |

| | | | | |
|-------|-------|-------|--|--|
| -4.46 | -4 | -2.43 | | |
| 1.04 | -5.8 | -6.84 | | |
| -4.07 | -2.33 | -1.29 | | |
| -5.23 | -3.94 | -2.54 | | |
| 1.79 | -3.8 | -4.84 | | |
| -2.49 | -4.68 | -3.56 | | |
| -3.46 | -3.79 | -2.2 | | |
| 1.14 | -1.62 | -2.66 | | |
| -5.24 | -2.61 | -1.07 | | |
| -5.42 | -1.91 | -0.32 | | |
| 2.07 | 1.03 | -0.01 | | |
| -2.27 | -2.36 | -1.18 | | |
| -3.34 | -1.75 | -0.01 | | |
| 1.75 | -0.8 | -1.85 | | |
| -2.51 | -1.26 | -0.18 | | |
| -2.51 | -1.26 | -0.18 | | |
| -2.52 | -3.4 | -2.31 | | |
| -2.65 | -1.57 | -0.4 | | |
| -2.78 | -2.41 | -1.17 | | |
| -2.91 | -3.12 | -1.82 | | |
| -2.91 | -3.12 | -1.82 | | |
| 1.82 | 0.27 | -0.78 | | |
| -2.83 | -0.91 | 0.41 | | |
| -3.3 | -1.33 | 0.21 | | |
| 1.95 | 2.12 | 1.07 | | |
| 1.9 | -1.49 | -2.5 | | |
| -2.17 | -3.65 | -2.61 | | |
| 1.36 | 2.15 | 1.11 | | |
| -3.51 | -0.8 | 0.42 | | |
| 2.11 | -1.16 | -2.2 | | |
| -2.48 | -4.99 | -3.64 | | |
| 1.38 | 2.15 | 1.11 | | |
| -3.18 | -3.22 | -2.14 | | |
| -4.54 | -2.42 | -0.82 | | |
| 2.25 | -4.76 | -5.8 | | |
| 2.23 | 0.43 | -0.61 | | |
| -1.89 | -2.85 | -1.8 | | |
| -2.16 | -5.1 | -3.87 | | |
| -2.54 | -3.43 | -1.96 | | |
| 1.42 | -0.81 | -1.85 | | |
| 1.39 | -0.21 | -1.22 | | |
| -3.66 | -2.06 | -0.72 | | |
| 7.14 | -0.41 | -1.46 | | |
| 1.41 | -1.85 | -0.55 | | |
| 1.35 | -1.02 | 0.34 | | |
| 1.33 | 1.39 | 2.76 | | |
| 1.33 | 2.06 | 3.44 | | |
| 1.32 | -1.22 | 0.17 | | |
| 1.27 | -2.59 | -1.15 | | |
| 1.21 | -1.66 | -0.14 | | |
| 1.19 | 1.09 | 2.63 | | |
| 1.12 | -0.07 | 1.56 | | |
| 1.08 | -3.62 | -1.94 | | |
| -1.02 | -1.64 | 0.18 | | |
| -1.03 | -2.45 | -0.61 | | |
| -1.08 | 5.3 | 7.2 | | |
| -1.1 | 5.66 | 7.59 | | |
| -1.13 | 2.7 | 4.67 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.18 | -3.36 | -1.33 | | |
| -1.19 | -1.19 | 0.86 | | |
| -1.27 | -0.55 | 1.59 | | |
| -2.5 | -2.89 | 0.22 | | |
| 1.67 | -1.1 | -2.15 | | |
| 1.65 | -0.38 | -1.41 | | |
| 1.35 | -0.96 | -2 | | |
| 1.33 | 0.05 | -0.97 | | |
| -3.15 | 0.86 | 1.9 | | |
| -3.26 | -0.88 | 0.22 | | |
| -4.12 | -0.85 | 0.58 | | |
| -4.26 | -1 | 0.48 | | |
| -11.41 | -2.91 | -0.01 | | |
| 2.97 | -1.06 | -2.1 | | |
| -2.28 | 0.81 | 2.52 | | |
| 1.68 | -0.85 | -1.89 | | |
| -2.83 | -1.04 | 0.16 | | |
| -2.89 | -0.35 | 0.88 | | |
| -3.17 | -2.32 | -0.95 | | |
| -4.52 | -1.88 | 0 | | |
| -4.58 | -1.47 | 0.43 | | |
| 1.76 | 0.02 | -1.02 | | |
| -2.37 | -2.35 | -1.33 | | |
| -2.45 | -1.54 | -0.47 | | |
| -3.26 | -3.78 | -2.3 | | |
| -4.64 | -2.55 | -0.56 | | |
| 1.5 | -2.21 | -3.26 | | |
| 1.48 | -2.43 | -3.45 | | |
| 1.46 | -1.85 | -2.85 | | |
| 1.94 | 0.73 | -0.31 | | |
| -2.15 | 0.04 | 1.07 | | |
| -2.66 | -3.01 | -1.68 | | |
| 2.01 | 2.03 | 0.99 | | |
| -2.1 | -0.49 | 0.55 | | |
| 5.56 | -0.83 | -1.87 | | |
| 1.18 | -2.11 | -0.91 | | |
| 1.16 | 1.09 | 2.32 | | |
| 2.63 | -1.19 | -2.22 | | |
| -1.61 | -5.22 | -4.18 | | |
| -1.67 | -5.6 | -4.5 | | |
| -2.02 | -4.28 | -2.9 | | |
| 2.01 | -4.29 | -5.33 | | |
| 1.98 | 0.32 | -0.69 | | |
| -2.27 | -4.47 | -3.31 | | |
| -2.98 | -5.45 | -3.91 | | |
| 2.84 | 0.65 | -0.39 | | |
| -1.92 | -0.8 | 0.61 | | |
| -2 | 1.09 | 2.56 | | |
| 5.14 | 1.35 | 0.32 | | |
| 5.1 | 1.28 | 0.26 | | |
| 1.24 | -1 | 0.03 | | |
| 1.18 | 0.04 | 1.12 | | |
| -1.09 | -1.47 | -0.01 | | |
| -1.37 | -0.17 | 1.6 | | |
| -1.39 | -2.43 | -0.63 | | |
| 1.6 | -4.62 | -5.66 | | |
| -3.89 | -4.75 | -3.15 | | |
| 1.75 | -2.9 | -3.94 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.5 | -3.86 | -2.76 | | |
| -2.62 | -0.9 | 0.26 | | |
| -3.87 | -3.62 | -1.9 | | |
| 1.26 | 3.09 | 2.06 | | |
| -4.79 | -3.63 | -2.07 | | |
| -6.38 | -3.79 | -1.82 | | |
| 1.79 | -2.6 | -3.64 | | |
| -2.39 | -3 | -1.94 | | |
| -2.48 | -3.06 | -1.96 | | |
| 3.72 | -1.99 | -3.02 | | |
| -1.21 | -3.57 | -2.44 | | |
| -1.36 | -5.55 | -4.24 | | |
| -1.45 | -6.05 | -4.65 | | |
| -2.06 | -3.75 | -1.84 | | |
| 5.03 | -3.01 | -4.05 | | |
| 1.01 | 0.26 | 1.53 | | |
| -1.05 | -2.5 | -1.14 | | |
| -1.06 | 0.91 | 2.28 | | |
| -1.81 | -6.83 | -4.68 | | |
| 1.35 | -0.25 | -1.28 | | |
| -5.76 | -6.22 | -4.29 | | |
| 2.04 | -2.15 | -3.19 | | |
| -2.15 | -0.49 | 0.61 | | |
| -2.52 | -3.71 | -2.39 | | |
| -2.59 | -3.58 | -2.21 | | |
| -3.09 | -2.35 | -0.73 | | |
| 1.91 | 1.11 | 0.08 | | |
| -2.27 | -0.62 | 0.46 | | |
| -2.63 | -1.71 | -0.42 | | |
| 4.41 | 0.61 | -0.43 | | |
| -1.1 | 0.56 | 1.81 | | |
| -1.74 | -2.3 | -0.39 | | |
| 1.43 | 0.1 | -0.94 | | |
| -4.23 | -2.22 | -0.66 | | |
| 1.59 | 1.55 | 0.51 | | |
| -2.87 | 0.05 | 1.2 | | |
| 1.35 | 1.27 | 0.24 | | |
| -3.38 | -1.82 | -0.66 | | |
| 2.66 | 1.83 | 0.79 | | |
| -1.58 | -1.54 | -0.5 | | |
| -1.67 | 0.35 | 1.46 | | |
| -1.7 | 0.74 | 1.88 | | |
| -1.91 | 0.24 | 1.55 | | |
| 1.33 | -1.46 | -2.5 | | |
| 1.3 | 1.51 | 0.51 | | |
| -3.82 | -1.69 | -0.39 | | |
| -3.93 | -2.53 | -1.19 | | |
| 1.33 | -3.41 | -4.44 | | |
| -3.11 | -3.73 | -2.72 | | |
| -3.2 | -5.16 | -4.11 | | |
| -3.41 | -2.65 | -1.5 | | |
| -4.02 | -5.21 | -3.82 | | |
| 1.52 | -0.36 | -1.38 | | |
| -2.79 | -0.5 | 0.56 | | |
| -2.98 | -0.34 | 0.81 | | |
| -3.19 | -1.31 | -0.06 | | |
| 2.39 | -0.8 | -1.83 | | |
| -2.15 | -1.3 | 0.03 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.99 | -0.31 | -1.34 | | |
| -2.07 | -5.6 | -4.59 | | |
| 1.69 | -2.16 | -3.19 | | |
| -2.76 | -4.49 | -3.29 | | |
| 1.62 | 2.37 | 1.35 | | |
| -2.84 | -2.12 | -0.95 | | |
| 3.02 | 1.99 | 0.96 | | |
| -3.4 | -2.87 | -0.54 | | |
| 2.85 | 1.01 | -0.03 | | |
| 2.82 | 1.65 | 0.63 | | |
| -1.68 | -3.02 | -1.79 | | |
| -2.15 | -2.76 | -1.18 | | |
| 1.56 | -1.33 | -2.36 | | |
| 1.54 | -1.69 | -2.7 | | |
| 1.68 | 0.85 | -0.18 | | |
| -4.14 | 0.3 | 2.07 | | |
| 2.08 | 1.26 | 0.23 | | |
| 2.07 | -1.62 | -2.64 | | |
| -2.04 | -0.4 | 0.66 | | |
| -2.84 | 0.08 | 1.62 | | |
| -3.63 | -1.04 | 0.85 | | |
| 1.42 | -1.03 | -2.06 | | |
| -5 | -3.51 | -1.71 | | |
| 2.25 | -0.51 | -1.54 | | |
| -2.13 | -4.87 | -3.64 | | |
| -2.41 | -5.49 | -4.08 | | |
| -2.58 | -5.06 | -3.55 | | |
| 2 | -2.2 | -3.23 | | |
| 1.96 | 2.45 | 1.44 | | |
| -2.11 | -1.89 | -0.84 | | |
| -2.16 | -0.72 | 0.36 | | |
| -3.79 | -2.31 | -0.42 | | |
| 2.14 | 0.56 | -0.47 | | |
| -1.99 | -1.07 | -0.01 | | |
| -2.06 | 1.32 | 2.42 | | |
| -2.43 | -1.47 | -0.12 | | |
| 1.81 | -4.51 | -5.54 | | |
| -3.16 | -5.36 | -3.88 | | |
| -3.19 | -4.18 | -2.68 | | |
| 2.46 | -3.33 | -4.36 | | |
| -1.7 | -4.44 | -3.41 | | |
| -2.39 | -7.1 | -5.58 | | |
| 5.34 | 0.05 | -0.98 | | |
| 1.29 | 1.65 | 2.67 | | |
| 1.26 | 1.08 | 2.15 | | |
| 1.16 | -4.27 | -3.1 | | |
| 1.1 | -3.46 | -2.21 | | |
| 1.11 | -0.11 | 1.14 | | |
| 1.08 | -0.55 | 0.73 | | |
| 1.02 | -0.89 | 0.47 | | |
| -1.09 | -1.43 | 0.08 | | |
| -1.11 | -1.58 | -0.04 | | |
| -1.12 | -0.18 | 1.37 | | |
| -3.42 | -5.44 | -2.27 | | |
| 2.22 | -0.22 | -1.25 | | |
| -2.09 | -1.27 | -0.08 | | |
| 2.38 | -0.29 | -1.32 | | |
| -2.15 | 1 | 2.33 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.38 | 1.95 | 0.92 | | |
| -3.09 | -3.99 | -2.93 | | |
| 2.35 | -0.84 | -1.87 | | |
| 2.34 | 3.01 | 1.99 | | |
| -1.74 | -1.66 | -0.66 | | |
| 3.9 | 0.64 | -0.39 | | |
| -1.05 | 7.12 | 8.12 | | |
| -1.49 | -1.05 | 0.46 | | |
| 2.65 | -3.41 | -4.43 | | |
| -1.81 | -5.79 | -4.55 | | |
| -3.75 | -6.01 | -3.72 | | |
| 1.97 | 1.14 | 0.12 | | |
| 1.98 | 2.39 | 1.36 | | |
| 1.51 | -3.04 | -4.06 | | |
| -3.21 | -5.09 | -3.83 | | |
| 4.86 | -3.22 | -4.24 | | |
| 1.19 | -5.02 | -4.02 | | |
| 1.16 | -4.48 | -3.43 | | |
| 1.09 | -3.21 | -2.08 | | |
| 1.08 | -6.03 | -4.89 | | |
| 1.08 | -1.27 | -0.12 | | |
| 1.07 | -5.08 | -3.92 | | |
| 1.03 | 2.55 | 3.77 | | |
| 1.02 | -6.07 | -4.85 | | |
| 1.02 | -5.66 | -4.44 | | |
| -1.05 | -4.19 | -2.86 | | |
| -1.17 | -3.83 | -2.34 | | |
| -1.19 | -5.99 | -4.48 | | |
| -1.22 | -6.49 | -4.96 | | |
| -1.27 | -4.77 | -3.17 | | |
| -1.34 | -5.68 | -4.01 | | |
| -1.35 | -6.15 | -4.46 | | |
| -1.49 | -4.52 | -2.69 | | |
| -1.53 | -5 | -3.12 | | |
| -1.58 | -3.55 | -1.63 | | |
| -1.64 | -5.97 | -4.01 | | |
| -1.74 | -6.18 | -4.12 | | |
| -2.27 | -5.3 | -2.86 | | |
| 1.76 | -3.42 | -4.44 | | |
| -3.08 | -4.48 | -3.06 | | |
| 1.3 | -1.8 | -2.82 | | |
| -4.19 | -3.86 | -2.44 | | |
| 3.01 | 1.03 | 0.01 | | |
| -1.36 | -1.48 | -0.48 | | |
| -1.5 | 2.13 | 3.29 | | |
| -1.54 | 1 | 2.2 | | |
| -1.89 | -1.45 | 0.04 | | |
| 1.76 | -0.43 | -1.45 | | |
| 1.75 | 0.42 | -0.59 | | |
| 2.38 | -3.26 | -4.28 | | |
| -1.72 | -3.82 | -2.8 | | |
| 1.86 | -0.19 | -1.21 | | |
| -2.27 | -1.68 | -0.62 | | |
| -2.6 | -2.15 | -0.9 | | |
| -2.61 | -1.43 | -0.18 | | |
| 3.7 | -0.31 | -1.33 | | |
| -1.2 | -5.48 | -4.35 | | |
| -1.2 | -5.04 | -3.9 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.59 | -0.45 | -1.47 | | |
| 1.57 | 4.77 | 3.77 | | |
| -3.65 | -2.63 | -1.12 | | |
| 1.45 | -2.6 | -3.62 | | |
| -2.8 | -3.03 | -2.03 | | |
| 2.23 | 1.44 | 0.42 | | |
| -1.83 | -0.08 | 0.93 | | |
| 1.56 | 2.49 | 1.47 | | |
| -3.29 | -3.69 | -2.35 | | |
| 1.91 | -2.98 | -4 | | |
| -2.49 | 0 | 1.23 | | |
| -2.74 | -0.75 | 0.62 | | |
| -3.6 | -3.18 | -1.42 | | |
| -3.7 | -2.62 | -0.82 | | |
| -3.88 | -2.81 | -0.94 | | |
| 1.83 | 1.54 | 0.52 | | |
| -2.7 | -1.91 | -0.63 | | |
| 1.94 | 2.56 | 1.54 | | |
| 1.94 | 2.56 | 1.54 | | |
| -2.39 | -3.29 | -2.1 | | |
| -2.45 | -2.19 | -0.96 | | |
| -2.46 | -5.46 | -4.22 | | |
| -2.85 | -2.15 | -0.7 | | |
| -3.01 | -5.57 | -4.05 | | |
| 1.91 | -2.28 | -3.3 | | |
| -2.15 | -3.4 | -2.38 | | |
| -2.15 | -0.7 | 0.32 | | |
| -2.18 | -2.33 | -1.3 | | |
| -2.98 | -4.21 | -2.72 | | |
| -3.33 | -3.49 | -1.84 | | |
| 4.56 | -4.61 | -5.64 | | |
| -1.04 | -2.1 | -0.88 | | |
| 1.31 | -0.71 | -1.72 | | |
| -3.13 | -3.13 | -2.11 | | |
| -3.22 | -2.72 | -1.66 | | |
| -3.82 | -3.41 | -2.1 | | |
| -4.18 | -3.27 | -1.84 | | |
| -4.31 | -1.94 | -0.46 | | |
| -4.48 | -3.37 | -1.83 | | |
| -4.56 | -3.24 | -1.68 | | |
| -4.77 | -4.8 | -3.18 | | |
| 1.84 | -3.92 | -4.94 | | |
| -2.26 | -2.9 | -1.87 | | |
| 1.86 | -0.72 | -1.75 | | |
| -2.53 | -1.46 | -0.25 | | |
| 1.59 | -1.43 | -2.45 | | |
| 1.58 | -1.15 | -2.16 | | |
| -3.06 | -2.82 | -1.55 | | |
| -3.59 | -3.83 | -2.33 | | |
| 1.01 | -6.32 | -7.34 | | |
| -6.86 | -5.55 | -3.77 | | |
| 1.86 | -0.19 | -1.21 | | |
| -2.27 | -1.68 | -0.62 | | |
| -2.6 | -2.15 | -0.9 | | |
| -2.61 | -1.43 | -0.18 | | |
| 1.73 | -3.26 | -4.27 | | |
| -2.57 | 0.33 | 1.47 | | |
| -2.72 | -0.25 | 0.97 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.76 | -0.44 | -1.46 | | |
| 1.74 | -1.29 | -2.29 | | |
| -2.39 | -0.39 | 0.67 | | |
| 1.32 | -3.57 | -4.58 | | |
| 1.32 | -2.8 | -3.81 | | |
| 1.31 | -4.24 | -5.24 | | |
| 1.93 | 1.16 | 0.14 | | |
| -2.18 | -1.29 | -0.24 | | |
| -2.9 | -3.02 | -1.55 | | |
| 2.14 | -2.9 | -3.92 | | |
| -1.9 | -5.57 | -4.56 | | |
| -1.93 | -4.23 | -3.2 | | |
| -1.93 | 0.33 | 1.36 | | |
| -1.93 | -0.13 | 0.9 | | |
| -1.98 | -4.65 | -3.58 | | |
| -2.04 | -3.13 | -2.02 | | |
| -3.39 | -2.79 | -0.94 | | |
| 1.59 | 2.37 | 1.35 | | |
| -2.62 | -2.86 | -1.81 | | |
| -2.69 | -3.27 | -2.18 | | |
| 2.1 | -4.79 | -5.8 | | |
| -2.04 | -4.3 | -3.21 | | |
| -4.08 | -4.35 | -2.27 | | |
| 2.75 | -3.31 | -4.32 | | |
| -1.65 | -6.32 | -5.14 | | |
| 5.92 | -3.1 | -4.12 | | |
| 1.45 | -4.71 | -3.69 | | |
| 1.41 | -5 | -3.95 | | |
| 1.25 | -0.52 | 0.71 | | |
| -1.12 | -5.17 | -3.47 | | |
| -1.17 | -4.74 | -2.97 | | |
| 5.35 | 0.14 | -0.88 | | |
| 1.29 | 0.81 | 1.84 | | |
| 1.28 | -0.95 | 0.1 | | |
| 1.21 | 0.53 | 1.66 | | |
| 1.18 | -1.88 | -0.72 | | |
| 1.16 | -1.85 | -0.66 | | |
| 1.09 | -0.66 | 0.62 | | |
| 1.06 | -1.68 | -0.36 | | |
| 1.03 | 1.58 | 2.94 | | |
| 1.01 | -1 | 0.4 | | |
| -1.04 | -1.23 | 0.23 | | |
| -1.11 | -2.98 | -1.42 | | |
| 3.4 | -0.94 | -1.96 | | |
| -1.25 | -2.25 | -1.18 | | |
| -1.26 | -2.86 | -1.77 | | |
| -1.48 | -3.11 | -1.79 | | |
| 1.57 | 0.64 | -0.37 | | |
| -3.03 | -0.78 | 0.45 | | |
| -3.35 | -1.25 | 0.13 | | |
| -4.01 | -3.63 | -1.99 | | |
| 2.18 | 3.42 | 2.41 | | |
| -2.48 | -1.49 | -0.07 | | |
| 2.91 | -0.07 | -1.09 | | |
| -1.49 | -3.5 | -2.39 | | |
| 2.28 | -1.17 | -2.18 | | |
| -1.77 | -0.85 | 0.16 | | |
| -1.93 | 0.41 | 1.54 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.15 | -3.21 | -1.92 | | |
| -2.29 | -3.22 | -1.85 | | |
| 1.64 | 5.36 | 4.34 | | |
| -2.49 | -2.14 | -1.12 | | |
| -2.76 | 0.35 | 1.52 | | |
| 1.7 | -2.12 | -3.14 | | |
| -3.12 | -3.55 | -2.16 | | |
| -4.32 | -3.85 | -1.99 | | |
| 1.9 | 2.5 | 1.48 | | |
| -2.45 | -0.76 | 0.44 | | |
| 4.43 | 0.62 | -0.39 | | |
| -1.02 | -6.65 | -5.49 | | |
| -1.55 | -4.76 | -3 | | |
| 1.81 | 1.62 | 0.6 | | |
| -3.15 | -0.33 | 1.17 | | |
| 1.19 | -0.18 | -1.19 | | |
| -3.64 | -4.03 | -2.93 | | |
| 1.55 | -0.12 | -1.13 | | |
| -2.92 | -3.17 | -2 | | |
| -5.84 | -3.87 | -1.7 | | |
| 2.5 | -1.74 | -2.76 | | |
| -1.67 | -5.18 | -4.13 | | |
| -1.91 | -6.96 | -5.72 | | |
| -2.19 | -7.89 | -6.45 | | |
| -4.03 | -6.78 | -4.46 | | |
| -1.02 | -0.1 | -1.12 | | |
| -4.6 | 0.47 | 1.63 | | |
| 2.22 | -3.46 | -4.46 | | |
| -1.82 | -4.11 | -3.1 | | |
| -1.94 | -4.96 | -3.86 | | |
| 2.35 | -5.05 | -6.06 | | |
| -1.79 | -3.94 | -2.88 | | |
| -2.02 | -4.92 | -3.68 | | |
| -2.59 | -3.98 | -2.39 | | |
| 1.94 | -1.23 | -2.23 | | |
| -2.45 | -2.08 | -0.84 | | |
| -3.54 | -5.47 | -3.69 | | |
| 1.34 | -1.43 | -2.44 | | |
| -4.81 | -0.86 | 0.81 | | |
| 2.21 | -1.22 | -2.23 | | |
| -2.38 | -2.72 | -1.33 | | |
| 2.46 | -2.18 | -3.18 | | |
| -1.65 | -2.26 | -1.25 | | |
| -1.74 | -3.74 | -2.65 | | |
| -1.97 | -3.22 | -1.95 | | |
| 3.29 | -5.14 | -6.15 | | |
| -1.23 | -5.41 | -4.4 | | |
| -1.23 | -0.96 | 0.05 | | |
| -1.3 | -5.75 | -4.65 | | |
| -1.36 | -1.69 | -0.54 | | |
| -1.4 | -6.92 | -5.72 | | |
| -1.49 | -5.4 | -4.1 | | |
| -1.69 | -3.58 | -2.11 | | |
| 2.17 | -1.94 | -2.95 | | |
| -1.86 | -4.13 | -3.13 | | |
| -1.9 | -2.53 | -1.5 | | |
| -2.17 | -2.39 | -1.17 | | |
| -4.05 | -4.36 | -2.24 | | |

| | | | | |
|-------|-------|-------|--|--|
| 6.22 | 0.31 | -0.69 | | |
| 1.46 | -0.61 | 0.48 | | |
| 1.39 | -0.17 | 0.99 | | |
| 1.35 | -0.78 | 0.42 | | |
| 1.25 | -1.97 | -0.66 | | |
| 1.17 | 0.83 | 2.24 | | |
| 1.04 | -3.16 | -1.58 | | |
| -1.02 | -1.13 | 0.52 | | |
| -1.53 | -0.28 | 1.96 | | |
| -1.99 | -3.34 | -0.72 | | |
| 3.78 | -4.03 | -5.04 | | |
| -1.09 | -2.3 | -1.28 | | |
| -1.16 | -5.29 | -4.17 | | |
| -1.2 | -2.65 | -1.47 | | |
| 2.04 | -3.62 | -4.62 | | |
| -2.03 | -3.87 | -2.83 | | |
| -2.32 | -5.3 | -4.06 | | |
| -2.78 | -3.8 | -2.29 | | |
| -3.3 | -4.14 | -2.39 | | |
| 1.67 | -6.48 | -7.48 | | |
| -2.45 | -7.46 | -6.43 | | |
| 2.43 | -0.99 | -1.99 | | |
| -3.2 | -3.09 | -1.14 | | |
| 3.25 | 0.3 | -0.71 | | |
| -1.57 | -2.67 | -1.33 | | |
| 1.8 | -1.53 | -2.54 | | |
| -2.82 | 0.97 | 2.31 | | |
| -3.54 | 1.22 | 2.89 | | |
| -4.4 | -1.37 | 0.61 | | |
| -4.82 | 0.16 | 2.28 | | |
| 1.33 | -2.28 | -3.29 | | |
| -3.52 | -3.09 | -1.87 | | |
| 1.47 | -4.69 | -5.69 | | |
| -2.75 | -3.98 | -2.97 | | |
| -3 | -1.64 | -0.5 | | |
| -3.72 | -5.4 | -3.95 | | |
| -4.11 | -3.11 | -1.52 | | |
| 2.32 | -0.7 | -1.71 | | |
| -1.9 | -2.81 | -1.67 | | |
| 1.98 | -0.56 | -1.56 | | |
| -4.77 | -2.58 | -0.35 | | |
| 2.47 | -0.61 | -1.62 | | |
| -1.9 | -2.64 | -1.41 | | |
| 1.18 | 1.66 | 0.66 | | |
| -3.45 | -2.34 | -1.32 | | |
| -4.25 | -2.62 | -1.3 | | |
| -4.64 | -2.86 | -1.41 | | |
| 2.08 | -5.11 | -6.12 | | |
| -1.95 | -2.61 | -1.6 | | |
| -2.1 | -5.28 | -4.16 | | |
| -2.13 | -6.2 | -5.05 | | |
| 2.84 | -2.18 | -3.18 | | |
| -1.43 | -3.81 | -2.78 | | |
| 3.28 | 0.03 | -0.97 | | |
| -1.25 | 0.53 | 1.57 | | |
| -1.27 | -2.17 | -1.1 | | |
| -1.28 | 0.16 | 1.23 | | |
| -1.32 | -4.68 | -3.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.59 | -3.28 | -1.9 | | |
| -1.65 | -0.13 | 1.31 | | |
| -1.77 | -1.73 | -0.19 | | |
| -2 | -3.35 | -1.63 | | |
| -2.51 | -2.21 | -0.18 | | |
| 2.9 | -2.53 | -3.53 | | |
| -1.42 | -5.35 | -4.31 | | |
| -1.62 | -2.84 | -1.61 | | |
| 1.82 | 4.33 | 3.32 | | |
| -2.26 | 0.12 | 1.16 | | |
| -2.6 | -2.12 | -0.87 | | |
| -2.71 | 1.06 | 2.37 | | |
| -3.66 | -1.81 | -0.07 | | |
| -3.72 | -3.07 | -1.31 | | |
| 2.97 | 0.19 | -0.81 | | |
| -1.39 | 0.39 | 1.44 | | |
| -1.4 | -1.56 | -0.5 | | |
| 1.65 | 1.62 | 0.61 | | |
| -2.52 | -1.09 | -0.03 | | |
| -3.06 | -1.08 | 0.25 | | |
| 1.3 | -0.64 | -1.64 | | |
| -3.21 | -1.03 | 0.03 | | |
| 22.73 | 0.88 | -0.12 | | |
| 5.3 | -0.62 | 0.48 | | |
| 4.08 | -1.49 | -0.01 | | |
| 3.83 | -5.19 | -3.62 | | |
| 1.64 | -6.5 | -3.71 | | |
| 1.56 | -3.85 | -0.98 | | |
| 1.18 | -6.52 | -3.26 | | |
| -1.16 | -7.35 | -3.63 | | |
| 1.74 | 0.95 | -0.06 | | |
| -2.49 | 0.57 | 1.68 | | |
| -3.48 | -1.97 | -0.38 | | |
| 2.42 | -0.81 | -1.81 | | |
| 2.42 | -4.28 | -5.28 | | |
| -1.8 | -4.66 | -3.54 | | |
| -1.82 | -3.8 | -2.67 | | |
| -1.89 | -4.12 | -2.93 | | |
| 3.2 | -0.13 | -1.13 | | |
| -1.48 | -1.1 | 0.14 | | |
| -2.12 | 0.71 | 2.47 | | |
| 3.37 | -2.05 | -3.05 | | |
| -1.41 | -5.55 | -4.3 | | |
| 1.51 | 0.87 | -0.13 | | |
| -5.08 | -4.18 | -2.24 | | |
| 18.42 | -0.28 | -1.28 | | |
| 1.32 | -2.05 | 0.75 | | |
| 1.68 | -1.32 | -2.32 | | |
| -4.07 | -4.58 | -2.81 | | |
| 1.69 | 0.41 | -0.59 | | |
| -2.84 | -3.55 | -2.29 | | |
| -3.29 | -1.96 | -0.49 | | |
| 1.5 | 0.96 | -0.04 | | |
| -3.22 | -0.79 | 0.49 | | |
| -12.53 | -2.04 | 1.19 | | |
| 1.69 | -1.5 | -2.5 | | |
| -3.81 | -3.53 | -1.84 | | |
| 1.85 | 1.73 | 0.73 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.73 | -3.28 | -1.94 | | |
| 1.01 | -6.53 | -7.53 | | |
| -6.86 | -5.76 | -3.96 | | |
| 1.01 | -6.53 | -7.53 | | |
| -6.86 | -5.76 | -3.96 | | |
| -1.21 | -1.35 | -0.35 | | |
| -1.21 | -1.93 | -0.92 | | |
| -1.26 | -2.58 | -1.51 | | |
| -1.26 | -2.41 | -1.34 | | |
| -1.29 | -3.74 | -2.64 | | |
| -1.31 | -2.86 | -1.74 | | |
| -1.38 | -5.51 | -4.31 | | |
| -1.39 | -2.31 | -1.1 | | |
| -1.5 | -1.56 | -0.24 | | |
| -1.57 | -4.99 | -3.61 | | |
| -1.61 | -3.69 | -2.26 | | |
| -1.69 | -4.64 | -3.15 | | |
| -1.2 | 1.77 | 2.77 | | |
| -1.21 | -0.33 | 0.67 | | |
| -1.3 | -1.46 | -0.35 | | |
| -1.3 | -1.79 | -0.68 | | |
| -1.32 | 3.95 | 5.08 | | |
| -1.51 | 2.55 | 3.88 | | |
| -1.57 | -1.73 | -0.34 | | |
| -1.58 | 2.62 | 4.01 | | |
| -1.77 | 0.78 | 2.33 | | |
| -2.21 | 0.05 | 1.93 | | |
| -2.74 | -0.2 | 1.99 | | |
| -1.03 | 1.06 | 2.06 | | |
| -1.03 | -0.4 | 0.61 | | |
| -1.08 | 0.31 | 1.38 | | |
| -1.09 | -2.68 | -1.6 | | |
| -1.17 | 0.1 | 1.29 | | |
| -1.3 | 1.43 | 2.77 | | |
| -2.8 | 0.42 | 1.42 | | |
| -2.82 | -5.37 | -4.36 | | |
| -3.35 | 0 | 1.26 | | |
| -3.49 | -3.56 | -2.25 | | |
| -3.68 | -2.18 | -0.79 | | |
| -4.94 | -1.61 | 0.21 | | |
| -5.67 | -1.62 | 0.4 | | |
| 1.14 | -1.42 | -0.41 | | |
| 1.13 | -0.27 | 0.75 | | |
| 1.1 | -1.92 | -0.87 | | |
| 1.08 | 2.82 | 3.9 | | |
| 1.08 | -3.06 | -1.98 | | |
| 1.07 | -2.66 | -1.57 | | |
| 1.06 | -6.86 | -5.75 | | |
| 1.04 | -2.3 | -1.17 | | |
| 1.03 | -3.67 | -2.52 | | |
| -1.05 | -2.36 | -1.1 | | |
| -1.09 | -2.8 | -1.48 | | |
| -1.12 | -5.49 | -4.14 | | |
| -1.16 | -6.84 | -5.43 | | |
| -1.33 | -2.85 | -1.25 | | |
| -1.38 | -6.23 | -4.58 | | |
| -2.02 | -0.89 | 0.11 | | |
| -2.04 | -2.97 | -1.96 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.13 | 0.58 | 1.65 | | |
| -2.19 | -2.78 | -1.66 | | |
| -2.29 | -0.48 | 0.7 | | |
| -2.49 | -1.66 | -0.36 | | |
| -1.04 | 3.71 | 4.71 | | |
| -1.05 | -0.92 | 0.09 | | |
| -1.2 | -2.13 | -0.92 | | |
| -1 | 6.33 | 7.32 | | |
| -1.02 | -3.38 | -2.36 | | |
| -1.02 | 5.57 | 6.59 | | |
| -1.05 | 3.33 | 4.39 | | |
| -1.06 | 5.33 | 6.41 | | |
| -1.09 | -4.33 | -3.22 | | |
| -1.09 | 4.45 | 5.57 | | |
| -1.1 | -0.18 | 0.95 | | |
| -1.14 | -3.39 | -2.21 | | |
| -1.16 | -1.3 | -0.09 | | |
| -1.21 | -4.01 | -2.75 | | |
| -1.27 | -3.76 | -2.42 | | |
| -1.41 | -2.87 | -1.38 | | |
| -1.43 | 0.01 | 1.52 | | |
| -1.76 | -3.36 | -1.56 | | |
| -1.82 | -3.77 | -1.91 | | |
| -1.03 | 2.23 | 3.24 | | |
| -1.04 | 1.66 | 2.67 | | |
| -1.06 | 1.31 | 2.37 | | |
| -1.97 | -0.89 | 0.11 | | |
| -1.99 | -1.62 | -0.6 | | |
| -2.44 | -4.2 | -2.89 | | |
| -3.36 | -2.39 | -0.63 | | |
| -9.37 | -2.39 | 0.86 | | |
| -2.27 | -2.64 | -1.64 | | |
| -2.3 | -1.92 | -0.89 | | |
| -2.34 | -0.62 | 0.43 | | |
| -2.5 | -1.69 | -0.55 | | |
| -2.6 | -1.1 | 0.1 | | |
| -3.15 | -4.26 | -2.78 | | |
| -4.8 | -4.09 | -2 | | |
| -1.11 | -3.62 | -2.61 | | |
| -1.13 | 1.01 | 2.03 | | |
| -1.14 | 4.25 | 5.28 | | |
| -1.21 | -4.66 | -3.54 | | |
| -1.35 | -3.24 | -1.96 | | |
| -1.44 | 0.33 | 1.7 | | |
| -1.68 | -1.8 | -0.21 | | |
| -2.01 | -0.14 | 1.71 | | |
| -1.14 | -3.25 | -2.26 | | |
| -1.16 | -5.15 | -4.13 | | |
| -1.17 | -6.26 | -5.23 | | |
| -1.35 | -4.34 | -3.1 | | |
| -1.57 | -5.61 | -4.15 | | |
| -1.85 | -5.08 | -3.38 | | |
| -1.4 | -0.19 | 0.81 | | |
| -1.43 | -0.28 | 0.75 | | |
| -1.97 | 0.23 | 1.23 | | |
| -2.01 | 2.75 | 3.77 | | |
| 1.01 | -1.15 | -0.15 | | |
| -1.01 | -4.42 | -3.4 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.19 | -1.77 | -0.51 | | |
| -1.92 | -1.26 | -0.26 | | |
| -1.97 | -1.59 | -0.55 | | |
| -2.48 | -1.64 | -0.28 | | |
| -3 | -3.26 | -1.61 | | |
| -3.04 | -2.65 | -0.99 | | |
| -3.63 | -1.77 | 0.14 | | |
| -2.23 | -2.14 | -1.14 | | |
| -2.28 | -3.78 | -2.75 | | |
| -2.33 | -4.09 | -3.03 | | |
| -2.4 | -1.55 | -0.45 | | |
| -2.42 | -3.3 | -2.18 | | |
| 1.79 | -3.08 | -2.08 | | |
| 1.74 | -3.14 | -2.09 | | |
| 1.58 | -2.91 | -1.73 | | |
| 1.56 | -0.85 | 0.36 | | |
| 1.49 | -3.3 | -2.04 | | |
| 1.42 | 0.32 | 1.65 | | |
| 1.42 | -2.67 | -1.34 | | |
| 1.35 | -4.98 | -3.57 | | |
| 1.25 | 0.05 | 1.57 | | |
| 1.18 | -3.66 | -2.05 | | |
| 1.14 | -3.98 | -2.33 | | |
| 1.11 | -2.02 | -0.32 | | |
| 1.07 | -3.72 | -1.98 | | |
| 1.03 | -1.85 | -0.05 | | |
| -1.07 | -3.23 | -1.29 | | |
| -1.4 | -4.41 | -2.09 | | |
| -1.32 | -4.87 | -3.87 | | |
| -1.36 | -6.46 | -5.41 | | |
| -1.56 | 0.38 | 1.62 | | |
| -1.57 | -3.83 | -2.57 | | |
| -1.86 | 0.03 | 1.52 | | |
| -1.18 | -4.56 | -3.57 | | |
| -1.23 | -0.61 | 0.45 | | |
| -1.24 | -3.57 | -2.51 | | |
| -1.34 | -2.99 | -1.81 | | |
| -1.67 | -2.43 | -0.93 | | |
| 1.54 | -6.09 | -5.09 | | |
| 1.48 | -2.91 | -1.86 | | |
| 1.47 | -4.7 | -3.64 | | |
| 1.3 | -6.25 | -5.01 | | |
| 1.3 | -3.68 | -2.44 | | |
| 1.23 | -4.59 | -3.28 | | |
| 1.18 | -2.06 | -0.68 | | |
| 1.08 | -4.18 | -2.68 | | |
| 1.07 | -2.99 | -1.47 | | |
| -1.12 | -4.87 | -3.09 | | |
| -1.25 | -5.12 | -3.18 | | |
| 1.19 | -4.23 | -3.23 | | |
| 1.13 | -4.63 | -3.56 | | |
| 1.12 | -2.55 | -1.47 | | |
| -1.2 | -7.68 | -6.16 | | |
| -1.4 | -6.88 | -5.15 | | |
| -1.64 | -1.04 | -0.04 | | |
| -1.72 | -1.63 | -0.56 | | |
| -1.74 | -3.4 | -2.32 | | |
| -1.75 | -3.45 | -2.36 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.74 | -2.66 | -1.66 | | |
| -1.84 | -4.22 | -3.14 | | |
| -1.88 | -1.47 | -0.36 | | |
| -1.89 | -3.08 | -1.95 | | |
| -1.95 | -0.14 | 1.03 | | |
| -2.16 | -4.39 | -3.07 | | |
| -2.24 | -5.96 | -4.6 | | |
| -2.8 | -6.64 | -4.95 | | |
| -2.88 | -4.45 | -2.72 | | |
| -3.13 | -5.47 | -3.62 | | |
| -3.37 | -3.79 | -1.83 | | |
| -3.4 | -4.45 | -2.48 | | |
| -3.55 | -5.05 | -3.02 | | |
| -1.91 | -3.76 | -2.76 | | |
| -2.03 | -3.55 | -2.46 | | |
| -2.03 | -1.74 | -0.75 | | |
| -2.17 | -4.42 | -3.32 | | |
| -2.76 | -5.02 | -3.58 | | |
| -1.98 | -1.42 | -0.42 | | |
| -2.12 | 0.5 | 1.6 | | |
| -2.31 | -1.26 | -0.04 | | |
| -2.39 | -1.97 | -0.7 | | |
| -1.21 | -7.98 | -6.98 | | |
| -1.3 | -5.84 | -4.73 | | |
| 1.68 | 1.09 | 2.09 | | |
| 1.56 | -2.24 | -1.12 | | |
| 1.5 | -2.73 | -1.56 | | |
| 1.49 | -0.99 | 0.18 | | |
| 1.43 | -1.79 | -0.55 | | |
| 1.41 | -3.37 | -2.12 | | |
| 1.34 | -4 | -2.68 | | |
| 1.28 | -2.06 | -0.67 | | |
| 1.2 | -0.5 | 0.99 | | |
| 1.18 | 0.47 | 1.98 | | |
| 1.13 | -0.55 | 1.02 | | |
| -1.01 | -2.3 | -0.53 | | |
| -1.02 | -1.66 | 0.12 | | |
| -1.33 | 4.41 | 6.57 | | |
| -1.71 | -3.83 | -1.31 | | |
| -1.35 | -0.84 | 0.16 | | |
| -1.46 | -3.2 | -2.08 | | |
| -1.75 | -2.88 | -1.51 | | |
| 1.73 | -0.77 | 0.23 | | |
| 1.6 | -5.48 | -4.36 | | |
| 1.57 | -4.35 | -3.21 | | |
| 1.45 | -1.47 | -0.22 | | |
| 1.18 | -5.44 | -3.89 | | |
| 1.16 | -5.19 | -3.61 | | |
| 1.1 | -2.11 | -0.46 | | |
| 1.05 | -4.61 | -2.89 | | |
| 1.03 | -2.35 | -0.6 | | |
| 1 | -4.1 | -2.31 | | |
| -1.08 | -3.08 | -1.18 | | |
| -1.1 | -4.4 | -2.48 | | |
| -1.11 | -0.47 | 1.47 | | |
| -1.3 | -1.6 | 0.57 | | |
| -1.28 | -1.21 | -0.21 | | |
| -1.38 | 1.47 | 2.58 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.62 | -0.67 | 0.68 | | |
| -1.66 | 0.19 | 1.57 | | |
| -1.7 | -0.7 | 0.71 | | |
| -2.43 | 2.93 | 4.86 | | |
| -1.41 | 1.92 | 2.92 | | |
| -1.54 | -6.16 | -5.03 | | |
| -2.14 | -3.83 | -2.83 | | |
| -2.34 | -0.65 | 0.48 | | |
| -2.85 | -0.06 | 1.36 | | |
| -3.25 | -1.84 | -0.23 | | |
| -1.24 | -5.6 | -4.59 | | |
| -1.4 | -6.27 | -5.1 | | |
| -1.44 | -4.04 | -2.82 | | |
| -1.01 | -8.79 | -7.78 | | |
| -1.13 | -6.96 | -5.8 | | |
| -1.38 | -4.83 | -3.39 | | |
| -4.66 | -3.08 | -2.08 | | |
| -5.26 | -4.19 | -3.01 | | |
| -9.65 | -4.36 | -2.3 | | |
| -13.37 | -6.28 | -3.76 | | |
| -1.95 | -5.58 | -4.58 | | |
| -2.22 | -2.2 | -1.02 | | |
| -2.59 | -2.87 | -1.87 | | |
| -2.94 | -2.79 | -1.61 | | |
| -6.21 | -3.61 | -1.35 | | |
| 1.37 | -1.73 | -0.73 | | |
| 1.21 | -2.89 | -1.7 | | |
| 1.1 | -0.16 | 1.15 | | |
| 1.1 | -2.61 | -1.29 | | |
| 1.05 | -3.01 | -1.63 | | |
| -1.05 | -0.03 | 1.51 | | |
| -1.14 | 1.24 | 2.88 | | |
| -1.34 | -2.93 | -1.05 | | |
| -2.27 | -3.97 | -2.97 | | |
| -2.59 | -4.42 | -3.23 | | |
| -2.76 | -5.47 | -4.19 | | |
| -2.83 | -1.83 | -0.52 | | |
| -1.12 | -2.36 | -1.36 | | |
| -1.3 | -4.14 | -2.92 | | |
| 1.09 | 0.56 | 1.56 | | |
| -1.09 | 4.58 | 5.82 | | |
| -1.38 | -4.44 | -2.85 | | |
| -1.43 | -3.1 | -1.47 | | |
| -1.6 | -4.71 | -2.91 | | |
| -1.13 | -3.9 | -2.9 | | |
| -1.33 | -5.81 | -4.58 | | |
| -1.38 | -6.78 | -5.49 | | |
| -1.41 | -6.3 | -4.97 | | |
| 3.48 | -0.32 | 0.68 | | |
| 2.88 | -1.11 | 0.16 | | |
| 2.81 | 0.09 | 1.4 | | |
| 2.19 | -3.26 | -1.59 | | |
| 2.15 | -3.61 | -1.91 | | |
| 2.07 | -3.3 | -1.55 | | |
| 1.93 | -3.22 | -1.37 | | |
| 1.84 | -3.27 | -1.36 | | |
| 1.54 | -3.19 | -1.01 | | |
| 1.42 | -0.08 | 2.22 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.41 | -0.22 | 2.08 | | |
| 1.11 | -2.19 | 0.46 | | |
| 1.05 | -3.98 | -1.25 | | |
| 1.04 | -3.56 | -0.81 | | |
| -1.05 | 5.79 | 8.66 | | |
| 3.34 | 0.17 | 1.17 | | |
| 2.75 | -0.96 | 0.32 | | |
| 2 | 0.71 | 2.45 | | |
| 1.33 | -2.5 | -0.17 | | |
| -1.01 | -1.21 | 1.55 | | |
| -1.76 | -4.36 | -3.35 | | |
| -2.14 | -6.69 | -5.4 | | |
| -2.38 | -6.05 | -4.6 | | |
| -2.45 | -5.75 | -4.27 | | |
| -1.1 | -2.61 | -1.61 | | |
| -1.37 | 1.23 | 2.54 | | |
| -1.91 | -4.24 | -2.46 | | |
| -2.03 | -3.56 | -2.57 | | |
| -2.65 | -0.68 | 0.69 | | |
| -2.36 | -2.15 | -1.15 | | |
| -3.12 | -4.96 | -3.55 | | |
| -2.16 | -2.16 | -1.16 | | |
| -2.87 | -2.03 | -0.61 | | |
| -3.03 | -2.05 | -0.56 | | |
| -3.08 | -0.96 | 0.55 | | |
| -3.53 | -0.87 | 0.84 | | |
| -5.67 | -2.92 | -0.53 | | |
| -8.31 | -2.6 | 0.35 | | |
| -14.45 | -3.26 | 0.48 | | |
| -1.44 | -2.07 | -1.07 | | |
| -2.07 | -2.45 | -0.93 | | |
| -2.36 | 1.57 | 2.57 | | |
| -7.19 | -2.38 | 0.23 | | |
| -8.13 | -2.35 | 0.44 | | |
| 12.67 | -1.56 | -0.56 | | |
| 1.87 | -4.59 | -0.83 | | |
| -1.78 | -1.33 | -0.33 | | |
| -2.57 | 0.11 | 1.64 | | |
| -1.11 | 4.29 | 5.29 | | |
| -1.17 | 2.12 | 3.2 | | |
| -2.14 | -0.26 | 0.74 | | |
| -2.38 | 0.5 | 1.66 | | |
| -1.38 | -2.16 | -1.16 | | |
| -1.38 | -1.94 | -0.95 | | |
| -1.68 | 0.34 | 1.34 | | |
| -2.02 | 0.71 | 1.97 | | |
| -2.22 | -0.57 | 0.83 | | |
| -2.53 | 1.18 | 2.78 | | |
| -1.14 | 0.91 | 1.91 | | |
| -2.51 | -2.08 | 0.06 | | |
| 1.01 | -1.76 | -0.76 | | |
| -2.76 | -0.83 | 1.65 | | |
| -1.91 | -2.22 | -1.22 | | |
| -2.13 | -2.16 | -1 | | |
| -2.26 | -1.11 | 0.13 | | |
| -3.88 | -1.73 | 0.29 | | |
| -2.13 | -1.57 | -0.57 | | |
| -2.63 | -3.34 | -2.04 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.06 | 5.15 | 6.15 | | |
| -1.23 | -1.54 | -0.33 | | |
| -1.41 | -2.02 | -0.6 | | |
| -1.95 | -2.02 | -0.14 | | |
| -2.15 | -3.76 | -2.76 | | |
| -3.13 | -2.09 | -0.54 | | |
| -2.02 | -1.56 | -0.56 | | |
| -3.76 | -2.04 | -0.14 | | |
| -2.15 | -3.76 | -2.76 | | |
| -3.13 | -2.09 | -0.54 | | |
| -2.02 | -1.56 | -0.56 | | |
| -3.76 | -2.04 | -0.14 | | |
| -1.89 | 0.63 | 1.64 | | |
| -4.33 | -0.39 | 1.8 | | |
| 1.03 | -0.67 | 0.34 | | |
| -1.03 | -4.94 | -3.85 | | |
| -1.19 | -5.66 | -4.36 | | |
| -1.24 | -4.96 | -3.6 | | |
| -1.41 | -5.03 | -4.02 | | |
| -1.42 | -6.52 | -5.5 | | |
| -1.43 | -2.28 | -1.24 | | |
| -1.43 | -5.3 | -4.26 | | |
| -1.46 | -3.39 | -2.33 | | |
| -1.48 | -6.8 | -5.71 | | |
| -1.48 | -3.88 | -2.8 | | |
| -1.51 | -5.21 | -4.09 | | |
| -1.58 | -6.32 | -5.14 | | |
| -1.6 | -3.9 | -2.71 | | |
| -1.66 | -5.33 | -4.08 | | |
| -1.74 | -5.54 | -4.23 | | |
| -1.75 | -4.52 | -3.19 | | |
| -1.81 | -9.03 | -7.66 | | |
| -1.94 | -6.93 | -5.45 | | |
| -1.95 | -2.76 | -1.27 | | |
| -2.12 | -6.1 | -4.5 | | |
| -2.17 | -5.27 | -3.63 | | |
| -2.28 | -6.42 | -4.71 | | |
| -2.33 | -8.14 | -6.4 | | |
| -2.37 | -6.88 | -5.12 | | |
| -2.5 | -6.64 | -4.8 | | |
| -2.52 | -6.23 | -4.38 | | |
| -2.79 | -3.88 | -1.88 | | |
| -3.44 | -7.61 | -5.31 | | |
| -4.22 | -6.95 | -4.35 | | |
| -2.35 | -0.7 | 0.3 | | |
| -2.38 | -0.14 | 0.89 | | |
| -2.41 | -2.54 | -1.49 | | |
| -2.45 | -0.09 | 0.98 | | |
| -2.47 | -1.09 | -0.02 | | |
| -2.56 | -1.45 | -0.32 | | |
| -2.66 | 0.17 | 1.35 | | |
| -2.69 | -1.97 | -0.77 | | |
| -2.84 | -2.02 | -0.74 | | |
| -4.18 | -1.99 | -0.15 | | |
| -4.53 | -3.2 | -1.25 | | |
| -4.54 | -2.8 | -0.84 | | |
| -4.65 | -2.42 | -0.42 | | |
| -2.08 | 0.99 | 2 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.16 | -0.82 | 0.25 | | |
| -2.48 | -1.79 | -0.54 | | |
| -2.47 | 0.69 | 1.94 | | |
| -2.98 | -3.1 | -1.57 | | |
| -1.16 | -2.38 | -1.37 | | |
| -1.16 | -2.14 | -1.13 | | |
| -1.25 | -2.34 | -1.23 | | |
| -1.27 | -3.06 | -1.92 | | |
| -1.48 | -4.6 | -3.24 | | |
| -1.51 | -2.23 | -0.84 | | |
| 1.1 | -1.04 | -0.03 | | |
| 1.08 | 3.6 | 4.64 | | |
| 1.05 | 0.53 | 1.6 | | |
| 1.03 | -2.12 | -1.02 | | |
| 1.01 | 1.89 | 3.02 | | |
| -1.03 | 0.1 | 1.29 | | |
| -1.05 | -0.37 | 0.85 | | |
| -1.08 | -1.39 | -0.13 | | |
| -1.1 | 1.51 | 2.79 | | |
| -1.11 | -0.38 | 0.92 | | |
| -1.2 | 0.08 | 1.49 | | |
| -1.59 | -0.73 | 1.08 | | |
| -1.09 | -4.73 | -3.72 | | |
| -1.1 | -4.05 | -3.04 | | |
| -1.12 | -3.81 | -2.77 | | |
| -1.26 | -1.63 | -0.41 | | |
| -1.51 | -5.57 | -4.1 | | |
| -1.52 | -6.27 | -4.78 | | |
| -1.55 | -6.64 | -5.12 | | |
| -1.6 | -4.53 | -2.98 | | |
| -1.71 | -4.03 | -2.38 | | |
| -1.71 | -6.21 | -4.55 | | |
| -2.08 | -4.72 | -2.78 | | |
| -1.32 | 0.53 | 1.54 | | |
| -1.36 | 0.94 | 1.98 | | |
| -2.19 | -0.98 | 0.75 | | |
| 1.12 | -5.17 | -4.16 | | |
| 1.1 | -2.76 | -1.73 | | |
| 1.02 | -2.92 | -1.78 | | |
| -1.16 | -5.75 | -4.37 | | |
| -1.86 | 1.23 | 3.3 | | |
| -2.07 | -1.64 | -0.63 | | |
| -2.12 | -3.18 | -2.13 | | |
| -2.13 | -2.49 | -1.43 | | |
| -2.14 | -0.26 | 0.8 | | |
| -2.14 | -1.59 | -0.54 | | |
| -2.14 | -2.2 | -1.14 | | |
| -2.17 | -0.3 | 0.78 | | |
| -2.31 | -1.27 | -0.11 | | |
| -2.36 | 1.68 | 2.88 | | |
| -2.73 | -1.69 | -0.28 | | |
| -2.75 | -1.67 | -0.25 | | |
| -2.78 | -1.28 | 0.15 | | |
| -2.94 | 0.5 | 2.02 | | |
| -2.98 | -2.2 | -0.66 | | |
| -6.3 | -0.56 | 2.06 | | |
| 1.15 | 0.38 | 1.39 | | |
| -1.03 | 0.48 | 1.72 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.04 | -1.23 | 0.03 | | |
| -1.1 | -1.71 | -0.37 | | |
| 1.23 | -0.86 | 0.15 | | |
| 1.2 | 0.15 | 1.19 | | |
| 1.2 | -2.67 | -1.63 | | |
| 1.17 | -3.97 | -2.89 | | |
| 1.15 | -1.27 | -0.17 | | |
| 1.14 | -0.98 | 0.13 | | |
| 1.12 | -2.86 | -1.73 | | |
| 1.09 | -2.82 | -1.65 | | |
| 1.07 | -0.03 | 1.17 | | |
| 1.05 | 1 | 2.24 | | |
| -1.01 | -4.68 | -3.37 | | |
| -1.02 | -2.82 | -1.49 | | |
| -1.24 | 1.31 | 2.93 | | |
| -1.27 | 3.65 | 5.29 | | |
| -1.27 | -3.72 | -2.08 | | |
| -2.53 | -4.88 | -2.24 | | |
| -1.06 | -0.74 | 0.27 | | |
| -1.08 | -4.61 | -3.57 | | |
| -1.09 | -2.57 | -1.52 | | |
| -1.1 | -3.16 | -2.1 | | |
| -1.15 | -4 | -2.88 | | |
| -1.16 | -5.14 | -4.01 | | |
| -1.27 | -5.27 | -4 | | |
| -1.6 | -4.52 | -2.93 | | |
| -5.9 | -3.35 | -2.34 | | |
| -12.08 | -1.56 | 0.48 | | |
| -12.48 | -0.21 | 1.87 | | |
| -2.04 | -0.16 | 0.85 | | |
| -2.23 | -2.66 | -1.52 | | |
| -2.49 | 0.25 | 1.54 | | |
| -2.56 | -2.8 | -1.79 | | |
| -2.56 | -3.99 | -2.99 | | |
| -2.69 | -3.55 | -2.47 | | |
| -2.9 | -4.4 | -3.21 | | |
| -3.84 | -4.75 | -3.16 | | |
| -1.67 | -1.49 | -0.48 | | |
| -1.73 | -2.23 | -1.18 | | |
| -1.82 | -3.8 | -2.67 | | |
| -2.07 | -4.01 | -2.69 | | |
| -1.3 | 1.35 | 2.36 | | |
| -1.53 | -2.65 | -1.4 | | |
| -1.66 | -5.32 | -3.96 | | |
| -2.84 | -2.03 | -1.02 | | |
| -3.36 | -2.21 | -0.96 | | |
| -3.56 | -3.79 | -2.45 | | |
| -1.52 | 6.36 | 7.37 | | |
| -2.16 | -0.66 | 0.86 | | |
| 1.08 | 0.86 | 1.86 | | |
| -1.2 | -5.46 | -4.09 | | |
| -1.94 | -2.45 | -1.44 | | |
| -2.07 | -4.81 | -3.71 | | |
| -2.17 | -4.4 | -3.24 | | |
| -2.63 | -2.81 | -1.37 | | |
| -1.37 | -0.37 | 0.64 | | |
| -1.42 | -3.86 | -2.8 | | |
| -1.43 | -4.33 | -3.26 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.53 | -3.91 | -2.75 | | |
| -1.53 | -2.75 | -1.58 | | |
| -2.11 | -4.13 | -2.5 | | |
| -1.28 | 3.68 | 4.69 | | |
| -1.35 | -0.39 | 0.69 | | |
| -1.48 | -2.3 | -1.29 | | |
| -1.49 | -2.61 | -1.59 | | |
| -1.51 | -1.94 | -0.89 | | |
| -1.53 | -4.5 | -3.43 | | |
| -1.55 | -2.76 | -1.68 | | |
| -1.55 | -4.5 | -3.42 | | |
| -1.58 | -3.15 | -2.04 | | |
| -1.58 | -3.86 | -2.76 | | |
| -1.61 | -4.31 | -3.18 | | |
| -1.67 | -6.44 | -5.25 | | |
| -1.75 | -3.52 | -2.26 | | |
| -1.82 | -1.18 | 0.13 | | |
| -1.89 | -4.36 | -2.99 | | |
| -1.96 | -3.95 | -2.53 | | |
| -2.13 | -6.39 | -4.85 | | |
| -2.2 | -3.47 | -1.88 | | |
| -2.36 | -6.01 | -4.32 | | |
| -1.72 | -3.72 | -2.71 | | |
| -3.27 | -6.57 | -4.65 | | |
| -1.71 | 3.51 | 4.52 | | |
| -1.97 | 0.17 | 1.38 | | |
| -2.5 | -0.94 | 0.61 | | |
| -1.38 | -2.93 | -1.93 | | |
| -1.42 | -2.7 | -1.65 | | |
| -1.12 | -2.01 | -1 | | |
| -1.13 | -3.87 | -2.85 | | |
| -1.17 | -5.81 | -4.73 | | |
| -1.21 | -4.07 | -2.95 | | |
| -1.32 | -7.39 | -6.14 | | |
| -1.35 | -5.43 | -4.16 | | |
| -2.14 | -6.45 | -4.5 | | |
| -2.07 | -0.98 | 0.03 | | |
| -2.32 | -4.07 | -2.9 | | |
| -2.7 | -3.33 | -1.94 | | |
| 1.31 | -1.15 | -0.14 | | |
| 1.28 | -0.48 | 0.57 | | |
| 1.08 | -4.62 | -3.32 | | |
| -1.05 | -4.19 | -2.71 | | |
| -1.3 | -4.74 | -2.96 | | |
| -2.06 | -2.32 | -1.31 | | |
| -2.26 | 1.36 | 2.5 | | |
| -2.51 | -2.4 | -1.11 | | |
| -2.8 | 2.77 | 4.22 | | |
| -1.11 | 2.05 | 3.06 | | |
| -1.15 | 3.1 | 4.17 | | |
| -1.17 | 3.01 | 4.09 | | |
| -1.2 | -1.64 | -0.52 | | |
| -1.29 | -0.97 | 0.26 | | |
| -1.47 | -0.65 | 0.76 | | |
| -1.63 | -1.07 | 0.5 | | |
| -1.91 | -0.35 | 1.45 | | |
| -2.65 | 0.89 | 3.15 | | |
| -1.41 | -0.88 | 0.14 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.41 | -0.92 | 0.09 | | |
| -1.47 | -2.24 | -1.16 | | |
| -1.58 | 4.23 | 5.4 | | |
| 1.17 | -2.45 | -1.44 | | |
| 1.13 | 0.44 | 1.51 | | |
| 1.09 | -4.55 | -3.44 | | |
| 1.07 | -1.92 | -0.78 | | |
| 1.05 | -4.16 | -2.99 | | |
| 1.02 | -2.3 | -1.09 | | |
| -1.53 | -3.2 | -1.35 | | |
| -2.61 | -4.01 | -3 | | |
| -2.79 | -3.46 | -2.36 | | |
| -3.09 | -2.03 | -0.78 | | |
| -1.36 | 0.29 | 1.3 | | |
| -1.39 | 5.18 | 6.22 | | |
| -1.56 | -1.76 | -0.55 | | |
| -1.61 | -0.33 | 0.92 | | |
| -2.43 | -3.5 | -1.65 | | |
| -1.7 | 0.6 | 1.61 | | |
| -1.82 | -0.18 | 0.93 | | |
| -1.85 | -0.53 | 0.6 | | |
| -2.23 | -0.38 | 1.01 | | |
| -2.61 | -1.17 | 0.45 | | |
| -1.5 | -1.7 | -0.69 | | |
| -1.62 | 0.11 | 1.23 | | |
| -1.83 | 1.89 | 3.19 | | |
| -1.33 | -1.51 | -0.5 | | |
| -1.35 | 0.54 | 1.58 | | |
| -1.36 | -1.04 | 0 | | |
| -2.38 | 0.38 | 1.39 | | |
| -2.59 | -3.49 | -2.36 | | |
| -1.2 | -4.42 | -3.41 | | |
| -1.45 | -0.27 | 1 | | |
| -1.77 | -4.24 | -3.23 | | |
| -1.89 | -3.64 | -2.53 | | |
| -2 | -4.14 | -2.95 | | |
| 1.15 | -1.07 | -0.05 | | |
| 1.03 | -4.49 | -3.32 | | |
| -1.13 | -3.75 | -2.35 | | |
| -1.14 | -4.55 | -3.15 | | |
| -1.14 | 1.92 | 3.33 | | |
| -1.15 | -0.25 | 1.16 | | |
| -3.66 | -5.26 | -4.25 | | |
| -4.53 | -5.85 | -4.53 | | |
| -4.64 | -5.18 | -3.83 | | |
| 3.89 | -0.12 | 0.9 | | |
| 3.66 | -1.56 | -0.45 | | |
| 3.54 | -0.71 | 0.44 | | |
| 3.48 | -2.94 | -1.77 | | |
| 3.41 | -1.69 | -0.48 | | |
| 3.36 | -3.34 | -2.11 | | |
| 2.04 | -3.47 | -1.52 | | |
| 2.03 | -1.71 | 0.24 | | |
| 1.93 | -2.32 | -0.29 | | |
| 1.68 | -2.98 | -0.75 | | |
| 1.54 | -3.77 | -1.42 | | |
| 1.42 | 0.34 | 2.81 | | |
| 1.33 | 0.7 | 3.26 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.22 | 1.19 | 3.88 | | |
| 1.21 | 0.13 | 2.84 | | |
| 1.17 | 0.45 | 3.2 | | |
| 1.06 | -3.91 | -1.02 | | |
| 1.05 | 3.82 | 6.73 | | |
| 1.03 | 0.79 | 3.72 | | |
| -1.15 | 1.15 | 4.32 | | |
| -1.71 | -3.02 | 0.73 | | |
| -1.72 | -5.51 | -4.5 | | |
| -2.37 | -6.53 | -5.05 | | |
| 1.1 | -0.55 | 0.46 | | |
| 1.03 | 1.99 | 3.09 | | |
| 1.02 | -0.33 | 0.78 | | |
| 1 | 0.74 | 1.87 | | |
| -1.1 | 4.03 | 5.31 | | |
| -1.12 | -3.33 | -2.03 | | |
| -1.93 | -1.08 | 1.02 | | |
| 9.22 | -0.31 | 0.71 | | |
| 8.1 | -0.59 | 0.61 | | |
| 6.83 | -1.24 | 0.21 | | |
| 5.45 | -6.19 | -4.42 | | |
| 4.35 | -2.06 | 0.04 | | |
| 3.63 | -2.59 | -0.23 | | |
| 3.54 | -3.91 | -1.51 | | |
| 3.49 | -6.34 | -3.92 | | |
| 2.72 | -6.43 | -3.65 | | |
| 2.57 | -7.02 | -4.16 | | |
| 2.37 | -5.47 | -2.5 | | |
| 2.31 | -4.66 | -1.65 | | |
| 1.62 | -0.71 | 2.82 | | |
| 1.49 | -6.91 | -3.27 | | |
| 1.13 | -4.21 | -0.16 | | |
| 1.11 | 1.9 | 5.97 | | |
| 1.09 | -5.4 | -1.31 | | |
| 1.02 | -6.11 | -1.91 | | |
| -2.14 | -1.12 | -0.11 | | |
| -2.18 | 1.05 | 2.09 | | |
| -2.34 | -0.49 | 0.65 | | |
| -2.36 | -2.23 | -1.08 | | |
| -2.37 | 2.19 | 3.35 | | |
| -2.69 | -2.56 | -1.22 | | |
| -2.7 | 0.18 | 1.52 | | |
| -2.91 | -1.13 | 0.32 | | |
| -2.94 | 0.4 | 1.87 | | |
| -2.94 | -2.18 | -0.7 | | |
| -3.12 | -0.06 | 1.5 | | |
| -3.14 | -3.54 | -1.98 | | |
| -3.32 | -0.68 | 0.97 | | |
| -3.32 | -0.68 | 0.97 | | |
| -3.46 | 0.56 | 2.27 | | |
| -3.47 | -2.69 | -0.98 | | |
| -3.89 | 0.68 | 2.55 | | |
| -4.03 | 0.61 | 2.53 | | |
| -4.43 | -0.26 | 1.81 | | |
| -1.28 | 1.18 | 2.2 | | |
| -1.36 | 4.33 | 5.44 | | |
| -1.43 | 3.1 | 4.28 | | |
| -1.44 | 2.75 | 3.94 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.47 | -1.09 | 0.12 | | |
| -1.99 | 2.23 | 3.88 | | |
| -2.76 | 2.03 | 4.16 | | |
| -3.41 | 2.86 | 5.3 | | |
| 1.85 | -4.2 | -3.18 | | |
| 1.19 | 1.78 | 3.44 | | |
| 1.1 | 1.76 | 3.52 | | |
| 1.06 | -5.84 | -4.03 | | |
| 1.04 | 5.26 | 7.1 | | |
| -1.11 | -6.34 | -4.29 | | |
| -1.22 | -5.23 | -3.04 | | |
| -2.09 | -2.9 | -1.88 | | |
| -2.1 | -2 | -0.97 | | |
| -2.21 | 0.13 | 1.23 | | |
| -1.62 | -2.95 | -1.94 | | |
| -1.68 | -4.67 | -3.61 | | |
| -2.62 | -5.07 | -3.36 | | |
| 2.27 | -3.05 | -2.03 | | |
| 1.75 | 0.2 | 1.59 | | |
| 1.73 | 0.95 | 2.35 | | |
| 1.64 | -0.48 | 1 | | |
| 1.38 | 1.68 | 3.41 | | |
| 1.15 | -0.47 | 1.53 | | |
| -1.74 | -4.51 | -1.52 | | |
| -2.1 | -1.95 | -0.94 | | |
| -2.19 | -4.01 | -2.93 | | |
| -3.38 | -3.48 | -1.78 | | |
| -1.15 | -4.69 | -3.68 | | |
| -1.22 | -1.05 | 0.05 | | |
| -1.86 | -1.58 | -0.57 | | |
| -1.93 | -2.56 | -1.49 | | |
| -1.71 | -0.23 | 0.79 | | |
| -1.73 | -3.67 | -2.64 | | |
| -1.73 | 1.34 | 2.37 | | |
| -1.75 | -2.06 | -1.01 | | |
| -1.75 | 0.33 | 1.37 | | |
| -1.77 | 0.82 | 1.88 | | |
| -2.16 | -0.58 | 0.77 | | |
| -2.23 | -1.58 | -0.18 | | |
| -2.52 | -1.92 | -0.35 | | |
| -3.32 | -1.39 | 0.59 | | |
| -2.19 | -3.06 | -2.04 | | |
| -3.17 | -2.58 | -1.03 | | |
| -1.37 | -5.21 | -4.19 | | |
| -4.38 | -1.37 | 1.32 | | |
| -1.42 | -1.05 | -0.03 | | |
| -1.51 | -1 | 0.11 | | |
| -1.62 | -2.26 | -1.05 | | |
| -2.03 | 3.07 | 4.61 | | |
| -1.8 | -6.98 | -5.97 | | |
| -1.99 | -3.78 | -2.62 | | |
| 1.47 | 1.98 | 2.99 | | |
| 1.4 | -0.53 | 0.55 | | |
| -1.06 | -1.63 | 0.02 | | |
| -1.11 | -5.41 | -3.68 | | |
| -1.18 | -2.75 | -0.94 | | |
| -1.25 | -3.41 | -1.52 | | |
| -1.38 | -2.56 | -0.52 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.47 | 0.76 | 2.89 | | |
| -2.24 | -3.16 | -0.42 | | |
| -1.25 | -3.26 | -2.24 | | |
| -1.28 | -5.57 | -4.52 | | |
| -2.01 | -3.25 | -1.55 | | |
| 1.34 | 1.62 | 2.64 | | |
| 1.32 | 1.65 | 2.69 | | |
| 1.06 | -1.61 | -0.26 | | |
| 1.05 | -1.5 | -0.13 | | |
| 1.02 | 1.33 | 2.74 | | |
| 1 | -0.45 | 0.99 | | |
| -1.05 | -1.09 | 0.42 | | |
| -1.09 | 3.89 | 5.45 | | |
| -1.1 | 5.67 | 7.25 | | |
| -1.23 | 2.33 | 4.07 | | |
| -1.51 | 1.46 | 3.49 | | |
| -2.09 | -0.89 | 1.61 | | |
| -2.25 | -1.92 | -0.91 | | |
| -2.7 | -2.1 | -0.83 | | |
| -1.66 | -0.02 | 0.99 | | |
| -1.66 | -0.25 | 0.76 | | |
| -1.22 | -2.29 | -1.27 | | |
| -1.4 | 1.57 | 2.78 | | |
| -1.23 | -4.97 | -3.95 | | |
| -1.27 | -2.62 | -1.56 | | |
| -1.73 | -4.77 | -3.26 | | |
| -1.35 | 0.97 | 1.98 | | |
| -1.36 | 0.36 | 1.38 | | |
| -2.82 | -2.08 | 0 | | |
| -2.11 | -4.33 | -3.32 | | |
| -2.17 | -4.03 | -2.97 | | |
| -3.13 | -4.36 | -2.78 | | |
| -1.54 | 1.4 | 2.42 | | |
| -1.61 | -0.46 | 0.61 | | |
| -1.3 | -4.17 | -3.16 | | |
| -1.39 | -5.28 | -4.16 | | |
| -1.45 | -4.22 | -3.04 | | |
| -1.12 | -2.11 | -1.1 | | |
| -1.15 | 2.83 | 3.89 | | |
| -1.24 | -1.29 | -0.13 | | |
| 1.85 | -2.97 | -1.95 | | |
| 1.7 | 0.36 | 1.5 | | |
| 1.38 | -0.34 | 1.11 | | |
| 1.11 | -0.72 | 1.04 | | |
| -1.04 | 2.37 | 4.33 | | |
| -1.36 | -5.02 | -2.67 | | |
| -1.95 | 2.24 | 3.25 | | |
| -2.44 | 1.84 | 3.18 | | |
| -2.94 | 0.45 | 2.06 | | |
| -3.73 | 2.65 | 4.6 | | |
| -1.62 | 1.07 | 2.08 | | |
| -1.74 | -2.14 | -1.03 | | |
| -1.77 | -3.59 | -2.45 | | |
| -1.8 | -0.62 | 0.54 | | |
| -1.82 | -0.8 | 0.38 | | |
| -2.32 | 0.07 | 1.6 | | |
| -3.53 | -2.66 | -0.53 | | |
| -4.67 | -3 | -0.46 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.48 | -2.9 | -1.89 | | |
| 1.47 | -1.37 | -0.36 | | |
| 1.38 | -2.51 | -1.4 | | |
| 1.37 | -4.1 | -2.98 | | |
| 1.34 | -3.88 | -2.73 | | |
| 1.26 | 0.8 | 2.04 | | |
| 1.24 | 0.37 | 1.63 | | |
| 1.2 | -6.28 | -4.97 | | |
| 1.06 | 2.34 | 3.82 | | |
| 1.05 | -4.28 | -2.78 | | |
| -1.01 | -4.82 | -3.23 | | |
| -1.08 | -2.51 | -0.83 | | |
| 1.33 | 3.36 | 4.37 | | |
| 1.31 | -3 | -1.96 | | |
| 1.3 | 2.23 | 3.27 | | |
| 1.26 | -1.58 | -0.5 | | |
| 1.26 | 3.16 | 4.25 | | |
| -1.95 | -3.24 | -2.23 | | |
| -4.23 | -3.85 | -1.72 | | |
| -1.7 | -2.15 | -1.14 | | |
| -2.9 | -2.72 | -0.94 | | |
| -1.47 | 0.29 | 1.3 | | |
| -1.5 | 3.27 | 4.31 | | |
| -1.63 | -1.6 | -0.59 | | |
| -1.77 | -1.89 | -0.76 | | |
| -2.16 | -2.81 | -1.39 | | |
| -1.84 | -2.21 | -1.2 | | |
| -1.95 | -1.43 | -0.33 | | |
| -1.34 | -0.77 | 0.24 | | |
| -1.59 | -0.2 | 1.06 | | |
| -1.62 | -1.44 | -0.15 | | |
| -1.64 | -3.46 | -2.45 | | |
| -1.87 | -5.4 | -4.19 | | |
| -2.14 | -3.4 | -2 | | |
| -2.39 | -4.63 | -3.07 | | |
| -2.7 | 1.55 | 2.56 | | |
| -3.06 | -0.72 | 0.47 | | |
| 1.08 | -2.47 | -1.46 | | |
| -1.5 | -2.65 | -0.95 | | |
| -1.41 | -6.07 | -5.06 | | |
| -1.59 | -4.84 | -3.65 | | |
| -1.69 | -5 | -3.72 | | |
| -1.81 | -3.82 | -2.44 | | |
| -1.84 | -6.06 | -4.66 | | |
| -2.02 | -1.57 | -0.55 | | |
| -3.76 | -2.05 | -0.13 | | |
| -2.02 | -1.57 | -0.55 | | |
| -3.76 | -2.05 | -0.13 | | |
| -1.72 | 0.39 | 1.4 | | |
| -2.02 | 2.32 | 3.56 | | |
| -2.26 | -1.17 | 0.24 | | |
| -2.4 | 3.68 | 5.18 | | |
| -2.44 | 3.26 | 4.78 | | |
| -3.36 | 2.52 | 4.49 | | |
| -1.81 | -2.43 | -1.41 | | |
| -2.42 | -5.09 | -3.65 | | |
| 1.07 | -1.73 | -0.71 | | |
| 1.06 | -2.32 | -1.29 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1 | -1.76 | -0.66 | | |
| -1.01 | -1.75 | -0.62 | | |
| -1.14 | -3.12 | -1.81 | | |
| -1.23 | -4.04 | -2.63 | | |
| -1.24 | -2.99 | -1.57 | | |
| -1.58 | -4.6 | -2.83 | | |
| -1.11 | 5.96 | 6.98 | | |
| -1.13 | 2.09 | 3.13 | | |
| 1.48 | -3.58 | -2.56 | | |
| 1.44 | -2.9 | -1.84 | | |
| 1.29 | -2.01 | -0.79 | | |
| 1.28 | -0.22 | 1.01 | | |
| 1.18 | -2.08 | -0.73 | | |
| 1.18 | -1.45 | -0.1 | | |
| 1.16 | -2.53 | -1.16 | | |
| 1.13 | -4.45 | -3.04 | | |
| 1.05 | -3.08 | -1.56 | | |
| -1.03 | -0.04 | 1.59 | | |
| -1.15 | -3.37 | -1.58 | | |
| -1.42 | -3.46 | -2.44 | | |
| -1.68 | -8.05 | -6.79 | | |
| -2.59 | -5.16 | -3.27 | | |
| -1.82 | -2.03 | -1.01 | | |
| -1.92 | -1.77 | -0.67 | | |
| -1.01 | -1.57 | -0.55 | | |
| -1.09 | -3.31 | -2.19 | | |
| -1.12 | -3.89 | -2.73 | | |
| -1.01 | -4.76 | -3.73 | | |
| -1.01 | -1.89 | -0.86 | | |
| -1.03 | -1.15 | -0.1 | | |
| -1.04 | -4.43 | -3.37 | | |
| -1.03 | -2.54 | -1.48 | | |
| -1.07 | -2.44 | -1.33 | | |
| -1.11 | -4.8 | -3.64 | | |
| -1.15 | 3.95 | 5.15 | | |
| -1.15 | -4.04 | -2.82 | | |
| -1.17 | -2.51 | -1.27 | | |
| -1.23 | -3.82 | -2.51 | | |
| -1.31 | -0.53 | 0.86 | | |
| -2.27 | -1.09 | -0.07 | | |
| -2.31 | -2.28 | -1.23 | | |
| -2.4 | -3.58 | -2.48 | | |
| -2.42 | -1.63 | -0.51 | | |
| -2.48 | -2.94 | -1.79 | | |
| -2.73 | -2.28 | -0.99 | | |
| -2.92 | -4.31 | -2.92 | | |
| -2.97 | -3.34 | -1.93 | | |
| -3.94 | -2.66 | -0.84 | | |
| -2.11 | -5.18 | -4.16 | | |
| -2.15 | -4.49 | -3.45 | | |
| -2.36 | -3.92 | -2.75 | | |
| -1.66 | -3.78 | -2.75 | | |
| -1.68 | 1.09 | 2.13 | | |
| -1.72 | -3.15 | -2.07 | | |
| -1.89 | -3.01 | -1.8 | | |
| -1.1 | 3.8 | 4.82 | | |
| -1.28 | -3.84 | -2.61 | | |
| -2.42 | -3.03 | -0.87 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.03 | 4.03 | 5.05 | | |
| 1 | 0.74 | 1.8 | | |
| -1.03 | -1.27 | -0.17 | | |
| -1.73 | 0.78 | 1.8 | | |
| -1.87 | -1.85 | -0.72 | | |
| -1.11 | -1.97 | -0.95 | | |
| -1.12 | -4.71 | -3.67 | | |
| -1.14 | -3.33 | -2.26 | | |
| -1.23 | -2.16 | -0.99 | | |
| -1.27 | -2.53 | -1.31 | | |
| -1.59 | -6.47 | -4.93 | | |
| -1.65 | -3.39 | -2.38 | | |
| -2.05 | -5.8 | -4.46 | | |
| -1.02 | -0.45 | 0.57 | | |
| -1.03 | 0.14 | 1.17 | | |
| -1.05 | 1.84 | 2.89 | | |
| -1.05 | 0.68 | 1.74 | | |
| -1.06 | -0.01 | 1.06 | | |
| -1.06 | 0.95 | 2.02 | | |
| -1.1 | -1.13 | -0.01 | | |
| -1.1 | 4.16 | 5.29 | | |
| -1.15 | 2.58 | 3.76 | | |
| -1.27 | -1.3 | 0.02 | | |
| -1.32 | -3.59 | -2.21 | | |
| -1.34 | -4.24 | -2.84 | | |
| -1.7 | -2.51 | -0.75 | | |
| 1.04 | -3.46 | -2.44 | | |
| 1.02 | -2.67 | -1.62 | | |
| 1.01 | 1.21 | 2.27 | | |
| -1.06 | -4.05 | -2.89 | | |
| -1.11 | 2.16 | 3.4 | | |
| -1.5 | -1.14 | 0.53 | | |
| -1.98 | -2.41 | -0.35 | | |
| -2.45 | -5.19 | -4.17 | | |
| -3.09 | -4.99 | -3.64 | | |
| 1.09 | 1.37 | 2.39 | | |
| 1.07 | -2.2 | -1.16 | | |
| -1.64 | -3.2 | -2.17 | | |
| -2.19 | -5.14 | -3.71 | | |
| 1.53 | -2.73 | -1.71 | | |
| 1.52 | -0.7 | 0.32 | | |
| 1.26 | 0.28 | 1.57 | | |
| 1.19 | 0.55 | 1.93 | | |
| 1.5 | 1.18 | 2.2 | | |
| 1.44 | -3.17 | -2.08 | | |
| 1.43 | 0.22 | 1.31 | | |
| 1.35 | -0.47 | 0.71 | | |
| 1.34 | -3.16 | -1.97 | | |
| 1.32 | -2.38 | -1.18 | | |
| 1.31 | -1.54 | -0.33 | | |
| 1.3 | -5.03 | -3.8 | | |
| 1.28 | -0.07 | 1.18 | | |
| 1.26 | -3.96 | -2.69 | | |
| 1.25 | -1.19 | 0.09 | | |
| 1.24 | -5.42 | -4.13 | | |
| 1.23 | -1.67 | -0.36 | | |
| 1.23 | -2.44 | -1.13 | | |
| 1.21 | -1.04 | 0.29 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.19 | -0.71 | 0.65 | | |
| 1.14 | -5.06 | -3.64 | | |
| 1.03 | -3.63 | -2.07 | | |
| 1.02 | -5.18 | -3.61 | | |
| -1.07 | -1.53 | 0.17 | | |
| -1.08 | -2.85 | -1.14 | | |
| -1.14 | 0.67 | 2.47 | | |
| -1.15 | -2.07 | -0.25 | | |
| -1.19 | -4.84 | -2.98 | | |
| -1.34 | -3.45 | -1.42 | | |
| -1.5 | -2.96 | -0.77 | | |
| -1.87 | 1.8 | 2.82 | | |
| -2.02 | 2.35 | 3.48 | | |
| -2.11 | 0.68 | 1.87 | | |
| -2.15 | 0.53 | 1.75 | | |
| -2.62 | -1.5 | 0.01 | | |
| -2.75 | -1.39 | 0.19 | | |
| -2.78 | -1.37 | 0.22 | | |
| 1.19 | -1.17 | -0.16 | | |
| 1.12 | -0.79 | 0.32 | | |
| 1.09 | -5.64 | -4.5 | | |
| 1.05 | -0.92 | 0.27 | | |
| 1.03 | -0.95 | 0.28 | | |
| 1.02 | -4.1 | -2.86 | | |
| -1.03 | -4.46 | -3.16 | | |
| -1.06 | -5.53 | -4.18 | | |
| -1.07 | -1.31 | 0.05 | | |
| -1.12 | -5.51 | -4.08 | | |
| -1.13 | -5.48 | -4.04 | | |
| -1.27 | -2.71 | -1.11 | | |
| -1.37 | -0.99 | 0.72 | | |
| -1.8 | -5.71 | -3.6 | | |
| -1.83 | -6.04 | -3.91 | | |
| -1.72 | 0.38 | 1.39 | | |
| -1.74 | -1.56 | -0.52 | | |
| -1.8 | -2.74 | -1.66 | | |
| -1.85 | -0.1 | 1.02 | | |
| -2.4 | -0.21 | 1.29 | | |
| -2.82 | -0.75 | 0.98 | | |
| 1.47 | -0.53 | 0.49 | | |
| 1.33 | -2.47 | -1.3 | | |
| 1.31 | -2.08 | -0.89 | | |
| 1.26 | -3.45 | -2.21 | | |
| 1.21 | -2.06 | -0.77 | | |
| 1.21 | -3.4 | -2.1 | | |
| 1.15 | -2.34 | -0.96 | | |
| -2.43 | 1.73 | 2.75 | | |
| -2.43 | -2.77 | -1.75 | | |
| -2.6 | -0.47 | 0.65 | | |
| -2.63 | -0.94 | 0.19 | | |
| -3.04 | -0.4 | 0.95 | | |
| -3.39 | -3.31 | -1.8 | | |
| -3.84 | -4.2 | -2.51 | | |
| -1.56 | -2.14 | -1.11 | | |
| -3.13 | -2.84 | -0.81 | | |
| -1.7 | -1.57 | -0.55 | | |
| -2.37 | 1.78 | 3.27 | | |
| -1.04 | 0.62 | 1.64 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.12 | -2.35 | -1.23 | | |
| 1.3 | -4.91 | -3.89 | | |
| 1.24 | 0.68 | 1.77 | | |
| -1.16 | -3.26 | -1.65 | | |
| -1.86 | -0.32 | 0.7 | | |
| -2.52 | -0.39 | 1.07 | | |
| 1.36 | -1.13 | -0.11 | | |
| 1.33 | 0.43 | 1.49 | | |
| 1.29 | -1.71 | -0.6 | | |
| 1.28 | -0.83 | 0.29 | | |
| 1.27 | -1.4 | -0.27 | | |
| 1.04 | 1.28 | 2.69 | | |
| -1.1 | -2.92 | -1.31 | | |
| -1.43 | -4.44 | -2.45 | | |
| -2.55 | -3.96 | -2.94 | | |
| -2.73 | -0.61 | 0.52 | | |
| -3.15 | -3.16 | -1.82 | | |
| -1.54 | -2.82 | -1.8 | | |
| -2.34 | -1.08 | 0.55 | | |
| -1.22 | -0.07 | 0.96 | | |
| -1.41 | -0.27 | 0.95 | | |
| -1.43 | -0.94 | 0.31 | | |
| 1.16 | 3.49 | 4.51 | | |
| -1.02 | -3.23 | -1.96 | | |
| -1.23 | -2.57 | -1.03 | | |
| 1.02 | -3.15 | -2.13 | | |
| -1.42 | -6.34 | -4.77 | | |
| -1.51 | -3.81 | -2.16 | | |
| -1.76 | -4.25 | -3.23 | | |
| -1.77 | -4.21 | -3.18 | | |
| -1.84 | -1.35 | -0.26 | | |
| -2.18 | -2.15 | -0.82 | | |
| -2.36 | -2.79 | -1.34 | | |
| -1.17 | -2.2 | -1.18 | | |
| -1.44 | -1.85 | -0.53 | | |
| -1.28 | -0.96 | 0.06 | | |
| -1.3 | -2.25 | -1.2 | | |
| -1.45 | -1.96 | -0.76 | | |
| -1.8 | -1.41 | 0.11 | | |
| 1.17 | -1.76 | -0.74 | | |
| 1.08 | -4.26 | -3.12 | | |
| -1.22 | 4.01 | 5.55 | | |
| -2.91 | -4.66 | -3.64 | | |
| -3.13 | -4.34 | -3.21 | | |
| 1.28 | 1.43 | 2.45 | | |
| 1.24 | 0.92 | 1.99 | | |
| 1.21 | 0.24 | 1.34 | | |
| 1.18 | -1.1 | 0.05 | | |
| 1.14 | 0.61 | 1.8 | | |
| 1.12 | -0.95 | 0.27 | | |
| -1.02 | 1.13 | 2.53 | | |
| -1.13 | -3.57 | -2.01 | | |
| -1.78 | -2.32 | -1.3 | | |
| -1.81 | -2.62 | -1.57 | | |
| 1.54 | -2.69 | -1.67 | | |
| 1.47 | -2.64 | -1.54 | | |
| 1.46 | -2.34 | -1.23 | | |
| 1.29 | -7.29 | -6.01 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.09 | -3.16 | -1.63 | | |
| 1.07 | 1.99 | 3.54 | | |
| 1.05 | -3.55 | -1.98 | | |
| -1.05 | -3.49 | -1.77 | | |
| -1.07 | -1.28 | 0.47 | | |
| -2.61 | 0.29 | 1.32 | | |
| -4.1 | -3.55 | -1.87 | | |
| -5.35 | -3.17 | -1.1 | | |
| -2.45 | -0.42 | 0.6 | | |
| -2.46 | 1.38 | 2.41 | | |
| -3.13 | -0.4 | 0.97 | | |
| -4.03 | -1.11 | 0.63 | | |
| -1.5 | -1.29 | -0.25 | | |
| -1.83 | -0.7 | 0.62 | | |
| -2.27 | -1.36 | -0.33 | | |
| -2.38 | -1.57 | -0.47 | | |
| -4.19 | -3.36 | -1.45 | | |
| -1.3 | -0.3 | 0.73 | | |
| -1.37 | -0.19 | 0.92 | | |
| -1.4 | 1.45 | 2.59 | | |
| -1.45 | -0.08 | 1.11 | | |
| -2.24 | 1.43 | 3.25 | | |
| -1.01 | -0.66 | 0.37 | | |
| -1.06 | 0.03 | 1.12 | | |
| -1.23 | 5.08 | 6.39 | | |
| -1.55 | -4.31 | -3.28 | | |
| -1.99 | -4.02 | -2.63 | | |
| -2.01 | -4.62 | -3.22 | | |
| -2.18 | -2.29 | -1.26 | | |
| -2.26 | -3.33 | -2.25 | | |
| -2.38 | -2.13 | -0.97 | | |
| -1.27 | -3.49 | -2.46 | | |
| -1.31 | -2.89 | -1.81 | | |
| -1.37 | -0.48 | 0.66 | | |
| -1.46 | -0.76 | 0.47 | | |
| -1.48 | -3.44 | -2.19 | | |
| -2.14 | -1.6 | -0.57 | | |
| -2.52 | -4.38 | -3.12 | | |
| -2.08 | -1.16 | -0.14 | | |
| -2.12 | -3.25 | -2.19 | | |
| -2.34 | -1.96 | -0.77 | | |
| -2.62 | -0.91 | 0.45 | | |
| -3.31 | -3.45 | -1.76 | | |
| -3.24 | -6.65 | -5.61 | | |
| -3.54 | -5.93 | -4.77 | | |
| -3.95 | 0.69 | 1.72 | | |
| -4.21 | -0.21 | 0.9 | | |
| -4.53 | 0.73 | 1.96 | | |
| -8.85 | -3.87 | -1.67 | | |
| -1.04 | -5.26 | -4.24 | | |
| -1.1 | -3.23 | -2.13 | | |
| -1.1 | 2.95 | 4.06 | | |
| -1.57 | -2.81 | -1.19 | | |
| 1.06 | -2.8 | -1.78 | | |
| 1.05 | -3.95 | -2.9 | | |
| -1.09 | -0.8 | 0.44 | | |
| -1.18 | -3.83 | -2.47 | | |
| 1.65 | 0.67 | 1.7 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.61 | -0.58 | 0.48 | | |
| 1.58 | 4.94 | 6.03 | | |
| 1.55 | -1.17 | -0.06 | | |
| 1.52 | -1.05 | 0.1 | | |
| 1.46 | 2.14 | 3.34 | | |
| 1.41 | -1.12 | 0.14 | | |
| 1.41 | -0.44 | 0.82 | | |
| 1.36 | 0.09 | 1.4 | | |
| 1.14 | -3.04 | -1.49 | | |
| 1.13 | 1.01 | 2.59 | | |
| 1.12 | 0.4 | 1.99 | | |
| -1.04 | -0.5 | 1.32 | | |
| -1.16 | -3.5 | -1.54 | | |
| -1.74 | -1.89 | -0.87 | | |
| -1.85 | -1.69 | -0.58 | | |
| 1.03 | -0.99 | 0.04 | | |
| -1.01 | 0.47 | 1.56 | | |
| -1.02 | -0.5 | 0.6 | | |
| -1.04 | -2.46 | -1.33 | | |
| -1.05 | -1.31 | -0.17 | | |
| -1.19 | -1.57 | -0.25 | | |
| -1.22 | -0.48 | 0.88 | | |
| -1.29 | -3.16 | -1.73 | | |
| -1.22 | -4.5 | -3.47 | | |
| -1.44 | -3.67 | -2.39 | | |
| -2.12 | -2.21 | -1.18 | | |
| -2.19 | -0.16 | 0.92 | | |
| -2.25 | -1.48 | -0.36 | | |
| -2.3 | 0.68 | 1.83 | | |
| -2.46 | -0.7 | 0.54 | | |
| -2.78 | -0.23 | 1.19 | | |
| -3.1 | -1.75 | -0.18 | | |
| -4.28 | -0.61 | 1.43 | | |
| -1.5 | -2.23 | -1.2 | | |
| -1.64 | -1.5 | -0.34 | | |
| -1.86 | 1.9 | 3.24 | | |
| -1.88 | -0.88 | 0.48 | | |
| -1.01 | -2.13 | -1.1 | | |
| -1.02 | 5.75 | 6.8 | | |
| -1.05 | -2.67 | -1.58 | | |
| -1.12 | -2.56 | -1.38 | | |
| -1.5 | -2.17 | -0.57 | | |
| -2.3 | -1.55 | 0.67 | | |
| -1.1 | -2.47 | -1.43 | | |
| -1.16 | 1.2 | 2.31 | | |
| -1.71 | 0.95 | 1.98 | | |
| -1.77 | -0.19 | 0.88 | | |
| -1.89 | 0.27 | 1.44 | | |
| -2.07 | 0.17 | 1.47 | | |
| -2.21 | -0.38 | 1.02 | | |
| 1.02 | -1.89 | -0.86 | | |
| -1.01 | 0.95 | 2.01 | | |
| -1.02 | 1.33 | 2.41 | | |
| -1.04 | -2.28 | -1.17 | | |
| -1.11 | -3.31 | -2.11 | | |
| -1.12 | -3.32 | -2.11 | | |
| -2.45 | -1.54 | -0.51 | | |
| -4.76 | -2.59 | -0.6 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.08 | -0.1 | 0.93 | | |
| -1.28 | -3.83 | -2.35 | | |
| -1.52 | -2.62 | -0.89 | | |
| -1.97 | -1.66 | -0.63 | | |
| -2.06 | -1.18 | -0.08 | | |
| -2.41 | -2.59 | -1.27 | | |
| -2.7 | 1.04 | 2.53 | | |
| -2.82 | -2.44 | -0.89 | | |
| -3.82 | 0.06 | 2.04 | | |
| -5.33 | -2.73 | -0.27 | | |
| -2.04 | -2.48 | -1.45 | | |
| -2.3 | -0.45 | 0.75 | | |
| -2.45 | -3.57 | -2.27 | | |
| -1.07 | 7.41 | 8.44 | | |
| -1.07 | -0.89 | 0.14 | | |
| -1.08 | 2.28 | 3.32 | | |
| -1.1 | 5.77 | 6.84 | | |
| -1.11 | 4.38 | 5.46 | | |
| -1.15 | 1.53 | 2.65 | | |
| -1.16 | 1.73 | 2.87 | | |
| -1.26 | 5.9 | 7.17 | | |
| -1.27 | 2.54 | 3.82 | | |
| -1.14 | -4.88 | -3.85 | | |
| -1.22 | -1.35 | -0.22 | | |
| -1.41 | -3.09 | -1.75 | | |
| 1.55 | -3.19 | -2.16 | | |
| 1.07 | 0.08 | 1.64 | | |
| 1.07 | -0.08 | 1.49 | | |
| -2.82 | -1.3 | -0.26 | | |
| -2.97 | -2.68 | -1.57 | | |
| -3.52 | -2.52 | -1.17 | | |
| -2.65 | -2.58 | -1.55 | | |
| -2.88 | -3.17 | -2.03 | | |
| -1.9 | -5.77 | -4.74 | | |
| -2.66 | -3.82 | -2.31 | | |
| -3.28 | -3.06 | -1.24 | | |
| -2.68 | -1.06 | -0.03 | | |
| -2.96 | -2.02 | -0.86 | | |
| -3.11 | -2.52 | -1.28 | | |
| -3.79 | -4.33 | -2.8 | | |
| -1.2 | -2.29 | -1.26 | | |
| -1.23 | -4.18 | -3.12 | | |
| -1.75 | -4.11 | -2.54 | | |
| -2.12 | 0.84 | 1.86 | | |
| -2.12 | -3.47 | -2.44 | | |
| -2.2 | -1.33 | -0.25 | | |
| -2.23 | -1.11 | -0.02 | | |
| -2.5 | -2.41 | -1.15 | | |
| -2.66 | -2.78 | -1.42 | | |
| -2.91 | -1.88 | -0.4 | | |
| -1.7 | -4.47 | -3.43 | | |
| -1.91 | -6.45 | -5.25 | | |
| 1.96 | -2.47 | -1.44 | | |
| 1.88 | 0.98 | 2.07 | | |
| 1.76 | -0.95 | 0.23 | | |
| 1.71 | 0.47 | 1.7 | | |
| 1.27 | 2.7 | 4.36 | | |
| 1.24 | 3.77 | 5.46 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.13 | 1.15 | 2.98 | | |
| 1.05 | -0.39 | 1.54 | | |
| -1.11 | -1.35 | 0.8 | | |
| -1.17 | -0.68 | 1.54 | | |
| -1.24 | 5.22 | 7.54 | | |
| 1.25 | -6.75 | -5.71 | | |
| 1.08 | -2.34 | -1.09 | | |
| -1.04 | -1.38 | 0.04 | | |
| -1.15 | -2.91 | -1.35 | | |
| -1.57 | -1.74 | 0.28 | | |
| -1.58 | -2.74 | -0.71 | | |
| -1.64 | -1.94 | 0.14 | | |
| -1.68 | -2.55 | -0.44 | | |
| -1.69 | -2.1 | 0.02 | | |
| -2.03 | -2.27 | 0.11 | | |
| -2.24 | -2.85 | -0.32 | | |
| -2.3 | -3.23 | -0.67 | | |
| -1.76 | -3.81 | -2.77 | | |
| -2.19 | -4.67 | -3.32 | | |
| -3.47 | -4.08 | -2.07 | | |
| -1.97 | -3.52 | -2.49 | | |
| -2.18 | -4.2 | -3.02 | | |
| -4.65 | -4.87 | -2.59 | | |
| 1.19 | -0.31 | 0.72 | | |
| 1.08 | -1.06 | 0.12 | | |
| 1.07 | -0.29 | 0.9 | | |
| 1.02 | -7.21 | -5.96 | | |
| -1.13 | -8.68 | -7.22 | | |
| -1.16 | -0.38 | 1.13 | | |
| -1.18 | -2.36 | -0.83 | | |
| -1.2 | -3.09 | -1.53 | | |
| -1.32 | -7.78 | -6.09 | | |
| -1.38 | 0.01 | 1.05 | | |
| -1.43 | -3.47 | -2.38 | | |
| -1.48 | -3.68 | -2.54 | | |
| -1.61 | -1.86 | -0.59 | | |
| -1.64 | 4.75 | 5.79 | | |
| -1.67 | 2.78 | 3.84 | | |
| -1.99 | 1.32 | 2.64 | | |
| -1.5 | -0.66 | 0.37 | | |
| -1.52 | -0.26 | 0.8 | | |
| -1.67 | -1.49 | -0.31 | | |
| -1.79 | -3.36 | -2.07 | | |
| -2.12 | 0.56 | 2.09 | | |
| -2.43 | -2.39 | -0.67 | | |
| -2.19 | -2.48 | -1.44 | | |
| -3.52 | -2.73 | -1.01 | | |
| -1.05 | -3.08 | -2.05 | | |
| -1.09 | -1.97 | -0.89 | | |
| -1.11 | -0.78 | 0.33 | | |
| -1.19 | -0.64 | 0.57 | | |
| -2.15 | -2.97 | -1.93 | | |
| -4 | -3.4 | -1.46 | | |
| -1.1 | 1.66 | 2.7 | | |
| -1.16 | 0.93 | 2.04 | | |
| -1.22 | -0.09 | 1.09 | | |
| -1.86 | 2.09 | 3.13 | | |
| -1.87 | -2.64 | -1.6 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.38 | -3.71 | -2.67 | | |
| -2.38 | -3.85 | -2.81 | | |
| -2.46 | -3.8 | -2.71 | | |
| -2.45 | -4.02 | -2.93 | | |
| -1.23 | -1 | 0.04 | | |
| -1.24 | -1.39 | -0.35 | | |
| -1.27 | -1.41 | -0.33 | | |
| -1.31 | 2.84 | 3.97 | | |
| -1.32 | -1.54 | -0.4 | | |
| -1.52 | -2.08 | -0.73 | | |
| -1.56 | 0.48 | 1.86 | | |
| -1.74 | 3.09 | 4.63 | | |
| -1.83 | -0.58 | 1.03 | | |
| -2.44 | -4.78 | -3.74 | | |
| -4.3 | -3.72 | -1.86 | | |
| -1.64 | 1.2 | 2.23 | | |
| -1.65 | -2.45 | -1.41 | | |
| -1.78 | 0.7 | 1.85 | | |
| -2.12 | -2.55 | -1.14 | | |
| -2.22 | -1.32 | 0.15 | | |
| -1.56 | -2.07 | -1.04 | | |
| -1.84 | -2.62 | -1.34 | | |
| -2.54 | -3.09 | -1.35 | | |
| -3.03 | -3.48 | -1.48 | | |
| -3.71 | -2.92 | -0.64 | | |
| -1.41 | 1.66 | 2.69 | | |
| -1.42 | 1.4 | 2.44 | | |
| -2 | -3.44 | -2.41 | | |
| -2.39 | -7.04 | -5.74 | | |
| -2.83 | -6.56 | -5.02 | | |
| -2.96 | -4.25 | -2.65 | | |
| 1.22 | -0.88 | 0.16 | | |
| 1.2 | -2.12 | -1.05 | | |
| 1.17 | 0.67 | 1.77 | | |
| -1.08 | -3.14 | -1.69 | | |
| 1.59 | 0.93 | 1.97 | | |
| 1.42 | -0.88 | 0.32 | | |
| 1.22 | -5.8 | -4.37 | | |
| -2.5 | -2.67 | -1.64 | | |
| -2.53 | -3.22 | -2.17 | | |
| -3.02 | -3.77 | -2.46 | | |
| -1.14 | 0.57 | 1.6 | | |
| -1.19 | 1.87 | 2.97 | | |
| -1.75 | 0.97 | 2.63 | | |
| -1.93 | -1.39 | -0.35 | | |
| -2.81 | -4.4 | -2.81 | | |
| -2.23 | -1.45 | -0.41 | | |
| -3.95 | -2.29 | -0.43 | | |
| -2.11 | -2.81 | -1.77 | | |
| -3.39 | -2.01 | -0.29 | | |
| 1.36 | 1.75 | 2.79 | | |
| 1.27 | -1.11 | 0.02 | | |
| 1.23 | 0.76 | 1.95 | | |
| 1.21 | -1.88 | -0.67 | | |
| 1.11 | -1.75 | -0.42 | | |
| 1.1 | -0.19 | 1.15 | | |
| -1.04 | 0.11 | 1.65 | | |
| -1.17 | 0.3 | 2 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.23 | -2.7 | -0.92 | | |
| -1.43 | -0.86 | 1.14 | | |
| -2.48 | -2.37 | -1.34 | | |
| -2.52 | -2.55 | -1.49 | | |
| -4.23 | -1.56 | 0.25 | | |
| -1.32 | -0.15 | 0.88 | | |
| -1.42 | 0 | 1.15 | | |
| -1.49 | -3.14 | -1.93 | | |
| -1.52 | 0.31 | 1.55 | | |
| -1.54 | 0.22 | 1.48 | | |
| -1.6 | -0.45 | 0.86 | | |
| -1.69 | -2.01 | -0.62 | | |
| -1.73 | -3.3 | -1.87 | | |
| -1.75 | -2.41 | -0.96 | | |
| -1.79 | -2.49 | -1.01 | | |
| -1.94 | -1.84 | -0.25 | | |
| -1.42 | -3.69 | -2.65 | | |
| -1.46 | -3.08 | -2 | | |
| -1.46 | -4.36 | -3.28 | | |
| -1.47 | -1.5 | -0.42 | | |
| -1.49 | -1.52 | -0.42 | | |
| -2.2 | -2.94 | -1.28 | | |
| -2.23 | -2.11 | -0.42 | | |
| -2.5 | -3.31 | -1.46 | | |
| -2.68 | -4.14 | -2.19 | | |
| -1.22 | -5.2 | -4.16 | | |
| -1.25 | -5.23 | -4.17 | | |
| -1.25 | -6.75 | -5.68 | | |
| -1.27 | -2.65 | -1.56 | | |
| -1.7 | -4.91 | -3.4 | | |
| -3.53 | -1.08 | -0.05 | | |
| -4.45 | -3.37 | -2 | | |
| -3.53 | -1.08 | -0.05 | | |
| -4.45 | -3.37 | -2 | | |
| 2.27 | -4.88 | -3.83 | | |
| 2.25 | -1.37 | -0.31 | | |
| 1.73 | -6.26 | -4.83 | | |
| 1.52 | -1.85 | -0.23 | | |
| 1.3 | -6 | -4.16 | | |
| 1.23 | -2.43 | -0.51 | | |
| 1.19 | -5.78 | -3.81 | | |
| -1.19 | -2.61 | -0.14 | | |
| 2.9 | -3.62 | -2.58 | | |
| 2.77 | -2.03 | -0.92 | | |
| 1.54 | -7.15 | -5.2 | | |
| 1.46 | -1.85 | 0.18 | | |
| 1.42 | -2.58 | -0.5 | | |
| 1.18 | 0.37 | 2.71 | | |
| 1.02 | -3.46 | -0.91 | | |
| -1.14 | -7.7 | -4.94 | | |
| -3.57 | -0.75 | 0.29 | | |
| -4.64 | -0.66 | 0.77 | | |
| -8.53 | -2.13 | 0.17 | | |
| -2.3 | -2.32 | -1.27 | | |
| -2.52 | -0.29 | 0.89 | | |
| -3.05 | -3.19 | -1.74 | | |
| -4.7 | -2.39 | -0.31 | | |
| -5.43 | -2.86 | -0.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.2 | -3.76 | -2.72 | | |
| -1.32 | -4.89 | -3.72 | | |
| -1.8 | -4.61 | -2.99 | | |
| -1.26 | 0.03 | 1.07 | | |
| -1.56 | -1.17 | 0.18 | | |
| -1.96 | -2.05 | -0.37 | | |
| -2.17 | -0.04 | 1.79 | | |
| -1.93 | 2.55 | 3.59 | | |
| -2.02 | 1.37 | 2.47 | | |
| -2.3 | 0.5 | 1.79 | | |
| -2.74 | 0.76 | 2.3 | | |
| -2.95 | 0.72 | 2.37 | | |
| 1.22 | -6.23 | -5.18 | | |
| 1.08 | -5.91 | -4.69 | | |
| 1.04 | -5.81 | -4.55 | | |
| -1.01 | -5.88 | -4.55 | | |
| -1.01 | -5.6 | -4.25 | | |
| -1.03 | -5.31 | -3.95 | | |
| -1.07 | -5.68 | -4.26 | | |
| -1.13 | -5.61 | -4.11 | | |
| -1.26 | -5.62 | -3.96 | | |
| -1.28 | -3.25 | -1.56 | | |
| -1.15 | -2.41 | -1.37 | | |
| -1.19 | -1.18 | -0.09 | | |
| -1.39 | -2.24 | -0.92 | | |
| -1.41 | 0.99 | 2.32 | | |
| -1.62 | -2.56 | -1.03 | | |
| -1.63 | -2.13 | -0.58 | | |
| -1.65 | -2.26 | -0.69 | | |
| -1.03 | 0.84 | 1.88 | | |
| -1.27 | 5.17 | 6.51 | | |
| -1.34 | 3.74 | 5.16 | | |
| -2.25 | -2.64 | -1.6 | | |
| -2.36 | -5.65 | -4.54 | | |
| -1.41 | -4.45 | -3.41 | | |
| -1.42 | -3.29 | -2.24 | | |
| -1.7 | -2.69 | -1.37 | | |
| -1.73 | -4.02 | -2.68 | | |
| -2.61 | -5.24 | -3.3 | | |
| -2.58 | -1.2 | -0.16 | | |
| -2.95 | -1.02 | 0.22 | | |
| -1.62 | -5.34 | -4.29 | | |
| -1.83 | -6.17 | -4.94 | | |
| -1.84 | -3.9 | -2.67 | | |
| -1.89 | -3.07 | -1.8 | | |
| -2.02 | -6.01 | -4.65 | | |
| -3.52 | 1.75 | 2.8 | | |
| -3.54 | -2.55 | -1.49 | | |
| -3.58 | 1.01 | 2.07 | | |
| -3.96 | 0.92 | 2.13 | | |
| -3.99 | -4.13 | -2.9 | | |
| -4.04 | -1.01 | 0.23 | | |
| -5.15 | -2.36 | -0.77 | | |
| -5.68 | -1.56 | 0.18 | | |
| -11.55 | -3.67 | -0.91 | | |
| -2 | -0.91 | 0.13 | | |
| -2.28 | -2.28 | -1.06 | | |
| -1.24 | 0.91 | 1.95 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.25 | -0.05 | 1 | | |
| -1.3 | -1.73 | -0.63 | | |
| -1.31 | 2.05 | 3.17 | | |
| -1.36 | 0.81 | 1.99 | | |
| -1.98 | 0.45 | 2.18 | | |
| -4.81 | -2.49 | 0.51 | | |
| -1.47 | -2.6 | -1.56 | | |
| -1.56 | -3.07 | -1.94 | | |
| -1.65 | -5.02 | -3.81 | | |
| -2.25 | -1.85 | -0.8 | | |
| -2.81 | -0.71 | 0.65 | | |
| -4.24 | -3.19 | -1.23 | | |
| -1.51 | -1.78 | -0.74 | | |
| -1.55 | 0.73 | 1.82 | | |
| 1.03 | -0.03 | 1.01 | | |
| -1.05 | 7.54 | 8.69 | | |
| -1.05 | 1.86 | 3.01 | | |
| -1.13 | 1.98 | 3.24 | | |
| -1.23 | -2.26 | -0.88 | | |
| -1.21 | 3.8 | 4.84 | | |
| -1.24 | -1.18 | -0.1 | | |
| -1.29 | 2.65 | 3.77 | | |
| -1.33 | -0.56 | 0.62 | | |
| -1.69 | 0.43 | 1.96 | | |
| 1.38 | -5.11 | -4.07 | | |
| 1.34 | -3.1 | -2.02 | | |
| 1.25 | -5.33 | -4.14 | | |
| 1.15 | 3.61 | 4.65 | | |
| -1.11 | -3.37 | -1.97 | | |
| -1.14 | 0.19 | 1.62 | | |
| -1.56 | -3.64 | -1.75 | | |
| -1.49 | -4.35 | -3.31 | | |
| -1.95 | -5.34 | -3.91 | | |
| -2.02 | 0.78 | 1.83 | | |
| -2.33 | 0.16 | 1.42 | | |
| -2.35 | 2.26 | 3.53 | | |
| -2.81 | 2.01 | 3.54 | | |
| -3.91 | 0.22 | 2.22 | | |
| -1.85 | -3.86 | -2.82 | | |
| -1.96 | -0.96 | 0.16 | | |
| -2.07 | -0.1 | 1.1 | | |
| -2.32 | -3.52 | -2.15 | | |
| -2.9 | -3.53 | -1.84 | | |
| -1.53 | -1.49 | -0.45 | | |
| -1.53 | -1.42 | -0.38 | | |
| -1.55 | -0.57 | 0.49 | | |
| 1.02 | 0.46 | 1.5 | | |
| -1.05 | -2.16 | -1.01 | | |
| -1.06 | 5.05 | 6.21 | | |
| -1.68 | -3.97 | -2.92 | | |
| -1.84 | -2.57 | -1.4 | | |
| -1.89 | -2.69 | -1.49 | | |
| -2.32 | 3.9 | 4.95 | | |
| -2.45 | -2.37 | -1.24 | | |
| -2.83 | -2.14 | -0.81 | | |
| -1 | -1.32 | -0.27 | | |
| -1.01 | -0.01 | 1.04 | | |
| -1.04 | -2.11 | -1.01 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.05 | -1.34 | -0.23 | | |
| -1.18 | -2.26 | -0.97 | | |
| -1.3 | -3.15 | -1.73 | | |
| -1.33 | -4.68 | -3.22 | | |
| -1.51 | 4.04 | 5.68 | | |
| 1.48 | -5.78 | -4.73 | | |
| 1.47 | -7.4 | -6.35 | | |
| 1.39 | -4.98 | -3.84 | | |
| 1.25 | -3.71 | -2.42 | | |
| 1.19 | -7.27 | -5.9 | | |
| 1.1 | -6.68 | -5.2 | | |
| 1.06 | -4.35 | -2.83 | | |
| -1.01 | -5.4 | -3.78 | | |
| -1.23 | -8.2 | -6.29 | | |
| -1.39 | -7.05 | -4.97 | | |
| -1.15 | -5.32 | -4.27 | | |
| -1.18 | -3.24 | -2.15 | | |
| -1.19 | -5.17 | -4.06 | | |
| -1.2 | -1.77 | -0.66 | | |
| -1.21 | -4.46 | -3.33 | | |
| -1.46 | -3.59 | -2.19 | | |
| -1.71 | -5.3 | -3.67 | | |
| -1.96 | -4.44 | -2.62 | | |
| -2.72 | -5.38 | -3.08 | | |
| 1.03 | -3.97 | -2.92 | | |
| 1.02 | -4.39 | -3.32 | | |
| -1.04 | -5.17 | -4.02 | | |
| -1.06 | -4.04 | -2.86 | | |
| -1.14 | -2.58 | -1.29 | | |
| -1.17 | -4.17 | -2.84 | | |
| -1.2 | -5.5 | -4.13 | | |
| -1.92 | -4.98 | -2.94 | | |
| -2.19 | -3.24 | -2.19 | | |
| -2.5 | -1.75 | -0.52 | | |
| -1.15 | 0.76 | 1.81 | | |
| -1.17 | 2.53 | 3.6 | | |
| -1.19 | -2.7 | -1.61 | | |
| -1.21 | -1.43 | -0.32 | | |
| -2.02 | -1.91 | -0.05 | | |
| -3.42 | -0.49 | 0.56 | | |
| -3.9 | 2.05 | 3.29 | | |
| -2.45 | -5.07 | -4.02 | | |
| -3.55 | -4 | -2.41 | | |
| -4.53 | -5.43 | -3.49 | | |
| -4.8 | -3.72 | -1.7 | | |
| -5.08 | -5.33 | -3.23 | | |
| -1.05 | -4.11 | -3.06 | | |
| -1.28 | 4.79 | 6.13 | | |
| 1.21 | 1.31 | 2.36 | | |
| -1.12 | -1.08 | 0.41 | | |
| -1.53 | -0.48 | 0.57 | | |
| -2.41 | 0.66 | 2.37 | | |
| -1.19 | -3.4 | -2.34 | | |
| -1.31 | -1.44 | -0.25 | | |
| -1.46 | -5.26 | -3.91 | | |
| -1.61 | -5.07 | -3.58 | | |
| -1.51 | -5.91 | -4.86 | | |
| -1.52 | -2.6 | -1.55 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.73 | -4.02 | -2.77 | | |
| -1.81 | -4.04 | -2.73 | | |
| -1.87 | -3.11 | -1.75 | | |
| -2.1 | -3.44 | -1.92 | | |
| 1.34 | -1.85 | -0.8 | | |
| 1.2 | 0.15 | 1.37 | | |
| 1.04 | -2.57 | -1.16 | | |
| 1.03 | -0.66 | 0.77 | | |
| 1.02 | 0.63 | 2.08 | | |
| -1.03 | -2.15 | -0.63 | | |
| -1.08 | -4.31 | -2.73 | | |
| -1.15 | 2.13 | 3.8 | | |
| -1.15 | -2.64 | -0.96 | | |
| -1.17 | -3.4 | -1.69 | | |
| -1.23 | -4.1 | -2.33 | | |
| -1.34 | -2.26 | -0.36 | | |
| -1.38 | -5.43 | -3.49 | | |
| -1.44 | -0.91 | 1.08 | | |
| -1.44 | -3.64 | -1.64 | | |
| -1.51 | -4.5 | -2.43 | | |
| -1.99 | -5.44 | -2.97 | | |
| 1.04 | -1.57 | -0.52 | | |
| -1.14 | 3.87 | 5.17 | | |
| -1.16 | -1 | 0.32 | | |
| -1.58 | 2.97 | 4.74 | | |
| -2.74 | -4.94 | -3.89 | | |
| -3.26 | -5.92 | -4.62 | | |
| -4.35 | -2.71 | -0.99 | | |
| -1.7 | -4.91 | -3.86 | | |
| -2.17 | -3.86 | -2.47 | | |
| -2.32 | -5.56 | -4.06 | | |
| -1.5 | -2.58 | -1.53 | | |
| -1.5 | 1.52 | 2.57 | | |
| -2.19 | -1.64 | -0.04 | | |
| -1.52 | 0.69 | 1.74 | | |
| -1.53 | -0.63 | 0.43 | | |
| -1.95 | -1.54 | -0.13 | | |
| -2.03 | -0.71 | 0.77 | | |
| 1.42 | 1.1 | 2.16 | | |
| 1.19 | -3.67 | -2.36 | | |
| -1.12 | -2.08 | -0.35 | | |
| -1.79 | -2.36 | -1.31 | | |
| -1.95 | -5 | -3.83 | | |
| -2.58 | -2.9 | -1.33 | | |
| 1.07 | -0.22 | 0.83 | | |
| 1.01 | 1.32 | 2.47 | | |
| -1.04 | 0.49 | 1.7 | | |
| -1.1 | -1.44 | -0.15 | | |
| -1.36 | -4.91 | -3.31 | | |
| 1.11 | 2.74 | 3.79 | | |
| -1.24 | -2.93 | -1.41 | | |
| -1.06 | 0.47 | 1.52 | | |
| -1.16 | -4.96 | -3.79 | | |
| -1.41 | -4.23 | -2.77 | | |
| 2.11 | -1.38 | -0.34 | | |
| 1.89 | 0.27 | 1.48 | | |
| 1.77 | 0.22 | 1.53 | | |
| 1.72 | -1.83 | -0.48 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.72 | -1.52 | -0.18 | | |
| 1.66 | -0.18 | 1.21 | | |
| 1.4 | 0.48 | 2.12 | | |
| 1.38 | -0.48 | 1.18 | | |
| 1.33 | -0.53 | 1.19 | | |
| 1.32 | -0.8 | 0.92 | | |
| 1.18 | -3.13 | -1.24 | | |
| 1.18 | -2.21 | -0.32 | | |
| 1.11 | -3.09 | -1.11 | | |
| -1.09 | -0.6 | 1.65 | | |
| -1.15 | -2.05 | 0.28 | | |
| -1.82 | 4.2 | 7.19 | | |
| -2.3 | -3.29 | 0.04 | | |
| -1.05 | 0.32 | 1.37 | | |
| -1.12 | -5.57 | -4.43 | | |
| -1.13 | -5.13 | -3.97 | | |
| -1.14 | 1.61 | 2.78 | | |
| -1.27 | -4.79 | -3.46 | | |
| -1.32 | -4.93 | -3.56 | | |
| -1.45 | -6.3 | -4.79 | | |
| -1.69 | -4.67 | -2.94 | | |
| -1.13 | -2.3 | -1.26 | | |
| -1.14 | -3.85 | -2.79 | | |
| -1.21 | 0.81 | 1.95 | | |
| -1.36 | -1.82 | -0.5 | | |
| -1.37 | -3.37 | -2.04 | | |
| -1.69 | -2.15 | -0.52 | | |
| 1.51 | 0.89 | 1.95 | | |
| 1.36 | 0.5 | 1.7 | | |
| 1.21 | 0.34 | 1.71 | | |
| -2.5 | -1.18 | -0.12 | | |
| -2.62 | -2.15 | -1.03 | | |
| -1.89 | -4.42 | -3.37 | | |
| -1.91 | -3.68 | -2.61 | | |
| -2.05 | -5.15 | -3.97 | | |
| -2.26 | -5.26 | -3.95 | | |
| -1.63 | 1.38 | 2.44 | | |
| -1.73 | -1.42 | -0.28 | | |
| -1.57 | -2.37 | -1.31 | | |
| -1.76 | -4.2 | -2.98 | | |
| -2.13 | -1.77 | -0.28 | | |
| -2.49 | -5.31 | -3.58 | | |
| 1.21 | -6.71 | -5.65 | | |
| 1.2 | -3.97 | -2.89 | | |
| 1.14 | -5.11 | -3.96 | | |
| 1.08 | -4.1 | -2.87 | | |
| 1.04 | -0.89 | 0.39 | | |
| -1.06 | -6.33 | -4.91 | | |
| -1.09 | -6.62 | -5.16 | | |
| -1.13 | 0.1 | 1.62 | | |
| -1.21 | -5.4 | -3.79 | | |
| -1.3 | -6 | -4.29 | | |
| -1.3 | -4.9 | -3.18 | | |
| -1.31 | -4.24 | -2.51 | | |
| -2.07 | -3.18 | -2.12 | | |
| -3.24 | -3.55 | -1.84 | | |
| 1.19 | -3.27 | -2.22 | | |
| 1.2 | -5.28 | -4.23 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.19 | -2.83 | -1.78 | | |
| 1.13 | -0.85 | 0.28 | | |
| 1.01 | -1.41 | -0.11 | | |
| -1.06 | -2.7 | -1.31 | | |
| -1.22 | -2.35 | -0.74 | | |
| -1.49 | -0.76 | 0.29 | | |
| -1.54 | 0.24 | 1.35 | | |
| -1.64 | -0.95 | 0.25 | | |
| -2.49 | -2.27 | -1.22 | | |
| -2.51 | -2.73 | -1.66 | | |
| -3.22 | -4.24 | -3.19 | | |
| -3.23 | -4.24 | -3.18 | | |
| -3.43 | -2.49 | -1.35 | | |
| -5.23 | -3.04 | -1.28 | | |
| 1.4 | 1.48 | 2.54 | | |
| 1.4 | -0.01 | 1.05 | | |
| 1.34 | -1.75 | -0.63 | | |
| 1.25 | -0.65 | 0.56 | | |
| 1.24 | -0.17 | 1.06 | | |
| 1.05 | 0.18 | 1.65 | | |
| -1.03 | 1.58 | 3.16 | | |
| -1.04 | -3.91 | -2.31 | | |
| -1.11 | 1.36 | 3.05 | | |
| -1.18 | -1.52 | 0.26 | | |
| -1.73 | -1.19 | 1.14 | | |
| -3.05 | -3.91 | -0.76 | | |
| -1.19 | -2.54 | -1.48 | | |
| -1.21 | -4.39 | -3.31 | | |
| -1.23 | -3.74 | -2.63 | | |
| -1.23 | -4.87 | -3.76 | | |
| -1.54 | -5.19 | -3.76 | | |
| 1.18 | -5.12 | -4.06 | | |
| 1.15 | -2.53 | -1.44 | | |
| 1.05 | -3.56 | -2.35 | | |
| 1.05 | -1.22 | -0.01 | | |
| -1.05 | -4.09 | -2.72 | | |
| -1.18 | -0.42 | 1.1 | | |
| -1.28 | -3.56 | -1.92 | | |
| -1.33 | 0.41 | 1.47 | | |
| -1.92 | -4.71 | -3.12 | | |
| -1.48 | -0.55 | 0.51 | | |
| -1.6 | -1.71 | -0.54 | | |
| -1.95 | -3.07 | -2.02 | | |
| -2.03 | 0.47 | 1.58 | | |
| -2.28 | -2.6 | -1.32 | | |
| -3.11 | -2.13 | -0.4 | | |
| -1.18 | -0.04 | 1.01 | | |
| -1.21 | -3.45 | -2.35 | | |
| -1.23 | -3.09 | -1.97 | | |
| -1.25 | -1.85 | -0.7 | | |
| -1.3 | -2.66 | -1.46 | | |
| -1.32 | -0.08 | 1.14 | | |
| -1.43 | -4.78 | -3.44 | | |
| -1.44 | -1.23 | 0.12 | | |
| -1.54 | -0.12 | 1.33 | | |
| -1.59 | -1.29 | 0.2 | | |
| -1.66 | -3.64 | -2.08 | | |
| -1.81 | -3.17 | -2.11 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.82 | -1.48 | -0.42 | | |
| -1.85 | -1.96 | -0.88 | | |
| 2 | -0.45 | 0.61 | | |
| 1.68 | -4.59 | -3.29 | | |
| 1.49 | -3.08 | -1.61 | | |
| 1.46 | 0.25 | 1.75 | | |
| 1.32 | -2.38 | -0.73 | | |
| 1.07 | -4.29 | -2.34 | | |
| 1.05 | -2.19 | -0.21 | | |
| -1.08 | -2.07 | 0.1 | | |
| -2.73 | 0.7 | 1.76 | | |
| -2.81 | -0.39 | 0.7 | | |
| -4.04 | -2.39 | -0.77 | | |
| -2.25 | -0.3 | 0.76 | | |
| -2.72 | -0.76 | 0.57 | | |
| -2.98 | -1.47 | 0 | | |
| -4.08 | -1.54 | 0.38 | | |
| -4.59 | -2.81 | -0.73 | | |
| -5.03 | -1.18 | 1.04 | | |
| -2.59 | 1.95 | 3.01 | | |
| -2.69 | 0.22 | 1.33 | | |
| -2.75 | -0.94 | 0.2 | | |
| -2.76 | -1.6 | -0.46 | | |
| -3.04 | -4.53 | -3.47 | | |
| -4.1 | -3.92 | -2.43 | | |
| -1.15 | 0.34 | 1.4 | | |
| -1.51 | 2.32 | 3.77 | | |
| -2.2 | -2.7 | -1.63 | | |
| -2.45 | -0.92 | 0.3 | | |
| -2.62 | -2.61 | -1.3 | | |
| -1.08 | -2.24 | -1.17 | | |
| -1.09 | -3.39 | -2.32 | | |
| -1.12 | 0.51 | 1.61 | | |
| -1.12 | 0.77 | 1.87 | | |
| -1.18 | -0.48 | 0.7 | | |
| -1.38 | -0.64 | 0.76 | | |
| -1.41 | -1.85 | -0.41 | | |
| -2.05 | -3.62 | -1.64 | | |
| -1.84 | -3.54 | -2.48 | | |
| -2.47 | -2.22 | -0.73 | | |
| -1.63 | -4.09 | -3.02 | | |
| -1.63 | -2.74 | -1.67 | | |
| -1.82 | -4.56 | -3.34 | | |
| -2.23 | -3.16 | -1.65 | | |
| -1.09 | -0.05 | 1.01 | | |
| -1.22 | -3.67 | -2.44 | | |
| -1.26 | -1 | 0.28 | | |
| -1.45 | -1.49 | -0.02 | | |
| -1.04 | 0.79 | 1.86 | | |
| -1.11 | -4.05 | -2.9 | | |
| -1.95 | -4.21 | -2.24 | | |
| -2.02 | 3.73 | 4.79 | | |
| -2.07 | -3.46 | -2.36 | | |
| -1.86 | -0.81 | 0.26 | | |
| -1.92 | -3.09 | -1.98 | | |
| -1.56 | 0.31 | 1.37 | | |
| -1.64 | 0.41 | 1.54 | | |
| -1.86 | -2 | -0.69 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.96 | -4.25 | -3.18 | | |
| -2.73 | -2.78 | -1.24 | | |
| -2.11 | -4.2 | -3.14 | | |
| -2.2 | -1.33 | -0.21 | | |
| -1.97 | -1.7 | -0.64 | | |
| -2.22 | -1.12 | 0.11 | | |
| -1.48 | -1.37 | -0.31 | | |
| -1.55 | -2.23 | -1.1 | | |
| -1.75 | 2.76 | 4.06 | | |
| -1.82 | -0.63 | 0.74 | | |
| -2 | 0.2 | 1.26 | | |
| -2.13 | 0.24 | 1.39 | | |
| -2.59 | -1.87 | -0.43 | | |
| -2.69 | -2.53 | -1.03 | | |
| -1.04 | 6.46 | 7.53 | | |
| -1.06 | -3.31 | -2.21 | | |
| -1.12 | -1.04 | 0.14 | | |
| -1.55 | -3.9 | -2.25 | | |
| -2.41 | -6.02 | -4.95 | | |
| -2.59 | -6.71 | -5.53 | | |
| -1.4 | -2.54 | -1.47 | | |
| -1.49 | -2.26 | -1.1 | | |
| -1.77 | 0.21 | 1.62 | | |
| 1.12 | -2.42 | -1.35 | | |
| -1.11 | 2.32 | 3.7 | | |
| -1.28 | 0.25 | 1.83 | | |
| -3.16 | -1.09 | -0.02 | | |
| -3.71 | -0.6 | 0.7 | | |
| -1.58 | -0.57 | 0.5 | | |
| -1.59 | 1.61 | 2.7 | | |
| -1.71 | -5.87 | -4.79 | | |
| -1.89 | -4.42 | -3.2 | | |
| -2.08 | -2.16 | -0.81 | | |
| -1.28 | 0.61 | 1.69 | | |
| -1.4 | -3.67 | -2.47 | | |
| -1.92 | -2.92 | -1.27 | | |
| -3.14 | -2.23 | -1.17 | | |
| -3.24 | -8.69 | -7.57 | | |
| -3.38 | -7.16 | -5.98 | | |
| -3.46 | -8.46 | -7.25 | | |
| -3.53 | -8.62 | -7.38 | | |
| -3.63 | -6.15 | -4.87 | | |
| -4.25 | -2.96 | -1.45 | | |
| -1.13 | -5.96 | -4.89 | | |
| -1.57 | -4.68 | -3.13 | | |
| -1.57 | -3.46 | -2.39 | | |
| -1.58 | -4.23 | -3.15 | | |
| -1.68 | -5.92 | -4.75 | | |
| 1.09 | 0.23 | 1.3 | | |
| -1.03 | -0.53 | 0.71 | | |
| 2.22 | 1.15 | 2.22 | | |
| 2.09 | -3.67 | -2.51 | | |
| 1.84 | 0.73 | 2.07 | | |
| 1.84 | -5.04 | -3.7 | | |
| 1.45 | -4.68 | -2.99 | | |
| 1.38 | -3.81 | -2.05 | | |
| 1.32 | -0.31 | 1.5 | | |
| 1.3 | -2.95 | -1.1 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.16 | -5.28 | -3.27 | | |
| 1.14 | -2.08 | -0.05 | | |
| 1.13 | -5.78 | -3.74 | | |
| 1.12 | -4.49 | -2.43 | | |
| 1.09 | -4.4 | -2.3 | | |
| -1.06 | -5.55 | -3.25 | | |
| -1.14 | -5.77 | -3.36 | | |
| -1.15 | -4.44 | -2.01 | | |
| -1.2 | -6.17 | -3.68 | | |
| -1.23 | -5.2 | -2.67 | | |
| -1.35 | -5.26 | -2.61 | | |
| -2.16 | -4.69 | -1.36 | | |
| -2.22 | 0.33 | 3.7 | | |
| -2.01 | -5.57 | -4.5 | | |
| -2.46 | -5.11 | -3.75 | | |
| -2.62 | -5.46 | -4 | | |
| -2.72 | -4.7 | -3.63 | | |
| -2.88 | -7.22 | -6.07 | | |
| -1.95 | -0.77 | 0.3 | | |
| -2.01 | -4.02 | -2.91 | | |
| -2.05 | -3.2 | -2.05 | | |
| -2.11 | -1.63 | -0.45 | | |
| -2.36 | -1.77 | -0.43 | | |
| -2.83 | -2.99 | -1.38 | | |
| -3.12 | -4.99 | -3.24 | | |
| -3.55 | -2.42 | -0.48 | | |
| -1.31 | -0.27 | 0.8 | | |
| -1.4 | -6.24 | -5.06 | | |
| -3.13 | -2.04 | -0.97 | | |
| -6.25 | -1.98 | 0.08 | | |
| -3.23 | -0.31 | 0.77 | | |
| -3.24 | -1.44 | -0.37 | | |
| -3.31 | -2.34 | -1.24 | | |
| -3.46 | -2.42 | -1.26 | | |
| -1.26 | -4.21 | -3.14 | | |
| -1.76 | -5.33 | -3.78 | | |
| -2.14 | -4.92 | -3.85 | | |
| -2.28 | -4.04 | -2.87 | | |
| -2.46 | -3.13 | -1.86 | | |
| -2.44 | 0.9 | 1.97 | | |
| -2.48 | 0.24 | 1.34 | | |
| -2.82 | -1.24 | 0.04 | | |
| -7.64 | -2.54 | 0.18 | | |
| -1.69 | -1.35 | -0.27 | | |
| -2.55 | -4.51 | -2.84 | | |
| -1.32 | 2.53 | 3.6 | | |
| -1.33 | 6.14 | 7.21 | | |
| -2.31 | -3.59 | -2.51 | | |
| -2.57 | -3.74 | -2.51 | | |
| -2.82 | -3.16 | -1.79 | | |
| -3.53 | -3.38 | -1.69 | | |
| -4.33 | -3.98 | -1.99 | | |
| -2.28 | -1.54 | -0.46 | | |
| -2.4 | -2.72 | -1.57 | | |
| 1.02 | 0.17 | 1.25 | | |
| -1.24 | 2.56 | 3.98 | | |
| -1.88 | 0.44 | 2.46 | | |
| -1.81 | -6.94 | -5.87 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.9 | -6.74 | -5.6 | | |
| -1.08 | -0.4 | 0.68 | | |
| -1.11 | -5.07 | -3.96 | | |
| -1.16 | -4.84 | -3.65 | | |
| -1.21 | 0.06 | 1.3 | | |
| -1.25 | -3.92 | -2.63 | | |
| -2.43 | -2.89 | -0.64 | | |
| -1.08 | -1.41 | -0.33 | | |
| -1.15 | -3.73 | -2.58 | | |
| -1.14 | -1.95 | -0.79 | | |
| -1.43 | -3.75 | -2.27 | | |
| -1.57 | -2.95 | -1.87 | | |
| -1.72 | 0.25 | 1.46 | | |
| -4.99 | -4.38 | -1.64 | | |
| -1.38 | 1.52 | 2.6 | | |
| -1.43 | 3.17 | 4.31 | | |
| -1.65 | 2.83 | 4.16 | | |
| -1.48 | -5.72 | -4.64 | | |
| -1.57 | -4.21 | -3.05 | | |
| -1.91 | -4.12 | -2.67 | | |
| -1.87 | -6.93 | -5.86 | | |
| -1.94 | -8.2 | -7.07 | | |
| -2.02 | -8.39 | -7.2 | | |
| 2.06 | 0.87 | 1.94 | | |
| 1.68 | -2.71 | -1.35 | | |
| 1.62 | -5.55 | -4.13 | | |
| 1.2 | -2.27 | -0.42 | | |
| -1.1 | -5.26 | -3 | | |
| -2.02 | -8.26 | -7.18 | | |
| -3.65 | -7.32 | -5.39 | | |
| -1.53 | -1.11 | -0.03 | | |
| -1.52 | -1.58 | -0.51 | | |
| -2.99 | 0.08 | 2.13 | | |
| -2.51 | 1.75 | 2.83 | | |
| -2.7 | 2.37 | 3.56 | | |
| -2.99 | 0.73 | 2.06 | | |
| -3.65 | -0.34 | 1.28 | | |
| -3.65 | 0.67 | 2.29 | | |
| -4.06 | -3.59 | -1.82 | | |
| -4.06 | 0.42 | 2.19 | | |
| -10.59 | -2.47 | 0.68 | | |
| 1.75 | -1.21 | -0.13 | | |
| 1.46 | -0.99 | 0.34 | | |
| 1.43 | 1.79 | 3.16 | | |
| 1.42 | 0.44 | 1.82 | | |
| 1.42 | 0.95 | 2.33 | | |
| 1.25 | -2.13 | -0.57 | | |
| 1.16 | 1.99 | 3.66 | | |
| 1.05 | -0.57 | 1.25 | | |
| 1.03 | 1.81 | 3.66 | | |
| -1.12 | -0.48 | 1.57 | | |
| -1.19 | -2.07 | 0.07 | | |
| -1.63 | -1.12 | -0.05 | | |
| -1.79 | -1.84 | -0.63 | | |
| 1.34 | -3.14 | -2.06 | | |
| 1.21 | 1.11 | 2.34 | | |
| 1.21 | 1.17 | 2.4 | | |
| 1.15 | 1.7 | 3 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.14 | -3.17 | -1.85 | | |
| 1.04 | -0.02 | 1.42 | | |
| -1 | 0.31 | 1.81 | | |
| -1.08 | -1.46 | 0.15 | | |
| -2.61 | -4.42 | -3.34 | | |
| -2.65 | -1.32 | -0.22 | | |
| -3.27 | -1.89 | -0.48 | | |
| -6.99 | -4.42 | -1.92 | | |
| -1.8 | 1.27 | 2.34 | | |
| -1.82 | -1.82 | -0.72 | | |
| -2.35 | -2.07 | -0.99 | | |
| -2.64 | -1.7 | -0.46 | | |
| -2.71 | -2.03 | -0.75 | | |
| -2.9 | -1.6 | -0.51 | | |
| -3.36 | -2.66 | -1.37 | | |
| -1 | -1.93 | -0.85 | | |
| -1.01 | -3.68 | -2.59 | | |
| -1.07 | -0.79 | 0.39 | | |
| -1.12 | -2.98 | -1.75 | | |
| -1.11 | -0.61 | 0.62 | | |
| -1.14 | 1.87 | 3.14 | | |
| -1.15 | -0.57 | 0.71 | | |
| -1.24 | -1.13 | 0.26 | | |
| -1.24 | -1.94 | -0.55 | | |
| -1.26 | -3.24 | -1.83 | | |
| -1.28 | 1.67 | 3.11 | | |
| -1.32 | 4.3 | 5.78 | | |
| -1.58 | -3.24 | -1.5 | | |
| -1.8 | -3.85 | -2.76 | | |
| -1.97 | -3.67 | -2.45 | | |
| -2.08 | -3.61 | -2.52 | | |
| -3.02 | -5.35 | -3.72 | | |
| -2.07 | -4.01 | -2.92 | | |
| -2.25 | -5.75 | -4.55 | | |
| -2.93 | -6.17 | -4.59 | | |
| -1.49 | -1.8 | -0.71 | | |
| -1.52 | 0.52 | 1.63 | | |
| 1.04 | -4.66 | -3.58 | | |
| -1.1 | -3.45 | -2.18 | | |
| -1.11 | -3.92 | -2.63 | | |
| 1 | 0.97 | 2.06 | | |
| -1.05 | -3.97 | -2.81 | | |
| -1.07 | -1.81 | -0.62 | | |
| -1.07 | -4.5 | -3.31 | | |
| -1.09 | -5.97 | -4.76 | | |
| -1.12 | -3.63 | -2.37 | | |
| -1.19 | -0.83 | 0.5 | | |
| -1.24 | -3.5 | -2.1 | | |
| -1.73 | -5.68 | -3.8 | | |
| -2.85 | 0.72 | 1.81 | | |
| -3.12 | -1.85 | -0.63 | | |
| 1.31 | -1.34 | -0.26 | | |
| 1.3 | -2.22 | -1.13 | | |
| 1.16 | 2.94 | 4.19 | | |
| 1.14 | 1.91 | 3.19 | | |
| -2.8 | 0.17 | 1.26 | | |
| -4.36 | -0.58 | 1.14 | | |
| -5.79 | -2.94 | -0.8 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.06 | -2.95 | -1.87 | | |
| -1.07 | -2.71 | -1.6 | | |
| -1.18 | 0.99 | 2.24 | | |
| -1.28 | -2.83 | -1.46 | | |
| -2.54 | -1.98 | -0.89 | | |
| -2.56 | -0.89 | 0.2 | | |
| -2.63 | -0.19 | 0.94 | | |
| -2.86 | 0.16 | 1.42 | | |
| -1.36 | -1.49 | -0.4 | | |
| -3.16 | -1.25 | 1.06 | | |
| 1.6 | 0.16 | 1.25 | | |
| 1.6 | -2.23 | -1.14 | | |
| 1.39 | -3.74 | -2.45 | | |
| 1.32 | -3.59 | -2.22 | | |
| 1.27 | -0.73 | 0.7 | | |
| 1.09 | -1.86 | -0.22 | | |
| 1.05 | -2.7 | -1 | | |
| 1.03 | -4.51 | -2.78 | | |
| 1.02 | -4.93 | -3.19 | | |
| -1.06 | -3.47 | -1.61 | | |
| -1.11 | 4.02 | 5.94 | | |
| -1.42 | -2.07 | -0.97 | | |
| -1.56 | -0.59 | 0.64 | | |
| 1.02 | -0.74 | 0.35 | | |
| -1.17 | -5.7 | -4.36 | | |
| -1.68 | -5.87 | -4.01 | | |
| -1.77 | -5.8 | -4.71 | | |
| -2.16 | -5.89 | -4.52 | | |
| 1.28 | -3.38 | -2.28 | | |
| 1.28 | -6.76 | -5.67 | | |
| 1.25 | -5.26 | -4.13 | | |
| 1.16 | -4.14 | -2.9 | | |
| 1.07 | -4.36 | -3 | | |
| 1.01 | -2.75 | -1.32 | | |
| -1.06 | -1.5 | 0.04 | | |
| -1.21 | -4.88 | -3.15 | | |
| -1.28 | -3.46 | -2.37 | | |
| -1.31 | -3.65 | -2.54 | | |
| -1.45 | -3.17 | -1.9 | | |
| 1.09 | 1.43 | 2.53 | | |
| 1.09 | -1.33 | -0.23 | | |
| -2.92 | -2.09 | 0.68 | | |
| -1.54 | -2.64 | -1.55 | | |
| -1.62 | -3.14 | -1.98 | | |
| -1.57 | -1.93 | -0.84 | | |
| -2.39 | -2.3 | -0.6 | | |
| -2.83 | -0.55 | 0.54 | | |
| -2.93 | -1.55 | -0.41 | | |
| -3.05 | -1.1 | 0.1 | | |
| -4.17 | -0.54 | 1.11 | | |
| -2.48 | -2.57 | -1.48 | | |
| -5.04 | -3.21 | -1.1 | | |
| -2.89 | -2.86 | -1.77 | | |
| -2.91 | -2.61 | -1.52 | | |
| 1.08 | -3.12 | -2.02 | | |
| 1.06 | 2.85 | 3.97 | | |
| 1.06 | -2.23 | -1.11 | | |
| 1.03 | -0.9 | 0.27 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.02 | -3.14 | -1.96 | | |
| -1.03 | -0.15 | 1.11 | | |
| -1.09 | -2.38 | -1.05 | | |
| -1.11 | -0.85 | 0.51 | | |
| -1.14 | -2.21 | -0.82 | | |
| -1.56 | -1.87 | -0.02 | | |
| 1.23 | -4.32 | -3.23 | | |
| 1.23 | -4.8 | -3.71 | | |
| 1.21 | -6.93 | -5.82 | | |
| 1.05 | -6.35 | -5.02 | | |
| 1.28 | 1.3 | 2.38 | | |
| 1.07 | -3.22 | -1.87 | | |
| 1.31 | 0.09 | 1.18 | | |
| 1.22 | 2.1 | 3.3 | | |
| 1.04 | 1.93 | 3.36 | | |
| -1.02 | -3.03 | -1.51 | | |
| -1.09 | -3.55 | -1.95 | | |
| 1.18 | -1.47 | -0.38 | | |
| 1.15 | 5.36 | 6.48 | | |
| 1.03 | 0.62 | 1.91 | | |
| -1.02 | -2.25 | -0.89 | | |
| -1.03 | -1.5 | -0.14 | | |
| -1.06 | -2.03 | -0.61 | | |
| -1.12 | 2.61 | 4.1 | | |
| -2.15 | -2.56 | -0.13 | | |
| -2.02 | -1.23 | -0.13 | | |
| -2.05 | -1.91 | -0.79 | | |
| -2.98 | -1.03 | 0.62 | | |
| -3.15 | -2.85 | -1.12 | | |
| -2.28 | -1.2 | -0.11 | | |
| -2.37 | -1.98 | -0.84 | | |
| -2.4 | -1.87 | -0.71 | | |
| -2.95 | 0.35 | 1.81 | | |
| -1.14 | -3.04 | -1.95 | | |
| -2.02 | -1.05 | 0.87 | | |
| -1.1 | -0.46 | 0.63 | | |
| -1.21 | 1.33 | 2.56 | | |
| -1.28 | -2.28 | -0.96 | | |
| -1.83 | -0.5 | 1.33 | | |
| -2.09 | -1.87 | -0.79 | | |
| -2.17 | -1.8 | -0.66 | | |
| -2.31 | -3.46 | -2.23 | | |
| -2.38 | -2.21 | -0.93 | | |
| -5.84 | -3.13 | -0.56 | | |
| -2.63 | -2.25 | -1.16 | | |
| -3.18 | -2.67 | -1.3 | | |
| -4.09 | -2.39 | -0.66 | | |
| -1.07 | 3.79 | 4.88 | | |
| -1.09 | 2.6 | 3.74 | | |
| -1.1 | 2.43 | 3.57 | | |
| -1.1 | -2.01 | -0.86 | | |
| -1.23 | -6.47 | -5.37 | | |
| -1.24 | -4.84 | -3.74 | | |
| -1.3 | -4.77 | -3.61 | | |
| -1.32 | 0.09 | 1.29 | | |
| -1.34 | -4.22 | -3 | | |
| -1.78 | -5.55 | -3.92 | | |
| -1.87 | -6.28 | -4.58 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.01 | 6.54 | 7.64 | | |
| -1.04 | 0.01 | 1.17 | | |
| -1.23 | -1.37 | 0.04 | | |
| -1.31 | 2.1 | 3.6 | | |
| 1.21 | -4.31 | -3.21 | | |
| 1.2 | 1.37 | 2.48 | | |
| 1.07 | 3.35 | 4.62 | | |
| -1.33 | -5.56 | -3.77 | | |
| -1.72 | -3.92 | -1.76 | | |
| -1.48 | -0.36 | 0.74 | | |
| -1.77 | -1.28 | 0.07 | | |
| -5.12 | 0.37 | 3.26 | | |
| -1.88 | -2.74 | -1.64 | | |
| -2.11 | -2.36 | -1.1 | | |
| -2.76 | -6.75 | -5.1 | | |
| 1.8 | -1.11 | -0.01 | | |
| 1.8 | -3.64 | -2.54 | | |
| 1.62 | -3.82 | -2.57 | | |
| 1.49 | 0.38 | 1.76 | | |
| 1.47 | -1.42 | -0.04 | | |
| 1.44 | -5.08 | -3.66 | | |
| 1.34 | -2.4 | -0.88 | | |
| 1.29 | -4.19 | -2.61 | | |
| 1.27 | -1.91 | -0.31 | | |
| 1.16 | -2.7 | -0.97 | | |
| 1.04 | -2.2 | -0.31 | | |
| 1.03 | -1.76 | 0.14 | | |
| -1.04 | 2.37 | 4.38 | | |
| -1.11 | 4.06 | 6.16 | | |
| -1.23 | -6.15 | -3.91 | | |
| -1.52 | -5.32 | -2.76 | | |
| -1.72 | -5.77 | -3.04 | | |
| -1.75 | -0.59 | 0.51 | | |
| -2.02 | -1.39 | -0.08 | | |
| -2.19 | -2.44 | -1.02 | | |
| -4.66 | -3.75 | -1.24 | | |
| -1.09 | 3.4 | 4.5 | | |
| -1.15 | 3.66 | 4.84 | | |
| -1.23 | 3.38 | 4.65 | | |
| -1.34 | 0.83 | 2.23 | | |
| 1.21 | -4.55 | -3.45 | | |
| 1.16 | -3.03 | -1.86 | | |
| 1.13 | -4.48 | -3.28 | | |
| -1.21 | -4.62 | -2.98 | | |
| -1.48 | -7.84 | -5.9 | | |
| -1.74 | -3.96 | -1.79 | | |
| -1.84 | -1.66 | -0.56 | | |
| -3.44 | -2.72 | -0.71 | | |
| -1.53 | -2.78 | -1.69 | | |
| -1.74 | -2.86 | -1.58 | | |
| -1.2 | -8.53 | -7.44 | | |
| -2.06 | -8.62 | -6.75 | | |
| -2.7 | -2.76 | -1.66 | | |
| -3.28 | -5.06 | -3.68 | | |
| -2.04 | -3.63 | -2.54 | | |
| -2.18 | -3.35 | -2.16 | | |
| -2.2 | -2.99 | -1.79 | | |
| -2.25 | -0.5 | 0.74 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.26 | -4.05 | -2.8 | | |
| -2.31 | -2.55 | -1.28 | | |
| -2.31 | -0.99 | 0.28 | | |
| -2.4 | -2.25 | -0.92 | | |
| -3.55 | -0.85 | 0.25 | | |
| -4.1 | -0.32 | 0.98 | | |
| -4.76 | -3.13 | -1.61 | | |
| 1.03 | 0.51 | 1.61 | | |
| -1 | 6.76 | 7.91 | | |
| -1.42 | -3.1 | -1.45 | | |
| 8.59 | -1.15 | -0.06 | | |
| 7.7 | -1.14 | 0.11 | | |
| 2.95 | -0.37 | 2.27 | | |
| -1.61 | -4.85 | -3.75 | | |
| -1.87 | -1.4 | -0.08 | | |
| -2.46 | -3.89 | -2.17 | | |
| -1.89 | 0.46 | 1.55 | | |
| -4.33 | -0.57 | 1.72 | | |
| -1.89 | 0.46 | 1.55 | | |
| -4.33 | -0.57 | 1.72 | | |
| -2.57 | 0.32 | 1.42 | | |
| -2.69 | 0.21 | 1.38 | | |
| -2.33 | -1.24 | -0.13 | | |
| -2.99 | -1.48 | -0.02 | | |
| -1.46 | -2.18 | -1.07 | | |
| -2.13 | 1.53 | 3.18 | | |
| 3.21 | -5.51 | -4.4 | | |
| 2.91 | -5.75 | -4.5 | | |
| 1.93 | -5.59 | -3.75 | | |
| 1.89 | -4.01 | -2.14 | | |
| 1.44 | -3.83 | -1.57 | | |
| 1.4 | -6.57 | -4.26 | | |
| -1.99 | -2.39 | -1.28 | | |
| -2.2 | -1.91 | -0.66 | | |
| 1.23 | -4.01 | -2.91 | | |
| 1.14 | -1.92 | -0.7 | | |
| 1.06 | -4.96 | -3.64 | | |
| 1.06 | -2.01 | -0.69 | | |
| 1.04 | -4.77 | -3.43 | | |
| -1.01 | 4.33 | 5.75 | | |
| -1.12 | -2.42 | -0.85 | | |
| -1.52 | -2.99 | -1.89 | | |
| -2.1 | -1.82 | -0.25 | | |
| 1.27 | -0.02 | 1.08 | | |
| 1.03 | 4.94 | 6.34 | | |
| -1.11 | 1.69 | 3.29 | | |
| -1.41 | 3.31 | 5.25 | | |
| -1.63 | -0.52 | 0.58 | | |
| -1.76 | 1.17 | 2.39 | | |
| -1.86 | -2.23 | -1.13 | | |
| -2.73 | -2 | -0.35 | | |
| 1.08 | -3.5 | -2.4 | | |
| 1.06 | -4.61 | -3.48 | | |
| -1.07 | -5.7 | -4.39 | | |
| -1.17 | -5.45 | -4.01 | | |
| -1.25 | -1.02 | 0.51 | | |
| -1.53 | -2.97 | -1.15 | | |
| 1.13 | -6.28 | -5.18 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.06 | -1.48 | -0.28 | | |
| 1.03 | 1.27 | 2.51 | | |
| -2.11 | -3.06 | -1.95 | | |
| -2.37 | 0.01 | 1.28 | | |
| -2.98 | -2.01 | -0.41 | | |
| -2.29 | -3.13 | -2.02 | | |
| -2.86 | -4.03 | -2.6 | | |
| 1.32 | 0.44 | 1.55 | | |
| 1.27 | -3 | -1.84 | | |
| 1.17 | -3.99 | -2.71 | | |
| 1.13 | -2.33 | -1 | | |
| -1.13 | 0.59 | 2.28 | | |
| -1.16 | 0.05 | 1.76 | | |
| -1.05 | -3.91 | -2.81 | | |
| -1.08 | -3.33 | -2.19 | | |
| -1.78 | 1.21 | 3.07 | | |
| -2.1 | -3.09 | -1.98 | | |
| -2.28 | -2.61 | -1.38 | | |
| -1.79 | 2.32 | 3.43 | | |
| -1.9 | -0.95 | 0.24 | | |
| -2.23 | 0.28 | 1.71 | | |
| -4.85 | -4.44 | -1.9 | | |
| 1.03 | -0.81 | 0.3 | | |
| 1.02 | -3.44 | -2.33 | | |
| -1.02 | -0.32 | 0.86 | | |
| -1.04 | -2.28 | -1.08 | | |
| -1.05 | -1.13 | 0.08 | | |
| -1.19 | -1.39 | 0.01 | | |
| -1.29 | -2.98 | -1.47 | | |
| 1.03 | -0.81 | 0.3 | | |
| 1.02 | -3.44 | -2.33 | | |
| -1.02 | -0.32 | 0.86 | | |
| -1.04 | -2.28 | -1.08 | | |
| -1.05 | -1.13 | 0.08 | | |
| -1.19 | -1.39 | 0.01 | | |
| -1.29 | -2.98 | -1.47 | | |
| 1.03 | -0.81 | 0.3 | | |
| 1.02 | -3.44 | -2.33 | | |
| -1.02 | -0.32 | 0.86 | | |
| -1.04 | -2.28 | -1.08 | | |
| -1.05 | -1.13 | 0.08 | | |
| -1.19 | -1.39 | 0.01 | | |
| -1.29 | -2.98 | -1.47 | | |
| 1.03 | -0.81 | 0.3 | | |
| 1.02 | -3.44 | -2.33 | | |
| -1.02 | -0.32 | 0.86 | | |
| -1.04 | -2.28 | -1.08 | | |
| -1.05 | -1.13 | 0.08 | | |
| -1.19 | -1.39 | 0.01 | | |
| -1.29 | -2.98 | -1.47 | | |
| 1.03 | -0.98 | 0.12 | | |
| 1.02 | -3.61 | -2.5 | | |
| -1.02 | -0.49 | 0.69 | | |
| -1.04 | -2.45 | -1.25 | | |
| -1.05 | -1.3 | -0.09 | | |
| -1.19 | -1.56 | -0.16 | | |
| -1.29 | -3.14 | -1.64 | | |
| 1.03 | -0.98 | 0.12 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.02 | -3.61 | -2.5 | | |
| -1.02 | -0.49 | 0.69 | | |
| -1.04 | -2.45 | -1.25 | | |
| -1.05 | -1.3 | -0.09 | | |
| -1.19 | -1.56 | -0.16 | | |
| -1.29 | -3.14 | -1.64 | | |
| -1.59 | -0.66 | 0.46 | | |
| -1.9 | -0.85 | 0.52 | | |
| -1.7 | -2.27 | -1.16 | | |
| -2.8 | -2.13 | -0.3 | | |
| 1.19 | -3.05 | -1.94 | | |
| -1.07 | -0.63 | 0.83 | | |
| -1.16 | -0.6 | 0.98 | | |
| -2.48 | -5.75 | -4.64 | | |
| -2.96 | -4.17 | -2.8 | | |
| -2.96 | -4.29 | -2.91 | | |
| -3.6 | -3.35 | -1.7 | | |
| -19.28 | -5.16 | -1.08 | | |
| -24.52 | -6.39 | -1.97 | | |
| -1.11 | -3.78 | -2.68 | | |
| -1.32 | -3.2 | -1.84 | | |
| -2.32 | -0.76 | 0.34 | | |
| -2.57 | -2.45 | -1.19 | | |
| -2.57 | -2.91 | -1.65 | | |
| -2.64 | -1.45 | -0.15 | | |
| -1.63 | -4.65 | -3.54 | | |
| -1.68 | -1.83 | -0.68 | | |
| -1.81 | -5.8 | -4.54 | | |
| -2.09 | -2.73 | -1.62 | | |
| -2.15 | -3.15 | -1.99 | | |
| -2.27 | -0.29 | 0.94 | | |
| -2.77 | -3.45 | -1.93 | | |
| 6.5 | 0.26 | 1.37 | | |
| 6.07 | 0.57 | 1.78 | | |
| 2.12 | -5.37 | -2.65 | | |
| 1.73 | -7.44 | -4.42 | | |
| -1.62 | -1.03 | 0.08 | | |
| -2.09 | -1.74 | -0.26 | | |
| -3.71 | -0.97 | 0.14 | | |
| -3.84 | 0.83 | 1.99 | | |
| -3.95 | -2.28 | -1.08 | | |
| -4.64 | -1.2 | 0.24 | | |
| -5.16 | -2.55 | -0.96 | | |
| -2.41 | 1.11 | 2.21 | | |
| -2.43 | 2.02 | 3.14 | | |
| -2.43 | -2.47 | -1.35 | | |
| -2.6 | -0.18 | 1.04 | | |
| -2.63 | -0.65 | 0.59 | | |
| -3.04 | -0.11 | 1.34 | | |
| -3.84 | -3.9 | -2.12 | | |
| 1.01 | -0.83 | 0.28 | | |
| -1.02 | -3.88 | -2.73 | | |
| -2.17 | -3.13 | -2.02 | | |
| -2.64 | -0.12 | 1.28 | | |
| -3.01 | -0.77 | 0.82 | | |
| 2.42 | -0.2 | 0.91 | | |
| 1.84 | -4.69 | -3.18 | | |
| 1.71 | -3.7 | -2.08 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.11 | -0.25 | 2.29 | | |
| -2.17 | 0.29 | 1.4 | | |
| -2.36 | -2.15 | -0.92 | | |
| -2.37 | -2.35 | -1.11 | | |
| -2.08 | 1.29 | 2.41 | | |
| -2.27 | -1.44 | -0.21 | | |
| -1.78 | -0.05 | 1.06 | | |
| -1.98 | 1.48 | 2.74 | | |
| -4.36 | 0.96 | 3.36 | | |
| 1 | 2.26 | 3.38 | | |
| -1.09 | 1.69 | 2.94 | | |
| -1.14 | -2.38 | -1.06 | | |
| -1.18 | 1.28 | 2.65 | | |
| -1.25 | 2.23 | 3.67 | | |
| -1.88 | 1.01 | 2.13 | | |
| -1.89 | 0.12 | 1.25 | | |
| -2.2 | -2 | -0.65 | | |
| -2.3 | -3.25 | -1.84 | | |
| -2.45 | -3.14 | -1.64 | | |
| -2.45 | -2.62 | -1.5 | | |
| -3.13 | -0.65 | 0.83 | | |
| -3.66 | -3.05 | -1.35 | | |
| -1.69 | -4.79 | -3.68 | | |
| -1.83 | -8.99 | -7.76 | | |
| -1.84 | -2.96 | -1.72 | | |
| -1.88 | -3.68 | -2.41 | | |
| -3.29 | -3.65 | -1.57 | | |
| 1.02 | -3.44 | -2.32 | | |
| -1.09 | -2.53 | -1.27 | | |
| -1.19 | -0.05 | 1.06 | | |
| -1.62 | -1.63 | -0.07 | | |
| -2.57 | -3.53 | -2.41 | | |
| -3.06 | -5.74 | -4.37 | | |
| -3.41 | -3.15 | -2.03 | | |
| -3.46 | -3.15 | -2.01 | | |
| -1.1 | -0.19 | 0.93 | | |
| -1.13 | -1.54 | -0.38 | | |
| -1.24 | 3.09 | 4.38 | | |
| 2.76 | -2.37 | -1.25 | | |
| 2.51 | -0.02 | 1.23 | | |
| 2.24 | -4.22 | -2.81 | | |
| 2.04 | -4.05 | -2.5 | | |
| 1.92 | -2.91 | -1.28 | | |
| 1.89 | -3.53 | -1.87 | | |
| 1.68 | -1.88 | -0.05 | | |
| 1.12 | -2.83 | -0.41 | | |
| -1.08 | -0.91 | 1.78 | | |
| -1.48 | -1.81 | 1.34 | | |
| -1.58 | 0.04 | 1.16 | | |
| -2.05 | -0.22 | 1.26 | | |
| -2.09 | 1.55 | 3.07 | | |
| -1.7 | -0.83 | 0.29 | | |
| -1.87 | -3.29 | -2.03 | | |
| -1.57 | -4.56 | -3.44 | | |
| -1.6 | -3.46 | -2.31 | | |
| -1.61 | -4.72 | -3.57 | | |
| -1.64 | -2.25 | -1.06 | | |
| -1.65 | -1.84 | -0.64 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.79 | -2.56 | -1.25 | | |
| -1.85 | -3.85 | -2.48 | | |
| -3.35 | -2.52 | -1.4 | | |
| -3.35 | -2.52 | -1.4 | | |
| -3.35 | -2.52 | -1.4 | | |
| -3.4 | 0.22 | 1.35 | | |
| -3.58 | 0.23 | 1.44 | | |
| -3.44 | 0.09 | 1.22 | | |
| -3.47 | 0.19 | 1.33 | | |
| -3.71 | 0.01 | 1.24 | | |
| -3.84 | 0.07 | 1.35 | | |
| -10.36 | -2.12 | 0.6 | | |
| 1.66 | -1.81 | -0.69 | | |
| 1.16 | 2.95 | 4.58 | | |
| 1.06 | -0.85 | 0.92 | | |
| 1.03 | 0.9 | 2.72 | | |
| -1 | -0.57 | 1.29 | | |
| -1.57 | -1.29 | -0.16 | | |
| -1.94 | -0.42 | 1.01 | | |
| 1.16 | -0.14 | 0.98 | | |
| 1.14 | -1.9 | -0.74 | | |
| 1.08 | 6.8 | 8.03 | | |
| 1.06 | -1.52 | -0.27 | | |
| 1.04 | 5.88 | 7.17 | | |
| -1.16 | 2.75 | 4.3 | | |
| -1.17 | 1.38 | 2.94 | | |
| -1.26 | 3.97 | 5.63 | | |
| -1.4 | 2.45 | 4.27 | | |
| -2.12 | -0.56 | 0.56 | | |
| -2.65 | -3.05 | -1.6 | | |
| -3.41 | -4.02 | -2.2 | | |
| 1.6 | -1.17 | -0.05 | | |
| 1.58 | -4.17 | -3.03 | | |
| 1.35 | 1.81 | 3.18 | | |
| 1.33 | -0.84 | 0.54 | | |
| 1.32 | -1.4 | -0.01 | | |
| 1.32 | -0.48 | 0.92 | | |
| 1.3 | 0.17 | 1.59 | | |
| 1.27 | -0.38 | 1.07 | | |
| 1.21 | -2.14 | -0.61 | | |
| 1.19 | 0.09 | 1.63 | | |
| 1.19 | -1.15 | 0.4 | | |
| 1.13 | -2.77 | -1.15 | | |
| 1.09 | -0.12 | 1.55 | | |
| 1.06 | -3.85 | -2.14 | | |
| -1.11 | -3.41 | -1.46 | | |
| -1.13 | -0.1 | 1.87 | | |
| -1.13 | -3.92 | -1.95 | | |
| -1.14 | -4.42 | -2.42 | | |
| -1.16 | -2.48 | -0.47 | | |
| -1.16 | -4.87 | -2.85 | | |
| -1.49 | -4.55 | -2.18 | | |
| -1.55 | -4.73 | -2.3 | | |
| -1.61 | -1.93 | 0.56 | | |
| -2.74 | -1.88 | -0.76 | | |
| -3.75 | -4.82 | -3.24 | | |
| -4.05 | -3.49 | -1.8 | | |
| 1.49 | 1.26 | 2.38 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.39 | -2.53 | -1.3 | | |
| 1.1 | -2.9 | -1.33 | | |
| -1.01 | 3.17 | 4.89 | | |
| -1.04 | 0.02 | 1.77 | | |
| -1.05 | 1.9 | 3.67 | | |
| -1.14 | 1.05 | 2.94 | | |
| -1.32 | -3.04 | -0.93 | | |
| -2.05 | -3.3 | -2.17 | | |
| -2.08 | -3.96 | -2.82 | | |
| -2.13 | -1.58 | -0.4 | | |
| -3.1 | -2.66 | -0.94 | | |
| 1.07 | -4.16 | -3.04 | | |
| 1.07 | -4.93 | -3.8 | | |
| 1.01 | -0.3 | 0.9 | | |
| -1.01 | 1.31 | 2.55 | | |
| -1.02 | -5.77 | -4.52 | | |
| -1.04 | -3.93 | -2.65 | | |
| -1.06 | -2.89 | -1.58 | | |
| -1.09 | -3.21 | -1.86 | | |
| -1.31 | -3.16 | -1.55 | | |
| -1.51 | -1.96 | -0.14 | | |
| -1.81 | -5.09 | -3.01 | | |
| -1.53 | -5.21 | -4.09 | | |
| -1.57 | -7.03 | -5.87 | | |
| -1.96 | -2.32 | -1.19 | | |
| -2.4 | -1.94 | -0.52 | | |
| -2.44 | -1.53 | -0.08 | | |
| -2.61 | -2.19 | -1.06 | | |
| -2.63 | -1.9 | -0.76 | | |
| -3.37 | -1.01 | 0.49 | | |
| -3.66 | -0.84 | 0.78 | | |
| -1.24 | 4.28 | 5.41 | | |
| -1.53 | -3.67 | -2.24 | | |
| -2.09 | -3.26 | -1.38 | | |
| -2.49 | -1.38 | -0.25 | | |
| -3.51 | -2.77 | -1.14 | | |
| -1.21 | 0.73 | 1.87 | | |
| -1.33 | -1.02 | 0.25 | | |
| -1.41 | 1.43 | 2.78 | | |
| -1.43 | -1.39 | -0.01 | | |
| -1.67 | -0.03 | 1.57 | | |
| -2.7 | -3.09 | -1.95 | | |
| -3.06 | -4.26 | -2.94 | | |
| 1 | -4.39 | -3.25 | | |
| -1.01 | -6.07 | -4.92 | | |
| -1.03 | -4.31 | -3.13 | | |
| -1.05 | -4.1 | -2.89 | | |
| -1.66 | -2.13 | -0.99 | | |
| -1.79 | -2.65 | -1.41 | | |
| -1.57 | 0.12 | 1.26 | | |
| -2.3 | -3.99 | -2.31 | | |
| -2.4 | -0.93 | 0.82 | | |
| -2.14 | -1.93 | -0.79 | | |
| -2.34 | -2.8 | -1.53 | | |
| -2.5 | -2.69 | -1.32 | | |
| -2.98 | -4.57 | -2.95 | | |
| -1.62 | 1.66 | 2.8 | | |
| -1.76 | -1.56 | -0.31 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.46 | -1.06 | 0.67 | | |
| -1.38 | -0.27 | 0.87 | | |
| -1.47 | -1.76 | -0.53 | | |
| -3.13 | -0.83 | 0.31 | | |
| -3.49 | -0.34 | 0.96 | | |
| -4.47 | -3.02 | -1.37 | | |
| -4.65 | -2.36 | -0.65 | | |
| -4.78 | -0.22 | 1.53 | | |
| -25.02 | -4.26 | -0.12 | | |
| 4.38 | -2.52 | -1.38 | | |
| 4.29 | -2.58 | -1.41 | | |
| 4.16 | -0.4 | 0.81 | | |
| 3.55 | -2.78 | -1.34 | | |
| 3.38 | -0.56 | 0.95 | | |
| 3.34 | -0.62 | 0.91 | | |
| 3.06 | -1.25 | 0.4 | | |
| 2.98 | -1.7 | 0 | | |
| 2.85 | -3.87 | -2.11 | | |
| 2.84 | -1.26 | 0.51 | | |
| 2.76 | -1.72 | 0.08 | | |
| 2.72 | -2.28 | -0.45 | | |
| 2.58 | -0.71 | 1.19 | | |
| 2.55 | 0.61 | 2.53 | | |
| 2.5 | -0.93 | 1.03 | | |
| 2.47 | -4.05 | -2.08 | | |
| 2.45 | -0.88 | 1.11 | | |
| 2.43 | -2.87 | -0.88 | | |
| 2.29 | -1.35 | 0.73 | | |
| 2.21 | -0.11 | 2.02 | | |
| 2.21 | -2.26 | -0.14 | | |
| 2.2 | -1.51 | 0.62 | | |
| 2.08 | -2.27 | -0.06 | | |
| 2 | -0.87 | 1.4 | | |
| 1.99 | -0.49 | 1.79 | | |
| 1.99 | -1 | 1.28 | | |
| 1.97 | -0.43 | 1.86 | | |
| 1.82 | -1.3 | 1.1 | | |
| 1.78 | -1.82 | 0.62 | | |
| 1.7 | -0.27 | 2.23 | | |
| 1.69 | -2.27 | 0.25 | | |
| 1.66 | -2.32 | 0.22 | | |
| 1.65 | -2.91 | -0.36 | | |
| 1.61 | -1.3 | 1.28 | | |
| 1.6 | -3.36 | -0.76 | | |
| 1.57 | -2.98 | -0.36 | | |
| 1.56 | -1.98 | 0.65 | | |
| 1.52 | -2.44 | 0.23 | | |
| 1.5 | -1.25 | 1.43 | | |
| 1.48 | -3.96 | -1.26 | | |
| 1.48 | -3.81 | -1.11 | | |
| 1.45 | -1.91 | 0.82 | | |
| 1.4 | -0.94 | 1.84 | | |
| 1.34 | -1.44 | 1.4 | | |
| 1.3 | -1.71 | 1.18 | | |
| 1.24 | -0.23 | 2.73 | | |
| 1.2 | -1.77 | 1.23 | | |
| 1.2 | -1.31 | 1.69 | | |
| 1.11 | -3.06 | 0.06 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.11 | -1.02 | 2.1 | | |
| 1.08 | -3.13 | 0.02 | | |
| 1.07 | -2.77 | 0.4 | | |
| -1.03 | -1.19 | 2.12 | | |
| -1.06 | -2.47 | 0.88 | | |
| -1.13 | -1.51 | 1.94 | | |
| -1.24 | -2.19 | 1.39 | | |
| -1.26 | -2.69 | 0.92 | | |
| -1.79 | -0.27 | 0.87 | | |
| -2.33 | 0.86 | 2.38 | | |
| -2.82 | 4.13 | 5.93 | | |
| -4.43 | 4.19 | 6.64 | | |
| -23.72 | -0.95 | 3.92 | | |
| -1.79 | -0.27 | 0.87 | | |
| -2.33 | 0.86 | 2.38 | | |
| -2.82 | 4.13 | 5.93 | | |
| -4.43 | 4.19 | 6.64 | | |
| -23.72 | -0.95 | 3.92 | | |
| -1.77 | -4.61 | -3.47 | | |
| -1.83 | -4.45 | -3.26 | | |
| -2.41 | -5.26 | -3.66 | | |
| -1.39 | 3.75 | 4.9 | | |
| -1.54 | -5.47 | -4.18 | | |
| -1.68 | -3.17 | -1.75 | | |
| -2.54 | -0.08 | 1.07 | | |
| -2.91 | -1.12 | 0.22 | | |
| -2.58 | -1.75 | -0.61 | | |
| -2.77 | -0.02 | 1.23 | | |
| -4.04 | -1.27 | 0.52 | | |
| -1.65 | -6.28 | -5.14 | | |
| -2.4 | -4.43 | -2.75 | | |
| 2.31 | -0.82 | 0.32 | | |
| 2.3 | -2.04 | -0.89 | | |
| 2 | -2.19 | -0.83 | | |
| 1.84 | -1.89 | -0.41 | | |
| 1.76 | -2.93 | -1.39 | | |
| 1.62 | -2.08 | -0.41 | | |
| 1.55 | 1.07 | 2.79 | | |
| 1.52 | -2.11 | -0.36 | | |
| 1.22 | -2.98 | -0.91 | | |
| 1.22 | -1.65 | 0.43 | | |
| 1.16 | -0.14 | 2.01 | | |
| 1.09 | -2.53 | -0.31 | | |
| 1.07 | -0.39 | 1.87 | | |
| 1.04 | -1.54 | 0.76 | | |
| 1.03 | 3.29 | 5.6 | | |
| -1.06 | -2.63 | -0.18 | | |
| -1.14 | -1.88 | 0.66 | | |
| -1.17 | -3.24 | -0.65 | | |
| -2.11 | -1.62 | -0.48 | | |
| -2.32 | 0.13 | 1.42 | | |
| -1.43 | 1.87 | 3.01 | | |
| -1.68 | 2.08 | 3.45 | | |
| -2.54 | -0.77 | 0.37 | | |
| -3.59 | -4.77 | -3.13 | | |
| -2.18 | -5.19 | -4.04 | | |
| -2.19 | -3.87 | -2.71 | | |
| -2.42 | -3.53 | -2.23 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.44 | -4.26 | -2.95 | | |
| -2.57 | -2.81 | -1.43 | | |
| -1.51 | -2.66 | -1.51 | | |
| -1.59 | -0.9 | 0.32 | | |
| -1.59 | 1.26 | 2.47 | | |
| -1.88 | -0.92 | 0.54 | | |
| 7.23 | -2.69 | -1.54 | | |
| 5.51 | -5.9 | -4.36 | | |
| -1.01 | -9.01 | -4.99 | | |
| -1.22 | -7.87 | -3.59 | | |
| -2.54 | -0.97 | 0.18 | | |
| -2.58 | -1.3 | -0.13 | | |
| -2.58 | -2.17 | -1.01 | | |
| -3.01 | -1.28 | 0.1 | | |
| -3.05 | -2.33 | -0.92 | | |
| -2.25 | -2.6 | -1.46 | | |
| -2.37 | -2.21 | -0.99 | | |
| -2.5 | -2.04 | -0.75 | | |
| -3.02 | -4.09 | -2.52 | | |
| -1.96 | -6.05 | -4.9 | | |
| -2.62 | -5.41 | -3.85 | | |
| -1.26 | -2.36 | -1.22 | | |
| -1.45 | -0.54 | 0.8 | | |
| -1.59 | -1.55 | -0.07 | | |
| 1.11 | -0.86 | 0.28 | | |
| 1.02 | -1.73 | -0.46 | | |
| -1.06 | 4.58 | 5.96 | | |
| -1.09 | 2.69 | 4.11 | | |
| -1.23 | 2.67 | 4.26 | | |
| -1.34 | 0.12 | 1.84 | | |
| -1.66 | -3.93 | -2.78 | | |
| -1.97 | -2.57 | -1.18 | | |
| -2.21 | -2.48 | -0.92 | | |
| -6.63 | -2.96 | 0.19 | | |
| -2 | -8.17 | -7.03 | | |
| -2.93 | -8.3 | -6.6 | | |
| -1.66 | -1.42 | -0.28 | | |
| -1.73 | 0.18 | 1.38 | | |
| -2.37 | -5.23 | -4.09 | | |
| -5.39 | -6.34 | -4.01 | | |
| 1.52 | 6.23 | 7.38 | | |
| 1.16 | 1.21 | 2.74 | | |
| 1.25 | -6.37 | -5.22 | | |
| 1.07 | -2.91 | -1.55 | | |
| -2.48 | -1.79 | -0.64 | | |
| -3.36 | -2.59 | -1 | | |
| -2.7 | -2.25 | -1.1 | | |
| -4.46 | -4.33 | -2.45 | | |
| -4.18 | -0.79 | 0.36 | | |
| -4.37 | 0.21 | 1.42 | | |
| -2.2 | -2.85 | -1.7 | | |
| -2.36 | -2.72 | -1.47 | | |
| -2.37 | 0.28 | 1.54 | | |
| -1.6 | -7.48 | -6.33 | | |
| -1.63 | -6.62 | -5.44 | | |
| -1.54 | -3.12 | -1.97 | | |
| -1.59 | -1.2 | 0 | | |
| -2.35 | 0.76 | 2.52 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.6 | 0.6 | 1.75 | | |
| -2.44 | 3.57 | 5.33 | | |
| -2.79 | -1.63 | 0.32 | | |
| -2.66 | -2.85 | -1.69 | | |
| -2.67 | -0.26 | 0.9 | | |
| 1.11 | 0.88 | 2.03 | | |
| -1.14 | -4.83 | -3.33 | | |
| -1.15 | 6.38 | 7.88 | | |
| -1.22 | 0.37 | 1.96 | | |
| -2.09 | -1.43 | -0.27 | | |
| -2.17 | -1.05 | 0.15 | | |
| -2.21 | -3.77 | -2.54 | | |
| -2.47 | -7.74 | -6.59 | | |
| -5.47 | -8.11 | -5.81 | | |
| -7.4 | -7.05 | -4.32 | | |
| 36.64 | 0.99 | 2.15 | | |
| 5.35 | -5.87 | -1.93 | | |
| 1.16 | -2.43 | -1.27 | | |
| -1.03 | 5.01 | 6.43 | | |
| -1.06 | -0.38 | 1.07 | | |
| -2.49 | -6.96 | -5.81 | | |
| -2.61 | -3.95 | -2.72 | | |
| 1.1 | -2.78 | -1.62 | | |
| 1.04 | -2.44 | -1.21 | | |
| 1.02 | -0.89 | 0.36 | | |
| -1 | -3.64 | -2.35 | | |
| -1.01 | -0.66 | 0.65 | | |
| -1.08 | 6.26 | 7.66 | | |
| -1.11 | -2.6 | -1.16 | | |
| -1.37 | -0.83 | 0.92 | | |
| -1.48 | -3.05 | -1.19 | | |
| -1.66 | -2.87 | -0.85 | | |
| -1.58 | -3.53 | -2.37 | | |
| -1.67 | -2.77 | -1.52 | | |
| -1.73 | -3.14 | -1.85 | | |
| -1.91 | -3.52 | -2.08 | | |
| -2.2 | 0.78 | 1.94 | | |
| -2.34 | -1.54 | -0.29 | | |
| -1.82 | -2.82 | -1.66 | | |
| -2.32 | -4.3 | -2.79 | | |
| -2.31 | -4.04 | -2.88 | | |
| -2.57 | -2.32 | -1.01 | | |
| -1.19 | -5.19 | -4.03 | | |
| -1.66 | -3.92 | -2.28 | | |
| -1.74 | -2.42 | -1.25 | | |
| -2.04 | -2.9 | -1.51 | | |
| -2.76 | -3.89 | -2.06 | | |
| -2.41 | -6.44 | -5.28 | | |
| -2.79 | -7.26 | -5.89 | | |
| -3.61 | -3.02 | -1.27 | | |
| -3.8 | -4.1 | -2.28 | | |
| -4.7 | -5.9 | -3.77 | | |
| -2.52 | -1.94 | -0.78 | | |
| -3.63 | -2.96 | -1.27 | | |
| 1.25 | -1.69 | -0.52 | | |
| -1.04 | -3.66 | -2.11 | | |
| -1.11 | 4.01 | 5.65 | | |
| 1.64 | -1.63 | -0.47 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.49 | 0.43 | 1.73 | | |
| -2.71 | -2 | -0.84 | | |
| -3.24 | 1.57 | 2.99 | | |
| -3.36 | 0.54 | 2.01 | | |
| -3.43 | 0.91 | 2.41 | | |
| -6.59 | -1.12 | 1.32 | | |
| -1.89 | -0.7 | 0.47 | | |
| -1.99 | -2.34 | -1.1 | | |
| -2.91 | 0.47 | 2.26 | | |
| -3.31 | -5.09 | -3.12 | | |
| -1.47 | -5.85 | -4.68 | | |
| -1.9 | -5.63 | -4.1 | | |
| -2.26 | -1.84 | -0.67 | | |
| -2.48 | -4.91 | -3.61 | | |
| -1.58 | 2.11 | 3.28 | | |
| -1.65 | -0.6 | 0.63 | | |
| -2.42 | -2.58 | -1.42 | | |
| -2.52 | -1.95 | -0.72 | | |
| 1.62 | 0.41 | 1.58 | | |
| 1.52 | -1.28 | -0.01 | | |
| 1.5 | -1.05 | 0.23 | | |
| 1.45 | 2.78 | 4.1 | | |
| 1.31 | -2.19 | -0.71 | | |
| 1.23 | -1.49 | 0.07 | | |
| 1.15 | -0.45 | 1.21 | | |
| -1.08 | -1.85 | 0.12 | | |
| -1.12 | -2.15 | -0.11 | | |
| -1.12 | -0.6 | 1.43 | | |
| -1.2 | 2.44 | 4.56 | | |
| -1.22 | 3.28 | 5.44 | | |
| -1.26 | 0.62 | 2.81 | | |
| -1.34 | -1.13 | 1.16 | | |
| -1.58 | -1.48 | 1.05 | | |
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |
| -2.34 | -3.17 | -2 | | |
| -3.12 | -3.65 | -2.06 | | |
| -3.2 | -2.9 | -1.28 | | |
| -3.63 | -1.39 | -0.22 | | |
| -4.76 | -1.76 | -0.19 | | |
| -1.26 | 0.1 | 1.26 | | |
| -1.4 | 0.71 | 2.03 | | |
| -1.49 | -1.84 | -0.67 | | |
| -1.62 | -2.03 | -0.73 | | |
| -2.99 | 3.72 | 5.89 | | |
| -2.22 | -1.56 | -0.4 | | |
| -2.33 | -2.57 | -1.33 | | |
| -2.44 | -2.31 | -1.01 | | |
| 1.12 | -1.22 | -0.05 | | |
| 1.07 | 1.52 | 2.74 | | |
| 1.07 | 0.79 | 2.02 | | |
| -2.59 | -2.58 | -1.41 | | |
| -2.66 | -1.59 | -0.38 | | |
| -4.4 | -2.93 | -1 | | |
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |
| -2.29 | -0.65 | 0.52 | | |
| -2.74 | -2.07 | -0.64 | | |
| -1.42 | 2.22 | 3.4 | | |
| -1.55 | -0.42 | 0.88 | | |
| -1.73 | -2.52 | -1.05 | | |
| -1.66 | -3.6 | -2.42 | | |
| -1.7 | -3.07 | -1.87 | | |
| -1.81 | -0.36 | 0.94 | | |
| -1.86 | -3.93 | -2.59 | | |
| -1.91 | -6.14 | -4.97 | | |
| -2.14 | -6.15 | -4.81 | | |
| -1.9 | -4.06 | -2.88 | | |
| -2.01 | -4.39 | -3.13 | | |
| -2.04 | -3.98 | -2.7 | | |
| -1.98 | -4.96 | -3.79 | | |
| -2.33 | -3.29 | -1.88 | | |
| -2.2 | -4.42 | -3.25 | | |
| -2.29 | -3.07 | -1.84 | | |
| -1.46 | -0.74 | 0.43 | | |
| -1.7 | 0.99 | 2.39 | | |
| -1.66 | -4.29 | -3.11 | | |
| -1.8 | -4.88 | -3.59 | | |
| -2.81 | -5.41 | -3.48 | | |
| -2.35 | -3.32 | -2.14 | | |
| -2.61 | -3.01 | -1.69 | | |
| -3.12 | 0.15 | 1.34 | | |
| -4.47 | 0.23 | 1.94 | | |
| -2.76 | -2.61 | -1.43 | | |
| -3.16 | -2.04 | -0.66 | | |
| -1.45 | -0.88 | 0.3 | | |
| -1.5 | 1.94 | 3.16 | | |
| -1.81 | 1.02 | 2.52 | | |
| -1.66 | -1.17 | 0.01 | | |
| -2.59 | -1.2 | 0.63 | | |
| -2.23 | 0.82 | 2 | | |
| -2.48 | 1.71 | 3.05 | | |
| -1.32 | -6.26 | -5.08 | | |
| -1.61 | -3.54 | -2.07 | | |
| 3.01 | -2 | -0.81 | | |
| 2.71 | 0.27 | 1.61 | | |
| 2.67 | -1.7 | -0.34 | | |
| 1.95 | -2.11 | -0.3 | | |
| 1.94 | 0.06 | 1.88 | | |
| 1.71 | -4.56 | -2.56 | | |
| 1.46 | -0.85 | 1.39 | | |
| 1.27 | -3.9 | -1.47 | | |
| 1.04 | -3.69 | -0.96 | | |
| 1.47 | -1.49 | -0.3 | | |
| 1.46 | 2.41 | 3.61 | | |
| 1.38 | 1.05 | 2.32 | | |
| 1.3 | -0.98 | 0.38 | | |
| 1.3 | 0.54 | 1.9 | | |

| | | | | |
|-------|-------|-------|--|--|
| 1.28 | -3.34 | -1.95 | | |
| 1.25 | 0.51 | 1.92 | | |
| 1.17 | -0.97 | 0.54 | | |
| 1.11 | 1.58 | 3.17 | | |
| -1.08 | 1.07 | 2.92 | | |
| -1.15 | -3.45 | -1.51 | | |
| -1.18 | -2.97 | -0.99 | | |
| -1.2 | 2.05 | 4.05 | | |
| -1.35 | -3.13 | -0.96 | | |
| 1.58 | -1.33 | -0.14 | | |
| 1.51 | -3.81 | -2.56 | | |
| -1.01 | 0.28 | 2.15 | | |
| -1.02 | -3.61 | -1.73 | | |
| -2.99 | -2.18 | -1 | | |
| -3.3 | -3.09 | -1.76 | | |
| -1.32 | -0.57 | 0.62 | | |
| -1.36 | 1.25 | 2.48 | | |
| -1.84 | -1.24 | -0.05 | | |
| -2.6 | -1.94 | -0.25 | | |
| -2.68 | -1.23 | 0.5 | | |
| -3.27 | -2.99 | -0.97 | | |
| 9.63 | -4.71 | -3.52 | | |
| 8.88 | 0.52 | 1.82 | | |
| 6.98 | -2.59 | -0.93 | | |
| 2.74 | -3.65 | -0.65 | | |
| 2.46 | -7.29 | -4.13 | | |
| 1.77 | -2.56 | 1.08 | | |
| -1.06 | -5.43 | -0.89 | | |
| -1.58 | -0.96 | 0.23 | | |
| -1.6 | -0.34 | 0.86 | | |
| -1.91 | -3.72 | -2.54 | | |
| -2.24 | -3.72 | -2.31 | | |
| -2.29 | -0.66 | 0.52 | | |
| -2.96 | -2.2 | -0.64 | | |
| -1.68 | -2.92 | -1.72 | | |
| -3.91 | -2.52 | -0.11 | | |
| 1.17 | -3.17 | -1.98 | | |
| 1.11 | -6.13 | -4.86 | | |
| 1.06 | -0.99 | 0.34 | | |
| -1.29 | -4.97 | -3.18 | | |
| -1.58 | -7.24 | -5.16 | | |
| -2.19 | -5.08 | -3.88 | | |
| -2.54 | -2.93 | -1.52 | | |
| -1.94 | -7.35 | -6.15 | | |
| -3.43 | -6.35 | -4.33 | | |
| 10.06 | -3.44 | -2.24 | | |
| 9.45 | -1.77 | -0.48 | | |
| 8.92 | -0.62 | 0.75 | | |
| 6.53 | 0.03 | 1.86 | | |
| 5.71 | -3.07 | -1.06 | | |
| 5.14 | 1.81 | 3.98 | | |
| 1.37 | -1.93 | 2.15 | | |
| 1.24 | -5.27 | -1.05 | | |
| 1.19 | -3.67 | 0.6 | | |
| 1.13 | -3.99 | 0.36 | | |
| -1.04 | -0.68 | 3.9 | | |
| -1.07 | -3.51 | 1.12 | | |
| -1.19 | -2.52 | 2.26 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.64 | -5.91 | -0.66 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| -1.25 | -1.16 | 0.04 | | |
| -1.4 | -0.86 | 0.51 | | |
| -3.92 | -1.69 | -0.49 | | |
| -4.25 | -2.37 | -1.05 | | |
| -5.26 | -2.21 | -0.58 | | |
| -2.11 | -4.48 | -3.28 | | |
| -2.38 | -2.34 | -0.97 | | |
| -2.49 | -3.43 | -1.99 | | |
| -2.97 | -2.42 | -0.72 | | |
| -2.44 | -1.38 | -0.18 | | |
| -2.7 | -1.84 | -0.5 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| -1.25 | -1.16 | 0.04 | | |
| -1.4 | -0.86 | 0.51 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| -1.25 | -1.16 | 0.04 | | |
| -1.4 | -0.86 | 0.51 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| -1.25 | -1.16 | 0.04 | | |
| -1.4 | -0.86 | 0.51 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| -3.78 | -3.07 | -1.87 | | |
| -3.82 | -1.28 | -0.07 | | |
| -5.78 | -1.82 | 0 | | |
| 1.08 | -1.96 | -0.75 | | |
| -1.08 | 2.51 | 3.93 | | |
| -1.28 | -2.6 | -0.93 | | |
| -1.75 | 3.15 | 5.28 | | |
| 1.01 | -4.46 | -3.26 | | |
| -1.18 | -3.72 | -2.25 | | |
| -2.26 | -1.92 | -0.72 | | |
| -2.37 | -3.36 | -2.08 | | |
| -1.82 | -0.15 | 1.06 | | |
| -1.87 | -0.11 | 1.13 | | |
| -1.91 | -5.32 | -4.12 | | |
| -2.22 | -6.02 | -4.6 | | |
| -1.76 | -0.41 | 0.8 | | |
| -2.53 | -2.43 | -0.69 | | |
| -1.19 | -1.25 | -0.04 | | |
| -2.62 | 2.59 | 4.93 | | |
| -2.36 | -6.94 | -5.73 | | |
| -2.78 | -5.84 | -4.4 | | |
| -2.86 | -5.71 | -4.22 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.97 | -3 | -1.79 | | |
| -2.17 | 2.66 | 4.01 | | |
| -2.39 | -4.3 | -2.81 | | |
| 2.58 | -1.82 | -0.61 | | |
| 1.29 | -3.07 | -0.86 | | |
| -1.04 | -2.13 | 0.5 | | |
| -1.01 | 3.85 | 5.06 | | |
| -1.05 | -1.64 | -0.37 | | |
| 3.6 | -1.68 | -0.47 | | |
| 3.12 | 1.43 | 2.85 | | |
| 2.43 | -0.88 | 0.9 | | |
| 2.06 | -3.47 | -1.45 | | |
| 1.87 | -2.29 | -0.13 | | |
| 1.45 | -0.53 | 2 | | |
| 1.25 | -2.54 | 0.2 | | |
| 1.19 | 0.47 | 3.28 | | |
| -1.93 | -1.84 | -0.63 | | |
| -2.02 | 1.24 | 2.52 | | |
| -2.14 | -3.16 | -1.8 | | |
| -2.38 | -1.8 | -0.29 | | |
| -3.37 | -3.99 | -1.97 | | |
| -5.07 | -3.03 | -0.42 | | |
| -10.97 | -3.73 | -0.01 | | |
| -1.85 | -1.9 | -0.69 | | |
| -2.64 | -2.73 | -1 | | |
| -2.82 | 5.01 | 6.22 | | |
| -3.95 | 1.77 | 3.47 | | |
| -4.62 | 4.44 | 6.36 | | |
| -23.72 | -0.07 | 4.21 | | |
| -2.19 | -2.82 | -1.6 | | |
| -3.51 | -4.38 | -2.48 | | |
| -3.39 | -2.28 | -1.06 | | |
| -3.72 | -6.87 | -5.51 | | |
| -8.96 | -5.98 | -3.36 | | |
| 1.61 | 0.79 | 2.01 | | |
| 1.45 | 0 | 1.37 | | |
| 1.42 | 1.17 | 2.58 | | |
| 1.07 | 1.5 | 3.31 | | |
| -1.11 | 5.39 | 7.45 | | |
| -2.35 | -1.1 | 0.12 | | |
| -3.86 | -3.06 | -1.12 | | |
| -1.44 | -2.23 | -1.01 | | |
| -1.54 | -2.35 | -1.04 | | |
| -1.98 | -2.42 | -0.74 | | |
| -1.68 | -2.08 | -0.86 | | |
| -1.71 | -2.12 | -0.87 | | |
| -1.72 | -3.11 | -1.85 | | |
| -2.59 | -3.55 | -1.7 | | |
| -1.31 | -6.59 | -5.37 | | |
| -1.42 | -6.62 | -5.28 | | |
| -1.51 | -4.1 | -2.67 | | |
| 1.12 | -3.83 | -2.61 | | |
| 1.06 | -3.27 | -1.98 | | |
| -1.2 | -0.52 | 1.12 | | |
| -1.56 | -8.88 | -6.86 | | |
| -2.48 | 0.05 | 1.27 | | |
| -3.39 | -2.35 | -0.68 | | |
| -3.67 | -4.12 | -2.33 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.75 | -3.44 | -2.21 | | |
| -1.87 | -1.83 | -0.5 | | |
| 1.4 | -3.29 | -2.07 | | |
| 1.23 | -4.39 | -2.97 | | |
| 1.14 | -3.89 | -2.37 | | |
| -1.95 | -0.51 | 0.71 | | |
| -3.01 | -1.9 | -0.04 | | |
| -2.03 | -2.48 | -1.25 | | |
| -2.1 | -2.68 | -1.4 | | |
| -2.08 | -4.47 | -3.24 | | |
| -2.71 | -5.63 | -4.01 | | |
| -3.29 | -5.97 | -4.07 | | |
| -1.75 | -3.3 | -2.07 | | |
| -2.2 | -2.59 | -1.02 | | |
| -2.12 | -0.99 | 0.25 | | |
| -2.73 | -0.58 | 1.01 | | |
| -1.47 | -2.26 | -1.03 | | |
| -2.5 | -3.58 | -1.59 | | |
| -3.78 | -0.47 | 0.77 | | |
| -5.5 | 0 | 1.77 | | |
| -9.98 | 1.98 | 4.61 | | |
| -12.82 | 1.57 | 4.56 | | |
| -2.05 | -1.13 | 0.1 | | |
| -2.29 | -0.21 | 1.19 | | |
| -1.89 | -1.28 | -0.04 | | |
| -1.98 | -1.18 | 0.11 | | |
| -3.04 | -1.6 | 0.32 | | |
| -1.85 | 0.3 | 1.53 | | |
| -1.89 | 1.67 | 2.93 | | |
| -1.9 | -0.99 | 0.28 | | |
| -2.11 | -0.03 | 1.38 | | |
| -2.25 | -0.58 | 0.93 | | |
| -2.52 | -2.05 | -0.81 | | |
| -2.81 | -1.91 | -0.51 | | |
| -3.09 | -2.43 | -0.91 | | |
| -6.38 | -4.28 | -1.7 | | |
| -2.19 | -4.75 | -3.51 | | |
| -3.26 | -3.99 | -2.18 | | |
| -4.95 | -6.19 | -3.78 | | |
| -2.93 | -1.52 | -0.28 | | |
| -3.07 | -3.37 | -2.07 | | |
| -1.53 | -1.71 | -0.47 | | |
| -1.65 | -2.68 | -1.34 | | |
| -1.73 | 0.47 | 1.71 | | |
| -2.44 | 3.42 | 5.16 | | |
| -1.71 | -0.17 | 1.08 | | |
| -1.91 | 3.11 | 4.51 | | |
| 1.02 | -2.32 | -1.07 | | |
| -1.35 | -3.16 | -1.45 | | |
| -1.7 | 0.16 | 1.4 | | |
| -1.98 | 0.28 | 1.74 | | |
| 2.38 | -3.47 | -2.23 | | |
| 2.12 | -1.75 | -0.34 | | |
| 1.71 | -0.45 | 1.27 | | |
| 1.6 | -5.57 | -3.75 | | |
| -2.77 | -5.37 | -4.13 | | |
| -3.01 | -3.38 | -2.01 | | |
| -2.32 | -1.71 | -0.46 | | |

| | | | | |
|--------|-------|-------|--|--|
| -2.39 | -2.88 | -1.6 | | |
| -2.06 | -0.2 | 1.05 | | |
| -13.12 | -2.09 | 1.83 | | |
| -1.78 | 0.01 | 1.26 | | |
| -1.97 | -2.33 | -0.93 | | |
| 2.1 | -6.41 | -5.17 | | |
| 2.1 | -4.25 | -3 | | |
| 2.04 | -7.18 | -5.89 | | |
| 1.88 | -8.32 | -6.91 | | |
| 1.63 | -7.51 | -5.9 | | |
| -1.03 | -8.77 | -6.42 | | |
| -1.13 | 3.68 | 4.94 | | |
| -1.39 | -1.61 | -0.05 | | |
| 2.1 | 0.55 | 1.8 | | |
| 1.99 | 2.42 | 3.74 | | |
| 1.81 | -3.13 | -1.66 | | |
| 1.74 | -2.82 | -1.3 | | |
| 1.73 | 0.08 | 1.61 | | |
| 1.67 | -4.41 | -2.84 | | |
| 1.58 | -3.93 | -2.27 | | |
| 1.37 | -3.2 | -1.34 | | |
| 1.34 | -0.37 | 1.53 | | |
| 1.19 | 0.01 | 2.07 | | |
| 1.07 | -0.78 | 1.44 | | |
| -1.38 | -5.87 | -4.62 | | |
| -1.43 | -7.45 | -6.15 | | |
| -1.44 | -8.34 | -7.03 | | |
| 3.11 | -1.5 | -0.25 | | |
| 2.61 | -7.46 | -5.96 | | |
| 2.4 | 1.41 | 3.03 | | |
| 2.3 | 2.08 | 3.76 | | |
| 1.86 | 2.16 | 4.15 | | |
| -1.25 | -1.21 | 0.05 | | |
| -1.4 | -0.91 | 0.51 | | |
| -2.06 | 1.22 | 2.48 | | |
| -2.38 | -3.59 | -2.12 | | |
| -2.45 | -2.53 | -1.03 | | |
| -4.38 | -1.01 | 0.25 | | |
| -6.5 | 1.27 | 3.1 | | |
| 1.59 | 0.08 | 1.34 | | |
| -1 | -3.06 | -1.13 | | |
| -1.1 | 2.96 | 5.02 | | |
| -2.35 | -3.08 | -1.82 | | |
| -2.48 | -2.55 | -1.21 | | |
| -4.09 | -2.7 | -0.64 | | |
| -1.83 | -5.03 | -3.77 | | |
| -2.93 | -7.11 | -5.17 | | |
| -2.12 | -2.46 | -1.19 | | |
| -2.71 | -4.23 | -2.61 | | |
| -2.04 | -2.89 | -1.62 | | |
| -2.69 | -1.96 | -0.29 | | |
| -2.76 | -2.33 | -0.63 | | |
| -3.85 | -1.57 | 0.61 | | |
| -5.96 | -0.94 | 1.87 | | |
| -1.73 | -3.87 | -2.6 | | |
| -2.1 | -3.97 | -2.41 | | |
| -1.26 | -0.34 | 0.93 | | |
| -1.45 | -0.74 | 0.74 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.75 | -0.67 | 1.08 | | |
| -3.76 | 2.02 | 3.29 | | |
| -8.5 | -0.34 | 2.1 | | |
| -2.16 | -3.08 | -1.8 | | |
| -2.69 | -2.49 | -0.9 | | |
| -2.12 | -0.83 | 0.45 | | |
| -3.46 | -1.09 | 0.89 | | |
| -2.07 | -4.4 | -3.12 | | |
| -2.18 | -6 | -4.64 | | |
| 1.66 | -1.97 | -0.69 | | |
| 1.35 | 0.08 | 1.65 | | |
| -2.22 | -0.79 | 0.49 | | |
| -2.41 | -1.98 | -0.58 | | |
| -2.43 | -2.51 | -1.1 | | |
| 1.07 | -5.66 | -4.37 | | |
| -1.01 | -5.66 | -4.26 | | |
| -1.03 | -5.15 | -3.73 | | |
| -1.03 | -3.12 | -1.7 | | |
| -1.05 | -5.15 | -3.69 | | |
| -1.08 | -3.35 | -1.87 | | |
| -1.72 | -6.31 | -4.15 | | |
| -3.12 | 0.91 | 2.19 | | |
| -3.6 | 1.11 | 2.6 | | |
| -4.84 | -0.23 | 1.68 | | |
| 1.1 | -0.48 | 0.81 | | |
| -2.39 | -3.88 | -1.2 | | |
| 1.5 | -4.11 | -2.81 | | |
| 1.03 | 2.53 | 4.37 | | |
| 1 | 1.07 | 2.95 | | |
| 4.56 | -1.04 | 0.25 | | |
| 2.49 | -2.16 | 0.01 | | |
| 1.25 | -1.61 | 1.55 | | |
| 1.1 | -2.94 | 0.4 | | |
| -1.19 | 0.06 | 3.79 | | |
| -1.28 | -4 | -2.7 | | |
| -1.28 | 0.05 | 1.35 | | |
| -1.5 | -1.93 | -0.4 | | |
| -1.56 | -0.9 | 0.68 | | |
| -1.71 | 0.46 | 2.17 | | |
| -1.73 | 0.4 | 2.13 | | |
| -1.88 | -0.03 | 1.81 | | |
| -2.51 | -2.68 | -1.39 | | |
| -2.93 | -2.07 | -0.55 | | |
| -2.73 | -4.55 | -3.25 | | |
| -3.68 | -3.74 | -2.01 | | |
| -2.8 | -3.22 | -1.92 | | |
| -3.93 | -4.08 | -2.3 | | |
| -2.42 | -2.78 | -1.48 | | |
| -2.71 | -3.05 | -1.58 | | |
| -4.02 | -1.54 | -0.23 | | |
| -5.68 | -2.77 | -0.96 | | |
| -2.42 | -2.12 | -0.81 | | |
| -3.07 | -3.49 | -1.84 | | |
| -3.09 | -1.56 | 0.1 | | |
| -2.86 | -4.02 | -2.71 | | |
| -4.2 | -4.82 | -2.96 | | |
| -3.39 | -2.09 | -0.77 | | |
| -3.41 | -2.94 | -1.62 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.88 | -4.23 | -2.72 | | |
| 2.37 | -0.67 | 0.65 | | |
| -1.22 | -2.71 | 0.14 | | |
| -1.7 | -2.08 | -0.77 | | |
| -1.8 | -3.01 | -1.62 | | |
| -1.89 | -1.38 | 0.08 | | |
| -2.82 | 4.34 | 5.65 | | |
| -3.36 | 1.27 | 2.84 | | |
| -4.43 | 4.39 | 6.36 | | |
| -1.67 | -3.3 | -1.99 | | |
| -1.77 | -2.37 | -0.97 | | |
| -2.63 | -2.07 | -0.1 | | |
| -3.72 | -1.96 | -0.65 | | |
| -3.73 | -3.64 | -2.32 | | |
| -1.49 | -4.19 | -2.86 | | |
| -1.67 | -5.16 | -3.67 | | |
| -1.57 | -1.61 | -0.29 | | |
| -1.64 | 0.64 | 2.02 | | |
| -3.17 | -0.68 | 0.65 | | |
| -3.34 | -2.74 | -1.34 | | |
| -3.57 | -0.88 | 0.63 | | |
| -2.88 | -2.89 | -1.55 | | |
| -3.83 | -1 | 0.75 | | |
| -6.79 | -4.31 | -1.73 | | |
| -2.01 | -5.11 | -3.77 | | |
| -2.94 | -4.69 | -2.8 | | |
| -2.1 | 1.1 | 2.45 | | |
| -2.14 | -4.23 | -2.85 | | |
| -4.38 | -3.3 | -0.89 | | |
| -2.89 | -4.28 | -2.93 | | |
| -3.24 | -4.92 | -3.4 | | |
| -3.39 | -5.21 | -3.62 | | |
| -1.51 | -2.04 | -0.69 | | |
| -1.9 | -3.27 | -1.59 | | |
| 1.33 | -1.37 | -0.01 | | |
| 1.04 | 0.94 | 2.65 | | |
| -3.1 | -3.86 | -2.5 | | |
| -4.64 | -5.69 | -3.75 | | |
| 1.44 | -5.85 | -4.48 | | |
| 1.2 | -1.52 | 0.11 | | |
| -1.68 | -1.33 | 0.05 | | |
| -2.7 | -1.12 | 0.95 | | |
| -1.04 | -2.2 | -0.82 | | |
| -1.26 | -2.81 | -1.16 | | |
| -1.29 | -5.59 | -3.91 | | |
| -1.45 | -4.36 | -2.51 | | |
| -1.2 | 0.14 | 1.52 | | |
| -1.28 | 0.17 | 1.64 | | |
| -1.56 | -4.55 | -3.16 | | |
| -1.6 | -4.75 | -3.32 | | |
| -1.69 | -2.55 | -1.05 | | |
| -1.69 | -4.19 | -2.69 | | |
| -1.9 | -6.53 | -4.85 | | |
| -2.05 | -3.89 | -2.1 | | |
| -3.39 | -4.06 | -2.67 | | |
| -5.13 | -4.42 | -2.43 | | |
| -3.09 | -1.69 | -0.29 | | |
| -3.24 | -0.34 | 1.12 | | |

| | | | | |
|-------|-------|-------|--|--|
| -3.67 | -0.38 | 1.26 | | |
| -5.47 | -1.56 | 0.65 | | |
| 1.32 | -1.28 | 0.12 | | |
| 1.3 | -2.25 | -0.83 | | |
| -1.05 | 4.06 | 5.93 | | |
| -1.15 | -2.31 | -0.31 | | |
| -2.41 | -6.15 | -4.75 | | |
| -4.68 | -6.95 | -4.58 | | |
| -1.25 | -5.09 | -3.68 | | |
| -1.26 | -7.12 | -5.69 | | |
| -1.36 | -6.44 | -4.9 | | |
| -2.21 | -6.36 | -4.96 | | |
| -2.59 | -6.13 | -4.5 | | |
| 4.06 | -1.15 | 0.27 | | |
| 4.01 | -3.17 | -1.74 | | |
| 3.25 | -4.1 | -2.37 | | |
| 3.16 | -4.37 | -2.6 | | |
| 3.09 | -1.96 | -0.15 | | |
| 3 | -3.98 | -2.13 | | |
| 2.78 | -3.28 | -1.32 | | |
| 2.62 | -2.49 | -0.44 | | |
| 1.99 | -3.34 | -0.9 | | |
| 1.68 | -2.82 | -0.13 | | |
| 1.46 | -0.2 | 2.68 | | |
| 1.42 | -4.59 | -1.66 | | |
| 1.33 | -4.33 | -1.3 | | |
| 1.29 | -5.21 | -2.14 | | |
| 1.27 | -3.38 | -0.3 | | |
| 1.23 | 3.19 | 6.33 | | |
| 1.17 | -3.46 | -0.26 | | |
| 1.17 | -4.11 | -0.9 | | |
| 1.11 | 4.38 | 7.66 | | |
| 1.09 | 3.07 | 6.38 | | |
| 1.08 | -5.01 | -1.69 | | |
| 1.01 | -0.11 | 3.31 | | |
| -1 | 2.91 | 6.35 | | |
| -1.02 | -5.28 | -1.82 | | |
| -1.3 | -4.19 | -0.37 | | |
| -3.21 | -2.38 | -0.97 | | |
| -3.26 | -2.18 | -0.74 | | |
| -2.97 | -6.46 | -5.05 | | |
| -3.39 | -5.15 | -3.55 | | |
| -2.25 | 1.19 | 2.6 | | |
| -2.58 | 1.53 | 3.14 | | |
| -2.65 | 1.95 | 3.6 | | |
| -2.36 | 1.7 | 3.11 | | |
| -2.43 | -3.49 | -2.04 | | |
| -2.72 | -0.21 | 1.4 | | |
| -2.87 | -1.06 | 0.36 | | |
| -5.73 | -4.38 | -1.96 | | |
| -1.24 | -3.48 | -2.07 | | |
| -1.66 | -0.58 | 1.26 | | |
| -2.36 | -3.59 | -2.17 | | |
| -4.22 | -2.69 | -0.44 | | |
| -2.63 | -2.41 | -0.99 | | |
| -3.21 | -3.93 | -2.22 | | |
| -5.95 | -3.26 | -0.66 | | |
| -1.97 | -0.77 | 0.65 | | |

| | | | | |
|-------|-------|-------|--|--|
| -2.29 | -0.09 | 1.55 | | |
| -4.47 | -2.91 | -0.31 | | |
| -2.67 | -2.42 | -1 | | |
| -3.14 | -2.96 | -1.3 | | |
| -3.55 | -4.51 | -2.68 | | |
| -4.21 | -4.63 | -2.55 | | |
| 2.08 | -3.13 | -1.69 | | |
| 2.06 | 0.07 | 1.52 | | |
| 1.74 | -1.08 | 0.61 | | |
| 1.05 | -2.01 | 0.4 | | |
| 1 | -2.02 | 0.47 | | |
| -1.07 | -1.4 | 1.19 | | |
| -1.22 | -0.59 | 2.19 | | |
| -1.25 | -4.42 | -1.61 | | |
| -3.25 | -5.83 | -4.4 | | |
| -3.48 | -4.87 | -3.34 | | |
| 1.06 | 0.62 | 2.07 | | |
| 1.06 | -1.82 | -0.38 | | |
| -1.14 | -4.99 | -3.27 | | |
| -1.15 | -4.03 | -2.3 | | |
| -1.21 | 0.67 | 2.48 | | |
| -1.32 | -0.27 | 1.66 | | |
| 1.11 | 0.55 | 1.99 | | |
| -1.13 | 2.74 | 4.5 | | |
| -1.32 | -2.17 | -0.19 | | |
| 3.55 | -3.41 | -1.97 | | |
| 2.51 | -2.22 | -0.27 | | |
| 2.31 | -2.42 | -0.36 | | |
| 1.86 | 0.73 | 3.11 | | |
| 1.56 | -2.43 | 0.2 | | |
| 1.31 | -4.77 | -1.89 | | |
| 1.2 | -2.09 | 0.92 | | |
| 1.19 | -3.4 | -0.38 | | |
| 1.02 | -3.75 | -0.51 | | |
| -1.19 | -6.08 | -2.55 | | |
| -1.31 | -5.04 | -1.38 | | |
| -1.05 | 4.13 | 5.59 | | |
| -1.25 | -3.22 | -1.51 | | |
| -2.44 | -1.37 | 0.08 | | |
| -3.44 | -2.29 | -0.34 | | |
| -1.5 | 0.29 | 1.76 | | |
| -2.11 | -2.42 | -0.46 | | |
| -1.45 | 1.94 | 3.41 | | |
| -1.64 | -0.97 | 0.68 | | |
| -2.5 | -3.84 | -2.36 | | |
| -2.62 | -2.11 | -0.55 | | |
| -1.22 | 4.69 | 6.18 | | |
| -2.01 | 1.82 | 4.04 | | |
| -1.25 | -3.98 | -2.49 | | |
| -1.5 | -3.72 | -1.97 | | |
| -3.62 | -5.95 | -4.46 | | |
| -4.55 | -7.54 | -5.72 | | |
| 3.9 | 0.4 | 1.9 | | |
| 2.48 | -4.75 | -2.6 | | |
| 2.27 | -0.72 | 1.55 | | |
| 1.35 | -2.92 | 0.1 | | |
| 1.3 | -0.11 | 2.97 | | |
| 1.11 | -4.25 | -0.94 | | |

| | | | | |
|--------|-------|-------|--|--|
| -1.6 | 1.55 | 3.07 | | |
| -2.35 | 4.35 | 6.42 | | |
| -1.6 | 1.55 | 3.07 | | |
| -2.35 | 4.35 | 6.42 | | |
| -4.17 | -2.85 | -1.34 | | |
| -4.28 | -2.27 | -0.72 | | |
| -2.87 | -1.54 | 0 | | |
| -3.89 | -3.3 | -1.33 | | |
| -5.75 | -5.59 | -3.06 | | |
| -10.04 | -7.52 | -4.18 | | |
| -3.17 | -1.59 | -0.04 | | |
| -3.31 | -1.63 | -0.02 | | |
| -2.46 | -6.46 | -4.91 | | |
| -2.71 | -3.11 | -1.43 | | |
| -2.82 | 4.42 | 5.97 | | |
| -3.36 | 1.36 | 3.16 | | |
| -4.43 | 4.48 | 6.67 | | |
| -3.21 | -3.97 | -2.42 | | |
| -4.88 | -6.75 | -4.59 | | |
| 1.71 | -1.83 | -0.28 | | |
| 1.25 | -5.92 | -3.91 | | |
| 1.08 | 0.68 | 2.91 | | |
| 1 | -4.24 | -1.92 | | |
| -1.11 | 1.81 | 4.29 | | |
| -1.21 | -2.26 | 0.34 | | |
| -1.22 | -0.87 | 1.75 | | |
| -1.23 | -5.78 | -3.15 | | |
| -4.84 | -1.22 | 0.33 | | |
| -9.5 | -1.85 | 0.68 | | |
| -39.93 | -4.25 | 0.35 | | |
| -2.75 | -1.73 | -0.17 | | |
| -3.37 | -2.29 | -0.44 | | |
| -2.35 | 0.13 | 1.69 | | |
| -4.02 | -0.58 | 1.75 | | |
| -7.27 | -0.75 | 2.44 | | |
| -1.63 | -4.87 | -3.3 | | |
| -1.79 | -5.7 | -3.99 | | |
| -3.52 | -4.92 | -3.33 | | |
| -8.7 | -2.94 | -0.04 | | |
| -3 | -4.49 | -2.9 | | |
| -3.73 | -1.98 | -0.07 | | |
| -4.06 | -2.95 | -0.91 | | |
| -4.32 | -4 | -1.88 | | |
| -4.92 | -3.02 | -0.71 | | |
| 1.62 | -3 | -1.38 | | |
| 1.24 | -3.5 | -1.48 | | |
| 1.05 | -1.47 | 0.77 | | |
| -1.24 | -5.02 | -2.38 | | |
| -1.31 | -4.23 | -1.52 | | |
| 1.88 | -3.31 | -1.69 | | |
| 1.57 | 0.31 | 2.19 | | |
| -2.44 | 3.64 | 5.28 | | |
| -2.65 | 1.44 | 3.2 | | |
| -2.79 | -1.56 | 0.27 | | |
| 3.43 | -1.76 | -0.12 | | |
| 1.53 | -1.93 | 0.88 | | |
| 1.49 | -4.94 | -2.1 | | |
| 1.28 | -3.64 | -0.57 | | |

| | | | | |
|--------|-------|-------|--|--|
| 1.2 | 0.14 | 3.3 | | |
| 1.42 | -0.16 | 1.49 | | |
| 1.12 | 2.27 | 4.27 | | |
| -1.03 | -5.24 | -3.03 | | |
| 2.08 | -2.38 | -0.7 | | |
| 1.98 | -4.56 | -2.82 | | |
| 1.93 | -0.1 | 1.68 | | |
| 1.83 | -2.9 | -1.05 | | |
| 1.63 | -1.1 | 0.92 | | |
| 1.62 | 2.32 | 4.36 | | |
| 1.29 | -4.26 | -1.9 | | |
| 1.09 | -3.61 | -1.01 | | |
| 1 | -0.75 | 1.97 | | |
| -1.02 | -0.07 | 2.68 | | |
| -1.1 | -1.24 | 1.63 | | |
| -1.11 | -4.98 | -2.1 | | |
| -1.14 | -0.36 | 2.56 | | |
| -1.17 | -5.12 | -2.16 | | |
| -1.27 | -5.04 | -1.97 | | |
| -1.28 | -1.18 | 1.91 | | |
| -2.01 | 0.84 | 2.51 | | |
| -2.69 | 1.86 | 3.96 | | |
| -3.17 | -3.6 | -1.9 | | |
| -3.28 | -2.35 | -0.61 | | |
| -3.79 | -3.94 | -1.99 | | |
| -5.31 | -1.36 | 0.38 | | |
| -5.72 | -1.83 | 0.02 | | |
| -7.17 | -1.93 | 0.24 | | |
| -17.22 | -3.67 | -0.24 | | |
| -4.04 | 0.48 | 2.25 | | |
| -5.5 | -3.17 | -0.95 | | |
| -2.44 | 3.58 | 5.36 | | |
| -2.65 | 1.38 | 3.27 | | |
| -2.79 | -1.62 | 0.35 | | |
| -2.96 | -4.54 | -2.73 | | |
| -3.65 | -3.11 | -0.99 | | |
| -2.96 | -4.54 | -2.73 | | |
| -3.65 | -3.11 | -0.99 | | |
| -2.96 | -4.54 | -2.73 | | |
| -3.65 | -3.11 | -0.99 | | |
| -2.96 | -4.55 | -2.72 | | |
| -3.65 | -3.11 | -0.98 | | |
| -2.96 | -4.54 | -2.71 | | |
| -3.65 | -3.1 | -0.97 | | |
| -2.96 | -4.57 | -2.74 | | |
| -3.65 | -3.13 | -1 | | |
| -2.96 | -4.54 | -2.72 | | |
| -3.65 | -3.11 | -0.98 | | |
| -2.96 | -4.49 | -2.64 | | |
| -3.65 | -3.06 | -0.9 | | |
| 1.65 | -1.69 | 0.17 | | |
| 1.39 | -1.33 | 0.78 | | |
| 1.26 | -2.13 | 0.11 | | |
| 1.2 | -3.23 | -0.92 | | |
| -1.08 | 2.64 | 5.33 | | |
| -1.21 | -0.17 | 2.67 | | |
| -1.22 | 1.48 | 4.34 | | |
| -1.38 | 0.02 | 3.06 | | |

| | | | | |
|-------|-------|-------|--|--|
| -1.48 | -1.45 | 1.69 | | |
| 2.65 | -1.97 | -0.11 | | |
| 2.09 | -5.11 | -2.91 | | |
| 1.72 | -3.56 | -1.08 | | |
| 1.62 | -5.47 | -2.9 | | |
| 1.22 | -6.62 | -3.64 | | |
| 1.18 | -4.53 | -1.51 | | |
| 1.16 | -4.51 | -1.45 | | |
| 1.09 | -4.06 | -0.91 | | |
| 1.06 | -5.87 | -2.69 | | |
| 1.04 | -3.79 | -0.58 | | |
| 1.01 | -3.98 | -0.73 | | |
| -1.07 | -4.79 | -1.42 | | |
| -1.1 | -4 | -0.59 | | |
| -1.12 | -2.16 | 1.28 | | |
| -1.31 | -5.81 | -2.16 | | |
| 1.57 | -5.37 | -3.47 | | |
| 1.5 | -5.02 | -3.05 | | |
| 1.16 | -7.15 | -4.8 | | |
| 1.11 | -6.84 | -4.42 | | |
| 1.09 | 1.33 | 3.76 | | |
| 1.08 | -7 | -4.54 | | |
| -1.01 | -7 | -4.43 | | |
| -1.14 | -5.32 | -2.57 | | |
| -1.14 | -8.14 | -5.38 | | |
| -1.31 | -8.63 | -5.68 | | |
| 1.53 | -5.48 | -3.56 | | |
| 1.43 | -4.85 | -2.84 | | |
| -1.08 | 1.65 | 4.29 | | |
| -1.16 | -0.42 | 2.33 | | |
| -1.22 | -1.9 | 0.91 | | |
| -4.26 | -1.29 | 0.79 | | |
| -6.21 | -2.6 | 0.02 | | |
| 1.08 | -1.24 | 0.92 | | |
| 1.01 | -4.3 | -2.04 | | |
| 2.01 | -2.31 | -0.14 | | |
| 1.98 | -0.87 | 1.31 | | |

| Gene symble | Gene ID | Primers (5' to 3') |
|-------------|--------------|--|
| PDE4B | NM_002600 | GCAGGAGTGTGATGACGGTG GATCCAGTGGACTCCGACCT |
| KIAA1244 | NM_020340 | CTGGAGATGGGAAGCCACAAC GCTGAGACTGCGATGCTTT |
| GSTM1 | NM_000561 | CCAGAGCAACGCCATCTTGT CCCCAGAAACTCTGAGTAGAGC |
| CSGALNACT1 | NM_001130518 | TTCAAGGAAAGACGCCAAGGT CTGGGCTAGACCACAGGAAG |
| SYTL2 | NM_032943 | GTGTTGAGCCTGAGCCATCT CATCTTCAGCACTACGCACT |
| KDM5D | NM_004653 | TTAAGGCCCGACATGGAACC CCGCTCCACATTGGGAATCT |
| ANK2 | NM_001127493 | AGTTCTTGTTAAGGAAGGAGCCA TGTACGTCAGCATTGTGGTCA |
| MASP1 | NM_001879 | AGCCATGGTCATCGTCAGCG ATACTCCGTAGCGGTCCTTCT |
| ADAMTSL3 | NM_207517 | TGTCCTGGACGTTGCATGGG GCAGCACCTTTGTTTGTAGCG |
| GPR126 | NM_198569 | GTTCCCTACCTGATCCCGCTC CCTCAGGGTGACGAAGGATG |

GO Term

GO:0006355 regulation of transcription, DNA-dependent
GO:0006350 transcription
GO:0007165 signal transduction
GO:0044419 interspecies interaction between organisms
GO:0007155 cell adhesion
GO:0006468 protein amino acid phosphorylation
GO:0055114 oxidation reduction
GO:0007275 development
GO:0002474 antigen processing and presentation of peptide antigen via MHC class I
GO:0006955 immune response
GO:0019882 antigen processing and presentation
GO:0006811 ion transport
GO:0006974 response to DNA damage stimulus
GO:0007049 cell cycle
GO:0019941 modification-dependent protein catabolism
GO:0016568 chromatin modification
GO:0030154 cell differentiation
GO:0007399 nervous system development
GO:0006508 proteolysis
GO:0051301 cell division
GO:0045786 negative regulation of progression through cell cycle
GO:0005975 carbohydrate metabolism
GO:0008285 negative regulation of cell proliferation
GO:0006281 DNA repair
GO:0006915 apoptosis
GO:0000122 negative regulation of transcription from RNA polymerase II promoter
GO:0015031 protein transport
GO:0006470 protein amino acid dephosphorylation
GO:0045944 positive regulation of transcription from RNA polymerase II promoter
GO:0007605 sensory perception of sound
GO:0007067 mitosis
GO:0007050 cell cycle arrest
GO:0008284 positive regulation of cell proliferation
GO:0006814 sodium ion transport
GO:0006954 inflammatory response
GO:0006260 DNA replication
GO:0007160 cell-matrix adhesion
GO:0006916 anti-apoptosis
GO:0006511 ubiquitin-dependent protein catabolism
GO:0006917 induction of apoptosis
GO:0007283 spermatogenesis
GO:0006629 lipid metabolism
GO:0001501 skeletal development
GO:0006810 transport
GO:0008283 cell proliferation
GO:0006897 endocytosis
GO:0043123 positive regulation of I-kappaB kinase/NF-kappaB cascade
GO:0008380 RNA splicing
GO:0035023 regulation of Rho protein signal transduction
GO:0007242 intracellular signaling cascade
GO:0030036 actin cytoskeleton organization and biogenesis

G0:0007267 cell-cell signaling
G0:0001666 response to hypoxia
G0:0007517 muscle development
G0:0045087 innate immune response
G0:0006357 regulation of transcription from RNA polymerase II promoter
G0:0007601 visual perception
G0:0016055 Wnt receptor signaling pathway
G0:0046777 protein amino acid autophosphorylation
G0:0006461 protein complex assembly
G0:0006886 intracellular protein transport
G0:0007018 microtubule-based movement
G0:0030308 negative regulation of cell growth
G0:0007268 synaptic transmission
G0:0007229 integrin-mediated signaling pathway
G0:0006816 calcium ion transport
G0:0007507 heart development
G0:0007264 small GTPase mediated signal transduction
G0:0051260 protein homooligomerization
G0:0030324 lung development
G0:0006096 glycolysis
G0:0016567 protein ubiquitination
G0:0007420 brain development
G0:0051092 activation of NF-kappaB transcription factor
G0:0008360 regulation of cell shape
G0:0006979 response to oxidative stress
G0:0042493 response to drug
G0:0007595 lactation
G0:0006397 mRNA processing
G0:0006813 potassium ion transport
G0:0006935 chemotaxis
G0:0006919 caspase activation
G0:0016481 negative regulation of transcription
G0:0006457 protein folding
G0:0001503 ossification
G0:0007218 neuropeptide signaling pathway
G0:0030199 collagen fibril organization
G0:0048661 positive regulation of smooth muscle cell proliferation
G0:0006936 muscle contraction
G0:0007565 pregnancy
G0:0009887 organ morphogenesis
G0:0043066 negative regulation of apoptosis
G0:0007411 axon guidance
G0:0030521 androgen receptor signaling pathway
G0:0045454 cell redox homeostasis
G0:0007156 homophilic cell adhesion
G0:0006412 protein biosynthesis
G0:0016575 histone deacetylation
G0:0001701 embryonic development (sensu Mammalia)
G0:0042632 cholesterol homeostasis
G0:0045893 positive regulation of transcription, DNA-dependent
G0:0006631 fatty acid metabolism
G0:0008203 cholesterol metabolism

G0:0007417 central nervous system development
G0:0008277 regulation of G-protein coupled receptor protein signaling pathway
G0:0006869 lipid transport
G0:0001525 angiogenesis
G0:0022900 electron transport chain
G0:0007169 transmembrane receptor protein tyrosine kinase signaling pathway
G0:0007584 response to nutrient
G0:0001570 vasculogenesis
G0:0000187 activation of MAPK activity
G0:0048538 thymus development
G0:0030326 embryonic limb morphogenesis
G0:0008286 insulin receptor signaling pathway
G0:0065002 intracellular protein transmembrane transport
G0:0007243 protein kinase cascade
G0:0009791 post-embryonic development
G0:0008202 steroid metabolism
G0:0008217 blood pressure regulation
G0:0007257 activation of JNK activity
G0:0030336 negative regulation of cell migration
G0:0030183 B cell differentiation
G0:0007588 excretion
G0:0051016 barbed-end actin filament capping
G0:0007010 cytoskeleton organization and biogenesis
G0:0006464 protein modification
G0:0018106 peptidyl-histidine phosphorylation
G0:0050731 positive regulation of peptidyl-tyrosine phosphorylation
G0:0007186 G-protein coupled receptor protein signaling pathway
G0:0032313 regulation of Rab GTPase activity
G0:0006986 response to unfolded protein
G0:0009615 response to virus
G0:0006754 ATP biosynthesis
G0:0050679 positive regulation of epithelial cell proliferation
G0:0006297 nucleotide-excision repair, DNA gap filling
G0:0043433 negative regulation of transcription factor activity
G0:0006006 glucose metabolism
G0:0009953 dorsal/ventral pattern formation
G0:0006958 complement activation, classical pathway
G0:0048146 positive regulation of fibroblast proliferation
G0:0009749 response to glucose stimulus
G0:0042384 cilium biogenesis
G0:0000082 G1/S transition of mitotic cell cycle
G0:0019433 triacylglycerol catabolism
G0:0009952 anterior/posterior pattern formation
G0:0018149 peptide cross-linking
G0:0006611 protein export from nucleus
G0:0006633 fatty acid biosynthesis
G0:0051056 regulation of small GTPase mediated signal transduction
G0:0006904 vesicle docking during exocytosis
G0:0051592 response to calcium ion
G0:0001558 regulation of cell growth
G0:0006268 DNA unwinding during replication
G0:0006367 transcription initiation from RNA polymerase II promoter

GO:0051028 mRNA transport
GO:0010552 positive regulation of specific transcription from RNA polymerase II promoter
GO:0006099 tricarboxylic acid cycle
GO:0008033 tRNA processing
GO:0016192 vesicle-mediated transport
GO:0006270 DNA replication initiation
GO:0007173 epidermal growth factor receptor signaling pathway
GO:0030335 positive regulation of cell migration
GO:0006821 chloride transport
GO:0006366 transcription from RNA polymerase II promoter
GO:0008643 carbohydrate transport
GO:0006879 iron ion homeostasis
GO:0007205 protein kinase C activation
GO:0007569 cell aging
GO:0001569 patterning of blood vessels
GO:0007026 negative regulation of microtubule depolymerization
GO:0043124 negative regulation of I-kappaB kinase/NF-kappaB cascade
GO:0007596 blood coagulation
GO:0048704 embryonic skeletal morphogenesis
GO:0006887 exocytosis
GO:0001937 negative regulation of endothelial cell proliferation
GO:0048536 spleen development
GO:0002504 antigen processing and presentation of peptide or polysaccharide antigen
GO:0006826 iron ion transport
GO:0006298 mismatch repair
GO:0050885 regulation of balance
GO:0000398 nuclear mRNA splicing, via spliceosome
GO:0007368 determination of left/right symmetry
GO:0008016 regulation of heart contraction
GO:0043065 positive regulation of apoptosis
GO:0001843 neural tube closure
GO:0000059 protein import into nucleus, docking
GO:0048008 platelet-derived growth factor receptor signaling pathway
GO:0006378 mRNA polyadenylation
GO:0043524 negative regulation of neuron apoptosis
GO:0006836 neurotransmitter transport
GO:0007076 mitotic chromosome condensation
GO:0006695 cholesterol biosynthesis
GO:0016042 lipid catabolism
GO:0051437 positive regulation of ubiquitin ligase activity during mitotic cell cycle
GO:0006953 acute-phase response
GO:0001516 prostaglandin biosynthesis
GO:0050718 positive regulation of interleukin-1 beta secretion
GO:0045669 positive regulation of osteoblast differentiation
GO:0032869 cellular response to insulin stimulus
GO:0040018 positive regulation of body size
GO:0006417 regulation of protein biosynthesis
GO:0005977 glycogen metabolism
GO:0007040 lysosome organization and biogenesis
GO:0001514 selenocysteine incorporation
GO:0016188 synaptic vesicle maturation
GO:0050729 positive regulation of inflammatory response

GO:0000184 mRNA catabolism, nonsense-mediated decay
GO:0008633 activation of pro-apoptotic gene products
GO:0006486 protein amino acid glycosylation
GO:0046928 regulation of neurotransmitter secretion
GO:0031532 actin cytoskeleton reorganization
GO:0007568 aging
GO:0008544 epidermis development
GO:0007204 elevation of cytosolic calcium ion concentration
GO:0006898 receptor mediated endocytosis
GO:0009968 negative regulation of signal transduction
GO:0042472 inner ear morphogenesis
GO:0030216 keratinocyte differentiation
GO:0019885 antigen processing and presentation of endogenous peptide antigen via MHC class II
GO:0007094 mitotic spindle checkpoint
GO:0006101 citrate metabolism
GO:0030198 extracellular matrix organization and biogenesis
GO:0019221 cytokine and chemokine mediated signaling pathway
GO:0050821 protein stabilization
GO:0006635 fatty acid beta-oxidation
GO:0019722 calcium-mediated signaling
GO:0006446 regulation of translational initiation
GO:0031145 anaphase-promoting complex-dependent proteasomal ubiquitin-dependent proteolysis
GO:0018105 peptidyl-serine phosphorylation
GO:0015992 proton transport
GO:0048015 phosphoinositide-mediated signaling
GO:0007059 chromosome segregation
GO:0030879 mammary gland development
GO:0001889 liver development
GO:0006032 chitin catabolism
GO:0045995 regulation of embryonic development
GO:0006265 DNA topological change
GO:0030325 adrenal gland development
GO:0045931 positive regulation of progression through mitotic cell cycle
GO:0006338 chromatin remodeling
GO:0000209 protein polyubiquitination
GO:0016254 preassembly of GPI anchor in ER membrane
GO:0042542 response to hydrogen peroxide
GO:0009411 response to UV
GO:0015758 glucose transport
GO:0006865 amino acid transport
GO:0009083 branched chain family amino acid catabolism
GO:0051457 maintenance of protein localization in nucleus
GO:0042102 positive regulation of T cell proliferation
GO:0032312 regulation of ARF GTPase activity
GO:0042552 myelination
GO:0007190 adenylate cyclase activation
GO:0019229 regulation of vasoconstriction
GO:0006081 aldehyde metabolism
GO:0006541 glutamine metabolism
GO:0045162 clustering of voltage-gated sodium channels
GO:0045663 positive regulation of myoblast differentiation
GO:0002063 chondrocyte development

G0:0060023 soft palate development
G0:0030263 apoptotic chromosome condensation
G0:0018242 protein amino acid O-linked glycosylation via serine
G0:0018243 protein amino acid O-linked glycosylation via threonine
G0:0048861 leukemia inhibitory factor signaling pathway
G0:0007412 axon target recognition
G0:0035024 negative regulation of Rho protein signal transduction
G0:0043570 maintenance of DNA repeat elements
G0:0006333 chromatin assembly or disassembly
G0:0007219 Notch signaling pathway
G0:0043043 peptide biosynthesis
G0:0006688 glycosphingolipid biosynthesis
G0:0006707 cholesterol catabolism
G0:0006303 double-strand break repair via nonhomologous end joining
G0:0033209 tumor necrosis factor-mediated signaling pathway
G0:0051216 cartilage development
G0:0043627 response to estrogen stimulus
G0:0030574 collagen catabolism
G0:0016525 negative regulation of angiogenesis
G0:0045740 positive regulation of DNA replication
G0:0006888 ER to Golgi vesicle-mediated transport
G0:0045736 negative regulation of cyclin-dependent protein kinase activity
G0:0032355 response to estradiol stimulus
G0:0045843 negative regulation of striated muscle development
G0:0007259 JAK-STAT cascade
G0:0042981 regulation of apoptosis
G0:0006968 cellular defense response
G0:0051384 response to glucocorticoid stimulus
G0:0006310 DNA recombination
G0:0006406 mRNA export from nucleus
G0:0035116 embryonic hindlimb morphogenesis
G0:0030866 cortical actin cytoskeleton organization and biogenesis
G0:0051289 protein homotetramerization
G0:0030071 regulation of mitotic metaphase/anaphase transition
G0:0030032 lamellipodium biogenesis
G0:0042517 positive regulation of tyrosine phosphorylation of Stat3 protein
G0:0051436 negative regulation of ubiquitin ligase activity during mitotic cell cycle
G0:0008152 metabolism
G0:0030334 regulation of cell migration
G0:0019835 cytolysis
G0:0030900 forebrain development
G0:0006003 fructose 2,6-bisphosphate metabolism
G0:0010613 positive regulation of cardiac muscle hypertrophy
G0:0034383 low-density lipoprotein particle clearance
G0:0006422 aspartyl-tRNA aminoacylation
G0:0051450 myoblast proliferation
G0:0006689 ganglioside catabolism
G0:0051096 positive regulation of helicase activity
G0:0008654 phospholipid biosynthesis
G0:0016339 calcium-dependent cell-cell adhesion
G0:0001764 neuron migration
G0:0006094 gluconeogenesis

GO:0008015 circulation
GO:0016197 endosome transport
GO:0009954 proximal/distal pattern formation
GO:0010744 positive regulation of foam cell differentiation
GO:0001502 cartilage condensation
GO:0007030 Golgi organization and biogenesis
GO:0010332 response to gamma radiation
GO:0006368 RNA elongation from RNA polymerase II promoter
GO:0042326 negative regulation of phosphorylation
GO:0009408 response to heat
GO:0030203 glycosaminoglycan metabolism
GO:0001702 gastrulation (sensu Deuterostomia)
GO:0007043 intercellular junction assembly
GO:0007566 embryo implantation
GO:0006930 substrate-bound cell migration, cell extension
GO:0051895 negative regulation of focal adhesion formation
GO:0032092 positive regulation of protein binding
GO:0001736 establishment of planar polarity
GO:0045910 negative regulation of DNA recombination
GO:0051607 defense response to virus
GO:0015914 phospholipid transport
GO:0016049 cell growth
GO:0007416 synaptogenesis
GO:0006885 regulation of pH
GO:0000070 mitotic sister chromatid segregation
GO:0042733 embryonic digit morphogenesis
GO:0008206 bile acid metabolism
GO:0001974 blood vessel remodeling
GO:0006957 complement activation, alternative pathway
GO:0001755 neural crest cell migration
GO:0060021 palate development
GO:0050772 positive regulation of axonogenesis
GO:0048168 regulation of neuronal synaptic plasticity
GO:0043029 T cell homeostasis
GO:0007585 respiratory gaseous exchange
GO:0008543 fibroblast growth factor receptor signaling pathway
GO:0030509 BMP signaling pathway
GO:0030855 epithelial cell differentiation
GO:0014065 phosphoinositide 3-kinase cascade
GO:0045727 positive regulation of protein biosynthesis
GO:0046847 filopodium formation
GO:0007628 adult walking behavior
GO:0045768 positive regulation of anti-apoptosis
GO:0019915 sequestering of lipid
GO:0015813 glutamate transport
GO:0006914 autophagy
GO:0008344 adult locomotory behavior
GO:0001822 kidney development
GO:0045773 positive regulation of axon extension
GO:0006590 thyroid hormone generation
GO:0034374 low-density lipoprotein particle remodeling
GO:0007016 cytoskeletal anchoring

GO:0006658 phosphatidylserine metabolism
GO:0007185 transmembrane receptor protein tyrosine phosphatase signaling pathway
GO:0034341 response to interferon-gamma
GO:0006467 protein thiol-disulfide exchange
GO:0006027 glycosaminoglycan catabolism
GO:0008340 determination of adult life span
GO:0045749 negative regulation of S phase of mitotic cell cycle
GO:0001837 epithelial to mesenchymal transition
GO:0006309 DNA fragmentation during apoptosis
GO:0008542 visual learning
GO:0006516 glycoprotein catabolism
GO:0006730 one-carbon compound metabolism
GO:0006334 nucleosome assembly
GO:0006364 rRNA processing
GO:0007519 striated muscle development
GO:0000086 G2/M transition of mitotic cell cycle
GO:0007157 heterophilic cell adhesion
GO:0046488 phosphatidylinositol metabolism
GO:0048041 focal adhesion formation
GO:0007626 locomotory behavior
GO:0006694 steroid biosynthesis
GO:0016255 attachment of GPI anchor to protein
GO:0006105 succinate metabolism
GO:0060396 growth hormone receptor signaling pathway
GO:0031529 ruffle organization and biogenesis
GO:0032402 melanosome transport
GO:0009113 purine base biosynthesis
GO:0006107 oxaloacetate metabolism
GO:0006777 Mo-molybdopterin cofactor biosynthesis
GO:0016226 iron-sulfur cluster assembly
GO:0045444 fat cell differentiation
GO:0030968 unfolded protein response
GO:0045190 isotype switching
GO:0007611 learning and/or memory
GO:0045766 positive regulation of angiogenesis
GO:0060048 cardiac muscle contraction
GO:0045445 myoblast differentiation
GO:0030178 negative regulation of Wnt receptor signaling pathway
GO:0000718 nucleotide-excision repair, DNA damage removal
GO:0030206 chondroitin sulfate biosynthesis
GO:0030856 regulation of epithelial cell differentiation
GO:0035303 regulation of dephosphorylation
GO:0006911 phagocytosis, engulfment
GO:0010149 senescence (sensu Magnoliophyta)
GO:0001975 response to amphetamine
GO:0002675 positive regulation of acute inflammatory response
GO:0042787 protein ubiquitination during ubiquitin-dependent protein catabolism
GO:0006895 Golgi to endosome transport
GO:0021756 striatum development
GO:0009405 pathogenesis
GO:0007265 Ras protein signal transduction
GO:0015986 ATP synthesis coupled proton transport

G0:0008624 induction of apoptosis by extracellular signals
G0:0006413 translational initiation
G0:0008630 DNA damage response, signal transduction resulting in induction of apopt
G0:0032496 response to lipopolysaccharide
G0:0006471 protein amino acid ADP-ribosylation
G0:0007254 JNK cascade
G0:0006469 negative regulation of protein kinase activity
G0:0045840 positive regulation of mitosis
G0:0030317 sperm motility
G0:0006044 N-acetylglucosamine metabolism
G0:0060041 retina development in camera-type eye
G0:0045671 negative regulation of osteoclast differentiation
G0:0030299 cholesterol absorption
G0:0010595 positive regulation of endothelial cell migration
G0:0002076 osteoblast development
G0:0045909 positive regulation of vasodilation
G0:0006559 L-phenylalanine catabolism
G0:0045725 positive regulation of glycogen biosynthesis
G0:0032088 inhibition of NF-kappaB transcription factor
G0:0000731 DNA synthesis during DNA repair
G0:0010745 negative regulation of foam cell differentiation
G0:0042994 cytoplasmic sequestering of transcription factor
G0:0006171 cAMP biosynthesis
G0:0006829 zinc ion transport
G0:0030997 regulation of centriole-centriole cohesion
G0:0051155 positive regulation of striated muscle cell differentiation
G0:0006855 multidrug transport
G0:0032914 positive regulation of transforming growth factor-beta1 production
G0:0002230 positive regulation of antiviral response by host
G0:0006410 transcription, RNA-dependent
G0:0045869 negative regulation of retroviral genome replication
G0:0060135 maternal process involved in pregnancy
G0:0045629 negative regulation of T-helper 2 cell differentiation
G0:0043482 cellular pigment accumulation
G0:0000066 mitochondrial ornithine transport
G0:0032764 negative regulation of mast cell cytokine production
G0:0006868 glutamine transport
G0:0007079 mitotic chromosome movement towards spindle pole
G0:0048012 hepatocyte growth factor receptor signaling pathway
G0:0008065 establishment of blood-nerve barrier
G0:0006287 base-excision repair, gap-filling
G0:0002268 follicular dendritic cell differentiation
G0:0006264 mitochondrial DNA replication
G0:0002051 osteoblast fate commitment
G0:0006426 glycyl-tRNA aminoacylation
G0:0006423 cysteinyl-tRNA aminoacylation
G0:0045842 positive regulation of mitotic metaphase/anaphase transition
G0:0006478 peptidyl-tyrosine sulfation
G0:0006749 glutathione metabolism
G0:0016358 dendrite development
G0:0046627 negative regulation of insulin receptor signaling pathway
G0:0008589 regulation of smoothed signaling pathway

GO:0035176 social behavior
GO:0016180 snRNA processing
GO:0030878 thyroid gland development
GO:0006750 glutathione biosynthesis
GO:0000050 urea cycle
GO:0001953 negative regulation of cell-matrix adhesion
GO:0045885 positive regulation of survival gene product activity
GO:0001649 osteoblast differentiation
GO:0000165 MAPKKK cascade
GO:0006928 cell motility
GO:0032012 regulation of ARF protein signal transduction
GO:0006820 anion transport
GO:0006396 RNA processing
GO:0000226 microtubule cytoskeleton organization and biogenesis
GO:0042475 odontogenesis (sensu Vertebrata)
GO:0060070 Wnt receptor signaling pathway through beta-catenin
GO:0048488 synaptic vesicle endocytosis
GO:0030520 estrogen receptor signaling pathway
GO:0018107 peptidyl-threonine phosphorylation
GO:0000045 autophagic vacuole formation
GO:0046716 muscle maintenance
GO:0007512 adult heart development
GO:0046677 response to antibiotic
GO:0048286 alveolus development
GO:0051591 response to cAMP
GO:0045086 positive regulation of interleukin-2 biosynthesis
GO:0008584 male gonad development
GO:0006289 nucleotide-excision repair
GO:0000079 regulation of cyclin-dependent protein kinase activity
GO:0009612 response to mechanical stimulus
GO:0007051 spindle organization and biogenesis
GO:0000077 DNA damage checkpoint
GO:0030890 positive regulation of B cell proliferation
GO:0007250 activation of NF-kappaB-inducing kinase
GO:0030433 ER-associated protein catabolism
GO:0010165 response to X-ray
GO:0048469 cell maturation
GO:0045765 regulation of angiogenesis
GO:0016477 cell migration
GO:0043410 positive regulation of MAPKKK cascade
GO:0000060 protein import into nucleus, translocation
GO:0006805 xenobiotic metabolism
GO:0009636 response to toxin
GO:0007422 peripheral nervous system development
GO:0001890 placenta development
GO:0045777 positive regulation of blood pressure
GO:0046718 entry of virus into host cell
GO:0000186 activation of MAPKK activity
GO:0033344 cholesterol efflux
GO:0007263 nitric oxide mediated signal transduction
GO:0045058 T cell selection
GO:0007172 signal complex formation

GO:0046326 positive regulation of glucose import
GO:0007052 mitotic spindle organization and biogenesis
GO:0007188 G-protein signaling, coupled to cAMP nucleotide second messenger
GO:0046548 retinal rod cell development
GO:0015014 heparan sulfate proteoglycan biosynthesis, polysaccharide chain biosynt
GO:0001958 endochondral ossification
GO:0043589 skin morphogenesis
GO:0035307 positive regulation of protein amino acid dephosphorylation
GO:0042832 defense response to protozoan
GO:0051549 positive regulation of keratinocyte migration
GO:0006435 threonyl-tRNA aminoacylation
GO:0045010 actin nucleation
GO:0007195 dopamine receptor, adenylate cyclase inhibiting pathway
GO:0042420 dopamine catabolism
GO:0001553 luteinization
GO:0045475 locomotor rhythm
GO:0006288 base-excision repair, DNA ligation
GO:0007080 mitotic metaphase plate congression
GO:0051382 kinetochore assembly
GO:0032568 general transcription from RNA polymerase II promoter
GO:0048013 ephrin receptor signaling pathway
GO:0021938 smoothed signaling pathway in regulation of granule cell precursor cel
GO:0000212 meiotic spindle organization and biogenesis
GO:0048645 organ formation
GO:0032332 positive regulation of chondrocyte differentiation
GO:0060087 relaxation of vascular smooth muscle
GO:0034394 protein localization at cell surface
GO:0040001 establishment of mitotic spindle localization
GO:0042977 tyrosine phosphorylation of JAK2 protein
GO:0006549 isoleucine metabolism
GO:0046449 creatinine metabolism
GO:0016446 somatic hypermutation of immunoglobulin genes
GO:0043415 positive regulation of skeletal muscle regeneration
GO:0007182 common-partner SMAD protein phosphorylation
GO:0016337 cell-cell adhesion
GO:0006874 calcium ion homeostasis
GO:0006584 catecholamine metabolism
GO:0009116 nucleoside metabolism
GO:0030514 negative regulation of BMP signaling pathway
GO:0006306 DNA methylation
GO:0045446 endothelial cell differentiation
GO:0030307 positive regulation of cell growth
GO:0032526 response to retinoic acid
GO:0016601 Rac protein signal transduction
GO:0050830 defense response to Gram-positive bacterium
GO:0007338 fertilization (sensu Metazoa)
GO:0030301 cholesterol transport
GO:0030041 actin filament polymerization
GO:0007612 learning
GO:0016486 peptide hormone processing
GO:0030511 positive regulation of transforming growth factor beta receptor signalir
GO:0031018 endocrine pancreas development

G0:0008299 isoprenoid biosynthesis
G0:0000084 S phase of mitotic cell cycle
G0:0043462 regulation of ATPase activity
G0:0007093 mitotic checkpoint
G0:0045892 negative regulation of transcription, DNA-dependent
G0:0000075 cell cycle checkpoint
G0:0043542 endothelial cell migration
G0:0007623 circadian rhythm
G0:0055085 transmembrane transport
G0:0009653 morphogenesis
G0:0021983 pituitary gland development
G0:0046320 regulation of fatty acid oxidation
G0:0050680 negative regulation of epithelial cell proliferation
G0:0009755 hormone-mediated signaling
G0:0015840 urea transport
G0:0030818 negative regulation of cAMP biosynthesis
G0:0014824 artery smooth muscle contraction
G0:0051151 negative regulation of smooth muscle cell differentiation
G0:0002040 sprouting angiogenesis
G0:0010748 negative regulation of plasma membrane long-chain fatty acid transport
G0:0032695 negative regulation of interleukin-12 production
G0:0031053 primary microRNA processing
G0:0042149 cellular response to glucose starvation
G0:0016553 base conversion or substitution editing
G0:0050847 progesterone receptor signaling pathway
G0:0007029 endoplasmic reticulum organization and biogenesis
G0:0045747 positive regulation of Notch signaling pathway
G0:0051014 actin filament severing
G0:0032455 nerve growth factor processing
G0:0048625 myoblast cell fate commitment
G0:0030889 negative regulation of B cell proliferation
G0:0030388 fructose 1,6-bisphosphate metabolism
G0:0009186 deoxyribonucleoside diphosphate metabolism
G0:0000281 cytokinesis after mitosis
G0:0050919 negative chemotaxis
G0:0031953 negative regulation of protein amino acid autophosphorylation
G0:0047496 vesicle transport along microtubule
G0:0019530 taurine metabolism
G0:0045588 positive regulation of gamma-delta T cell differentiation
G0:0051497 negative regulation of stress fiber formation
G0:0031573 intra-S DNA damage checkpoint
G0:0048703 embryonic viscerocranium morphogenesis
G0:0010310 regulation of hydrogen peroxide metabolic process
G0:0007130 synaptonemal complex formation
G0:0015808 L-alanine transport
G0:0015851 nucleobase transport
G0:0030073 insulin secretion
G0:0048009 insulin-like growth factor receptor signaling pathway
G0:0006004 fucose metabolism
G0:0021987 cerebral cortex development
G0:0006302 double-strand break repair
G0:0045429 positive regulation of nitric oxide biosynthesis

G0:0001947 heart looping
G0:0006890 retrograde vesicle-mediated transport, Golgi to ER
G0:0000910 cytokinesis
G0:0006959 humoral immune response
G0:0006939 smooth muscle contraction
G0:0045453 bone resorption
G0:0019370 leukotriene biosynthesis
G0:0006120 mitochondrial electron transport, NADH to ubiquinone
G0:0014047 glutamate secretion
G0:0001678 cell glucose homeostasis
G0:0003100 regulation of systemic arterial blood pressure by endothelin
G0:0009249 protein-lipoylation
G0:0030194 positive regulation of blood coagulation
G0:0006572 tyrosine catabolism
G0:0046685 response to arsenic
G0:0042159 lipoprotein catabolism
G0:0034379 very-low-density lipoprotein particle assembly
G0:0002011 morphogenesis of an epithelial sheet
G0:0016540 protein autoprocessing
G0:0000085 G2 phase of mitotic cell cycle
G0:0007598 blood coagulation, extrinsic pathway
G0:0015904 tetracycline transport
G0:0008631 induction of apoptosis by oxidative stress
G0:0031670 cellular response to nutrient
G0:0046686 response to cadmium ion
G0:0021702 cerebellar Purkinje cell differentiation
G0:0043113 receptor clustering
G0:0001833 inner cell mass cell proliferation
G0:0000389 nuclear mRNA 3'-splice site recognition
G0:0007171 transmembrane receptor protein tyrosine kinase activation (dimerization)
G0:0031116 positive regulation of microtubule polymerization
G0:0007520 myoblast fusion
G0:0048341 paraxial mesoderm formation
G0:0016574 histone ubiquitination
G0:0000012 single strand break repair
G0:0006978 DNA damage response, signal transduction by p53 class mediator resulting
G0:0048255 mRNA stabilization
G0:0010225 response to UV-C
G0:0046473 phosphatidic acid metabolism
G0:0000303 response to superoxide
G0:0001895 retinal homeostasis
G0:0043330 response to exogenous dsRNA
G0:0045723 positive regulation of fatty acid biosynthesis
G0:0000255 allantoin metabolism
G0:0006103 2-oxoglutarate metabolism
G0:0006573 valine metabolism
G0:0007044 cell-substrate junction assembly
G0:0046541 saliva secretion
G0:0006069 ethanol oxidation
G0:0007625 grooming behavior
G0:0007089 traversing start control point of mitotic cell cycle
G0:0042723 thiamin and derivative metabolism

GO:0042060 wound healing
GO:0000188 inactivation of MAPK activity
GO:0017148 negative regulation of protein biosynthesis
GO:0005978 glycogen biosynthesis
GO:0008652 amino acid biosynthesis
GO:0042254 ribosome biogenesis and assembly
GO:0030101 natural killer cell activation
GO:0007189 G-protein signaling, adenylate cyclase activating pathway
GO:0007131 meiotic recombination
GO:0007179 transforming growth factor beta receptor signaling pathway
GO:0050905 neuromuscular physiological process
GO:0014032 neural crest cell development
GO:0051017 actin filament bundle formation
GO:0051262 protein tetramerization
GO:0016338 calcium-independent cell-cell adhesion
GO:0016050 vesicle organization and biogenesis
GO:0050773 regulation of dendrite development
GO:0043536 positive regulation of blood vessel endothelial cell migration
GO:0007413 axonal fasciculation
GO:0050732 negative regulation of peptidyl-tyrosine phosphorylation
GO:0046835 carbohydrate phosphorylation
GO:0006583 melanin biosynthesis from tyrosine
GO:0048525 negative regulation of viral life cycle
GO:0045540 regulation of cholesterol biosynthesis
GO:0006072 glycerol-3-phosphate metabolism
GO:0045745 positive regulation of G-protein coupled receptor protein signaling path
GO:0030838 positive regulation of actin filament polymerization
GO:0007143 female meiosis
GO:0042053 regulation of dopamine metabolism
GO:0006622 protein targeting to lysosome
GO:0007603 phototransduction, visible light
GO:0007406 negative regulation of neuroblast proliferation
GO:0018345 protein palmitoylation
GO:0009263 deoxyribonucleotide biosynthesis
GO:0015991 ATP hydrolysis coupled proton transport
GO:0035019 somatic stem cell maintenance
GO:0001556 oocyte maturation
GO:0060017 parathyroid gland development
GO:0046688 response to copper ion
GO:0006614 SRP-dependent cotranslational protein targeting to membrane
GO:0015937 coenzyme A biosynthesis
GO:0043550 regulation of lipid kinase activity
GO:0006950 response to stress
GO:0006612 protein targeting to membrane
GO:0008637 apoptotic mitochondrial changes
GO:0001657 ureteric bud development
GO:0034097 response to cytokine stimulus
GO:0006284 base-excision repair
GO:0006909 phagocytosis
GO:0006940 regulation of smooth muscle contraction
GO:0007405 neuroblast proliferation
GO:0051297 centrosome organization and biogenesis

G0:0032870 cellular response to hormone stimulus
G0:0006493 protein amino acid O-linked glycosylation
G0:0030048 actin filament-based movement
G0:0019059 initiation of viral infection
G0:0007530 sex determination
G0:0007586 digestion
G0:0007126 meiosis
G0:0001568 blood vessel development
G0:0016485 protein processing
G0:0015844 monoamine transport
G0:0009950 dorsal/ventral axis specification
G0:0030949 positive regulation of vascular endothelial growth factor receptor signaling
G0:0048260 positive regulation of receptor mediated endocytosis
G0:0040015 negative regulation of body size
G0:0007158 neuron adhesion
G0:0030321 transepithelial chloride transport
G0:0046629 gamma-delta T cell activation
G0:0034612 response to tumor necrosis factor
G0:0003016 respiratory system process
G0:0030212 hyaluronan metabolism
G0:0045080 positive regulation of chemokine biosynthesis
G0:0032981 mitochondrial respiratory chain complex I assembly
G0:0045732 positive regulation of protein catabolism
G0:0031623 receptor internalization
G0:0007141 male meiosis I
G0:0007128 meiotic prophase I
G0:0008333 endosome to lysosome transport
G0:0019432 triacylglycerol biosynthesis
G0:0032755 positive regulation of interleukin-6 production
G0:0014068 positive regulation of phosphoinositide 3-kinase cascade
G0:0007567 parturition
G0:0001782 B cell homeostasis
G0:0006111 regulation of gluconeogenesis
G0:0042921 glucocorticoid receptor signaling pathway
G0:0033138 positive regulation of peptidyl-serine phosphorylation
G0:0006546 glycine catabolism
G0:0060263 regulation of respiratory burst
G0:0033365 protein localization in organelle
G0:0000076 DNA replication checkpoint
G0:0048706 embryonic skeletal development
G0:0031032 actomyosin structure organization and biogenesis
G0:0008156 negative regulation of DNA replication
G0:0042176 regulation of protein catabolism
G0:0000387 spliceosomal snRNP biogenesis
G0:0051482 elevation of cytosolic calcium ion concentration during G-protein signaling
G0:0030850 prostate gland development
G0:0045987 positive regulation of smooth muscle contraction
G0:0051205 protein insertion into membrane
G0:0007183 SMAD protein heteromerization
G0:0042953 lipoprotein transport
G0:0050482 arachidonic acid secretion
G0:0032024 positive regulation of insulin secretion

G0:0032438 melanosome organization
G0:0045176 apical protein localization
G0:0018279 protein amino acid N-linked glycosylation via asparagine
G0:0007638 mechanosensory behavior
G0:0007062 sister chromatid cohesion
G0:0001832 blastocyst growth
G0:0019047 provirus integration
G0:0033205 cytokinesis during cell cycle
G0:0006301 postreplication repair
G0:0010224 response to UV-B
G0:0042755 eating behavior
G0:0009790 embryonic development
G0:0019233 sensory perception of pain
G0:0032868 response to insulin stimulus
G0:0010212 response to ionizing radiation
G0:0007498 mesoderm development
G0:0050870 positive regulation of T cell activation
G0:0001707 mesoderm formation
G0:0030534 adult behavior
G0:0000245 spliceosome assembly
G0:0030168 platelet activation
G0:0042474 middle ear morphogenesis
G0:0035050 embryonic heart tube development
G0:0006983 ER overload response
G0:0048844 artery morphogenesis
G0:0006491 N-glycan processing
G0:0006379 mRNA cleavage
G0:0009435 NAD biosynthesis
G0:0051044 positive regulation of membrane protein ectodomain proteolysis
G0:0005513 detection of calcium ion
G0:0008045 motor axon guidance
G0:0050853 B cell receptor signaling pathway
G0:0043691 reverse cholesterol transport
G0:0000160 two-component signal transduction system (phosphorelay)
G0:0046513 ceramide biosynthesis
G0:0002467 germinal center formation
G0:0042255 ribosome assembly
G0:0016045 detection of bacterium
G0:0006600 creatine metabolism
G0:0048070 regulation of developmental pigmentation
G0:0006857 oligopeptide transport
G0:0016571 histone methylation
G0:0006878 copper ion homeostasis
G0:0042523 positive regulation of tyrosine phosphorylation of Stat5 protein
G0:0045941 positive regulation of transcription
G0:0030097 hemopoiesis
G0:0001709 cell fate determination
G0:0030155 regulation of cell adhesion
G0:0042742 defense response to bacterium
G0:0048593 eye morphogenesis (sensu Vertebrata)
G0:0040008 regulation of growth
G0:0002687 positive regulation of leukocyte migration

G0:0006548 histidine catabolism
G0:0055007 cardiac muscle cell differentiation
G0:0045668 negative regulation of osteoblast differentiation
G0:0001759 induction of an organ
G0:0006098 pentose-phosphate shunt
G0:0001662 behavioral fear response
G0:0043030 regulation of macrophage activation
G0:0043409 negative regulation of MAPKKK cascade
G0:0031398 positive regulation of protein ubiquitination
G0:0050850 positive regulation of calcium-mediated signaling
G0:0003009 skeletal muscle contraction
G0:0048011 nerve growth factor receptor signaling pathway
G0:0016311 dephosphorylation
G0:0009725 response to hormone stimulus
G0:0007194 negative regulation of adenylate cyclase activity
G0:0008219 cell death
G0:0007409 axonogenesis
G0:0007015 actin filament organization
G0:0001938 positive regulation of endothelial cell proliferation
G0:0042993 positive regulation of transcription factor import into nucleus
G0:0016079 synaptic vesicle exocytosis
G0:0030901 midbrain development
G0:0048048 embryonic eye morphogenesis
G0:0048813 dendrite morphogenesis
G0:0042771 DNA damage response, signal transduction by p53 class mediator resulting
G0:0006183 GTP biosynthesis
G0:0006228 UTP biosynthesis
G0:0045742 positive regulation of epidermal growth factor receptor signaling pathwa
G0:0042177 negative regulation of protein catabolism
G0:0043154 negative regulation of caspase activity
G0:0032369 negative regulation of lipid transport
G0:0006656 phosphatidylcholine biosynthesis
G0:0042593 glucose homeostasis
G0:0051258 protein polymerization
G0:0001659 thermoregulation
G0:0007202 phospholipase C activation
G0:0051209 release of sequestered calcium ion into cytosol
G0:0009143 nucleoside triphosphate catabolism
G0:0042491 auditory receptor cell differentiation
G0:0007096 regulation of exit from mitosis
G0:0006835 dicarboxylic acid transport
G0:0021696 cerebellar cortex morphogenesis
G0:0042088 T-helper 1 type immune response
G0:0006241 CTP biosynthesis
G0:0002347 response to tumor cell
G0:0042476 odontogenesis
G0:0030516 regulation of axon extension
G0:0001658 ureteric bud branching
G0:0006607 NLS-bearing substrate import into nucleus
G0:0050810 regulation of steroid biosynthesis
G0:0031575 G1/S transition checkpoint
G0:0042554 superoxide release

GO:0046620 regulation of organ size
GO:0051881 regulation of mitochondrial membrane potential
GO:0046330 positive regulation of JNK cascade
GO:0009409 response to cold
GO:0001504 neurotransmitter uptake
GO:0008625 induction of apoptosis via death domain receptors
GO:0031668 cellular response to extracellular stimulus
GO:0006487 protein amino acid N-linked glycosylation
GO:0006825 copper ion transport
GO:0046888 negative regulation of hormone secretion
GO:0007339 binding of sperm to zona pellucida
GO:0006144 purine base metabolism
GO:0016573 histone acetylation
GO:0050709 negative regulation of protein secretion
GO:0007212 dopamine receptor signaling pathway
GO:0048738 cardiac muscle development
GO:0006700 C21-steroid hormone biosynthesis
GO:0000080 G1 phase of mitotic cell cycle
GO:0001523 retinoid metabolism
GO:0051668 localization within membrane
GO:0042157 lipoprotein metabolism
GO:0007200 G-protein signaling, coupled to IP3 second messenger (phospholipase C ac
GO:0006164 purine nucleotide biosynthesis
GO:0030902 hindbrain development
GO:0045664 regulation of neuron differentiation
GO:0051259 protein oligomerization
GO:0009880 embryonic pattern specification
GO:0043434 response to peptide hormone stimulus
GO:0045666 positive regulation of neuron differentiation
GO:0007271 synaptic transmission, cholinergic
GO:0045055 regulated secretory pathway
GO:0042744 hydrogen peroxide catabolism
GO:0021545 cranial nerve development
GO:0007009 plasma membrane organization and biogenesis
GO:0008272 sulfate transport
GO:0006942 regulation of striated muscle contraction
GO:0031047 RNA-mediated gene silencing
GO:0008038 neuron recognition
GO:0016998 cell wall catabolism
GO:0001711 endodermal cell fate commitment
GO:0030858 positive regulation of epithelial cell differentiation
GO:0031547 brain-derived neurotrophic factor receptor signaling pathway
GO:0035066 positive regulation of histone acetylation
GO:0015670 carbon dioxide transport
GO:0042313 protein kinase C deactivation
GO:0051771 negative regulation of nitric-oxide synthase biosynthesis
GO:0042489 negative regulation of odontogenesis (sensu Vertebrata)
GO:0019371 cyclooxygenase pathway
GO:0006172 ADP biosynthesis
GO:0006173 dADP biosynthesis
GO:0015755 fructose transport
GO:0045602 negative regulation of endothelial cell differentiation

G0:0002581 negative regulation of antigen processing and presentation of peptide or
G0:0002605 negative regulation of dendritic cell antigen processing and presentatio
G0:0043652 engulfment of apoptotic cell
G0:0010751 negative regulation of nitric oxide mediated signal transduction
G0:0010754 negative regulation of cGMP-mediated signaling
G0:0010757 negative regulation of plasminogen activation
G0:0010759 positive regulation of macrophage chemotaxis
G0:0002539 prostaglandin production during acute inflammatory response
G0:0043651 linoleic acid metabolism
G0:0018872 arsonoacetate metabolism
G0:0007424 tracheal system development (sensu Insecta)
G0:0007501 mesodermal cell fate specification
G0:0006196 AMP catabolism
G0:0019100 male germ-line sex determination
G0:0002223 stimulatory C-type lectin receptor signaling pathway
G0:0016344 meiotic chromosome movement towards spindle pole
G0:0040038 polar body extrusion after meiotic divisions
G0:0021557 oculomotor nerve development
G0:0021558 trochlear nerve development
G0:0034230 enkephalin processing
G0:0034231 islet amyloid polypeptide processing
G0:0043128 positive regulation of 1-phosphatidylinositol 4-kinase activity
G0:0051451 myoblast migration
G0:0051594 detection of glucose
G0:0001300 chronological cell aging
G0:0034241 positive regulation of macrophage fusion
G0:0001921 positive regulation of receptor recycling
G0:0034959 endothelin maturation
G0:0008057 eye pigment granule organization and biogenesis
G0:0045870 positive regulation of retroviral genome replication
G0:0018146 keratan sulfate biosynthesis
G0:0010044 response to aluminum ion
G0:0045654 positive regulation of megakaryocyte differentiation
G0:0060324 face development
G0:0031630 regulation of synaptic vesicle fusion to presynaptic membrane
G0:0048790 maintenance of presynaptic active zone structure
G0:0050975 sensory perception of touch
G0:0051602 response to electrical stimulus
G0:0014707 branchiomic skeletal muscle development
G0:0019682 glyceraldehyde-3-phosphate metabolism
G0:0002686 negative regulation of leukocyte migration
G0:0043305 negative regulation of mast cell degranulation
G0:0006231 dTMP biosynthesis
G0:0009157 deoxyribonucleoside monophosphate biosynthesis
G0:0016242 negative regulation of macroautophagy
G0:0006554 lysine catabolism
G0:0006062 sorbitol catabolism
G0:0046370 fructose biosynthesis
G0:0051160 L-xylitol catabolism
G0:0046947 hydroxylysine biosynthesis
G0:0021919 BMP signaling pathway in spinal cord dorsal-ventral patterning
G0:0033504 floor plate development

G0:0032224 positive regulation of synaptic transmission, cholinergic
G0:0021660 rhombomere 3 formation
G0:0021666 rhombomere 5 formation
G0:0048752 semicircular canal morphogenesis
G0:0060005 vestibular reflex
G0:0006649 phospholipid transfer to membrane
G0:0021897 forebrain astrocyte development
G0:0048677 axon extension involved in regeneration
G0:0031581 hemidesmosome assembly
G0:0048386 positive regulation of retinoic acid receptor signaling pathway
G0:0006683 galactosylceramide catabolism
G0:0046208 spermine catabolism
G0:0031441 negative regulation of mRNA 3'-end processing
G0:0007258 JUN phosphorylation
G0:0016189 synaptic vesicle to endosome fusion
G0:0050823 peptide antigen stabilization
G0:0030393 fructoselysine metabolism
G0:0002072 optic cup morphogenesis (sensu Mammalia)
G0:0021768 nucleus accumbens development
G0:0021999 neural plate anterioposterior pattern formation
G0:0008049 male courtship behavior
G0:0045603 positive regulation of endothelial cell differentiation
G0:0035083 cilium axoneme biogenesis
G0:0065001 specification of axis polarity
G0:0001762 beta-alanine transport
G0:0015734 taurine transport
G0:0006145 purine base catabolism
G0:0006214 thymidine catabolism
G0:0048793 pronephros development
G0:0032229 negative regulation of synaptic transmission, GABAergic
G0:0006565 L-serine catabolism
G0:0007527 adult somatic muscle development
G0:0051102 DNA ligation during DNA recombination
G0:0033153 T cell receptor V(D)J recombination
G0:0034340 response to type I interferon
G0:0021592 fourth ventricle development
G0:0021670 lateral ventricle development
G0:0021678 third ventricle development
G0:0046293 formaldehyde biosynthesis
G0:0033169 histone H3-K9 demethylation
G0:0045381 regulation of interleukin-18 biosynthesis
G0:0045751 negative regulation of Toll signaling pathway
G0:0033595 response to genistein
G0:0033600 negative regulation of mammary gland epithelial cell proliferation
G0:0006272 leading strand elongation
G0:0006273 lagging strand elongation
G0:0002315 marginal zone B cell differentiation
G0:0001682 tRNA 5'-leader removal
G0:0016078 tRNA catabolism
G0:0015744 succinate transport
G0:0042412 taurine biosynthesis
G0:0046439 L-cysteine metabolism

G0:0016082 synaptic vesicle priming
G0:0046833 positive regulation of RNA export from nucleus
G0:0000747 conjugation with cellular fusion
G0:0032486 Rap protein signal transduction
G0:0010159 specification of organ position
G0:0010826 negative regulation of centrosome duplication
G0:0031062 positive regulation of histone methylation
G0:0060032 notochord regression
G0:0032287 myelin maintenance in the peripheral nervous system
G0:0032498 detection of muramyl dipeptide
G0:0032701 negative regulation of interleukin-18 production
G0:0034136 negative regulation of toll-like receptor 2 signaling pathway
G0:0051790 short-chain fatty acid biosynthesis
G0:0051792 medium-chain fatty acid biosynthesis
G0:0032972 regulation of muscle filament sliding speed
G0:0001998 angiotensin mediated vasoconstriction during regulation of blood pressure
G0:0002019 angiotensin mediated regulation of renal output
G0:0048143 astrocyte activation
G0:0014873 response to muscle activity involved in regulation of muscle adaptation
G0:0019265 glycine biosynthesis, by transamination of glyoxylate
G0:0042866 pyruvate biosynthesis
G0:0046724 oxalic acid secretion
G0:0006051 N-acetylmannosamine metabolism
G0:0019060 intracellular transport of viral proteins in host cell
G0:0045023 G0 to G1 transition
G0:0000710 meiotic mismatch repair
G0:0050902 leukocyte adhesive activation
G0:0051041 positive regulation of calcium-independent cell-cell adhesion
G0:0046855 inositol phosphate dephosphorylation
G0:0046856 phosphoinositide dephosphorylation
G0:0007614 short-term memory
G0:0035129 post-embryonic hindlimb morphogenesis
G0:0032790 ribosome disassembly
G0:0001887 selenium metabolism
G0:0051642 centrosome localization
G0:0032793 positive regulation of CREB transcription factor activity
G0:0031946 regulation of glucocorticoid biosynthesis
G0:0009294 DNA mediated transformation
G0:0006178 guanine salvage
G0:0045964 positive regulation of dopamine metabolism
G0:0007035 vacuolar acidification
G0:0051764 actin crosslink formation
G0:0032966 negative regulation of collagen biosynthetic process
G0:0055096 low density lipoprotein mediated signaling
G0:0050760 negative regulation of thymidylate synthase biosynthesis
G0:0048006 antigen processing and presentation, endogenous lipid antigen via MHC class I
G0:0000717 nucleotide-excision repair, DNA duplex unwinding
G0:0060022 hard palate development
G0:0019089 transmission of virus
G0:0010766 negative regulation of sodium ion transport
G0:0010768 negative regulation of transcription from RNA polymerase II promoter in interphase
G0:0052171 growth or development during symbiotic interaction

G0:0032468 Golgi calcium ion homeostasis
G0:0032472 Golgi calcium ion transport
G0:0045199 maintenance of epithelial cell polarity
G0:0015789 UDP-N-acetylgalactosamine transport
G0:0002316 follicular B cell differentiation
G0:0042276 error-prone postreplication DNA repair
G0:0019102 male somatic sex determination
G0:0019244 lactate biosynthesis from pyruvate
G0:0008655 pyrimidine salvage
G0:0009972 cytidine deamination
G0:0046087 cytidine metabolism
G0:0032119 sequestering of zinc ion
G0:0048075 positive regulation of eye pigmentation
G0:0015747 urate transport
G0:0001835 blastocyst hatching
G0:0048808 male genitalia morphogenesis
G0:0021785 branchiomotor neuron axon guidance
G0:0034263 autophagy in response to ER overload
G0:0009399 nitrogen fixation
G0:0015888 thiamin transport
G0:0030007 potassium ion homeostasis
G0:0045794 negative regulation of cell volume
G0:0034465 response to carbon monoxide
G0:0060082 eye blink reflex
G0:0060083 smooth muscle contraction involved in micturition
G0:0018119 peptidyl-cysteine S-nitrosylation
G0:0046294 formaldehyde catabolism
G0:0001986 decreased strength of heart contraction during baroreceptor response to
G0:0001994 norepinephrine-epinephrine vasoconstriction during regulation of blood p
G0:0051036 regulation of endosome volume
G0:0015684 ferrous iron transport
G0:0043380 regulation of memory T cell differentiation
G0:0048294 negative regulation of isotype switching to IgE isotypes
G0:0015864 pyrimidine nucleoside transport
G0:0006535 cysteine biosynthesis from serine
G0:0019343 cysteine biosynthesis via cystathione
G0:0033037 polysaccharide localization
G0:0009236 cobalamin biosynthesis
G0:0016340 calcium-dependent cell-matrix adhesion
G0:0018350 protein amino acid esterification
G0:0044258 intestinal lipid catabolism
G0:0009441 glycolate metabolism
G0:0014834 satellite cell maintenance involved in skeletal muscle regeneration
G0:0014904 myotube cell development
G0:0045724 positive regulation of flagellum biogenesis
G0:0050893 sensory processing
G0:0034454 microtubule anchoring at centrosome
G0:0042823 pyridoxal phosphate biosynthesis
G0:0030857 negative regulation of epithelial cell differentiation
G0:0033484 nitric oxide homeostasis
G0:0002001 renin secretion into blood stream
G0:0051788 response to misfolded protein

G0:0010756 positive regulation of plasminogen activation
G0:0034373 intermediate-density lipoprotein particle remodeling
G0:0034638 phosphatidylcholine catabolic process
G0:0050689 negative regulation of antiviral response by host
G0:0046491 L-methylmalonyl-CoA metabolism
G0:0046604 positive regulation of mitotic centrosome separation
G0:0045143 homologous chromosome segregation
G0:0045875 negative regulation of sister chromatid cohesion
G0:0031223 auditory behavior
G0:0035148 lumen formation
G0:0045719 negative regulation of glycogen biosynthesis
G0:0006256 UDP catabolism
G0:0042780 tRNA 3'-processing
G0:0006867 asparagine transport
G0:0015817 histidine transport
G0:0002651 positive regulation of tolerance induction to self antigen
G0:0030047 actin modification
G0:0030218 erythrocyte differentiation
G0:0008037 cell recognition
G0:0006401 RNA catabolism
G0:0006839 mitochondrial transport
G0:0040014 regulation of body size
G0:0009168 purine ribonucleoside monophosphate biosynthesis
G0:0021575 hindbrain morphogenesis
G0:0046854 phosphoinositide phosphorylation
G0:0007041 lysosomal transport
G0:0000724 double-strand break repair via homologous recombination
G0:0043473 pigmentation
G0:0007631 feeding behavior
G0:0006091 generation of precursor metabolites and energy
G0:0048511 rhythmic process
G0:0030593 neutrophil chemotaxis
G0:0045651 positive regulation of macrophage differentiation
G0:0042730 fibrinolysis
G0:0001933 negative regulation of protein amino acid phosphorylation
G0:0031175 neurite development
G0:0006937 regulation of muscle contraction
G0:0042490 mechanoreceptor differentiation
G0:0009395 phospholipid catabolism
G0:0043588 skin development
G0:0017156 calcium ion-dependent exocytosis
G0:0006891 intra-Golgi vesicle-mediated transport
G0:0006626 protein targeting to mitochondrion
G0:0006944 membrane fusion
G0:0007162 negative regulation of cell adhesion
G0:0055010 ventricular cardiac muscle morphogenesis
G0:0007249 I-kappaB kinase/NF-kappaB cascade
G0:0045494 photoreceptor maintenance
G0:0042246 tissue regeneration
G0:0003014 renal system process
G0:0016447 somatic recombination of immunoglobulin gene segments
G0:0000902 cell morphogenesis

G0:0003007 heart morphogenesis
G0:0051605 proteolysis during protein maturation
G0:0019439 aromatic compound catabolism
G0:0046328 regulation of JNK cascade
G0:0006479 protein amino acid methylation
G0:0006024 glycosaminoglycan biosynthesis
G0:0001706 endoderm formation
G0:0051968 positive regulation of synaptic transmission, glutamatergic
G0:0045722 positive regulation of gluconeogenesis
G0:0006679 glucosylceramide biosynthesis
G0:0018153 isopeptide cross-linking via N6-(L-isoglutamyl)-L-lysine
G0:0006429 leucyl-tRNA aminoacylation
G0:0042339 keratan sulfate metabolism
G0:0045906 negative regulation of vasoconstriction
G0:0030210 heparin biosynthesis
G0:0046398 UDP-glucuronate metabolism
G0:0050653 chondroitin sulfate proteoglycan biosynthesis, polysaccharide chain biosynthesis
G0:0015798 myo-inositol transport
G0:0030185 nitric oxide transport
G0:0031583 G-protein signaling, phospholipase D activating pathway
G0:0043179 rhythmic excitation
G0:0060298 positive regulation of sarcomere organization
G0:0001798 positive regulation of type IIa hypersensitivity
G0:0006710 androgen catabolism
G0:0043006 calcium-dependent phospholipase A2 activation
G0:0032026 response to magnesium ion
G0:0040037 negative regulation of fibroblast growth factor receptor signaling pathway
G0:0010670 positive regulation of oxygen and reactive oxygen species metabolic processes
G0:0010763 positive regulation of fibroblast cell migration
G0:0034605 cellular response to heat
G0:0043508 negative regulation of JNK activity
G0:0019049 evasion of host defenses by virus
G0:0032057 negative regulation of translation initiation in response to stress
G0:0006642 triacylglycerol mobilization
G0:0001957 intramembranous ossification
G0:0045657 positive regulation of monocyte differentiation
G0:0045627 positive regulation of T-helper 1 cell differentiation
G0:0007132 meiotic metaphase I
G0:0051295 establishment of meiotic spindle localization
G0:0021555 midbrain-hindbrain boundary morphogenesis
G0:0045608 negative regulation of auditory receptor cell differentiation
G0:0060164 regulation of timing of neuron differentiation
G0:0030070 insulin processing
G0:0042359 vitamin D metabolism
G0:0060009 Sertoli cell development
G0:0000921 septin ring assembly
G0:0006335 DNA replication-dependent nucleosome assembly
G0:0006982 response to lipid hydroperoxide
G0:0032516 positive regulation of phosphoprotein phosphatase activity
G0:0032510 endosome to lysosome transport via multivesicular body sorting pathway
G0:0033364 mast cell secretory granule organization
G0:0010042 response to manganese ion

GO:0002378 immunoglobulin biosynthesis
GO:0018401 peptidyl-proline hydroxylation to 4-hydroxy-L-proline
GO:0030578 PML body organization and biogenesis
GO:0046022 positive regulation of transcription from RNA polymerase II promoter, mi
GO:0006788 heme oxidation
GO:0014806 smooth muscle hyperplasia
GO:0010389 regulation of G2/M transition of mitotic cell cycle
GO:0033088 negative regulation of immature T cell proliferation in the thymus
GO:0051586 positive regulation of dopamine uptake
GO:0032417 positive regulation of sodium:hydrogen antiporter activity
GO:0045213 neurotransmitter receptor metabolism
GO:0009051 pentose-phosphate shunt, oxidative branch
GO:0019322 pentose biosynthesis
GO:0007538 primary sex determination
GO:0042986 positive regulation of amyloid precursor protein biosynthesis
GO:0034435 cholesterol esterification
GO:0000022 mitotic spindle elongation
GO:0006421 asparaginyl-tRNA aminoacylation
GO:0048745 smooth muscle development
GO:0022617 extracellular matrix disassembly
GO:0042473 outer ear morphogenesis
GO:0032288 myelin formation
GO:0033280 response to vitamin D
GO:0017183 peptidyl-diphthamide biosynthesis from peptidyl-histidine
GO:0046826 negative regulation of protein export from nucleus
GO:0043000 Golgi to plasma membrane CFTR protein transport
GO:0000089 mitotic metaphase
GO:0006370 mRNA capping
GO:0055098 response to low density lipoprotein stimulus
GO:0060166 olfactory pit development
GO:0009313 oligosaccharide catabolism
GO:0042511 positive regulation of tyrosine phosphorylation of Stat1 protein
GO:0060272 embryonic skeletal joint morphogenesis
GO:0006210 thymine catabolism
GO:0006212 uracil catabolism
GO:0021542 dentate gyrus development
GO:0006627 mitochondrial protein processing
GO:0006670 sphingosine metabolism
GO:0046655 folic acid metabolism
GO:0007518 myoblast cell fate determination
GO:0017055 negative regulation of transcriptional preinitiation complex formation
GO:0009082 branched chain family amino acid biosynthesis
GO:0033152 immunoglobulin V(D)J recombination
GO:0001778 plasma membrane repair
GO:0007097 nuclear migration
GO:0048843 negative regulation of axon extension involved in axon guidance
GO:0050711 negative regulation of interleukin-1 secretion
GO:0001550 ovarian cumulus expansion
GO:0006499 N-terminal protein myristoylation
GO:0050434 positive regulation of viral transcription
GO:0045082 positive regulation of interleukin-10 biosynthesis
GO:0045415 negative regulation of interleukin-8 biosynthesis

G0:0001823 mesonephros development
G0:0006552 leucine catabolism
G0:0006408 snRNA export from nucleus
G0:0002066 columnar/cuboidal epithelial cell development
G0:0035090 maintenance of apical/basal cell polarity
G0:0006597 spermine biosynthesis
G0:0051781 positive regulation of cell division
G0:0045332 phospholipid translocation
G0:0045541 negative regulation of cholesterol biosynthesis
G0:0060088 auditory receptor cell stereocilium organization
G0:0002925 positive regulation of humoral immune response mediated by circulating i
G0:0006965 positive regulation of biosynthesis of antibacterial peptides active ag
G0:0032740 positive regulation of interleukin-17 production
G0:0000103 sulfate assimilation
G0:0001543 ovarian follicle rupture
G0:0001999 renal response to blood flow during renin-angiotensin regulation of bloc
G0:0002018 renin-angiotensin regulation of aldosterone production
G0:0042756 drinking behavior
G0:0051387 negative regulation of nerve growth factor receptor signaling pathway
G0:0003078 regulation of natriuresis
G0:0033864 positive regulation of NAD(P)H oxidase activity
G0:0009597 detection of virus
G0:0046543 development of secondary female sexual characteristics
G0:0046544 development of secondary male sexual characteristics
G0:0060397 JAK-STAT cascade involved in growth hormone signaling pathway
G0:0007288 sperm axoneme assembly
G0:0010512 negative regulation of phosphatidylinositol biosynthetic process
G0:0001661 conditioned taste aversion
G0:0006999 nuclear pore organization and biogenesis
G0:0016080 synaptic vesicle targeting
G0:0032792 negative regulation of CREB transcription factor activity
G0:0022027 interkinetic nuclear migration
G0:0030953 astral microtubule organization and biogenesis
G0:0030220 platelet formation
G0:0031296 B cell costimulation
G0:0006991 response to sterol depletion
G0:0006168 adenine salvage
G0:0051300 spindle pole body organization and biogenesis
G0:0001781 neutrophil apoptosis
G0:0002384 hepatic immune response
G0:0070102 interleukin-6-mediated signaling pathway
G0:0045198 establishment of epithelial cell polarity
G0:0050862 positive regulation of T cell receptor signaling pathway
G0:0019695 choline metabolism
G0:0033615 mitochondrial proton-transporting ATP synthase complex assembly
G0:0045899 positive regulation of transcriptional preinitiation complex formation
G0:0002003 angiotensin maturation
G0:0048550 negative regulation of pinocytosis
G0:0034644 cellular response to UV
G0:0007206 metabotropic glutamate receptor, phospholipase C activating pathway
G0:0051725 protein amino acid de-ADP-ribosylation
G0:0032237 activation of store-operated calcium channel activity

G0:0043490 malate-aspartate shuttle
G0:0021990 neural plate formation
G0:0046952 ketone body catabolism
G0:0019858 cytosine metabolism
G0:0007064 mitotic sister chromatid cohesion
G0:0007403 glial cell fate determination
G0:0009609 response to symbiotic bacterium
G0:0048170 positive regulation of long-term neuronal synaptic plasticity
G0:0006011 UDP-glucose metabolism
G0:0032344 regulation of aldosterone metabolism
G0:0006659 phosphatidylserine biosynthesis
G0:0051409 response to nitrosative stress
G0:0050955 thermoception
G0:0034392 negative regulation of smooth muscle cell apoptosis
G0:0060027 convergent extension involved in gastrulation
G0:0006542 glutamine biosynthesis
G0:0006925 inflammatory cell apoptosis
G0:0045019 negative regulation of nitric oxide biosynthesis
G0:0045908 negative regulation of vasodilation
G0:0002542 Factor XII activation
G0:0007597 blood coagulation, intrinsic pathway
G0:0019509 methionine salvage
G0:0046337 phosphatidylethanolamine metabolism
G0:0030264 nuclear fragmentation
G0:0046007 negative regulation of activated T cell proliferation
G0:0006431 methionyl-tRNA aminoacylation
G0:0042404 thyroid hormone catabolism
G0:0015993 molecular hydrogen transport
G0:0048563 post-embryonic organ morphogenesis
G0:0030505 inorganic diphosphate transport
G0:0050427 3'-phosphoadenosine 5'-phosphosulfate metabolism
G0:0007066 female meiosis sister chromatid cohesion
G0:0009258 10-formyltetrahydrofolate catabolism
G0:0006529 asparagine biosynthesis
G0:0030300 regulation of cholesterol absorption
G0:0032099 negative regulation of appetite
G0:0002663 positive regulation of B cell tolerance induction
G0:0002666 positive regulation of T cell tolerance induction
G0:0051138 positive regulation of NK T cell differentiation
G0:0001574 ganglioside biosynthesis
G0:0046967 cytosol to ER transport
G0:0048227 plasma membrane to endosome transport
G0:0051899 membrane depolarization
G0:0048477 oogenesis
G0:0030330 DNA damage response, signal transduction by p53 class mediator
G0:0001541 ovarian follicle development
G0:0006414 translational elongation
G0:0009306 protein secretion
G0:0006605 protein targeting
G0:0015074 DNA integration
G0:0001756 somitogenesis
G0:0045089 positive regulation of innate immune response

G0:0021954 central nervous system neuron development
G0:0045165 cell fate commitment
G0:0045860 positive regulation of protein kinase activity
G0:0031016 pancreas development
G0:0030195 negative regulation of blood coagulation
G0:0045665 negative regulation of neuron differentiation
G0:0006071 glycerol metabolism
G0:0033077 T cell differentiation in the thymus
G0:0030500 regulation of bone mineralization
G0:0009072 aromatic amino acid family metabolism
G0:0045834 positive regulation of lipid metabolism
G0:0042327 positive regulation of phosphorylation
G0:0006800 oxygen and reactive oxygen species metabolism
G0:0006913 nucleocytoplasmic transport
G0:0001708 cell fate specification
G0:0006520 amino acid metabolism
G0:0007207 muscarinic acetylcholine receptor, phospholipase C activating pathway
G0:0006663 platelet activating factor biosynthesis
G0:0006701 progesterone biosynthesis
G0:0019276 UDP-N-acetylgalactosamine metabolism
G0:0043267 negative regulation of potassium ion transport
G0:0006702 androgen biosynthesis
G0:0031659 G1/S-specific positive regulation of cyclin-dependent protein kinase act
G0:0070141 response to UV-A
G0:0045879 negative regulation of smoothened signaling pathway
G0:0015732 prostaglandin transport
G0:0006167 AMP biosynthesis
G0:0031000 response to caffeine
G0:0031642 negative regulation of myelination
G0:0010107 potassium ion import
G0:0051496 positive regulation of stress fiber formation
G0:0042668 auditory receptor cell fate determination
G0:0046813 virion attachment, binding of host cell surface receptor
G0:0008054 cyclin catabolism
G0:0045721 negative regulation of gluconeogenesis
G0:0051156 glucose 6-phosphate metabolism
G0:0035308 negative regulation of protein amino acid dephosphorylation
G0:0032515 negative regulation of phosphoprotein phosphatase activity
G0:0051088 PMA-inducible membrane protein ectodomain proteolysis
G0:0033630 positive regulation of cell adhesion mediated by integrin
G0:0019987 negative regulation of anti-apoptosis
G0:0030573 bile acid catabolism
G0:0030540 female genitalia development
G0:0006271 DNA strand elongation
G0:0042167 heme catabolism
G0:0048149 behavioral response to ethanol
G0:0051927 negative regulation of calcium ion transport via voltage gated calcium c
G0:0034776 response to histamine
G0:0060080 regulation of inhibitory postsynaptic membrane potential
G0:0034653 retinoic acid catabolic process
G0:0008582 regulation of synaptic growth at neuromuscular junction
G0:0021569 rhombomere 3 development

G0:0021612 facial nerve structural organization
G0:0035284 brain segmentation
G0:0033632 regulation of cell-cell adhesion mediated by integrin
G0:0006564 L-serine biosynthesis
G0:0048485 sympathetic nervous system development
G0:0015760 glucose-6-phosphate transport
G0:0015015 heparan sulfate proteoglycan biosynthesis, enzymatic modification
G0:0007095 mitotic G2 checkpoint
G0:0050872 white fat cell differentiation
G0:0033993 response to lipid
G0:0006222 UMP biosynthesis
G0:0030916 otic vesicle formation
G0:0034505 tooth mineralization
G0:0006654 phosphatidic acid biosynthesis
G0:0002328 pro-B cell differentiation
G0:0060337 type I interferon-mediated signaling pathway
G0:0006591 ornithine metabolism
G0:0048478 replication fork protection
G0:0042536 negative regulation of tumor necrosis factor-alpha biosynthesis
G0:0015746 citrate transport
G0:0006295 nucleotide-excision repair, DNA incision, 3'-to lesion
G0:0006296 nucleotide-excision repair, DNA incision, 5'-to lesion
G0:0010834 telomere maintenance via telomere shortening
G0:0021615 glossopharyngeal nerve morphogenesis
G0:0046621 negative regulation of organ size
G0:0007418 ventral midline development
G0:0001675 acrosome formation
G0:0002227 innate immune response in mucosa
G0:0032874 positive regulation of stress-activated MAPK cascade
G0:0002035 brain renin-angiotensin system
G0:0046487 glyoxylate metabolism
G0:0043558 regulation of translation initiation in response to stress
G0:0042789 mRNA transcription from RNA polymerase II promoter
G0:0032091 negative regulation of protein binding
G0:0035092 sperm chromatin condensation
G0:0002636 positive regulation of germinal center formation
G0:0006424 glutamyl-tRNA aminoacylation
G0:0000083 G1/S-specific transcription in mitotic cell cycle
G0:0046100 hypoxanthine metabolism
G0:0007100 mitotic centrosome separation
G0:0002548 monocyte chemotaxis
G0:0045079 negative regulation of chemokine biosynthesis
G0:0051024 positive regulation of immunoglobulin secretion
G0:0032494 response to peptidoglycan
G0:0045715 negative regulation of low-density lipoprotein receptor biosynthesis
G0:0032780 negative regulation of ATPase activity
G0:0009301 snRNA transcription
G0:0035315 hair cell differentiation
G0:0006551 leucine metabolism
G0:0018076 N-terminal peptidyl-lysine acetylation
G0:0032236 positive regulation of calcium ion transport via store-operated calcium
G0:0032959 inositol trisphosphate biosynthetic process

G0:0046653 tetrahydrofolate metabolism
G0:0015810 aspartate transport
G0:0001561 fatty acid alpha-oxidation
G0:0019805 quinolinate biosynthesis
G0:0021988 olfactory lobe development
G0:0051938 L-glutamate import
G0:0006837 serotonin transport
G0:0015871 choline transport
G0:0045007 depurination
G0:0006346 methylation-dependent chromatin silencing
G0:0015816 glycine transport
G0:0002862 negative regulation of inflammatory response to antigenic stimulus
G0:0019896 axon transport of mitochondrion
G0:0006189 'de novo' IMP biosynthesis
G0:0006623 protein targeting to vacuole
G0:0032855 positive regulation of Rac GTPase activity
G0:0002829 negative regulation of T-helper 2 type immune response
G0:0002903 negative regulation of B cell apoptosis
G0:0015860 purine nucleoside transport
G0:0035121 tail morphogenesis
G0:0030157 pancreatic juice secretion
G0:0033143 regulation of steroid hormone receptor signaling pathway
G0:0014911 positive regulation of smooth muscle cell migration
G0:0051877 pigment granule aggregation in cell center
G0:0008615 pyridoxine biosynthesis
G0:0042816 vitamin B6 metabolism
G0:0033603 positive regulation of dopamine secretion
G0:0006924 activated T cell apoptosis
G0:0045060 negative thymic T cell selection
G0:0014912 negative regulation of smooth muscle cell migration
G0:0045907 positive regulation of vasoconstriction
G0:0048554 positive regulation of metalloenzyme activity
G0:0045604 regulation of epidermal cell differentiation
G0:0043569 negative regulation of insulin-like growth factor receptor signaling pat
G0:0031648 protein destabilization
G0:0019852 L-ascorbic acid metabolism
G0:0018348 protein amino acid geranylgeranylation
G0:0030730 sequestering of triacylglycerol
G0:0032042 mitochondrial DNA metabolism
G0:0006853 carnitine shuttle
G0:0032509 endosome transport via multivesicular body sorting pathway
G0:0045785 positive regulation of cell adhesion
G0:0010742 foam cell differentiation
G0:0000723 telomere maintenance
G0:0048167 regulation of synaptic plasticity
G0:0043583 ear development
G0:0030217 T cell differentiation
G0:0006383 transcription from RNA polymerase III promoter
G0:0019079 viral genome replication
G0:0050769 positive regulation of neurogenesis
G0:0055072 iron ion homeostasis
G0:0019216 regulation of lipid metabolism

G0:0042594 response to starvation
G0:0006809 nitric oxide biosynthesis
G0:0043407 negative regulation of MAPK activity
G0:0007266 Rho protein signal transduction
G0:0032331 negative regulation of chondrocyte differentiation
G0:0035117 embryonic arm morphogenesis
G0:0050651 dermatan sulfate proteoglycan biosynthesis
G0:0014826 vein smooth muscle contraction
G0:0043497 regulation of protein heterodimerization
G0:0001867 complement activation, lectin pathway
G0:0043032 positive regulation of macrophage activation
G0:0032570 response to progesterone stimulus
G0:0032909 regulation of transforming growth factor-beta2 production
G0:0050901 leukocyte tethering or rolling
G0:0009404 toxin metabolism
G0:0016322 neuron remodeling
G0:0006926 virus-infected cell apoptosis
G0:0009134 nucleoside diphosphate catabolism
G0:0007525 somatic muscle development
G0:0043114 regulation of vascular permeability
G0:0031536 positive regulation of exit from mitosis
G0:0043278 response to morphine
G0:0045217 intercellular junction maintenance
G0:0002246 healing during inflammatory response
G0:0043619 regulation of transcription from RNA polymerase II promoter in response
G0:0006651 diacylglycerol biosynthesis
G0:0031119 tRNA pseudouridine synthesis
G0:0048387 negative regulation of retinoic acid receptor signaling pathway
G0:0022011 myelination in the peripheral nervous system
G0:0048715 negative regulation of oligodendrocyte differentiation
G0:0048853 forebrain morphogenesis
G0:0006002 fructose 6-phosphate metabolism
G0:0007386 compartment specification
G0:0000288 mRNA catabolism, deadenylation-dependent decay
G0:0055091 phospholipid homeostasis
G0:0060155 platelet dense granule organization
G0:0045022 early endosome to late endosome transport
G0:0006102 isocitrate metabolism
G0:0045600 positive regulation of fat cell differentiation
G0:0006269 DNA replication, synthesis of RNA primer
G0:0006207 'de novo' pyrimidine base biosynthesis
G0:0021527 spinal cord association neuron differentiation
G0:0060333 interferon-gamma-mediated signaling pathway
G0:0007042 lysosomal lumen acidification
G0:0051045 negative regulation of membrane protein ectodomain proteolysis
G0:0008588 release of cytoplasmic sequestered NF-kappaB
G0:0045409 negative regulation of interleukin-6 biosynthesis
G0:0051310 metaphase plate congression
G0:0019730 antimicrobial humoral response
G0:0048251 elastic fiber assembly
G0:0051974 negative regulation of telomerase activity
G0:0050665 hydrogen peroxide biosynthesis

G0:0006290 pyrimidine dimer repair
G0:0032689 negative regulation of interferon-gamma production
G0:0032735 positive regulation of interleukin-12 production
G0:0007199 G-protein signaling, coupled to cGMP nucleotide second messenger
G0:0030432 peristalsis
G0:0006972 hyperosmotic response
G0:0045356 positive regulation of interferon-alpha biosynthesis
G0:0045359 positive regulation of interferon-beta biosynthesis
G0:0030970 retrograde protein transport, ER to cytosol
G0:0001779 natural killer cell differentiation
G0:0045579 positive regulation of B cell differentiation
G0:0045647 negative regulation of erythrocyte differentiation
G0:0048541 Peyer's patch development
G0:0010544 negative regulation of platelet activation
G0:0051898 negative regulation of protein kinase B signaling cascade
G0:0032000 positive regulation of fatty acid beta-oxidation
G0:0018206 peptidyl-methionine modification
G0:0006166 purine ribonucleoside salvage
G0:0046689 response to mercury ion
G0:0032020 ISG15-protein conjugation
G0:0035025 positive regulation of Rho protein signal transduction
G0:0008612 hypusine biosynthesis from peptidyl-lysine
G0:0032376 positive regulation of cholesterol transport
G0:0007253 cytoplasmic sequestering of NF-kappaB
G0:0015824 proline transport
G0:0051702 interaction with symbiont
G0:0030259 lipid glycosylation
G0:0006432 phenylalanyl-tRNA aminoacylation
G0:0035022 positive regulation of Rac protein signal transduction
G0:0010039 response to iron ion
G0:0006434 seryl-tRNA aminoacylation
G0:0060296 regulation of cilium beat frequency involved in ciliary motility
G0:0017121 phospholipid scrambling
G0:0006927 transformed cell apoptosis
G0:0060056 mammary gland involution
G0:0051919 positive regulation of fibrinolysis
G0:0034375 high-density lipoprotein particle remodeling
G0:0045578 negative regulation of B cell differentiation
G0:0006358 regulation of global transcription from RNA polymerase II promoter
G0:0008053 mitochondrial fusion
G0:0035162 embryonic hemopoiesis
G0:0060044 negative regulation of cardiac muscle cell proliferation
G0:0045639 positive regulation of myeloid cell differentiation
G0:0045638 negative regulation of myeloid cell differentiation
G0:0006641 triacylglycerol metabolism
G0:0018108 peptidyl-tyrosine phosphorylation
G0:0042692 muscle cell differentiation
G0:0007163 establishment and/or maintenance of cell polarity
G0:0043392 negative regulation of DNA binding
G0:0007286 spermatid development
G0:0009062 fatty acid catabolism
G0:0016202 regulation of striated muscle development

G0:0030282 bone mineralization
G0:0006952 defense response
G0:0006261 DNA-dependent DNA replication
G0:0030146 diuresis
G0:0015701 bicarbonate transport
G0:0040036 regulation of fibroblast growth factor receptor signaling pathway
G0:0002544 chronic inflammatory response
G0:0051918 negative regulation of fibrinolysis
G0:0022614 membrane to membrane docking
G0:0032370 positive regulation of lipid transport
G0:0045741 positive regulation of epidermal growth factor receptor activity
G0:0032148 activation of protein kinase B
G0:0006977 DNA damage response, signal transduction by p53 class mediator resulting
G0:0042117 monocyte activation
G0:0006699 bile acid biosynthesis
G0:0002089 lens morphogenesis (sensu Vertebrata)
G0:0021520 spinal cord motor neuron cell fate specification
G0:0009268 response to pH
G0:0045187 regulation of circadian sleep/wake cycle, sleep
G0:0000185 activation of MAPKKK activity
G0:0048103 somatic stem cell division
G0:0042416 dopamine biosynthesis
G0:0060134 prepulse inhibition
G0:0046676 negative regulation of insulin secretion
G0:0042769 DNA damage response, detection of DNA damage
G0:0045616 regulation of keratinocyte differentiation
G0:0030819 positive regulation of cAMP biosynthesis
G0:0032367 intracellular cholesterol transport
G0:0009649 entrainment of circadian clock
G0:0045713 low-density lipoprotein receptor biosynthesis
G0:0032364 oxygen homeostasis
G0:0007341 penetration of zona pellucida
G0:0046521 sphingoid catabolism
G0:0051103 DNA ligation during DNA repair
G0:0055015 ventricular cardiac muscle cell development
G0:0006538 glutamate catabolism
G0:0045064 T-helper 2 cell differentiation
G0:0009200 deoxyribonucleoside triphosphate metabolism
G0:0046329 negative regulation of JNK cascade
G0:0002262 myeloid cell homeostasis
G0:0019430 removal of superoxide radicals
G0:0042535 positive regulation of tumor necrosis factor-alpha biosynthesis
G0:0045410 positive regulation of interleukin-6 biosynthesis
G0:0045940 positive regulation of steroid metabolism
G0:0046622 positive regulation of organ size
G0:0047497 mitochondrion transport along microtubule
G0:0048305 immunoglobulin secretion
G0:0060037 pharyngeal system development
G0:0032722 positive regulation of chemokine production
G0:0001954 positive regulation of cell-matrix adhesion
G0:0006882 zinc ion homeostasis
G0:0046668 regulation of retinal programmed cell death

G0:0045008 depyrimidination
G0:0030033 microvillus biogenesis
G0:0050748 negative regulation of lipoprotein metabolism
G0:0048261 negative regulation of receptor mediated endocytosis
G0:0019642 anaerobic glycolysis
G0:0051006 positive regulation of lipoprotein lipase activity
G0:0018101 peptidyl-citrulline biosynthesis from peptidyl-arginine
G0:0040020 regulation of meiosis
G0:0032801 receptor catabolic process
G0:0046697 decidualization
G0:0002726 positive regulation of T cell cytokine production
G0:0032743 positive regulation of interleukin-2 production
G0:0034447 very-low-density lipoprotein particle clearance
G0:0006824 cobalt ion transport
G0:0002634 regulation of germinal center formation
G0:0043568 positive regulation of insulin-like growth factor receptor signaling pat
G0:0035058 sensory cilium biogenesis
G0:0032465 regulation of cytokinesis
G0:0051584 regulation of dopamine uptake
G0:0019067 viral assembly, maturation, egress, and release
G0:0009437 carnitine metabolism
G0:0030643 phosphate ion homeostasis
G0:0045599 negative regulation of fat cell differentiation
G0:0048268 clathrin cage assembly
G0:0051005 negative regulation of lipoprotein lipase activity
G0:0030111 regulation of Wnt receptor signaling pathway
G0:0009060 aerobic respiration
G0:0016331 morphogenesis of embryonic epithelium
G0:0031647 regulation of protein stability
G0:0048568 embryonic organ development
G0:0030595 leukocyte chemotaxis
G0:0042446 hormone biosynthesis
G0:0046321 positive regulation of fatty acid oxidation
G0:0050873 brown fat cell differentiation
G0:0015721 bile acid transport
G0:0050930 induction of positive chemotaxis
G0:0043496 regulation of protein homodimerization
G0:0042640 anagen
G0:0017144 drug metabolism
G0:0043353 enucleate erythrocyte differentiation
G0:0045132 meiotic chromosome segregation
G0:0043266 regulation of potassium ion transport
G0:0033631 cell-cell adhesion mediated by integrin
G0:0048535 lymph node development
G0:0046885 regulation of hormone biosynthesis
G0:0043584 nose development
G0:0060123 regulation of growth hormone secretion
G0:0048148 behavioral response to cocaine
G0:0007213 acetylcholine receptor signaling, muscarinic pathway
G0:0007216 metabotropic glutamate receptor signaling pathway
G0:0019240 citrulline biosynthesis
G0:0014829 vascular smooth muscle contraction

G0:0048247 lymphocyte chemotaxis
G0:0042745 circadian sleep/wake cycle
G0:0042074 cell migration involved in gastrulation
G0:0009296 flagellum biogenesis
G0:0055003 cardiac myofibril assembly
G0:0051123 transcriptional preinitiation complex formation
G0:0006621 protein retention in ER
G0:0033081 regulation of T cell differentiation in the thymus
G0:0060052 neurofilament cytoskeleton organization
G0:0002224 toll-like receptor signaling pathway
G0:0009651 response to salt stress
G0:0042448 progesterone metabolism
G0:0045737 positive regulation of cyclin-dependent protein kinase activity
G0:0015879 carnitine transport
G0:0046836 glycolipid transport
G0:0021895 cerebral cortex neuron differentiation
G0:0002446 neutrophil mediated immunity
G0:0045948 positive regulation of translational initiation
G0:0006200 ATP catabolism
G0:0042791 5S class rRNA transcription
G0:0042797 tRNA transcription from RNA polymerase III promoter
G0:0006283 transcription-coupled nucleotide-excision repair
G0:0033683 nucleotide-excision repair, DNA incision
G0:0046902 regulation of mitochondrial membrane permeability
G0:0016579 protein deubiquitination
G0:0006337 nucleosome disassembly
G0:0060271 cilium morphogenesis
G0:0046426 negative regulation of JAK-STAT cascade
G0:0060079 regulation of excitatory postsynaptic membrane potential
G0:0045039 protein import into mitochondrial inner membrane
G0:0043011 myeloid dendritic cell differentiation
G0:0060389 pathway-restricted SMAD protein phosphorylation
G0:0006729 tetrahydrobiopterin biosynthesis
G0:0042110 T cell activation
G0:0051246 regulation of protein metabolism
G0:0007005 mitochondrion organization and biogenesis
G0:0001932 regulation of protein amino acid phosphorylation
G0:0043193 positive regulation of gene-specific transcription
G0:0031424 keratinization
G0:0008629 induction of apoptosis by intracellular signals
G0:0019228 generation of action potential
G0:0006012 galactose metabolism
G0:0030147 natriuresis
G0:0010460 positive regulation of heart rate
G0:0048340 paraxial mesoderm morphogenesis
G0:0008595 determination of anterior/posterior axis, embryo
G0:0045648 positive regulation of erythrocyte differentiation
G0:0031640 killing of cells of another organism
G0:0014037 Schwann cell differentiation
G0:0021984 adenohypophysis development
G0:0005980 glycogen catabolism
G0:0043303 mast cell degranulation

G0:0030224 monocyte differentiation
G0:0010553 negative regulation of specific transcription from RNA polymerase II promoter
G0:0050910 detection of mechanical stimulus during sensory perception of sound
G0:0008593 regulation of Notch signaling pathway
G0:0010575 positive regulation of vascular endothelial growth factor production
G0:0002052 positive regulation of neuroblast proliferation
G0:0009103 lipopolysaccharide biosynthesis
G0:0032729 positive regulation of interferon-gamma production
G0:0000380 alternative nuclear mRNA splicing, via spliceosome
G0:0008634 negative regulation of survival gene product activity
G0:0022409 positive regulation of cell-cell adhesion
G0:0008354 germ cell migration
G0:0048169 regulation of long-term neuronal synaptic plasticity
G0:0032760 positive regulation of tumor necrosis factor production
G0:0042104 positive regulation of activated T cell proliferation
G0:0031295 T cell costimulation
G0:0055012 ventricular cardiac muscle cell differentiation
G0:0002690 positive regulation of leukocyte chemotaxis
G0:0008635 caspase activation via cytochrome c
G0:0006353 transcription termination
G0:0000052 citrulline metabolism
G0:0045980 negative regulation of nucleotide metabolism
G0:0021952 central nervous system projection neuron axonogenesis
G0:0051775 response to redox state
G0:0007635 chemosensory behavior
G0:0035313 wound healing, spreading of epidermal cells
G0:0021940 positive regulation of granule cell precursor proliferation
G0:0045821 positive regulation of glycolysis
G0:0046461 neutral lipid catabolism
G0:0042391 regulation of membrane potential
G0:0001819 positive regulation of cytokine production
G0:0006359 regulation of transcription from RNA polymerase III promoter
G0:0048016 inositol phosphate-mediated signaling
G0:0043537 negative regulation of blood vessel endothelial cell migration
G0:0007217 tachykinin signaling pathway
G0:0001573 ganglioside metabolism
G0:0006661 phosphatidylinositol biosynthesis
G0:0000038 very-long-chain fatty acid metabolism
G0:0042447 hormone catabolism
G0:0032401 establishment of melanosome localization
G0:0006906 vesicle fusion
G0:0006043 glucosamine catabolism
G0:0042573 retinoic acid metabolism
G0:0019883 antigen processing and presentation of endogenous antigen
G0:0006282 regulation of DNA repair
G0:0006596 polyamine biosynthesis
G0:0021680 cerebellar Purkinje cell layer development
G0:0032205 negative regulation of telomere maintenance
G0:0015936 coenzyme A metabolism
G0:0031663 lipopolysaccharide-mediated signaling pathway
G0:0048678 response to axon injury
G0:0046339 diacylglycerol metabolism

G0:0001542 ovulation (sensu Mammalia)
G0:0014910 regulation of smooth muscle cell migration
G0:0045197 establishment and/or maintenance of epithelial cell polarity
G0:0045109 intermediate filament organization
G0:0050884 regulation of posture
G0:0050690 regulation of antiviral response by virus
G0:0010574 regulation of vascular endothelial growth factor production
G0:0006817 phosphate transport
G0:0001710 mesodermal cell fate commitment
G0:0051354 negative regulation of oxidoreductase activity
G0:0021516 dorsal spinal cord development
G0:0009650 UV protection
G0:0006527 arginine catabolism
G0:0042135 neurotransmitter catabolism
G0:0014896 muscle hypertrophy
G0:0032770 positive regulation of monooxygenase activity
G0:0050771 negative regulation of axonogenesis
G0:0006465 signal peptide processing
G0:0046325 negative regulation of glucose import
G0:0008343 adult feeding behavior
G0:0002009 morphogenesis of an epithelium
G0:0030100 regulation of endocytosis
G0:0050808 synapse organization and biogenesis
G0:0050727 regulation of inflammatory response
G0:0030072 peptide hormone secretion
G0:0043280 positive regulation of caspase activity
G0:0006744 ubiquinone biosynthesis
G0:0002418 immune response to tumor cell
G0:0006266 DNA ligation
G0:0001578 microtubule bundle formation
G0:0032781 positive regulation of ATPase activity
G0:0030174 regulation of DNA replication initiation
G0:0051085 chaperone cofactor-dependent protein folding
G0:0014909 smooth muscle cell migration
G0:0043088 regulation of Cdc42 GTPase activity
G0:0031290 retinal ganglion cell axon guidance
G0:0051298 centrosome duplication
G0:0045123 cellular extravasation
G0:0050829 defense response to Gram-negative bacterium
G0:0006013 mannose metabolism
G0:0043616 keratinocyte proliferation
G0:0050927 positive regulation of positive chemotaxis
G0:0006360 transcription from RNA polymerase I promoter
G0:0008306 associative learning
G0:0016558 protein import into peroxisome matrix
G0:0032582 negative regulation of gene-specific transcription
G0:0048821 erythrocyte development
G0:0048854 brain morphogenesis
G0:0001510 RNA methylation
G0:0048662 negative regulation of smooth muscle cell proliferation
G0:0048566 embryonic gut development
G0:0031638 zymogen activation

G0:0009086 methionine biosynthesis
G0:0002021 response to dietary excess
G0:0002053 positive regulation of mesenchymal cell proliferation
G0:0009396 folic acid and derivative biosynthesis
G0:0006606 protein import into nucleus
G0:0042445 hormone metabolism
G0:0001763 morphogenesis of a branching structure
G0:0007088 regulation of mitosis
G0:0032259 methylation
G0:0007599 hemostasis
G0:0048741 skeletal muscle fiber development
G0:0034101 erythrocyte homeostasis
G0:0051271 negative regulation of cell motility
G0:0006354 RNA elongation
G0:0007017 microtubule-based process
G0:0050766 positive regulation of phagocytosis
G0:0007342 fusion of sperm to egg plasma membrane
G0:0007622 rhythmic behavior
G0:0043525 positive regulation of neuron apoptosis
G0:0045124 regulation of bone resorption
G0:0033700 phospholipid efflux
G0:0048205 COPI coating of Golgi vesicle
G0:0032964 collagen biosynthetic process
G0:0007090 regulation of S phase of mitotic cell cycle
G0:0043149 stress fiber formation
G0:0032350 regulation of hormone metabolism
G0:0010469 regulation of receptor activity
G0:0051291 protein heterooligomerization
G0:0015695 organic cation transport
G0:0007032 endosome organization and biogenesis
G0:0050650 chondroitin sulfate proteoglycan biosynthesis
G0:0015012 heparan sulfate proteoglycan biosynthesis
G0:0007184 SMAD protein nuclear translocation
G0:0034599 cellular response to oxidative stress
G0:0048701 embryonic cranial skeleton morphogenesis
G0:0014902 myotube differentiation
G0:0050730 regulation of peptidyl-tyrosine phosphorylation
G0:0048839 inner ear development
G0:0008610 lipid biosynthesis
G0:0006812 cation transport
G0:0048589 developmental growth
G0:0006275 regulation of DNA replication
G0:0031333 negative regulation of protein complex assembly
G0:0043666 regulation of phosphoprotein phosphatase activity
G0:0045576 mast cell activation
G0:0030539 male genitalia development
G0:0030010 establishment of cell polarity
G0:0043484 regulation of RNA splicing
G0:0042375 quinone cofactor metabolism
G0:0035094 response to nicotine
G0:0008105 asymmetric protein localization
G0:0045598 regulation of fat cell differentiation

G0:0042992 negative regulation of transcription factor import into nucleus
G0:0043488 regulation of mRNA stability
G0:0015909 long-chain fatty acid transport
G0:0046889 positive regulation of lipid biosynthesis
G0:0045078 positive regulation of interferon-gamma biosynthesis
G0:0042147 retrograde transport, endosome to Golgi
G0:0014003 oligodendrocyte development
G0:0051220 cytoplasmic sequestering of protein
G0:0006110 regulation of glycolysis
G0:0001829 trophectodermal cell differentiation
G0:0009611 response to wounding
G0:0001934 positive regulation of protein amino acid phosphorylation
G0:0043631 RNA polyadenylation
G0:0032320 positive regulation of Ras GTPase activity
G0:0043535 regulation of blood vessel endothelial cell migration
G0:0045685 regulation of glial cell differentiation
G0:0007492 endoderm development
G0:0002026 cardiac inotropy
G0:0006555 methionine metabolism
G0:0051145 smooth muscle cell differentiation
G0:0035136 forelimb morphogenesis
G0:0050684 regulation of mRNA processing
G0:0008088 axon cargo transport
G0:0007140 male meiosis
G0:0030104 water homeostasis
G0:0021766 hippocampus development
G0:0050869 negative regulation of B cell activation
G0:0042269 regulation of natural killer cell mediated cytotoxicity
G0:0006941 striated muscle contraction
G0:0051272 positive regulation of cell motility
G0:0043087 regulation of GTPase activity
G0:0042325 regulation of phosphorylation
G0:0009948 anterior/posterior axis specification
G0:0050999 regulation of nitric-oxide synthase activity
G0:0045930 negative regulation of progression through mitotic cell cycle
G0:0060401 cytosolic calcium ion transport
G0:0007528 neuromuscular junction development
G0:0030318 melanocyte differentiation
G0:0006833 water transport
G0:0050702 interleukin-1 beta secretion
G0:0032488 Cdc42 protein signal transduction
G0:0006525 arginine metabolism
G0:0006544 glycine metabolism
G0:0042345 regulation of NF-kappaB import into nucleus
G0:0006182 cGMP biosynthesis
G0:0042308 negative regulation of protein import into nucleus
G0:0006637 acyl-CoA metabolism
G0:0006625 protein targeting to peroxisome
G0:0042596 fear response
G0:0030049 muscle filament sliding
G0:0031069 hair follicle morphogenesis
G0:0001825 blastocyst formation

G0:0006020 myo-inositol metabolism
G0:0046579 positive regulation of Ras protein signal transduction
G0:0050806 positive regulation of synaptic transmission
G0:0022904 respiratory electron transport chain
G0:0035108 limb morphogenesis
G0:0046068 cGMP metabolism
G0:0019827 stem cell maintenance
G0:0015872 dopamine transport
G0:0001892 embryonic placenta development
G0:0042307 positive regulation of protein import into nucleus
G0:0042462 eye photoreceptor cell development
G0:0033261 regulation of S phase
G0:0002062 chondrocyte differentiation
G0:0006970 response to osmotic stress
G0:0001836 release of cytochrome c from mitochondria
G0:0009247 glycolipid biosynthesis
G0:0006665 sphingolipid metabolism
G0:0048705 skeletal morphogenesis
G0:0006739 NADP metabolism
G0:0000272 polysaccharide catabolism
G0:0042551 neuron maturation
G0:0002027 cardiac chronotropy
G0:0030501 positive regulation of bone mineralization
G0:0000097 sulfur amino acid biosynthesis
G0:0031365 N-terminal protein amino acid modification
G0:0006783 heme biosynthesis
G0:0015711 organic anion transport
G0:0019724 B cell mediated immunity
G0:0009566 fertilization
G0:0007389 pattern specification
G0:0042035 regulation of cytokine biosynthesis
G0:0030384 phosphoinositide metabolism
G0:0045730 respiratory burst
G0:0007274 neuromuscular synaptic transmission
G0:0035137 hindlimb morphogenesis
G0:0015804 neutral amino acid transport
G0:0007214 gamma-aminobutyric acid signaling pathway
G0:0042058 regulation of epidermal growth factor receptor signaling pathway
G0:0007613 memory
G0:0042130 negative regulation of T cell proliferation
G0:0006536 glutamate metabolism
G0:0051353 positive regulation of oxidoreductase activity
G0:0045793 positive regulation of cell size
G0:0046887 positive regulation of hormone secretion
G0:0006693 prostaglandin metabolism
G0:0009220 pyrimidine ribonucleotide biosynthesis
G0:0007224 smoothed signaling pathway
G0:0002367 cytokine production during immune response
G0:0042116 macrophage activation
G0:0048010 vascular endothelial growth factor receptor signaling pathway
G0:0030030 cell projection organization and biogenesis
G0:0032147 activation of protein kinase activity

GO:0015718 monocarboxylic acid transport
GO:0042267 natural killer cell mediated cytotoxicity
GO:0015807 L-amino acid transport
GO:0006687 glycosphingolipid metabolism
GO:0007098 centrosome cycle
GO:0031396 regulation of protein ubiquitination
GO:0042417 dopamine metabolism
GO:0046824 positive regulation of nucleocytoplasmic transport
GO:0042133 neurotransmitter metabolism
GO:0045104 intermediate filament cytoskeleton organization and biogenesis
GO:0050715 positive regulation of cytokine secretion
GO:0045026 plasma membrane fusion
GO:0032956 regulation of actin cytoskeleton organization
GO:0030031 cell projection biogenesis
GO:0045596 negative regulation of cell differentiation
GO:0050921 positive regulation of chemotaxis
GO:0007193 G-protein signaling, adenylate cyclase inhibiting pathway
GO:0045778 positive regulation of ossification
GO:0007223 frizzled-2 signaling pathway
GO:0048562 embryonic organ morphogenesis
GO:0045814 negative regulation of gene expression, epigenetic
GO:0050672 negative regulation of lymphocyte proliferation
GO:0032319 regulation of Rho GTPase activity
GO:0051789 response to protein stimulus
GO:0008104 protein localization
GO:0009311 oligosaccharide metabolism
GO:0006892 post-Golgi vesicle-mediated transport
GO:0051495 positive regulation of cytoskeleton organization and biogenesis
GO:0051180 vitamin transport
GO:0045833 negative regulation of lipid metabolism
GO:0007632 visual behavior
GO:0031110 regulation of microtubule polymerization or depolymerization
GO:0002381 immunoglobulin production during immune response
GO:0019218 regulation of steroid metabolism
GO:0006473 protein amino acid acetylation
GO:0030239 myofibril assembly
GO:0006776 vitamin A metabolism
GO:0043393 regulation of protein binding
GO:0042531 positive regulation of tyrosine phosphorylation of STAT protein
GO:0001952 regulation of cell-matrix adhesion
GO:0007215 glutamate signaling pathway
GO:0006903 vesicle targeting
GO:0021675 nerve development
GO:0007031 peroxisome organization and biogenesis
GO:0006801 superoxide metabolism
GO:0045926 negative regulation of growth
GO:0051101 regulation of DNA binding
GO:0045216 intercellular junction assembly and maintenance
GO:0030148 sphingolipid biosynthesis
GO:0045471 response to ethanol
GO:0032640 tumor necrosis factor production
GO:0002821 positive regulation of adaptive immune response

G0:0007034 vacuolar transport
G0:0050868 negative regulation of T cell activation
G0:0046427 positive regulation of JAK-STAT cascade
G0:0050871 positive regulation of B cell activation
G0:0046324 regulation of glucose import
G0:0006221 pyrimidine nucleotide biosynthesis
G0:0050796 regulation of insulin secretion
G0:0070201 regulation of establishment of protein localization
G0:0016032 viral life cycle
G0:0048489 synaptic vesicle transport
G0:0048066 pigmentation during development
G0:0001841 neural tube formation
G0:0031960 response to corticosteroid stimulus
G0:0006518 peptide metabolism
G0:0030512 negative regulation of transforming growth factor beta receptor signaling
G0:0030166 proteoglycan biosynthesis
G0:0006790 sulfur metabolism
G0:0043507 positive regulation of JNK activity
G0:0006509 membrane protein ectodomain proteolysis
G0:0030835 negative regulation of actin filament depolymerization
G0:0009267 cellular response to starvation
G0:0042100 B cell proliferation
G0:0046323 glucose import
G0:0050714 positive regulation of protein secretion
G0:0048145 regulation of fibroblast proliferation
G0:0021953 central nervous system neuron differentiation
G0:0042310 vasoconstriction
G0:0048667 neuron morphogenesis during differentiation
G0:0042113 B cell activation
G0:0001776 leukocyte homeostasis
G0:0032635 interleukin-6 production
G0:0002429 immune response-activating cell surface receptor signaling pathway
G0:0014070 response to organic cyclic substance
G0:0043161 proteasomal ubiquitin-dependent protein catabolism
G0:0007187 G-protein signaling, coupled to cyclic nucleotide second messenger
G0:0032880 regulation of protein localization
G0:0006644 phospholipid metabolism
G0:0030182 neuron differentiation
G0:0006664 glycolipid metabolism
G0:0045088 regulation of innate immune response
G0:0048659 smooth muscle cell proliferation
G0:0051924 regulation of calcium ion transport
G0:0043506 regulation of JNK activity
G0:0019217 regulation of fatty acid metabolism
G0:0006040 amino sugar metabolism
G0:0001942 hair follicle development
G0:0021510 spinal cord development
G0:0007602 phototransduction
G0:0030193 regulation of blood coagulation
G0:0001656 metanephros development
G0:0042311 vasodilation
G0:0042633 hair cycle

G0:0007548 sex differentiation
G0:0046034 ATP metabolism
G0:0001935 endothelial cell proliferation
G0:0046209 nitric oxide metabolism
G0:0022407 regulation of cell-cell adhesion
G0:0032886 regulation of microtubule-based process
G0:0050770 regulation of axonogenesis
G0:0051048 negative regulation of secretion
G0:0007260 tyrosine phosphorylation of STAT protein
G0:0046425 regulation of JAK-STAT cascade
G0:0007270 nerve-nerve synaptic transmission
G0:0002377 immunoglobulin production
G0:0006505 GPI anchor metabolism
G0:0048663 neuron fate commitment
G0:0030162 regulation of proteolysis
G0:0002455 humoral immune response mediated by circulating immunoglobulin
G0:0032963 collagen metabolic process
G0:0006672 ceramide metabolism
G0:0006506 GPI anchor biosynthesis
G0:0007608 sensory perception of smell
G0:0009583 detection of light stimulus
G0:0009410 response to xenobiotic stimulus
G0:0007269 neurotransmitter secretion
G0:0021915 neural tube development
G0:0051493 regulation of cytoskeleton organization and biogenesis
G0:0009166 nucleotide catabolism
G0:0051091 positive regulation of transcription factor activity
G0:0042698 menstrual cycle
G0:0048514 blood vessel morphogenesis
G0:0046883 regulation of hormone secretion
G0:0055088 lipid homeostasis
G0:0008585 female gonad development
G0:0009117 nucleotide metabolism
G0:0001894 tissue homeostasis
G0:0043254 regulation of protein complex assembly
G0:0016126 sterol biosynthesis
G0:0050708 regulation of protein secretion
G0:0006997 nuclear organization and biogenesis
G0:0007346 regulation of progression through mitotic cell cycle
G0:0006690 icosanoid metabolism
G0:0045762 positive regulation of adenylate cyclase activity
G0:0045619 regulation of lymphocyte differentiation
G0:0007292 female gamete generation
G0:0050909 sensory perception of taste
G0:0032270 positive regulation of cellular protein metabolism
G0:0044236 organismal metabolism
G0:0010001 glial cell differentiation
G0:0048754 branching morphogenesis of a tube
G0:0050678 regulation of epithelial cell proliferation
G0:0045333 cellular respiration
G0:0050673 epithelial cell proliferation
G0:0043244 regulation of protein complex disassembly

GO:0009187 cyclic nucleotide metabolism
GO:0043408 regulation of MAPKKK cascade
GO:0009617 response to bacterium
GO:0051276 chromosome organization and biogenesis
GO:0009913 epidermal cell differentiation
GO:0009266 response to temperature stimulus
GO:0006325 establishment and/or maintenance of chromatin architecture
GO:0046903 secretion
GO:0040029 regulation of gene expression, epigenetic
GO:0042127 regulation of cell proliferation
GO:0017015 regulation of transforming growth factor beta receptor signaling pathway
GO:0006497 protein amino acid lipidation
GO:0051168 nuclear export
GO:0051402 neuron apoptosis
GO:0030278 regulation of ossification
GO:0007166 cell surface receptor linked signal transduction
GO:0048592 eye morphogenesis
GO:0006112 energy reserve metabolism
GO:0006308 DNA catabolism
GO:0007369 gastrulation
GO:0008064 regulation of actin polymerization and/or depolymerization
GO:0042158 lipoprotein biosynthesis
GO:0009582 detection of abiotic stimulus
GO:0042098 T cell proliferation
GO:0030832 regulation of actin filament length
GO:0035264 body growth
GO:0007281 germ cell development
GO:0006066 alcohol metabolism
GO:0050776 regulation of immune response
GO:0051047 positive regulation of secretion
GO:0032583 regulation of gene-specific transcription
GO:0001816 cytokine production
GO:0010038 response to metal ion
GO:0016064 immunoglobulin mediated immune response
GO:0043624 cellular protein complex disassembly
GO:0060173 limb development
GO:0051444 negative regulation of ubiquitin ligase activity
GO:0009063 amino acid catabolism
GO:0019933 cAMP-mediated signaling
GO:0040007 growth
GO:0051090 regulation of transcription factor activity
GO:0048730 epidermis morphogenesis
GO:0050804 regulation of synaptic transmission
GO:0045637 regulation of myeloid cell differentiation
GO:0030323 respiratory tube development
GO:0048812 neurite morphogenesis
GO:0018193 peptidyl-amino acid modification
GO:0052547 regulation of peptidase activity
GO:0010035 response to inorganic substance
GO:0002253 activation of immune response
GO:0008154 actin polymerization and/or depolymerization
GO:0043010 eye development (sensu Vertebrata)

G0:0008406 gonad development
G0:0051351 positive regulation of ligase activity
G0:0007398 ectoderm development
G0:0031401 positive regulation of protein modification
G0:0009309 amine biosynthesis
G0:0005976 polysaccharide metabolism
G0:0060047 heart contraction
G0:0046651 lymphocyte proliferation
G0:0015980 energy derivation by oxidation of organic compounds
G0:0051480 cytosolic calcium ion homeostasis
G0:0042089 cytokine biosynthesis
G0:0042107 cytokine metabolism
G0:0051223 regulation of protein transport
G0:0001775 cell activation
G0:0043406 positive regulation of MAPK activity
G0:0009165 nucleotide biosynthesis
G0:0032196 transposition
G0:0001654 eye development
G0:0006650 glycerophospholipid metabolism
G0:0051325 interphase
G0:0043122 regulation of I-kappaB kinase/NF-kappaB cascade
G0:0006119 oxidative phosphorylation
G0:0009142 nucleoside triphosphate biosynthesis
G0:0031667 response to nutrient levels
G0:0031589 cell-substrate adhesion
G0:0051170 nuclear import
G0:0051249 regulation of lymphocyte activation
G0:0051098 regulation of binding
G0:0006643 membrane lipid metabolism
G0:0010033 response to organic substance
G0:0032446 protein modification by small protein conjugation
G0:0009416 response to light stimulus
G0:0000087 M phase of mitotic cell cycle
G0:0016051 carbohydrate biosynthesis
G0:0043405 regulation of MAPK activity
G0:0019932 second-messenger-mediated signaling
G0:0051046 regulation of secretion
G0:0032269 negative regulation of cellular protein metabolism
G0:0007178 transmembrane receptor protein serine/threonine kinase signaling pathway
G0:0019953 sexual reproduction
G0:0030163 protein catabolism
G0:0040012 regulation of locomotion
G0:0006875 metal ion homeostasis
G0:0009314 response to radiation
G0:0022008 neurogenesis
G0:0006163 purine nucleotide metabolism
G0:0006807 nitrogen compound metabolism
G0:0045597 positive regulation of cell differentiation
G0:0019318 hexose metabolism
G0:0033674 positive regulation of kinase activity
G0:0002684 positive regulation of immune system process
G0:0051347 positive regulation of transferase activity

G0:0007276 gametogenesis
G0:0030001 metal ion transport
G0:0009888 tissue development
G0:0009607 response to biotic stimulus
G0:0051726 regulation of cell cycle
G0:0043009 embryonic development (sensu Vertebrata)
G0:0009308 amine metabolism
G0:0016044 membrane organization and biogenesis
G0:0019752 carboxylic acid metabolism
G0:0007610 behavior
G0:0051707 response to other organism
G0:0000278 mitotic cell cycle
G0:0048646 anatomical structure formation
G0:0048666 neuron development
G0:0045321 leukocyte activation
G0:0046907 intracellular transport
G0:0045859 regulation of protein kinase activity
G0:0048468 cell development
G0:0002682 regulation of immune system process
G0:0043069 negative regulation of programmed cell death
G0:0043068 positive regulation of programmed cell death
G0:0048870 cell motility
G0:0045595 regulation of cell differentiation
G0:0050896 response to stimulus
G0:0044262 cellular carbohydrate metabolism
G0:0019226 transmission of nerve impulse
G0:0006259 DNA metabolism
G0:0051128 regulation of cell organization and biogenesis
G0:0016071 mRNA metabolism
G0:0016310 phosphorylation
G0:0019725 cell homeostasis
G0:0048699 generation of neurons
G0:0043085 positive regulation of enzyme activity
G0:0051716 cellular response to stimulus
G0:0042592 homeostasis
G0:0043687 post-translational protein modification
G0:0006082 organic acid metabolism
G0:0006996 organelle organization and biogenesis
G0:0051603 proteolysis during cellular protein catabolism
G0:0045184 establishment of protein localization
G0:0007600 sensory perception
G0:0009966 regulation of signal transduction
G0:0050790 regulation of catalytic activity
G0:0050890 cognition
G0:0050793 regulation of development
G0:0006796 phosphate metabolism
G0:0008150 biological_process
G0:0006139 nucleobase, nucleoside, nucleotide and nucleic acid metabolism
G0:0051649 establishment of cellular localization
G0:0016043 cell organization and biogenesis
G0:0019538 protein metabolism
G0:0045449 regulation of transcription

G0:0002376 immune system process
G0:0009056 catabolism
G0:0007154 cell communication
G0:0006351 transcription, DNA-dependent
G0:0010468 regulation of gene expression
G0:0019222 regulation of metabolism
G0:0044267 cellular protein metabolism
G0:0009058 biosynthesis
G0:0016070 RNA metabolism
G0:0031323 regulation of cellular metabolism
G0:0009987 cellular process
G0:0050794 regulation of cellular process
G0:0044237 cellular metabolism
G0:0010467 gene expression

| Count | p-Value | q-Value | Protein | Input Symbol |
|-------|-----------|-----------|------------------|---|
| 329 | 4.50E-257 | 8.95E-255 | STAT1;ZNF395;NO | STAT1;ZNF395;NOTCH3;DDX54;HIPK3;ZNF238;ZNF529 |
| 268 | 1.11E-174 | 1.69E-172 | SMARCC1;ZNF143;S | SMARCC1;ZNF143;ZNF395;NOTCH3;NOTCH3;DDX54;HIP |
| 291 | 2.97E-159 | 3.84E-157 | CHRM2;PDE4B;CX3 | CHRM2;PDE4B;CCRL1;CCRL1;ADM;ARHGAP19;ANK2;CNT |
| 112 | 3.49E-138 | 4.09E-136 | HLA-A;HLA-A;HLA | HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA |
| 146 | 1.19E-133 | 1.28E-131 | THBS4;POSTN;FN1 | THBS4;POSTN;FN1;LOXL2;CCRL1;LPP;ITGB4;IL32;CN |
| 128 | 2.47E-116 | 2.20E-114 | DCLK1;PRKCH;PAK | DCLK1;PRKCH;CDKN1A;WNK4;NUAK2;DDR2;KSR1;BCR;T |
| 122 | 5.27E-115 | 4.54E-113 | EGLN3;CP;UTY;LEI | EGLN3;CP;UTY;LEPREL1;AKR1C1;LOXL2;MOXD1;ALOX1 |
| 197 | 3.39E-108 | 2.83E-106 | CHRD2;NTRK2;DCI | CHRD2;NTRK2;DCLK1;VEGFA;BST1;HK2;CDKN1A;ST6G |
| 61 | 3.21E-101 | 2.51E-99 | HLA-A;HLA-A;HLA | HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA |
| 127 | 1.24E-100 | 9.42E-99 | HLA-A;HLA-A;HLA | HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA |
| 66 | 2.07E-88 | 1.27E-86 | HLA-A;HLA-A;HLA | HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA |
| 92 | 3.56E-68 | 1.84E-66 | CP;ITPR1;KCNA5;I | CP;ITPR1;HK2;KCNK2;SLC39A8;WNK4;SLC8A1;CACNB3 |
| 65 | 2.97E-61 | 1.45E-59 | CDKN1A;UBR5;FAN | CDKN1A;UBR5;FANCI;MICA;RNF8;SHPRH;CHAF1B;TOP2 |
| 92 | 3.27E-61 | 1.57E-59 | CDC20;CROCC;SGO | CDC20;CROCC;SGOL1;FANCI;STAG2;RNF8;TFDP2;SIK1 |
| 72 | 2.78E-54 | 1.20E-52 | HECW1;FBXL22;ST | HECW1;FBXL22;STAMBPL1;KLHL13;FBXL5;MDM2;RNF14 |
| 51 | 3.06E-53 | 1.30E-51 | UTY;KDM5D;HDAC9 | UTY;KDM5D;HDAC9;HDAC11;TRRAP;KAT7;HDAC6;MLL5; |
| 98 | 9.09E-51 | 3.61E-49 | CHRD2;DCLK1;KII | CHRD2;DCLK1;HK2;ZIC1;SEMA6D;CHRD1;RBM45;SLC |
| 78 | 2.00E-48 | 7.70E-47 | NTRK2;CHRM2;VEG | NTRK2;CHRM2;VEGFA;CSGALNACT1;NRG1;HK2;SEMA6D; |
| 85 | 1.81E-47 | 6.89E-46 | MMP3;CFB;KLK2;M | MMP3;CFB;HK2;MASP1;APEH;LGMN;LRP8;PLAT;ERAP1; |
| 49 | 5.62E-46 | 2.05E-44 | CDC20;SGOL1;STA | CDC20;SGOL1;STAG2;RNF8;KIAA1009;UBE2C;KNTC1;D |
| 41 | 1.80E-44 | 6.47E-43 | DBC1;MTUS1;ALOX | DBC1;MTUS1;ALOX15B;EGFR;RASSF4;VWA5A;ARHGAP20 |
| 62 | 3.30E-44 | 1.15E-42 | CHI3L1;PPP1R3E;(| CHI3L1;PPP1R3E;CHI3L2;HYAL1;HYAL1;SLC2A5;PDK1 |
| 48 | 1.37E-42 | 4.71E-41 | ALOX15B;CDKN1A;I | ALOX15B;CDKN1A;PTGS2;MDM2;TNFRSF9;HDAC4;ETS1; |
| 45 | 4.65E-40 | 1.56E-38 | FANCI;SHPRH;CHAF | FANCI;SHPRH;CHAF1B;TOP2A;PRKDC;RFC4;TYMS;TP53 |
| 71 | 6.37E-40 | 2.11E-38 | CTNNB1;EGLN3;KI | CTNNB1;EGLN3;DBC1;TNFRSF11B;HIPK3;TNFRSF19;AC |
| 40 | 8.98E-40 | 2.94E-38 | CTNNB1;SMAD3;ZNI | CTNNB1;SMAD3;ZNF238;ID2;MDM2;HOXC8;SORBS3;HES |
| 65 | 9.40E-38 | 2.92E-36 | SCAMP1;SELENBP1 | SCAMP1;SELENBP1;ATG4B;EPS15;LYST;KIF20A;RAB3A |
| 34 | 2.26E-37 | 6.86E-36 | EYA2;PPP3CA;PTPI | EYA2;PPP3CA;PTPRS;PPP2R2A;DUSP10;PTPRF;CDC14A |
| 41 | 2.22E-36 | 6.53E-35 | PPARGC1A;SMAD3;(| PPARGC1A;SMAD3;SOX9;MAML3;HES1;RORA;AGRN;EGR2 |
| 34 | 2.81E-36 | 8.16E-35 | COL11A2;EYA4;MYO | COL11A2;EYA4;MYO15A;SIX1;ATP6V1B1;CHD7;COL4A3 |
| 40 | 3.12E-36 | 8.95E-35 | CDC20;SGOL1;STA | CDC20;SGOL1;STAG2;RNF8;KIAA1009;UBE2C;ANLN;TA |
| 30 | 1.76E-35 | 4.89E-34 | DBC1;CDKN1A;THB | DBC1;CDKN1A;THBS1;SMAD3;MLL5;CDKN2A;CDKN2A;NB |
| 41 | 1.66E-32 | 4.34E-31 | TBC1D8;ADM;DDR2 | TBC1D8;ADM;DDR2;TKT;LYN;FGF18;HES1;CD81;NAMPT |
| 31 | 2.79E-32 | 7.21E-31 | SLC4A8;SLC4A7;SI | SLC4A8;SLC4A7;SLC8A1;SLC9A8;SCN10A;SLC4A4;SLC |
| 41 | 1.38E-31 | 3.49E-30 | CHST1;C3;EPHX2;(| CHST1;C3;EPHX2;CXCL2;ORM1;MGLL;APOL3;HDAC9;BD |
| 37 | 6.81E-31 | 1.71E-29 | NFIA;MYST2;CHAF | NFIA;KAT7;CHAF1B;TOP2A;RFC4;ORC1;TYMS;GINS1;P |
| 27 | 8.24E-31 | 2.05E-29 | CTNNB1;ITGB4;IT | CTNNB1;ITGB4;ITGA3;ITGB1BP1;CD44;COL5A3;ITGB8 |
| 33 | 2.99E-30 | 7.35E-29 | PRKCZ;PRDX2;THB | PRKCZ;PRDX2;THBS1;HIPK3;TNFAIP3;SOCS2;BIRC6;H |
| 34 | 6.70E-29 | 1.59E-27 | CDC20;USP9Y;UBR | CDC20;USP9Y;UBR5;UBE2D3;USP48;BTRC;USP25;UBE2 |
| 33 | 1.35E-27 | 2.95E-26 | TGM2;ALOX15B;SM | TGM2;ALOX15B;SMAD3;TNFRSF19;TNFRSF9;STK17B;CD |
| 34 | 1.95E-27 | 4.22E-26 | KDM5D;USP9Y;KHD | KDM5D;USP9Y;KHDRBS3;SLC2A14;APOB;TESK2;BRD2;L |
| 53 | 2.66E-26 | 5.68E-25 | ALOX15B;HSD17B6 | ALOX15B;HSD17B6;LDLRAP1;LRP8;ALDH3A2;MGLL;APO |
| 34 | 9.46E-26 | 2.00E-24 | CTNNB1;POSTN;TN | CTNNB1;POSTN;TNFRSF11B;COL10A1;EIF2AK3;COL1A2 |
| 97 | 2.66E-25 | 5.46E-24 | LAP4A_HUMAN;SLC | LAP4A;SLC14A1;NPTX1;SLC47A1;ZNF238;SYT9;SDH |
| 54 | 1.09E-24 | 2.21E-23 | CSGALNACT1;S100 | CSGALNACT1;S100B;TBX20;SERPINF1;UBR5;TGFA;CLK |
| 30 | 7.25E-24 | 1.41E-22 | AP1S3;HOOK2;LDL | AP1S3;HOOK2;LDLRAP1;LRP8;RASSF4;DNM3;FNBP1;LDLR |
| 22 | 9.07E-24 | 1.75E-22 | TGM2;TRAF3IP2;AI | TGM2;TRAF3IP2;APOL3;ECM1;PLK2;HMOX1;REL;UBE2V |
| 32 | 3.28E-23 | 6.23E-22 | PPARGC1A;TARDBP | PPARGC1A;TARDBP;PPIL3;SRRM1;PRPF40A;SF1;PPIE; |
| 21 | 9.81E-23 | 1.81E-21 | RASGRF2;BCR;PRE | RASGRF2;BCR;PREX2;PLEKHG3;PLEKHG1;FGD6;ITSN2; |
| 67 | 1.44E-22 | 2.59E-21 | DCLK1;S100A1;PRI | DCLK1;S100A1;PRKCH;PRKCZ;TRAF3IP2;TREM1;ARHGA |
| 28 | 4.42E-21 | 7.47E-20 | NUAK2;FHOD3;FMN | NUAK2;FHOD3;FMN2;CAPZB;TESK2;ARHGA |

41 1. 59E-20 2. 61E-19 PCSK1;STC1;ADM;IPCSK1;STC1;ADM;EDN1;EFNB1;FGF18;NAMPT;CXCL14;
18 7. 36E-20 1. 17E-18 VEGFA;EDN1;ITPR;VEGFA;EDN1;ITPR1;THBS1;SMAD3;RYR1;ECE1;HMOX1;
26 8. 50E-20 1. 35E-18 SIX1;DMD;LAMA2;(SIX1;DMD;LAMA2;CAPN3;MET;UTRN;SOX6;SGCB;FHL1;
22 2. 94E-19 4. 60E-18 IL1RL1;APOBEC3G;IL1RL1;APOBEC3G;CD55;TLR5;APOBEC3F;APOL1;CD46
37 1. 12E-18 1. 72E-17 SMARCC1;ZNF143;ISMARCC1;ZNF143;LRRFIP1;RNF14;DBP;BRWD1;FOSL1;
25 1. 12E-18 1. 72E-17 ABLIM1;RIMS1;EY/ABLIM1;RIMS1;EYA4;SFRP5;EML2;OAT;COL11A1;RP9;
21 1. 28E-18 1. 96E-17 BTRC;FZD4;LRRFII;BTRC;FZD4;LRRFIP2;CSNK1A1;SFRP5;RSP01;FZD6;PY
16 1. 61E-18 2. 45E-17 NTRK2;EGFR;PDGFR;NTRK2;EGFR;PDGFRA;EIF2AK3;CAMK2D;TAF1;MAP3K11
30 1. 88E-18 2. 83E-17 PPARGC1A;RIMS1;PPARGC1A;RIMS1;MDM2;HLA-H;WIPF1;CHAF1B;HFE;KN
32 1. 96E-18 2. 95E-17 PGAP1;AP1S3;SYT1BST1;AP1S3;SYTL2;SAR1B;ARFIP1;RIMS1;RAMP1;SNU
19 4. 97E-18 7. 29E-17 KIF2A;KIF27;KIF2HK2;KIF27;KIF26B;TUBA4A;KIF20A;DYNC2H1;KIF23;
16 5. 07E-18 7. 37E-17 CDKN1A;SMAD3;CDKN1A;SMAD3;CDKN2A;BTG1;TP63;RERG;NDRG3;APBB
27 5. 92E-18 8. 55E-17 CTNNB1;NPTX1;GR/CTNNB1;NPTX1;GRIA1;KCNMB1;KCNMB4;SP110;ATXN3;
15 9. 53E-18 1. 36E-16 ITGB4;ITGA3;ITGI;ITGB4;ITGA3;ITGB8;ADAM9;ITGBL1;ITGA2;ITGA1;IT
20 1. 95E-17 2. 75E-16 ITPR1;CACNB3;CA/ITPR1;CACNB3;CACNA1I;RYR1;CACNA2D1;ASIC1;CAMK
21 2. 09E-17 2. 94E-16 CTNNB1;ADM;EDN1;CTNNB1;ADM;EDN1;ID2;SOX9;ECE1;NF1;MAP2K5;EGLN
33 7. 02E-17 9. 49E-16 RIN2;PDK1;RASL1;RASSF4;PDK1;RASL1B;TNK2;RAB3A;HMOX1;LRRK2;AR
14 1. 03E-16 1. 38E-15 AKR1C1;TGM2;EIF/AKR1C1;TGM2;EIF2AK3;MUC20;SCUBE1;DGKD;LNX1;SC
15 1. 59E-16 2. 11E-15 CTNNB1;HHIP;PDG/CTNNB1;HHIP;PDGFRA;FGF18;HES1;RAB3A;ZFPM2;FGF
14 3. 44E-16 4. 40E-15 PFKP;HK2;ENO2;G/PFKP;HK2;ENO2;GK;TPI1;ALDOA;PFKL;ALDOC;GAPDH;
17 5. 04E-16 6. 38E-15 FBXL5;UBE2D3;MD/ FBXL5;UBE2D3;MDM2;RNF14;RNF8;UBE2C;TRIP12;BAR
21 2. 20E-15 2. 70E-14 ZIC1;NOTCH4;SHR/ZIC1;NOTCH3;SHROOM2;ROBO2;PGD;NF1;CTTNBP2;MET
11 2. 60E-15 3. 16E-14 MAP3K13;PYCARD;MAP3K13;PYCARD;UBE2V1;NPM1;IRAK2;NOD2;AGT;TLR
13 2. 81E-15 3. 40E-14 FN1;VEGFA;ALDOA;FN1;VEGFA;ALDOA;MYH14;FGD6;ARAP3;MYH10;SHROOM
17 3. 10E-15 3. 73E-14 PTGS2;PRDX2;ANGI;PTGS2;PRDX2;ANGPTL7;GPX3;ADAM9;RRM2B;DDIT3;SE
15 3. 81E-15 4. 56E-14 ABCC1;S22AI_HUM/ABCC1;SLC22A18;POLK;CTTNBP2;CENPF;SOD1;DDIT3;
9 6. 34E-15 7. 51E-14 HK2;APLN;XDH;SL/HK2;APLN;XDH;SLC6A3;OXTR;CTTNBP2;MET;PRLR;STA
25 6. 72E-15 7. 89E-14 PPARGC1A;TARDBP;PPARGC1A;TARDBP;PPIL3;PAPD4;PRPF40A;PPIE;DHX1
19 7. 31E-15 8. 55E-14 KCNK2;KCNMB1;KCNK2;KCNMB1;KCNMB4;KCNH1;SLC12A7;SLC12A2;KCN
19 9. 24E-15 1. 08E-13 CX3CR1;CCRL1;CX/CCRL1;CCRL1;CXCL2;CXCL14;CXCL13;FOSL1;ROBO2;C
12 1. 68E-14 1. 92E-13 STAT1;SMAD3;TNF/STAT1;SMAD3;TNFSF15;EIF2AK3;CDKN2A;COL4A3;PYC
26 1. 75E-14 2. 00E-13 NRG1;ID2;LRRFIP;NRG1;ID2;LRRFIP1;HR;RUNX2;NAB1;HMGB2;LRRN1;RF
19 1. 83E-14 2. 07E-13 ST13;SIL1;PPIL3;ST13;SIL1;PPIL3;NFYC;PPIE;PDIA6;DNAJB2;FKBP5;
17 2. 07E-14 2. 34E-13 CHRDL2;EGFR;CHRI;CHRDL2;EGFR;CHRDL1;ATP6V1B1;PDLIM7;COL1A1;MEN
15 2. 11E-14 2. 36E-13 GPR126;CD97;MCHI;GPR126;CD97;MCHR1;SCG5;CELSR2;NXPH4;GPR56;GPR
10 2. 38E-14 2. 66E-13 COL14A1;COL5A3;(COL14A1;COL5A3;COL11A2;COL1A2;NF1;COL12A1;COL
9 3. 02E-14 3. 37E-13 TGM2;EDN1;NOTCH/TGM2;EDN1;NOTCH3;AGPAT1;HGF;CDH13;NOTCH4;HBEG
19 3. 16E-14 3. 51E-13 TBX20;SLC8A1;RYI;TBX20;SLC8A1;RYR1;GJA5;CALD1;DES;GNAO1;OXTR;D
14 3. 26E-14 3. 60E-13 PSG4;ADM;PSG5;P/PSG4;ADM;PSG5;PSG9;PSG9;OVGP1;PAPPA;OXTR;GNAS
31 3. 80E-14 4. 14E-13 SMARCC1;HHIP;ABI;SMARCC1;HHIP;ABLIM1;PDGFRA;JAG1;ITGA2;DCN;FHL
23 4. 03E-14 4. 37E-13 VEGFA;CDKN1A;NU/VEGFA;CDKN1A;NUAK2;BARD1;KRT18;MAPK8;SMO;CD74
14 4. 86E-14 5. 25E-13 CDH4;EFNB1;SEMA/CDH4;EFNB1;SEMA5A;SEMA6C;SEMA4F;MYH10;SEMA3A;
11 6. 75E-14 7. 24E-13 CTNNB1;PPARGC1A;CTNNB1;PPARGC1A;RNF14;MED24;RNF4;KDM3A;MED12;
13 9. 81E-14 1. 04E-12 PRDX2;SELT;TXNRI;PRDX2;SELT;TXNRD1;PDIA6;GBF1;TMX3;DDIT3;TXNDC
17 9. 85E-14 1. 04E-12 PVRL3;FAT3;CDH4;PVRL3;FAT3;CDH4;CADM3;DSG3;ROBO2;CELSR2;FAT1;
26 1. 46E-13 1. 51E-12 RPS4Y2;SECISBP2;RPS4Y2;SECISBP2;PABPC4;RRBP1;ABTB1;QRSL1;RPL3
8 1. 60E-13 1. 65E-12 HDAC9;HDAC11;HD/HDAC9;HDAC11;HDAC6;HDAC2;HDAC1;HDAC3;HDAC8;HO
15 1. 79E-13 1. 83E-12 EDN1;APOB;HES1;(EDN1;APOB;HES1;CHD7;ZFPM2;NBN;PTPRQ;CCNB2;LIG
10 2. 31E-13 2. 35E-12 AKR1C1;LDLRAP1;/AKR1C1;LDLRAP1;APOB;MALL;LDLR;NPC1;ACAT1;ABCA
24 3. 64E-13 3. 66E-12 SMARCC1;TBX20;N/SMARCC1;TBX20;NOTCH3;RNF14;ETS1;TRERF1;RNF4;T
19 4. 16E-13 4. 16E-12 ALOX15B;ACOX2;S/ALOX15B;ACOX2;SLC27A3;PRKAR2B;ECHDC2;ACADSB;A
14 4. 17E-13 4. 16E-12 LDLRAP1;APOL2;AI;LDLRAP1;APOL3;APOB;LDLR;APOL1;OSBPL1A;ACAT1;A

23 4. 25E-13 4. 22E-12 DCLK1;NRCAM;NPTX1;DCLK1;NRCAM;NPTX1;S100B;RCAN1;ALDH3A2;RPS6KA6
11 4. 55E-13 4. 50E-12 RGS4;RGS5;GRK5;RGS4;RGS5;GRK5;RGS3;RAMP1;GRK4;RGS7;RIC8B;RGS
16 8. 44E-13 8. 23E-12 SLCO2A1;STARD5;SLCO2A1;STARD5;APOL3;APOL3;APOB;GULP1;LDLR;AP
17 1. 18E-12 1. 14E-11 VEGFA;TGFA;FGF1;VEGFA;TGFA;FGF18;JAG1;FGF1;TNFAIP2;HS6ST1;C1G
15 1. 46E-12 1. 40E-11 NDUFA10;CYB561;NDUFA10;CYB561;NDUFS7;TXNRD1;ERO1L;MADD;MADD;
20 1. 57E-12 1. 50E-11 FN1;DDR2;DDR2;FN1;DDR2;TKT;ROS1;COL1A2;BDKRB2;DDR1;NGF;NTRK
12 1. 97E-12 1. 87E-11 CP;STC1;CFB;PPA1;CP;STC1;CFB;PPARG;BCKDHA;APOM;COL1A1;BRCA2;DD
9 5. 31E-12 4. 92E-11 NTRK2;VEGFA;ZFP1;NTRK2;VEGFA;ZFP2;ZFP36L1;SMO;EGFL7;FAP;CAV1;
12 6. 27E-12 5. 78E-11 THBS1;TGFA;CD81;THBS1;TGFA;CD81;DRD4;MET;MAP2K3;MADD;FPR1;SOD
7 9. 52E-12 8. 60E-11 SIX1;CCNB2;HOXA;SIX1;CCNB2;HOXA3;SOD1;TBX1;JARID2;BCL2L11
11 1. 12E-11 1. 01E-10 FBN2;GJA5;HOXC1;FBN2;GJA5;HOXC10;DYNC2H1;LEF1;PTCH1;GDF5;PBX2
10 1. 50E-11 1. 34E-10 BAIAP2;PDPK1;ZFP1;BAIAP2;PDK1;ZFP106;PHIP;SOCS7;GAB1;SORBS1;PIK
12 1. 78E-11 1. 59E-10 SIL1;RRBP1;XPO7;SIL1;RRBP1;XPO7;NUP160;NUP214;RANBP17;SEC61A2
25 2. 12E-11 1. 86E-10 ITGB1BP1;WNK4;RITGB1BP1;WNK4;RPS6KA1;RPS6KA6;SIK1;STK17B;TNI
9 2. 20E-11 1. 93E-10 APOB;RAB3A;STK3;APOB;RAB3A;STK36;SCUBE1;SEPP1;SEMA3C;CHST11;A
17 2. 75E-11 2. 39E-10 HSD17B6;LDLRAP1;HSD17B6;LDLRAP1;APOB;CYP39A1;LDLR;APOL1;OSBPL
12 2. 90E-11 2. 51E-10 EDN1;PTGS2;ERAP;EDN1;PTGS2;ERAP1;CORIN;COL1A2;ERAP2;HMOX1;ACT
8 3. 65E-11 3. 12E-10 MAP3K1;MAP4K1;MAP3K1;MAP4K1;MAP3K6;MAP3K11;DBNL;MDFIC;ZAK;M
10 4. 01E-11 3. 42E-10 ALOX15B;CHRD;NF;ALOX15B;CHRD;NF1;ARAP3;PTPRU;MIA3;PTEN;EGFL7;
10 4. 01E-11 3. 42E-10 TPD52;VCAM1;HDAC;TPD52;VCAM1;HDAC9;HDAC4;NHEJ1;TSHR;PIK3R1;MSH
10 5. 05E-11 4. 28E-10 IFT88;ATP6V1B1;IFT88;ATP6V1B1;HMOX1;CLCNKB;SLC22A18;AQP3;NPH
8 5. 54E-11 4. 67E-10 CAPZB;GSN;SCIN;CAPZB;GSN;SCIN;ADD2;SVIL;AVIL;SPTBN1;TRIOBP
16 5. 91E-11 4. 96E-10 ABLIM1;PALLD;DE;ABLIM1;PALLD;DES;MARK1;SGCB;KRT7;ARAP3;SEMA6A
46 6. 77E-11 5. 66E-10 HECW1;LOXL2;PLA;HECW1;LOXL2;PLAT;UBR5;CDKL3;USP48;TLL7;USP25
5 1. 18E-10 9. 60E-10 PDK1;PDK2;PDK3;PDK1;PDK2;PDK3;BCKDK;PDK4
9 1. 28E-10 1. 04E-09 CD81;TNK2;CD4;N;CD81;TNK2;CD4;NOD2;AGT;HGF;GHR;LIF;IGF1
38 1. 39E-10 1. 12E-09 CX3CR1;CCRL1;C3;CCRL1;CCRL1;C3;CKNK2;GPRC5C;PREX2;FZD4;GPER;B
10 1. 47E-10 1. 19E-09 TBC1D8;TBC1D15;TBC1D8;TBC1D15;RABGAP1L;SGSM3;TBC1D26;EVI5;TB
11 1. 50E-10 1. 20E-09 CFB;EIF2AK3;APO;CFB;EIF2AK3;APOM;CREB3L2;DNAJB2;HSPA4L;DERL1;
13 1. 58E-10 1. 27E-09 STAT1;APOBEC3G;STAT1;APOBEC3G;FOSL1;PRKRA;XPO1;BCL3;TRIM5;IF
12 1. 67E-10 1. 33E-09 ALDOA;ATP11A;ATP11A;ATP11A;ATP8B3;ATP2B4;ATP10B;ATP11C;ATP1
8 1. 72E-10 1. 37E-09 EGFR;TGFA;LAMC1;EGFR;TGFA;LAMB2;FGF1;LAMA1;DLX6;LAMB1;IGF1
7 2. 23E-10 1. 76E-09 RFC4;POLD3;LIG4;RFC4;POLD3;LIG4;PCNA;POLE;RPA3;RFC5
8 2. 42E-10 1. 89E-09 ID2;HMOX1;EGLN1;ID2;HMOX1;EGLN1;SP100;MEN1;IRAK2;FLNA;PEX14
13 3. 46E-10 2. 67E-09 HK2;PDK1;SORD;PIHK2;PDK1;SORD;PDK2;SLC37A4;GAPDH;PDK3;AKT2;H6
9 4. 39E-10 3. 38E-09 EDN1;HHIP;TBX20;EDN1;HHIP;TBX20;IFT172;DYNC2H1;SMO;BMPR1B;GLI
8 4. 59E-10 3. 51E-09 C3;MASP1;CD55;C3;MASP1;CD55;CD46;C1S;CFI;CLU;C5
7 5. 68E-10 4. 32E-09 CDKN1A;PDGFRA;SI;CDKN1A;PDGFRA;SPHK1;LIG4;AGT;PDGFA;IGF1
7 5. 68E-10 4. 32E-09 THBS1;PFKL;EIF2;THBS1;PFKL;EIF2B4;SLC30A8;GLUL;SARM1;TGFB2
7 5. 68E-10 4. 32E-09 DYNC2LI1;IFT172;DYNC2LI1;IFT172;DYNC2H1;BBS5;PCM1;PCNT;ARL6
9 6. 86E-10 5. 16E-09 CDKN1A;CDKN2A;CDKN1A;CDKN2A;CAMK2D;CDKN3;POLE;CDCA5;CUL4A;D
5 7. 02E-10 5. 26E-09 LPL;APOB;CPS1;LPL;APOB;CPS1;PNPLA3;LIPC
12 7. 50E-10 5. 59E-09 HOXC8;HOXB6;HOXC;HOXC8;HOXB6;HOXC10;LRP5;HOXB5;HOXC9;HOXC6;HOX
7 8. 67E-10 6. 41E-09 FN1;TGM2;THBS1;FN1;TGM2;THBS1;LOR;TGM5;DSP;F13A1
7 8. 67E-10 6. 41E-09 XPO7;XPO1;NUP214;XPO7;XPO1;NUP214;STRADB;EIF5A;CCHCR1;XPO5
11 8. 90E-10 6. 55E-09 PTGS2;PRKAA2;TP;PTGS2;PRKAA2;TPI1;PTGDS;TBXAS1;GBF1;PRKAB1;PR
17 1. 14E-09 8. 40E-09 RASGRF2;GARNL3;RASGRF2;GARNL3;NF1;RALGDS;RASGEF1A;RAP1GAP2;I
7 1. 29E-09 9. 33E-09 EXOC6B;STXBP1;V;EXOC6B;STXBP1;VPS33A;EXOC6;EXOC4;STXBP2;VPS45
8 1. 43E-09 1. 03E-08 THBS1;ADAM9;AQP;THBS1;ADAM9;AQP3;MGP;NEDD4;SLC25A12;HTT;KCNMA
13 1. 71E-09 1. 23E-08 CRIM1;SOCS2;CAM;CRIM1;SOCS2;CAMK2D;CHAD;MORF4L1;WISP3;KAZALD1
6 1. 96E-09 1. 40E-08 MCM7;HMGB2;MCM2;MCM7;HMGB2;CCNL1;HMGB1;MCM2;MCM2;TOP1MT;TOP3B
10 2. 33E-09 1. 64E-08 PPARGC1A;TBPL1;PPARGC1A;TBPL1;MED24;TAF1;TBP;GTF2A2;MED12;ER

11 2. 49E-09 1. 73E-08 XPO7; XPO1; NUP214; XPO7; XPO1; NUP214; RANBP17; NCBP2; THOC1; LRPPRC; N
7 2. 67E-09 1. 85E-08 CTNNB1; ETS1; PPAI CTNNB1; ETS1; PPARG; GTF2A2; TCF7L2; NR1H3; TCF4; AT
7 2. 67E-09 1. 85E-08 SDHA; IDH3G; SDHC SDHA; IDH3G; SDHC; NNT; ACO1; ACO2; KIAA0100
10 2. 70E-09 1. 86E-08 PUS7L; TYW1B; TRM PUS7L; TYW1B; TRMT6; TRMT2B; TYW3; FDXACB1; ELAC1; A
24 3. 33E-09 2. 30E-08 SYTL2; SAR1B; KIF SYTL2; SAR1B; KIF20A; OSBPL1A; AP3M2; STXBP1; ARAP3
7 3. 73E-09 2. 55E-08 ORC1L; MCM7; MCM2 ORC1; MCM7; CCNL1; ORC2; POLA1; ORC4; MCM2; MCM2; MCM
8 3. 84E-09 2. 61E-08 EGFR; SOCS5; EPS1 EGFR; SOCS5; EPS15; GAB1; REPS2; DGKD; AR; HBEGF
9 4. 69E-09 3. 16E-08 EGFR; PDGFRA; CXCI EGFR; PDGFRA; CXCL16; SPHK1; PDGFA; PIK3R1; CDH13; L
9 4. 69E-09 3. 16E-08 WNK4; ANO1; APOL1 WNK4; ANO1; APOL1; CLCNKB; SLC12A7; CLIC6; CLCN4; FX
28 4. 70E-09 3. 16E-08 STAT1; SOX5; TARDI STAT1; SOX5; TARDBP; ETV1; TRIP13; TCERG1; TSC22D1;
10 4. 75E-09 3. 19E-08 SLC2A9; SLC2A5; SI SLC2A9; SLC2A5; SLC2A12; SLC2A14; SLC2A3; SLC37A3;
7 5. 14E-09 3. 42E-08 CP; HFE; HFE; TFRC CP; HLA-H; HFE; TFRC; SOD1; ABCB6; MFI2; SLC40A1
7 5. 14E-09 3. 42E-08 EDN1; DGKI; DGKG; EDN1; DGKI; DGKG; SPHK1; PRKD3; DGKD; DGKH
7 5. 14E-09 3. 42E-08 ZMIZ1; BRCA2; NPM ZMIZ1; BRCA2; NPM1; SOD1; NOX4; HTT; PRELP
6 5. 63E-09 3. 71E-08 CTNNB1; EDN1; TBX CTNNB1; EDN1; TBX20; NOTCH3; SEMA5A; NOTCH4; TGFB2
6 5. 63E-09 3. 71E-08 HDAC6; MAP1B; CLA HDAC6; MAP1B; CLASP2; MAP2; MAPT; MAP4
5 6. 44E-09 4. 22E-08 IL1RL1; TNFAIP3; IL1RL1; TNFAIP3; NLRP12; C9orf89; CARD8
11 7. 01E-09 4. 56E-08 TFPI2; SERPINA1; I TFPI2; SERPINA1; PLAT; SERPINE1; PABPC4; ITGA2; SCU
8 7. 44E-09 4. 83E-08 SIX1; HOXB6; HOXB SIX1; HOXB6; HOXB5; HOXC9; HOXA3; MEN1; HOXB8; CHST1
11 7. 81E-09 5. 05E-08 MYH10; EXOC7; EXO MYH10; EXOC1; EXOC1; UNC13B; DLG4; RAPGEF4; ANK1; EX
6 8. 93E-09 5. 76E-08 THBS1; TNFSF15; NI THBS1; TNFSF15; NF1; CTTNBP2; ATP5A1; CAV1
6 8. 93E-09 5. 76E-08 TLX1; BCL3; NFKB2 TLX1; BCL3; NFKB2; JARID2; FAS; BCL2L11
8 9. 16E-09 5. 88E-08 HLA-DPB1; HLA-DPI HLA-DPB1; HLA-DPB1; HLA-DPB1; HLA-DPB1; HLA-DPA1;
7 9. 32E-09 5. 95E-08 HFE; HFE; MFI2; HEI HLA-H; HFE; MFI2; HEPH; SFXN5; SLC25A37; STEAP3; SLC
7 9. 32E-09 5. 95E-08 POLD3; PMS2; MSH2 POLD3; PMS2; MSH2; ANKRD17; TDG; TP73; MSH3
7 9. 32E-09 5. 95E-08 NR4A3; NBN; HEXB; NR4A3; NBN; HEXB; MYH10; HEXA; KCNMA1; SLC1A3
13 9. 48E-09 6. 01E-08 HNRNPF; CSTF2; RB HNRNPF; CSTF2; RBM5; SRRM1; HNRNPH3; FUS; PCBP2; SNW
7 1. 23E-08 7. 76E-08 RTTN; DYNC2LI1; I RTTN; DYNC2LI1; IFT172; DYNC2H1; RFX3; SMO; ARL6
9 1. 23E-08 7. 76E-08 CHRM2; S100A1; DE CHRM2; S100A1; DES; GNAO1; THRB; SP4; HSPB7; HBEGF; H
17 1. 30E-08 8. 17E-08 STK3; TOP2A; SCIN STK3; TOP2A; SCIN; BARD1; ALDH1A3; CSRNP3; ZAK; MEN1
6 1. 37E-08 8. 54E-08 FZD6; SHROOM3; FZI FZD6; SHROOM3; FZD3; DLC1; BBS4; CELSR1
6 1. 37E-08 8. 54E-08 XPO7; XPO1; RANBP XPO7; XPO1; RANBP17; NUP98; IPO5; TNPO1
5 1. 44E-08 8. 91E-08 VEGFA; PDGFRA; PD VEGFA; PDGFRA; PDGFA; PTEN; PDGFRB
5 1. 44E-08 8. 91E-08 CSTF2; PABPC1; API CSTF2; PABPC1; APLP1; GRSF1; CSTF3
7 1. 61E-08 9. 93E-08 LIG4; SOD1; AGT; M LIG4; SOD1; AGT; MSH2; BDNF; HTT; ATF2
10 1. 69E-08 1. 04E-07 RIMS1; SLC6A3; SL RIMS1; SLC6A3; SLC6A6; ICA1; SLC6A8; NET1; NET1; SLC
6 2. 03E-08 1. 24E-07 POLS; NCAPG; NUSAI POLK; NCAPG; NUSAP1; CDCA5; SMC2; SMC4
7 2. 08E-08 1. 26E-07 PRKAA2; HMGCS1; C PRKAA2; HMGCS1; CYP51A1; HMGCR; FDFT1; EBP; CYB5R3
13 2. 52E-08 1. 52E-07 PLA2G4A; PLB1; LPI PLA2G4A; PLB1; LPL; APOB; PLA1A; PNPLA2; PNPLA3; PLA
9 2. 54E-08 1. 53E-07 CDC20; BTRC; UBE2 CDC20; BTRC; UBE2C; RPN2; PSMB8; CDK1; PSMD1; PSMA4;
7 2. 66E-08 1. 59E-07 FN1; SERPINA1; OR FN1; SERPINA1; ORM1; APOL3; ITIH4; HGF; SERPINA3; AP
5 2. 85E-08 1. 70E-07 PTGDS; TBXAS1; PT PTGDS; TBXAS1; GBF1; CD74; PTGS1
5 2. 85E-08 1. 70E-07 PYCARD; NLRP12; P PYCARD; NLRP12; POP1; NOD2; CARD8
6 2. 95E-08 1. 74E-07 CTNNB1; IL6ST; BMI CTNNB1; IL6ST; BMPR1B; MEN1; HGF; SMAD1
6 2. 95E-08 1. 74E-07 PDPK1; LPIN1; PPAI PDK1; LPIN1; PPARG; SORBS1; AKT2; ENPP1
6 2. 95E-08 1. 74E-07 CHD7; SLC6A3; TSHI CHD7; SLC6A3; TSHR; AGT; STAT5B; GHR
11 3. 16E-08 1. 86E-07 ZFP36L1; KRT7; API ZFP36L1; KRT7; APLP1; MKNK1; EIF2B4; EIF2A; EIF2A; E
8 3. 39E-08 1. 99E-07 PPP1R3E; PYGL; SL PPP1R3E; PYGL; SLC37A4; IL6ST; PRKAG2; PHKA2; PPP1C
6 4. 17E-08 2. 44E-07 GBA; ABCA1; HEXB; GBA; ABCA1; HEXB; ARSB; HEXA; HPS4
4 5. 66E-08 3. 25E-07 SELT; SEPSECS; SEI SELT; SEPSECS; SLA; TRNAU1AP; DIO2
4 5. 66E-08 3. 25E-07 RAB3A; ZDHHC15; S RAB3A; ZDHHC15; STXBP1; DLG4
6 5. 79E-08 3. 27E-07 TGM2; NLRP12; PLA TGM2; NLRP12; PLA2G2A; AGT; STAT5B; CX3CL1

6 5.79E-08 3.27E-07 SMG5;SMG7;EXOSC1;SMG5;SMG7;EXOSC10;DCP1B;EIF4A3;SMG6
6 5.79E-08 3.27E-07 MAPK8;CASP8;TRAF1;MAPK8;CASP8;TRAF2;DLC1;FAS;BCL2L11
11 7.00E-08 3.93E-07 ST6GAL2;ST3GAL6;ST6GAL2;ST3GAL6;ST3GAL4;LARGE;ST3GAL1;TSPAN8;
5 8.80E-08 4.91E-07 NTRK2;NGF;KCNMB2;NTRK2;NGF;KCNMB4;SNCAIP;CAMK2A
5 8.80E-08 4.91E-07 LPIN1;CDC42BPG;ILPIN1;CDC42BPG;FLNA;CDC42BPA;ATP2C1
8 8.85E-08 4.93E-07 CP;LOXL2;NOTCH4;CP;LOXL2;NOTCH3;AGPAT1;DDIT3;PTH1R;NOTCH4;IFI
12 9.77E-08 5.41E-07 UGCG;COL7A1;DCT;UGCG;COL7A1;DCT;ALDH3A2;LAMA3;PLOD1;LAMC2;KRT
9 1.15E-07 6.31E-07 BDKRB2;CD55;CXCL1;BDKRB2;CD55;CXCL13;MCHR1;CACNA1A;CCL28;EPOR;P
8 1.19E-07 6.51E-07 HFE;HFE;CXCL16;HLA-H;HFE;CXCL16;STAB1;PDLIM7;DNM1;HIP1R;CLTC
12 1.21E-07 6.60E-07 RGS4;RGS5;SOCS5;RGS4;RGS5;SOCS5;RGS3;SOCS2;RGS7;SOCS7;SOCS7;R
7 1.45E-07 7.83E-07 ZIC1;MYO15A;SIX1;ZIC1;MYO15A;SIX1;CHD7;FZD6;FZD3;DLX6
7 1.45E-07 7.83E-07 JAG1;ADAM9;LOR;JAG1;ADAM9;LOR;TXNIP;SMARCA4;DSP;CASP3
4 1.68E-07 9.01E-07 ERAP1;ERAP2;TAPEERAP1;ERAP2;TAPBP;TAP2
4 1.68E-07 9.01E-07 BUB1;CENPF;ATM;BUB1;CENPF;ATM;TTK
4 1.68E-07 9.01E-07 STAT5B;ACO1;ACO2;STAT5B;ACO1;ACO2;GHR
8 1.80E-07 9.53E-07 CSGALNACT1;PDGFR;CSGALNACT1;PDGFRA;BCL3;APLP1;MPZL3;AGT;LGALS3
8 1.80E-07 9.53E-07 LRP8;SOCS5;IL6ST;LRP8;SOCS5;IL6ST;STAT5B;CX3CL1;KLF6;LIFR;IRAK
6 1.82E-07 9.59E-07 PPARGC1A;MDM4;PIPPARGC1A;MDM4;PRKCD;FLNA;COG3;HPS4
6 1.82E-07 9.59E-07 ACOX2;HSD17B4;ACOX2;DBP;ACADVL;HADHB;ACADM;CHKB
7 2.08E-07 1.09E-06 MCTP2;EDN1;RCAN1;MCTP2;EDN1;RCAN1;EIF2AK3;RCAN2;LAT2;SPHK1
7 2.47E-07 1.28E-06 TRMT6;MTIF3;EIF4;TRMT6;MTIF3;EIF4H;EIF3B;MTIF2;DDX1;NAT1
8 2.67E-07 1.38E-06 CDC20;UBE2C;PSMD1;CDC20;UBE2C;RPN2;PSMB8;CDK1;PSMD1;PSMA4;PSMD1
6 2.99E-07 1.54E-06 PRKCZ;HIPK3;PRK1;PRKCZ;HIPK3;PRKDC;MAP4K1;STK4;TGFB2
8 3.03E-07 1.56E-06 ATP6V1B1;ATP6V0E1;ATP6V1B1;ATP6V0E2;ATP5A1;NNT;ATP6V1H;SLC36A1;
10 3.26E-07 1.66E-06 UBE2C;PIK3C2B;TOP2A;UBE2C;PIK3C2B;TOP2A;RFC4;TYMS;HMGB2;PCNA;NDC8
8 3.44E-07 1.74E-06 STAG2;DSN1;TOP2A;STAG2;DSN1;TOP2A;NSL1;SRPK1;TOP3B;STAG3;ESPL1
6 3.78E-07 1.91E-06 NRG1;NOTCH4;LEF1;NRG1;NOTCH3;LEF1;BRCA2;NOTCH4;IGF1;BCL2L11
6 3.78E-07 1.91E-06 HES1;LSR;NF1;HGF;HES1;LSR;NF1;HGF;JARID2;ACADM
4 3.90E-07 1.95E-06 CHI3L1;CHI3L2;CHIT1;CHI3L1;CHI3L2;CHIT1;OVGP1
4 3.90E-07 1.95E-06 LAMA3;LAMA4;LAMA3;LAMA3;LAMA2;LAMA4;LAMA1
4 3.90E-07 1.95E-06 TOP2A;TOP1MT;ERCC3;TOP2A;TOP1MT;ERCC3;TOP3B
4 3.90E-07 1.95E-06 NR5A1;NF1;NR3C1;NF1;NR3C1;MDK
4 3.90E-07 1.95E-06 SPHK1;BRCA2;STAT5B;SPHK1;BRCA2;STAT5B;ASNS
7 4.05E-07 2.00E-06 SMARCC1;RERE;PBRM1;SMARCC1;RERE;PBRM1;MEN1;CHD5;KAT2B;CHD1;CHD6
5 4.69E-07 2.30E-06 HDAC6;DZIP3;HUWE1;HDAC6;DZIP3;HUWE1;UBE2V1;UBE3C
5 4.69E-07 2.30E-06 PIGN;PIGG;PIGW;PIGN;PIGG;PIGW;PIGL;PIGP
6 4.72E-07 2.30E-06 ADAM9;HMOX1;COL1A1;ADAM9;HMOX1;COL1A1;SOD1;DDIT3;PPP2CB
7 5.51E-07 2.67E-06 CDKN1A;MAPK8;ERCC3;CDKN1A;MAPK8;RAD1;MEN1;MSH6;REV1;CASP3
7 6.39E-07 3.09E-06 EDN1;SLC2A9;SLC2A9;EDN1;SLC2A9;SLC2A5;SLC2A3;SORBS1;SLC2A1;EDNRA
8 6.94E-07 3.32E-06 SLC38A6;SLC38A9;SLC38A6;SLC38A9;SAT2;SLC7A2;SLC38A4;SLC36A1;S
4 7.73E-07 3.67E-06 BCKDHB;BCKDHA;BCKDHB;BCKDHA;BCKDK;TMEM91;HIBCH
4 7.73E-07 3.67E-06 NR5A1;BCL3;BBS4;SF1;BCL3;BBS4;SUPT7L
6 8.77E-07 4.12E-06 VCAM1;EFNB1;IL6;VCAM1;EFNB1;IL6ST;TNFSF13B;HGF;NCK1
6 8.77E-07 4.12E-06 ACAP2;SMAP1;AGAP1;ACAP2;SMAP1;AGAP1;ARAP2;ARAP3;ADAP2
6 8.77E-07 4.12E-06 EGR2;HEXB;EIF2B;EGR2;HEXB;EIF2B4;HEXA;SBF2;SERINC5
5 9.04E-07 4.21E-06 NTRK2;NTRK1;GNAS;NTRK2;NTRK1;GNAS;CRHR1;EDNRA
5 9.04E-07 4.21E-06 EDN1;BDKRB2;ECE1;EDN1;BDKRB2;ECE1;KCNMB4;AGT
5 9.04E-07 4.21E-06 ALDH3A1;ALDH3A2;ALDH3A1;ALDH3A2;ALDH3B1;ALDH7A1;ALDH1A1
5 9.04E-07 4.21E-06 GGH;CPS1;PPAT;GGH;CPS1;PPAT;CTPS2;ASNS
3 1.11E-06 4.98E-06 NRCAM;AGRN;SCLT1;NRCAM;AGRN;SCLT1
3 1.11E-06 4.98E-06 BOC;BTG1;IGFBP3;BOC;BTG1;IGFBP3
3 1.11E-06 4.98E-06 EIF2AK3;FGF18;EIF2AK3;FGF18;CHST11

3 1. 11E-06 4. 98E-06 COL11A2;TBX1;FO COL11A2;TBX1;TTF2
3 1. 11E-06 4. 98E-06 ACIN1;TOP2A;DFFI ACIN1;TOP2A;DFFB
3 1. 11E-06 4. 98E-06 GALNT2;GALNT3;G GALNT2;GALNT3;GALNT1
3 1. 11E-06 4. 98E-06 GALNT2;GALNT3;G GALNT2;GALNT3;GALNT1
3 1. 11E-06 4. 98E-06 IL6ST;LIFR;LIF IL6ST;LIFR;LIF
3 1. 11E-06 4. 98E-06 STXBP1;BDNF;UCHI STXBP1;BDNF;UCHL1
3 1. 11E-06 4. 98E-06 ARAP3;DLC1;BCL6 ARAP3;DLC1;BCL6
3 1. 11E-06 4. 98E-06 MSH6;MSH2;MSH3 MSH6;MSH2;MSH3
10 1. 11E-06 4. 98E-06 SMARCC1;CHD7;CB SMARCC1;CHD7;CBX7;CHD9;NPTXR;CHD3;CHD5;CHD5;H
7 1. 12E-06 5. 00E-06 NRG1;NOTCH3;NOT(NRG1;NOTCH3;NOTCH3;MAML3;RBPJ;MIB2;APP;NOTCH4
4 1. 38E-06 6. 09E-06 PCSK1;DMD;MRPS3 PCSK1;DMD;MRPS28;PCSK5
4 1. 38E-06 6. 09E-06 UGCG;LARGE;ST8S UGCG;LARGE;ST8SIA1;A4GALT
4 1. 38E-06 6. 09E-06 CYP39A1;TRERF1;(CYP39A1;TRERF1;CYP46A1;FAP
4 1. 38E-06 6. 09E-06 PRKDC;NHEJ1;LIG PRKDC;NHEJ1;LIG4;POLA1
4 1. 38E-06 6. 09E-06 KRT18;PYCARD;PYI KRT18;PYCARD;POP1;KRT8
7 1. 46E-06 6. 38E-06 CHRDL2;EDN1;COL CHRDL2;EDN1;COL11A2;PITX1;COL2A1;HOXA3;CHST11
6 1. 82E-06 7. 94E-06 RCAN1;HMOX1;CTT RCAN1;HMOX1;CTTNBP2;GSTM3;BRCA2;TGFB2
5 2. 09E-06 9. 07E-06 MMP3;MMP16;MMP1 MMP3;MMP16;MMP11;MMP7;MMP19
5 2. 09E-06 9. 07E-06 THBS1;SERPINF1;(THBS1;SERPINF1;COL4A3;STAB1;TIE1
5 2. 09E-06 9. 07E-06 PDGFRA;GLI1;PDGI PDGFRA;GLI1;PDGFA;AR;IGF1
6 2. 15E-06 9. 30E-06 SAR1B;NRBP1;SAR SAR1B;NRBP1;SAR1A;HTT;COG3;BET1
4 2. 28E-06 9. 82E-06 CDKN1A;CDKN2A;M CDKN1A;CDKN2A;MEN1;CASP3
4 2. 28E-06 9. 82E-06 RNF14;SOCS2;STA RNF14;SOCS2;STAT5B;SLC25A36
4 2. 28E-06 9. 82E-06 HDAC9;HDAC4;LEF HDAC9;HDAC4;LEF1;LUC7L
7 2. 39E-06 1. 02E-05 NOTCH4;SOCS2;AGI NOTCH3;SOCS2;AGPAT1;FGFR3;STAT4;GHR;NOTCH4;NM
21 2. 55E-06 1. 09E-05 PRDX2;SOX9;ACTN PRDX2;SOX9;ACTN1;HTATIP2;BMF;MADD;BTG1;BCL2L1
7 2. 68E-06 1. 14E-05 CX3CR1;FOSL1;HL CCRL1;FOSL1;HLA-G;LSP1;SLC12A8;NCR1;LGALS3BP
5 2. 68E-06 1. 14E-05 ADAM9;BCKDHA;AG ADAM9;BCKDHA;AGT;TMEM91;HGF;FAS
9 3. 05E-06 1. 29E-05 PRKDC;RBPJ;KIN;(PRKDC;RBPJ;KIN;SFPQ;HMGB1;BRCA2;ZSWIM7;NONO;D
5 3. 40E-06 1. 44E-05 SMG5;SMG7;NUP16(SMG5;SMG7;NUP160;EIF5A;SMG6
4 3. 56E-06 1. 49E-05 CTNNB1;CHD7;RARI CTNNB1;CHD7;RARB;SMARCA4
4 3. 56E-06 1. 49E-05 EPB41L1;EPB41;LIEPB41L1;EPB41;DLG4;TLN1
4 3. 56E-06 1. 49E-05 GPX3;TP63;HPRT1 GPX3;TP63;HPRT1;CDA
4 3. 56E-06 1. 49E-05 CUL9;ZZEF1;HECTI CUL9;ZZEF1;HECTD3;MYCBP2
4 3. 56E-06 1. 49E-05 ARFIP2;CDH13;RAC(ARFIP2;CDH13;RAC1;NCK1
4 3. 56E-06 1. 49E-05 IL6ST;IL6;GHR;L IL6ST;HGF;GHR;LIF
7 3. 76E-06 1. 57E-05 CDC20;UBE2C;PSMI CDC20;UBE2C;RPN2;PSMB8;PSMD1;PSMA4;PSMD11;CDC
127 3. 77E-06 1. 57E-05 MMP3;PCSK1;PFKFI MMP3;PCSK1;PFKFB3;GSTM1;PLA2G4A;BST1;HYAL1;HY
9 3. 78E-06 1. 58E-05 LAMA3;LAMA4;JAG LAMA3;LAMA3;JAG1;SERPINE2;MAP3K1;LAMA2;LAMA4;
5 4. 26E-06 1. 77E-05 MICA;APOL1;HPRT MICA;APOL1;HPRT1;MICB;C5
8 4. 36E-06 1. 80E-05 CTNNB1;NOTCH3;D CTNNB1;NOTCH3;DYNC2H1;NR2F1;APLP1;DKK1;SMARCA
3 4. 39E-06 1. 80E-05 PFKFB3;PFKFB4;PI PFKFB3;PFKFB4;PFKFB2
3 4. 39E-06 1. 80E-05 EDN1;IL6ST;AGT EDN1;IL6ST;AGT
3 4. 39E-06 1. 80E-05 APOB;LDLR;HMOX1 APOB;LDLR;HMOX1
3 4. 39E-06 1. 80E-05 NARS2;DARS;DARS(NARS2;DARS;DARS2
3 4. 39E-06 1. 80E-05 MET;HGF;IGF1 MET;HGF;IGF1
3 4. 39E-06 1. 80E-05 HEXB;NEU3;HEXA HEXB;NEU3;HEXA
3 4. 39E-06 1. 80E-05 MSH6;MSH2;MSH3 MSH6;MSH2;MSH3
8 5. 15E-06 2. 08E-05 AGPAT5;LPCAT1;HI AGPAT5;LPCAT1;HEXB;AGPAT1;LCLAT1;GPAM;PTDSS2;
5 5. 28E-06 2. 11E-05 PCDHB9;NLGN1;CDI PCDHB9;NLGN1;CDH13;ATP2C1;CDH2
6 5. 35E-06 2. 12E-05 NRCAM;CTTNBP2;MI NRCAM;CTTNBP2;MET;NR2F1;MDGA1;MYH10
5 6. 48E-06 2. 56E-05 GPD2;SLC25A10;TI GPD2;SLC25A10;TPI1;GPI;PC

11 6. 64E-06 2. 61E-05 TBC1D8;ADM;RCAN TBC1D8;ADM;RCAN1;TBX20;EPB41;CHD7;COL4A3;ELN;
6 7. 03E-06 2. 76E-05 DCLK1;ZFYVE16;AIDCLK1;ZFYVE16;ABCA1;SQSTM1;ZFYVE20;HTT
4 7. 58E-06 2. 96E-05 CTNNB1;HOXC10;GICTNNB1;HOXC10;GLI1;PBX2
4 7. 58E-06 2. 96E-05 LPL;APOB;PLA2G2/LPL;APOB;PLA2G2A;AGT
4 7. 58E-06 2. 96E-05 SOX9;BMPR1B;MGP SOX9;BMPR1B;MGP;BMP1
4 7. 58E-06 2. 96E-05 SYNE1;NPLOC4;COXSYNE1;NPLOC4;COG1;GORASP2
4 7. 58E-06 2. 96E-05 LIG4;BRCA2;FANCLIG4;BRCA2;FANCD2;MEN1
6 9. 10E-06 3. 53E-05 TAF1;TBP;GTF2A2 TAF1;TBP;GTF2A2;ERCC3;POLR2B;POLR2D
5 9. 51E-06 3. 68E-05 CDKN1A;CDKN2A;DCDKN1A;CDKN2A;DLC1;CDKN2B;ATXN1
5 9. 51E-06 3. 68E-05 MICA;SOD1;EIF2B2/MICA;SOD1;EIF2B4;HSPB7;MICB
6 1. 03E-05 3. 98E-05 HYAL1;SUMF1;HEXIHyal1;SUMF1;HEXB;NAT6;ARSB;HEXA;HGSNAT
4 1. 05E-05 4. 03E-05 CTNNB1;LRP5;ODZ/CTNNB1;LRP5;ODZ4;ZBTB17
4 1. 05E-05 4. 03E-05 GJA5;TLN1;TLN2;GJA5;TLN1;TLN2;TJP1
4 1. 05E-05 4. 03E-05 SOD1;PRLR;PCSK5 SOD1;PRLR;PCSK5;TGFB2
3 1. 09E-05 4. 10E-05 THBS4;MYH10;SDCI THBS4;MYH10;SDCBP
3 1. 09E-05 4. 10E-05 THBS1;PTEN;ARHG/THBS1;PTEN;ARHGAP6
3 1. 09E-05 4. 10E-05 EIF2AK3;EPB41;AIEIF2AK3;EPB41;ADD2
3 1. 09E-05 4. 10E-05 FZD6;FZD3;CELSR FZD6;FZD3;CELSR1
3 1. 09E-05 4. 10E-05 MSH6;MSH2;MSH3 MSH6;MSH2;MSH3
5 1. 14E-05 4. 24E-05 ABCC9;MICA;LYST ABCC9;MICA;LYST;BNIP3L;HGF
5 1. 14E-05 4. 24E-05 ATP11A;ATP10B;AATP11A;ATP10B;ATP11C;ATP10D;ATP10A
10 1. 25E-05 4. 62E-05 SOCS5;FGFR2;NDR(SOCS5;FGFR2;NDRG4;FHL1;DGKD;FGFR3;MTOR;FGFR1;
5 1. 36E-05 5. 01E-05 NRCAM;DNM3;PCDH NRCAM;DNM3;PCDHB9;NLGN1;CDH2
5 1. 36E-05 5. 01E-05 EDN1;SLC9A8;ATP(EDN1;SLC9A8;ATP6V1B1;SLC9A9;SLC9A7
5 1. 36E-05 5. 01E-05 NDC80;ZWINT;DDX NDC80;ZWINT;DDX11;KIFC1;ESPL1
4 1. 42E-05 5. 20E-05 CTNNB1;ECE1;LRP(CTNNB1;ECE1;LRP5;CHST11
4 1. 42E-05 5. 20E-05 AKR1C1;ACOX2;NPC(AKR1C1;ACOX2;NPC1;LEP
4 1. 42E-05 5. 20E-05 TGM2;HOXA3;AGT;TGM2;HOXA3;AGT;SEMA3C
4 1. 42E-05 5. 20E-05 CFB;C3;CFH;C5 CFB;C3;FHL1;C5
4 1. 42E-05 5. 20E-05 EFN1;SMO;SEMA3(EFN1;SMO;SEMA3C;ATF2
4 1. 42E-05 5. 20E-05 CHD7;BCOR;MEN1;CHD7;BCOR;MEN1;TGFB2
4 1. 42E-05 5. 20E-05 ROBO2;PLXNB2;TI(ROBO2;PLXNB2;TIAM1;PLXNB1
4 1. 42E-05 5. 20E-05 EGR2;CAMK2A;EPH EGR2;CAMK2A;EPHB2;DBN1
4 1. 42E-05 5. 20E-05 CCNB2;STAT5B;CA(CCNB2;STAT5B;CASP3;BCL2L11
5 1. 60E-05 5. 78E-05 EDN1;ELN;HNMT;CEDN1;ELN;HNMT;CHST11;EDNRA
5 1. 60E-05 5. 78E-05 FGF18;FGFR2;FGF FGF18;FGFR2;FGF1;FGFR3;FGFR1
6 1. 65E-05 5. 94E-05 CHRDL1;UBE2D3;ZICHRDL1;UBE2D3;ZFYVE16;BMPR1B;SMAD1;RGMB
6 1. 65E-05 5. 94E-05 SIX1;PPARG;KRT4 SIX1;PPARG;KRT4;CBFA2T2;DLX6;KRT3
4 1. 88E-05 6. 68E-05 EDN1;NF1;PIK3R1 EDN1;NF1;PIK3R1;IGF1
4 1. 88E-05 6. 68E-05 THBS1;SAMD4A;BCI THBS1;SAMD4A;BCL3;HGF
4 1. 88E-05 6. 68E-05 BAIAP2;BAIAP2L1 BAIAP2;BAIAP2L1;DNM3;FGD6
4 1. 88E-05 6. 68E-05 CHD7;HEXA;KCNMA CHD7;HEXA;KCNMA1;UCHL1
4 1. 88E-05 6. 68E-05 HMOX1;IL6ST;IL6 HMOX1;IL6ST;HGF;MAPK8IP2
4 1. 88E-05 6. 68E-05 HEXB;STAT5B;HEX/HEXB;STAT5B;HEXA;CAV1
4 1. 88E-05 6. 68E-05 PRAF2;SLC25A22;PRAF2;SLC25A22;SLC25A12;SLC1A3
5 1. 88E-05 6. 68E-05 ATG4B;ATG16L2;R(ATG4B;ATG16L2;RAB24;ATG4C;ATG12
5 1. 88E-05 6. 68E-05 DRD4;TSHR;HOXB8 DRD4;TSHR;HOXB8;ATF2;ATXN1
6 2. 06E-05 7. 28E-05 C1GALT1;RRM2B;AIC1GALT1;RRM2B;ADAMTS1;AGT;PCSK5;BCL2L11
3 2. 16E-05 7. 52E-05 CDH4;NGF;MAPT CDH4;NGF;MAPT
3 2. 16E-05 7. 52E-05 TG;FOXO1;DIO2 TG;TTF2;DIO2
3 2. 16E-05 7. 52E-05 APOB;PLA2G2A;AG APOB;PLA2G2A;AGT
3 2. 16E-05 7. 52E-05 FLNB;TLN1;TLN2 FLNB;TLN1;TLN2

3 2. 16E-05 7. 52E-05 PLA1A;LIPC;SERI PLA1A;LIPC;SERINC5
3 2. 16E-05 7. 52E-05 PTPRF;PTPRD;PTPI PTPRF;PTPRD;PTPRU
3 2. 16E-05 7. 52E-05 CXCL16;SP100;CAI CXCL16;SP100;CALCOCO2
3 2. 16E-05 7. 52E-05 ERO1L;ERO1LB;TXI ERO1L;ERO1LB;TXNDC2
3 2. 16E-05 7. 52E-05 GUSB;FUCA1;LYVE GUSB;FUCA1;LYVE1
3 2. 16E-05 7. 52E-05 MSH6;MSH2;HTT MSH6;MSH2;HTT
3 2. 16E-05 7. 52E-05 APBB2;APBB1;BCL(APBB2;APBB1;BCL6
4 2. 44E-05 8. 31E-05 CTNNB1;S100A4;S(CTNNB1;S100A4;SOX9;HGF
4 2. 44E-05 8. 31E-05 CDKN2A;SOD1;DFFI CDKN2A;SOD1;DFFB;CASP3
4 2. 44E-05 8. 31E-05 NF1;PDE1B;HTT;A NF1;PDE1B;HTT;ATXN1
4 2. 44E-05 8. 31E-05 MGEA5;ADAMTS9;FIMGEA5;ADAMTS9;FBX02;MANBA
7 2. 63E-05 8. 91E-05 CA2;CA12;CA5B;SI CA2;CA12;CA5B;SHMT1;CA9;AHCYL2;ALDH1L1
7 2. 84E-05 9. 62E-05 SHPRH;HMGB2;MCM SHPRH;HMGB2;CCNL1;CENPA;NPM1;MCM2;HP1BP3;H2AF
7 3. 07E-05 1. 03E-04 PDCD11;CDKN2A;HIPDCD11;CDKN2A;HEATR1;EXOSC10;UTP14A;EIF4A3;UT
7 3. 07E-05 1. 03E-04 SIX1;UNC45A;FLNI SIX1;SMAP1;FLNB;SVIL;UNC45A;MYL6B;FXR1;CAV1
4 3. 11E-05 1. 04E-04 CDKN1A;CDK2;DDX CDKN1A;CDK2;DDX11;CDKN2B
4 3. 11E-05 1. 04E-04 VCAM1;CDH4;CADM VCAM1;CDH4;CADM3;CDH2
4 3. 11E-05 1. 04E-04 PIP5K1A;PIP4K2B PIP5K1A;PIP4K2B;PIP5KL1;PIP5K1C
4 3. 11E-05 1. 04E-04 TESK2;ACTN1;SORI TESK2;ACTN1;SORBS1;DLC1
11 3. 53E-05 1. 17E-04 MYO15A;CHD7;GNA MYO15A;CHD7;GNAO1;SLC6A3;HEXB;SOD1;SEPP1;HEXA
7 3. 57E-05 1. 19E-04 STARD5;TRERF1;H(STARD5;TRERF1;HSD11B1;HSD17B7;PRLR;CYP19A1;SC
3 3. 75E-05 1. 23E-04 PGAP1;PIGU;PGAP BST1;GAB1;PGAP1;PIGS
3 3. 75E-05 1. 23E-04 SDHA;STAT5B;GHR SDHA;STAT5B;GHR
3 3. 75E-05 1. 23E-04 SOCS2;PIK3R1;GHI SOCS2;PIK3R1;GHR
3 3. 75E-05 1. 23E-04 LPIN1;ARFIP2;RA(LPIN1;ARFIP2;RAC1
3 3. 75E-05 1. 23E-04 BBS5;ARL6;BBS4 BBS5;ARL6;BBS4
3 3. 75E-05 1. 23E-04 SHMT1;PPAT;GART SHMT1;PPAT;GART
3 3. 75E-05 1. 23E-04 STAT5B;PC;GHR STAT5B;PC;GHR
3 3. 75E-05 1. 23E-04 MOCS2;MOCS2;MOC MOCS2;MOCS2;MOCS1
3 3. 75E-05 1. 23E-04 ISCU;ISCA2;ISCA ISCU;ISCA2;ISCA1
5 3. 90E-05 1. 26E-04 ERAP1;SOCS7;TCF ERAP1;SOCS7;TCF7L2;TCF4;RUNX1T1;BBS4
4 3. 91E-05 1. 26E-04 EIF2AK3;ERO1L;DI EIF2AK3;ERO1L;DERL1;DDIT3
4 3. 91E-05 1. 26E-04 NBN;LIG4;MSH6;M(NBN;LIG4;MSH6;MSH2
6 4. 56E-05 1. 47E-04 S100B;ADCY8;EGR S100B;ADCY3;EGR2;TMOD2;FZD3;BDNF
4 4. 85E-05 1. 55E-04 THBS1;ERAP1;BTG THBS1;ERAP1;BTG1;SPHK1
4 4. 85E-05 1. 55E-04 CAMK2D;MYL3;MAP CAMK2D;MYL3;MAP2K3;TNC
4 5. 94E-05 1. 88E-04 JAG1;IGF1;CSRP2 JAG1;IGF1;CSRP2;MBNL1
4 5. 94E-05 1. 88E-04 TLE1;FRZB;MDFI;I TLE1;FRZB;MDFI;DKK1
4 5. 94E-05 1. 88E-04 ERCC4;XPC;RPA3;I RAD1;XPC;RPA3;ERCC3
3 5. 95E-05 1. 88E-04 CSGALNACT1;SLC3(CSGALNACT1;SLC35D1;CHST11
3 5. 95E-05 1. 88E-04 ALOX15B;XDH;STA ALOX15B;XDH;STAT5B
3 5. 95E-05 1. 88E-04 SMG5;SMG7;SMG6 SMG5;SMG7;SMG6
3 5. 95E-05 1. 88E-04 GULP1;ELM01;DOCI GULP1;ELM01;DOCK1
3 5. 95E-05 1. 88E-04 CDKN2A;CDKN2A;PI CDKN2A;CDKN2A;PRKCD
3 5. 95E-05 1. 88E-04 DRD4;DDIT3;HPRT DRD4;DDIT3;HPRT1
3 5. 95E-05 1. 88E-04 IL6ST;IL6;OSMR IL6ST;HGF;OSMR
3 5. 95E-05 1. 88E-04 RNF144B;LNX1;NEI RNF144B;LNX1;NEDD4
3 5. 95E-05 1. 88E-04 VPS13A;RAB9B;SOI VPS13A;RAB9B;SORT1
3 5. 95E-05 1. 88E-04 HPRT1;HTT;BBS4 HPRT1;HTT;BBS4
3 5. 95E-05 1. 88E-04 NEDD4;HTT;CLDN4 NEDD4;HTT;CLDN4
12 6. 39E-05 1. 99E-04 KSR1;NGF;NTRK1;I KSR1;NGF;NTRK1;MAPKAPK3;NF1;RALGDS;MAPK13;HGF
5 6. 49E-05 2. 02E-04 ATP6V1B1;ATP6V0I ATP6V1B1;ATP6V0E2;ATP5A1;ATP6V1H;ATP6V0D1

5 6. 49E-05 2. 02E-04 FASTK; CASP8; DAP1; FASTK; CASP8; DAP3; CFLAR; SORT1
6 6. 51E-05 2. 03E-04 EIF2B4; EIF4E3; EIF2B4; EIF4E3; EIF1AY; DENR; EIF1AX; EIF4E
4 7. 20E-05 2. 23E-04 HMOX1; CIDEB; MSH6; HMOX1; CIDEB; MSH6; TP73
4 7. 20E-05 2. 23E-04 CPS1; NOD2; PLCG2; CPS1; NOD2; PLCG2; ADH5
4 7. 20E-05 2. 23E-04 PARP3; ART4; PARP1; PARP3; DOK1; PARP1; TIPARP
6 8. 37E-05 2. 58E-04 TNFRSF19; TNIK; TNFRSF19; TNIK; DUSP10; MAP3K13; MAP4K2; MAP2K4
6 8. 37E-05 2. 58E-04 PDPK1; CDKN2A; PYIPDK1; CDKN2A; POP1; PKIG; PRKAG2; PKIB
4 8. 64E-05 2. 65E-04 EDN1; TGFA; NUSAP1; EDN1; TGFA; NUSAP1; IGF1
4 8. 64E-05 2. 65E-04 APOB; SORD; CTTNBP2; APOB; SORD; CTTNBP2; MET
4 8. 64E-05 2. 65E-04 LARGE; CHST6; GNPI; LARGE; CHST6; GPI; NAGK
4 8. 64E-05 2. 65E-04 CHD7; MYH10; BMPR1B; CHD7; MYH10; BMPR1B; PRPH
3 8. 86E-05 2. 68E-04 CTNNA1; TLR3; PIK3R1; CTNNA1; TLR3; PIK3R1
3 8. 86E-05 2. 68E-04 AKR1C1; LDLR; CELSR3; AKR1C1; LDLR; FAP
3 8. 86E-05 2. 68E-04 EDN1; AAMP; AGT; EDN1; AAMP; AGT
3 8. 86E-05 2. 68E-04 SMAD3; MEN1; PTH1R; SMAD3; MEN1; PTH1R
3 8. 86E-05 2. 68E-04 EPHX2; HMOX1; CPS1; EPHX2; HMOX1; CPS1
3 8. 86E-05 2. 68E-04 HPD; FAH; PTS; HPD; FAH; PTS
3 8. 86E-05 2. 68E-04 GSK3; SORBS1; AKT2; GSK3; SORBS1; AKT2
3 8. 86E-05 2. 68E-04 CDKN2A; PYDC1; NOX1; CDKN2A; POP1; NOD2
3 8. 86E-05 2. 68E-04 POLD3; POLA1; POLIP; POLD3; POLA1; POLE
3 8. 86E-05 2. 68E-04 PPARG; ITGB3; NR1H3; PPARG; ITGB3; NR1H3
3 8. 86E-05 2. 68E-04 MXI1; MDM1; NFKB1; MXI1; MDM1; LST1
4 1. 03E-04 3. 04E-04 ADM; ADCY3; ADCY8; ADM; ADCY3; ADCY3; ADCY2
4 1. 03E-04 3. 04E-04 SLC39A8; SLC39A1; SLC39A8; SLC39A10; SLC39A5; SLC30A8
2 1. 07E-04 3. 04E-04 CTNNA1; CEP250; CTNNA1; CEP250
2 1. 07E-04 3. 04E-04 NRG1; HOPX; NRG1; HOPX
2 1. 07E-04 3. 04E-04 SLC47A1; SLC47A2; SLC47A1; SLC47A2
2 1. 07E-04 3. 04E-04 THBS1; REN1; THBS1; ATP6AP2
2 1. 07E-04 3. 04E-04 APOBEC3G; APOBEC3; APOBEC3G; APOBEC3F
2 1. 07E-04 3. 04E-04 APOBEC3G; APOBEC3; APOBEC3G; APOBEC3F
2 1. 07E-04 3. 04E-04 APOBEC3G; APOBEC3; APOBEC3G; APOBEC3F
2 1. 07E-04 3. 04E-04 APOL2; MEN1; APOL3; MEN1; APOL2
2 1. 07E-04 3. 04E-04 SOCS5; BCL6; SOCS5; BCL6
2 1. 07E-04 3. 04E-04 SHROOM2; SHROOM3; SHROOM2; SHROOM3
2 1. 07E-04 3. 04E-04 SLC25A15; SLC25A1; ORC1; ORC2
2 1. 07E-04 3. 04E-04 HMOX1; BCL6; HMOX1; BCL6
2 1. 07E-04 3. 04E-04 SLC38A1; SLC38A1; SAT1; SLC38A1; NAT1
2 1. 07E-04 3. 04E-04 CENPE; DLGAP5; CENPE; DLGAP5
2 1. 07E-04 3. 04E-04 MET; HGF; MET; HGF
2 1. 07E-04 3. 04E-04 GSTM3; AGT; GSTM3; AGT
2 1. 07E-04 3. 04E-04 PCNA; POLG; PCNA; MDP1
2 1. 07E-04 3. 04E-04 BCL3; NFKB2; BCL3; NFKB2
2 1. 07E-04 3. 04E-04 RRM2B; POLG; RRM2B; MDP1
2 1. 07E-04 3. 04E-04 MEN1; SMAD1; MEN1; SMAD1
2 1. 07E-04 3. 04E-04 POLG2; GARS; POLB; SMAD1
2 1. 07E-04 3. 04E-04 CARS2; CARS; CARS2; CARS
2 1. 07E-04 3. 04E-04 DLGAP5; ESPL1; DLGAP5; ESPL1
2 1. 07E-04 3. 04E-04 TPST1; TPST2; TPST1; TPST2
4 1. 21E-04 3. 32E-04 GPX3; SOD1; GSR; MGST1; GPX3; SOD1; GSR; MGST1
4 1. 21E-04 3. 32E-04 MAP1B; BDNF; LST1; MAP1B; BDNF; LST1; BBS4
3 1. 26E-04 3. 38E-04 PRKCZ; PRKCD; ENPP1; PRKCZ; PRKCD; ENPP1
3 1. 26E-04 3. 38E-04 ZIC1; GLI1; PTCH1; ZIC1; GLI1; PTCH1

3 1. 26E-04 3. 38E-04 NLGN4X;DRD4;HTT NLGN4X;DRD4;HTT
3 1. 26E-04 3. 38E-04 INTS6;INTS7;INTS10 INTS6;INTS7;INTS10
3 1. 26E-04 3. 38E-04 SIX1;HOXA3;FOXE SIX1;HOXA3;TTF2
3 1. 26E-04 3. 38E-04 GGT7;GGTLC2;GGT2 GGT7;GGTLC2;GGT2
3 1. 26E-04 3. 38E-04 SLC25A15;CPS1;H ORC1;CPS1;HTT
3 1. 26E-04 3. 38E-04 CDKN2A;PIK3R1;B CDKN2A;PIK3R1;BCL6
3 1. 26E-04 3. 38E-04 STAT5B;TN13B_HU STAT5B;TNFSF13B;CDH13
5 1. 26E-04 3. 38E-04 RUNX2;NF1;SMO;GI RUNX2;NF1;SMO;GLI1;SP7
9 1. 28E-04 3. 43E-04 FGF13;MAP2K5;LRI FGF13;MAP2K5;LRRK2;MEN1;FGFR3;RAPGEF2;FGFR1;S
15 1. 30E-04 3. 48E-04 PTGS2;CAPZB;CALI PTGS2;CAPZB;CALD1;CD97;MAPK8;ARFIP2;FPR1;MSH2
5 1. 40E-04 3. 73E-04 ARFGEF3;PSD3;GBI KIAA1244;PSD3;GBF1;PSD4;ARFGEF1
7 1. 41E-04 3. 77E-04 SLC4A8;SLC4A7;SI SLC4A8;SLC4A7;SLC4A4;SLC4A2;SLC4A5;SLC
16 1. 42E-04 3. 78E-04 PDCD11;DDX54;PAI PDCD11;DDX54;PABPC4;RBM5;MRPL44;POP1;RBM6;EXO
7 1. 58E-04 4. 21E-04 HOOK2;TUBG1;CEP HOOK2;TUBG1;CEP120;MAPT;RNF19A;BBS4;TTL
4 1. 66E-04 4. 40E-04 CTNNB1;PDGFRA;SI CTNNB1;PDGFRA;SMO;LEF1
3 1. 71E-04 4. 50E-04 CTNNB1;TCF7L2;P CTNNB1;TCF7L2;PTPRU;TCF4
3 1. 71E-04 4. 50E-04 SYNJ1;ITSN1;AMPI SYNJ1;ITSN1;AMPH
3 1. 71E-04 4. 50E-04 DDX54;ESR1;ESR2 DDX54;ESR1;ESR2
3 1. 71E-04 4. 50E-04 HIPK3;PDPK1;TGFI HIPK3;PDK1;TGFB2
3 1. 71E-04 4. 50E-04 ATG4B;ATG4C;ATG ATG4B;ATG4C;ATG12
3 1. 71E-04 4. 50E-04 LARGE;ALDOA;SOD LARGE;ALDOA;SOD1
3 1. 71E-04 4. 50E-04 CHD7;MYH10;SCUBI CHD7;MYH10;SCUBE1
3 1. 71E-04 4. 50E-04 MFSD9;S22AI_HUM MFSD9;SLC22A18;PPP2CB
3 1. 71E-04 4. 50E-04 TNS3;HS6ST1;HOP TNS3;HS6ST1;HOPX
3 1. 71E-04 4. 50E-04 BCKDHA;COL1A1;A BCKDHA;COL1A1;AGT;TMEM91
3 1. 71E-04 4. 50E-04 CD4;STAT5B;GLMN CD4;STAT5B;FAP
4 1. 92E-04 5. 00E-04 SOX9;NR5A1;MSH2 SOX9;SF1;MSH2;AR
5 2. 05E-04 5. 32E-04 ATXN3;BRCA2;MMS ATXN3;BRCA2;MMS19;NEIL3;OGG1
5 2. 05E-04 5. 32E-04 CDKN3;PTEN;BCCII CDKN3;PTEN;BCCIP;CDKN2B;CDC6
4 2. 21E-04 5. 72E-04 RCAN1;COL1A1;MGI RCAN1;COL1A1;MGP;TGFB2
4 2. 21E-04 5. 72E-04 UBE2C;NDC80;ZWI UBE2C;NDC80;ZWINT;RANBP1
4 2. 21E-04 5. 72E-04 NBN;RAD1;MLTK;R NBN;RAD1;ZAK;RAD17
3 2. 27E-04 5. 85E-04 CDKN1A;TN13B_HU CDKN1A;TNFSF13B;BCL6
3 2. 27E-04 5. 85E-04 TNFSF15;TLR3;TR TNFSF15;TLR3;TRAF2
3 2. 27E-04 5. 85E-04 NPLOC4;DERL1;FB NPLOC4;DERL1;FBXO2
3 2. 27E-04 5. 85E-04 LIG4;BRCA2;MSH2 LIG4;BRCA2;MSH2
5 2. 45E-04 6. 29E-04 CTNNB1;HES1;PPAI CTNNB1;HES1;PPARG;PTH1R;KCNMA1
5 2. 45E-04 6. 29E-04 SERPINE1;HMOX1;I SERPINE1;HMOX1;HTATIP2;NF1;HGF
11 2. 46E-04 6. 31E-04 FN1;ITGB1BP1;SHI FN1;ITGB1BP1;SHROOM2;TNS3;LAMB2;BTG1;PSG1;PLX
4 2. 52E-04 6. 46E-04 SORBS3;AGT;IL6;I SORBS3;AGT;HGF;LIF
4 2. 52E-04 6. 46E-04 BCL3;POLA2;TNPO BCL3;POLA2;TNPO1;BCL6
4 2. 88E-04 7. 33E-04 AKR1C1;NQO1;EPH AKR1C1;NQO1;EPHX2;FM04
4 2. 88E-04 7. 33E-04 NQO1;EPHX2;CES1 NQO1;EPHX2;CES2;FAS
4 2. 88E-04 7. 33E-04 ALDH3A2;NGF;NF1 ALDH3A2;NGF;NF1;SP110
4 2. 88E-04 7. 33E-04 HS6ST1;PPARG;LEI HS6ST1;PPARG;LEF1;SOD1
3 2. 92E-04 7. 39E-04 EPHX2;OXTR;ADH5 EPHX2;OXTR;ADH5
3 2. 92E-04 7. 39E-04 CD81;WWP2;WWP1 CD81;WWP2;WWP1
3 2. 92E-04 7. 39E-04 ADAM9;MAP3K13;MI ADAM9;MAP3K13;ZAK
3 2. 92E-04 7. 39E-04 NPC1;SOAT1;ABCA NPC1;ACAT1;ABCA1
3 2. 92E-04 7. 39E-04 FPR1;GUCY1B3;AG FPR1;GUCY1B3;AGT
3 2. 92E-04 7. 39E-04 CD74;CD4;CD1D CD74;CD4;CD1D
3 2. 92E-04 7. 39E-04 PTK2B;NCK1;MAPK PTK2B;NCK1;MAPK8IP2

| | | | | |
|----|----------|-----------|------------------|---|
| 3 | 2.92E-04 | 7.39E-04 | SORBS1;PIK3R1;AI | SORBS1;PIK3R1;AKT2 |
| 3 | 2.92E-04 | 7.39E-04 | TTK;SMC3;KIF11 | TTK;SMC3;KIF11 |
| 5 | 3.16E-04 | 7.58E-04 | CHRM2;GRK5;FPR1 | CHRM2;GRK5;FPR1;CRHR1;ADRA1A |
| 2 | 3.19E-04 | 7.58E-04 | NTRK2;BBS4 | NTRK2;BBS4 |
| 2 | 3.19E-04 | 7.58E-04 | CSGALNACT1;EXT2 | CSGALNACT1;EXT2 |
| 2 | 3.19E-04 | 7.58E-04 | FGF18;COL13A1 | FGF18;COL13A1 |
| 2 | 3.19E-04 | 7.58E-04 | COL1A2;COL1A1 | COL1A2;COL1A1 |
| 2 | 3.19E-04 | 7.58E-04 | PPP2R4;DLC1 | PPP2R4;DLC1 |
| 2 | 3.19E-04 | 7.58E-04 | LYST;BCL3 | LYST;BCL3 |
| 2 | 3.19E-04 | 7.58E-04 | ADAM9;HBEGF | ADAM9;HBEGF |
| 2 | 3.19E-04 | 7.58E-04 | TARSL2;TARS | TARSL2;TARS |
| 2 | 3.19E-04 | 7.58E-04 | SCIN;ARPC4;ARPC4 | SCIN;TTLL3;ARPC4 |
| 2 | 3.19E-04 | 7.58E-04 | DRD4;FLNA | DRD4;FLNA |
| 2 | 3.19E-04 | 7.58E-04 | SLC6A3;MAOA | SLC6A3;MAOA |
| 2 | 3.19E-04 | 7.58E-04 | NR5A1;STAT5B | SF1;STAT5B |
| 2 | 3.19E-04 | 7.58E-04 | NPAS2;KCNMA1 | NPAS2;KCNMA1 |
| 2 | 3.19E-04 | 7.58E-04 | HMGB2;HMGB1 | HMGB2;HMGB1 |
| 2 | 3.19E-04 | 7.58E-04 | CENPE;CDCA5 | CENPE;CDCA5 |
| 2 | 3.19E-04 | 7.58E-04 | CENPE;CENPF | CENPE;CENPF |
| 2 | 3.19E-04 | 7.58E-04 | TBP;GTF2A2 | TBP;GTF2A2 |
| 2 | 3.19E-04 | 7.58E-04 | EPHA2;TIAM1 | EPHA2;TIAM1 |
| 2 | 3.19E-04 | 7.58E-04 | SMO;GLI1 | SMO;GLI1 |
| 2 | 3.19E-04 | 7.58E-04 | TUBG1;ESPL1 | TUBG1;ESPL1 |
| 2 | 3.19E-04 | 7.58E-04 | TLX1;HOXA3 | TLX1;HOXA3 |
| 2 | 3.19E-04 | 7.58E-04 | THRB;GDF5 | THRB;GDF5 |
| 2 | 3.19E-04 | 7.58E-04 | SOD1;KCNMA1 | SOD1;KCNMA1 |
| 2 | 3.19E-04 | 7.58E-04 | PTPRU;FLNA | PTPRU;FLNA |
| 2 | 3.19E-04 | 7.58E-04 | NUSAP1;ESPL1 | NUSAP1;ESPL1 |
| 2 | 3.19E-04 | 7.58E-04 | PRLR;GHR | PRLR;GHR |
| 2 | 3.19E-04 | 7.58E-04 | STAT5B;GHR | STAT5B;GHR |
| 2 | 3.19E-04 | 7.58E-04 | STAT5B;GHR | STAT5B;GHR |
| 2 | 3.19E-04 | 7.58E-04 | MSH6;MSH2 | MSH6;MSH2 |
| 2 | 3.19E-04 | 7.58E-04 | HOPX;TGFB2 | HOPX;TGFB2 |
| 2 | 3.19E-04 | 7.58E-04 | SPTBN1;TGFB2 | SPTBN1;TGFB2 |
| 11 | 3.29E-04 | 7.64E-04 | CTNNB1;NRCAM;COI | CTNNB1;NRCAM;COL14A1;EGFR;CD44;PKP2;NPHP1;CYF |
| 7 | 3.64E-04 | 8.46E-04 | STC1;EPHX2;DRD4 | STC1;EPHX2;DRD4;HEXB;PTH1R;CAV1;CXCL12 |
| 4 | 3.68E-04 | 8.50E-04 | MOXD1;SULT1A1;SI | MOXD1;SULT1A1;SULT1A2;MAOA |
| 4 | 3.68E-04 | 8.50E-04 | PRPSAP1;NME5;HPI | PRPSAP1;NME5;HPRT1;PPAT |
| 3 | 3.69E-04 | 8.50E-04 | BMPER;CHRD;FSTL | BMPER;CHRD;FSTL3 |
| 3 | 3.69E-04 | 8.50E-04 | DNMT3A;DMAP1;HEM | DNMT3A;DMAP1;HEMK1 |
| 3 | 3.69E-04 | 8.50E-04 | JAG1;HOXB5;SCUB | JAG1;HOXB5;SCUBE1 |
| 3 | 3.69E-04 | 8.50E-04 | CXCL16;SPHK1;NOI | CXCL16;SPHK1;NOL8 |
| 3 | 3.69E-04 | 8.50E-04 | AQP3;MICB;TIE1 | AQP3;MICB;TIE1 |
| 3 | 3.69E-04 | 8.50E-04 | DBNL;CDH13;ELMO | DBNL;CDH13;ELMO1 |
| 3 | 3.69E-04 | 8.50E-04 | PLA2G2A;NOD2;IL | PLA2G2A;NOD2;HGF |
| 5 | 3.72E-04 | 8.50E-04 | CD46;OVGP1;GNPD | CD46;OVGP1;GPI;LCN6;DNALI1 |
| 4 | 4.13E-04 | 9.43E-04 | APOB;LDLR;CAV1;I | APOB;LDLR;CAV1;LIPC |
| 4 | 4.13E-04 | 9.43E-04 | GSN;ARPC4;ARHGAI | GSN;TTLL3;ARHGAP6;RAC1;ARPC4 |
| 4 | 4.13E-04 | 9.43E-04 | PRKAR2B;DLG4;AMI | PRKAR2B;DLG4;AMPH;EPHB2 |
| 3 | 4.58E-04 | 0.0010395 | PCSK1;SCG5;PCSK | PCSK1;SCG5;PCSK7 |
| 3 | 4.58E-04 | 0.0010395 | THBS1;MEN1;CDKN | THBS1;MEN1;CDKN2B |
| 3 | 4.58E-04 | 0.0010395 | EIF2AK3;IL6;CLU | EIF2AK3;HGF;CLU |

3 4. 58E-04 0. 0010395 HMGCS1;HMGCR;FDI HMGCS1;HMGCR;FDFT1
3 4. 58E-04 0. 0010395 POLA1;DDX11;CDK;POLA1;DDX11;CDK2AP1
3 4. 58E-04 0. 0010395 TNNC1;TPM2;TNNT;TNC;TPM2;TNNT3
4 4. 63E-04 0. 0010453 KNTC1;ZWINT;RAD;KNTC1;ZWINT;RAD17;ZWILCH
10 4. 80E-04 0. 0010831 TBX20;SOX9;TRIM;TBX20;SOX9;TRIM66;RBPJ;BCOR;ZBTB16;TP63;CBFA2
5 5. 04E-04 0. 0011363 CDKN2A;RAD1;MLT;CDKN2A;RAD1;ZAK;XPC;ERCC3
4 5. 17E-04 0. 0011628 S100P;PTEN;S100;S100P;PTEN;S100A2;CDH13
4 5. 17E-04 0. 0011628 NR1D1;TIMELESS;INR1D1;TIMELESS;KCNMA1;ARNTL
7 5. 27E-04 0. 0011858 SLC2A9;SLC2A5;S;SLC2A9;SLC2A5;SLC2A12;SLC2A14;SLC2A3;SLC2A13;
24 5. 45E-04 0. 0012232 CSGALNACT1;TPD5;CSGALNACT1;TPD52;FBN2;EYA4;FGF18;CORIN;SFRP5;
3 5. 60E-04 0. 0012536 HES1;PITX1;GLI1 HES1;PITX1;GLI1
3 5. 60E-04 0. 0012536 PRKAA2;PRKAG2;C;PRKAA2;PRKAG2;CHKB
3 5. 60E-04 0. 0012536 KRT4;PLA2G2A;CD;KRT4;PLA2G2A;CDKN2B
4 5. 74E-04 0. 0012836 ADCY8;PRKAR2B;G;ADCY3;PRKAR2B;GNAS;KDM3A
2 6. 33E-04 0. 0013395 SLC14A1;SLC14A2 SLC14A1;SLC14A2
2 6. 33E-04 0. 0013395 EDN1;DRD4 EDN1;DRD4
2 6. 33E-04 0. 0013395 EDN1;EDNRA EDN1;EDNRA
2 6. 33E-04 0. 0013395 RCAN1;PRDM6 RCAN1;PRDM6
2 6. 33E-04 0. 0013395 THBS1;CDH13 THBS1;CDH13
2 6. 33E-04 0. 0013395 THBS1;AKT2 THBS1;AKT2
2 6. 33E-04 0. 0013395 THBS1;NOD2 THBS1;NOD2
2 6. 33E-04 0. 0013395 SMAD3;SMAD1 SMAD3;SMAD1
2 6. 33E-04 0. 0013395 NUA2;ASNS NUA2;ASNS
2 6. 33E-04 0. 0013395 APOBEC3G;APOBEC;APOBEC3G;APOBEC3F
2 6. 33E-04 0. 0013395 UBR5;NEDD4 UBR5;NEDD4
2 6. 33E-04 0. 0013395 EIF2AK3;HTT EIF2AK3;HTT
2 6. 33E-04 0. 0013395 JAG1;TP63 JAG1;TP63
2 6. 33E-04 0. 0013395 GSN;SCIN GSN;SCIN
2 6. 33E-04 0. 0013395 NGF;PCSK5 NGF;PCSK5
2 6. 33E-04 0. 0013395 PITX1;TCF7L2;TCI;PITX1;TCF7L2;TCF4
2 6. 33E-04 0. 0013395 CDKN2A;CASP3 CDKN2A;CASP3
2 6. 33E-04 0. 0013395 ALDOA;ALDOC ALDOA;ALDOC
2 6. 33E-04 0. 0013395 RRM2;RRM2B RRM2;RRM2B
2 6. 33E-04 0. 0013395 MYH10;NUSAP1 MYH10;NUSAP1
2 6. 33E-04 0. 0013395 SEMA3A;PDGFA SEMA3A;PDGFA
2 6. 33E-04 0. 0013395 NLRP12;ENPP1 NLRP12;ENPP1
2 6. 33E-04 0. 0013395 DYNC1I1;HTT DYNC1I1;HTT
2 6. 33E-04 0. 0013395 STAT5B;GHR STAT5B;GHR
2 6. 33E-04 0. 0013395 STAT5B;LCK STAT5B;LCK
2 6. 33E-04 0. 0013395 ARHGAP6;DLC1 ARHGAP6;DLC1
2 6. 33E-04 0. 0013395 MSH2;XPC MSH2;XPC
2 6. 33E-04 0. 0013395 TBX1;CHST11 TBX1;CHST11
2 6. 33E-04 0. 0013395 RAC1;RAC2 RAC1;RAC2
2 6. 33E-04 0. 0013395 SYCP2;STAG3 SCP2;STAG3
2 6. 33E-04 0. 0013395 SLC36A1;SLC38A3 SLC36A1;NAT1
2 6. 33E-04 0. 0013395 SLC23A2;SLC23A1 SLC23A2;SLC23A2
4 6. 37E-04 0. 0013395 EIF2AK3;CAMK2G;I;EIF2AK3;CAMK2G;HTT;SLC30A8
3 6. 74E-04 0. 0014136 EIF2AK3;PIK3R1;(EIF2AK3;PIK3R1;GHR
3 6. 74E-04 0. 0014136 POFUT2;FUCA1;B3;POFUT2;FUCA1;B3GALTL
3 6. 74E-04 0. 0014136 NF1;CEP120;BBS4 NF1;CEP120;BBS4
4 7. 76E-04 0. 0016196 POLS;NBN;SOD1;M;POLK;NBN;SOD1;MSH2
3 8. 03E-04 0. 0016711 EDN1;EGFR;HRH1 EDN1;EGFR;HRH1

3 8. 03E-04 0. 0016711 TBX20;BBS5;BBS4 TBX20;BBS5;BBS4
3 8. 03E-04 0. 0016711 TAPBP;GBF1;COG3 TAPBP;GBF1;COG3
4 8. 52E-04 0. 0017679 ANLN;ROCK2;AURKI ANLN;ROCK2;AIM1;ESPL1
5 9. 30E-04 0. 0019255 BST1;TREM1;GPI; BST1;TREM1;GPI;YTHDF2;HGF
4 9. 35E-04 0. 0019342 BDKRB2;SMTN;ADR/ BDKRB2;SMTN;ADRA1A;EDNRA
3 9. 46E-04 0. 001955 CTNNB1;XDH;PTH1I CTNNB1;XDH;PTH1R
3 9. 46E-04 0. 001955 ALOX15B;LTA4H;R ALOX15B;LTA4H;RNPEP
4 0. 001022 0. 0020745 NDUFA10;NDUFS7; NDUFA10;NDUFS7;NDUFV3;NDUFB2
2 0. 0010474 0. 0020745 NTRK2;BDNF NTRK2;BDNF
2 0. 0010474 0. 0020745 PPARGC1A;GCK PPARGC1A;GK
2 0. 0010474 0. 0020745 EDN1;ECE1 EDN1;ECE1
2 0. 0010474 0. 0020745 ST3GAL6;NMT2 ST3GAL6;NMT2
2 0. 0010474 0. 0020745 THBS1;F12 THBS1;F12
2 0. 0010474 0. 0020745 HPD;FAH HPD;FAH
2 0. 0010474 0. 0020745 AS3MT;CPOX AS3MT;CPOX
2 0. 0010474 0. 0020745 APOB;LDLR APOB;LDLR
2 0. 0010474 0. 0020745 APOB;SOAT1 APOB;ACAT1
2 0. 0010474 0. 0020745 JAG1;LAMA1 JAG1;LAMA1
2 0. 0010474 0. 0020745 PCSK2;F12 PCSK2;F12
2 0. 0010474 0. 0020745 GTSE1;CENPF GTSE1;CENPF
2 0. 0010474 0. 0020745 TFPI;F7 TFPI;F7
2 0. 0010474 0. 0020745 MFSD9;S22AI_HUM/ MFSD9;SLC22A18
2 0. 0010474 0. 0020745 TP53I3;CASP3 TP53I3;CASP3
2 0. 0010474 0. 0020745 HMOX1;CDKN2B HMOX1;CDKN2B
2 0. 0010474 0. 0020745 NPC1;PRNP NPC1;PRNP
2 0. 0010474 0. 0020745 RORA;RORA;RORA; RORA;ROR1;ROR2;AGTPBP1
2 0. 0010474 0. 0020745 AGRN;FLNA AGRN;FLNA
2 0. 0010474 0. 0020745 GINS1;BRCA2 GINS1;BRCA2
2 0. 0010474 0. 0020745 SF1;SLU7 SF1;SLU7
2 0. 0010474 0. 0020745 PILRB;PRLR PILRB;PRLR
2 0. 0010474 0. 0020745 CTTNBP2;MAPT CTTNBP2;MAPT
2 0. 0010474 0. 0020745 KCNH1;ADAM12 KCNH1;ADAM12
2 0. 0010474 0. 0020745 LEF1;HTT LEF1;HTT
2 0. 0010474 0. 0020745 HUWE1;SUZ12 HUWE1;SUZ12
2 0. 0010474 0. 0020745 LIG4;TRC2L_HUMAN LIG4;LOC100133315
2 0. 0010474 0. 0020745 SP100;BRCA2 SP100;BRCA2
2 0. 0010474 0. 0020745 PABPC1;GDNF PABPC1;ATF2
2 0. 0010474 0. 0020745 BRCA2;BCL3 BRCA2;BCL3
2 0. 0010474 0. 0020745 PLA2G2A;LIPC PLA2G2A;LIPC
2 0. 0010474 0. 0020745 SOD1;UCP2 SOD1;UCP2
2 0. 0010474 0. 0020745 SOD1;BBS4 SOD1;BBS4
2 0. 0010474 0. 0020745 NOD2;TLR3 NOD2;TLR3
2 0. 0010474 0. 0020745 AGT;NR1H3 AGT;NR1H3
2 0. 0010474 0. 0020745 STAT5B;GHR STAT5B;GHR
2 0. 0010474 0. 0020745 STAT5B;GHR STAT5B;GHR
2 0. 0010474 0. 0020745 STAT5B;GHR STAT5B;GHR
2 0. 0010474 0. 0020745 TLN1;ITGB3 TLN1;ITGB3
2 0. 0010474 0. 0020745 TRPC1;KCNMA1 TRPC1;KCNMA1
2 0. 0010474 0. 0020745 ADH1B;ADH5 ADH1C;ADH5
2 0. 0010474 0. 0020745 HPRT1;HOXB8 HPRT1;HOXB8
2 0. 0010474 0. 0020745 CDK2;CDC6 CDK2;CDC6
2 0. 0010474 0. 0020745 SLC19A2;SLC19A3 SLC19A2;SLC19A3

7 0. 0010658 0. 0020745 NRG1;SMAD3;MAP3K1;NRG1;SMAD3;MAP3K1;NF1;MIA3;PDGFA;TGFB2
3 0. 0011045 0. 0021361 RGS4;RGS3;CAV1 RGS4;RGS3;CAV1
3 0. 0011045 0. 0021361 IGF2BP1;EIF2AK3 IGF2BP1;EIF2AK3;EIF4A3
3 0. 0011045 0. 0021361 GYS1;GBE1;AGL GYS1;GBE1;AGL
4 0. 0012138 0. 0023362 PHGDH;CBS;ADI1;PGD;CBS;ADI1;ASNS
6 0. 0012567 0. 0024171 GNL2;RCL1;RNASEH1;GNL2;RCL1;DROSHA;EBNA1BP2;BYSL;SDAD1
3 0. 0012787 0. 0024556 IL21R;NCR1;ULBP1 IL21R;NCR1;ULBP1
3 0. 0012787 0. 0024556 GNAS;TSHR;PTH1R GNAS;TSHR;PTH1R
3 0. 0012787 0. 0024556 ATM;RAD51L1;RAD51B;RAD51C ATM;RAD51B;RAD51C
6 0. 0013741 0. 002635 COL1A2;ADAM9;MAP3K1;ARRB2;GDF5;LTBP2 COL1A2;ADAM9;MAP3K1;ARRB2;GDF5;LTBP2
4 0. 0014295 0. 0027392 HOXC10;APP;AGTPBP1;UCHL1 HOXC10;APP;AGTPBP1;UCHL1
3 0. 0014692 0. 002809 EDN1;NRG1;SOX9 EDN1;NRG1;SOX9
3 0. 0014692 0. 002809 LCP1;SHROOM2;ADD2 LCP1;SHROOM2;ADD2
3 0. 0014692 0. 002809 AASS;SHMT1;SBF2 AASS;SHMT1;SBF2
3 0. 0014692 0. 002809 CLDN1;CLDN4;CLDN12 CLDN1;CLDN4;CLDN12
4 0. 0015468 0. 0029289 EPS15;ZFYVE16;CAV1;SORT1 EPS15;ZFYVE16;CAV1;SORT1
2 0. 0015602 0. 0029289 NTRK2;DBN1 NTRK2;DBN1
2 0. 0015602 0. 0029289 VEGFA;THBS1 VEGFA;THBS1
2 0. 0015602 0. 0029289 NRCAM;SEMA3A NRCAM;SEMA3A
2 0. 0015602 0. 0029289 PRKCZ;PRKCD PRKCZ;PRKCD
2 0. 0015602 0. 0029289 HK2;GCK HK2;GCK
2 0. 0015602 0. 0029289 DCT;SLC45A2 DCT;SLC45A2
2 0. 0015602 0. 0029289 APOBEC3G;APOBEC3F APOBEC3G;APOBEC3F
2 0. 0015602 0. 0029289 APOB;SEC14L2 APOB;SEC14L2
2 0. 0015602 0. 0029289 GPD2;GK GPD2;GK
2 0. 0015602 0. 0029289 ECE1;TMOD2 ECE1;TMOD2
2 0. 0015602 0. 0029289 MAP3K1;NCK1 MAP3K1;NCK1
2 0. 0015602 0. 0029289 ADCY3;SCP2 ADCY3;SCP2
2 0. 0015602 0. 0029289 DRD4;SLC6A3 DRD4;SLC6A3
2 0. 0015602 0. 0029289 ZFYVE16;NEDD4 ZFYVE16;NEDD4
2 0. 0015602 0. 0029289 ABCA4;PDE6B ABCA4;PDE6B
2 0. 0015602 0. 0029289 NF1;BDNF NF1;BDNF
2 0. 0015602 0. 0029289 ZDHHC15;ZDHHC2 ZDHHC15;ZDHHC2
2 0. 0015602 0. 0029289 RRM2;RRM2B RRM2;RRM2B
2 0. 0015602 0. 0029289 ATP6V0E2;ATP6V1H ATP6V0E2;ATP6V1H
2 0. 0015602 0. 0029289 LIG4;PLA2G2A LIG4;PLA2G2A
2 0. 0015602 0. 0029289 BRCA2;PDE3A BRCA2;PDE3A
2 0. 0015602 0. 0029289 HOXA3;TBX1 HOXA3;TBX1
2 0. 0015602 0. 0029289 SOD1;PRNP SOD1;PRNP
2 0. 0015602 0. 0029289 SRP54;SRP19 SRP54;SRP19
2 0. 0015602 0. 0029289 PANK1;PPAT PANK1;PPAT
2 0. 0015602 0. 0029289 RBL1;RBL2 RBL1;RBL2
27 0. 0016518 0. 0030519 EGFR;AKR1B1;TNIK;EGFR;AKR1B1;TNIK;DUSP10;MAP4K1;NDRG4;MAPKAPK3
3 0. 0016766 0. 0030901 ATG4B;ATG4C;SDCBP ATG4B;ATG4C;SDCBP
3 0. 0016766 0. 0030901 MAP3K1;CDKN2A;DAP3 MAP3K1;CDKN2A;DAP3
3 0. 0016766 0. 0030901 ROBO2;RARB;BDNF ROBO2;RARB;BDNF
3 0. 0016766 0. 0030901 IL6ST;LIFR;OSMR IL6ST;LIFR;OSMR
3 0. 0016766 0. 0030901 TDG;NEIL3;OGG1 TDG;NEIL3;OGG1
4 0. 0018011 0. 0033111 ELMOD3;ELMO2;MEGF10;CDC42SE1 ELMOD3;ELMO2;MEGF10;CDC42SE1
3 0. 0019014 0. 0034833 CHRM2;CNN1;CAV1 CHRM2;CNN1;CAV1
3 0. 0019014 0. 0034833 HHIP;ARTN;FZD3 HHIP;ARTN;FZD3
3 0. 0019014 0. 0034833 CROCC;PCM1;BBS4 CROCC;PCM1;BBS4

3 0. 0019014 0. 0034833 SOCS2;STAT5B;GHI SOCS2;STAT5B;GHR
3 0. 0019014 0. 0034833 LDLR;GALNT7;GAL1 LDLR;GALNT7;GALNT9
3 0. 0019014 0. 0034833 MYO6;MYH10;MYO5;MYO6;MYH10;MYO5A
3 0. 0019014 0. 0034833 LIG4;CD4;BANF1 LIG4;CD4;BANF1
3 0. 0019014 0. 0034833 PBX1;NR3C1;DMRT/PBX1;NR3C1;DMRTA1
5 0. 0019519 0. 0035618 PPARGC1A;AKR1C1 PPARGC1A;AKR1C1;CYP39A1;CA11;TFF3
5 0. 0019519 0. 0035618 STAG2;MEI1;NBN;STAG2;MEI1;NBN;SMC3;STAG3
8 0. 0019614 0. 0035754 COL1A2;GJA5;CHD7 COL1A2;GJA5;CHD7;COL1A1;TCF7L2;AGT;EGFL7;TCF4
4 0. 0020829 0. 0037942 IFT172;DYNC2H1;IFT172;DYNC2H1;PTCH1;MAP2
3 0. 0021442 0. 0038711 SLC6A3;SLC6A2;SLC6A3;NET1;HTT;NAT1
2 0. 0021693 0. 0038711 CTNNB1;MDFI CTNNB1;MDFI
2 0. 0021693 0. 0038711 VEGFA;FGF18 VEGFA;FGF18
2 0. 0021693 0. 0038711 LDLRAP1;HIP1 LDLRAP1;HIP1
2 0. 0021693 0. 0038711 LGMN;PTCH1 LGMN;PTCH1
2 0. 0021693 0. 0038711 CTNND2;NINJ2 CTNND2;NINJ2
2 0. 0021693 0. 0038711 P2RY6;CTTNBP2 P2RY6;CTTNBP2
2 0. 0021693 0. 0038711 MICA;MICB MICA;MICB
2 0. 0021693 0. 0038711 ADAM9;CXCL16 ADAM9;CXCL16
2 0. 0021693 0. 0038711 RAB3A;ADH5 RAB3A;ADH5
2 0. 0021693 0. 0038711 ITIH5;ITIH4 ITIH5;ITIH4
2 0. 0021693 0. 0038711 HMOX1;TLR3 HMOX1;TLR3
2 0. 0021693 0. 0038711 NDUFS7;OXA1L NDUFS7;OXA1L
2 0. 0021693 0. 0038711 BARD1;NEDD4 BARD1;NEDD4
2 0. 0021693 0. 0038711 ARRB2;NEDD4 ARRB2;NEDD4
2 0. 0021693 0. 0038711 BRCA2;RAD51C BRCA2;RAD51C
2 0. 0021693 0. 0038711 RAD1;SYCP2 RAD1;SCP2
2 0. 0021693 0. 0038711 HMGXB4;SORT1 HMGXB4;SORT1
2 0. 0021693 0. 0038711 PNPLA3;GPAM PNPLA3;GPAM
2 0. 0021693 0. 0038711 NOD2;IL6 NOD2;HGF
2 0. 0021693 0. 0038711 AGT;NEDD4 AGT;NEDD4
2 0. 0021693 0. 0038711 CRHR1;MAFF CRHR1;MAFF
2 0. 0021693 0. 0038711 TN13B_HUMAN;CAS1 TNFSF13B;CASP3
2 0. 0021693 0. 0038711 NR3C1;LEP NR3C1;LEP
2 0. 0021693 0. 0038711 NR3C1;NEDD4 NR3C1;NEDD4
2 0. 0021693 0. 0038711 IL6;LIF HGF;LIF
2 0. 0021693 0. 0038711 DMGDH;SARDH DMGDH;SARDH
2 0. 0021693 0. 0038711 RAC1;RAC2 RAC1;RAC2
2 0. 0021693 0. 0038711 COG3;BBS4 COG3;BBS4
2 0. 0021693 0. 0038711 RAD17;CDC6 RAD17;CDC6
4 0. 0022347 0. 0039213 SKT;COL1A1;HOXC6 KIAA1217;COL1A1;HOXC6;PCSK5
3 0. 0024053 0. 004215 CNN1;LIMCH1;TRPM7 CNN1;LIMCH1;TRPM7
3 0. 0024053 0. 004215 GMNN;RAD17;CDC6 GMNN;RAD17;CDC6
3 0. 0026852 0. 0046944 MDM2;PSMD1;XPO1 MDM2;RPN2;XPO1;PSMD1
3 0. 0026852 0. 0046944 SNUPN;GEMIN7;NCI SNUPN;GEMIN7;NCBP2
2 0. 0028726 0. 0049476 TGM2;EDN1 TGM2;EDN1
2 0. 0028726 0. 0049476 ALOX15B;AR ALOX15B;AR
2 0. 0028726 0. 0049476 EDN1;SPHK1 EDN1;SPHK1
2 0. 0028726 0. 0049476 EGFR;OXA1L EGFR;OXA1L
2 0. 0028726 0. 0049476 SMAD3;SMAD1 SMAD3;SMAD1
2 0. 0028726 0. 0049476 APOB;PPARG APOB;PPARG
2 0. 0028726 0. 0049476 BDKRB2;DRD4 BDKRB2;DRD4
2 0. 0028726 0. 0049476 GCK;TCF7L2;TCF71GK;TCF7L2;TCF4

2 0. 0028726 0. 0049476 LYST;SHROOM2 LYST;SHROOM2
2 0. 0028726 0. 0049476 SHROOM2;SHROOM3 SHROOM2;SHROOM3
2 0. 0028726 0. 0049476 RPN2;TUSC3 RPN2;TUSC3
2 0. 0028726 0. 0049476 EGR2;PMP22 EGR2;SP110
2 0. 0028726 0. 0049476 POLS;SMC3 POLK;SMC3
2 0. 0028726 0. 0049476 NBN;SMARCA4 NBN;SMARCA4
2 0. 0028726 0. 0049476 LIG4;BANF1 LIG4;BANF1
2 0. 0028726 0. 0049476 BRCA2;BBS4 BRCA2;BBS4
2 0. 0028726 0. 0049476 UBE2B;MSH2 UBE2B;MSH2
2 0. 0028726 0. 0049476 MSH2;XPC MSH2;XPC
2 0. 0028726 0. 0049476 UCHL1;LEP UCHL1;LEP
11 0. 0029448 0. 0050373 NRG1;NRG2;NOTCH NRG1;NRG2;NOTCH3;TPI1;LSR;ATP5A1;MEN1;PDGFA;E
3 0. 0029844 0. 0050967 EPHX2;NGF;HOXB8 EPHX2;NGF;HOXB8
3 0. 0029844 0. 0050967 EGR2;LEP;SORT1 EGR2;LEP;SORT1
3 0. 0029844 0. 0050967 TOPBP1;NHEJ1;ATM TOPBP1;NHEJ1;ATM
4 0. 0031086 0. 0052964 MEST;IKZF3;HCK; MEST;IKZF3;HCK;TIE1
4 0. 0031086 0. 0052964 SIRPG;CD4;LCK;TI SIRPG;CD4;LCK;TRAF2
3 0. 0033033 0. 0056191 SMAD3;NR4A3;EXT2 SMAD3;NR4A3;EXT2
4 0. 0035152 0. 0059696 NR4A3;MET;GRM7;NR4A3;MET;GRM7;BBS4
3 0. 0036423 0. 0060947 SF1;DDX1;SRPK2 SF1;DDX1;SRPK2
3 0. 0036423 0. 0060947 IL6;CD40;PLSCR1 HGF;CD40;PLSCR1
2 0. 003668 0. 0060947 EDN1;PRKRA EDN1;PRKRA
2 0. 003668 0. 0060947 TBX20;GJA5 TBX20;GJA5
2 0. 003668 0. 0060947 EIF2AK3;DDIT3 EIF2AK3;DDIT3
2 0. 003668 0. 0060947 APOB;NF1 APOB;NF1
2 0. 003668 0. 0060947 MGAT4B;MGAT4A MGAT4B;MGAT4A
2 0. 003668 0. 0060947 CSTF2;CSTF3 CSTF2;CSTF3
2 0. 003668 0. 0060947 NAMPT;NADSYN1 NAMPT;NADSYN1
2 0. 003668 0. 0060947 ADAM9;SH3D19 ADAM9;EBP
2 0. 003668 0. 0060947 KCNMB4;KCNIP1 KCNMB4;KCNIP1
2 0. 003668 0. 0060947 EGR2;ETV4 EGR2;ETV4
2 0. 003668 0. 0060947 NTAL_HUMAN;LCK LAT2;LCK
2 0. 003668 0. 0060947 ABCA1;APOM ABCA1;APOM
2 0. 003668 0. 0060947 KCNH1;MMS19 KCNH1;MMS19
2 0. 003668 0. 0060947 LASS4;LASS5 CERS4;CERS5
2 0. 003668 0. 0060947 BCL3;NFKB2 BCL3;NFKB2
2 0. 003668 0. 0060947 NPM1;EIF2A NPM1;EIF2A
2 0. 003668 0. 0060947 NOD2;CD1D NOD2;CD1D
2 0. 003668 0. 0060947 STAT5B;GHR STAT5B;GHR
2 0. 003668 0. 0060947 VPS33A;BCL2L11 VPS33A;BCL2L11
2 0. 003668 0. 0060947 ABCB9;TAP2 ABCB9;TAP2
2 0. 003668 0. 0060947 EHMT1;SUZ12 EHMT1;SUZ12
2 0. 003668 0. 0060947 PRNP;APP PRNP;APP
2 0. 003668 0. 0060947 GHR;IGF1 GHR;IGF1
11 0. 0036903 0. 0060947 PPARG;NFATC2;KDM PPARG;NFATC2;KDM3A;BCL3;MEN1;DDIT3;KLF5;ETV4;
8 0. 0037398 0. 0061724 CTNNB1;NOTCH4;J/ CTNNB1;NOTCH3;JAG1;KIRREL3;MEN1;LCK;NOTCH4;EB
3 0. 0040018 0. 0065964 CTNNB1;NOTCH4;J/ CTNNB1;NOTCH3;JAG1;NOTCH4
5 0. 0041179 0. 0067792 LAMA3;LAMA4;LAM/ LAMA3;LAMA3;LAMA2;LAMA4;STAT5B;LAMA1
5 0. 0042939 0. 0070643 MICA;LYST;STAB1 MICA;LYST;STAB1;BCL3;TLR3
3 0. 004382 0. 0072049 CTNNB1;NF1;COL8/ CTNNB1;NF1;COL8A1
8 0. 0045491 0. 0074185 TKT;SOCS5;DMAP1 TKT;SOCS5;DMAP1;SOCS7;SOCS7;EPC1;ING3;NRP2
2 0. 0045536 0. 0074185 VEGFA;MIA3 VEGFA;MIA3

| | | | | | | |
|----|----|---------|----|---------|------------------|---|
| 2 | 0. | 0045536 | 0. | 0074185 | MOXD1;FRRS1 | MOXD1;FRRS1 |
| 2 | 0. | 0045536 | 0. | 0074185 | NRG1;ACADM | NRG1;ACADM |
| 2 | 0. | 0045536 | 0. | 0074185 | SMAD3;MEN1 | SMAD3;MEN1 |
| 2 | 0. | 0045536 | 0. | 0074185 | SIX1;FGF1 | SIX1;FGF1 |
| 2 | 0. | 0045536 | 0. | 0074185 | TPI1;H6PD | TPI1;H6PD |
| 2 | 0. | 0045536 | 0. | 0074185 | DRD4;GRM7 | DRD4;GRM7 |
| 2 | 0. | 0045536 | 0. | 0074185 | RORA;CD74;RORA;I | RORA;CD74;ROR1;ROR2 |
| 2 | 0. | 0045536 | 0. | 0074185 | NF1;CAV1 | NF1;CAV1 |
| 2 | 0. | 0045536 | 0. | 0074185 | LRRK2;NHLRC1 | LRRK2;EPM2A |
| 2 | 0. | 0045536 | 0. | 0074185 | CD4;CDH13 | CD4;CDH13 |
| 2 | 0. | 0045536 | 0. | 0074185 | TNNT3;HOMER1 | TNNT3;HOMER1 |
| 2 | 0. | 0045536 | 0. | 0074185 | SOS1;SORT1 | HGF;SORT1 |
| 6 | 0. | 0047764 | 0. | 0077084 | SYNJ1;MTMR1;SYN | SYNJ1;MTMR1;SYNJ2;MTMR11;CDKN3;SBF2 |
| 6 | 0. | 0047764 | 0. | 0077084 | LYN;MMS19;AGXT;I | LYN;MMS19;AGT;RERG;MGP;FHL2 |
| 3 | 0. | 0047835 | 0. | 0077103 | DRD4;GRM7;GABBR | DRD4;GRM7;GABBR1 |
| 19 | 0. | 0047915 | 0. | 0077161 | DBC1;ITPR1;SYNE | DBC1;ITPR1;SYNE1;HMOX1;CACNA1A;ADCK3;ATXN3;TB |
| 6 | 0. | 0049326 | 0. | 0079383 | S100B;BAIAP2;RAI | S100B;BAIAP2;RAB3A;APBB1;NTNG2;PIP5K1C |
| 5 | 0. | 0052547 | 0. | 0084434 | ALDOA;ARHGAP6;PI | ALDOA;ARHGAP6;PLS3;NCK1;DBN1 |
| 2 | 0. | 0055275 | 0. | 0088133 | VEGFA;CDH13 | VEGFA;CDH13 |
| 2 | 0. | 0055275 | 0. | 0088133 | SMAD3;FLNA | SMAD3;FLNA |
| 2 | 0. | 0055275 | 0. | 0088133 | RIMS1;RAB3A | RIMS1;RAB3A |
| 2 | 0. | 0055275 | 0. | 0088133 | HES1;SMAD1 | HES1;SMAD1 |
| 2 | 0. | 0055275 | 0. | 0088133 | ALDH1A3;RARB | ALDH1A3;RARB |
| 2 | 0. | 0055275 | 0. | 0088133 | CELSR2;HPRT1 | CELSR2;HPRT1 |
| 2 | 0. | 0055275 | 0. | 0088133 | BRCA2;BCL3 | BRCA2;BCL3 |
| 2 | 0. | 0055275 | 0. | 0088133 | NME6;NME5 | NME6;NME5 |
| 2 | 0. | 0055275 | 0. | 0088133 | NME6;NME5 | NME6;NME5 |
| 2 | 0. | 0055275 | 0. | 0088133 | AGT;SOS1 | AGT;HGF |
| 2 | 0. | 0055275 | 0. | 0088133 | MDM4;FLNA | MDM4;FLNA |
| 2 | 0. | 0055275 | 0. | 0088133 | DNAJB6;NR4A1 | DNAJB6;NR4A1 |
| 2 | 0. | 0055275 | 0. | 0088133 | ITGB3;NR1H3 | ITGB3;NR1H3 |
| 2 | 0. | 0055275 | 0. | 0088133 | FABP3;CHKB | FABP3;CHKB |
| 3 | 0. | 0061178 | 0. | 0096888 | PYGL;PPARG;TCF71 | PYGL;PPARG;TCF7L2;TCF4 |
| 4 | 0. | 0064061 | 0. | 0101391 | TUBG2;TUBA4A;TUI | TUBG2;TUBA4A;TUBG1;TUBD1 |
| 2 | 0. | 0065876 | 0. | 010366 | PPARGC1A;GPX2 | PPARGC1A;GPX2 |
| 2 | 0. | 0065876 | 0. | 010366 | EGFR;EDNRA | EGFR;EDNRA |
| 2 | 0. | 0065876 | 0. | 010366 | RYR1;LCK | RYR1;LCK |
| 2 | 0. | 0065876 | 0. | 010366 | ENTPD3;ENPP1 | ENTPD3;ENPP1 |
| 2 | 0. | 0065876 | 0. | 010366 | JAG1;KCNMA1 | JAG1;KCNMA1 |
| 2 | 0. | 0065876 | 0. | 010366 | ANLN;KNTC1 | ANLN;KNTC1 |
| 2 | 0. | 0065876 | 0. | 010366 | SLC25A10;SLC1A3 | SLC25A10;SLC1A3 |
| 2 | 0. | 0065876 | 0. | 010366 | SMO;GLI1 | SMO;GLI1 |
| 2 | 0. | 0065876 | 0. | 010366 | BCL3;IL18BP | BCL3;IL18BP |
| 2 | 0. | 0065876 | 0. | 010366 | NME6;NME5 | NME6;NME5 |
| 2 | 0. | 0065876 | 0. | 010366 | TP63;TP73 | TP63;TP73 |
| 3 | 0. | 0076533 | 0. | 0119591 | COL1A2;BCOR;LAMI | COL1A2;BCOR;LAMB1 |
| 2 | 0. | 0077322 | 0. | 0120242 | NRCAM;TTL | NRCAM;TTL |
| 2 | 0. | 0077322 | 0. | 0120242 | SIX1;AGT | SIX1;AGT |
| 2 | 0. | 0077322 | 0. | 0120242 | RERE;IPO5 | RERE;IPO5 |
| 2 | 0. | 0077322 | 0. | 0120242 | NR5A1;LEP | SF1;LEP |
| 2 | 0. | 0077322 | 0. | 0120242 | NBN;CDKN2B | NBN;CDKN2B |
| 2 | 0. | 0077322 | 0. | 0120242 | SOD1;NOX4 | SOD1;NOX4 |

| | | | | | | |
|---|----|---------|----|---------|------------------|------------------------------|
| 2 | 0. | 0077322 | 0. | 0120242 | SOD1;BCL2L11 | SOD1;BCL2L11 |
| 2 | 0. | 0077322 | 0. | 0120242 | SOD1;HTT | SOD1;HTT |
| 2 | 0. | 0077322 | 0. | 0120242 | NOD2;TLR3 | NOD2;TLR3 |
| 2 | 0. | 0077322 | 0. | 0120242 | AGT;ACADM | AGT;ACADM |
| 2 | 0. | 0077322 | 0. | 0120242 | SLC6A4;SLC1A3 | HTT;SLC1A3 |
| 2 | 0. | 0077322 | 0. | 0120242 | FAS;CASP3 | FAS;CASP3 |
| 3 | 0. | 0082109 | 0. | 0124472 | CDKN1A;FOSL1;CDI | CDKN1A;FOSL1;CDKN2B |
| 3 | 0. | 0087918 | 0. | 0124472 | MGAT5;MGAT1;LIP | (MGAT5;MGAT1;LIPC |
| 2 | 0. | 0089593 | 0. | 0124472 | CP;HEPH | CP;HEPH |
| 2 | 0. | 0089593 | 0. | 0124472 | EDN1;LIF | EDN1;LIF |
| 2 | 0. | 0089593 | 0. | 0124472 | SPAM1;ATP8B3;SP | /HYAL1;ATP8B3;HYAL3 |
| 2 | 0. | 0089593 | 0. | 0124472 | AMPD3;AMPD2 | AMPD3;AMPD2 |
| 2 | 0. | 0089593 | 0. | 0124472 | TRRAP;PCAF | TRRAP;KAT2B |
| 2 | 0. | 0089593 | 0. | 0124472 | DRD4;SERGEF | DRD4;SERGEF |
| 2 | 0. | 0089593 | 0. | 0124472 | GNAO1;HTT | GNAO1;HTT |
| 2 | 0. | 0089593 | 0. | 0124472 | ZFPM2;PTEN | ZFPM2;PTEN |
| 2 | 0. | 0089593 | 0. | 0124472 | CYP21A2;PBX1 | CPS1;PBX1 |
| 2 | 0. | 0089593 | 0. | 0124472 | TAF1;MAP3K11 | TAF1;MAP3K11 |
| 2 | 0. | 0089593 | 0. | 0124472 | RARRES2;ADH5 | RARRES2;ADH5 |
| 2 | 0. | 0089593 | 0. | 0124472 | CDH13;RAC1 | CDH13;RAC1 |
| 4 | 0. | 0092859 | 0. | 0124472 | APOL2;APOL3;APOI | APOL3;APOL3;APOL1;APOM;APOL2 |
| 4 | 0. | 0092859 | 0. | 0124472 | P2RY6;AGT;HRH1;I | P2RY6;AGT;HRH1;PTH1R |
| 5 | 0. | 009339 | 0. | 0124472 | ADSSL1;MSH2;HPR | ADSSL1;MSH2;HPRT1;PPAT;GART |
| 3 | 0. | 0093962 | 0. | 0124472 | CEP290;SMAD1;SM | CEP290;SMAD1;SMARCA4 |
| 4 | 0. | 0096961 | 0. | 0124472 | SIX1;NGF;CDK5RAI | SIX1;NGF;CDK5RAP2;NLGN1 |
| 4 | 0. | 0096961 | 0. | 0124472 | PFKL;RRM2;MAP3K | PFKL;RRM2;MAP3K11;NOD2 |
| 3 | 0. | 0100243 | 0. | 0124472 | EFNB1;SIM2;SMAD | EFNB1;SIM2;SMAD1 |
| 3 | 0. | 0100243 | 0. | 0124472 | CTTNBP2;COL1A1;I | CTTNBP2;COL1A1;EIF2B4 |
| 2 | 0. | 0102672 | 0. | 0124472 | NRCAM;BDNF | NRCAM;BDNF |
| 2 | 0. | 0102672 | 0. | 0124472 | NQO1;CHRNE | NQO1;CHRNE |
| 2 | 0. | 0102672 | 0. | 0124472 | RIMS1;GARS | RIMS1;SMAD1 |
| 2 | 0. | 0102672 | 0. | 0124472 | GPX3;PXDN | GPX3;PXDN |
| 2 | 0. | 0102672 | 0. | 0124472 | CHD7;SLC1A3 | CHD7;SLC1A3 |
| 2 | 0. | 0102672 | 0. | 0124472 | AGRN;A4GALT | AGRN;A4GALT |
| 2 | 0. | 0102672 | 0. | 0124472 | SLC26A1;SLC26A6 | SAT1;SLC26A6 |
| 2 | 0. | 0102672 | 0. | 0124472 | MYL3;TNNT3 | MYL3;TNNT3 |
| 2 | 0. | 0102672 | 0. | 0124472 | RNASEN;XPO5 | DROSHA;XPO5 |
| 2 | 0. | 0102672 | 0. | 0124472 | BDNF;NTM | BDNF;NTM |
| 2 | 0. | 0102672 | 0. | 0124472 | OXR1;NCOA7 | OXR1;NCOA7 |
| 1 | 0. | 0103422 | 0. | 0124472 | CTNNB1 | CTNNB1 |
| 1 | 0. | 0103422 | 0. | 0124472 | CTNNB1 | CTNNB1 |
| 1 | 0. | 0103422 | 0. | 0124472 | NTRK2 | NTRK2 |
| 1 | 0. | 0103422 | 0. | 0124472 | PPARGC1A | PPARGC1A |
| 1 | 0. | 0103422 | 0. | 0124472 | CA2 | CA2 |
| 1 | 0. | 0103422 | 0. | 0124472 | EDN1 | EDN1 |
| 1 | 0. | 0103422 | 0. | 0124472 | EDN1 | EDN1 |
| 1 | 0. | 0103422 | 0. | 0124472 | TNFRSF11B | TNFRSF11B |
| 1 | 0. | 0103422 | 0. | 0124472 | PTGS2 | PTGS2 |
| 1 | 0. | 0103422 | 0. | 0124472 | AK5 | AK5 |
| 1 | 0. | 0103422 | 0. | 0124472 | AK5 | AK5 |
| 1 | 0. | 0103422 | 0. | 0124472 | SLC2A5 | SLC2A5 |
| 1 | 0. | 0103422 | 0. | 0124472 | NOTCH4;NOTCH4 | NOTCH3;NOTCH4 |

| | |
|----------------------------------|----------|
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 THBS1 | THBS1 |
| 1 0. 0103422 0. 0124472 EPHX2 | EPHX2 |
| 1 0. 0103422 0. 0124472 EPHX2 | EPHX2 |
| 1 0. 0103422 0. 0124472 AS3MT | AS3MT |
| 1 0. 0103422 0. 0124472 ANO1 | ANO1 |
| 1 0. 0103422 0. 0124472 EYA2 | EYA2 |
| 1 0. 0103422 0. 0124472 AMPD3 | AMPD3 |
| 1 0. 0103422 0. 0124472 SOX9 | SOX9 |
| 1 0. 0103422 0. 0124472 MICA | MICA |
| 1 0. 0103422 0. 0124472 FMN2 | FMN2 |
| 1 0. 0103422 0. 0124472 FMN2 | FMN2 |
| 1 0. 0103422 0. 0124472 HES1 | HES1 |
| 1 0. 0103422 0. 0124472 HES1 | HES1 |
| 1 0. 0103422 0. 0124472 PCSK2 | PCSK2 |
| 1 0. 0103422 0. 0124472 PCSK2 | PCSK2 |
| 1 0. 0103422 0. 0124472 CD81 | CD81 |
| 1 0. 0103422 0. 0124472 SIX1 | SIX1 |
| 1 0. 0103422 0. 0124472 GCK | GK |
| 1 0. 0103422 0. 0124472 SERPINE1 | SERPINE1 |
| 1 0. 0103422 0. 0124472 ADAM9 | ADAM9 |
| 1 0. 0103422 0. 0124472 ECE1 | ECE1 |
| 1 0. 0103422 0. 0124472 ECE1 | ECE1 |
| 1 0. 0103422 0. 0124472 SHROOM2 | SHROOM2 |
| 1 0. 0103422 0. 0124472 TOP2A | TOP2A |
| 1 0. 0103422 0. 0124472 CHST6 | CHST6 |
| 1 0. 0103422 0. 0124472 XDH | XDH |
| 1 0. 0103422 0. 0124472 SCIN | SCIN |
| 1 0. 0103422 0. 0124472 CHD7 | CHD7 |
| 1 0. 0103422 0. 0124472 RAB3A | RAB3A |
| 1 0. 0103422 0. 0124472 RAB3A | RAB3A |
| 1 0. 0103422 0. 0124472 RAB3A | RAB3A |
| 1 0. 0103422 0. 0124472 RAB3A | RAB3A |
| 1 0. 0103422 0. 0124472 RAB3A | RAB3A |
| 1 0. 0103422 0. 0124472 PITX1 | PITX1 |
| 1 0. 0103422 0. 0124472 TPI1 | TPI1 |
| 1 0. 0103422 0. 0124472 HMOX1 | HMOX1 |
| 1 0. 0103422 0. 0124472 HMOX1 | HMOX1 |
| 1 0. 0103422 0. 0124472 TYMS | TYMS |
| 1 0. 0103422 0. 0124472 TYMS | TYMS |
| 1 0. 0103422 0. 0124472 NPC1 | NPC1 |
| 1 0. 0103422 0. 0124472 AASS | AASS |
| 1 0. 0103422 0. 0124472 SORD | SORD |
| 1 0. 0103422 0. 0124472 SORD | SORD |
| 1 0. 0103422 0. 0124472 SORD | SORD |
| 1 0. 0103422 0. 0124472 SORD | SORD |
| 1 0. 0103422 0. 0124472 PLOD1 | PLOD1 |
| 1 0. 0103422 0. 0124472 CHR1 | CHR1 |
| 1 0. 0103422 0. 0124472 CHR1 | CHR1 |

| | |
|-----------------------------------|----------|
| 1 0. 0103422 0. 0124472 LAMA2 | LAMA2 |
| 1 0. 0103422 0. 0124472 EGR2 | EGR2 |
| 1 0. 0103422 0. 0124472 EGR2 | EGR2 |
| 1 0. 0103422 0. 0124472 NR4A3 | NR4A3 |
| 1 0. 0103422 0. 0124472 NR4A3 | NR4A3 |
| 1 0. 0103422 0. 0124472 ABCA4 | ABCA4 |
| 1 0. 0103422 0. 0124472 NF1 | NF1 |
| 1 0. 0103422 0. 0124472 LAMB2 | LAMB2 |
| 1 0. 0103422 0. 0124472 LAMC1 | LAMB2 |
| 1 0. 0103422 0. 0124472 ESR1 | ESR1 |
| 1 0. 0103422 0. 0124472 GALC | GALC |
| 1 0. 0103422 0. 0124472 SMOX;SMOX | SMOX;SMO |
| 1 0. 0103422 0. 0124472 BARD1 | BARD1 |
| 1 0. 0103422 0. 0124472 MAPK8 | MAPK8 |
| 1 0. 0103422 0. 0124472 EEA1 | EEA1 |
| 1 0. 0103422 0. 0124472 TAPBP | TAPBP |
| 1 0. 0103422 0. 0124472 FN3K | FN3K |
| 1 0. 0103422 0. 0124472 ALDH1A3 | ALDH1A3 |
| 1 0. 0103422 0. 0124472 ALDH1A3 | ALDH1A3 |
| 1 0. 0103422 0. 0124472 CELSR2 | CELSR2 |
| 1 0. 0103422 0. 0124472 HEXB | HEXB |
| 1 0. 0103422 0. 0124472 BTG1 | BTG1 |
| 1 0. 0103422 0. 0124472 OFD1 | OFD1 |
| 1 0. 0103422 0. 0124472 BCOR | BCOR |
| 1 0. 0103422 0. 0124472 SLC6A6 | SLC6A6 |
| 1 0. 0103422 0. 0124472 SLC6A6 | SLC6A6 |
| 1 0. 0103422 0. 0124472 DPYD | DPYD |
| 1 0. 0103422 0. 0124472 DPYD | DPYD |
| 1 0. 0103422 0. 0124472 CEP290 | CEP290 |
| 1 0. 0103422 0. 0124472 STXBP1 | STXBP1 |
| 1 0. 0103422 0. 0124472 SHMT1 | SHMT1 |
| 1 0. 0103422 0. 0124472 IFRD1 | IFRD1 |
| 1 0. 0103422 0. 0124472 LIG4 | LIG4 |
| 1 0. 0103422 0. 0124472 LIG4 | LIG4 |
| 1 0. 0103422 0. 0124472 SP100 | SP100 |
| 1 0. 0103422 0. 0124472 MYH10 | MYH10 |
| 1 0. 0103422 0. 0124472 MYH10 | MYH10 |
| 1 0. 0103422 0. 0124472 MYH10 | MYH10 |
| 1 0. 0103422 0. 0124472 KDM3A | KDM3A |
| 1 0. 0103422 0. 0124472 KDM3A | KDM3A |
| 1 0. 0103422 0. 0124472 NLRP12 | NLRP12 |
| 1 0. 0103422 0. 0124472 NLRP12 | NLRP12 |
| 1 0. 0103422 0. 0124472 BRCA2 | BRCA2 |
| 1 0. 0103422 0. 0124472 BRCA2 | BRCA2 |
| 1 0. 0103422 0. 0124472 POLA1 | POLA1 |
| 1 0. 0103422 0. 0124472 POLA1 | POLA1 |
| 1 0. 0103422 0. 0124472 BCL3 | BCL3 |
| 1 0. 0103422 0. 0124472 POP1 | POP1 |
| 1 0. 0103422 0. 0124472 POP1 | POP1 |
| 1 0. 0103422 0. 0124472 SLC13A5 | SLC13A5 |
| 1 0. 0103422 0. 0124472 CD01 | CD01 |
| 1 0. 0103422 0. 0124472 CD01 | CD01 |

| | |
|---------------------------------|---------|
| 1 0. 0103422 0. 0124472 UNC13B | UNC13B |
| 1 0. 0103422 0. 0124472 NCBP2 | NCBP2 |
| 1 0. 0103422 0. 0124472 CD4 | CD4 |
| 1 0. 0103422 0. 0124472 SGSM3 | SGSM3 |
| 1 0. 0103422 0. 0124472 HOXA3 | HOXA3 |
| 1 0. 0103422 0. 0124472 NPM1 | NPM1 |
| 1 0. 0103422 0. 0124472 MEN1 | MEN1 |
| 1 0. 0103422 0. 0124472 GLI1 | GLI1 |
| 1 0. 0103422 0. 0124472 SOD1 | SOD1 |
| 1 0. 0103422 0. 0124472 NOD2 | NOD2 |
| 1 0. 0103422 0. 0124472 NOD2 | NOD2 |
| 1 0. 0103422 0. 0124472 NOD2 | NOD2 |
| 1 0. 0103422 0. 0124472 OXSM | OXSM |
| 1 0. 0103422 0. 0124472 OXSM | OXSM |
| 1 0. 0103422 0. 0124472 TNNC1 | TNC |
| 1 0. 0103422 0. 0124472 AGT | AGT |
| 1 0. 0103422 0. 0124472 AGT | AGT |
| 1 0. 0103422 0. 0124472 AGT | AGT |
| 1 0. 0103422 0. 0124472 AGT | AGT |
| 1 0. 0103422 0. 0124472 AGT | AGT |
| 1 0. 0103422 0. 0124472 AGXT | AGT |
| 1 0. 0103422 0. 0124472 AGXT | AGT |
| 1 0. 0103422 0. 0124472 AGXT | AGT |
| 1 0. 0103422 0. 0124472 AGXT | AGT |
| 1 0. 0103422 0. 0124472 NAGK | NAGK |
| 1 0. 0103422 0. 0124472 DERL1 | DERL1 |
| 1 0. 0103422 0. 0124472 MDM4 | MDM4 |
| 1 0. 0103422 0. 0124472 MSH6 | MSH6 |
| 1 0. 0103422 0. 0124472 CX3CL1 | CX3CL1 |
| 1 0. 0103422 0. 0124472 CX3CL1 | CX3CL1 |
| 1 0. 0103422 0. 0124472 PTEN | PTEN |
| 1 0. 0103422 0. 0124472 PTEN | PTEN |
| 1 0. 0103422 0. 0124472 GRM7 | GRM7 |
| 1 0. 0103422 0. 0124472 GDF5 | GDF5 |
| 1 0. 0103422 0. 0124472 MTIF3 | MTIF3 |
| 1 0. 0103422 0. 0124472 SEPP1 | SEPP1 |
| 1 0. 0103422 0. 0124472 NIN | NIN |
| 1 0. 0103422 0. 0124472 TSSK4 | TSSK4 |
| 1 0. 0103422 0. 0124472 NR3C1 | NR3C1 |
| 1 0. 0103422 0. 0124472 SMC3 | SMC3 |
| 1 0. 0103422 0. 0124472 HPRT1 | HPRT1 |
| 1 0. 0103422 0. 0124472 HPRT1 | HPRT1 |
| 1 0. 0103422 0. 0124472 ATP6V1H | ATP6V1H |
| 1 0. 0103422 0. 0124472 FLNA | FLNA |
| 1 0. 0103422 0. 0124472 IL6 | HGF |
| 1 0. 0103422 0. 0124472 CDH13 | CDH13 |
| 1 0. 0103422 0. 0124472 APBB1 | APBB1 |
| 1 0. 0103422 0. 0124472 CD1D | CD1D |
| 1 0. 0103422 0. 0124472 ERCC3 | ERCC3 |
| 1 0. 0103422 0. 0124472 FOXE1 | TTF2 |
| 1 0. 0103422 0. 0124472 NEDD4 | NEDD4 |
| 1 0. 0103422 0. 0124472 NEDD4 | NEDD4 |
| 1 0. 0103422 0. 0124472 NEDD4 | NEDD4 |
| 1 0. 0103422 0. 0124472 NEDD4 | NEDD4 |

| | |
|----------------------------------|----------|
| 1 0. 0103422 0. 0124472 ATP2C1 | ATP2C1 |
| 1 0. 0103422 0. 0124472 ATP2C1 | ATP2C1 |
| 1 0. 0103422 0. 0124472 ANK1 | ANK1 |
| 1 0. 0103422 0. 0124472 SLC35D1 | SLC35D1 |
| 1 0. 0103422 0. 0124472 PLCG2 | PLCG2 |
| 1 0. 0103422 0. 0124472 REV1 | REV1 |
| 1 0. 0103422 0. 0124472 AR | AR |
| 1 0. 0103422 0. 0124472 HTT | HTT |
| 1 0. 0103422 0. 0124472 CDA | CDA |
| 1 0. 0103422 0. 0124472 CDA | CDA |
| 1 0. 0103422 0. 0124472 CDA | CDA |
| 1 0. 0103422 0. 0124472 SLC30A8 | SLC30A8 |
| 1 0. 0103422 0. 0124472 HPS4 | HPS4 |
| 1 0. 0103422 0. 0124472 SLC22A12 | SLC22A12 |
| 1 0. 0103422 0. 0124472 SMARCA4 | SMARCA4 |
| 1 0. 0103422 0. 0124472 SYCP2 | SCP2 |
| 1 0. 0103422 0. 0124472 MYCBP2 | MYCBP2 |
| 1 0. 0103422 0. 0124472 ATG10 | ATG10 |
| 1 0. 0103422 0. 0124472 ISCU | ISCU |
| 1 0. 0103422 0. 0124472 SLC19A2 | SLC19A2 |
| 1 0. 0103422 0. 0124472 KCNMA1 | KCNMA1 |
| 1 0. 0103422 0. 0124472 KCNMA1 | KCNMA1 |
| 1 0. 0103422 0. 0124472 KCNMA1 | KCNMA1 |
| 1 0. 0103422 0. 0124472 KCNMA1 | KCNMA1 |
| 1 0. 0103422 0. 0124472 KCNMA1 | KCNMA1 |
| 1 0. 0103422 0. 0124472 ADH5 | ADH5 |
| 1 0. 0103422 0. 0124472 ADH5 | ADH5 |
| 1 0. 0103422 0. 0124472 ADRA1D | ADRA1A |
| 1 0. 0103422 0. 0124472 ADRA1D | ADRA1A |
| 1 0. 0103422 0. 0124472 ALS2 | ALS2 |
| 1 0. 0103422 0. 0124472 SLC11A2 | SLC11A2 |
| 1 0. 0103422 0. 0124472 BCL6 | BCL6 |
| 1 0. 0103422 0. 0124472 BCL6 | BCL6 |
| 1 0. 0103422 0. 0124472 SLC28A3 | SLC28A3 |
| 1 0. 0103422 0. 0124472 CBS | CBS |
| 1 0. 0103422 0. 0124472 CBS | CBS |
| 1 0. 0103422 0. 0124472 CHST11 | CHST11 |
| 1 0. 0103422 0. 0124472 MMAB | MMAB |
| 1 0. 0103422 0. 0124472 TRPM7 | TRPM7 |
| 1 0. 0103422 0. 0124472 CEL | FAP |
| 1 0. 0103422 0. 0124472 CEL | FAP |
| 1 0. 0103422 0. 0124472 IGF1 | IGF1 |
| 1 0. 0103422 0. 0124472 IGF1 | IGF1 |
| 1 0. 0103422 0. 0124472 IGF1 | IGF1 |
| 1 0. 0103422 0. 0124472 BBS4 | BBS4 |
| 1 0. 0103422 0. 0124472 BBS4 | BBS4 |
| 1 0. 0103422 0. 0124472 BBS4 | BBS4 |
| 1 0. 0103422 0. 0124472 PDXK | PDXK |
| 1 0. 0103422 0. 0124472 CAV1 | CAV1 |
| 1 0. 0103422 0. 0124472 CAV1 | CAV1 |
| 1 0. 0103422 0. 0124472 PCSK5 | PCSK5 |
| 1 0. 0103422 0. 0124472 F12 | F12 |

| | | |
|-------------------------|--|-----------------------|
| 1 0. 0103422 0. 0124472 | F12 | F12 |
| 1 0. 0103422 0. 0124472 | LIPC | LIPC |
| 1 0. 0103422 0. 0124472 | LIPC | LIPC |
| 1 0. 0103422 0. 0124472 | MICB | MICB |
| 1 0. 0103422 0. 0124472 | MCEE | MCEE |
| 1 0. 0103422 0. 0124472 | RANBP1 | RANBP1 |
| 1 0. 0103422 0. 0124472 | ESPL1 | ESPL1 |
| 1 0. 0103422 0. 0124472 | ESPL1 | ESPL1 |
| 1 0. 0103422 0. 0124472 | SLC1A3 | SLC1A3 |
| 1 0. 0103422 0. 0124472 | BCL2L11 | BCL2L11 |
| 1 0. 0103422 0. 0124472 | ENPP1 | ENPP1 |
| 1 0. 0103422 0. 0124472 | ENTPD4 | ENTPD4 |
| 1 0. 0103422 0. 0124472 | TRNT1 | TRNT1 |
| 1 0. 0103422 0. 0124472 | SLC38A3 | NAT1 |
| 1 0. 0103422 0. 0124472 | SLC38A3 | NAT1 |
| 1 0. 0103422 0. 0124472 | TGFBR2 | TGFBR2 |
| 1 0. 0103422 0. 0124472 | TRIOBP | TRIOBP |
| 3 0. 0106762 0. 0124472 | LYN;ACIN1;HEPH | LYN;ACIN1;HEPH |
| 3 0. 0113521 0. 0132173 | CSGALNACT1;CNTN/CSGALNACT1;CNTNAP3;VCAN | |
| 3 0. 0113521 0. 0132173 | RNASET2;PABPC4;IRNASET2;PABPC4;HNRNP | |
| 3 0. 0113521 0. 0132173 | SLC25A10;UCP2;SI SLC25A10;UCP2;SLC25A14 | |
| 3 0. 0113521 0. 0132173 | SOD1;GDF5;IGF1 | SOD1;GDF5;IGF1 |
| 2 0. 011654 0. 0135321 | AMPD3;AMPD2 | AMPD3;AMPD2 |
| 2 0. 011654 0. 0135321 | HES1;DLC1 | HES1;DLC1 |
| 2 0. 011654 0. 0135321 | PIK3C2B;PIK3R1 | PIK3C2B;PIK3R1 |
| 2 0. 011654 0. 0135321 | NPC1;ARSB | NPC1;ARSB |
| 2 0. 011654 0. 0135321 | BRCA2;ERCC4 | BRCA2;RAD1 |
| 3 0. 0120521 0. 0139599 | LYST;NF1;HPS3 | LYST;NF1;HPS3 |
| 3 0. 0127764 0. 0147922 | NTRK2;MCHR1;BDNF | NTRK2;MCHR1;BDNF |
| 9 0. 0127982 0. 0148108 | MCHR1;GNPDA1;APOM;GBE1;SLC25A27;ACO2;PHKA2;RUNX1 | |
| 4 0. 0128979 0. 0149162 | DBP;NPAS2;ARNTL2 | DBP;NPAS2;ARNTL2;PER3 |
| 2 0. 013118 0. 0151503 | EDN1;ITGA1 | EDN1;ITGA1 |
| 2 0. 013118 0. 0151503 | ID2;LIF | ID2;LIF |
| 2 0. 013118 0. 0151503 | SERPINE1;PLAU | SERPINE1;PLAU |
| 2 0. 013118 0. 0151503 | MEN1;IGFBP3 | MEN1;IGFBP3 |
| 6 0. 0137541 0. 0158672 | MYH10;PTEN;IL6;IMYH10;PTEN;HGF;LAMB1;NEDD4;ATF2 | |
| 3 0. 0142982 0. 0164876 | MYL5;PPP1R12B;TIMM9 | MYL5;PPP1R12B;TNC |
| 2 0. 0146573 0. 0168566 | NTRK2;BDNF | NTRK2;BDNF |
| 2 0. 0146573 0. 0168566 | PLA2G4A;PLCG2 | PLA2G4A;PLCG2 |
| 2 0. 0146573 0. 0168566 | COL5A3;COL5A2 | COL5A3;COL5A2 |
| 2 0. 0146573 0. 0168566 | RIMS1;SCIN | RIMS1;SCIN |
| 2 0. 0146573 0. 0168566 | COG1;COG3 | COG1;COG3 |
| 2 0. 0146573 0. 0168566 | TIMM9;TRNT1 | TIMM9;TRNT1 |
| 3 0. 0150958 0. 0173031 | RIMS1;NPLOC4;RAI1 | RIMS1;NPLOC4;RABEP1 |
| 3 0. 0150958 0. 0173031 | ADAM22;MIA3;CDH13 | ADAM22;MIA3;CDH13 |
| 2 0. 0162704 0. 0186205 | MYL3;TNNC1 | MYL3;TNC |
| 5 0. 0174505 0. 0199446 | STAT1;MAP3K1;BCL3;IRAK2;TIRAP | |
| 2 0. 0179555 0. 0204539 | ABCA4;BBS4 | ABCA4;BBS4 |
| 2 0. 0179555 0. 0204539 | NINJ1;NINJ2 | NINJ1;NINJ2 |
| 2 0. 0179555 0. 0204539 | RRM2B;FAS | RRM2B;FAS |
| 2 0. 0179555 0. 0204539 | MSH6;MSH3 | MSH6;MSH3 |
| 9 0. 0184263 0. 0208804 | SHROOM2;SSH1;SHROOM3;NOX4;HGF;ECT2;STK4;LST1; | |

| | | | | | | |
|---|----|---------|----|---------|------------------|------------------|
| 3 | 0. | 0185337 | 0. | 0208804 | CHD7;SMO;DLC1 | CHD7;SMO;DLC1 |
| 2 | 0. | 019711 | 0. | 0208804 | PCSK1;F12 | PCSK1;F12 |
| 2 | 0. | 019711 | 0. | 0208804 | EPHX2;PON2 | EPHX2;PON2 |
| 2 | 0. | 019711 | 0. | 0208804 | MAP3K11;MAPK8IP2 | MAP3K11;MAPK8IP2 |
| 2 | 0. | 019711 | 0. | 0208804 | BTG1;HEMK1 | BTG1;HEMK1 |
| 2 | 0. | 019711 | 0. | 0208804 | XYLT2;EXT2 | XYLT2;EXT2 |
| 1 | 0. | 0205774 | 0. | 0208804 | CTNNB1 | CTNNB1 |
| 1 | 0. | 0205774 | 0. | 0208804 | NTRK2 | NTRK2 |
| 1 | 0. | 0205774 | 0. | 0208804 | PPARGC1A | PPARGC1A |
| 1 | 0. | 0205774 | 0. | 0208804 | UGCG | UGCG |
| 1 | 0. | 0205774 | 0. | 0208804 | TGM2 | TGM2 |
| 1 | 0. | 0205774 | 0. | 0208804 | LARS | LARS |
| 1 | 0. | 0205774 | 0. | 0208804 | CHST1 | CHST1 |
| 1 | 0. | 0205774 | 0. | 0208804 | ADM | ADM |
| 1 | 0. | 0205774 | 0. | 0208804 | CSGALNACT1 | CSGALNACT1 |
| 1 | 0. | 0205774 | 0. | 0208804 | CSGALNACT1 | CSGALNACT1 |
| 1 | 0. | 0205774 | 0. | 0208804 | CSGALNACT1 | CSGALNACT1 |
| 1 | 0. | 0205774 | 0. | 0208804 | PGAP1;PGAP1 | BST1;PGAP1 |
| 1 | 0. | 0205774 | 0. | 0208804 | EDN1 | EDN1 |
| 1 | 0. | 0205774 | 0. | 0208804 | EDN1 | EDN1 |
| 1 | 0. | 0205774 | 0. | 0208804 | EDN1 | EDN1 |
| 1 | 0. | 0205774 | 0. | 0208804 | EDN1 | EDN1 |
| 1 | 0. | 0205774 | 0. | 0208804 | C3 | C3 |
| 1 | 0. | 0205774 | 0. | 0208804 | HSD17B6 | HSD17B6 |
| 1 | 0. | 0205774 | 0. | 0208804 | EGFR | EGFR |
| 1 | 0. | 0205774 | 0. | 0208804 | THBS1 | THBS1 |
| 1 | 0. | 0205774 | 0. | 0208804 | THBS1 | THBS1 |
| 1 | 0. | 0205774 | 0. | 0208804 | THBS1 | THBS1 |
| 1 | 0. | 0205774 | 0. | 0208804 | THBS1 | THBS1 |
| 1 | 0. | 0205774 | 0. | 0208804 | THBS1 | THBS1 |
| 1 | 0. | 0205774 | 0. | 0208804 | THBS1 | THBS1 |
| 1 | 0. | 0205774 | 0. | 0208804 | HIPK3 | HIPK3 |
| 1 | 0. | 0205774 | 0. | 0208804 | SMAD3 | SMAD3 |
| 1 | 0. | 0205774 | 0. | 0208804 | EIF2AK3 | EIF2AK3 |
| 1 | 0. | 0205774 | 0. | 0208804 | APOB | APOB |
| 1 | 0. | 0205774 | 0. | 0208804 | FGF18 | FGF18 |
| 1 | 0. | 0205774 | 0. | 0208804 | ACIN1 | ACIN1 |
| 1 | 0. | 0205774 | 0. | 0208804 | SOCS5 | SOCS5 |
| 1 | 0. | 0205774 | 0. | 0208804 | FMN2 | FMN2 |
| 1 | 0. | 0205774 | 0. | 0208804 | FMN2 | FMN2 |
| 1 | 0. | 0205774 | 0. | 0208804 | HES1 | HES1 |
| 1 | 0. | 0205774 | 0. | 0208804 | HES1 | HES1 |
| 1 | 0. | 0205774 | 0. | 0208804 | HES1 | HES1 |
| 1 | 0. | 0205774 | 0. | 0208804 | PCSK2 | PCSK2 |
| 1 | 0. | 0205774 | 0. | 0208804 | GC | DBP |
| 1 | 0. | 0205774 | 0. | 0208804 | HSD17B4 | DBP |
| 1 | 0. | 0205774 | 0. | 0208804 | ANLN | ANLN |
| 1 | 0. | 0205774 | 0. | 0208804 | CHAF1B;CHAF1B | CHAF1B;MPP7 |
| 1 | 0. | 0205774 | 0. | 0208804 | GPX3 | GPX3 |
| 1 | 0. | 0205774 | 0. | 0208804 | PPP2R4 | PPP2R4 |
| 1 | 0. | 0205774 | 0. | 0208804 | LYST | LYST |
| 1 | 0. | 0205774 | 0. | 0208804 | LYST | LYST |
| 1 | 0. | 0205774 | 0. | 0208804 | ADAM9 | ADAM9 |

| | |
|---------------------------------|---------|
| 1 0. 0205774 0. 0208804 GALNT2 | GALNT2 |
| 1 0. 0205774 0. 0208804 P4HA2 | P4HA2 |
| 1 0. 0205774 0. 0208804 ETS1 | ETS1 |
| 1 0. 0205774 0. 0208804 FOSL1 | FOSL1 |
| 1 0. 0205774 0. 0208804 HMOX1 | HMOX1 |
| 1 0. 0205774 0. 0208804 HMOX1 | HMOX1 |
| 1 0. 0205774 0. 0208804 CDKN2A | CDKN2A |
| 1 0. 0205774 0. 0208804 CDKN2A | CDKN2A |
| 1 0. 0205774 0. 0208804 DRD4 | DRD4 |
| 1 0. 0205774 0. 0208804 DRD4 | DRD4 |
| 1 0. 0205774 0. 0208804 AGRN | AGRN |
| 1 0. 0205774 0. 0208804 PGD | PGD |
| 1 0. 0205774 0. 0208804 PGD | PGD |
| 1 0. 0205774 0. 0208804 NR5A1 | SF1 |
| 1 0. 0205774 0. 0208804 SOAT1 | ACAT1 |
| 1 0. 0205774 0. 0208804 SOAT1 | ACAT1 |
| 1 0. 0205774 0. 0208804 KIF23 | KIF23 |
| 1 0. 0205774 0. 0208804 NARS2 | NARS2 |
| 1 0. 0205774 0. 0208804 NF1 | NF1 |
| 1 0. 0205774 0. 0208804 LAMC1 | LAMB2 |
| 1 0. 0205774 0. 0208804 PRKRA | PRKRA |
| 1 0. 0205774 0. 0208804 PMP22 | SP110 |
| 1 0. 0205774 0. 0208804 AQP3 | AQP3 |
| 1 0. 0205774 0. 0208804 DPH5 | DPH5 |
| 1 0. 0205774 0. 0208804 BARD1 | BARD1 |
| 1 0. 0205774 0. 0208804 KRT18 | KRT18 |
| 1 0. 0205774 0. 0208804 CENPE | CENPE |
| 1 0. 0205774 0. 0208804 RNMT | MET |
| 1 0. 0205774 0. 0208804 PPARG | PPARG |
| 1 0. 0205774 0. 0208804 ALDH1A3 | ALDH1A3 |
| 1 0. 0205774 0. 0208804 HEXB | HEXB |
| 1 0. 0205774 0. 0208804 IL6ST | IL6ST |
| 1 0. 0205774 0. 0208804 COL2A1 | COL2A1 |
| 1 0. 0205774 0. 0208804 DPYD | DPYD |
| 1 0. 0205774 0. 0208804 DPYD | DPYD |
| 1 0. 0205774 0. 0208804 LEF1 | LEF1 |
| 1 0. 0205774 0. 0208804 MIPEP | MIPEP |
| 1 0. 0205774 0. 0208804 SPHK1 | SPHK1 |
| 1 0. 0205774 0. 0208804 SHMT1 | SHMT1 |
| 1 0. 0205774 0. 0208804 IFRD1 | IFRD1 |
| 1 0. 0205774 0. 0208804 HMGB1 | HMGB1 |
| 1 0. 0205774 0. 0208804 BCAT2 | BCAM |
| 1 0. 0205774 0. 0208804 LIG4 | LIG4 |
| 1 0. 0205774 0. 0208804 MYH10 | MYH10 |
| 1 0. 0205774 0. 0208804 MYH10 | MYH10 |
| 1 0. 0205774 0. 0208804 SEMA3A | SEMA3A |
| 1 0. 0205774 0. 0208804 NLRP12 | NLRP12 |
| 1 0. 0205774 0. 0208804 BMPR1B | BMPR1B |
| 1 0. 0205774 0. 0208804 NMT2 | NMT2 |
| 1 0. 0205774 0. 0208804 MDFIC | MDFIC |
| 1 0. 0205774 0. 0208804 BCL3 | BCL3 |
| 1 0. 0205774 0. 0208804 BCL3 | BCL3 |

| | |
|-------------------------------------|----------|
| 1 0. 0205774 0. 0208804 ZBTB16 | ZBTB16 |
| 1 0. 0205774 0. 0208804 MCCC2 | MCCC2 |
| 1 0. 0205774 0. 0208804 NCBP2 | NCBP2 |
| 1 0. 0205774 0. 0208804 SHROOM3 | SHROOM3 |
| 1 0. 0205774 0. 0208804 LLGL1 | DLG4 |
| 1 0. 0205774 0. 0208804 SMS | SMS |
| 1 0. 0205774 0. 0208804 MEN1 | MEN1 |
| 1 0. 0205774 0. 0208804 ATP8B3 | ATP8B3 |
| 1 0. 0205774 0. 0208804 SOD1 | SOD1 |
| 1 0. 0205774 0. 0208804 SOD1 | SOD1 |
| 1 0. 0205774 0. 0208804 NOD2 | NOD2 |
| 1 0. 0205774 0. 0208804 NOD2 | NOD2 |
| 1 0. 0205774 0. 0208804 NOD2 | NOD2 |
| 1 0. 0205774 0. 0208804 PAPSS2 | PAPSS2 |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 AGT | AGT |
| 1 0. 0205774 0. 0208804 TLR3 | TLR3 |
| 1 0. 0205774 0. 0208804 STAT5B | STAT5B |
| 1 0. 0205774 0. 0208804 STAT5B | STAT5B |
| 1 0. 0205774 0. 0208804 STAT5B | STAT5B |
| 1 0. 0205774 0. 0208804 UBE2B | UBE2B |
| 1 0. 0205774 0. 0208804 PDGFA | PDGFA |
| 1 0. 0205774 0. 0208804 GRM7 | GRM7 |
| 1 0. 0205774 0. 0208804 NUP98 | NUP98 |
| 1 0. 0205774 0. 0208804 NLGN1 | NLGN1 |
| 1 0. 0205774 0. 0208804 DDIT3 | DDIT3 |
| 1 0. 0205774 0. 0208804 CEP120 | CEP120 |
| 1 0. 0205774 0. 0208804 CEP120 | CEP120 |
| 1 0. 0205774 0. 0208804 VPS33A | VPS33A |
| 1 0. 0205774 0. 0208804 TN13B_HUMAN | TNFSF13B |
| 1 0. 0205774 0. 0208804 INSIG2 | INSIG2 |
| 1 0. 0205774 0. 0208804 HPRT1 | HPRT1 |
| 1 0. 0205774 0. 0208804 KIF11 | KIF11 |
| 1 0. 0205774 0. 0208804 IL6 | HGF |
| 1 0. 0205774 0. 0208804 IL6 | HGF |
| 1 0. 0205774 0. 0208804 IL6 | HGF |
| 1 0. 0205774 0. 0208804 LAMA1 | LAMA1 |
| 1 0. 0205774 0. 0208804 LCK | LCK |
| 1 0. 0205774 0. 0208804 DMGDH | DMGDH |
| 1 0. 0205774 0. 0208804 OXA1L | OXA1L |
| 1 0. 0205774 0. 0208804 AHR | AHR |
| 1 0. 0205774 0. 0208804 RENR_HUMAN | ATP6AP2 |
| 1 0. 0205774 0. 0208804 NR1H3 | NR1H3 |
| 1 0. 0205774 0. 0208804 NEDD4 | NEDD4 |
| 1 0. 0205774 0. 0208804 HOMER1 | HOMER1 |
| 1 0. 0205774 0. 0208804 ADPRH | ADPRH |
| 1 0. 0205774 0. 0208804 PLCG2 | PLCG2 |

| | |
|---|--------------|
| 1 0. 0205774 0. 0208804 SLC25A12 | SLC25A12 |
| 1 0. 0205774 0. 0208804 HTT | HTT |
| 1 0. 0205774 0. 0208804 OXCT1 | OXCT1 |
| 1 0. 0205774 0. 0208804 CDA | CDA |
| 1 0. 0205774 0. 0208804 PDS5B | PDS5B |
| 1 0. 0205774 0. 0208804 SMARCA4 | SMARCA4 |
| 1 0. 0205774 0. 0208804 GPX2 | GPX2 |
| 1 0. 0205774 0. 0208804 EPHB2 | EPHB2 |
| 1 0. 0205774 0. 0208804 UGP2 | UGP2 |
| 1 0. 0205774 0. 0208804 KCNMA1 | KCNMA1 |
| 1 0. 0205774 0. 0208804 PTDSS2 | PTDSS2 |
| 1 0. 0205774 0. 0208804 ADH5 | ADH5 |
| 1 0. 0205774 0. 0208804 TRPV1 | TRPV1 |
| 1 0. 0205774 0. 0208804 IGF1 | IGF1 |
| 1 0. 0205774 0. 0208804 BBS4 | BBS4 |
| 1 0. 0205774 0. 0208804 GLUL | GLUL |
| 1 0. 0205774 0. 0208804 FAS | FAS |
| 1 0. 0205774 0. 0208804 CAV1 | CAV1 |
| 1 0. 0205774 0. 0208804 CAV1 | CAV1 |
| 1 0. 0205774 0. 0208804 F12 | F12 |
| 1 0. 0205774 0. 0208804 F12 | F12 |
| 1 0. 0205774 0. 0208804 ADI1 | ADI1 |
| 1 0. 0205774 0. 0208804 LIPC | LIPC |
| 1 0. 0205774 0. 0208804 CASP3 | CASP3 |
| 1 0. 0205774 0. 0208804 CASP3 | CASP3 |
| 1 0. 0205774 0. 0208804 MARS | MARS |
| 1 0. 0205774 0. 0208804 DIO2 | DIO2 |
| 1 0. 0205774 0. 0208804 SLC23A2 | SLC23A2 |
| 1 0. 0205774 0. 0208804 BCL2L11 | BCL2L11 |
| 1 0. 0205774 0. 0208804 ENPP1 | ENPP1 |
| 1 0. 0205774 0. 0208804 ENPP1 | ENPP1 |
| 1 0. 0205774 0. 0208804 RAD51C | RAD51C |
| 1 0. 0205774 0. 0208804 ALDH1L1 | ALDH1L1 |
| 1 0. 0205774 0. 0208804 ASNS | ASNS |
| 1 0. 0205774 0. 0208804 LEP | LEP |
| 1 0. 0205774 0. 0208804 LEP | LEP |
| 1 0. 0205774 0. 0208804 TGFBR2 | TGFBR2 |
| 1 0. 0205774 0. 0208804 TGFBR2 | TGFBR2 |
| 1 0. 0205774 0. 0208804 TGFBR2 | TGFBR2 |
| 1 0. 0205774 0. 0208804 ST3GAL5 | ST3GAL5 |
| 1 0. 0205774 0. 0208804 TAP2 | TAP2 |
| 1 0. 0205774 0. 0208804 SORT1 | SORT1 |
| 2 0. 0215352 0. 0208804 EDN1;CAV1 | EDN1;CAV1 |
| 2 0. 0215352 0. 0208804 FMN2;HEXB | FMN2;HEXB |
| 2 0. 0215352 0. 0208804 NBN;MYO6 | NBN;MYO6 |
| 2 0. 0215352 0. 0208804 SOD1;EIF2B4 | SOD1;EIF2B4 |
| 4 0. 0218336 0. 0211459 RPL37A;RPL9P9;GRPL37A;RPL9;GFM1;NOV | |
| 3 0. 0223692 0. 0216566 GNAS;ARL4D;LTBP2;GNAS;ARL6;LTBP2 | |
| 6 0. 0224179 0. 0216956 AKAP6;YWHAZ;NLGN1;AKAP6;YWHAZ;NLGN1;ANK3;LTBP2;HPS4 | |
| 2 0. 0234265 0. 0226335 PPFIBP2;GIN1 | PPFIBP2;GIN1 |
| 2 0. 0234265 0. 0226335 LEF1;SFRP1 | LEF1;SFRP1 |
| 2 0. 0234265 0. 0226335 NOD2;CD1D | NOD2;CD1D |

| | | | | | | |
|---|----|---------|----|---------|--------------------|--|
| 2 | 0. | 0234265 | 0. | 0226335 | HPRT1;LEP | HPRT1;LEP |
| 4 | 0. | 0239784 | 0. | 0231451 | HES1;PPARG;TLX1 | HES1;PPARG;TLX1;CASP3 |
| 5 | 0. | 0248655 | 0. | 0239924 | CENPE;MAP2K3;CD4 | CENPE;MAP2K3;CD4;PRKAG2;ALS2 |
| 2 | 0. | 0253833 | 0. | 0244418 | CTNNB1;TCF7L2;TCF4 | CTNNB1;TCF7L2;TCF4 |
| 2 | 0. | 0253833 | 0. | 0244418 | EDN1;PROC | EDN1;PC |
| 2 | 0. | 0253833 | 0. | 0244418 | NOTCH3;HES1 | NOTCH3;HES1 |
| 2 | 0. | 0253833 | 0. | 0244418 | GK;MOGAT1 | GK;MGAT1 |
| 2 | 0. | 0253833 | 0. | 0244418 | LIG4;STAT5B | LIG4;STAT5B |
| 2 | 0. | 0253833 | 0. | 0244418 | MGP;ENPP1 | MGP;ENPP1 |
| 2 | 0. | 0274041 | 0. | 0263287 | HPD;FAH | HPD;FAH |
| 2 | 0. | 0274041 | 0. | 0263287 | APOB;ABCA1 | APOB;ABCA1 |
| 3 | 0. | 0277238 | 0. | 0266013 | EGFR;THBS1;GLMN | EGFR;THBS1;FAP |
| 3 | 0. | 0277238 | 0. | 0266013 | EPHX2;NOX4;AGT | EPHX2;NOX4;AGT |
| 5 | 0. | 0279359 | 0. | 0267749 | CAMK1;NPM1;NUP98 | CAMK1;NPM1;NUP98;ANP32A;EIF5A |
| 2 | 0. | 0294873 | 0. | 0278996 | CTNNB1;SOX9 | CTNNB1;SOX9 |
| 6 | 0. | 0300679 | 0. | 0278996 | SLC25A15;SLC7A8 | ORC1;LAT2;SLC6A6;GLUD1;SLC7A2;SLC7A8;PTS |
| 1 | 0. | 0307068 | 0. | 0278996 | CHRM2 | CHRM2 |
| 1 | 0. | 0307068 | 0. | 0278996 | PLA2G4A | PLA2G4A |
| 1 | 0. | 0307068 | 0. | 0278996 | ADM | ADM |
| 1 | 0. | 0307068 | 0. | 0278996 | CSGALNACT1 | CSGALNACT1 |
| 1 | 0. | 0307068 | 0. | 0278996 | KCNA5 | HK2 |
| 1 | 0. | 0307068 | 0. | 0278996 | HSD17B6 | HSD17B6 |
| 1 | 0. | 0307068 | 0. | 0278996 | EGFR | EGFR |
| 1 | 0. | 0307068 | 0. | 0278996 | EGFR | EGFR |
| 1 | 0. | 0307068 | 0. | 0278996 | HHIP | HHIP |
| 1 | 0. | 0307068 | 0. | 0278996 | SLC02A1 | SLC02A1 |
| 1 | 0. | 0307068 | 0. | 0278996 | ADSSL1 | ADSSL1 |
| 1 | 0. | 0307068 | 0. | 0278996 | RYR1 | RYR1 |
| 1 | 0. | 0307068 | 0. | 0278996 | EIF2AK3 | EIF2AK3 |
| 1 | 0. | 0307068 | 0. | 0278996 | ABCC9 | ABCC9 |
| 1 | 0. | 0307068 | 0. | 0278996 | SORBS3 | SORBS3 |
| 1 | 0. | 0307068 | 0. | 0278996 | HES1 | HES1 |
| 1 | 0. | 0307068 | 0. | 0278996 | CD81 | CD81 |
| 1 | 0. | 0307068 | 0. | 0278996 | UBE2C | UBE2C |
| 1 | 0. | 0307068 | 0. | 0278996 | GCK | GK |
| 1 | 0. | 0307068 | 0. | 0278996 | GCK | GK |
| 1 | 0. | 0307068 | 0. | 0278996 | PPP2R4 | PPP2R4 |
| 1 | 0. | 0307068 | 0. | 0278996 | PPP2R4 | PPP2R4 |
| 1 | 0. | 0307068 | 0. | 0278996 | ADAM9 | ADAM9 |
| 1 | 0. | 0307068 | 0. | 0278996 | ADAM9 | ADAM9 |
| 1 | 0. | 0307068 | 0. | 0278996 | TNFAIP8 | TNFAIP8 |
| 1 | 0. | 0307068 | 0. | 0278996 | CYP39A1 | CYP39A1 |
| 1 | 0. | 0307068 | 0. | 0278996 | CHD7 | CHD7 |
| 1 | 0. | 0307068 | 0. | 0278996 | RFC4 | RFC4 |
| 1 | 0. | 0307068 | 0. | 0278996 | HMOX1 | HMOX1 |
| 1 | 0. | 0307068 | 0. | 0278996 | DRD4 | DRD4 |
| 1 | 0. | 0307068 | 0. | 0278996 | DRD4 | DRD4 |
| 1 | 0. | 0307068 | 0. | 0278996 | DRD4 | DRD4 |
| 1 | 0. | 0307068 | 0. | 0278996 | DRD4 | DRD4 |
| 1 | 0. | 0307068 | 0. | 0278996 | DRD4 | DRD4 |
| 1 | 0. | 0307068 | 0. | 0278996 | CYP26A1 | CYP26A1 |
| 1 | 0. | 0307068 | 0. | 0278996 | AGRN | AGRN |
| 1 | 0. | 0307068 | 0. | 0278996 | EGR2 | EGR2 |

| | |
|-------------------------------------|----------|
| 1 0. 0307068 0. 0278996 EGR2 | EGR2 |
| 1 0. 0307068 0. 0278996 EGR2 | EGR2 |
| 1 0. 0307068 0. 0278996 DPP4 | DPP4 |
| 1 0. 0307068 0. 0278996 PHGDH | PGD |
| 1 0. 0307068 0. 0278996 NF1 | NF1 |
| 1 0. 0307068 0. 0278996 SLC37A4 | SLC37A4 |
| 1 0. 0307068 0. 0278996 HS6ST1 | HS6ST1 |
| 1 0. 0307068 0. 0278996 NBN | NBN |
| 1 0. 0307068 0. 0278996 PPARG | PPARG |
| 1 0. 0307068 0. 0278996 PPARG | PPARG |
| 1 0. 0307068 0. 0278996 DPYD | DPYD |
| 1 0. 0307068 0. 0278996 CEP290 | CEP290 |
| 1 0. 0307068 0. 0278996 COL1A1 | COL1A1 |
| 1 0. 0307068 0. 0278996 AGPAT1 | AGPAT1 |
| 1 0. 0307068 0. 0278996 LIG4 | LIG4 |
| 1 0. 0307068 0. 0278996 SP100 | SP100 |
| 1 0. 0307068 0. 0278996 ADC | ADC |
| 1 0. 0307068 0. 0278996 BRCA2 | BRCA2 |
| 1 0. 0307068 0. 0278996 BCL3 | BCL3 |
| 1 0. 0307068 0. 0278996 SLC13A5 | SLC13A5 |
| 1 0. 0307068 0. 0278996 ERCC4 | RAD1 |
| 1 0. 0307068 0. 0278996 ERCC4 | RAD1 |
| 1 0. 0307068 0. 0278996 ERCC4 | RAD1 |
| 1 0. 0307068 0. 0278996 HOXA3 | HOXA3 |
| 1 0. 0307068 0. 0278996 MEN1 | MEN1 |
| 1 0. 0307068 0. 0278996 GLI1 | GLI1 |
| 1 0. 0307068 0. 0278996 CASC5 | CASC5 |
| 1 0. 0307068 0. 0278996 NOD2 | NOD2 |
| 1 0. 0307068 0. 0278996 NOD2 | NOD2 |
| 1 0. 0307068 0. 0278996 AGT | AGT |
| 1 0. 0307068 0. 0278996 AGXT | AGT |
| 1 0. 0307068 0. 0278996 EIF2S1 | EIF2A |
| 1 0. 0307068 0. 0278996 DDIT3 | DDIT3 |
| 1 0. 0307068 0. 0278996 PRKCD | PRKCD |
| 1 0. 0307068 0. 0278996 TSSK6 | TSSK4 |
| 1 0. 0307068 0. 0278996 TN13B_HUMAN | TNFSF13B |
| 1 0. 0307068 0. 0278996 EARS2 | EARS2 |
| 1 0. 0307068 0. 0278996 E2F6 | E2F6 |
| 1 0. 0307068 0. 0278996 HPRT1 | HPRT1 |
| 1 0. 0307068 0. 0278996 KIF11 | KIF11 |
| 1 0. 0307068 0. 0278996 IL6 | HGF |
| 1 0. 0307068 0. 0278996 IL6 | HGF |
| 1 0. 0307068 0. 0278996 IL6 | HGF |
| 1 0. 0307068 0. 0278996 IL6 | HGF |
| 1 0. 0307068 0. 0278996 ITGB3 | ITGB3 |
| 1 0. 0307068 0. 0278996 OXA1L | OXA1L |
| 1 0. 0307068 0. 0278996 SNAPC2 | SNAPC2 |
| 1 0. 0307068 0. 0278996 ERCC3 | ERCC3 |
| 1 0. 0307068 0. 0278996 DAO | DAO |
| 1 0. 0307068 0. 0278996 PCAF | KAT2B |
| 1 0. 0307068 0. 0278996 HOMER1 | HOMER1 |
| 1 0. 0307068 0. 0278996 PLCG2 | PLCG2 |

| | | |
|-------------------------|------------------|----------------------|
| 1 0. 0307068 0. 0278996 | PIPOX | PIPOX |
| 1 0. 0307068 0. 0278996 | SLC25A12 | SLC25A12 |
| 1 0. 0307068 0. 0278996 | HACL1 | HACL1 |
| 1 0. 0307068 0. 0278996 | HTT | HTT |
| 1 0. 0307068 0. 0278996 | HTT | HTT |
| 1 0. 0307068 0. 0278996 | HTT | HTT |
| 1 0. 0307068 0. 0278996 | SLC6A4 | HTT |
| 1 0. 0307068 0. 0278996 | SLC44A1 | SLC44A1 |
| 1 0. 0307068 0. 0278996 | OGG1 | OGG1 |
| 1 0. 0307068 0. 0278996 | SMARCA4 | SMARCA4 |
| 1 0. 0307068 0. 0278996 | SLC36A1 | SLC36A1 |
| 1 0. 0307068 0. 0278996 | GPX2 | GPX2 |
| 1 0. 0307068 0. 0278996 | UHL1 | UHL1 |
| 1 0. 0307068 0. 0278996 | GART | GART |
| 1 0. 0307068 0. 0278996 | ATG4C | ATG4C |
| 1 0. 0307068 0. 0278996 | ALS2 | ALS2 |
| 1 0. 0307068 0. 0278996 | BCL6 | BCL6 |
| 1 0. 0307068 0. 0278996 | BCL6 | BCL6 |
| 1 0. 0307068 0. 0278996 | SLC28A3 | SLC28A3 |
| 1 0. 0307068 0. 0278996 | CHST11 | CHST11 |
| 1 0. 0307068 0. 0278996 | CEL | FAP |
| 1 0. 0307068 0. 0278996 | IGF1 | IGF1 |
| 1 0. 0307068 0. 0278996 | IGF1 | IGF1 |
| 1 0. 0307068 0. 0278996 | BBS4 | BBS4 |
| 1 0. 0307068 0. 0278996 | PDXK | PDXK |
| 1 0. 0307068 0. 0278996 | PDXK | PDXK |
| 1 0. 0307068 0. 0278996 | GDNF | ATF2 |
| 1 0. 0307068 0. 0278996 | FAS | FAS |
| 1 0. 0307068 0. 0278996 | FAS | FAS |
| 1 0. 0307068 0. 0278996 | IGFBP3 | IGFBP3 |
| 1 0. 0307068 0. 0278996 | CAV1 | CAV1 |
| 1 0. 0307068 0. 0278996 | CAV1 | CAV1 |
| 1 0. 0307068 0. 0278996 | MAFF | MAFF |
| 1 0. 0307068 0. 0278996 | ATXN1 | ATXN1 |
| 1 0. 0307068 0. 0278996 | CCDC88C | CCDC88C |
| 1 0. 0307068 0. 0278996 | SLC23A2 | SLC23A2 |
| 1 0. 0307068 0. 0278996 | PGGT1B | PGGT1B |
| 1 0. 0307068 0. 0278996 | ENPP1 | ENPP1 |
| 1 0. 0307068 0. 0278996 | LONP1 | PIM1 |
| 1 0. 0307068 0. 0278996 | CPT1B | CHKB |
| 1 0. 0307068 0. 0278996 | SORT1 | SORT1 |
| 2 0. 0316315 0. 0278996 | TGM2;CHRD | TGM2;CHRD |
| 2 0. 0316315 0. 0278996 | SOAT1;ABCA1 | ACAT1;ABCA1 |
| 2 0. 0316315 0. 0278996 | NBN;SMG6 | NBN;SMG6 |
| 2 0. 0316315 0. 0278996 | BDNF;HTT | BDNF;HTT |
| 3 0. 0324536 0. 0286004 | ECE1;SHROOM2;BCI | ECE1;SHROOM2;BCL2L11 |
| 3 0. 0336976 0. 0296865 | CHD7;NHEJ1;LCK | CHD7;NHEJ1;LCK |
| 2 0. 0338351 0. 0297873 | TROVE2;SNAPC2 | TROVE2;SNAPC2 |
| 2 0. 0338351 0. 0297873 | NFIA;EIF5A | NFIA;EIF5A |
| 2 0. 0360967 0. 0317405 | SERPINF1;LIG4 | SERPINF1;LIG4 |
| 2 0. 0360967 0. 0317405 | HMOX1;HTT | HMOX1;HTT |
| 3 0. 0375758 0. 033013 | THRB;SERPINA3;BI | THRB;SERPINA3;BBS4 |

| | | | | | | |
|---|----|---------|----|---------|-------------------------------------|-------------------------------|
| 2 | 0. | 0384149 | 0. | 0337158 | PPARGC1A;ACADM | PPARGC1A;ACADM |
| 2 | 0. | 0384149 | 0. | 0337158 | NQO1;RORA;RORA;INQO1;RORA;ROR1;ROR2 | |
| 2 | 0. | 0384149 | 0. | 0337158 | NF1;SPRY4 | NF1;SPRY4 |
| 4 | 0. | 0384867 | 0. | 0337445 | ARHGAP29;COL1A2 | ARHGAP29;COL1A2;ARHGAP6;CDH13 |
| 1 | 0. | 0407315 | 0. | 0340517 | CTNNB1 | CTNNB1 |
| 1 | 0. | 0407315 | 0. | 0340517 | CTNNB1 | CTNNB1 |
| 1 | 0. | 0407315 | 0. | 0340517 | CSGALNACT1 | CSGALNACT1 |
| 1 | 0. | 0407315 | 0. | 0340517 | EDN1 | EDN1 |
| 1 | 0. | 0407315 | 0. | 0340517 | NRG1 | NRG1 |
| 1 | 0. | 0407315 | 0. | 0340517 | MASP1 | MASP1 |
| 1 | 0. | 0407315 | 0. | 0340517 | THBS1 | THBS1 |
| 1 | 0. | 0407315 | 0. | 0340517 | THBS1 | THBS1 |
| 1 | 0. | 0407315 | 0. | 0340517 | SMAD3 | SMAD3 |
| 1 | 0. | 0407315 | 0. | 0340517 | VCAM1 | VCAM1 |
| 1 | 0. | 0407315 | 0. | 0340517 | AS3MT | AS3MT |
| 1 | 0. | 0407315 | 0. | 0340517 | NTN4 | NTN4 |
| 1 | 0. | 0407315 | 0. | 0340517 | EIF2AK3 | EIF2AK3 |
| 1 | 0. | 0407315 | 0. | 0340517 | ENTPD3 | ENTPD3 |
| 1 | 0. | 0407315 | 0. | 0340517 | NEB | NEB |
| 1 | 0. | 0407315 | 0. | 0340517 | BDKRB2 | BDKRB2 |
| 1 | 0. | 0407315 | 0. | 0340517 | UBE2C | UBE2C |
| 1 | 0. | 0407315 | 0. | 0340517 | PPP2R2A | PPP2R2A |
| 1 | 0. | 0407315 | 0. | 0340517 | SHROOM2 | SHROOM2 |
| 1 | 0. | 0407315 | 0. | 0340517 | HMOX1 | HMOX1 |
| 1 | 0. | 0407315 | 0. | 0340517 | HMOX1 | HMOX1 |
| 1 | 0. | 0407315 | 0. | 0340517 | MOGAT1 | MOGAT1 |
| 1 | 0. | 0407315 | 0. | 0340517 | PUS7L | PUS7L |
| 1 | 0. | 0407315 | 0. | 0340517 | CYP26A1 | CYP26A1 |
| 1 | 0. | 0407315 | 0. | 0340517 | NF1 | NF1 |
| 1 | 0. | 0407315 | 0. | 0340517 | NF1 | NF1 |
| 1 | 0. | 0407315 | 0. | 0340517 | NF1 | NF1 |
| 1 | 0. | 0407315 | 0. | 0340517 | PFKL | PFKL |
| 1 | 0. | 0407315 | 0. | 0340517 | TRIM14 | TRIM14 |
| 1 | 0. | 0407315 | 0. | 0340517 | ZFP36L1 | ZFP36L1 |
| 1 | 0. | 0407315 | 0. | 0340517 | ABCA1 | ABCA1 |
| 1 | 0. | 0407315 | 0. | 0340517 | ABCA1 | ABCA1 |
| 1 | 0. | 0407315 | 0. | 0340517 | EEA1 | EEA1 |
| 1 | 0. | 0407315 | 0. | 0340517 | IDH3G | IDH3G |
| 1 | 0. | 0407315 | 0. | 0340517 | PPARG | PPARG |
| 1 | 0. | 0407315 | 0. | 0340517 | CCDC111 | CCDC111 |
| 1 | 0. | 0407315 | 0. | 0340517 | DPYD | DPYD |
| 1 | 0. | 0407315 | 0. | 0340517 | MDGA1 | MDGA1 |
| 1 | 0. | 0407315 | 0. | 0340517 | SP100 | SP100 |
| 1 | 0. | 0407315 | 0. | 0340517 | CLN5 | NCL |
| 1 | 0. | 0407315 | 0. | 0340517 | PTPN3 | PTPN3 |
| 1 | 0. | 0407315 | 0. | 0340517 | NLRP12 | NLRP12 |
| 1 | 0. | 0407315 | 0. | 0340517 | NLRP12 | NLRP12 |
| 1 | 0. | 0407315 | 0. | 0340517 | CENPF | CENPF |
| 1 | 0. | 0407315 | 0. | 0340517 | BCL3 | BCL3 |
| 1 | 0. | 0407315 | 0. | 0340517 | TNXB | TNXB |
| 1 | 0. | 0407315 | 0. | 0340517 | MEN1 | MEN1 |
| 1 | 0. | 0407315 | 0. | 0340517 | SOD1 | SOD1 |

| | |
|---|-----------------|
| 1 0. 0407315 0. 0340517 POLB | POLB |
| 1 0. 0407315 0. 0340517 NOD2 | NOD2 |
| 1 0. 0407315 0. 0340517 NOD2 | NOD2 |
| 1 0. 0407315 0. 0340517 AGT | AGT |
| 1 0. 0407315 0. 0340517 AGT | AGT |
| 1 0. 0407315 0. 0340517 TLR3 | TLR3 |
| 1 0. 0407315 0. 0340517 TLR3 | TLR3 |
| 1 0. 0407315 0. 0340517 TLR3 | TLR3 |
| 1 0. 0407315 0. 0340517 DERL1 | DERL1 |
| 1 0. 0407315 0. 0340517 STAT5B | STAT5B |
| 1 0. 0407315 0. 0340517 STAT5B | STAT5B |
| 1 0. 0407315 0. 0340517 STAT5B | STAT5B |
| 1 0. 0407315 0. 0340517 STAT5B | STAT5B |
| 1 0. 0407315 0. 0340517 PDGFA | PDGFA |
| 1 0. 0407315 0. 0340517 PTEN | PTEN |
| 1 0. 0407315 0. 0340517 AKT2 | AKT2 |
| 1 0. 0407315 0. 0340517 METAP2 | MAP2 |
| 1 0. 0407315 0. 0340517 HPRT1 | HPRT1 |
| 1 0. 0407315 0. 0340517 CPOX | CPOX |
| 1 0. 0407315 0. 0340517 UBA7 | UBA7 |
| 1 0. 0407315 0. 0340517 RAC1 | RAC1 |
| 1 0. 0407315 0. 0340517 EIF5A | EIF5A |
| 1 0. 0407315 0. 0340517 NR1H3 | NR1H3 |
| 1 0. 0407315 0. 0340517 G3BP2 | G3BP2 |
| 1 0. 0407315 0. 0340517 SLC36A1 | SLC36A1 |
| 1 0. 0407315 0. 0340517 GPX2 | GPX2 |
| 1 0. 0407315 0. 0340517 ALG13 | ALG13 |
| 1 0. 0407315 0. 0340517 FDXACB1 | FDXACB1 |
| 1 0. 0407315 0. 0340517 ALS2 | ALS2 |
| 1 0. 0407315 0. 0340517 SLC11A2 | SLC11A2 |
| 1 0. 0407315 0. 0340517 TPR | TPR |
| 1 0. 0407315 0. 0340517 BBS4 | BBS4 |
| 1 0. 0407315 0. 0340517 PLSCR1 | PLSCR1 |
| 1 0. 0407315 0. 0340517 FAS | FAS |
| 1 0. 0407315 0. 0340517 CAV1 | CAV1 |
| 1 0. 0407315 0. 0340517 F12 | F12 |
| 1 0. 0407315 0. 0340517 LIPC | LIPC |
| 1 0. 0407315 0. 0340517 HMGB3 | HMGB3 |
| 1 0. 0407315 0. 0340517 CNOT2 | CNOT2 |
| 1 0. 0407315 0. 0340517 MFN1 | MFN1 |
| 1 0. 0407315 0. 0340517 TGFBR2 | TGFBR2 |
| 1 0. 0407315 0. 0340517 TGFBR2 | TGFBR2 |
| 2 0. 0407882 0. 0340517 JAG1;LEP | JAG1;LEP |
| 2 0. 0407882 0. 0340517 ZBTB16;HMGB3 | ZBTB16;HMGB3 |
| 2 0. 0407882 0. 0340517 CEL;CAV1 | FAP;CAV1 |
| 3 0. 0445212 0. 0371142 PDGFRA;LCK;ABL2 | PDGFRA;LCK;ABL2 |
| 3 0. 0445212 0. 0371142 SYNE1;IFRD1;GLM | SYNE1;IFRD1;FAP |
| 2 0. 0456947 0. 0380495 SFRP5;CLASP2 | SFRP5;CLASP2 |
| 2 0. 0456947 0. 0380495 SMO;MDFI | SMO;MDFI |
| 2 0. 0456947 0. 0380495 NME5;BBS4 | NME5;BBS4 |
| 2 0. 0456947 0. 0380495 CEL;FAAH | FAP;FAAH |
| 2 0. 0482253 0. 0401114 SMAD3;CENPF | SMAD3;CENPF |

| | | | | | | |
|----|----|---------|----|---------|-----------------|---|
| 2 | 0. | 0482253 | 0. | 0401114 | EIF2AK3;PTH1R | EIF2AK3;PTH1R |
| 11 | 0. | 0501209 | 0. | 0406098 | PSG4;IL32;HLA-B | PSG4;IL32;HLA-B;NTN4;PSG9;CD81;SP140;APOM;CX3 |
| 3 | 0. | 0505027 | 0. | 0406098 | POLB;POLG2;CDK2 | POLB;POLB;CDK2AP1 |
| 1 | 0. | 0506525 | 0. | 0406098 | EDN1 | EDN1 |
| 1 | 0. | 0506525 | 0. | 0406098 | SLC4A7 | SLC4A7 |
| 1 | 0. | 0506525 | 0. | 0406098 | HHIP | HHIP |
| 1 | 0. | 0506525 | 0. | 0406098 | THBS1 | THBS1 |
| 1 | 0. | 0506525 | 0. | 0406098 | THBS1 | THBS1 |
| 1 | 0. | 0506525 | 0. | 0406098 | VCAM1 | VCAM1 |
| 1 | 0. | 0506525 | 0. | 0406098 | LPL | LPL |
| 1 | 0. | 0506525 | 0. | 0406098 | TGFA | TGFA |
| 1 | 0. | 0506525 | 0. | 0406098 | PDPK1 | PDK1 |
| 1 | 0. | 0506525 | 0. | 0406098 | GTSE1 | GTSE1 |
| 1 | 0. | 0506525 | 0. | 0406098 | ADAM9 | ADAM9 |
| 1 | 0. | 0506525 | 0. | 0406098 | CYP39A1 | CYP39A1 |
| 1 | 0. | 0506525 | 0. | 0406098 | SHROOM2 | SHROOM2 |
| 1 | 0. | 0506525 | 0. | 0406098 | HOXC10 | HOXC10 |
| 1 | 0. | 0506525 | 0. | 0406098 | ACCN2 | ASIC1 |
| 1 | 0. | 0506525 | 0. | 0406098 | PTGDS | PTGDS |
| 1 | 0. | 0506525 | 0. | 0406098 | MAP4K1 | MAP4K1 |
| 1 | 0. | 0506525 | 0. | 0406098 | CDKN2A | CDKN2A |
| 1 | 0. | 0506525 | 0. | 0406098 | SLC6A3 | SLC6A3 |
| 1 | 0. | 0506525 | 0. | 0406098 | SLC6A3 | SLC6A3 |
| 1 | 0. | 0506525 | 0. | 0406098 | PFKL | PFKL |
| 1 | 0. | 0506525 | 0. | 0406098 | MRPS35 | MRPS28 |
| 1 | 0. | 0506525 | 0. | 0406098 | AQP3 | AQP3 |
| 1 | 0. | 0506525 | 0. | 0406098 | ABCA1 | ABCA1 |
| 1 | 0. | 0506525 | 0. | 0406098 | ABCA1 | ABCA1 |
| 1 | 0. | 0506525 | 0. | 0406098 | ARNTL2 | ARNTL2 |
| 1 | 0. | 0506525 | 0. | 0406098 | PPARG | PPARG |
| 1 | 0. | 0506525 | 0. | 0406098 | EGLN1 | EGLN1 |
| 1 | 0. | 0506525 | 0. | 0406098 | HEXB | HEXB |
| 1 | 0. | 0506525 | 0. | 0406098 | SPHK1 | SPHK1 |
| 1 | 0. | 0506525 | 0. | 0406098 | LIG4 | LIG4 |
| 1 | 0. | 0506525 | 0. | 0406098 | MYH10 | MYH10 |
| 1 | 0. | 0506525 | 0. | 0406098 | GLUD1 | GLUD1 |
| 1 | 0. | 0506525 | 0. | 0406098 | BCL3 | BCL3 |
| 1 | 0. | 0506525 | 0. | 0406098 | RRM2B | RRM2B |
| 1 | 0. | 0506525 | 0. | 0406098 | MEN1 | MEN1 |
| 1 | 0. | 0506525 | 0. | 0406098 | SOD1 | SOD1 |
| 1 | 0. | 0506525 | 0. | 0406098 | SOD1 | SOD1 |
| 1 | 0. | 0506525 | 0. | 0406098 | TLR1 | TLR1 |
| 1 | 0. | 0506525 | 0. | 0406098 | TLR1 | TLR1 |
| 1 | 0. | 0506525 | 0. | 0406098 | AGT | AGT |
| 1 | 0. | 0506525 | 0. | 0406098 | AGT | AGT |
| 1 | 0. | 0506525 | 0. | 0406098 | LRPPRC | LRPPRC |
| 1 | 0. | 0506525 | 0. | 0406098 | TN13B_HUMAN | TNFSF13B |
| 1 | 0. | 0506525 | 0. | 0406098 | TBX1 | TBX1 |
| 1 | 0. | 0506525 | 0. | 0406098 | IL6 | HGF |
| 1 | 0. | 0506525 | 0. | 0406098 | CDH13 | CDH13 |
| 1 | 0. | 0506525 | 0. | 0406098 | LCK | LCK |
| 1 | 0. | 0506525 | 0. | 0406098 | BDNF | BDNF |

| | |
|--|----------------|
| 1 0. 0506525 0. 0406098 TDG | TDG |
| 1 0. 0506525 0. 0406098 KLF5 | KLF5 |
| 1 0. 0506525 0. 0406098 ITGB3 | ITGB3 |
| 1 0. 0506525 0. 0406098 RAC1 | RAC1 |
| 1 0. 0506525 0. 0406098 LDHA | LDHA |
| 1 0. 0506525 0. 0406098 NR1H3 | NR1H3 |
| 1 0. 0506525 0. 0406098 PADI4 | PADI4 |
| 1 0. 0506525 0. 0406098 PDE3A | PDE3A |
| 1 0. 0506525 0. 0406098 NEDD4 | NEDD4 |
| 1 0. 0506525 0. 0406098 EPOR | EPOR |
| 1 0. 0506525 0. 0406098 TRAF2 | TRAF2 |
| 1 0. 0506525 0. 0406098 TRAF2 | TRAF2 |
| 1 0. 0506525 0. 0406098 VLDLR | FLJ35024 |
| 1 0. 0506525 0. 0406098 SLC11A2 | SLC11A2 |
| 1 0. 0506525 0. 0406098 BCL6 | BCL6 |
| 1 0. 0506525 0. 0406098 IGF1 | IGF1 |
| 1 0. 0506525 0. 0406098 BBS4 | BBS4 |
| 1 0. 0506525 0. 0406098 BBS4 | BBS4 |
| 1 0. 0506525 0. 0406098 GDNF | ATF2 |
| 1 0. 0506525 0. 0406098 PCSK5 | PCSK5 |
| 1 0. 0506525 0. 0406098 ACADM | ACADM |
| 1 0. 0506525 0. 0406098 ENPP1 | ENPP1 |
| 1 0. 0506525 0. 0406098 ENPP1 | ENPP1 |
| 1 0. 0506525 0. 0406098 HIP1 | HIP1 |
| 1 0. 0506525 0. 0406098 SORT1 | SORT1 |
| 2 0. 0508055 0. 0406098 LEF1;MDFIC | LEF1;MDFIC |
| 2 0. 0508055 0. 0406098 OXA1L;SLC25A14 | OXA1L;SLC25A14 |
| 2 0. 0534342 0. 042678 CTNNB1;GRSF1 | CTNNB1;GRSF1 |
| 2 0. 0534342 0. 042678 CDKN2A;PTEN | CDKN2A;PTEN |
| 2 0. 0534342 0. 042678 ZFPM2;DDIT3 | ZFPM2;DDIT3 |
| 2 0. 05611 0. 0447875 LYST;CX3CL1 | LYST;CX3CL1 |
| 2 0. 0588318 0. 046931 TG;DIO2 | TG;DIO2 |
| 1 0. 0604709 0. 0471245 PPARGC1A | PPARGC1A |
| 1 0. 0604709 0. 0471245 PPARGC1A | PPARGC1A |
| 1 0. 0604709 0. 0471245 AKR1C1 | AKR1C1 |
| 1 0. 0604709 0. 0471245 VEGFA | VEGFA |
| 1 0. 0604709 0. 0471245 NRG1 | NRG1 |
| 1 0. 0604709 0. 0471245 PTGS2 | PTGS2 |
| 1 0. 0604709 0. 0471245 EPHX2 | EPHX2 |
| 1 0. 0604709 0. 0471245 ID2 | ID2 |
| 1 0. 0604709 0. 0471245 SGOL1 | SGOL1 |
| 1 0. 0604709 0. 0471245 GCK | GK |
| 1 0. 0604709 0. 0471245 ADAM9 | ADAM9 |
| 1 0. 0604709 0. 0471245 CXCL13 | CXCL13 |
| 1 0. 0604709 0. 0471245 TRERF1 | TRERF1 |
| 1 0. 0604709 0. 0471245 CHD7 | CHD7 |
| 1 0. 0604709 0. 0471245 CHD7 | CHD7 |
| 1 0. 0604709 0. 0471245 DRD4 | DRD4 |
| 1 0. 0604709 0. 0471245 AGRN | AGRN |
| 1 0. 0604709 0. 0471245 HOMER2 | HOMER2 |
| 1 0. 0604709 0. 0471245 CPS1 | CPS1 |
| 1 0. 0604709 0. 0471245 ACTA2 | ACTA2 |

| | | |
|-----------------------|------------------|---|
| 1 0.0604709 0.0471245 | CXCL16 | CXCL16 |
| 1 0.0604709 0.0471245 | NPAS2 | NPAS2 |
| 1 0.0604709 0.0471245 | LRP5 | LRP5 |
| 1 0.0604709 0.0471245 | BBS5 | BBS5 |
| 1 0.0604709 0.0471245 | MYH10 | MYH10 |
| 1 0.0604709 0.0471245 | GTF2A2 | GTF2A2 |
| 1 0.0604709 0.0471245 | KDEL3 | KDEL3 |
| 1 0.0604709 0.0471245 | SOD1 | SOD1 |
| 1 0.0604709 0.0471245 | SOD1 | SOD1 |
| 1 0.0604709 0.0471245 | NOD2 | NOD2 |
| 1 0.0604709 0.0471245 | AGT | AGT |
| 1 0.0604709 0.0471245 | STAT5B | STAT5B |
| 1 0.0604709 0.0471245 | CCND3 | CCND3 |
| 1 0.0604709 0.0471245 | SLC22A5 | SLC22A5 |
| 1 0.0604709 0.0471245 | PLEKHA8 | PLEKHA8 |
| 1 0.0604709 0.0471245 | HPRT1 | HPRT1 |
| 1 0.0604709 0.0471245 | IL6 | HGF |
| 1 0.0604709 0.0471245 | EIF5A | EIF5A |
| 1 0.0604709 0.0471245 | OLA1 | OLA1 |
| 1 0.0604709 0.0471245 | GTF3C1 | GTF3C1 |
| 1 0.0604709 0.0471245 | GTF3C1 | GTF3C1 |
| 1 0.0604709 0.0471245 | ERCC3 | ERCC3 |
| 1 0.0604709 0.0471245 | ERCC3 | ERCC3 |
| 1 0.0604709 0.0471245 | HTT | HTT |
| 1 0.0604709 0.0471245 | UCL1 | UCL1 |
| 1 0.0604709 0.0471245 | SUPT16H | SUPT16H |
| 1 0.0604709 0.0471245 | BBS4 | BBS4 |
| 1 0.0604709 0.0471245 | CAV1 | CAV1 |
| 1 0.0604709 0.0471245 | ATXN1 | ATXN1 |
| 1 0.0604709 0.0471245 | TIMM9 | TIMM9 |
| 1 0.0604709 0.0471245 | TGFBR2 | TGFBR2 |
| 1 0.0604709 0.0471245 | TGFBR2 | TGFBR2 |
| 1 0.0604709 0.0471245 | PTS | PTS |
| 4 0.0632855 0.0490743 | SMAD3;DPP4;PRLR | SMAD3;DPP4;PRLR;NCK1 |
| 8 0.0641742 0.0497485 | UBE2D3;UBE2C;BII | UBE2D3;UBE2C;BIRC6;UBE2V1;UBE2B;UBE2Q2;UBE2F; |
| 3 0.0652914 0.0505842 | PPARGC1A;RAB3A;I | PPARGC1A;RAB3A;HTT |
| 3 0.0670444 0.051919 | PRKAR2B;RAPGEF4 | PRKAR2B;RAPGEF4;CCDC88C |
| 2 0.0672602 0.0520548 | MAPRE3;MAPRE3;I | EBF3;MAPRE3;IGF1 |
| 2 0.0672602 0.0520548 | LOR;PPL | LOR;PPL |
| 2 0.0701533 0.053583 | CDKN1A;CUL4A | CDKN1A;CUL4A |
| 2 0.0701533 0.053583 | KCNMB4;KCNMA1 | KCNMB4;KCNMA1 |
| 1 0.0701879 0.053583 | CHST1 | CHST1 |
| 1 0.0701879 0.053583 | EDN1 | EDN1 |
| 1 0.0701879 0.053583 | EDN1 | EDN1 |
| 1 0.0701879 0.053583 | SMAD3 | SMAD3 |
| 1 0.0701879 0.053583 | HOXB6 | HOXB6 |
| 1 0.0701879 0.053583 | ETS1 | ETS1 |
| 1 0.0701879 0.053583 | APOL1 | APOL1 |
| 1 0.0701879 0.053583 | EGR2 | EGR2 |
| 1 0.0701879 0.053583 | SLC6A3 | SLC6A3 |
| 1 0.0701879 0.053583 | CPS1 | CPS1 |
| 1 0.0701879 0.053583 | NTAL_HUMAN | LAT2 |

| | | | | |
|---|-----------|-----------|-----------------|------------------|
| 1 | 0.0701879 | 0.053583 | PPARG | PPARG |
| 1 | 0.0701879 | 0.053583 | PPARG | PPARG |
| 1 | 0.0701879 | 0.053583 | COL11A1 | COL11A1 |
| 1 | 0.0701879 | 0.053583 | IL6ST | IL6ST |
| 1 | 0.0701879 | 0.053583 | IL6ST | IL6ST |
| 1 | 0.0701879 | 0.053583 | SMO | SMO |
| 1 | 0.0701879 | 0.053583 | CMAS | CMAS |
| 1 | 0.0701879 | 0.053583 | BCL3 | BCL3 |
| 1 | 0.0701879 | 0.053583 | SLU7 | SLU7 |
| 1 | 0.0701879 | 0.053583 | BNIP3L | BNIP3L |
| 1 | 0.0701879 | 0.053583 | SIRPG | SIRPG |
| 1 | 0.0701879 | 0.053583 | HMGCR | HMGCR |
| 1 | 0.0701879 | 0.053583 | DLG4 | DLG4 |
| 1 | 0.0701879 | 0.053583 | NOD2 | NOD2 |
| 1 | 0.0701879 | 0.053583 | STAT5B | STAT5B |
| 1 | 0.0701879 | 0.053583 | TN13B_HUMAN | TNFSF13B |
| 1 | 0.0701879 | 0.053583 | RARB | RARB |
| 1 | 0.0701879 | 0.053583 | IL6 | HGF |
| 1 | 0.0701879 | 0.053583 | APAF1 | APAF1 |
| 1 | 0.0701879 | 0.053583 | TTF2 | TTF2 |
| 1 | 0.0701879 | 0.053583 | HTT | HTT |
| 1 | 0.0701879 | 0.053583 | CDA | CDA |
| 1 | 0.0701879 | 0.053583 | MYCBP2 | MYCBP2 |
| 1 | 0.0701879 | 0.053583 | ADH5 | ADH5 |
| 1 | 0.0701879 | 0.053583 | TRPV1 | TRPV1 |
| 1 | 0.0701879 | 0.053583 | HBEGF | HBEGF |
| 1 | 0.0701879 | 0.053583 | IGF1 | IGF1 |
| 1 | 0.0701879 | 0.053583 | IGF1 | IGF1 |
| 1 | 0.0701879 | 0.053583 | LIPC | LIPC |
| 3 | 0.0724307 | 0.0549452 | KCNA5;CHRNE;KCN | HK2;CHRNE;KCNMA1 |
| 2 | 0.0760584 | 0.0576802 | SOD1;AGT | SOD1;AGT |
| 1 | 0.0798044 | 0.0594429 | ZNF143 | ZNF143 |
| 1 | 0.0798044 | 0.0594429 | EDN1 | EDN1 |
| 1 | 0.0798044 | 0.0594429 | THBS1 | THBS1 |
| 1 | 0.0798044 | 0.0594429 | GRK5 | GRK5 |
| 1 | 0.0798044 | 0.0594429 | ITGB8 | ITGB8 |
| 1 | 0.0798044 | 0.0594429 | CD81 | CD81 |
| 1 | 0.0798044 | 0.0594429 | HSD17B4 | DBP |
| 1 | 0.0798044 | 0.0594429 | ECE1 | ECE1 |
| 1 | 0.0798044 | 0.0594429 | SHROOM2 | SHROOM2 |
| 1 | 0.0798044 | 0.0594429 | EEA1 | EEA1 |
| 1 | 0.0798044 | 0.0594429 | GNPDA1 | GPI |
| 1 | 0.0798044 | 0.0594429 | ALDH1A3 | ALDH1A3 |
| 1 | 0.0798044 | 0.0594429 | CD74 | CD74 |
| 1 | 0.0798044 | 0.0594429 | UBE2V1 | UBE2V1 |
| 1 | 0.0798044 | 0.0594429 | ADC | ADC |
| 1 | 0.0798044 | 0.0594429 | MYH10 | MYH10 |
| 1 | 0.0798044 | 0.0594429 | ERCC4 | RAD1 |
| 1 | 0.0798044 | 0.0594429 | HMGCR | HMGCR |
| 1 | 0.0798044 | 0.0594429 | IRAK2 | IRAK2 |
| 1 | 0.0798044 | 0.0594429 | SOD1 | SOD1 |
| 1 | 0.0798044 | 0.0594429 | DGKD | DGKD |

| | |
|--|------------------|
| 1 0.0798044 0.0594429 ADAMTS1 | ADAMTS1 |
| 1 0.0798044 0.0594429 PDGFA | PDGFA |
| 1 0.0798044 0.0594429 MARK2 | MARK2 |
| 1 0.0798044 0.0594429 DNAJB6 | DNAJB6 |
| 1 0.0798044 0.0594429 HEXA | HEXA |
| 1 0.0798044 0.0594429 ATP6V1H | ATP6V1H |
| 1 0.0798044 0.0594429 IL6 | HGF |
| 1 0.0798044 0.0594429 SLC20A2 | SLC20A2 |
| 1 0.0798044 0.0594429 SMAD1 | SMAD1 |
| 1 0.0798044 0.0594429 OXA1L | OXA1L |
| 1 0.0798044 0.0594429 HOXB8 | HOXB8 |
| 1 0.0798044 0.0594429 ERCC3 | ERCC3 |
| 1 0.0798044 0.0594429 FAH | FAH |
| 1 0.0798044 0.0594429 MAOA | MAOA |
| 1 0.0798044 0.0594429 IGF1 | IGF1 |
| 1 0.0798044 0.0594429 GDNF | ATF2 |
| 1 0.0798044 0.0594429 RUFY3 | RUFY3 |
| 1 0.0798044 0.0594429 PCSK5 | PCSK5 |
| 1 0.0798044 0.0594429 ENPP1 | ENPP1 |
| 1 0.0798044 0.0594429 LEP | LEP |
| 3 0.0799016 0.0594429 CA2;TIMELESS;CA9 | CA2;TIMELESS;CA9 |
| 2 0.0821142 0.0610714 ZFYVE16;CDH13 | ZFYVE16;CDH13 |
| 2 0.0851958 0.0633178 CTNNB1;NLGN4X | CTNNB1;NLGN4X |
| 2 0.0851958 0.0633178 PTGS2;BCL6 | PTGS2;BCL6 |
| 2 0.088312 0.0655771 EDN1;IL6 | EDN1;HGF |
| 2 0.088312 0.0655771 MEN1;CARD8 | MEN1;CARD8 |
| 1 0.0893214 0.0658504 COQ7 | CLK1 |
| 1 0.0893214 0.0658504 MICA | MICA |
| 1 0.0893214 0.0658504 TOP2A | TOP2A |
| 1 0.0893214 0.0658504 MAP1B | MAP1B |
| 1 0.0893214 0.0658504 MYL3 | MYL3 |
| 1 0.0893214 0.0658504 NBN | NBN |
| 1 0.0893214 0.0658504 ERO1L | ERO1L |
| 1 0.0893214 0.0658504 AAMP | AAMP |
| 1 0.0893214 0.0658504 FGD6 | FGD6 |
| 1 0.0893214 0.0658504 BMPR1B | BMPR1B |
| 1 0.0893214 0.0658504 BRCA2 | BRCA2 |
| 1 0.0893214 0.0658504 ITGA1 | ITGA1 |
| 1 0.0893214 0.0658504 IL6 | HGF |
| 1 0.0893214 0.0658504 MAN2A2 | MAN2A2 |
| 1 0.0893214 0.0658504 CDH13 | CDH13 |
| 1 0.0893214 0.0658504 CDH13 | CDH13 |
| 1 0.0893214 0.0658504 TAF1A | TAF1A |
| 1 0.0893214 0.0658504 HTT | HTT |
| 1 0.0893214 0.0658504 PEX14 | PEX14 |
| 1 0.0893214 0.0658504 PEX14 | PEX14 |
| 1 0.0893214 0.0658504 BCL6 | BCL6 |
| 1 0.0893214 0.0658504 BBS4 | BBS4 |
| 1 0.0893214 0.0658504 METTL3 | METTL3 |
| 1 0.0893214 0.0658504 IGFBP3 | IGFBP3 |
| 1 0.0893214 0.0658504 PCSK5 | PCSK5 |
| 1 0.0893214 0.0658504 F12 | F12 |

| | | | | |
|---|-----------|-----------|--|--|
| 1 | 0.0893214 | 0.0658504 | ADI1 | ADI1 |
| 1 | 0.0893214 | 0.0658504 | LEP | LEP |
| 1 | 0.0893214 | 0.0658504 | TGFBR2 | TGFBR2 |
| 1 | 0.0893214 | 0.0658504 | MTHFSD | MTHFSD |
| 3 | 0.0896871 | 0.0658504 | SNUPN;HTT;TPR | SNUPN;HTT;TPR |
| 3 | 0.0896871 | 0.0658504 | AGT;HTT;LEP | AGT;HTT;LEP |
| 2 | 0.0914615 | 0.0670865 | NOTCH4;COL13A1;NOTCH3;COL13A1;NOTCH4 | NOTCH4;COL13A1;NOTCH3;COL13A1;NOTCH4 |
| 2 | 0.0914615 | 0.0670865 | MPHOSPH1;CDC16 | MPP1;CDC16 |
| 2 | 0.0914615 | 0.0670865 | HEMK1;METTL4 | HEMK1;METTL4 |
| 3 | 0.0937349 | 0.0687052 | GPI;FLI1;HPS4 | GPI;FLI1;HPS4 |
| 2 | 0.0946434 | 0.0693416 | RCAN1;HOMER1 | RCAN1;HOMER1 |
| 2 | 0.0946434 | 0.0693416 | HOXB6;HMOX1 | HOXB6;HMOX1 |
| 2 | 0.0978567 | 0.0716349 | ACTN1;SP100 | ACTN1;SP100 |
| 2 | 0.0978567 | 0.0716349 | TCEA3;TCEA2 | TCEA3;TCEA2 |
| 5 | 0.0986026 | 0.0718539 | TUBG2;GTSE1;MAP3K11;KIFAP3;DLC1 | TUBG2;GTSE1;MAP3K11;KIFAP3;DLC1 |
| 1 | 0.09874 | 0.0718539 | C3 | C3 |
| 1 | 0.09874 | 0.0718539 | SPAM1;SPAM1 | HYAL1;HYAL3 |
| 1 | 0.09874 | 0.0718539 | EGR2 | EGR2 |
| 1 | 0.09874 | 0.0718539 | NF1 | NF1 |
| 1 | 0.09874 | 0.0718539 | NF1 | NF1 |
| 1 | 0.09874 | 0.0718539 | ABCA1 | ABCA1 |
| 1 | 0.09874 | 0.0718539 | GBF1 | GBF1 |
| 1 | 0.09874 | 0.0718539 | COL1A1 | COL1A1 |
| 1 | 0.09874 | 0.0718539 | BRCA2 | BRCA2 |
| 1 | 0.09874 | 0.0718539 | SORBS1 | SORBS1 |
| 1 | 0.09874 | 0.0718539 | TCF7L2;TCF7L2 | TCF7L2;TCF4 |
| 1 | 0.09874 | 0.0718539 | PRKCD | PRKCD |
| 1 | 0.09874 | 0.0718539 | SCUBE3 | SCUBE3 |
| 1 | 0.09874 | 0.0718539 | SLC22A14 | SLC22A14 |
| 1 | 0.09874 | 0.0718539 | ALS2 | ALS2 |
| 1 | 0.09874 | 0.0718539 | IGF1 | IGF1 |
| 1 | 0.09874 | 0.0718539 | LIPC | LIPC |
| 1 | 0.09874 | 0.0718539 | SPTBN1 | SPTBN1 |
| 1 | 0.09874 | 0.0718539 | LONP1 | PIM1 |
| 1 | 0.09874 | 0.0718539 | TGFBR2 | TGFBR2 |
| 1 | 0.09874 | 0.0718539 | SORT1 | SORT1 |
| 2 | 0.1043734 | 0.0755172 | EGFR;PDGFRB | EGFR;PDGFRB |
| 2 | 0.1043734 | 0.0755172 | JAG1;BDNF | JAG1;BDNF |
| 6 | 0.104936 | 0.0758818 | ACSS2;MOGAT1;LA;ACSS2;MGAT1;CERS4;PC;CERS5;A4GALT | ACSS2;MGAT1;CERS4;PC;CERS5;A4GALT |
| 9 | 0.1071917 | 0.0774912 | SLC9A8;SLC41A3;SLC9A8;SLC41A3;ATP2B4;SLC9A9;SFXN5;ATP10D;ATP | SLC9A8;SLC41A3;SLC9A8;SLC41A3;ATP2B4;SLC9A9;SFXN5;ATP10D;ATP |
| 2 | 0.1076749 | 0.0777391 | SMO;CHST11 | SMO;CHST11 |
| 2 | 0.1076749 | 0.0777391 | PCNA;CDK2 | PCNA;CDK2 |
| 1 | 0.1080613 | 0.0777391 | PRKCZ | PRKCZ |
| 1 | 0.1080613 | 0.0777391 | RCAN1 | RCAN1 |
| 1 | 0.1080613 | 0.0777391 | NDRG1 | NDRG1 |
| 1 | 0.1080613 | 0.0777391 | PDGFRA | PDGFRA |
| 1 | 0.1080613 | 0.0777391 | BRSK2 | BRSK2 |
| 1 | 0.1080613 | 0.0777391 | HNRNPF | HNRNPF |
| 1 | 0.1080613 | 0.0777391 | CRYZL1 | CRYZL1 |
| 1 | 0.1080613 | 0.0777391 | HMOX1 | HMOX1 |
| 1 | 0.1080613 | 0.0777391 | DYNC2H1 | DYNC2H1 |
| 1 | 0.1080613 | 0.0777391 | LPIN1 | LPIN1 |

| | |
|--|-----------------------|
| 1 0. 1080613 0. 0777391 NF1 | NF1 |
| 1 0. 1080613 0. 0777391 ZFP36L1 | ZFP36L1 |
| 1 0. 1080613 0. 0777391 PPARG | PPARG |
| 1 0. 1080613 0. 0777391 SORBS1 | SORBS1 |
| 1 0. 1080613 0. 0777391 TLR3 | TLR3 |
| 1 0. 1080613 0. 0777391 VTI1A | VTI1A |
| 1 0. 1080613 0. 0777391 EIF2B4 | EIF2B4 |
| 1 0. 1080613 0. 0777391 FLNA | FLNA |
| 1 0. 1080613 0. 0777391 PRKAG2 | PRKAG2 |
| 1 0. 1080613 0. 0777391 HOPX | HOPX |
| 8 0. 1099976 0. 078792 FN1;CX3CR1;ADM;FN1;CCRL1;ADM;TNC;MDK;CASP3;SLC1A3;LYVE1 | |
| 2 0. 111004 0. 0794908 CCND3;PRKAG2 | CCND3;PRKAG2 |
| 1 0. 1172862 0. 0836071 PAPD4 | PAPD4 |
| 1 0. 1172862 0. 0836071 NF1 | NF1 |
| 1 0. 1172862 0. 0836071 NF1 | NF1 |
| 1 0. 1172862 0. 0836071 NF1 | NF1 |
| 1 0. 1172862 0. 0836071 LAMC1 | LAMB2 |
| 1 0. 1172862 0. 0836071 MYL3 | MYL3 |
| 1 0. 1172862 0. 0836071 SMS | SMS |
| 1 0. 1172862 0. 0836071 AGT | AGT |
| 1 0. 1172862 0. 0836071 GDF5 | GDF5 |
| 1 0. 1172862 0. 0836071 SRPK1 | SRPK1 |
| 1 0. 1172862 0. 0836071 HTT | HTT |
| 1 0. 1172862 0. 0836071 SYCP2 | SCP2 |
| 1 0. 1172862 0. 0836071 IGF1 | IGF1 |
| 1 0. 1172862 0. 0836071 BBS4 | BBS4 |
| 1 0. 1172862 0. 0836071 FAS | FAS |
| 1 0. 1172862 0. 0836071 NCR1 | NCR1 |
| 2 0. 1211471 0. 0859678 ALDOA;MYH7B;MYH14;MYH7B | ALDOA;MYH14;MYH7B |
| 2 0. 1245771 0. 0883169 ETS1;BCL6 | ETS1;BCL6 |
| 3 0. 1263209 0. 0892041 ALS2CR12;ARHGAP6;GDI1 | ALS2CR12;ARHGAP6;GDI1 |
| 3 0. 1263209 0. 0892041 MCM7;BARD1;MCM7 | MCM7;BARD1;MCM2;RAD17 |
| 1 0. 1264157 0. 0892041 CTNNB1 | CTNNB1 |
| 1 0. 1264157 0. 0892041 EGFR | EGFR |
| 1 0. 1264157 0. 0892041 SMAD3 | SMAD3 |
| 1 0. 1264157 0. 0892041 SLC8A1 | SLC8A1 |
| 1 0. 1264157 0. 0892041 AGRN | AGRN |
| 1 0. 1264157 0. 0892041 MITF | MITF |
| 1 0. 1264157 0. 0892041 AQP3 | AQP3 |
| 1 0. 1264157 0. 0892041 ABCA1 | ABCA1 |
| 1 0. 1264157 0. 0892041 ABCA1 | ABCA1 |
| 1 0. 1264157 0. 0892041 ART4 | DOK1 |
| 1 0. 1264157 0. 0892041 SHMT1 | SHMT1 |
| 1 0. 1264157 0. 0892041 BCL3 | BCL3 |
| 1 0. 1264157 0. 0892041 GUCY1B3 | GUCY1B3 |
| 1 0. 1264157 0. 0892041 PKIG | PKIG |
| 1 0. 1264157 0. 0892041 OXSM | OXSM |
| 1 0. 1264157 0. 0892041 AGXT | AGT |
| 1 0. 1264157 0. 0892041 BDNF | BDNF |
| 1 0. 1264157 0. 0892041 MYL6B | MYL6B |
| 1 0. 1264157 0. 0892041 FOXE1 | TTF2 |
| 1 0. 1264157 0. 0892041 TJP1 | TJP1 |

| | | | | | | |
|---|----|---------|----|---------|------------------|-------------------------------------|
| 1 | 0. | 1264157 | 0. | 0892041 | HISPPD1 | PIIP5K2 |
| 1 | 0. | 1264157 | 0. | 0892041 | IGF1 | IGF1 |
| 1 | 0. | 1264157 | 0. | 0892041 | SLC1A3 | SLC1A3 |
| 2 | 0. | 1315056 | 0. | 0924296 | PPARGC1A;SDHA | PPARGC1A;SDHA |
| 2 | 0. | 1350023 | 0. | 0948615 | BMPR1B;PCSK5 | BMPR1B;PCSK5 |
| 1 | 0. | 1354508 | 0. | 0950086 | RORA;RORA;RORA | RORA;ROR1;ROR2 |
| 1 | 0. | 1354508 | 0. | 0950086 | RIF1 | RIF1 |
| 1 | 0. | 1354508 | 0. | 0950086 | SLC6A3 | SLC6A3 |
| 1 | 0. | 1354508 | 0. | 0950086 | EGLN1 | EGLN1 |
| 1 | 0. | 1354508 | 0. | 0950086 | SMO | SMO |
| 1 | 0. | 1354508 | 0. | 0950086 | CEP290 | CEP290 |
| 1 | 0. | 1354508 | 0. | 0950086 | TIMELESS | TIMELESS |
| 1 | 0. | 1354508 | 0. | 0950086 | PTH1R | PTH1R |
| 1 | 0. | 1354508 | 0. | 0950086 | KCNMA1 | KCNMA1 |
| 1 | 0. | 1354508 | 0. | 0950086 | CASP3 | CASP3 |
| 1 | 0. | 1354508 | 0. | 0950086 | GBGT1 | GBGT1 |
| 2 | 0. | 1385197 | 0. | 0969638 | GBA;FA2H | GBA;FAAH |
| 2 | 0. | 1420568 | 0. | 0994128 | HOXC8;PRKRA | HOXC8;PRKRA |
| 1 | 0. | 1443924 | 0. | 100897 | GCK | GK |
| 1 | 0. | 1443924 | 0. | 100897 | CHIT1 | CHIT1 |
| 1 | 0. | 1443924 | 0. | 100897 | CLN5 | NCL |
| 1 | 0. | 1443924 | 0. | 100897 | SEMA3A | SEMA3A |
| 1 | 0. | 1443924 | 0. | 100897 | BMPR1B | BMPR1B |
| 1 | 0. | 1443924 | 0. | 100897 | CD01 | CD01 |
| 1 | 0. | 1443924 | 0. | 100897 | METAP2 | MAP2 |
| 1 | 0. | 1443924 | 0. | 100897 | CPOX | CPOX |
| 1 | 0. | 1443924 | 0. | 100897 | SLC01B1 | LST1 |
| 2 | 0. | 1456129 | 0. | 1015986 | MSH2;FAS | MSH2;FAS |
| 2 | 0. | 1491872 | 0. | 1040504 | APOB;SYCP2 | APOB;SCP2 |
| 4 | 0. | 1525422 | 0. | 1063472 | ZIC1;SIX1;SMO;SI | ZIC1;SIX1;SMO;SHROOM3 |
| 2 | 0. | 152779 | 0. | 1064692 | IGF2BP1;MAP2K3 | IGF2BP1;MAP2K3 |
| 2 | 0. | 152779 | 0. | 1064692 | CD81;PITPNM3 | CD81;PITPNM3 |
| 1 | 0. | 1532417 | 0. | 1065473 | CD55 | CD55 |
| 1 | 0. | 1532417 | 0. | 1065473 | RAB3A | RAB3A |
| 1 | 0. | 1532417 | 0. | 1065473 | PITX1 | PITX1 |
| 1 | 0. | 1532417 | 0. | 1065473 | SLC7A8;SLC7A8 | LAT2;SLC7A8 |
| 1 | 0. | 1532417 | 0. | 1065473 | GABBR1 | GABBR1 |
| 1 | 0. | 1532417 | 0. | 1065473 | CDH13 | CDH13 |
| 1 | 0. | 1532417 | 0. | 1065473 | VLDLR | FLJ35024 |
| 1 | 0. | 1532417 | 0. | 1065473 | GLMN | FAP |
| 1 | 0. | 1532417 | 0. | 1065473 | SLC1A3 | SLC1A3 |
| 1 | 0. | 1532417 | 0. | 1065473 | ABL2 | ABL2 |
| 1 | 0. | 1619994 | 0. | 1122136 | EDN1 | EDN1 |
| 1 | 0. | 1619994 | 0. | 1122136 | EDN1 | EDN1 |
| 1 | 0. | 1619994 | 0. | 1122136 | AKR1C3 | AKR1C3 |
| 1 | 0. | 1619994 | 0. | 1122136 | AK5 | AK5 |
| 1 | 0. | 1619994 | 0. | 1122136 | IFT172 | IFT172 |
| 1 | 0. | 1619994 | 0. | 1122136 | NOD2 | NOD2 |
| 1 | 0. | 1619994 | 0. | 1122136 | TLR1 | TLR1 |
| 1 | 0. | 1619994 | 0. | 1122136 | FLT4 | FLT4 |
| 5 | 0. | 1665337 | 0. | 1151383 | CROCC;DYNC2LI1;I | CROCC;DYNC2LI1;DYNC2H1;CEP290;DNAI1 |
| 2 | 0. | 1673062 | 0. | 115626 | STRADB;TGFB2 | STRADB;TGFB2 |

| | | | | | | |
|----|----|---------|----|---------|-----------------|---|
| 1 | 0. | 1706666 | 0. | 1175478 | SLC16A4 | SLC16A4 |
| 1 | 0. | 1706666 | 0. | 1175478 | LYST | LYST |
| 1 | 0. | 1706666 | 0. | 1175478 | SLC7A8;SLC7A8 | LAT2;SLC7A8 |
| 1 | 0. | 1706666 | 0. | 1175478 | HEXB | HEXB |
| 1 | 0. | 1706666 | 0. | 1175478 | NPM1 | NPM1 |
| 1 | 0. | 1706666 | 0. | 1175478 | FBXO2 | FBXO2 |
| 1 | 0. | 1706666 | 0. | 1175478 | SNCAIP | SNCAIP |
| 1 | 0. | 1706666 | 0. | 1175478 | NEDD4 | NEDD4 |
| 1 | 0. | 1706666 | 0. | 1175478 | AGTPBP1 | AGTPBP1 |
| 1 | 0. | 1706666 | 0. | 1175478 | KRT3 | KRT3 |
| 1 | 0. | 1706666 | 0. | 1175478 | GLMN | FAP |
| 1 | 0. | 1706666 | 0. | 1175478 | TIE1 | TIE1 |
| 2 | 0. | 1709745 | 0. | 1175478 | PDGFA;DLC1 | PDGFA;DLC1 |
| 2 | 0. | 174656 | 0. | 120031 | TSGA10;RAC2 | TSGA10;RAC2 |
| 3 | 0. | 1748986 | 0. | 1201498 | JAG1;BCL6;HOPX | JAG1;BCL6;HOPX |
| 1 | 0. | 1792442 | 0. | 1229552 | THBS1 | THBS1 |
| 1 | 0. | 1792442 | 0. | 1229552 | MCHR1 | MCHR1 |
| 1 | 0. | 1792442 | 0. | 1229552 | THRB | THRB |
| 1 | 0. | 1792442 | 0. | 1229552 | WNT9B | WNT9B |
| 1 | 0. | 1792442 | 0. | 1229552 | FOXE1 | TTF2 |
| 1 | 0. | 1792442 | 0. | 1229552 | EPC1 | EPC1 |
| 1 | 0. | 1792442 | 0. | 1229552 | LST1 | LST1 |
| 1 | 0. | 1792442 | 0. | 1229552 | BCL6 | BCL6 |
| 2 | 0. | 1820559 | 0. | 1247018 | NR3C1;FAS | NR3C1;FAS |
| 12 | 0. | 1855541 | 0. | 1270642 | WNK4;CROCC;CD81 | WNK4;CROCC;CD81;CEP250;SQSTM1;NBEA;NPM1;VPS13 |
| 1 | 0. | 187733 | 0. | 1282334 | ST6GAL2 | ST6GAL2 |
| 1 | 0. | 187733 | 0. | 1282334 | SCAMP1 | SCAMP1 |
| 1 | 0. | 187733 | 0. | 1282334 | SORBS3 | SORBS3 |
| 1 | 0. | 187733 | 0. | 1282334 | GC | DBP |
| 1 | 0. | 187733 | 0. | 1282334 | PPARG | PPARG |
| 1 | 0. | 187733 | 0. | 1282334 | NPHP1 | NPHP1 |
| 1 | 0. | 187733 | 0. | 1282334 | CLASP2 | CLASP2 |
| 1 | 0. | 187733 | 0. | 1282334 | NOD2 | NOD2 |
| 1 | 0. | 187733 | 0. | 1282334 | STAT5B | STAT5B |
| 1 | 0. | 187733 | 0. | 1282334 | ING5 | ING5 |
| 1 | 0. | 187733 | 0. | 1282334 | TMOD1 | TMOD1 |
| 1 | 0. | 187733 | 0. | 1282334 | ALDH1A2 | ALDH1A2 |
| 1 | 0. | 1961341 | 0. | 1333722 | LDLRAP1 | LDLRAP1 |
| 1 | 0. | 1961341 | 0. | 1333722 | LYN | LYN |
| 1 | 0. | 1961341 | 0. | 1333722 | NF1 | NF1 |
| 1 | 0. | 1961341 | 0. | 1333722 | GRIA3 | GRIA3 |
| 1 | 0. | 1961341 | 0. | 1333722 | MAP4K2 | MAP4K2 |
| 1 | 0. | 1961341 | 0. | 1333722 | BDNF | BDNF |
| 1 | 0. | 1961341 | 0. | 1333722 | PEX14 | PEX14 |
| 1 | 0. | 1961341 | 0. | 1333722 | SOD3 | SOD3 |
| 2 | 0. | 1969858 | 0. | 1336874 | ALOX15B;ING5 | ALOX15B;ING5 |
| 2 | 0. | 1969858 | 0. | 1336874 | BCL3;RUNX1T1 | BCL3;RUNX1T1 |
| 1 | 0. | 2044484 | 0. | 1386063 | NLGN4X | NLGN4X |
| 1 | 0. | 2044484 | 0. | 1386063 | LASS4 | CERS4 |
| 1 | 0. | 2044484 | 0. | 1386063 | SOD1 | SOD1 |
| 1 | 0. | 2044484 | 0. | 1386063 | TLR3 | TLR3 |
| 1 | 0. | 2126766 | 0. | 1438638 | IL6ST | IL6ST |

| | |
|--|------------------------------|
| 1 0. 2126766 0. 1438638 DSCR3 | DSCR3 |
| 1 0. 2126766 0. 1438638 PAG1 | PAG1 |
| 1 0. 2126766 0. 1438638 IL6 | HGF |
| 1 0. 2126766 0. 1438638 IL6 | HGF |
| 1 0. 2126766 0. 1438638 PRKAG2 | PRKAG2 |
| 1 0. 2126766 0. 1438638 CTPS2 | CTPS2 |
| 1 0. 2126766 0. 1438638 LEP | LEP |
| 2 0. 2158422 0. 1458142 PDPK1;PIK3R1 | PDK1;PIK3R1 |
| 2 0. 2158422 0. 1458142 UACA;CALCOCO2 | UACA;CALCOCO2 |
| 1 0. 2208198 0. 1489431 CTNNB1 | CTNNB1 |
| 1 0. 2208198 0. 1489431 DCT | DCT |
| 1 0. 2208198 0. 1489431 IFT172 | IFT172 |
| 1 0. 2208198 0. 1489431 COL1A1 | COL1A1 |
| 1 0. 2208198 0. 1489431 DNPEP | DNPEP |
| 1 0. 2208198 0. 1489431 CHST11 | CHST11 |
| 1 0. 2208198 0. 1489431 IGF1 | IGF1 |
| 2 0. 2272325 0. 1530088 CHST6;MOCS2 | CHST6;MOCS2 |
| 1 0. 2288788 0. 1539768 EDN1 | EDN1 |
| 1 0. 2288788 0. 1539768 ERAP1 | ERAP1 |
| 1 0. 2288788 0. 1539768 SHROOM2 | SHROOM2 |
| 1 0. 2288788 0. 1539768 SREBF1 | SREBF1 |
| 1 0. 2288788 0. 1539768 CD40 | CD40 |
| 1 0. 2288788 0. 1539768 SORT1 | SORT1 |
| 1 0. 2368545 0. 1590524 ADAM9 | ADAM9 |
| 1 0. 2368545 0. 1590524 NBN | NBN |
| 1 0. 2368545 0. 1590524 SMO | SMO |
| 1 0. 2368545 0. 1590524 EDNRA | EDNRA |
| 3 0. 2385705 0. 1600591 HES1;MYCBP2;SLC | HES1;MYCBP2;SLC1A3 |
| 2 0. 2424796 0. 1626184 BANK1;NTAL_HUMAN | BANK1;LAT2 |
| 1 0. 2447477 0. 1639692 MEN1 | MEN1 |
| 1 0. 2447477 0. 1639692 TLR3 | TLR3 |
| 1 0. 2447477 0. 1639692 MICB | MICB |
| 1 0. 2447477 0. 1639692 TGFBR2 | TGFBR2 |
| 2 0. 2462989 0. 164816 PCNP;PPP2CB | PCNP;PPP2CB |
| 2 0. 2462989 0. 164816 TSHR;PTH1R | TSHR;PTH1R |
| 2 0. 2462989 0. 164816 CEP120;MYCBP2 | CEP120;MYCBP2 |
| 3 0. 2468045 0. 1650689 LPL;PLA2G2A;PLCL | LPL;PLA2G2A;PLCD1 |
| 5 0. 2498782 0. 1670814 BRSK2;HOXC8;STM | BRSK2;HOXC8;STMN2;EPHA2;TLX1 |
| 1 0. 2525592 0. 1686994 ST3GAL6 | ST3GAL6 |
| 1 0. 2525592 0. 1686994 ERAP1 | ERAP1 |
| 1 0. 2525592 0. 1686994 AGT | AGT |
| 1 0. 2525592 0. 1686994 RCVRN | RCVRN |
| 1 0. 2525592 0. 1686994 CBS | CBS |
| 1 0. 2525592 0. 1686994 CAV1 | CAV1 |
| 1 0. 2602901 0. 1735043 ST3GAL6 | ST3GAL6 |
| 1 0. 2602901 0. 1735043 SOX9 | SOX9 |
| 1 0. 2602901 0. 1735043 NF1 | NF1 |
| 1 0. 2602901 0. 1735043 RCVRN | RCVRN |
| 1 0. 2602901 0. 1735043 CAV1 | CAV1 |
| 1 0. 2679409 0. 1782133 NF1 | NF1 |
| 1 0. 2679409 0. 1782133 CTTNBP2 | CTTNBP2 |
| 1 0. 2679409 0. 1782133 MPZL3 | MPZL3 |

| | | | | | | |
|---|----|---------|----|---------|------------------------------------|------------------------------------|
| 2 | 0. | 2692418 | 0. | 1789173 | AR;DMRTA1 | AR;DMRTA1 |
| 2 | 0. | 2730662 | 0. | 181412 | AK5;ATP6V1B1 | AK5;ATP6V1B1 |
| 1 | 0. | 2755127 | 0. | 1828258 | HMOX1 | HMOX1 |
| 1 | 0. | 2755127 | 0. | 1828258 | CPS1 | CPS1 |
| 1 | 0. | 2755127 | 0. | 1828258 | CELSR2 | CELSR2 |
| 1 | 0. | 2755127 | 0. | 1828258 | CEP120 | CEP120 |
| 1 | 0. | 2755127 | 0. | 1828258 | EPHB2 | EPHB2 |
| 1 | 0. | 2830061 | 0. | 1874371 | NRG1 | NRG1 |
| 1 | 0. | 2830061 | 0. | 1874371 | STAT1 | STAT1 |
| 1 | 0. | 2830061 | 0. | 1874371 | PIGU | GAB1 |
| 1 | 0. | 2830061 | 0. | 1874371 | TMOD2 | TMOD2 |
| 1 | 0. | 2830061 | 0. | 1874371 | FAS | FAS |
| 1 | 0. | 2904221 | 0. | 1918814 | PGAP1;PGAP1 | BST1;PGAP1 |
| 1 | 0. | 2904221 | 0. | 1918814 | NOTCH3 | NOTCH3 |
| 1 | 0. | 2904221 | 0. | 1918814 | SERPINE2 | SERPINE2 |
| 1 | 0. | 2904221 | 0. | 1918814 | BCL3 | BCL3 |
| 1 | 0. | 2904221 | 0. | 1918814 | TNXB | TNXB |
| 1 | 0. | 2904221 | 0. | 1918814 | NSMAF | NSMAF |
| 1 | 0. | 2904221 | 0. | 1918814 | ALG9 | ALG9 |
| 6 | 0. | 2963657 | 0. | 1955832 | ADCY3;SLC6A3;GNAS;GRM7;BBS4;OR11A1 | ADCY3;SLC6A3;GNAS;GRM7;BBS4;OR11A1 |
| 1 | 0. | 2977614 | 0. | 196429 | PDE6B | PDE6B |
| 1 | 0. | 2977614 | 0. | 196429 | AHR | AHR |
| 1 | 0. | 3050248 | 0. | 2011435 | SYN2 | SYN2 |
| 1 | 0. | 3122131 | 0. | 2058312 | HES1 | HES1 |
| 2 | 0. | 3187816 | 0. | 2101079 | MYCBP2;NEXN | MYCBP2;NEXN |
| 1 | 0. | 3193271 | 0. | 2103065 | NT5E | NT5E |
| 1 | 0. | 3193271 | 0. | 2103065 | GTF2A2 | GTF2A2 |
| 1 | 0. | 3193271 | 0. | 2103065 | BMPR1B | BMPR1B |
| 3 | 0. | 3250564 | 0. | 2139161 | EDN1;ITGA7;CDH2 | EDN1;ITGA7;CDH2 |
| 1 | 0. | 3263675 | 0. | 2146149 | SCG5 | SCG5 |
| 1 | 0. | 3263675 | 0. | 2146149 | PPARG | PPARG |
| 1 | 0. | 3263675 | 0. | 2146149 | BRCA2 | BRCA2 |
| 4 | 0. | 3269786 | 0. | 2148526 | AMPD3;NME6;NT5C2;REXO2 | AMPD3;NME6;NT5C2;REXO2 |
| 1 | 0. | 3333351 | 0. | 2188346 | BARD1 | BARD1 |
| 1 | 0. | 3333351 | 0. | 2188346 | MDN1 | MDN1 |
| 1 | 0. | 3333351 | 0. | 2188346 | PRKAG2 | PRKAG2 |
| 1 | 0. | 3402307 | 0. | 223163 | ARFIP1 | ARFIP1 |
| 1 | 0. | 3402307 | 0. | 223163 | SYNE1 | SYNE1 |
| 2 | 0. | 3414008 | 0. | 2238168 | SIK1;HDAC3 | SIK1;HDAC3 |
| 1 | 0. | 347055 | 0. | 2273793 | PLA2G4A | PLA2G4A |
| 1 | 0. | 347055 | 0. | 2273793 | NF1 | NF1 |
| 1 | 0. | 347055 | 0. | 2273793 | FAS | FAS |
| 1 | 0. | 3538087 | 0. | 2315692 | DYNLL1 | DLC1 |
| 1 | 0. | 3538087 | 0. | 2315692 | SCNN1A | SCNN1A |
| 2 | 0. | 3600662 | 0. | 2355752 | AGT;NR1H3 | AGT;NR1H3 |
| 1 | 0. | 3604925 | 0. | 2357347 | GHR | GHR |
| 1 | 0. | 3604925 | 0. | 2357347 | IGF1 | IGF1 |
| 1 | 0. | 3604925 | 0. | 2357347 | IGF1 | IGF1 |
| 1 | 0. | 3671073 | 0. | 2398478 | SMAD3 | SMAD3 |
| 1 | 0. | 3801323 | 0. | 2480752 | PPARGC1A | PPARGC1A |
| 1 | 0. | 3865439 | 0. | 2520366 | COL8A1 | COL8A1 |
| 1 | 0. | 3865439 | 0. | 2520366 | IRAK3 | IRAK3 |

| | | | | | | |
|----|----|---------|----|---------|--------------------|---|
| 1 | 0. | 3928893 | 0. | 2560124 | PDE5A | PDE5A |
| 1 | 0. | 3928893 | 0. | 2560124 | RENH_HUMAN | ATP6AP2 |
| 2 | 0. | 3931399 | 0. | 2560465 | ERAP1;CHIT1 | ERAP1;CHIT1 |
| 5 | 0. | 3980335 | 0. | 2591682 | LIG4;BRCA2;SMC2 | LIG4;BRCA2;SMC2;SMCHD1;SMC4 |
| 1 | 0. | 3991691 | 0. | 2598094 | GLI1 | GLI1 |
| 1 | 0. | 4053839 | 0. | 2636552 | ERO1L | ERO1L |
| 4 | 0. | 4083333 | 0. | 2654732 | HMGB2;SOX6;HMGB1 | HMGB2;SOX6;HMGB1;HMGN2 |
| 4 | 0. | 41064 | 0. | 2669057 | CA2;TPD52;RIMS1 | CA2;TPD52;RIMS1;CA9 |
| 1 | 0. | 4115344 | 0. | 2673861 | GLMN | FAP |
| 7 | 0. | 4118225 | 0. | 2674724 | CTNNB1;SOX9;JAG1 | CTNNB1;SOX9;JAG1;DBP;SERPINE1;TIMELESS;CHST11 |
| 1 | 0. | 4176214 | 0. | 2710682 | SMAD3 | SMAD3 |
| 1 | 0. | 4176214 | 0. | 2710682 | ATG10 | ATG10 |
| 1 | 0. | 4176214 | 0. | 2710682 | ATXN1 | ATXN1 |
| 1 | 0. | 4176214 | 0. | 2710682 | CASP3 | CASP3 |
| 1 | 0. | 4236454 | 0. | 2748056 | EGR2 | EGR2 |
| 20 | 0. | 4269082 | 0. | 2768526 | STC1;EGFR;IL17RA | STC1;EGFR;IL17RA;TNFRSF14;COL4A3;MET;MADD;DOK |
| 1 | 0. | 4296071 | 0. | 2784979 | COL5A2 | COL5A2 |
| 1 | 0. | 4296071 | 0. | 2784979 | LEP | LEP |
| 1 | 0. | 4355071 | 0. | 2821457 | DNASE1 | DNASE1 |
| 1 | 0. | 4355071 | 0. | 2821457 | HTT | HTT |
| 1 | 0. | 4355071 | 0. | 2821457 | CXCL12 | CXCL12 |
| 1 | 0. | 4413462 | 0. | 2857136 | APOB | APOB |
| 1 | 0. | 4413462 | 0. | 2857136 | TIMELESS | TIMELESS |
| 1 | 0. | 4413462 | 0. | 2857136 | RIPK2_HUMAN | RIPK2 |
| 1 | 0. | 4471248 | 0. | 2892732 | NEB | NEB |
| 1 | 0. | 4471248 | 0. | 2892732 | BRCA2 | BRCA2 |
| 1 | 0. | 4528437 | 0. | 2928265 | MSH2 | MSH2 |
| 4 | 0. | 4540316 | 0. | 2934844 | ALDH1A3;ALDH3B1 | ALDH1A3;ALDH3B1;ADH1C;CHDH |
| 2 | 0. | 4635954 | 0. | 2995914 | SMAD3;TN13B_HUMAN | SMAD3;TNFSF13B |
| 1 | 0. | 4641047 | 0. | 2997706 | SCIN | SCIN |
| 1 | 0. | 4641047 | 0. | 2997706 | CELSR2 | CELSR2 |
| 2 | 0. | 4703762 | 0. | 3036695 | NFATC2;CD4 | NFATC2;CD4 |
| 1 | 0. | 4805633 | 0. | 309975 | NDRG1 | NDRG1 |
| 1 | 0. | 4805633 | 0. | 309975 | CD74 | CD74 |
| 1 | 0. | 4859364 | 0. | 3131671 | NRG1 | NRG1 |
| 1 | 0. | 4859364 | 0. | 3131671 | CHD7 | CHD7 |
| 1 | 0. | 4859364 | 0. | 3131671 | CDKN2A | CDKN2A |
| 1 | 0. | 4859364 | 0. | 3131671 | ENOSF1 | ENOSF1 |
| 1 | 0. | 4859364 | 0. | 3131671 | RAPGEF2 | RAPGEF2 |
| 4 | 0. | 4875217 | 0. | 3139538 | ST6GAL2;CCNB2;GDF5 | ST6GAL2;CCNB2;GDF5;SEPP1 |
| 1 | 0. | 491254 | 0. | 3161996 | STK36 | STK36 |
| 1 | 0. | 491254 | 0. | 3161996 | SMARCA4 | SMARCA4 |
| 1 | 0. | 491254 | 0. | 3161996 | PXK | PXK |
| 1 | 0. | 4965166 | 0. | 3193482 | FAS | FAS |
| 1 | 0. | 4965166 | 0. | 3193482 | PCSK5 | PCSK5 |
| 2 | 0. | 496974 | 0. | 3194833 | CLU;ALS2 | CLU;ALS2 |
| 2 | 0. | 5002382 | 0. | 3215017 | ASPH;ASPHD1 | ASPH;ASPHD1 |
| 1 | 0. | 5017247 | 0. | 3223769 | CAV1 | CAV1 |
| 1 | 0. | 506879 | 0. | 3254863 | COL1A1 | COL1A1 |
| 1 | 0. | 506879 | 0. | 3254863 | NOD2 | NOD2 |
| 1 | 0. | 51198 | 0. | 328476 | WIPF1 | WIPF1 |
| 1 | 0. | 51198 | 0. | 328476 | MAP3K1 | MAP3K1 |

| | | | | |
|---|-----------|-----------|------------------|------------------------------|
| 1 | 0.51198 | 0.328476 | HMGCR | HMGCR |
| 1 | 0.5170282 | 0.331509 | NHEJ1 | NHEJ1 |
| 2 | 0.5227009 | 0.3350214 | CTNNB1;ZBTB17 | CTNNB1;ZBTB17 |
| 1 | 0.5269686 | 0.3376311 | ATG10 | ATG10 |
| 1 | 0.5269686 | 0.3376311 | SULT1A2 | SULT1A2 |
| 1 | 0.5367045 | 0.3436558 | CHST1 | CHST1 |
| 1 | 0.5367045 | 0.3436558 | SOD1 | SOD1 |
| 1 | 0.541497 | 0.3465527 | HPRT1 | HPRT1 |
| 2 | 0.5444734 | 0.3483713 | CRAT;ACADVL | CRAT;ACADVL |
| 1 | 0.5509339 | 0.352156 | RYR1 | RYR1 |
| 1 | 0.5509339 | 0.352156 | PCSK5 | PCSK5 |
| 1 | 0.5555793 | 0.3549496 | TNFSF15 | TNFSF15 |
| 1 | 0.5601767 | 0.3577099 | GAPVD1 | GAPVD1 |
| 3 | 0.570882 | 0.3643658 | PDGFRA;PDGFA;SLI | PDGFRA;PDGFA;ARSB |
| 1 | 0.5780955 | 0.3686965 | EGFR | EGFR |
| 2 | 0.6055379 | 0.3859128 | TYMS;PRPSAP1 | TYMS;PRPSAP1 |
| 1 | 0.6236979 | 0.3970454 | PEG10 | PEG10 |
| 1 | 0.6236979 | 0.3970454 | PAX6 | PAX6 |
| 1 | 0.6314434 | 0.4017287 | PIP5K1A | PIP5K1A |
| 1 | 0.6390296 | 0.4064549 | KRT7 | KRT7 |
| 1 | 0.6464596 | 0.4106246 | SQSTM1 | SQSTM1 |
| 1 | 0.6464596 | 0.4106246 | MSH2 | MSH2 |
| 1 | 0.6501171 | 0.4126434 | NME6 | NME6 |
| 1 | 0.6501171 | 0.4126434 | SOD1 | SOD1 |
| 1 | 0.6573189 | 0.4170609 | SORBS3 | SORBS3 |
| 1 | 0.6608641 | 0.4191558 | HTATIP2 | HTATIP2 |
| 1 | 0.6608641 | 0.4191558 | LCK | LCK |
| 1 | 0.6643726 | 0.4212259 | SMAD3 | SMAD3 |
| 2 | 0.6674682 | 0.4230847 | APOM;B4GALT4 | APOM;B4GALT4 |
| 1 | 0.6678448 | 0.4232196 | DGKD | DGKD |
| 1 | 0.6712811 | 0.4252407 | ATG10 | ATG10 |
| 1 | 0.6712811 | 0.4252407 | SLC1A3 | SLC1A3 |
| 2 | 0.690852 | 0.4373703 | MPHOSPH6;DLGAP5 | MPP6;DLGAP5 |
| 1 | 0.6975225 | 0.4414851 | CHST11 | CHST11 |
| 1 | 0.7006519 | 0.4433571 | TRIB2 | TRIB2 |
| 2 | 0.7085676 | 0.4482562 | GCK;DGKD | GK;DGKD |
| 1 | 0.7098471 | 0.4489557 | MYO6 | MYO6 |
| 1 | 0.712849 | 0.4507439 | PPARG | PPARG |
| 1 | 0.7187599 | 0.4542591 | BMPR1B | BMPR1B |
| 3 | 0.721854 | 0.4561029 | HEXB;SEPP1;HEXA | HEXB;SEPP1;HEXA |
| 5 | 0.7313405 | 0.461871 | CLN5;FBXO2;FRAP | NCL;FBXO2;MTOR;PRSS16;FBXO27 |
| 1 | 0.7465393 | 0.4711241 | TSHR | TSHR |
| 1 | 0.751757 | 0.474301 | MT4 | MT4 |
| 1 | 0.7568672 | 0.4774086 | MLTK | ZAK |
| 3 | 0.7654534 | 0.4827066 | CLN5;CEP120;HTT | NCL;CEP120;HTT |
| 1 | 0.7691875 | 0.4848838 | AMPD2 | AMPD2 |
| 3 | 0.7699363 | 0.4851782 | NADSYN1;GLUL;NIT | NADSYN1;GLUL;NIT2 |
| 1 | 0.7808836 | 0.4919567 | CLU | CLU |
| 1 | 0.8025282 | 0.5053463 | GALM | GALM |
| 1 | 0.8085948 | 0.5089182 | DRD4 | DRD4 |
| 1 | 0.8105753 | 0.5100404 | AQP3 | AQP3 |
| 1 | 0.8201747 | 0.515955 | SERINC5 | SERINC5 |

2 0.8229948 0.517603 SMAD1;ZNF148 SMAD1;SLC12A8
3 0.8488246 0.5337181 SLC39A8;SLC39A1(SLC39A8;SLC39A10;SLC39A5
2 0.8514543 0.5351111 NR5A1;LAMA1 SF1;LAMA1
2 0.8538231 0.5364693 TMEM91;TUSC5 TMEM91;TUSC5
2 0.8705166 0.546692 MADD;COPS5 MADD;COPS5
1 0.8763417 0.5502165 BRCA2 BRCA2
2 0.8766886 0.5503005 SULT1A1;ABP1 SULT1A1;DAO
2 0.8835453 0.5543351 SAR1B;GBF1 SAR1B;GBF1
3 0.8958124 0.5617586 PDXDC1;CSAD;MCFI PDXDC1;CSAD;MCFD2
2 0.8987524 0.5634654 ZIC1;MAOA ZIC1;MAOA
1 0.9122732 0.5718034 KRT8 KRT8
2 0.9156879 0.5737662 PLK2;CEP250 PLK2;CEP250
1 0.915849 0.5737662 DLX6 DLX6
1 0.9167199 0.5740333 HTT HTT
1 0.9272549 0.5802082 EDN1 EDN1
4 0.9310947 0.5824697 GNAS;RANBP3L;BB(GNAS;RANBP3L;BBS4;RANBP1
1 0.9330646 0.5835607 SOD1 SOD1
3 0.9403994 0.5880057 DCT;SMO;LEF1 DCT;SMO;LEF1
1 0.9444964 0.5904246 ORM1 ORM1
1 0.9473101 0.5920402 PLCG2 PLCG2
1 0.9510114 0.5942096 LRRK2 LRRK2
1 0.9576524 0.5982143 ETS1 ETS1
1 0.9633933 0.601655 SIK1 SIK1
23 0.9642146 0.6020223 RIMS1;ADCY3;HMO1 RIMS1;ADCY3;HMOX1;RSP01;ABCA4;TUB;RP9;RPGR;AR
1 0.9645185 0.6020665 LDHA LDHA
1 0.9659651 0.6028238 SOD1 SOD1
2 0.9679997 0.6038018 NT5E;ADRA1D NT5E;ADRA1A
1 0.9699606 0.6047894 STK38L STK38L
1 0.9729296 0.6064375 PCBP2 PCBP2
4 0.9747945 0.6074534 PIP5K1A;BCKDK;FI PIP5K1A;BCKDK;MTOR;UGP2
1 0.9768422 0.6085826 SLC22A12 SLC22A12
1 0.9773192 0.6087329 MAPT MAPT
1 0.9799821 0.6102444 SOD1 SOD1
1 0.9850428 0.6131001 EIF2B4 EIF2B4
2 0.9884941 0.6149519 TRERF1;SMAD1 TRERF1;SMAD1
5 0.99165 0.6155129 BIRC6;UBE2V1;UBI BIRC6;UBE2V1;UBE2B;UBE2Q2;UBE2F
1 0.99509 0.6155129 ACADM ACADM
3 0.996082 0.6155129 KIF3A;DTNBP1;HP(KIF3A;DTNBP1;HPS3
1 0.9970828 0.6155129 LONP1 PIM1
2 0.9970842 0.6155129 ZDHHC15;FLNA ZDHHC15;FLNA
2 0.9984805 0.6155129 SCN10A;ARRB2 SCN10A;ARRB2
1 0.9989378 0.6155129 SPRY4 SPRY4
1 0.9990429 0.6155129 AR AR
2 0.9990932 0.6155129 CHD7;NF1 CHD7;NF1
2 0.999598 0.6155129 NOTCH3;NOTCH4;N NOTCH3;NOTCH3;NOTCH4
2 0.9996644 0.6155129 INPP5D;ENPP1 INPP5D;ENPP1
111 0.999751 0.6155129 LPP;APM2;LOXL3;I LPP;C10orf116;LOXL3;KRTAP1-5;ARFIP1;GRIPAP1;L
19 0.9998918 0.6155129 AK5;NDUFA10;TYM(AK5;NDUFA10;TYMS;TK1;PRPSAP1;DPYSL2;POLA1;EXO
1 0.9999003 0.6155129 ZWINT ZWINT
6 0.9999809 0.6155129 FHOD3;FMNL3;FMN(FHOD3;FHOD3;FMN2;DAAM2;DAAM1;FMNL1
11 0.9999853 0.6155129 EGLN3;LEPREL1;P EGLN3;LEPREL1;P4HA1;CLK1;P4HTM;P4HA2;PLOD1;EG
8 0.9999891 0.6155129 SSBP2;PPIE;BTG1 SSBP2;PPIE;BTG1;C11orf9;APBB2;L3MBTL3;APBB1;N

| | | | | |
|----|-----------|-----------|--|--|
| 1 | 0.999994 | 0.6155129 | ADSSL1 | ADSSL1 |
| 1 | 0.9999944 | 0.6155129 | CES2 | CES2 |
| 15 | 0.9999993 | 0.6155129 | ITGB4;NRG1;SLC8A1;GJA5;JAG1;PPFIBP2;PIK3C2B;H | ITGB4;NRG1;SLC8A1;GJA5;JAG1;PPFIBP2;PIK3C2B;H |
| 2 | 1 | 0.6155129 | POLR3A;PTGER3 | POLR3A;PTGER3 |
| 3 | 1 | 0.6155129 | PLCG2;PPP2CB;SOX1;PLCG2;PPP2CB;SORT1 | PLCG2;PPP2CB;SOX1;PLCG2;PPP2CB;SORT1 |
| 3 | 1 | 0.6155129 | NTRK2;BDNF;LEP | NTRK2;BDNF;LEP |
| 2 | 1 | 0.6155129 | L2HGDH;HEXB | L2HGDH;HEXB |
| 6 | 1 | 0.6155129 | GTDC1;SPTLC3;COX6B;GTDC1;SPTLC3;PPAT;GART;GPT2;ALDH1L1 | GTDC1;SPTLC3;COX6B;GTDC1;SPTLC3;PPAT;GART;GPT2;ALDH1L1 |
| 1 | 1 | 0.6155129 | EIF4G2 | NAT1 |
| 1 | 1 | 0.6155129 | HEXB | HEXB |
| 4 | 1 | 0.6155129 | MOXD1;GNAO1;MET;MOXD1;GNAO1;MAP2;SUPT16H | MOXD1;GNAO1;MET;MOXD1;GNAO1;MAP2;SUPT16H |
| 2 | 1 | 0.6155129 | WNK4;WNK1 | WNK4;WNK1 |
| 2 | 1 | 0.6155129 | EIF2B4;POLR2D | EIF2B4;POLR2D |
| 1 | 1 | 0.6155129 | FAS | FAS |

CD97;CXCL13;FGF13;SEMA5A;MLLT4;SF1;STAB1;SEMA4F;FAT1;WISP3;SEMA3B;GPR56;SIRPG;PGF;WNT9F
PLOD1;DPP4;ITPR2;NF1;EGLN1;KCNMA1;SOD3;ATP1B1;CAV1;PIM1
SGCA;POP1;SPEG;MEF2D;SMTN;SGCD;SGCE;POU6F1;TAGLN2;HBEGF;ITGA7;IGF1;TAGLN;CSRP2;MBNL1;CFI
;C1S;PPARG;POP1;DHX58;IL1RAP;TLR1;TLR3;TMEM173;CFI;TIRAP;IFIH1;IL1R1;CLU;SARM1;F12
NFATC3;NFYC;HTATIP2;TCEB1;RNF4;HMGB2;ELP3;HMGB1;UBN1;SREBF1;SP4;HOXC6;TCF7L2;CHD3;SP7;
RPGR;COL2A1;BBS5;COL1A1;PDE6B;NCL;EFEMP1;RCVRN;PRPH;SEMA4A;PITPNM3;COL18A1;CC2D2A;DTNBI
G01;LRP5;CELSR2;SFRP1;TLE6;CPZ;FZD3;FZD3;TLE3;HBP1;BRD7;CCDC88C;TCF7;RSP03
;LRRK2;CTTNBP2;MET;MAP3K13;LCK;STK4;CAMK2A;TRPM7;PDGFRB
ITC1;LAMB2;DARS;LPXN;FANCC;TAPBP;CD74;PTK2B;SH3BGR;REPS2;DLG4;DLG4;IL1RAP;MPP6;MDM4;MPP7
IPN;MYRIP;MYO6;SCG5;RPGR;AP3M2;XPO1;CD74;PCNA;NPM1;VPS41;AP1G2;VTI1A;AP1G1;PGAP1;IPO5;S
DYNC1I2;DNHD1;CENPE;KIF3A;MPP1;TUBD1;KIF21A;KIF11;KIF18B;KIF17;KIF13A;KIFC1
;ESR2;APBB1;TP73;CDA;ENO1;BCL6;TP53TG5;ENPP1
CTTNBP2;PCDHB9;CACNA1B;UNC13B;DLG4;GRM7;KCNQ3;HRH1;NET1;NET1;SYN2;AMPH;KCNQ5;SCN1B;HOMI
GA10;ADAMTS1;ITGB3;ITGAE;ITGA9;DOCK1;ITGA7;ITGB5
;2D;ITPR2;CACNA1A;CACNA1D;TPCN1;CACNA2D3;CACNA1B;CACNA1G;ATP2B4;TRPC1;CAMK2A;TRPV1;TRPM
;1;BCOR;TBX1;EPOR;POU6F1;SEMA3C;PCSK5;FBN1;CASP3;ACADM;HOPX;ADAP2;TGFB2
;FIP2;RALGPS2;RND3;RHOBTB2;RAB24;DNAJC27;RAD1;RERG;TIAM1;RAB9B;RAP2C;RAC1;GDI1;RHOBTB1;I
;UBE3;PRNP;PEX14;FAS;CAV1;CCDC88C;PIM1
;1;CTTNBP2;HSD11B1;CRISPLD2;GLI1;SIM2;MGP;TGFB2
;GPI;PKM;OGDH;ENO1;ENO3
;D1;HERC2P3;SOCS7;PCNP;RNF41;FBXO10;MIB2;WWP1;FBXO25;WDSUB1
;AGPAT1;MDGA1;NCL;MYH10;BRCA2;GPR56;CDK5RAP2;SEPP1;EPOR;HTT;POU6F1;NOTCH4;ABR;TGFB2
;3;HGF;CAMK2A;RIPK2
;3;LST1;DLC1;ITGA7;ATP10A;CDC42SE1
;PP1;TXNIP;PRNP;OXR1;ERCC3;CLU;PXDN;GPX2;PTGS1;MICB
;CPOX;LCK;BDNF;ABCA3;PDE3A;SLC22A12;SEMA3C;SLC1A3
;T5B
;5;KIN;SFPQ;PABPC1;SLU7;HNRPLL;THOC1;KIAA1429;HRH1;SNRNP35;CPSF4;NONO;TTF2;AQR;EIF4A3;AI
;T2;KCNQ3;KCNQ5;KCNIP1;KCTD9;KCNMA1;SLC12A8;ATP1B1;KCNJ15;SLC9A7;KCNS3;KCNJ5;KCNJ6
;XCL16;FPR1;CCL28;CX3CL1;IL16;PLAU;LSP1;CCBP2;CCBP2;CMTM3;C5;RAC2;CXCL12
;ARD;NLRP12;BCL2L13;LCK;DLC1;HIP1
;X3;TLE1;PCM1;DMAP1;THRB;CENPF;BCL3;MEN1;PTPRU;EED;PRDM6;TIMELESS;NKRF;SNW1;WWP1;BCLAF1
;HSPA4L;PPIG;PPIL4;NKTR;DNAJB6;DNAJC18;CCT8;TTC9;PDIA5;PPIL6;DNAJC10
;1;KAZALD1;MGP;FAM83H;EXT2;IBSP;DSP;BMP1;ENPP1;CDH11;SORT1
;133;EMR2;LPHN2;GPR64;PKD1L2;SLC26A6;CELSR1;SORT1
;11A1;COL2A1;COL1A1;COL5A2
;F;IGF1;TGFB2
;YSF;UTRN;MYOT;SLC6A8;SGCA;ASPH;FLI1;FXD1;SSPN;CHRNE;P2RX6
;;CRHR1;STAT5B;PSG1;PSG1;PSG1;PSG1;BYSL;PSG7;PSG7;PSG2
;1;TLE1;THRB;ELN;SEMA6A;COL9A1;APLP1;BHLHE41;FLI1;PTCH1;TLE3;ETV4;ETV5;COMP;HTT;COL18A1
;BCL3;BNIP3L;FAIM;STAT5B;PTEN;PIK3R1;HGF;PC;PPP2CB;BCL6;CHST11;CASP3;PIM1;ASNS;SORT1
;SEMA3B;SEMA6A;TNR;BDNF;NRXN3;EPHB2;NRP2
;NCOA3;FHL2;AR;PMEPA1
;16;PDIA5;TXNDC2;DNAJC10;GLRX;GSR
;PCDH9;PCDHB9;CDH13;PCDH7;SLC26A6;CLSTN3;CDH2;CELSR1;CDH11
;9L;MRPS25;MRPL52;POLB;MRPS36;GFM2;PET112;ABCF1;PSTK;EIF3E;SEPSECS;MRPL2;MRPL2;COPS5;EII
;PX
;4;MYH10;MSH2;AR;MAFF;MBNL1;BCL2L11
;1;CAV1;LIPC
;P53BP1;ETS2;MAP2K3;BCKDHA;SP100;DYRK1B;MMS19;TP63;NCOA3;SEC14L2;TMEM91;TP73;AHR;NIF3L1
;CSM5;CRAT;ACADVL;ACSF2;AASDH;ACSL5;STAT5B;CRYL1;HADHB;GHR;LIPC;ACADM;CHKB
;BCA1;SREBF1;INSIG2;MBTPS2;APOL2;FLJ35024;LIPC;LEP

; ADAM22; RCAN2; CHD7; NPAS2; MOG; ADAM23; NHEJ1; TLX1; LIG4; ZBTB16; PTEN; WWP1; JARID2; CELSR1; PAX6
; RGS12; RGS16
POL1; OSBPL1A; APOM; COL4A3BP; LRP10; PLTP; SCP2; OSBPL10; APOL2; FLJ35024
; ALT1; AAMP; NCL; PGF; ARHGAP24; PTEN; KLF5; EGFL7; ANPEP; MMP19
MADD; SDHC; NDUFV3; ERO1LB; FRRS1; ETFDH; NDUFB2; GLRX; FAAH
; DOK1; GLUD1; GFRA2; CD4; EPHA4; ROR1; ROR2; RGS2; DOK5; EPHB6; EPHB2; SEMA3C
; IT3; MGP; MTOR; TMEM91; TGFBR2
TGFBR2
; HGF; GHR; C5

; DLX6; DKK1; MBNL1
; R1; AKT2; GRB10
; NUP98; NUP85; PEX14; TPR; TIMM9
; K; MARK1; STK3; MAP4K1; HMOX1; MAP4K2; ZAK; MAPK13; MKNK1; MAP4K4; MARK2; WNK1; SRPK1; STK4; WNK3; PRR1
; CADM; BCL2L11
; L1A; ACAT1; ABCA1; SREBF1; CYP46A1; SULT1A1; INSIG2; MBTPS2; OSBPL10; SULT1A2; FLJ35024
; A2; PPARG; SOD1; AGT; LRP4; PTGS1
IDFI
DLC1; TIE1
; I2; KLF6; BCL6
IP1; UNC13B; AGT; SCNN1A

; KRT4; SVIL; AVIL; KRT86; ANK1; SGCD; ABLIM3; KRT8
; HERC3; C12orf51; HECW2; RPN2; PRKDC; TTLL3; PLOD1; TRIP12; QPCT; ERO1L; BAG6; HUWE1; HERC1; HECTD3

; DKRB2; GNAZ; FZD6; OXTR; NPFFR1; ABCA1; GNAL; FPR1; SMO; GNAS; GNAS; CRHR1; GRM7; FZD3; FZD3; APLP2; GRI
; C1D1; TBC1D12; TBC1D19; TBC1D16
DNAJB6; HSPB7; CREB3L3; HERPUD1
; IH1; IFI27; BANF1; PLSCR1; MX1; CXCL12
; OD; ATP2C1; ATP13A3; PRKAG2; ATP1B1; ATP10A

; PD; PGM2; PGM2L1; PDK4; LEP
; I1; PTCH1

; BF4; CAMK2A

; A3; GRSF1; HOXB8; HTT; PCSK5

; KAG2; FAS; PTGS1; FAAH
; QGAP3; RAPGEF5; SYNGAP1; RAPGEF2; HGF; RAPGEF4; DAB2IP; KNDC1; RASGEF1B; GAPVD1; SIPA1L3
;
; I1
; ; AGT; NET1; IGFBP2; CD320; IGFBP3; NOV
;
; CC3; POLR2B; POLR2D

UUP98;G3BP2;NUP85;TPR
F2

UDAT1;RPP25;TRNT1
;KDELR3;VPS41;CPNE3;AP1G2;VTI1A;VPS33A;ERGIC3;STX17;SAR1A;NCALD;MCFD2;CLTCL1;AP4S1;TRAI
I5

UAMB1;PDGFRB
UYD1;SLC12A2
PIR;PCM1;MAF;HSF2BP;NFATC1;PARP1;NR3C1;TMF1;KLF5;TRIM24;SNAPC2;AHR;COPS5;TAF1A;KDM5A;SI
SLC37A4;SLC37A1;SLC2A1;SLC35D1

;

UBE1;PLAU;ITGB3;PROS1;F13A1
.1
UOC2;CADPS2;ARFGEF1;STXBP5

HLA-DRB3;HLA-DRB3;HLA-DRB3
U40A1

U1;CSTF3;HNRNPD;POLR2B;POLR2D;DHX38

UOPX
. ;SOD1;AGT;DDIT3;RARB;STK4;KCNMA1;BCL6;IGFBP3;RIPK2

U6A13;SLC6A9;SLC6A1;NAT1

U2G2A;PLCD4;PLCD1;PLCG2;FAP;LIPC
PSMD11;CDC16
UOL2

EIF4E3;NCK1;GCN1L1;EIF4E
UB;EPM2A

ST6GALNAC2;COG3;ST8SIA1;ST3GAL5;ST6GALNAC5

27;MDP1

5;TGM5;PC;ATP2C1;DSP

TH1R;EDNRA

L1;TGFBR2

GS2;RGS12;RGS16;IGFBP3

;NFKB2

3

.1;CDC16

UCP2;ATP6VOD1

30;ZWINT;IGF1

LC6A9;NAT1

IDAC8;CHD1;CHD6

1

11

3;CASP1;NOD2;MST4;TRAF1;GDF5;CASP8;IFIH1;APAF1;TRAF2;CFLAR;SARM1;CARD8;HIP1

10CLRE1C

16

7AL1;EPHX2;DCT;ACSS2;AS3MT;PHOSPHO2;ARSJ;EYA2;TKT;SLC27A3;EYA4;CHIT1;AGPAT5;ACSS1;PFKFB-
LAMA1;ITGB3;NEXN

14;DLC1

SERINC5

GUCY1B3;CYB5R3;CXCL12

AR;CSRP2

7Z
P23

1;PDE1B;HTT;NOVA1
P2

7;LCK;G3BP2;IGF1;SDCBP

SMAD1;DOK5
;TLN1;LSP1;RAC1;DNALI1;ELM01;IGF1;LYVE1

MA9;SLC4A3
SC10;DDX17;DROSHA;NUFIP1;HNRNPD;ZFC3H1;ADAT1;ATXN1;TRNT1

NB1;NCK1;TTF2;CDH2;PSG2

FIP2;COL13A1;PTPRU;JAM2

T2;DNAJB6;ARID5B

SLC2A1

PITX1;FGF1;KRT18;IER3;HOXB5;FAT1;SIX4;SFRP1;WHSC1;EZH1;RAC1;LRP4;CLTCL1;LST1;DLC1;MCAM

;PRKRA;SGK1;MAPK8;SQSTM1;PTK2B;MAP4K2;ZAK;NPM1;MAPK13;ERRFI1;MKNK1;MAP4K4;AVIL;STK39;AI

†;TGFBR2

EPOR;HTT;NOTCH4;MDF1

ETV5;RGMB;KDM5A
EP;ZNF160

BP; APLP1; ATM; ZAK; POLB; PTGER3; PLEKHG4; CLU; APP; ATXN1; HIP1; NAT1

.T1;ENPP1

BCL6

CL1;PSG1;TFF3;TIAL1;PSG7;MX1

IGF1

'2C1;SLC30A8;SLC9A7

SA; TNS4; ERCC3; BCL6; CAV1

1; SEMA6A; BSG; PRLR; IL12RB1; LAMA1; LCK; IL1R1; CLEC2D; PIP4K2B; OSMR; CDA; TRPV1

RB2;BBS5;PDE6B;GRM7;RCVRN;PRPH;SEMA4A;PITPNM3;CC2D2A;DTNBP1;BBS4;AIM1;SCNN1A;OR11A1;RSI

.PL;DONSON;CALU;STAG2;TBL2;SORBS2;CMAHP;AUTS2;PART1;LRRFIP2;BAIAP2L1;MUC4;PIK3C2B;TM4SF;
SC10;OAS1;POLE;TK2;TK2;METTL4;OAS3;DDX11;AK2;METTL3;SLC23A2;SLC23A2;REXO2

LN1;LEPRE1;PLOD3;OGFOD2
RK

IS1BP3;SNX16;PPFIA4;ZCCHC2;SNX21;SNX25;SH3PXD2A;PXK

B;TSHR;AGT;PDGFA;MME;EFNA5;GDF5;ESR2;DAP3;DLGAP5;AR;AR;ADRA1A;ADRA1A;GRB10;SH3KBP1;PCSK

HKB;FKTN

TCEA3;TBX1;TCEA2;IKZF3;SNW1;SRCAP;FHL2;PKNOX2;ELF2;TCF4;CHD1;SMARCA2;GABPB1;BRD7;TCF7;T
P1;RGS16;AIM1;PAX6

7;TRAF1;KIFAP3;OXA1L;KCNQ5;CD40;FAH;TRAF2;FANCA;FAS;TAP2
TX17;SAR1A;KLHL2;COG3;CLTCL1;AP4S1;TOM1L2;STXBP2;VPS45;TAP2

ER1;NOVA1;KCNIP1;KCNMA1;SDCBP;SLC6A1;NAT1

7;CAV1

RABL2A;ARL6;ARL6;RIN2;ABR;DOCK1;RAB15;RAB36;BRAF;RAB8B;RHEB;RAP1B;RAC2

DARB1;RBM39;SRPK2;PRPF18

;ATXN1;PBXIP1

;SCP2;EPHB2;LY6H;BRAF;IGF1;CSRP2;PAX6;TGFB2

F4H;CARS;FDXACB1;TPR;SLA;TRNAU1AP;MRPS5

;TTF2;FHL2;ILF2;NOTCH4;TCF4

6;PTS

KAG2;ADRA1A;SRPK2;STK38L

;WWP2;KIAA0317;TGM5;FBX02;HECTD2;PLOD3;GABBR1;AKT2;ZFAND4;UBA7;UBL4A;MANBA;PADI4;WWP1;N

PR1;PTGER3;RAPGEF4;CCBP2;CCBP2;AR;ADRA1A;ADRA1A;GPR135;C5;OR11A1;PTGER2;CXCL12;LPAR4;ED

PPC10;STXBP2;BET1;VPS45

KIL;SUPT16H;MAFF;NMI;BATF3;MAX

4;TPI1;WBSCR22;C1QTNF3;PIGN;ALDOA;MMP28;SAT1;GLB1L2;ACAT1;GBA;ACAD10;LPCAT1;GALC;ECHDC2

;SLC40A1;LYVE1

HR;PDIA5;AR;AHSA2;UCL1;MAFF;C5

P03

1;SMA5;TARSL2;BRWD1;SH3TC1;PLEKHA4;MT4;GNL2;RIF1;NR4A3;LAMB2;NPFFR1;MRPS28;ORAOV1;EBF3;

DIS1;HR;TARDBP;CHAF1B;ZFX;ZMIZ1;ZNF658B;HOXB6;NFXL1;ETV1;MEIS2;ZNF83;MED24;MED24;LIMD1;IDBP;CHAF1B;ZMIZ1;ZNF658B;HDAC4;ETV1;ZNF83;MED24;MED24;ETS1;BRWD1;TRERF1;RERE;CBX7;AKNA;C...;INPP5F;TKT;ROS1;RPS6KA6;BTRC;LYN;ARHGAP20;FGF18;TRRAP;GRIA1;HDGF;GPER;BAIAP2L1;PRKAA2...A-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C...OR1;SSX2IP;ISLR;MUC4;COL22A1;CD97;CADM3;CPXM2;ITGBL1;DSG3;ITGA2;SEMA5A;LGALS4;MLLT4;PDZ1...GRK4;MAPKAPK3;MAP2K5;PRKRA;STK36;MLKL;SGK1;EPHA2;BUB1;WEE1;NEK3;ADRBK2;PRKX;FASTK;BMPR...SORD;CYP2R1;HTATIP2;CYP26A1;PLOD1;PGD;PGD;CPS1;PTGR2;PYROXD1;SUMF1;CBR4;RRM2;TBXAS1;SM...2;MEIS1;PLXNA2;TMEFF1;HDAC4;HOXB6;ENC1;SHROOM2;SMAP1;LIMD1;TRERF1;SFRP5;HOXC10;SEMA4B;I...A-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C...A-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B...A-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C...;NALCN;ATP6V0E2;KCNH1;ATP5A1;SLC12A7;ANO8;GRIA3;CLIC6;MCOLN3;CLCN4;CACNA2D3;SLC22A23;SI...2B;MPP7;DDIT3;MSH2;PARP1;CUL4A;RAD51B;SMC3;XPC;C11orf30;MCM2;TIMELESS;TDG;NONO;NEIL3;MD...APG;CLASP2;MAPRE3;FANCD2;NDC80;SGSM3;ZAK;MAPRE2;PCNP;NUSAP1;MAPK13;CDK1;CDCA5;SPC25;CDC...3TB16;WWP2;RNF144B;KIAA0317;CAND2;CCL28;UFSP2;RNF41;HECTD2;GABBR1;TRIM5;LRSAM1;FBXO10;UI...EZH1;EZH1;PHF1;KDM5C;KDM5A;CHD5;SRCAP;PADI4;EZH2;PHF2;EPC1;HDAC8;PRDM7;ING3;RBL1;RNF40...M7;FHL1;SQSTM1;DPYSL2;HUWE1;NPNT;MDGA1;UBE2V1;COL13A1;SEMA3A;CAMK1;SEMA6A;TUBD1;SPATA2...IA4F;LRRN1;NR2F1;INSC;DPYSL2;AGPAT1;MDGA1;SEMA3A;DPYSL4;GFRA2;CAMK1;SEMA6A;APLP1;SCRG1;C...ARD;ADAMTS16;ADAMTS6;POP1;CASP1;LTA4H;CTSL1;ADAM33;PCSK7;KLK4;ADAMTS1;DNPEP;TLL2;MMP7;I...TIMELESS;SMC4;CDK2;KIFC1;EVI5;PDS5B;SCP2;NEK1;LMLN;PPP1CB;CDC6;CDC16;ZWILCH

ZBTB7C;RBL1;RBL2;CDK2AP1

ANT7;B3GALT;NEU3;HEXA;NPL;H6PD;MAN2A2;MANBA;AR;PGM2;B4GALT6;PGM2L1;PHKA2;ST8SIA1;GALNT...

PTH1R;COL18A1;JARID2;E2F7;PDS5B;ADRA1A;DLC1;DLC1;BCL6;CDC6

ISP1;FAH;REV1;DCLRE1C;BCCIP;RAD17;FANCA;SUPT16H;RFC5;RAD51C

6;APLP1;ZBTB16;RNF144B;KIAA1967;SHF;TP63;TMEM173;MDM4;INPP5D;FASTKD1;TNS4;TP73;PDE1B;AI...

RBL1;HOPX

COG1;LRSAM1;TNPO3;RAB9B;ZFYVE20;RAB3IP;MAMDC4;GDI1;KIF17;NUP85;EXOC2;KIF13A;MCFD2;PEX1...

CRTC1;IGF1;ATXN1;ARNTL

N;CDC6;AIM1;ZWILCH

IF1;PDGFRB;RAC2

2;SCNN1A;NAT1

IPK2;VPS45;PXK

1;SULT1A1;CPNE3;PTEN;INSIG2;LRP10;PNPLA7;LRP4;HADHB;CLU;PLTP;PDE3A;MBTPS2;HACL1;APOL2;S...

QP3;ABCA1;STAU2;ERO1L;SCG5;LCN6;MADD;MADD;MADD;SDHC;HERC1;SLC25A42;ORC2;SLC25A22;CRAT;S...D3;MCM2;STIL;EIF5A;DLGAP5;MKI67;AR;AR;EVI5;TCF4;MDK;TAL1;UCHL1;PDXK;CSR2;TNFSF9;CDC16

1;PRKD3;SHANK2;ROCK2;NOD2;NFATC1;PLCD4;AKAP13;PAG1;PRKCD;CDC42BPG;PLCD1;NET1;DNMBP;DGKI

5;EFNA1;TNFSF9

IAL1

VEDD4;ADPRH;UBA6;PHKA2;HERPUD1;RIMKLB;RNF19A;UBE3C;TTL;ABL2

DNRA

;DPH5;ACSM5;ARSK;MMP16;PNPLA2;ALDOC;HMGCS1;GUSB;MGEA5;MMP24;FUCA1;HEXB;GSTM3;ELP3;TMEM6

TMEM50B;C9orf114;MAPKAP1;NRM;OFD1;FSD1L;RNF6;DSCR3;PPP1R7;FAM53B;COL13A1;SOCS7;MYH10;MI

HOXC10;CHD7;RUNX2;RERE;PITX1;CBX7;AKNA;CDKN2A;ZBTB46;ZNF596;ZNF792;ITGB3BP;ZNF33B;RORA;CDKN2A;NFYC;ZBTB46;ZNF596;TCEB1;ZNF792;ITGB3BP;ZNF33B;RORA;ZNF554;RNF4;ZFPM2;NR4A3;ZNF6;PPP2R2C;ANGPTL7;TLR5;HLA-DRB3;NAMPT;PLXNA2;ODZ2;CXCL14;GNAZ;PDE1C;PPP2R2A;SRGAP3;SRGAPC;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;VCAM1;APOBEC3G;MAGI3;MDM2;BTRC;LYN;CD81;LMBD2;ITGB3BP;COL4A3;PTPRF;COL12A1;LAMB2;LAMB2;MSLN;STAB1;LPXN;NINJ1;COL11A1;ADAM23;RND3;P1B;PTK2B;MAP4K2;MELK;CAMK1;RIOK2;PRKD3;DYRK1B;SPEG;IRAK2;ROCK2;EPA4;MST4;MAPK13;CDK1;MOX;ACADSB;L2HGDH;GAPDH;IDH3G;EGLN1;ALDH1A3;HSD11B1;CYP51A1;BCKDHA;SMO;DPYD;FMO4;RFESD;KRERE;PITX1;NDRG2;ROBO2;SEMA5A;OLFM1;NTRK1;PLXND1;HTATIP2;ODF2;ODF2;FZD6;NDRG4;DYNC2H1;RC;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-H;HLA-H;HFE;HLA-F;HLA-G;MR1;HLA-B;HLA-B;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;THC;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;MICA;HLA-H;HLA-H;HFE;HLA-F;PSMB8;HLA-G;MR1;CD1D;MLC6A8;SLC38A9;SLC13A5;CACNA1B;CACNA1G;SCN4B;FXYP1;SLC12A2;KCNT2;SLC38A1;KCNQ3;TRPC1;SLC1;USP1;ERCC3;FAH;REV1;DCLRE1C;BCCIP;OGG1;RAD17;MSH3;FANCA;SUPT16H;BCL6;CASP3;RAD51C;A8;SMC2;MPP7;CCND3;ZWINT;DDIT3;TXNIP;SMC3;E2F6;KIF11;STRADB;MCM2;MCM2;TIMELESS;PLK3;RGSBA7;KLHL3;DET1;FBXO32;MIB2;WWP1;NEDD4;WSB1;FBXO25;UBA6;MYCBP2;ATG10;SH3RF2;ATG4C;UBE2Q2;RBL2;GPM6B;PGF;ZAK;GAS7;SPEG;SFRP1;KAZALD1;BHLHE41;SIM2;NAV1;ARHGAP24;TLL2;LGALS3;EFNA5;TS;GPM6B;DLG4;GAS7;CYP46A1;SIM2;NAV1;CCL28;RAPGEF5;TMOD2;AVIL;EFNA5;NINJ2;FZD3;GLDN;APAF1;FBXO2;MME;MME;CTSH;CASP8;GABBR1;TLL1;MAP2;PLAU;CFI;CPZ;HGF;ADAM28;PRSS23;PRSS16;F7;LRP4

3;AMY2A;ALG13;EBP;PPP1CB;NAGA;EPM2A;PDK4;GALM;HYAL3;HYAL3;GBGT1;ST3GAL5

HR;CD40;CLU;DAP3;DFFB;FXR1;ELM01;CTNBL1;CKAP2;APP;APIP;SCP2;RABEP1;ADRA1A;DOCK1;STEAP3;4;EXOC4;ATG10;RABEP1;CADPS2;SNX25;SDAD1;RAB15;ATG4C;RAB36;TPR;CHMP2B;RAB8B;XPO5;STXB5;

SULT1A2;FLJ35024;SERINC5;ACADM;CHKB;LEP;APOD

SORBS1;NCBP2;THOC1;ABCB6;TMED4;TCOF1;OSCP1;LRPPRC;SLC25A27;NDUFV3;SEC14L2;SLC35B3;SYT3;PIM1;PRG4;EDNRA

H;PLXNB1;APBB2;HMHA1;ANP32A;LCK;ECT2;CDC42BPA;DFFB;ARHGEF7;WSB1;PLCG2;DEPDC5;CHN1;SDCBP

68;AGPAT1;BCAM;GLB1L;C7orf10;ACSF2;AASDH;PNPLA3;PIGG;ACSL5;ENOSF1;PCCA;ATP2B4;NAT6;NAT6

RPL44;NAAA;STRN;DOCK9;ERLIN2;TNXB;SPSB2;APOBEC3B;INPP5B;MAPRE3;FANCD2;RCL1;AKAP13;MOV10

ZNF554; MITF; EGR2; NR4A3; ZNF615; FRY; MYBL1; CHD9; TAF1; SF1; FOXM1; NAB1; ZNF75D; HIVEP2; ZNF655; I
;15; FRY; CHD9; TP53BP1; TAF1; SF1; SF1; FOXM1; ZNF75D; HIVEP2; ZNF655; MED15; TCERG1; ZNF484; SP110; I
'3; APLN; STK3; STK3; FGF13; LIMD1; SFRP5; ASIC1; DRD4; RRB1; ODZ3; ODZ3; ARHGAP26; MLLT4; PLXND1; GN
3RD1; LDLR; CD46; HTATIP2; UBR4; SP110; KRT18; TBP; KIN; XPO1; CENPA; KRT7; UBN1; MDFIC; BNIP3L; CD4; W
PKP1; LAMC2; PARVB; FAT1; EDIL3; NPNT; BCAM; CD72; PCDH9; COL8A1; NEO1; COL9A1; TNXB; ALCAM; GPR56; API
10K; PTPRA; PIK3R4; COL4A3BP; MKNK1; FGFR3; MAP4K4; PIK3R1; ROR1; PRKCD; CDC42BPG; PTPRE; TWF1; CDK8
DM3A; OGDH; GLUD1; ALDH3B1; JMJD1C; DHRS12; ACADVL; HSD17B7; LEPRE1; CDO1; RRM2B; HMGCR; SOD1; NNT; C
NF111; FLNB; MITF; CHR1; SEMA6C; KIAA1598; SEMA5B; PLXNB2; FGF1; TNFAIP2; HHAT; SPRY4; CENPE; EBF3; C

IBS1; CXCL2; TNFSF15; ERAP1; HLA-DPA1; IFI44L; HLA-H; HLA-H; TNFRSF14; CHIT1; HLA-DRB3; HLA-DRB3; HI
ICB; ULBP1

22A5; WNK1; ATP6V1H; ANO6; ABCC4; SAT2; MFI2; SLC20A2; HEPH; SLC39A5; KCNQ5; SCN1B; SLC38A4; PKD1L2

2; SMC4; MAP3K8; CDK2; AHR; MDC1; KAT2B; DLGAP5; CKAP2; BCCIP; MKI67; DDX11; DBF4; E2F7; RAD17; KIFC1
; UBE2F; RNF19A; RFWD2; ATG12; UBE3C; KLHL9; RNF40; CDC16; ZNRF2; FBXO41; FBXO27

SK4; TSSK4; MARK2; TLL1; MGP; PBX1; UNC45A; NDRG3; GLDN; SRPK1; FXR1; SEMA4A; TXNDC2; NTNG2; FRZB; MDI
DLX6; DOK5; CHD5; SEMA4A; NOTCH4; NTNG2; MDK; EPHB2; LY6H; FLJ35024; DBN1; IGF1; ATF2; RUFY3; CHD6; MI
L; CPXM1; PC; QPCTL; MBTPS2; AGTPBP1; SUFU; LMLN; ATG4C; ADAMTS12; CFLAR; FAP; PEG10; BMP1; ADAM12; CA

; XAF1; PEG10; SH3KBP1; KRT8; UNC5B; PID1; ESPL1; TNFSF9; PDCD6IP; TIAL1

BET1; PDCD6IP; TIMM9; SNX27

ERO1LB; ABCA3; FRRS1; ETFDH; SLC7A2; FABP3; G3BP2; SLC16A9; SLC25A12; AR; PITPNM3; SLC44A1; MYO5A; C

; TP53TG5; PRKCE; RGNEF

);AGL;AGT;LCLAT1;THNSL2;MMP7;KCNT2;ECHDC3;ACO1;AMACR;MME;MOCS1;HDHD3;NEU3;ARSB;HEXA;NPL

); ZMYM2; LYPLAL1; FAM3C; TM6SF1; TMEM106A; NUB1; TRIM2; MKRN1; WNK1; KDM4C; LRP10; ABCC4; EHMT2; FIL.

MED15;TCERG1;ESR1;ZNF484;ZFY;SP110;MCM7;NPAS2;ZNF501;NPTXR;PRDM8;ATXN3;HIF3A;ARNTL2;ZNF
MCM7;ZNF501;NPTXR;PRDM8;ATXN3;ZNF354C;ZNF568;ZNF498;TBP;TSC22D1;ZNF273;MET;ZNF595;SOX6;
A01;ITGB3BP;RORA;FLNB;ZFYVE16;MCHR1;AGRN;PDK2;MAP3K6;ITPR2;GRK4;SF1;NF1;ROPN1L;TXNRD1;E
WP2;NPM1;CLDN1;AP1G2;DERL1;PIK3R1;NUP98;TRIM5;IPO5;ATP6V1H;ANKRD17;IFIH1;LCK;SLC20A2;IT
LP1;ITGA1;PCDHB9;SIRPG;CD4;CLDN1;NLGN4Y;CNTNAP1;VCAN;MPZL3;ITGA10;TNC;THBS3;CX3CL1;NLGN
;TSSK4;TSSK4;TTK;MARK2;CLK3;AKT2;CAMK2G;WNK1;MARK3;PKN2;STRADB;FGFR1;STK39;ROR2;PLK3;NR
CYP46A1;ASPH;NOX4;CYP2C8;PLOD3;ADH1C;ADH1C;TMEM91;SQRDL;ACAD9;KDM4C;CPOX;H6PD;DMGDH;HEP
SEMA4F;EPHA2;MET;SOX6;LRP5;C1GALT1;CELSR2;PKP1;AAMP;AFF3;INSC;PDLIM7;FHL1;HOXB5;PHF3;DF
LA-DRB3;HFE;CXCL14;HLA-F;CD97;ERAP2;CTSC;CXCL13;APLN;ETS1;ODZ3;PSMB8;PRKRA;LAT2;TAPBP;S
;CHRNE;SLC25A37;P2RX6;KCNIP1;SLC22A12;LST1;KCNMA1;TRPV1;SLC11A2;STEAP3;SLC12A8;TRPM7;AT
;EVI5;PDS5B;SCP2;NEK1;LMLN;STAG3;STEAP3;PPP1CB;CDC6;AIM1;CDC16;ZWILCH;G0S2

FI;EXT2;MDK;CCHCR1;TAL1;MICALCL;DBN1;PEG10;SRPK2;RUFY3;BMP1;CSRP2;PBXIP1;RGNEF;NRP2;HIP
BNL1;NRP2;FKTN
SP3;ESPL1;ANPEP;CTSK;MMP19

SLC26A6;MFSD1;SLC35F2;SLC36A1;NDUFB2;SLC19A2;GLRX;SLC7A8;SLC25A36;ABCA13;SLC28A3;UCP2;F

;GSTA4;PNPLA7;SAT2;UBA7;MAN2A2;TDG;PRNP;CRYL1;ACO2;GSTM2;DIP2A;HADHB;MANBA;CECR5;PPAT;C

IP1L;HIP1R;LRP4;KDM5C;PLEKHA5;TTC39A;CARKD;WSB1;C2CD2L;TMEM106B;POMZP3;KNDC1;LRRTM1;HNR

ZNF354C; ZNF568; ZNF498; EBF3; L3MBTL1; TBP; TSC22D1; KCNH1; ZNF273; MET; ZNF595; SOX6; SAFB2; ZNF718; SAFB2; ZNF718; RFX5; NR2F1; CCNL1; CCNL1; MORF4L1; ZSCAN29; PRDM15; AFF3; PARP14; ELP3; NR4A2; VGLL3; SR1; MAP2K5; IL15RA; PLXNB2; FGF1; LPXN; NPAS2; NPPFR1; APBB1IP; HIF3A; PDE5A; NBN; ARNTL2; MAPK8; AITGB3; CPSF4; CD1D; HCK; TNPO1; EIF4H; KAT2B; SRCAP; WWP1; CRT1; CFLAR; BANF1; KRT8; MICB; FBLN1; EIF4A1; SIRPA; ARSB; NINJ2; CD99; TNR; PPF1BP1; FBLN5; ITGB3; RAC1; PRPH; SSPN; DCBLD1; CPXM1; RGMB; MEGF10; BP1; MAP3K8; CDK2; CDC42BPA; MAST4; HCK; SRPK1; AKT3; MAP2K4; FLT4; WNK3; NRK; CASK; EPHB6; EPHB2; NEIPH; OXA1L; LDHA; CHDH; CYP19A1; KDM5C; DAO; DAO; KDM5A; PDIA5; PIPOX; PXDN; FDFT1; AR; OGFOD2; GPX2; ALIPYSL2; PRTG; EDIL3; PLXNA4; TLE1; ADAMTS9; NPNT; MMP11; IFRD1; MDGA1; TLX1; SIX4; COL13A1; SEMA3A; HO1; QSTM1; CD74; ZEB1; MAP4K2; DBNL; CD4; HLA-G; OAS1; CRHR1; CCL28; COL4A3BP; CX3CL1; PAG1; IL16; GBP3; ITP1B1; KCNJ15; KCNS3; SLC23A2; SLC23A2; SCNN1A; KCNJ5; ATP6V0D1; SLC40A1; NAT1; KCNJ6

ANPEP; MMP19; DMRTA1; ZSCAN2; PAX6; SORT1

AAH; NMI; SLC25A14; DOC2B; SLC1A3; SLC19A3; SLC25A16; CHKB; SPIRE2; LYVE1; TAP2; SORT1; APOD

DES2;KAT2B;KIAA1456;PC;WBCR27;GPAM;ATP2C1;FAH;MICAL3;HMGCL;ATP13A3;OXCT1;OGG1;AHCYL2;F

NPDP;IFI27;EXOG;SLC35F2;C14orf2;MACF1;MACF1;ETNK2;TMEM126B;FAM63B;MICALCL;LTBP1;PIGP;FAI

RFX5;RFX3;NR2F1;CCNL1;CCNL1;MORF4L1;ZSCAN29;PRDM15;AFF3;PARP14;HOXB5;NR4A2;VGLL4;DMTF1;4;PHF3;LEF1;SFPQ;ZNF566;ZNF343;ZEB1;ZNF621;ZNF776;ZNF692;ZBTB25;GTF2A2;NR1D1;PER3;HDAC2;RAP2;PTPN22;EPHA2;MYO10;PPARG;MAP2K3;LRP5;ARRB2;PPP1R12B;NR2F1;IL6ST;GNAL;PKP1;FPR1;ADRE;PDCD6IP;ANPEP

0;SVEP1;TLN2;COMP;NRXN3;NRXN3;ITGAE;LAMB1;FERMT1;NCAM1;APP;CASK;PCDH7;COL18A1;BYSL;ITGAK1;CAMK2B;IKBKE;BRAF;NUAK1;PTK7;SRPK2;CDKL1;IRAK3;AIM1;PRKCE;RIPK2;STK32C;TIE1;STK38L;FDH7A1;ADH5;MAOA;SOD3;GSR;STEAP3;ALDH1A1;FAS;PTGS1;ADI1;ASPHD1;DIO2;ACADM;SARDH;CYB5R3;AXC9;SEMA3B;CAMK1;SEMA6A;EBF1;TUBD1;SPATA20;HOXC6;GPM6B;HOXA3;PGF;GAS7;SFRP1;GLI1;VCAN;D

NUDCD1;INPP5D;CIITA;MR1;GBP1;CD40;OAS3;DCLRE1C;PXDN;CCBP2;CCBP2;LST1;SEMA3C;LIF;IKBKE;F

AHD2A;SCP2;PFKFB2;MICAL2;AMY2A;UGP2;KCNMA1;METTL7A;EBP;CBS;HIBCH;NAGA;HYAL3;HYAL3;ENPP1

M114A2;C18orf1;DENR;NIT2;LRBA;AIM1;KIAA0247;BRD1;MT1F;C11orf58;FMNL1;MFN1;TIMP4

;SFPQ;TLE1;CREB3L2;PCMI;ZNF566;ZNF343;DMAP1;MTA3;NFATC2;TLX1;REL;ZNF621;MAF;THRB;SIX4;UI
2;ZNF705G;CSRNP3;SP4;MDFIC;JMJD1C;PBRM1;ZBTB16;MPP2;ZNF419;MMS19;ZNF133;MED12;TCF7L2;GL
RBK2;NR4A2;DPYSL2;MPP1;NPHP1;PLXNA4;TLE1;CD74;ANGPTL1;HMGB1;PYCARD;GNAS;GNAS;BCAM;RASSF

A9;PSTPIP1;IBSP;LMLN;CLSTN3;ITGA7;CDH2;PTK7;MCAM;ADAM12;LGALS3BP;HYAL3;NTM;THBS2;OMD;IT
PIM1;PXK;CDK2AP1

ALDH1A2;ALDH1L1

OGKD;WNT9B;NME5;KAZALD1;FLI1;SIM2;TP63;NAV1;CCL28;ARHGAP24;TLL2;MOV10;TGIF1;EFNA5;TSSK4

AS;CEACAM8;MICB;TNFSF9;TCF7;ULBP1;SAMHD1;PF4V1;CXCL12;TAP2

l;MMP19;NAT1;ASNS;NAT10;ARSD

BE2V1;ZNF776;ZNF692;ZBTB25;CERS4;KDM3A;GTF2A2;BRCA2;NR1D1;PER3;HOXC9;HDAC2;EBF1;ZNF705G
I1;ZNF557;PHTF2;BBX;IRF5;MED22;TCEAL7;MEF2D;FLI1;FLI1;ZNF641;CAND2;WHSC1;MPP7;ZNF480;HC
5;PDE6B;FASTK;PPP1R1C;PPP3CB;ARAP3;WISP3;PTK2B;PER3;CAMK1;DLG3;TNXB;ALCAM;CASP1;INPP5B;

GB5;DPT;NRP2;NRP2;NRXN2;NRXN2;ABL2;MFAP4;CXCL12;LYVE1

;TSSK4;MARK2;TLL1;MGP;TCTN1;UNC45A;FZD3;FZD3;PLXNB1;ROR2;TIMELESS;GLDN;LAMA1;STIL;ZMYM3

;CSRNP3;JMJD1C;BCL3;PBRM1;MPP2;HOXA3;MTA1;ZNF419;ZNF133;MED12;GLI1;ZNF557;PHTF2;BBX;IRI
JAC1;LRPPRC;ZMYM2;ZNF425;ZNF782;PHF21A;SUV420H1;HDAC3;ZNF862;ROR1;ZNF512;SP7;CDK8;NR1D2
;IQGAP3;ATM;MPP2;PGF;NPM1;MTA1;DLG4;THOC1;MAPRE2;IRAK2;SFRP1;CNTNAP1;PDE4A;EPHA4;PDK3;I

3;ZBTB17;HOXB8;DIP2A;DLX6;KDM5A;FXR1;EGFL7;PLXNB3;SEMA4A;DDX1;CCBP2;TXNDC2;JARID2;SUFU;l

F5;MED22;TCEAL7;MEF2D;BHLHE41;HMBOX1;FLI1;FLI1;NFATC1;SIM2;TSC22D3;ZNF641;CAND2;WHSC1;M
;ZFP92;RARB;NFIB;TXNIP;KLF6;SEC14L2;ZNF451;C11orf30;E2F6;FOXJ2;KDM4C;ZNF684;ZNF585B;MCM
L1RAP;TLR1;TNC;TSHR;SIM2;TLR3;YWHAZ;PTCH1;RIN3;FAM13B;MOK;ARHGAP24;STAT5B;TRAF1;SAV1;AF

EVI5;SLC26A6;NTNG2;FRZB;DKK1;MDK;APOL2;CCHCR1;TAL1;SHISA3;LIF;SKIL;ADRA1A;ZFR;MICALCL;F

MPP7;EED;NCOR2;ZNF480;HDAC1;LRPPRC;ZMYM2;ZNF425;ZNF782;PHF21A;SUV420H1;DDIT3;HDAC3;ZNF8
M2;MCM2;CCNC;HMG20A;TMF1;ROR2;ANP32A;SUZ12;ESR2;ZNF496;SMAD1;IKZF3;EZH1;EZH1;BAZ2B;NONO
RHGAP6;PIK3R1;NCOA3;GRM7;ODZ4;ROR1;SYNGAP1;TNFSF13B;GABBR1;KIFAP3;HRH1;RARB;BCKDK;MTOR;

HIC1;DBN1;DSP;RUFY3;BMP1;UNC5B;MBNL3;NOV;CSRP2;CELSR1;PBXIP1;HMGB3;HOPX;NRP2;ANPEP;PIM1

62;TGIF1;ROR1;ZNF512;PRDM6;CDK8;NR1D2;YEATS2;ZFP92;TLE6;RARB;NFIB;TXNIP;PBX1;NR3C1;KLF6
;ZNF571;ZNF678;ZKSCAN3;TRIM24;ZBTB17;BAZ1A;SNAPC2;TAF1A;ZNF224;ERCC3;PHF1;KDM5C;CHD5;KAF
NR3C1;PLAU;INPP5D;SMC3;IGFBP2;FLT3LG;TNR;DLG2;RCVRN;RAPH1;PKN2;HGF;TIRAP;TLE3;ROR2;ROR2

;MMP19;ZSCAN2;PAX6;SORT1;OLFML3

3;HMG2;ZNF451;C11orf30;CIITA;E2F6;FOXJ2;KDM4C;ZNF684;ZNF585B;MCM2;MCM2;CCNC;HMG20A;TLE
AT2B;ZNF618;NR1H3;SRCAP;PADI4;ZNF84;TTF2;TTF2;MCM5;FHL2;ZFP64;ZFP64;PRDM10;ZKSCAN2;ILF2
2;LSP1;STAT4;ANK3;ESR2;INPP4B;SMAD1;MAP3K8;APBB1;ARHGAP28;GPR1;PDE1B;PTGER3;AHR;GDI1;RG

3; TMF1; ROR2; TIMELESS; ANP32A; STAT4; SUZ12; ESR2; ZNF496; MXI1; KLF5; EZH1; EZH1; ETV4; BAZ2B; PBX2
; ZNF433; GLIS3; ZSCAN23; C14orf43; ZBTB38; FRYL; ZNF700; EZH2; ZSCAN18; ZNF672; FOXP1; HNRNPD; JARID
MB; NFKB2; PRKAB1; CD40; AKT3; NR4A1; STK4; WWP1; MAP2K4; PDE3A; ANK1; RIN2; EPOR; PLXNB3; CHRNE; CCBF

| GO Term | Count | p-Value | q-Value |
|---|-------|-------------|--------------|
| GO:0016020 membrane | 761 | 0 | 0 |
| GO:0016021 integral to membrane | 696 | 0 | 0 |
| GO:0005634 nucleus | 992 | 0 | 0 |
| GO:0005737 cytoplasm | 982 | 0 | 0 |
| GO:0005886 plasma membrane | 484 | 0 | 0 |
| GO:0005576 extracellular region | 362 | 3.22837E-17 | 7.580807E-17 |
| GO:0005829 cytosol | 212 | 4.78E-211 | 8.23E-209 |
| GO:0005739 mitochondrion | 203 | 4.25E-189 | 6.86E-187 |
| GO:0005887 integral to plasma membrane | 199 | 4.25E-172 | 6.10E-170 |
| GO:0005783 endoplasmic reticulum | 173 | 1.22E-159 | 1.66E-157 |
| GO:0005794 Golgi apparatus | 153 | 5.67E-138 | 6.36E-136 |
| GO:0005730 nucleolus | 121 | 2.98E-122 | 2.85E-120 |
| GO:0042612 MHC class I protein complex | 65 | 1.69E-106 | 1.36E-104 |
| GO:0005615 extracellular space | 103 | 3.76E-93 | 2.62E-91 |
| GO:0005622 intracellular | 377 | 1.76E-91 | 1.16E-89 |
| GO:0005856 cytoskeleton | 133 | 7.43E-88 | 4.46E-86 |
| GO:0005789 endoplasmic reticulum membrane | 94 | 3.14E-82 | 1.77E-80 |
| GO:0005578 extracellular matrix (sensu Metazoa) | 75 | 1.30E-78 | 6.99E-77 |
| GO:0005624 membrane fraction | 88 | 5.56E-69 | 2.93E-67 |
| GO:0030054 cell junction | 76 | 2.17E-64 | 1.08E-62 |
| GO:0005654 nucleoplasm | 82 | 1.13E-57 | 5.23E-56 |
| GO:0005625 soluble fraction | 52 | 3.27E-55 | 1.48E-53 |
| GO:0000139 Golgi membrane | 63 | 8.52E-55 | 3.73E-53 |
| GO:0005874 microtubule | 51 | 1.49E-50 | 5.81E-49 |
| GO:0005813 centrosome | 46 | 2.68E-47 | 1.00E-45 |
| GO:0045202 synapse | 45 | 2.63E-39 | 8.50E-38 |
| GO:0009986 cell surface | 41 | 1.78E-37 | 5.47E-36 |
| GO:0005759 mitochondrial matrix | 39 | 5.90E-36 | 1.68E-34 |
| GO:0048471 perinuclear region | 26 | 1.72E-28 | 3.96E-27 |
| GO:0005768 endosome | 35 | 1.86E-28 | 4.26E-27 |
| GO:0005792 microsome | 29 | 9.90E-26 | 2.08E-24 |
| GO:0005764 lysosome | 29 | 1.38E-25 | 2.85E-24 |
| GO:0005743 mitochondrial inner membrane | 33 | 1.62E-24 | 3.24E-23 |
| GO:0005925 focal adhesion | 20 | 3.38E-24 | 6.66E-23 |
| GO:0031410 cytoplasmic vesicle | 41 | 4.62E-23 | 8.71E-22 |
| GO:0045211 postsynaptic membrane | 23 | 3.10E-22 | 5.56E-21 |
| GO:0031225 anchored to membrane | 23 | 1.43E-21 | 2.46E-20 |
| GO:0005777 peroxisome | 21 | 1.79E-21 | 3.04E-20 |
| GO:0005788 endoplasmic reticulum lumen | 18 | 3.24E-20 | 5.30E-19 |
| GO:0005875 microtubule associated complex | 21 | 3.28E-20 | 5.33E-19 |
| GO:0015629 actin cytoskeleton | 25 | 4.62E-18 | 6.82E-17 |
| GO:0005765 lysosomal membrane | 16 | 5.07E-18 | 7.37E-17 |
| GO:0030173 integral to Golgi membrane | 14 | 9.24E-18 | 1.33E-16 |
| GO:0009897 external side of plasma membrane | 17 | 1.82E-17 | 2.59E-16 |
| GO:0008305 integrin complex | 12 | 3.84E-17 | 5.30E-16 |
| GO:0001726 ruffle | 14 | 3.88E-17 | 5.31E-16 |
| GO:0016607 nuclear speck | 17 | 6.39E-17 | 8.69E-16 |
| GO:0016363 nuclear matrix | 14 | 7.51E-17 | 1.01E-15 |
| GO:0016323 basolateral plasma membrane | 20 | 1.64E-16 | 2.17E-15 |
| GO:0042995 cell projection | 31 | 1.74E-16 | 2.27E-15 |
| GO:0016459 myosin | 15 | 2.05E-16 | 2.66E-15 |

| | | | | |
|------------|---------------------------------------|----|----------|----------|
| G0:0031965 | nuclear membrane | 18 | 2.33E-16 | 3.02E-15 |
| G0:0005741 | mitochondrial outer membrane | 16 | 2.39E-16 | 3.08E-15 |
| G0:0016324 | apical plasma membrane | 17 | 4.22E-16 | 5.38E-15 |
| G0:0005694 | chromosome | 28 | 7.18E-16 | 9.00E-15 |
| G0:0005581 | collagen | 12 | 9.84E-16 | 1.23E-14 |
| G0:0045121 | lipid raft | 15 | 1.33E-15 | 1.65E-14 |
| G0:0030424 | axon | 13 | 6.61E-15 | 7.80E-14 |
| G0:0031093 | platelet alpha granule lumen | 11 | 3.28E-14 | 3.60E-13 |
| G0:0000785 | chromatin | 18 | 3.42E-14 | 3.74E-13 |
| G0:0005681 | spliceosome complex | 17 | 7.68E-14 | 8.20E-13 |
| G0:0000118 | histone deacetylase complex | 10 | 9.93E-14 | 1.04E-12 |
| G0:0005905 | coated pit | 11 | 2.50E-13 | 2.53E-12 |
| G0:0000777 | condensed chromosome kinetochore | 11 | 2.50E-13 | 2.53E-12 |
| G0:0042470 | melanosome | 14 | 5.78E-13 | 5.69E-12 |
| G0:0005604 | basement membrane | 12 | 1.05E-12 | 1.02E-11 |
| G0:0005819 | spindle | 14 | 1.96E-12 | 1.87E-11 |
| G0:0005923 | tight junction | 12 | 3.57E-12 | 3.36E-11 |
| G0:0005840 | ribosome | 18 | 4.65E-12 | 4.35E-11 |
| G0:0030426 | growth cone | 9 | 5.31E-12 | 4.92E-11 |
| G0:0005606 | laminin-1 | 6 | 8.45E-12 | 7.77E-11 |
| G0:0009925 | basal plasma membrane | 8 | 8.87E-12 | 8.11E-11 |
| G0:0005643 | nuclear pore | 12 | 1.07E-11 | 9.64E-11 |
| G0:0030027 | lamellipodium | 10 | 2.49E-11 | 2.17E-10 |
| G0:0008076 | voltage-gated potassium channel compl | 12 | 7.23E-11 | 6.02E-10 |
| G0:0005635 | nuclear envelope | 17 | 9.72E-11 | 7.99E-10 |
| G0:0000145 | exocyst | 5 | 1.18E-10 | 9.60E-10 |
| G0:0000151 | ubiquitin ligase complex | 11 | 3.81E-10 | 2.93E-09 |
| G0:0005938 | cell cortex | 11 | 4.41E-10 | 3.38E-09 |
| G0:0005929 | cilium | 12 | 7.50E-10 | 5.59E-09 |
| G0:0043025 | cell soma | 10 | 1.26E-09 | 9.19E-09 |
| G0:0005891 | voltage-gated calcium channel complex | 7 | 1.87E-09 | 1.34E-08 |
| G0:0010008 | endosome membrane | 13 | 2.25E-09 | 1.59E-08 |
| G0:0042613 | MHC class II protein complex | 8 | 3.84E-09 | 2.61E-08 |
| G0:0005769 | early endosome | 10 | 4.14E-09 | 2.81E-08 |
| G0:0000242 | pericentriolar material | 5 | 6.44E-09 | 4.22E-08 |
| G0:0000159 | protein phosphatase type 2A complex | 6 | 1.37E-08 | 8.54E-08 |
| G0:0030659 | cytoplasmic vesicle membrane | 12 | 1.63E-08 | 1.01E-07 |
| G0:0042383 | sarcolemma | 7 | 2.08E-08 | 1.26E-07 |
| G0:0042645 | mitochondrial nucleoid | 7 | 2.08E-08 | 1.26E-07 |
| G0:0005793 | ER-Golgi intermediate compartment | 8 | 2.39E-08 | 1.44E-07 |
| G0:0005814 | centriole | 5 | 5.18E-08 | 3.01E-07 |
| G0:0001527 | microfibril | 4 | 5.66E-08 | 3.25E-07 |
| G0:0008021 | synaptic vesicle | 8 | 6.52E-08 | 3.67E-07 |
| G0:0019898 | extrinsic to membrane | 9 | 9.11E-08 | 5.06E-07 |
| G0:0005667 | transcription factor complex | 12 | 1.12E-07 | 6.19E-07 |
| G0:0005605 | basal lamina | 5 | 1.42E-07 | 7.71E-07 |
| G0:0016012 | sarcoglycan complex | 4 | 1.68E-07 | 9.01E-07 |
| G0:0030018 | Z disc | 6 | 2.35E-07 | 1.22E-06 |
| G0:0031902 | late endosome membrane | 7 | 2.47E-07 | 1.28E-06 |
| G0:0031901 | early endosome membrane | 6 | 2.99E-07 | 1.54E-06 |
| G0:0005802 | Golgi trans face | 6 | 3.78E-07 | 1.91E-06 |
| G0:0034451 | centriolar satellite | 4 | 3.90E-07 | 1.95E-06 |

| | | | | |
|------------|---------------------------------------|---|----------|----------|
| G0:0046658 | anchored to plasma membrane | 5 | 6.58E-07 | 3.17E-06 |
| G0:0005640 | nuclear outer membrane | 5 | 6.58E-07 | 3.17E-06 |
| G0:0000307 | cyclin-dependent protein kinase holoe | 4 | 7.73E-07 | 3.67E-06 |
| G0:0005881 | cytoplasmic microtubule | 4 | 7.73E-07 | 3.67E-06 |
| G0:0043034 | costamere | 4 | 7.73E-07 | 3.67E-06 |
| G0:0005876 | spindle microtubule | 5 | 1.22E-06 | 5.40E-06 |
| G0:0030425 | dendrite | 7 | 1.87E-06 | 8.16E-06 |
| G0:0005901 | caveola | 5 | 2.09E-06 | 9.07E-06 |
| G0:0005637 | nuclear inner membrane | 5 | 2.68E-06 | 1.14E-05 |
| G0:0000015 | phosphopyruvate hydratase complex | 3 | 4.39E-06 | 1.80E-05 |
| G0:0005947 | alpha-ketoglutarate dehydrogenase com | 3 | 4.39E-06 | 1.80E-05 |
| G0:0009341 | beta-galactosidase complex | 3 | 4.39E-06 | 1.80E-05 |
| G0:0045095 | keratin filament | 8 | 4.74E-06 | 1.91E-05 |
| G0:0000922 | spindle pole | 5 | 5.28E-06 | 2.11E-05 |
| G0:0030496 | midbody | 4 | 5.29E-06 | 2.11E-05 |
| G0:0008023 | transcription elongation factor compl | 4 | 5.29E-06 | 2.11E-05 |
| G0:0019717 | synaptosome | 6 | 1.03E-05 | 3.98E-05 |
| G0:0005665 | DNA-directed RNA polymerase II, core | 4 | 1.05E-05 | 4.03E-05 |
| G0:0016514 | SWI/SNF complex | 4 | 1.05E-05 | 4.03E-05 |
| G0:0043197 | dendritic spine | 4 | 1.05E-05 | 4.03E-05 |
| G0:0005680 | anaphase-promoting complex | 4 | 1.05E-05 | 4.03E-05 |
| G0:0046581 | intercellular canaliculus | 3 | 1.09E-05 | 4.10E-05 |
| G0:0016529 | sarcoplasmic reticulum | 5 | 1.36E-05 | 5.01E-05 |
| G0:0014069 | postsynaptic density | 4 | 1.42E-05 | 5.20E-05 |
| G0:0034361 | very-low-density lipoprotein particle | 4 | 1.42E-05 | 5.20E-05 |
| G0:0005639 | integral to nuclear inner membrane | 3 | 2.16E-05 | 7.52E-05 |
| G0:0005663 | DNA replication factor C complex | 3 | 2.16E-05 | 7.52E-05 |
| G0:0008385 | IkappaB kinase complex | 3 | 2.16E-05 | 7.52E-05 |
| G0:0000796 | condensin complex | 3 | 2.16E-05 | 7.52E-05 |
| G0:0030286 | dynein complex | 5 | 2.20E-05 | 7.53E-05 |
| G0:0001669 | acrosome | 5 | 2.96E-05 | 9.98E-05 |
| G0:0005763 | mitochondrial small ribosomal subunit | 4 | 3.11E-05 | 1.04E-04 |
| G0:0000775 | chromosome, pericentric region | 7 | 4.14E-05 | 1.33E-04 |
| G0:0033162 | melanosome membrane | 3 | 5.95E-05 | 1.88E-04 |
| G0:0030176 | integral to endoplasmic reticulum mem | 5 | 7.30E-05 | 2.26E-04 |
| G0:0005778 | peroxisomal membrane | 5 | 8.19E-05 | 2.53E-04 |
| G0:0032580 | Golgi cisterna membrane | 3 | 8.86E-05 | 2.68E-04 |
| G0:0043204 | perikaryon | 3 | 8.86E-05 | 2.68E-04 |
| G0:0016281 | eukaryotic translation initiation fac | 3 | 8.86E-05 | 2.68E-04 |
| G0:0000119 | mediator complex | 4 | 1.03E-04 | 3.04E-04 |
| G0:0016605 | PML body | 4 | 1.03E-04 | 3.04E-04 |
| G0:0016235 | aggresome | 2 | 1.07E-04 | 3.04E-04 |
| G0:0005592 | collagen type XI | 2 | 1.07E-04 | 3.04E-04 |
| G0:0005584 | collagen type I | 2 | 1.07E-04 | 3.04E-04 |
| G0:0043259 | laminin-10 | 2 | 1.07E-04 | 3.04E-04 |
| G0:0005642 | annulate lamellae | 2 | 1.07E-04 | 3.04E-04 |
| G0:0033257 | Bcl3/NF-kappaB2 complex | 2 | 1.07E-04 | 3.04E-04 |
| G0:0032301 | MutSalpha complex | 2 | 1.07E-04 | 3.04E-04 |
| G0:0019008 | molybdopterin synthase complex | 2 | 1.07E-04 | 3.04E-04 |
| G0:0032302 | MutSbeta complex | 2 | 1.07E-04 | 3.04E-04 |
| G0:0035098 | ESC/E(Z) complex | 2 | 1.07E-04 | 3.04E-04 |
| G0:0030133 | transport vesicle | 5 | 1.70E-04 | 4.50E-04 |

| | | | | |
|------------|---------------------------------------|---|-----------|-----------|
| G0:0032039 | integrator complex | 3 | 1.71E-04 | 4.50E-04 |
| G0:0031941 | filamentous actin | 3 | 1.71E-04 | 4.50E-04 |
| G0:0034362 | low-density lipoprotein particle | 3 | 2.27E-04 | 5.85E-04 |
| G0:0005657 | replication fork | 4 | 2.88E-04 | 7.33E-04 |
| G0:0030130 | clathrin coat of trans-Golgi network | 3 | 2.92E-04 | 7.39E-04 |
| G0:0031461 | cullin-RING ubiquitin ligase complex | 3 | 2.92E-04 | 7.39E-04 |
| G0:0005844 | polysome | 3 | 2.92E-04 | 7.39E-04 |
| G0:0048786 | presynaptic active zone | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005945 | 6-phosphofructokinase complex | 2 | 3.19E-04 | 7.58E-04 |
| G0:0030895 | apolipoprotein B mRNA editing enzyme | 2 | 3.19E-04 | 7.58E-04 |
| G0:0000780 | condensed nuclear chromosome, pericen | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005588 | collagen type V | 2 | 3.19E-04 | 7.58E-04 |
| G0:0032281 | alpha-amino-3-hydroxy-5-methyl-4-isox | 2 | 3.19E-04 | 7.58E-04 |
| G0:0000300 | peripheral to membrane of membrane fr | 2 | 3.19E-04 | 7.58E-04 |
| G0:0001940 | male pronucleus | 2 | 3.19E-04 | 7.58E-04 |
| G0:0042405 | nuclear inclusion body | 2 | 3.19E-04 | 7.58E-04 |
| G0:0000940 | outer kinetochore of condensed chromo | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005816 | spindle pole body | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005896 | interleukin-6 receptor complex | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005900 | oncostatin-M receptor complex | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005594 | collagen type IX | 2 | 3.19E-04 | 7.58E-04 |
| G0:0031616 | spindle pole centrosome | 2 | 3.19E-04 | 7.58E-04 |
| G0:0000794 | condensed nuclear chromosome | 4 | 3.68E-04 | 8.50E-04 |
| G0:0005801 | Golgi cis face | 3 | 4.58E-04 | 0.0010395 |
| G0:0005955 | calcineurin complex | 2 | 6.33E-04 | 0.0013395 |
| G0:0014731 | spectrin-associated cytoskeleton | 2 | 6.33E-04 | 0.0013395 |
| G0:0005828 | kinetochore microtubule | 2 | 6.33E-04 | 0.0013395 |
| G0:0000444 | MIS12/MIND type complex | 2 | 6.33E-04 | 0.0013395 |
| G0:0005954 | calcium- and calmodulin-dependent pro | 2 | 6.33E-04 | 0.0013395 |
| G0:0001939 | female pronucleus | 2 | 6.33E-04 | 0.0013395 |
| G0:0005652 | nuclear lamina | 2 | 6.33E-04 | 0.0013395 |
| G0:0005672 | transcription factor TFIIA complex | 2 | 6.33E-04 | 0.0013395 |
| G0:0005850 | eukaryotic translation initiation fac | 2 | 6.33E-04 | 0.0013395 |
| G0:0000800 | lateral element | 2 | 6.33E-04 | 0.0013395 |
| G0:0016942 | insulin-like growth factor binding pr | 2 | 6.33E-04 | 0.0013395 |
| G0:0030530 | heterogeneous nuclear ribonucleoprote | 3 | 6.74E-04 | 0.0014136 |
| G0:0016010 | dystrophin-associated glycoprotein co | 3 | 6.74E-04 | 0.0014136 |
| G0:0001725 | stress fiber | 3 | 6.74E-04 | 0.0014136 |
| G0:0019861 | flagellum | 4 | 7.04E-04 | 0.0014708 |
| G0:0005747 | respiratory chain complex I (sensu Eu | 4 | 0.001022 | 0.0020745 |
| G0:0043195 | terminal button | 2 | 0.0010474 | 0.0020745 |
| G0:0030122 | AP-2 adaptor complex | 2 | 0.0010474 | 0.0020745 |
| G0:0030121 | AP-1 adaptor complex | 2 | 0.0010474 | 0.0020745 |
| G0:0005958 | DNA-dependent protein kinase complex | 2 | 0.0010474 | 0.0020745 |
| G0:0042825 | TAP complex | 2 | 0.0010474 | 0.0020745 |
| G0:0032154 | cleavage furrow | 2 | 0.0010474 | 0.0020745 |
| G0:0042765 | GPI-anchor transamidase complex | 2 | 0.0010474 | 0.0020745 |
| G0:0005669 | transcription factor TFIID complex | 3 | 0.0011045 | 0.0021361 |
| G0:0034364 | high-density lipoprotein particle | 3 | 0.0011045 | 0.0021361 |
| G0:0005911 | intercellular junction | 7 | 0.0011074 | 0.0021361 |
| G0:0030864 | cortical actin cytoskeleton | 3 | 0.0014692 | 0.002809 |
| G0:0019907 | cyclin-dependent protein kinase activ | 2 | 0.0015602 | 0.0029289 |

| | | | | |
|------------|---------------------------------------|---|-----------|-----------|
| G0:0016461 | unconventional myosin | 2 | 0.0015602 | 0.0029289 |
| G0:0033179 | proton-transporting V-type ATPase, VO | 2 | 0.0015602 | 0.0029289 |
| G0:0005658 | alpha DNA polymerase:primase complex | 2 | 0.0015602 | 0.0029289 |
| G0:0008278 | cohesin complex | 2 | 0.0015602 | 0.0029289 |
| G0:0005868 | cytoplasmic dynein complex | 2 | 0.0015602 | 0.0029289 |
| G0:0005851 | eukaryotic translation initiation fac | 2 | 0.0015602 | 0.0029289 |
| G0:0030141 | secretory granule | 6 | 0.0016338 | 0.0030209 |
| G0:0031513 | nonmotile primary cilium | 3 | 0.0016766 | 0.0030901 |
| G0:0005859 | muscle myosin | 3 | 0.0021442 | 0.0038711 |
| G0:0005577 | fibrinogen complex | 2 | 0.0021693 | 0.0038711 |
| G0:0030669 | clathrin-coated endocytic vesicle mem | 2 | 0.0021693 | 0.0038711 |
| G0:0008290 | F-actin capping protein complex | 2 | 0.0021693 | 0.0038711 |
| G0:0016471 | hydrogen-translocating V-type ATPase | 2 | 0.0021693 | 0.0038711 |
| G0:0034464 | BBSome | 2 | 0.0021693 | 0.0038711 |
| G0:0032420 | stereocilium | 2 | 0.0021693 | 0.0038711 |
| G0:0005675 | transcription factor TFIID complex | 2 | 0.0021693 | 0.0038711 |
| G0:0005786 | signal recognition particle (sensu Eu | 2 | 0.0021693 | 0.0038711 |
| G0:0000781 | chromosome, telomeric region | 3 | 0.0024053 | 0.004215 |
| G0:0005884 | actin filament | 3 | 0.0026852 | 0.0046944 |
| G0:0005834 | heterotrimeric G-protein complex | 3 | 0.0026852 | 0.0046944 |
| G0:0005890 | sodium:potassium-exchanging ATPase co | 2 | 0.0028726 | 0.0049476 |
| G0:0008250 | oligosaccharyl transferase complex | 2 | 0.0028726 | 0.0049476 |
| G0:0005861 | troponin complex | 2 | 0.0028726 | 0.0049476 |
| G0:0030136 | clathrin-coated vesicle | 5 | 0.0028904 | 0.0049476 |
| G0:0030131 | clathrin adaptor complex | 3 | 0.0029844 | 0.0050967 |
| G0:0031227 | intrinsic to endoplasmic reticulum me | 4 | 0.0031086 | 0.0052964 |
| G0:0005795 | Golgi stack | 3 | 0.0036423 | 0.0060947 |
| G0:0008091 | spectrin | 2 | 0.003668 | 0.0060947 |
| G0:0005796 | Golgi lumen | 2 | 0.003668 | 0.0060947 |
| G0:0030057 | desmosome | 2 | 0.003668 | 0.0060947 |
| G0:0030672 | synaptic vesicle membrane | 2 | 0.003668 | 0.0060947 |
| G0:0043190 | ATP-binding cassette (ABC) transporte | 2 | 0.003668 | 0.0060947 |
| G0:0017119 | Golgi transport complex | 2 | 0.003668 | 0.0060947 |
| G0:0030867 | rough endoplasmic reticulum membrane | 2 | 0.0045536 | 0.0074185 |
| G0:0005952 | cAMP-dependent protein kinase complex | 2 | 0.0045536 | 0.0074185 |
| G0:0000930 | gamma-tubulin complex | 2 | 0.0045536 | 0.0074185 |
| G0:0005932 | basal body | 2 | 0.0045536 | 0.0074185 |
| G0:0008180 | signalosome complex | 2 | 0.0045536 | 0.0074185 |
| G0:0000786 | nucleosome | 4 | 0.0046863 | 0.0075701 |
| G0:0031674 | I band | 3 | 0.0047835 | 0.0077103 |
| G0:0008287 | protein serine/threonine phosphatase | 3 | 0.0052064 | 0.0083736 |
| G0:0000228 | nuclear chromosome | 5 | 0.0052547 | 0.0084434 |
| G0:0016328 | lateral plasma membrane | 2 | 0.0055275 | 0.0088133 |
| G0:0031526 | brush border membrane | 2 | 0.0055275 | 0.0088133 |
| G0:0042627 | chylomicron | 2 | 0.0065876 | 0.010366 |
| G0:0001518 | voltage-gated sodium channel complex | 2 | 0.0065876 | 0.010366 |
| G0:0005942 | phosphoinositide 3-kinase complex | 2 | 0.0065876 | 0.010366 |
| G0:0005811 | lipid particle | 2 | 0.0065876 | 0.010366 |
| G0:0045177 | apical part of cell | 5 | 0.0081627 | 0.0124472 |
| G0:0009434 | flagellum (sensu Eukaryota) | 2 | 0.0089593 | 0.0124472 |
| G0:0043005 | neuron projection | 5 | 0.0096503 | 0.0124472 |
| G0:0030175 | filopodium | 2 | 0.0102672 | 0.0124472 |

| | | | | |
|------------|---------------------------------------|---|-----------|-----------|
| G0:0005596 | collagen type XIV | 1 | 0.0103422 | 0.0124472 |
| G0:0031095 | platelet dense tubular network membra | 1 | 0.0103422 | 0.0124472 |
| G0:0005590 | collagen type VII | 1 | 0.0103422 | 0.0124472 |
| G0:0005749 | respiratory chain complex II (sensu E | 1 | 0.0103422 | 0.0124472 |
| G0:0034359 | mature chylomicron | 1 | 0.0103422 | 0.0124472 |
| G0:0034360 | chylomicron remnant | 1 | 0.0103422 | 0.0124472 |
| G0:0000125 | PCAF complex | 1 | 0.0103422 | 0.0124472 |
| G0:0031302 | intrinsic to endosome membrane | 1 | 0.0103422 | 0.0124472 |
| G0:0009330 | DNA topoisomerase complex (ATP-hydrol | 1 | 0.0103422 | 0.0124472 |
| G0:0019035 | viral integration complex | 1 | 0.0103422 | 0.0124472 |
| G0:0002079 | inner acrosomal membrane | 1 | 0.0103422 | 0.0124472 |
| G0:0031380 | nuclear RNA-directed RNA polymerase c | 1 | 0.0103422 | 0.0124472 |
| G0:0070062 | extracellular vesicular exosome | 1 | 0.0103422 | 0.0124472 |
| G0:0043625 | delta DNA polymerase complex | 1 | 0.0103422 | 0.0124472 |
| G0:0005595 | collagen type XII | 1 | 0.0103422 | 0.0124472 |
| G0:0042555 | MCM complex | 1 | 0.0103422 | 0.0124472 |
| G0:0005969 | serine-pyruvate aminotransferase, typ | 1 | 0.0103422 | 0.0124472 |
| G0:0005585 | collagen type II | 1 | 0.0103422 | 0.0124472 |
| G0:0032588 | trans-Golgi network membrane | 1 | 0.0103422 | 0.0124472 |
| G0:0005600 | collagen type XIII | 1 | 0.0103422 | 0.0124472 |
| G0:0005591 | collagen type VIII | 1 | 0.0103422 | 0.0124472 |
| G0:0033593 | BRCA2-MAGE-D1 complex | 1 | 0.0103422 | 0.0124472 |
| G0:0043626 | PCNA complex | 1 | 0.0103422 | 0.0124472 |
| G0:0032996 | Bcl3-Bcl10 complex | 1 | 0.0103422 | 0.0124472 |
| G0:0033270 | paranode region of axon | 1 | 0.0103422 | 0.0124472 |
| G0:0032839 | dendrite cytoplasm | 1 | 0.0103422 | 0.0124472 |
| G0:0000262 | mitochondrial chromosome | 1 | 0.0103422 | 0.0124472 |
| G0:0043033 | isoamylase complex | 1 | 0.0103422 | 0.0124472 |
| G0:0005943 | 1-phosphatidylinositol-4-phosphate ki | 1 | 0.0103422 | 0.0124472 |
| G0:0048787 | active zone presynaptic plasma membra | 1 | 0.0103422 | 0.0124472 |
| G0:0016939 | kinesin II complex | 1 | 0.0103422 | 0.0124472 |
| G0:0048222 | glycoprotein network | 1 | 0.0103422 | 0.0124472 |
| G0:0000221 | hydrogen-transporting ATPase VI domai | 1 | 0.0103422 | 0.0124472 |
| G0:0005608 | laminin-3 | 1 | 0.0103422 | 0.0124472 |
| G0:0005607 | laminin-2 | 1 | 0.0103422 | 0.0124472 |
| G0:0043257 | laminin-8 | 1 | 0.0103422 | 0.0124472 |
| G0:0070195 | growth hormone receptor complex | 1 | 0.0103422 | 0.0124472 |
| G0:0005726 | perichromatin fibrils | 1 | 0.0103422 | 0.0124472 |
| G0:0031315 | extrinsic to mitochondrial outer memb | 1 | 0.0103422 | 0.0124472 |
| G0:0005895 | interleukin-5 receptor complex | 1 | 0.0103422 | 0.0124472 |
| G0:0045160 | myosin I | 1 | 0.0103422 | 0.0124472 |
| G0:0005760 | gamma DNA polymerase complex | 1 | 0.0103422 | 0.0124472 |
| G0:0005953 | CAAX-protein geranylgeranyltransferas | 1 | 0.0103422 | 0.0124472 |
| G0:0019897 | extrinsic to plasma membrane | 3 | 0.0106762 | 0.0124472 |
| G0:0042734 | presynaptic membrane | 2 | 0.011654 | 0.0135321 |
| G0:0005871 | kinesin complex | 2 | 0.011654 | 0.0135321 |
| G0:0005882 | intermediate filament | 6 | 0.0118729 | 0.0137585 |
| G0:0000793 | condensed chromosome | 4 | 0.0128979 | 0.0149162 |
| G0:0055037 | recycling endosome | 2 | 0.0146573 | 0.0168566 |
| G0:0005913 | cell-cell adherens junction | 2 | 0.0162704 | 0.0186205 |
| G0:0000784 | nuclear chromosome, telomeric region | 2 | 0.0162704 | 0.0186205 |
| G0:0005798 | Golgi-associated vesicle | 3 | 0.0176371 | 0.0201444 |

| | | | | |
|------------|---------------------------------------|---|-----------|-----------|
| G0:0005839 | proteasome core complex (sensu Eukary | 2 | 0.0179555 | 0.0204539 |
| G0:0001533 | cornified envelope | 2 | 0.0179555 | 0.0204539 |
| G0:0005902 | microvillus | 2 | 0.019711 | 0.0208804 |
| G0:0031528 | microvillus membrane | 1 | 0.0205774 | 0.0208804 |
| G0:0060076 | excitatory synapse | 1 | 0.0205774 | 0.0208804 |
| G0:0030892 | mitotic cohesin complex | 1 | 0.0205774 | 0.0208804 |
| G0:0014802 | terminal cisterna | 1 | 0.0205774 | 0.0208804 |
| G0:0031904 | endosome lumen | 1 | 0.0205774 | 0.0208804 |
| G0:0000791 | euchromatin | 1 | 0.0205774 | 0.0208804 |
| G0:0005589 | collagen type VI | 1 | 0.0205774 | 0.0208804 |
| G0:0045098 | type III intermediate filament | 1 | 0.0205774 | 0.0208804 |
| G0:0033093 | Weibel-Palade body | 1 | 0.0205774 | 0.0208804 |
| G0:0005638 | lamin filament | 1 | 0.0205774 | 0.0208804 |
| G0:0032473 | external side of mitochondrial outer | 1 | 0.0205774 | 0.0208804 |
| G0:0031436 | BRCA1-BARD1 complex | 1 | 0.0205774 | 0.0208804 |
| G0:0031305 | integral to mitochondrial inner membr | 1 | 0.0205774 | 0.0208804 |
| G0:0005827 | polar microtubule | 1 | 0.0205774 | 0.0208804 |
| G0:0045273 | respiratory chain complex II | 1 | 0.0205774 | 0.0208804 |
| G0:0032807 | DNA ligase IV complex | 1 | 0.0205774 | 0.0208804 |
| G0:0005915 | zonula adherens | 1 | 0.0205774 | 0.0208804 |
| G0:0000172 | ribonuclease MRP complex | 1 | 0.0205774 | 0.0208804 |
| G0:0008074 | guanylate cyclase complex, soluble | 1 | 0.0205774 | 0.0208804 |
| G0:0005845 | mRNA cap complex | 1 | 0.0205774 | 0.0208804 |
| G0:0031234 | extrinsic to internal side of plasma | 1 | 0.0205774 | 0.0208804 |
| G0:0031089 | platelet dense granule lumen | 1 | 0.0205774 | 0.0208804 |
| G0:0031088 | platelet dense granule membrane | 1 | 0.0205774 | 0.0208804 |
| G0:0005797 | Golgi medial cisterna | 1 | 0.0205774 | 0.0208804 |
| G0:0042599 | lamellar body | 1 | 0.0205774 | 0.0208804 |
| G0:0000120 | RNA polymerase I transcription factor | 1 | 0.0205774 | 0.0208804 |
| G0:0045298 | tubulin | 1 | 0.0205774 | 0.0208804 |
| G0:0031588 | AMP-activated protein kinase complex | 1 | 0.0205774 | 0.0208804 |
| G0:0060170 | cilium membrane | 1 | 0.0205774 | 0.0208804 |
| G0:0042587 | glycogen granule | 1 | 0.0205774 | 0.0208804 |
| G0:0000792 | heterochromatin | 2 | 0.0215352 | 0.0208804 |
| G0:0030117 | membrane coat | 3 | 0.0233904 | 0.022624 |
| G0:0005770 | late endosome | 3 | 0.0233904 | 0.022624 |
| G0:0000790 | nuclear chromatin | 2 | 0.0253833 | 0.0244418 |
| G0:0034704 | calcium channel complex | 2 | 0.0274041 | 0.0263287 |
| G0:0005746 | mitochondrial electron transport chai | 3 | 0.0277238 | 0.0266013 |
| G0:0034747 | Axin-APC-beta-catenin-GSK3B complex | 1 | 0.0307068 | 0.0278996 |
| G0:0001891 | phagocytic cup | 1 | 0.0307068 | 0.0278996 |
| G0:0008282 | ATP-sensitive potassium channel compl | 1 | 0.0307068 | 0.0278996 |
| G0:0009331 | glycerol-3-phosphate dehydrogenase co | 1 | 0.0307068 | 0.0278996 |
| G0:0005826 | contractile ring | 1 | 0.0307068 | 0.0278996 |
| G0:0001520 | outer dense fiber | 1 | 0.0307068 | 0.0278996 |
| G0:0034430 | monolayer-surrounded lipid storage bo | 1 | 0.0307068 | 0.0278996 |
| G0:0016600 | flotillin complex | 1 | 0.0307068 | 0.0278996 |
| G0:0030904 | retromer complex | 1 | 0.0307068 | 0.0278996 |
| G0:0000176 | nuclear exosome (RNase complex) | 1 | 0.0307068 | 0.0278996 |
| G0:0005964 | phosphorylase kinase complex | 1 | 0.0307068 | 0.0278996 |
| G0:0042641 | actomyosin | 1 | 0.0307068 | 0.0278996 |
| G0:0042272 | nuclear RNA export factor complex | 1 | 0.0307068 | 0.0278996 |

| | | | | |
|------------|---------------------------------------|---|-----------|-----------|
| G0:0070022 | transforming growth factor beta recep | 1 | 0.0307068 | 0.0278996 |
| G0:0005758 | mitochondrial intermembrane space | 2 | 0.0360967 | 0.0317405 |
| G0:0016342 | catenin complex | 1 | 0.0407315 | 0.0340517 |
| G0:0030877 | beta-catenin destruction complex | 1 | 0.0407315 | 0.0340517 |
| G0:0034363 | intermediate-density lipoprotein part | 1 | 0.0407315 | 0.0340517 |
| G0:0031143 | pseudopodium | 1 | 0.0407315 | 0.0340517 |
| G0:0016602 | CCAAT-binding factor complex | 1 | 0.0407315 | 0.0340517 |
| G0:0030870 | Mre11 complex | 1 | 0.0407315 | 0.0340517 |
| G0:0005664 | nuclear origin of replication recogni | 1 | 0.0407315 | 0.0340517 |
| G0:0031371 | ubiquitin conjugating enzyme complex | 1 | 0.0407315 | 0.0340517 |
| G0:0000109 | nucleotide-excision repair complex | 1 | 0.0407315 | 0.0340517 |
| G0:0005862 | muscle thin filament tropomyosin | 1 | 0.0407315 | 0.0340517 |
| G0:0031514 | motile secondary cilium | 1 | 0.0407315 | 0.0340517 |
| G0:0030863 | cortical cytoskeleton | 2 | 0.0432153 | 0.0360429 |
| G0:0005916 | fascia adherens | 1 | 0.0506525 | 0.0406098 |
| G0:0035253 | ciliary rootlet | 1 | 0.0506525 | 0.0406098 |
| G0:0014701 | junctional sarcoplasmic reticulum mem | 1 | 0.0506525 | 0.0406098 |
| G0:0033018 | sarcoplasmic reticulum lumen | 1 | 0.0506525 | 0.0406098 |
| G0:0005782 | peroxisomal matrix | 1 | 0.0506525 | 0.0406098 |
| G0:0031233 | intrinsic to external side of plasma | 1 | 0.0506525 | 0.0406098 |
| G0:0010369 | chromocenter | 1 | 0.0506525 | 0.0406098 |
| G0:0045335 | phagocytic vesicle | 1 | 0.0506525 | 0.0406098 |
| G0:0000808 | origin recognition complex | 1 | 0.0506525 | 0.0406098 |
| G0:0005775 | vacuolar lumen | 1 | 0.0506525 | 0.0406098 |
| G0:0042827 | platelet dense granule | 1 | 0.0506525 | 0.0406098 |
| G0:0005697 | telomerase holoenzyme complex | 1 | 0.0506525 | 0.0406098 |
| G0:0022625 | cytosolic large ribosomal subunit | 2 | 0.0588318 | 0.046931 |
| G0:0035267 | TIP60 histone acetyltransferase compl | 1 | 0.0604709 | 0.0471245 |
| G0:0005678 | chromatin assembly complex | 1 | 0.0604709 | 0.0471245 |
| G0:0005587 | collagen type IV | 1 | 0.0604709 | 0.0471245 |
| G0:0031672 | A band | 1 | 0.0604709 | 0.0471245 |
| G0:0032391 | photoreceptor connecting cilium | 1 | 0.0604709 | 0.0471245 |
| G0:0005655 | nucleolar ribonuclease P complex | 1 | 0.0604709 | 0.0471245 |
| G0:0032040 | small subunit processome | 1 | 0.0604709 | 0.0471245 |
| G0:0005662 | DNA replication factor A complex | 1 | 0.0604709 | 0.0471245 |
| G0:0001739 | sex chromatin | 1 | 0.0604709 | 0.0471245 |
| G0:0005869 | dynactin complex | 1 | 0.0604709 | 0.0471245 |
| G0:0000127 | transcription factor TFIIC complex | 1 | 0.0604709 | 0.0471245 |
| G0:0042719 | mitochondrial intermembrane space pro | 1 | 0.0604709 | 0.0471245 |
| G0:0005912 | adherens junction | 3 | 0.0670444 | 0.051919 |
| G0:0005885 | Arp2/3 protein complex | 1 | 0.0701879 | 0.053583 |
| G0:0042824 | MHC class I peptide loading complex | 1 | 0.0701879 | 0.053583 |
| G0:0045261 | proton-transporting ATP synthase comp | 1 | 0.0701879 | 0.053583 |
| G0:0031519 | PcG protein complex | 1 | 0.0701879 | 0.053583 |
| G0:0005666 | DNA-directed RNA polymerase III compl | 1 | 0.0701879 | 0.053583 |
| G0:0016581 | NuRD complex | 1 | 0.0701879 | 0.053583 |
| G0:0016234 | inclusion body | 1 | 0.0701879 | 0.053583 |
| G0:0043209 | myelin sheath | 1 | 0.0701879 | 0.053583 |
| G0:0005579 | membrane attack complex | 1 | 0.0701879 | 0.053583 |
| G0:0005838 | proteasome regulatory particle (sensu | 1 | 0.0798044 | 0.0594429 |
| G0:0030315 | T-tubule | 1 | 0.0798044 | 0.0594429 |
| G0:0035097 | histone methyltransferase complex | 1 | 0.0798044 | 0.0594429 |

| | | | | |
|------------|---------------------------------------|----|-----------|-----------|
| G0:0043205 | fibril | 1 | 0.0798044 | 0.0594429 |
| G0:0005761 | mitochondrial ribosome | 2 | 0.0851958 | 0.0633178 |
| G0:0033180 | proton-transporting V-type ATPase, V1 | 1 | 0.0893214 | 0.0658504 |
| G0:0005852 | eukaryotic translation initiation fac | 1 | 0.0893214 | 0.0658504 |
| G0:0000502 | proteasome complex (sensu Eukaryota) | 2 | 0.0914615 | 0.0670865 |
| G0:0005790 | smooth endoplasmic reticulum | 1 | 0.09874 | 0.0718539 |
| G0:0001673 | male germ cell nucleus | 1 | 0.09874 | 0.0718539 |
| G0:0045334 | clathrin-coated endocytic vesicle | 1 | 0.09874 | 0.0718539 |
| G0:0031201 | SNARE complex | 1 | 0.09874 | 0.0718539 |
| G0:0031092 | platelet alpha granule membrane | 1 | 0.09874 | 0.0718539 |
| G0:0032592 | integral to mitochondrial membrane | 1 | 0.09874 | 0.0718539 |
| G0:0030132 | clathrin coat of coated pit | 1 | 0.09874 | 0.0718539 |
| G0:0005689 | minor (U12-dependent) spliceosome com | 1 | 0.1080613 | 0.0777391 |
| G0:0031594 | neuromuscular junction | 1 | 0.1080613 | 0.0777391 |
| G0:0005583 | fibrillar collagen | 1 | 0.1080613 | 0.0777391 |
| G0:0005744 | mitochondrial inner membrane preseque | 1 | 0.1080613 | 0.0777391 |
| G0:0001750 | photoreceptor outer segment | 1 | 0.1172862 | 0.0836071 |
| G0:0009898 | internal side of plasma membrane | 1 | 0.1172862 | 0.0836071 |
| G0:0042101 | T cell receptor complex | 1 | 0.1172862 | 0.0836071 |
| G0:0000299 | integral to membrane of membrane frac | 1 | 0.1172862 | 0.0836071 |
| G0:0005858 | axonemal dynein complex | 1 | 0.1172862 | 0.0836071 |
| G0:0000795 | synaptonemal complex | 1 | 0.1172862 | 0.0836071 |
| G0:0005833 | hemoglobin complex | 1 | 0.1172862 | 0.0836071 |
| G0:0012505 | endomembrane system | 17 | 0.1235505 | 0.0876252 |
| G0:0031231 | intrinsic to peroxisomal membrane | 1 | 0.1264157 | 0.0892041 |
| G0:0005892 | nicotinic acetylcholine-gated recepto | 1 | 0.1264157 | 0.0892041 |
| G0:0033116 | ER-Golgi intermediate compartment mem | 1 | 0.1443924 | 0.100897 |
| G0:0005791 | rough endoplasmic reticulum | 1 | 0.1532417 | 0.1065473 |
| G0:0005762 | mitochondrial large ribosomal subunit | 1 | 0.1532417 | 0.1065473 |
| G0:0005924 | cell-substrate adherens junction | 2 | 0.1600121 | 0.1110156 |
| G0:0005863 | striated muscle thick filament | 1 | 0.1619994 | 0.1122136 |
| G0:0005753 | proton-transporting ATP synthase comp | 1 | 0.187733 | 0.1282334 |
| G0:0030667 | secretory granule membrane | 1 | 0.187733 | 0.1282334 |
| G0:0017053 | transcriptional repressor complex | 1 | 0.187733 | 0.1282334 |
| G0:0005922 | connexon complex | 1 | 0.1961341 | 0.1333722 |
| G0:0005930 | axoneme | 1 | 0.1961341 | 0.1333722 |
| G0:0043296 | apical junction complex | 2 | 0.1969858 | 0.1336874 |
| G0:0016327 | apicolateral plasma membrane | 2 | 0.2082778 | 0.1410729 |
| G0:0031252 | leading edge | 2 | 0.2082778 | 0.1410729 |
| G0:0030532 | small nuclear ribonucleoprotein compl | 1 | 0.2208198 | 0.1489431 |
| G0:0016591 | DNA-directed RNA polymerase II, holoe | 2 | 0.2234306 | 0.150488 |
| G0:0005903 | brush border | 1 | 0.2368545 | 0.1590524 |
| G0:0005921 | gap junction | 1 | 0.2447477 | 0.1639692 |
| G0:0043234 | protein complex | 23 | 0.2577476 | 0.1719871 |
| G0:0016585 | chromatin remodeling complex | 1 | 0.2602901 | 0.1735043 |
| G0:0043235 | receptor complex | 2 | 0.2654169 | 0.1767165 |
| G0:0030139 | endocytic vesicle | 1 | 0.2755127 | 0.1828258 |
| G0:0016528 | sarcoplasm | 1 | 0.2830061 | 0.1874371 |
| G0:0016023 | cytoplasmic membrane-bound vesicle | 6 | 0.2839861 | 0.1878935 |
| G0:0031966 | mitochondrial membrane | 5 | 0.3635063 | 0.2375852 |
| G0:0016604 | nuclear body | 2 | 0.3785311 | 0.2470927 |
| G0:0005740 | mitochondrial envelope | 5 | 0.4000607 | 0.2602914 |

| | | | | |
|------------|---------------------------------------|-----|-----------|-------------|
| G0:0015935 | small ribosomal subunit | 1 | 0.4528437 | 0.2928265 |
| G0:0005626 | insoluble fraction | 7 | 0.5040288 | 0.3237768 |
| G0:0030017 | sarcomere | 1 | 0.5367045 | 0.3436558 |
| G0:0015630 | microtubule cytoskeleton | 5 | 0.5468422 | 0.3498003 |
| G0:0022626 | cytosolic ribosome | 1 | 0.5509339 | 0.352156 |
| G0:0005774 | vacuolar membrane | 1 | 0.5601767 | 0.3577099 |
| G0:0030016 | myofibril | 1 | 0.5736854 | 0.3660194 |
| G0:0043292 | contractile fiber | 1 | 0.5994713 | 0.3821408 |
| G0:0005815 | microtubule organizing center | 2 | 0.6401151 | 0.4070451 |
| G0:0031012 | extracellular matrix | 3 | 0.6418848 | 0.40807 |
| G0:0030529 | ribonucleoprotein complex | 4 | 0.6483737 | 0.4116886 |
| G0:0012506 | vesicle membrane | 1 | 0.7691875 | 0.4848838 |
| G0:0042598 | vesicular fraction | 1 | 0.8508789 | 0.5348796 |
| G0:0005773 | vacuole | 1 | 0.8826091 | 0.5538822 |
| G0:0031982 | vesicle | 3 | 0.9161592 | 0.5738213 |
| G0:0044431 | Golgi apparatus part | 1 | 0.989168 | 0.615223 |
| G0:0042175 | nuclear envelope-endoplasmic reticulu | 1 | 0.997113 | 0.6155129 |
| G0:0000267 | cell fraction | 1 | 0.9998136 | 0.6155129 |
| G0:0005575 | cellular_component | 125 | 0.9999346 | 0.6155129 |
| G0:0031981 | nuclear lumen | 1 | 0.9999948 | 0.6155129 |
| G0:0044428 | nuclear part | 1 | 0.9999999 | 0.6155129 |
| G0:0043231 | intracellular membrane-bound organell | 7 | | 1 0.6155129 |
| G0:0031224 | intrinsic to membrane | 4 | | 1 0.6155129 |

UNC84A;PTGDS;AKAP6;IL SUN1;PTGDS;AKAP6;IL15RA;MYO6;CERS4;SHISA5;NUP98;MKRN1;PNPLA7;NUI
HK2;MFF;GK;GK3P;MAOB;HK2;MFF;GK;GK;MAOB;AKAP1;ACSL5;ABC6;TMEM173;GPAM;MAOA;MGST1;BCI
SLC4A7;PLB1;SLC14A2;MSLC4A7;PLB1;SLC14A2;MAL2;INADL;MUC20;SHROOM2;ATP6V1B1;SLC22A18;A
TELO2;FANCI;TOP2A;ITG CLK2;FANCI;TOP2A;ITGB3BP;RIF1;NBN;CENPA;SP100;CENPF;FANCD2;CDCA8
COL14A1;COL10A1;COL5A COL14A1;COL10A1;COL5A3;COL24A1;COL11A2;COL1A2;COL4A3;COL11A1;COI
MALL;LYN;EFNB1;CD55;A MALL;LYN;EFNB1;CD55;ADCY3;LAT2;LRRK2;ABCA1;CTTNBP2;SORBS1;SGCA;I
NTRK2;SLC38A1;NF1;DPY NTRK2;SAT1;NF1;DPYSL2;MYH10;SEMA6A;SLC38A1;HTT;LRRTM1;MAPT;MYCBI
THBS4;FN1;VEGFA;SERPI THBS4;FN1;VEGFA;SERPINA1;THBS1;THBS3;HGF;APP;IGF1;IGF1;THBS2
SMARCC1;CHD7;CBX7;CHD SMARCC1;CHD7;CBX7;CHD9;MCM7;NPTXR;CCNL1;MAF;POLA1;CENPF;MEN1;CHI
HNRNPF;PPIL3;SRRM1;SF HNRNPF;PPIL3;SRRM1;SF1;PPIE;GEMIN7;PABPC1;SLU7;HRH1;SNRNP35;SNW
HDAC9;HDAC11;HDAC6;HD HDAC9;HDAC11;HDAC6;HDAC4;RERE;HDAC2;HDAC1;PHF21A;HDAC3;HDAC8
AP1S3;EPS15;DAB2;LDLR AP1S3;EPS15;DAB2;LDLR;MYO6;LRP10;HIP1R;APP;FLJ35024;AP4S1;SORT1
KNTC1;TP53BP1;BUB1;CE KNTC1;TP53BP1;BUB1;CENPA;CLASP2;NDC80;SPC25;ZWINT;NUP85;CENPN;ZV
SERPINF1;CALU;GGH;TFR SERPINF1;CALU;GGH;TFR;MYRIP;PDIA6;BSG;YWHAZ;SLC2A1;RAC1;HPS4;FA
COL7A1;LAMA3;NTN4;SMO COL7A1;LAMA3;NTN4;SMOC1;LAMC2;COL8A1;APLP1;ADAMTS1;SMC3;LAMA1;LA
CDC20;KIAA1009;KIF23;CDC20;KIAA1009;KIF23;MAP2K5;CENPE;MYH10;CLASP2;TTK;SNCG;NUP85;K
WNK4;MAGI3;INADL;SHRO WNK4;MAGI3;INADL;SHROOM2;SYNPO;CLDN1;MPP7;JAM2;TJP1;CLDN4;CLDN12
RPS4Y2;RPL37A;RRBP1;R RPS4Y2;RPL37A;RRBP1;RPL9;SF1;MRPS28;MRPS28;MRPL44;RPL39L;MRPS25
NTRK2;STMN2;MYH10;APB NTRK2;STMN2;MYH10;APBB2;APBB1;LRRTM1;MYO5A;MAPT;RUFY3
LAMA3;LAMA4;LAMA2;LAM LAMA3;LAMA3;LAMA2;LAMA4;LAMB2;LAMA1;LAMB1
LDLRAP1;NOTCH4;MUC20; LDLRAP1;NOTCH3;MUC20;CTTNBP2;MET;AGPAT1;OSCP1;NOTCH4;NMI
XPO7;SNUPN;NUP160;XPO XPO7;SNUPN;NUP160;XPO1;NUP214;RANBP17;NUP98;IPO5;EIF5A;TNPO1;NUI
CTNNB1;ITGB1BP1;FGD6;CTNNB1;ITGB1BP1;FGD6;ARAP3;DBNL;APBB2;APBB1;ALS2;FAP;CDH2
KCNA5;KCNK2;KCNMB1;KC HK2;KCNK2;KCNMB1;KCNMB4;KCNH1;KCNQ3;KCNQ5;KCTD9;KCNMA1;KCN3;KCN
SYNE1;GNAZ;SP140;NPC1 SYNE1;GNAZ;SP140;NPC1;HTATIP2;LBR;DNASE1;NRM;POLA1;SREBF1;CENPF
EXOC6B;EXOC7;EXOC1;EX EXOC6B;EXOC1;EXOC1;EXOC6;EXOC4
FBXL5;FBXL4;BARD1;FBX FBXL5;FBXL4;BARD1;FBXO21;WWP2;RNF144B;FBXO10;WWP1;NEDD4;FBXO25;V
COL10A1;RYR1;SHROOM2;COL10A1;RYR1;SHROOM2;SCIN;MYO6;ARFIP2;NCL;MYH10;CLASP2;DBNL;NEDI
DYNC2LI1;IFT172;TTL7 DYNC2LI1;IFT172;TTL7;ODF2;DYNC2H1;SPAG4;CEP250;SMO;CEP290;BBS5
NTRK2;SHROOM2;DPYSL2;NTRK2;SHROOM2;DPYSL2;MYH10;SOD1;SNCAIP;HGF;MAPK8IP2;UCHL1;SLC1A3
CACNB3;CACNA1I;CACNA2 CACNB3;CACNA1I;CACNA2D1;CACNA1A;CACNA1D;CACNA1B;CACNA1G
APOB;LDLR;VPS53;PRAF2 APOB;LDLR;VPS53;PRAF2;VPS52;TLR3;AP1G2;CD1D;WDR44;STEAP3;ZNRF2;V
HLA-DPB1;HLA-DPB1;HLA HLA-DPB1;HLA-DPB1;HLA-DPB1;HLA-DPB1;HLA-DPA1;HLA-DRB3;HLA-DRB3;I
LDLRAP1;GRIPAP1;CD4;R LDLRAP1;GRIPAP1;CD4;RIN3;KIFC1;RABEP1;ALS2;SLC11A2;SNX27;SORT1
TUBG2;TUBG1;PCM1;LCK;TUBG2;TUBG1;PCM1;LCK;BBS4
PPP2R2C;PPP2R4;PPP2R2 PPP2R2C;PPP2R4;PPP2R2A;PPP2R3A;PPP2R3B;PPP2CB
AP1S3;GPRC5C;IL15RA;D AP1S3;GPRC5C;IL15RA;DYSF;CTTNBP2;AP1G2;WHAMM;ARHGAP21;CLTCL1;CAI
DMD;DES;LAMA2;GNAS;SG DMD;DES;LAMA2;GNAS;SGCA;DTNBP1;KRT8
CPS1;ACADVL;LRPPRC;TO CPS1;ACADVL;LRPPRC;TOP1MT;HADHB;MDP1;PIM1
FN1;NUCB2;PDIA6;RAB24 FN1;NUCB2;PDIA6;RAB24;RGMB;WHAMM;MCFD2;ANPEP
CROCC;TOP2A;CEP250;TU CROCC;TOP2A;CEP250;TUBD1;BBS4
MFAP5;MFAP2;FBN1;MFAP MFAP5;MFAP2;FBN1;MFAP4
SYT9;RAB3A;LRRK2;DMXL SYT9;RAB3A;LRRK2;DMXL2;SYT3;AMPH;DOC2B;SLC40A1
BST1;EPB41L1;EPB41;EP BST1;EPB41L1;EPB41;EPB41L5;EPB41L4B;PTPN3;GFRA2;PRNP;PTPN4
CTNNB1;SMAD3;TFDP2;SI CTNNB1;SMAD3;TFDP2;SIX1;NPAS2;LEF1;E2F6;SMAD1;PBX2;E2F7;ARNTL;RI
LAMA4;AGRN;LAMA2;LAMA LAMA3;AGRN;LAMA2;LAMA4;LAMB2;LAMB2
SGCB;SGCA;SGCD;SGCE SGCB;SGCA;SGCD;SGCE
CTNNB1;SORBS2;NEB;DES CTNNB1;SORBS2;NEB;DES;HOMER1;KRT8
ABCA5;NPC1;SLC9A9;VPS ABCA5;NPC1;SLC9A9;VPS37A;VPS33A;STARD3NL;SLC11A2
HLA-A;HSD17B6;EPS15;Z HLA-A;HSD17B6;EPS15;ZFYVE16;EEA1;ZFYVE20
LRRK2;TGOLN2;NBEA;ATP LRRK2;TGOLN2;NBEA;ATP2C1;SOD3;SLC9A7
KRT18;PCM1;EXOC7;BBS4 KRT18;PCM1;EXOC1;BBS4

CP;MDGA1;EFNA5;RGMB;N CP;MDGA1;EFNA5;RGMB;NTNG2
SYNE1;SYNE2;NUCB2;LRP SYNE1;SYNE2;NUCB2;LRPPRC;NAV3
CDKN1A;PCNA;CCND3;CDK CDKN1A;PCNA;CCND3;CDK2
TUBG2;GTSE1;TUBG1;CLA TUBG2;GTSE1;TUBG1;CLASP2
DMD;SVIL;TRPC1;HOMER1 DMD;SVIL;TRPC1;HOMER1
TUBG2;POLB;CDC2;KIF11 TUBG2;POLB;CDK1;KIF11;CDC16
NTRK2;NF1;ADCY2;DPYSL NTRK2;NF1;ADCY2;DPYSL2;PLK3;ALS2;DBN1
LRP8;CDH13;DLC1;CAV1; LRP8;CDH13;DLC1;CAV1;TGFB2
TOR1AIP1;LBR;NRM;LRPP TOR1AIP1;LBR;NRM;LRPPRC;LEMD2
ENO2;ENO1;ENO3 ENO2;ENO1;ENO3
BCKDHB;BCKDHA;BCKDK;B BCKDHB;BCKDHA;BCKDK;TMEM91
GLB1L2;GLB1L;GLB1 GLB1L2;GLB1L;EBP
KRTAP1-5;KRT18;KRT5;K KRTAP1-5;KRT18;KRT5;KRT7;KRT4;KRT86;KRT3;KRT8
KNTC1;TPX2;CENPF;SMC3 KNTC1;TPX2;CENPF;SMC3;KIF11
MAPRE3;MYH10;MAPRE3;C EBF3;MYH10;MAPRE3;CDK1;AIM1
ELP3;TCEA2;TTF2;NUFIP ELP3;TCEA2;TTF2;NUFIP1
MAGI2;SAMD4A;CYFIP2;I MAGI2;SAMD4A;CYFIP2;ITSN1;DLG4;SH3KBP1
PPARGC1A;POLR2B;POLR2 PPARGC1A;POLR2B;POLR2D;SLC12A8
SMARCC1;SMARCA4;SMARC SMARCC1;SMARCA4;SMARCA2;NCR1
DNM3;SYNPO;MYH10;FBXO DNM3;SYNPO;MYH10;FBXO2
CUL9;ZZEF1;HECTD3;MYC CUL9;ZZEF1;HECTD3;MYCBP2
DPP4;ABCC2;TJP1 DPP4;ABCC2;TJP1
S100A1;AKAP6;MRVI1;SA S100A1;AKAP6;MRVI1;SAR1A;ANK1
NTRK2;DNM3;DLG4;SOS1 NTRK2;DNM3;DLG4;HGF
LPL;APOB;LSR;VLDLR LPL;APOB;LSR;FLJ35024
UNC84A;LBR;LEMD2 SUN1;LBR;LEMD2
RFC4;PCNA;RFC5 RFC4;PCNA;RFC5
MAP3K13;PYCARD;PYDC1 MAP3K13;PYCARD;POP1
NCAPG;SMC2;SMC4 NCAPG;SMC2;SMC4
DYNC2LI1;DYNC2H1;DYNC DYNC2LI1;DYNC2H1;DYNC1I2;DNHD1;DNAI1
SPAG9;HEXB;ATP8B3;CAS SPAG9;HEXB;ATP8B3;CASC5;CLK3
MRPS28;MRPS35;MRPS25; MRPS28;MRPS28;MRPS25;MRPS36
SGOL1;ITGB3BP;CENPA;N SGOL1;ITGB3BP;CENPA;NDC80;CDCA8;CENPN;AIM1
SYTL2;DCT;SLC45A2 SYTL2;DCT;AIM1
RRBP1;ASPH;DERL1;SLC3 RRBP1;ASPH;DERL1;SLC35D1;ASPHD1
MPV17L;HMGCR;ACSL5;PX MPV17L;HMGCR;ACSL5;PXMP2;PEX14
CSGALNACT1;CHSY3;B4GA CSGALNACT1;CHSY3;B4GALNT4
TTLL7;SYNPO;KLHL24 TTLL7;SYNPO;KLHL24
EIF4H;EIF4E;EIF4G2 EIF4H;EIF4E;NAT1
MED22;MED24_HUMAN;MED MED24;MED24;MED12;MED22;CDK8
TOPBP1;LRCH4;SP100;ZB TOPBP1;LRRN1;SP100;ZBTB16
RNF32;CLU RNF32;CLU
COL11A2;COL11A1 COL11A2;COL11A1
COL1A2;COL1A1 COL1A2;COL1A1
LAMC1;LAMB1 LAMB2;LAMB1
XP01;EIF5A XP01;EIF5A
BCL3;NFKB2 BCL3;NFKB2
MSH6;MSH2 MSH6;MSH2
MOCS2;MOCS1 MOCS2;MOCS1
MSH2;MSH3 MSH2;MSH3
SUZ12;EZH2;EZH2 SUZ12;EZH1;EZH2
GALNTL2;CRLD2_HUMAN;T GALNT13;CRISPLD2;TGOLN2;AP1G2;GALNT7;SSPN

| | |
|-----------------------|--|
| INTS6;INTS7;INTS10 | INTS6;INTS7;INTS10 |
| SHROOM2;MYO6;MYO1C | SHROOM2;MYO6;NMI |
| APOB;LDLR;LSR | APOB;LDLR;LSR |
| TP53BP1;NBN;HDAC2;BCL | TP53BP1;NBN;HDAC2;BCL6 |
| AP1S3;NCALD;CLTCL1 | AP1S3;NCALD;CLTCL1 |
| CUL9;CUL4B;CUL4A | CUL9;CUL4B;CUL4A |
| EIF2S1;FXR1;EPM2A | EIF2A;FXR1;EPM2A |
| NTRK2;NUFIP1 | NTRK2;NUFIP1 |
| PFKP;PFKL | PFKP;PFKL |
| APOBEC3G;APOBEC3F | APOBEC3G;APOBEC3F |
| SGOL1;BUB1 | SGOL1;BUB1 |
| COL5A3;COL5A2 | COL5A3;COL5A2 |
| GRIA1;DLG4 | GRIA1;DLG4 |
| RECK;BCL2L11 | RECK;BCL2L11 |
| RIF1;TBP | RIF1;TBP |
| NBN;ATXN1 | NBN;ATXN1 |
| CENPE;CENPF | CENPE;CENPF |
| BUB1;TUBG1 | BUB1;TUBG1 |
| IL6ST;IL6 | IL6ST;HGF |
| IL6ST;OSMR | IL6ST;OSMR |
| COL9A1;COL9A3 | COL9A1;COL9A3 |
| NPM1;DLGAP5 | NPM1;DLGAP5 |
| TOPBP1;TUBG1;LRPPRC;R | TOPBP1;TUBG1;LRPPRC;RGS12 |
| LIMK2;GOLGA2;COG3 | LIMK2;GOLGA2;COG3 |
| PPP3CA;PPP3CB | PPP3CA;PPP3CB |
| EPB41;ANK1 | EPB41;ANK1 |
| KNTC1;CLASP2 | KNTC1;CLASP2 |
| DSN1;NSL1 | DSN1;NSL1 |
| CAMK2D;CAMK2G | CAMK2D;CAMK2G |
| RIF1;TBP | RIF1;TBP |
| LMNB2;PCNA | LAMB2;PCNA |
| TBP;GTF2A2 | TBP;GTF2A2 |
| EIF2S1;EIF2A | EIF2A;EIF2A |
| SMC3;SYCP2 | SMC3;SCP2 |
| IGF1;IGFBP3 | IGF1;IGFBP3 |
| HNRNPF;HNRNPH3;HNRNPD | HNRNPF;HNRNPH3;HNRNPD |
| DMD;SGCA;SSPN | DMD;SGCA;SSPN |
| MYH10;SORBS1;MYO1C | MYH10;SORBS1;NMI |
| CTTNBP2;MET;SPAG4;CAB | CTTNBP2;MET;SPAG4;CABYR |
| NDUFA10;NDUFS7;NDUFV3 | NDUFA10;NDUFS7;NDUFV3;NDUFB2 |
| NTRK2;KCNMA1 | NTRK2;KCNMA1 |
| EGFR;LDLRAP1 | EGFR;LDLRAP1 |
| LDLRAP1;AP1G2 | LDLRAP1;AP1G2 |
| PRKDC;LIG4 | PRKDC;LIG4 |
| PSMB8;TAP2 | PSMB8;TAP2 |
| MYH10;MEN1 | MYH10;MEN1 |
| PIGU;PIGS | GAB1;PIGS |
| TBPL1;TAF1;TBP | TBPL1;TAF1;TBP |
| APOL1;APOM;LIPC | APOL1;APOM;LIPC |
| CADM3_HUMAN;MLLT4;PDZ | CADM3;MLLT4;PDZD2;PTPRU;TLN1;CDC42BPA;TLN2 |
| SHROOM2;LLGL1;SCNN1A | SHROOM2;DLG4;SCNN1A |
| HOXC10;KDM5A | HOXC10;KDM5A |

| | |
|-----------------------|-------------------------------------|
| MYO6;MYL6B | MYO6;MYL6B |
| ATP6VOE2;ATP6VOD1 | ATP6VOE2;ATP6VOD1 |
| POLA1;POLA2 | POLA1;POLA2 |
| CDCA5;SMC3 | CDCA5;SMC3 |
| DYNC1I1;DYNLL1 | DYNC1I1;DLC1 |
| EIF2B4;EIF2S1 | EIF2B4;EIF2A |
| GKN1;SCG5;BRCA2;GARS; | CA11;SCG5;BRCA2;SMAD1;SLC30A8;PCSK5 |
| MCHR1;PCM1;BBS4 | MCHR1;PCM1;BBS4 |
| MYL5;MYL3;MYL6B | MYL5;MYL3;MYL6B |
| FN1;THBS1 | FN1;THBS1 |
| APOB;LDLR | APOB;LDLR |
| CAPZB;ADD2 | CAPZB;ADD2 |
| ATP6V1B1;ATP6VOD1 | ATP6V1B1;ATP6VOD1 |
| BBS5;BBS4 | BBS5;BBS4 |
| DOCK4;MYO1C | DOCK4;NMI |
| MMS19;ERCC3 | MMS19;ERCC3 |
| SRP54;SRP19 | SRP54;SRP19 |
| TELO2;RIF1;SMG6 | CLK2;RIF1;SMG6 |
| LCP1;PALLD;ARHGAP6 | LPL;PALLD;ARHGAP6 |
| RGS7;GNAS;GNAS | RGS7;GNAS;GNAS |
| ROS1;ATP1B1 | ROS1;ATP1B1 |
| RPN2;TUSC3 | RPN2;TUSC3 |
| TNNC1;TNNT3 | TNC;TNNT3 |
| MALL;AP1G1;HIP1R;HIP1 | MALL;AP1G1;HIP1R;HIP1;SORT1 |
| AP1S3;AP3M2;AP1G1 | AP1S3;AP3M2;AP1G1 |
| PGAP1;FM04;PGAP1;ALG9 | BST1;FM04;PGAP1;ALG9;EXT2 |
| OCRL;GALNT2;A4GALT | INPP5F;GALNT2;A4GALT |
| EPB41;SPTBN1 | EPB41;SPTBN1 |
| NGF;PCSK5 | NGF;PCSK5 |
| PKP1;PKP2 | PKP1;PKP2 |
| ICA1;SYN2 | ICA1;SYN2 |
| ABCB6;ABCB9 | ABCB6;ABCB9 |
| COG1;COG3 | COG1;COG3 |
| PLOD1;PLOD3 | PLOD1;PLOD3 |
| PRKAR2B;RAPGEF4 | PRKAR2B;RAPGEF4 |
| CEP290;TUBG1 | CEP290;TUBG1 |
| BBS5;BBS4 | BBS5;BBS4 |
| NOD2;COPS5 | NOD2;COPS5 |
| SHPRH;CENPA;HP1BP3;H2 | SHPRH;CENPA;HP1BP3;H2AFZ |
| RYR1;ALDOA;MYL3 | RYR1;ALDOA;MYL3 |
| PPP4R4;PPM1K;PDP1 | PPP4R4;PPM1K;PDP1 |
| ZNF238;HMGB2;PBRM1;SM | ZNF238;HMGB2;PBRM1;SMC2;HDAC8 |
| CTNNB1;MYO1C | CTNNB1;NMI |
| PTH1R;SLC22A12 | PTH1R;SLC22A12 |
| LPL;LSR | LPL;LSR |
| SCN10A;SCN4B | SCN10A;SCN4B |
| PIK3C2B;FRAP1 | PIK3C2B;MTOR |
| PNPLA2;CAV1 | PNPLA2;CAV1 |
| CTNNB1;LGMN;VCAM1;FZD | CTNNB1;LGMN;VCAM1;FZD6;FZD3 |
| TXNDC2;TSGA10 | TXNDC2;TSGA10 |
| NRCAM;INPP5K;CDH13;MY | NRCAM;INPP5K;CDH13;MYO5A;TSGA10 |
| VCAM1;RUFY3 | VCAM1;RUFY3 |

| | |
|---------------------------|------------------------------------|
| COL14A1 | COL14A1 |
| ITPR1 | ITPR1 |
| COL7A1 | COL7A1 |
| SDHA | SDHA |
| APOB | APOB |
| APOB | APOB |
| TRRAP | TRRAP |
| ECE1 | ECE1 |
| TOP2A | TOP2A |
| TOP2A | TOP2A |
| CD46 | CD46 |
| PAPD4 | PAPD4 |
| ALDOA | ALDOA |
| POLD3 | POLD3 |
| COL12A1 | COL12A1 |
| MCM7 ;MCM7 | MCM7 ;MCM2 |
| EEA1 | EEA1 |
| COL2A1 | COL2A1 |
| GNAS | GNAS |
| COL13A1 | COL13A1 |
| COL8A1 | COL8A1 |
| BRCA2 | BRCA2 |
| PCNA | PCNA |
| BCL3 | BCL3 |
| CNTNAP1 | CNTNAP1 |
| SOD1 | SOD1 |
| POLG2 | POLB |
| AGL | AGL |
| PIK3R1 | PIK3R1 |
| GRM7 | GRM7 |
| KIFAP3 | KIFAP3 |
| SCUBE3 | SCUBE3 |
| ATP6V1H | ATP6V1H |
| LAMA1 | LAMA1 |
| LAMB1 | LAMB1 |
| LAMB1 | LAMB1 |
| GHR | GHR |
| NUFIP1 | NUFIP1 |
| SARM1 | SARM1 |
| SDCBP | SDCBP |
| MYO1C | NMI |
| POLG | MDP1 |
| PGGT1B | PGGT1B |
| SYTL2 ;EEA1 ; SCUBE1 | SYTL2 ;EEA1 ; SCUBE1 |
| RIMS1 ;SNCAIP | RIMS1 ;SNCAIP |
| KIF23 ;KIF11 | KIF23 ;KIF11 |
| LMNA ;LMNB2 ;PKP1 ;PRPH ; | LMNA ;LAMB2 ;PKP1 ;PRPH ;PC ;HACL1 |
| HMGB2 ;HMGB1 ;LIG4 ;TOP3 | HMGB2 ;HMGB1 ;LIG4 ;TOP3B |
| SLC9A9 ;RABEP1 | SLC9A9 ;RABEP1 |
| SHROOM2 ;TJP1 | SHROOM2 ;TJP1 |
| NBN ;ERCC4 | NBN ;RAD1 |
| OCRL ;AP1G2 ;VPS45 | INPP5F ;AP1G2 ;VPS45 |

| | |
|-------------------|-------------------|
| PSMB8;PSMA4 | PSMB8;PSMA4 |
| LOR;DSP | LOR;DSP |
| VCAM1;LIPC | VCAM1;LIPC |
| CTNNB1 | CTNNB1 |
| NTRK2 | NTRK2 |
| SGOL1 | SGOL1 |
| RYR1 | RYR1 |
| APOB | APOB |
| DNMT3A | DNMT3A |
| COL6A1 | COL6A1 |
| DES | DES |
| ECE1 | ECE1 |
| NARF | NARF |
| LRRK2 | LRRK2 |
| BARD1 | BARD1 |
| L2HGDH | L2HGDH |
| TUBG1 | TUBG1 |
| SDHC | SDHC |
| LIG4 | LIG4 |
| SORBS1 | SORBS1 |
| POP1 | POP1 |
| GUCY1B3 | GUCY1B3 |
| NCBP2 | NCBP2 |
| DLG4 | DLG4 |
| PDGFA | PDGFA |
| ABCC4 | ABCC4 |
| GORASP2 | GORASP2 |
| ABCA3 | ABCA3 |
| TAF1A | TAF1A |
| MAPT | MAPT |
| PRKAG2 | PRKAG2 |
| BBS4 | BBS4 |
| FASN | FASN |
| HDAC2;SMARCA4 | HDAC2;SMARCA4 |
| AP1S3;AP1G2;AP4S1 | AP1S3;AP1G2;AP4S1 |
| LGMN;SQSTM1;RAB24 | LGMN;SQSTM1;RAB24 |
| MSH6;TIMELESS | MSH6;TIMELESS |
| PPP2R4;AKAP6 | PPP2R4;AKAP6 |
| NNT;OXA1L;COX7A2L | NNT;OXA1L;COX7A2L |
| CTNNB1 | CTNNB1 |
| LCP1 | LPL |
| ABCC9 | ABCC9 |
| GPD2 | GPD2 |
| ANLN | ANLN |
| ODF1 | ODF2 |
| PNPLA2 | PNPLA2 |
| NRM | NRM |
| DSCR3 | DSCR3 |
| EXOSC10 | EXOSC10 |
| PHKA2 | PHKA2 |
| DBN1 | DBN1 |
| ATXN1 | ATXN1 |

| | |
|--------------------|--------------------|
| TGFBR2 | TGFBR2 |
| CPOX;AK2 | CPOX;AK2 |
| CTNNB1 | CTNNB1 |
| CTNNB1 | CTNNB1 |
| APOB | APOB |
| ACTN1 | ACTN1 |
| NFYC | NFYC |
| NBN | NBN |
| MCM2;MCM2 | CCNL1;MCM2 |
| UBE2V1 | UBE2V1 |
| ERCC4 | RAD1 |
| TPM2 | TPM2 |
| BBS4 | BBS4 |
| EPB41;DLG4 | EPB41;DLG4 |
| CTNNB1 | CTNNB1 |
| CROCC | CROCC |
| RYR1 | RYR1 |
| CALU | CALU |
| HSD17B4 | DBP |
| ADAM9 | ADAM9 |
| TRIM66 | TRIM66 |
| ABCA1 | ABCA1 |
| ORC2L | ORC2 |
| CLN5 | NCL |
| HPS4 | HPS4 |
| SMG6 | SMG6 |
| RPL39L;RPL10 | RPL39L;NOV |
| TRRAP | TRRAP |
| CHAF1B;CHAF1B | CHAF1B;MPP7 |
| COL4A3 | COL4A3 |
| MYL3 | MYL3 |
| CEP290 | CEP290 |
| POP1 | POP1 |
| UTP14A | UTP14A |
| RPA3 | RPA3 |
| SUZ12 | SUZ12 |
| ACTR1B | ACTR1B |
| GTF3C1 | GTF3C1 |
| TIMM9 | TIMM9 |
| SHROOM3;CDH2;SDCBP | SHROOM3;CDH2;SDCBP |
| ARPC4;ARPC4 | TLL3;ARPC4 |
| TAPBP | TAPBP |
| ATP5A1 | ATP5A1 |
| BCOR | BCOR |
| POLR3A | POLR3A |
| MTA1 | MTA1 |
| HTT | HTT |
| SERINC5 | SERINC5 |
| C5 | C5 |
| PSMD1;PSMD1 | RPN2;PSMD1 |
| CAMK2D | CAMK2D |
| MEN1 | MEN1 |

| | |
|-----------------------|--|
| SLC1A3 | SLC1A3 |
| MRPL37;DAP3 | MRPL2;DAP3 |
| ATP6V1B1 | ATP6V1B1 |
| COPS5 | COPS5 |
| PSMD1;PSMD1;PSMD11 | RPN2;PSMD1;PSMD11 |
| RYR1 | RYR1 |
| TOPBP1 | TOPBP1 |
| MYO6 | MYO6 |
| VTI1A | VTI1A |
| ITGB3 | ITGB3 |
| OXA1L | OXA1L |
| CLTCL1 | CLTCL1 |
| DHX15 | DHX15 |
| MYH10 | MYH10 |
| TNXB | TNXB |
| TIMM9 | TIMM9 |
| MYRIP | MYRIP |
| LOR | LOR |
| CD4 | CD4 |
| ATP8B3 | ATP8B3 |
| DNALI1 | DNALI1 |
| STAG3 | STAG3 |
| CYB5R3 | CYB5R3 |
| LAP4A_HUMAN;SYTL2;SLC | LAPTM4A;SYTL2;SLC2A12;PIP5K1A;MAL2;ATP6V1B1;NBEA;DOCK9;DOCK4;ITC |
| SLC22A5 | SLC22A5 |
| CHRNE | CHRNE |
| ERGI3_HUMAN | ERGIC3 |
| PTGDS | PTGDS |
| MRPL52 | MRPL52 |
| SORBS1;NEXN | SORBS1;NEXN |
| MYH7B;MYH7B | MYH14;MYH7B |
| ATP5A1 | ATP5A1 |
| ICA1 | ICA1 |
| ZBTB16 | ZBTB16 |
| GJA5 | GJA5 |
| DNALI1 | DNALI1 |
| CTNNB1;SHROOM3 | CTNNB1;SHROOM3 |
| FZD6;NEDD4 | FZD6;NEDD4 |
| CDC42BPG;CDC42BPA | CDC42BPG;CDC42BPA |
| SLU7 | SLU7 |
| MYO6;ELP3 | MYO6;ELP3 |
| MYO1C | NMI |
| PANX2 | PANX2 |
| CFB;S100A1;PTGS2;TUBG | CFB;S100A1;PTGS2;TUBG2;TUBA4A;SSX2IP;EPB41;STRA6;TRIP12;UCHL5;AI |
| ESR1 | ESR1 |
| SMAD3;BMPR1B | SMAD3;BMPR1B |
| EGFR | EGFR |
| DTNBP1 | DTNBP1 |
| MALL;TFRC;DGKD;BDNF;H | MALL;TFRC;DGKD;BDNF;HTT;SORT1 |
| LETM2;S27A3_HUMAN;OGD | LETM2;SLC27A3;OGDH;BCL2L13;PNPLA7 |
| HR;GEMIN7 | HR;GEMIN7 |
| MAOB;BNIP3L;ABCB6;HAD | MAOB;BNIP3L;ABCB6;HADHB;ADAP2 |

| | |
|-----------------------|--|
| DAP3 | DAP3 |
| PDE4B;PDE4D;MDM2;DES | PDE4B;PDE4D;MDM2;DES;LOR;PDE3A;CCDC88C |
| TRPC1 | TRPC1 |
| LYST;MARK1;CCNB2;PKNO | LYST;MARK1;CCNB2;PKNOX2;MYCBP2 |
| NUFIP1 | NUFIP1 |
| SBF2 | SBF2 |
| TMOD1 | TMOD1 |
| DES | DES |
| KRT18;EXOC7 | KRT18;EXOC1 |
| THBS1;CD44;SOD1 | THBS1;CD44;SOD1 |
| TROVE2;HEATR1;HNRPLL | TROVE2;HEATR1;HNRPLL;PCBP2 |
| NCK1 | NCK1 |
| ALS2 | ALS2 |
| DNPEP | DNPEP |
| ECE1;GNAS;NOD2 | ECE1;GNAS;NOD2 |
| AP1G1 | AP1G1 |
| NPLOC4 | NPLOC4 |
| PDE7A | PDE7A |
| PFKFB3;LPP;KDM5D;TRAF | PFKFB3;LPP;KDM5D;TRAF3IP2;C10orf116;KRTAP1-5;NTN4;PIP5K1A;GRIPAI |
| NARF | NARF |
| GLIS3 | GLIS3 |
| MMP3;S100A1;LGMN;SEMA | MMP3;S100A1;LGMN;SEMA5A;TLN1;USP40;ATG12 |
| APOL1;GNAS;TIRAP;SARM | APOL1;GNAS;TIRAP;SARM1 |

LA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;GLT8D1;LOX
LA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;GLT8D1;SLC4A8;KIAA1244;MCTP2;CA12;CHST1;
ROVE2;ARHGAP19;LPP;KDM5D;NRG1;SERPINA1;ZIC1;LMNA;CDKN1A;INCA1;PTGS2;STAT1;S100B;RCAN1;E
244;CA12;NNMT;GSTM1;PLA2G4A;S100A1;ADM;TROVE2;ALOX15B;TPD52;EDN1;LPP;PFKP;ANK2;RGS5;PRK
1;BST1;HLA-DPB1;LPP;CNTNAP3;PRKCZ;NRG1;HK2;NFASC;SLC4A7;ENO2;LMNA;RASGRF2;TREM1;EGFR;HL
ADAMTSL1;ADM;CHI3L1;EDN1;TFPI2;IL32;COL14A1;CNTNAP3;NRG1;C3;MASP1;COL7A1;TNFRSF11B;SERP
H3A1;CDKN1A;PDCD11;ITGB1BP1;AK5;LDLRAP1;SMAD3;EPHX2;DCT;CACNB3;ACSS2;AS3MT;APOBEC3G;STA
BEC3G;GPRC5C;SERPINF1;P4HA1;MFF;LETM2;NDUFA10;PDK1;CLK1;SLC27A3;RPS6KA6;GPD2;TBL2;HES1;
CRL1;NRCAM;HLA-B;HLA-B;HLA-B;HHIP;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;NOTCH3;SLC02A1;SLC8A1;D
S2;EGFR;ERP27;HPD;ALDH3A2;SAR1B;ERAP1;P4HA1;EIF2AK3;APOB;SEZ6L2;SGPP2;GRIA1;GPER;P4HTM;
CR17;ST6GAL2;ST3GAL6;HPD;ST3GAL4;SAR1B;CD44;PIP5K1A;SLC9A8;CDKL3;SYNE1;CALU;LYN;MGAT4B;
SOX9;MDM2;LRCH2;RPS6KA6;FGF18;ACIN1;FCGR2A;INTS6;SIX1;CSTF2;PYGL;MUC4;ZFX;PPP2R4;FRMD7;
-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;
;LGALS8;EGFR;CHI3L2;HYAL1;NOTCH3;CXCL2;VCAM1;ORM1;TNFSF15;SERPINF1;LPL;TGFA;AKR1B1;MICA
9;KDM5D;HSD17B6;ZIC1;RASGRF2;EGFR;PDCD11;AKR1C3;ARHGAP29;TRIM16;ZNF365;ZNF395;SMAD3;ZNF
;STAG2;MYO15A;SORBS3;SYNE2;EPB41L1;AFAP1;INTS6;CALD1;PALLD;DMD;DES;TNS1;DNM3;FRMD7;ACTN
3;SEZ6L2;SGPP2;GRIA1;GPER;P4HTM;ERAP2;CYP39A1;RRBP1;MGAT1;PIGN;CYP2R1;CYP26A1;ITPR2;CPS
INA1;ADAMTSL3;FBN2;SPON1;ECM1;VIT;COL6A1;PAPLN;FBLN7;PODN;MFAP5;MUC4;COL22A1;CILP2;MMP2
ROS1;GRIA1;ABCC1;SLC16A4;STMN2;ECE1;ATP6V1B1;NT5E;CD68;ADCY3;HMOX1;BIRC6;MGAT1;SORD;ITG
RBS3;SSX2IP;INADL;TNS1;DSG3;EPB41L5;ARHGAP26;ANKS1B;HOMER2;TNS3;SHC4;APBB1IP;DMXL2;ZNR
KIF20A;SP140;TOP2A;PRKDC;RFC4;ORC1;CDKN2A;POLD3;TCEB1;TP53BP1;TAF1;KIF23;MCM7;ATXN3;NBN
SK2;STMN2;PYGL;GK;CD55;GPX3;PPP2R4;LIMK2;CXCL13;STAC;MED24;SORD;PFKL;DARS;CTTNBP2;HMGCS
E;ABCA5;GALNT12;MGAT5;CHST6;MGAT1;IL15RA;LPCAT1;GALNTL1;ENTPD6;TAPBP;TMC01;RND3;GALNT13
MAP1B;ODF2;DYNC2H1;EML2;KIF23;DYNC1I2;MAP3K11;CENPE;EBF3;STAU2;KIF3A;MPP1;RASSF5;RASSF5
NDRG2;SFI1;ODF2;MCPH1;PRKAR2B;MAP3K11;CDC14A;PARP3;OFD1;CEP290;MPP1;BRCA2;CLASP2;CEP72;
;SHC4;DMXL2;ZNR1;UTRN;GRIA3;SYNPO;ICA1;CYFIP2;UNC13B;ITSN1;CRIPT;DLG4;SHANK2;NLGN1;GAB
N;FGFR2;DMD;ADAM9;ROBO2;AGRN;DPP4;MMP16;PTPRQ;AAMP;CEP290;BCAM;PPF1A4;DLG3;MPP2;TRAK2;N
5;ATP5A1;IDH3G;MADD;MADD;BCKDHA;MIPEP;OGDH;GLUD1;MCCC2;KIAA1967;SOD1;PCCA;PDK3;AGT;BCKD
NC1I1;AP1G1;LRPPRC;DNAJB6;ANP32A;NRBP1;CALCOCO2;CLU;LAMB1;NEDD4;GALNT3;GALNT1;EPM2A;CAV
TFRC;NTRK1;NPC1;VPS53;ZNR1;PRAF2;FPR1;VPS52;TLR3;AP1G2;VPS37A;VPS33A;OCIAD1;STARD3NL;S
1;ACAT1;TAPBP;ER01L;CYP51A1;FMO4;OAS1;ACSL5;CYP46A1;CYP2C8;H6PD;PNPLA7;OAS3;CERS5;EBP;P
;TSPAN8;NAAA;CTSL1;NAT6;CTSH;ARSB;HEXA;EPDR1;MANBA;HPS4;EBP;NAGA;HYAL3;TIAL1;VPS45;CTSK
RAT;ACADVL;TK2;SLC25A27;NDUFV3;SQRLD;SFXN5;CHDH;ETFDH;HADHB;PC;SLC25A12;HMGCL;SLC25A37;
NC;TP63;TLN1;TNS4;MDC1;TLN2;FHL2;MYO5A;USP40;DLC1
BP1;IFT74;IL15RA;DYSF;DMXL2;ZNR1;MAPKAP1;ARRB2;ICA1;SREBF1;ATM;SOD1;TLR1;ADAMTS1;AP1G2
YNPO;DLG4;SHANK2;GRM7;NLGN1;GABBR1;DLG2;SSPN;DAP3;HOMER1;CHRNE;KCNMA1;CLSTN3
;CDH13;MFI2;PRNP;LYPD6B;NCAM1;LY6H;HYAL3;CEACAM8;EFNA1;NTM;CD109;ULBP1
ERHL2;AGT;AMACR;SLC22A5;DAO;DAO;PIPOX;HACL1;PXMP2;PEX14;SCP2
;H6PD;CES2;CES2;PDIA5;SUMF2;DNAJC10;TAP2
A;MAP2;CLIP2;KIF18B;KIF17;KIF13A;KIF1C1;MAPT;ATG4C;MAP4;EML1
;MYOT;SMTN;SVIL;AVIL;TWF1;FLNA;LSP1;AMPH;TLN2;PKNOX2;KLHL2;CASK;STK38L;TRIOBP
SLC36A1;HGSNAT;SLC11A2;ZNR2;SORT1
AC2;PCSK7;ST8SIA1;ENTPD4;ST3GAL5;A4GALT;ST6GALNAC5
;ATP6AP2;ITGAE;KCNMA1;GSR;FAS;TGFB2
TGA7;ITGB5
;MYO5A;ALS2;TRPM7
OC1;PPIG;SRP54;RBM39;METTL3;PRPF18;RFWD2
L28;SMC3;NUFIP1;ATXN1
A5;TRPC1;STK39;SLC2A1;SLC39A5;MEGF10;ANK1;PTH1R;TJP1;LST1;SLC7A8;ATP1B1;ENPP1
NA1A;APBB1IP;SPRY4;SH3RF1;SYNPO;MPP1;GNAS;THEM4;SSH1;ITSN1;CRIPT;KLHL24;ARHGAP24;RAPH1;
FILIP1L;MYO1G;MYO5A;MYH7B;CGNL1

P85;TAGLN2;CERS5;EPC1;TSGA10;TPR;PRICKLE1;SORT1
L2L11;CYB5R3;CHKB;MFN1
ABCC2;CTTNBP2;SHROOM3;SLC4A5;STK39;SLC22A12;KCNMA1;SCNN1A
8;SUV420H1;PRDM6;SMC3;TOP1MT;SMCHD1;SMC4;HP1BP3;HNRNPD;CENPN;SUPT16H;PRDM7;H2AFZ;BANF1;
L2A1;COL1A1;COL5A2;COL18A1
PAG1;TRPC1;LCK;PRNP
P2;UCHL1;DTNBP1;SLC6A1

D3;UBE2B;HMG2;MCM2;MCM2;CHD5;CHD5;NEDD4;CHD1;CHD6
1;TTF2;AQR;EIF4A3;DHX38;RHEB;PRPF18

WILCH
AS;SDCBP;PDCD6IP
AMB1;FBN1
IFC1;FAM82A1;CDC6;AIM1
2;CGNL1
;MRPL52;MRPS36;MRPL2;MRPL2;GCN1L1;DAP3;NOV;MRPS5

P85;TPR

NJ5;KCNJ6
;BNIP3L;PARP1;PTGER3;LEMD2;ANKLE2;RAC2

WDSUB1
D4
;DNAI1;CABYR
3

VPS45;SORT1
HLA-DRB3

DPS2;SH3KBP1;STXBP5

BL1

SN1;NRBP1;HIP1R;PITPNM3;SLC11A2;FAAH;BCL2L11;HIP1

POM;CEP250;PRPSAP1;TUBD1;MEN1;SOD1;CDCA8;TRPC1;MGP;OXA1L;PEX14;ALS2;UBE3C

P1;RASSF4;DONSON;TBL2;MTMR1;AUTS2;PART1;FMN2;LRRFIP2;BAIAP2L1;INADL;TNIK;SMA5;S100A13;R

IL2; VEGFA; SLC4A8; KIAA1244; MCTP2; CHST1; TBC1D8; MOXD1; CSGALNACT1; BST1; AP1S3; HLA-DPB1; HLA-DI
PLA2G4A; MOXD1; CSGALNACT1; BST1; HLA-DPB1; HLA-DPB1; HLA-DPB1; HLA-DPB1; ITGB4; CNTNAP3; ITPR1; I
GFR; PDCD11; TBX20; IGF2BP1; S100A4; NDRG1; YY1AP1; ZNF395; NOTCH3; NOTCH3; DDX54; HIPK3; SMAD3; ZNI
CZ; HK2; HK2; GSTT1; ALDH3A1; ZIC1; ENO2; LDB3; LMNA; CDKN1A; PDE4D; RASGRF2; PTGS2; LGALS8; STAT1; S
A-B; PVRL3; SEMA6D; HHIP; GPR126; NRG2; IL1RL1; HYAL1; CRIM1; NDRG1; LSAMP; SLC47A1; HLA-C; SLC2A5; I
INA1; TREM1; ADAMTSL3; EGFR; HHIP; LOXL3; NRG2; AGR2; IL1RL1; HYAL1; CRIM1; PSG5; HLA-C; THBS1; LRP8
RD5; ARFIP1; ERAP1; LPL; MDM2; PDK1; AKR1B1; TKT; BTRC; ACIN1; RPL37A; UBE2C; ATG4B; GK; GK; PRKAA2; CI
DBP; GK; GK; GK; PPF1BP2; MAOB; LIMK2; BCKDHB; AKAP1; AGPAT5; SLC25A10; ACSS1; FAM110B; ORC1; C1QTNF
DR2; CDH4; TNFSF15; GPRC5C; CD44; RYR1; NLGN4X; PDGFRA; PTPRS; P2RY6; TKT; HLA-DPA1; EFN1; MICA; HLA
PIK3C2B; NUCB2; GNAZ; ERAP2; CYP39A1; P4HA2; SIL1; RPN2; HMOX1; OLFM1; RRB1; MGAT1; NPC1; PIGN; POFI
GPER; GOLGA1; LARGE; KIF20A; ST3GAL1; NUCB2; CXCL14; GALNT2; ABCA5; GLCCI1; ECE1; GALNT12; MGAT5; CI
ACTN1; GLCCI1; MEIS2; TOP2A; HMOX1; CDKN2A; LSR; RBPJ; PDK2; RPL9; MYBL1; TNS3; PTGR2; TAF1; KIAA090
HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA-B; HLA
; FGF18; COL1A2; HDGF; PCSK2; DBP; CHIT1; GPX3; NUCB2; CXCL14; ADAM9; CXCL13; SFRP5; APOL1; HMOX1; SOI
238; KSR1; BCR; ZNF529; GARNL3; ZNF514; PSD3; SAR1B; RPS4Y2; CLK2; UBR5; MDM2; INPP5F; NF1A; ARHGAP20
1; FRMD4A; ENC1; SHROOM2; DCTN4; ELMOD3; FNBP1; SCIN; TTLL3; EPB41L5; ARHGAP26; UACA; PLEKHH2; UBR4
1; ACAT1; SLC37A4; IL15RA; LPCAT1; HHAT; SPTLC3; TAPBP; ER01L; HSD11B1; CYP51A1; TMC01; CREB3L2; UBI
8; CTHRC1; AGRN; COL12A1; FGF1; DCN; MMP16; ADAMTS17; MMP24; CHAD; ADAMTS9; NPNT; MMP11; ADAMTS16; EI
B3BP; ZFP106; SAT1; ABCA4; ABCC2; LRRK2; ABCA1; CTTNBP2; EEA1; SEMA4F; MET; ER01L; UTRN; CCNB2; MPP1
1; UTRN; GRIA3; PKP1; SYNPO; ICA1; PARVB; NPHP1; CYFIP2; SORBS1; UNC13B; ITSN1; CRIPT; SHROOM3; DLG4
1; MYO6; TBP; MET; GEMIN7; CCNL1; WEE1; XPO1; MPP1; ORC2; ZNF638; GTF2A2; BRCA2; POLA1; PCNA; ORC4; RAD
1; SPHK1; WISP3; MAP4K2; MEN1; PKIG; PDE4A; MED22; AGT; NAGK; TNFSF13B; FLT3LG; HPRT1; FBLN5; SMAD1; (C
); GALNT13; ICA1; GBF1; GBF1; IL17RD; ST6GALNAC2; MAP4K2; SREBF1; BSG; AP1G2; GALNT7; GALNT7; ZDHHC3
1; NICN1; TUBD1; MAPRE3; SHROOM3; MAPRE2; NUSAP1; NAV1; DYNC1I1; KIF21A; LRRC49; NIN; MAP2; DNMI; CLII
MED12; FLI1; CDK5RAP2; CEP192; CEP120; NIN; CASP8; PNPLA7; ACTR1B; PCNT; TACC2; CEP70; SNCG; SDCCAG
B1; DNMBP; DLG2; APBB2; SYT3; SYN2; APBB1; AMPH; SSPN; TLN2; DAP3; HOMER1; CHRNE; EGFLAM; CAMK2A; CAI
OD2; PRLR; STRC; PDGFA; CX3CL1; SCUBE3; DLG2; LRP4; GHR; APP; AR; GPM6A; LRRTM1; NOTCH4; HBEGF; SLC1A
K; NR3C1; EARS2; TMEM91; DMGDH; ACO2; CARS2; PC; PPM1K; HMGCL; OXCT1; PDP1; DARS2; PDK4; ACADM; SARDH
1; SORT1
SYT3; CD1D; ZFYVE20; WDR44; MIB2; GAPVD1; STEAP3; SLA; ZNRF2; VPS45
PTGS1; FAAH; MGST1; CHKB; SORT1
; USP5; ARSD
EXOG; NDUFB2; SLC25A36; PDK4; UCP2; MDP1; SLC25A14; MGST1; CYB5R3; SLC25A16

; RIN3; EPN2; AP1G1; SYT3; PRSS16; HIP1R; AMPH; WHAMM; SLC30A8; ARHGAP21; CLTCL1; CADPS2; SH3KBP1; S'

CA9; NRBP1; FERMT1; PIP5KL1; MAPT; PSTPIP1; SH3PXD2A; SLC1A3; ARPC4

SMG6;AIM1;HMGB3;RNF40

RCAN2;AGPAT5;TARSL2;MAP3K1;TP53I3;PFKFB4;SH3TC1;WBSCR22;BIRC6;ARHGAP26;PLEKHA4;ALS2CR12

PB1;HLA-DPB1;SYTL2;ITGB4;ITPR1;NRG1;HK2;HSD17B6;KCNK2;SLC2A9;WBSCR17;ITGA3;PDE4D;PTGS2;NRG1;NRG1;HK2;KCNK2;SLC2A9;WBSCR17;NFASC;ITGA3;SLC4A7;TREM1;EGFR;ST6GAL2;HLA-B;HLA-B;HLF238;SMG5;SUN1;ID2;TOR1AIP1;ZNF529;KHDRBS3;ACSS2;DCUN1D4;APOBEC3G;TRIB2;ZNF514;SGOL1;MA100B;RCAN1;EGFR;PRDX2;SEMA6D;HHIP;ABLIM1;AKR1C3;ITGB1BP1;AGR2;AK5;SYNJ1;IL1RL1;IGF2BP1;PLB1;NOTCH3;NOTCH3;SMAD3;SLC8A1;LRP8;CDH4;TNFSF15;ANO1;MAGI3;CNTN3;PSD3;GPRC5C;CD44;SLC;CXCL2;FBN2;CHRDL1;ST3GAL4;ORM1;TNFSF15;PLAT;LAMA3;LAMA3;COL10A1;SPON1;NTN4;SERPINF1;ERHAF1B;PIK3C2B;CSNK1A1;NAMPT;EPS15;NUCB2;RGS3;GSN;AGPAT5;XDH;MAP1B;MAP3K1;RPN2;DSG3;ORC13;AASS;PDK2;NDUFS7;CPS1;CA5B;ACAT1;NARS2;GFM1;OAT;PRKAR2B;ADCK3;ECHDC2;MRPS28;MRPS28;ACA-H;HLA-H;TNFRSF9;CORIN;IL17RA;TNFRSF14;JAG1;GPER;ABCC1;CD81;BDKRB2;DDR1;SLC16A4;LAPTM5UT2;PDZD2;CYP2R1;CYP26A1;PLOD1;ITPR2;CPS1;ACAT1;SUMF1;LAMB2;LAMB2;SLC37A4;IL15RA;LPCAT1HST6;PTGDS;LSR;MGAT1;BEND5;MED15;VPS53;IL15RA;MSLN;PRKAR2B;LPCAT1;NBN;GALNTL1;ENTPD6;MY7;ESR1;NBN;HMGB2;RGS7;IDH3G;ELP3;LEF1;MPP1;HUWE1;HMGB1;NCL;POLA1;DLG3;CASP1;ZBTB16;GPM6A-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HLA-C;HRD;CHRD;CXCL16;FGF1;TNFAIP2;COL25A1;GPI;FHL1;ANGPTL1;AGPAT1;SCUBE1;SCRG1;PLA2G2A;RNPEP;0;ZNF610;EWSR1;PREX2;ZNF765;HERC3;ZNF248;KAT7;C12orf51;RPL37A;ZBTB20;ZNF362;HECW2;RASL1;EPB41L4B;ADD2;APBB1IP;ALDOC;ELMO2;MYO10;UTRN;SGCB;SPAG4;UBXN11;PDLIM7;PARVB;DPYSL2;FGDE2V1;CERS4;TMX3;GAB1;SREBF1;SHISA5;LCTL;ERLIN2;HSD17B7;CD4;PIGG;HMGCR;KDELR3;ACSL5;CYP4LN;ADAMTS6;MFAP2;COL9A1;TNXB;LEPRE1;VCAN;WNT9B;TNC;KAZALD1;EFEMP1;FBLN2;MMP7;LGALS3;COL;MAP3K13;SPHK1;GNAS;GBAS;APLP1;MPP2;PDE4A;AKAP13;SLC12A2;SLC38A1;SLC4A2;NET1;DLG2;FGFR1;CLDN1;SHANK2;NOX4;ARHGAP24;MPP7;NLGN1;GABBR1;DNMBP;JAM2;DLG2;SYT3;SYN2;AMPH;TNS4;SSPN;1;ATM;NCBP2;NPM1;POLE;POLA2;POLB;PPIG;CDK1;MPP7;NUP98;XPC;MCM2;MCM2;RPA3;GMNN;TDG;SMAD1CALCOCO2;PC;PDE3A;NSMAF;HTT;SCP2;ACP1;SOD3;PTPN12;FAS;FBLN1;ANPEP;ASNS;GBP3;COG1;SLC35B3;GLG1;MAN2A2;GORASP2;GCC2;ATP2C1;XYLT2;ARHGAP21;EXT2;ST8SIA1;LST1;CLSP2;KIF18B;KIF17;CKAP2;KIF13A;KIFC1;MAPT;CEP170;DLC1;DNAI1;FAM82A1;MAP4;SARM1;EML1;PBXIP8;KIFC1;MYO5A;EVI5;ALS2;RNF19A;RANBP1;ESPL1;CDC16DPS2;SH3KBP1;CDH2;STXBP5;ZNRF23;ENPP1;SORT1

TXBP5;ENTPD4;HIP1

;AMPD2;PHIP;TRIP12;PDE5A;DPH5;ORA0V1;EBF3;RGS7;RALGDS;FN3K;C9orf114;MAPKAP1;OFD1;CUL4B;

FHL1;FSD1L;PHF3;RNF6;FAM53B;ADC;SOCS7;MRPL44;NAAA;STRN;DLG3;DOCK9;TNXB;NME6;SPSB2;APOBI

HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;ST3GAL6;C
B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;HLA-B;ST3GAL6;PVRL3;SEMA6D;CDON;GPR126;NRG2;IL1RL
ND2;CDKL3;UPRT;SOX9;RPS6KA1;MDM2;DONSON;DNMT3A;RNF14;SYNE1;CLK1;CLK1;USP48;MAML3;HDAC9;
SMG5;SUN1;ID2;RBMS3;KSR1;TRIM16L;SLC2A12;KHDRBS3;ACSS2;AS3MT;APOBEC3G;TRIB2;ANO1;STAP2;
LC47A2;MALL;HLA-DPA1;LRCH2;LYN;MICA;PON2;HDAC11;HLA-H;HLA-H;ENTPD3;CORIN;FCGR2A;COL1A2;
L6A1;PSG9;PSG9;RNASET2;PON2;FGF18;PAPLN;COL1A2;FBLN7;JAG1;SERPINE2;PODN;GLIPR1L2;DBP;GG
1;PSMB8;PFKL;ZFP36L1;RRM2;TRIP12;CTTNBP2;MAPK8;EEA1;FANCC;RALGDS;PPARG;HMGCS1;EGLN1;UCH
;GBF1;DPYSL2;MIPEP;SDHC;STXBP1;SLC25A42;BCAM;ORC2;SLC25A22;ADC;GBAS;OGDH;CRAT;GLUD1;MRP
4;CD46;NTRK1;ODZ3;NPC1;FZD6;EVI2B;MCHR1;CLCNKB;SLC6A3;SYNGR3;ABCA4;PTPRF;ABCC2;PILRB;ST
1;CYP51A1;TMC01;PDIA6;CREB3L2;AGPAT1;FMO4;UBE2V1;NCL;RAB24;CERS4;CRAT;TMX3;GAB1;SREBF1;
RD;FGD6;HERC1;MGAT4A;NCL;RAB24;ST6GALNAC2;TGOLN2;MAP4K2;CLASP2;SREBF1;NMT2;HMGXB4;UNC13
1;PARP1;NFIB;PBX1;NR3C1;NOL8;CFI;HMG20A;STAT4;ETV4;OXR1;ZMYM3;COPS5;NKRF;STX17;USP28;SN

FBP2;FLT3LG;HGF;CDH13;CPXM1;CLU;GHR;EGFL7;AR;AR;ATRN;NOTCH4;AMY2A;SEMA3C;LIF;HBEGF;SOD3
TRIM59;NFYC;BIRC6;ARHGAP26;PLXND1;TRIM66;GNA01;ZBTB46;ZNF596;ZNF792;ZNF33B;ZNF554;GNL2;
RAP2;TP63;NAV1;CCL28;ARHGAP24;TMOD2;LRPPRC;LRRC49;CASP8;TLN1;ITIH4;MAP2;DNM1;DNMBP;RAPH
;INSIG2;ABCB9;PIGW;ERO1LB;ERGIC3;PIGL;ERLIN1;PIP4K2B;SLC35D1;FDFT1;RHBDF2;LMF2;XYLT2;LR
P;LGALS3BP;FBLN1;OMD;DPT;MFAP4;MMP19;ECM2;TIMP4
R1;RAPGEF4;LMOD1;HPS4;SLC4A3;MTMR7;GALNT3;LST1;FLJ35024;SLC6A9;DLC1;TPST1;FAAH;NOV;SLC2
;SH3KBP1;DSP;SDCBP;CLDN4;STXBP5;CLDN12;ZNRF2;CGNL1
;PRKAG2;POLR2D;SMARCA2;SUPT16H;TPR;CDC6;METTL3;RFC5;CTDP1;ATXN1;CASP3;CDC16

T6GALNAC5

EC3B;MAPRE3;FANCD2;NME5;RIN3;AKAP13;PIK3R4;COL4A3BP;MOV10;MAP4K4;ZMYM2;LYPLAL1;TMEM106A

\;NUB1;RARB;S100A2;NET1;CAMK2G;MKRN1;KDM4C;LRP10;ABCC4;RAB9B;PRSS16;ANK3;EHMT2;CD320;LRI

HLA-C; SLC39A8; SUN1; SLC02A1; FAT3; DDR2; VCAM1; TOR1AIP1; KSR1; ST3GAL4; DCT; SLC2A12; SYT9; SDHA; OTCH3; SUN1; FAT3; VCAM1; TOR1AIP1; ST3GAL4; DCT; SLC2A12; SYT9; ILDR2; ALDH3A2; TNFRSF19; MFSD6; ANA; SORBS2; AUTS2; TRRAP; TFDP2; ZNF765; SIK1; SORBS3; SYNE2; HDGF; ZNF248; TBPL1; KAT7; SECISBP2; TNFL3; LPL; RBM45; CTNND2; CDKL3; GRK5; UPRT; DYNC2LI1; RPS6KA1; MDM2; EIF2AK3; SLC2A14; MAL2; RASSF4; DSLC4A4; HLA-DRB3; HLA-DRB3; PIK3C2B; HFE; MUC20; EPS15; NUCB2; RGS3; SLC2A3; SERPINE1; ADAM9; CD97; RPINE1; ADAM9; CD97; GALNT2; CPXM2; GSN; NGF; CXCL13; APLN; TFPI; KIRREL3; ISM2; CILP2; SFRP5; ITGBL1214; SHMT1; PYCARD; AGPAT1; NFATC2; GBE1; PABPC1; GAB1; SORBS1; NBEA; CLIP4; POP1; INPP5B; CD01; SH3B6; NNT; PCCA; POLB; PDK3; OXSM; CXorf23; AGT; MRPS36; YWHAZ; TMEM173; ECHDC3; LRPPRC; TK2; SLC25A27; B; APOM; SLC6A6; FAT1; MPP1; BCAM; CD72; GBAS; BMPR1B; NEO1; SLC6A8; DLG3; GPR56; MPP2; CLDN1; CNTNAP1; PHTF2; CYP46A1; TMED4; ASPH; NOX4; PLCD4; TLR3; PTGFRN; TMEM173; DERL1; LCLAT1; COL4A3BP; SEC61A2; CLG1; TMF1; MAN2A2; GORASP2; LCK; ERGIC3; PRNP; WDR44; CALCOCO2; GOLGA2; CHSY3; SAR1A; GCC2; ATP2C1; WST1; KIAA1210; UCHL1; SDAD1; GART; ATG4C; ITGA7; CBS; SLC12A8; SH3KBP1; ALDH1A1; ANKS6; MBNL3; USP13

1; FKTN; LEP; CXCL12; CRLF1; APOD

5; NF1; GFM1; PRKRA; PLXNB2; ZNF484; TRIM14; ZFY; TOPBP1; ZNF608; ZNF501; LRRK2; TRIP12; PRDM8; NBN; ZGCD; PTPN13; SGCE; LMOD1; TAGLN2; MAPT; ARHGAP21; RBM39; PPL; MICAL2; PSTPIP1; LST1; MACF1; MACF1; CEH; BET1; CYB5R3; TAP2; SORT1

P4;OXR1;GGTLC2;PPAT;KDM5C;PLEKHA5;TRIM38;TTC39A;CARND;WSB1;RIN2;C2CD2L;TMEM106B;DDX1;PC

;CACNB3;ILDR2;ALDH3A2;TNFRSF19;MFSD6;SAR1B;ANO2;CACNA1I;ERAP1;CLK2;NLGN4X;PDGFRA;SLC9A8
NO1;ANO2;CACNA1I;ERAP1;SLC14A2;SLC9A8;BOC;MFF;LETM2;CCDC136;EIF2AK3;SLC2A14;MAL2;TGFA;AI
AIP3;HDAC6;HES1;STK17B;CHD1L;INTS6;KIAA1009;ZBTB20;ZNF362;SHPRH;SIX1;FAM178A;SSX2IP;IRI
DNMT3A;RNF14;PDK1;SYNE1;AKR1B1;KIAA1217;USP48;RNF32;LRCH2;HDAC9;RPS6KA6;BTRC;LYN;RIPK4;I
;CADM3;GNAZ;TMEFF1;FRMD7;TFPI;SHROOM2;KIRREL3;SMAP1;FNBP1;VEPH1;NT5E;RAB3A;DSG3;ITGA2;AI
L;ITIH5;PTGDS;APOL1;CA11;CA11;TFRC;RSP01;ODZ3;C1QTNF3;PDZD2;MMP28;UACA;CTHRC1;COL4A3;AGI
3GR;RIC8B;NCBP2;MEN1;SOD1;NOD2;HSF2BP;AGL;CDK1;CPNE3;RERG;PIK3R4;MPP7;AP1G1;PTEN;PIK3R1
;GFM2;AMACR;ZNF782;NDUFV3;PET112;MTIF3;HDHD3;CASP8;BCKDK;NET1;EARS2;TXNDC16;PNKD;TMEM91
L;PTPRU;EPA4;ATP2B4;IL1RAP;TLR1;TSHR;TLR3;CRHR1;PTCH1;FXYD1;SLC12A2;PTPRA;FGFR3;GRM7;NI
YYP2C8;B3GALT;ACO1;PGAP1;PLOD3;PIGS;INSIG2;KIFAP3;MGP;ABCB9;INPP5K;MR1;PIGW;H6PD;PNPLA
VHAMM;APP;HTT;COG3;COL18A1;XYLT2;B4GALT6;MCFD2;SLC30A8;ARHGAP21;EXT2;OSBPL10;ST8SIA1;TCI
3;CASP3;PMFBP1;SPTBN1;DDX10;USP5;ZSCAN2;RIBC2

ZNF354C;BARD1;CAPN3;ZNF568;ZNF498;ARAP2;EEA1;FAM49A;NPLOC4;ZNF273;RALGDS;STAU2;ZNF595;R
P170;ACTG2;DLC1;DNAI1;CABYR;ZFC3H1;NEXN;SH3KBP1;BBS4;ADD3;PLEKHH3;SDCBP;TMOD1;FAAH;CDC

MZP3;KNDC1;XYLT2;EXOG;TSGA10;SLC35F2;C14orf2;ETNK2;ALDH7A1;TMEM126B;FAM63B;FAM114A2;ST

;MFF;LETM2;PTPRS;CCDC136;EIF2AK3;ABCC9;TKT;TMEM185A;SLC27A3;ROS1;RNF185;BTN2A2;SCAMP1;LBCC9;SEZ6L2;SYNE1;TMEM185A;SLC47A2;SLC27A3;ROS1;RNF185;BTN2A2;MALL;SCAMP1;SGPP2;NETO2;AF2;HNRNPF;CSTF2;PYGL;DBP;TESK2;GK;KLKP1;FBXL4;PRKAA2;ANLN;BRD2;MEIS1;PPFIBP2;EPB41;HR;TMICA;IFI44L;EYA4;EWSR1;TBL2;ACIN1;HLA-H;SELENBP1;FCGR2A;SORBS2;CMAHP;AUTS2;HERC3;TNFRSF RMCX5;ASIC1;CD68;LDLR;DNAJC15;STRA6;ADCY3;ADCY3;RAMP1;TFRC;DRD4;LSR;CD46;NTRK1;LGALS4;FRN;RIF1;CHRD;LAMA2;OLFM2;DPP4;CPS1;GLB1L2;LAMA4;PLA1A;NHLRC3;COL12A1;LUZP2;C6orf57;LAME ;AC01;TK2;EIF2A;ARHGEF1;PRKCD;CASP8;AKT2;MTOR;NR3C1;INPP5D;INPP5K;HPRT1;ATP6V1H;EIF3E;H ;SQRD;MR1;SLC35B3;ACAD9;CPOX;ERICH1;TOP1MT;PNPLA7;MRPL2;MRPL2;ESR2;KIAA1683;DMGDH;OXA1 LGN1;ROR1;MME;SLC4A5;NEU3;IL12RB1;TRPC1;GABBR1;NINJ2;HRH1;CD99;NET1;NET1;LIFR;JAM2;FZD3 7;ANP32A;ERO1LB;GPANK1;ERGIC3;PIGL;CD320;PRNP;CYP19A1;NCK1;STX17;ERLIN1;CES2;CES2;PDIA5 P11L1;CLCC1;GALNT3;LST1;AP4S1;CLSTN3;RAB36;SLC12A8;CHST11;GLUL;GALNT9;GALNT1;TRAPPC10;S

ALGPS2;UCHL5;ZNF718;CIDEB;RND3;TBC1D15;RASGEF1A;ZSCAN29;PRDM15;GBF1;KIN;MPP1;ANKZF1;PLE 42SE1;PBXIP1;FRMD6;RAI14;HIP1;ABL2;SPTBN1;KY;ARPC4;FRMD1;SPIRE2

XBP2;DENR;RAB8B;NIT2;LRBA;NOV;AIM1;GGT2;KIAA0247;C11orf58;FMNL1;GOS2

LOXL4; SGPP2; RIPK4; EFN1; NETO2; ADAM22; TNFRSF9; SELENBP1; IL17RA; FZD4; FER1L4; TMEM56; TNFRSF10A; ADAM22; CHRFB1; ENTPD3; FCGR2A; FZD4; GRIA1; FER1L4; TMEM56; GJA5; SYNE2; MGAT4B; ITGB8; C12orf51; ARDBP; CHAF1B; PIK3C2B; PALLD; ZFX; PPP2R4; LIMK2; MLL5; DMD; ZMIZ1; KNTC1; ZMAT4; NUCB2; RGS3; NAV2; MYO15A; SIK1; SORBS3; SYNE2; HDGF; TBPL1; EPB41L1; TNFAIP3; HDAC6; HES1; KANK1; WIPF1; AFAP1; NEPLXND1; DYNC2H1; EVI2B; ANKS1B; SH2B2; BMF; MCHR1; DPP4; ITPR2; HOMER2; SLC6A3; SAT1; TNS3; SLC22A18; LAMB2; IL15RA; MSLN; PAPP; CXCL16; FGF1; C1S; NBN; DCN; ARSK; ENTPD6; MMP16; ADAMTS17; C14orf93; IGF; PANK1; LCK; CCT8; SMAD1; MAP3K8; RAC1; PSMD1; CDK2; RAB3IP; NADSYN1; LDHA; EIF5A; APAF1; NFKB2; EIL; SFXN5; GLYATL2; ACO2; CARS2; OXR1; CHDH; ETFDH; C21orf33; HADHB; CECR5; PC; DAP3; GPAM; MTIF2; WSB3; DLG2; RAPGEF2; SLC6A13; PLXNB1; FGFR1; GPR64; ROR2; MF12; SLC20A2; CD1D; LRP4; IL1R1; SSPN; GPR1; PIP5; PIP4K2B; SLC35D1; SUMF2; FDFT1; ALG9; RHBDF2; LMF2; XYLT2; LRRTM1; CREB3L3; MCFD2; DNAJC10; EXT2; SLC9A7; MCAM; FAS; CAV1; PCSK5; PTGS1; TPST1; B4GALNT4; MBNL3; SERINC5; GSGT1; BET1; TPST2; ENTPD4; H

KHG1; MYO9A; RABGAP1L; PLXNA4; HUWE1; FGD6; BBS5; CD74; ZNF566; ZNF343; HERC1; PYCARD; RHOBTB2; TAF

4; SYNE2; MGAT4B; ITGB8; C12orf51; TMEM200A; TSPAN1; ABCC1; PCSK2; CD81; P4HTM; SCN10A; KCNMB1; DDR1; TMEM200A; TSPAN1; SCN10A; KCNMB1; RNF180; CNNM2; GLIPR1L2; FGFR2; TLR5; HLA-DRB3; HLA-DRB3; MAOB; DSN1; ZNF658B; FRMD7; HDAC4; GLCCI1; HOXB6; WRB; NFXL1; SP140; ETV1; STK3; TFPI; ENC1; MEIS2; TOP2A; B; ATG4B; CAPZB; SIX1; HECW2; STMN2; PYGL; DBP; GK; GK; GK; KLKP1; ST13; FBXL4; ANLN; BRD2; PPFIBP2; PPF; PIK3AP1; ADD2; CACNA1A; LAMB2; ESR1; MSLN; CXCL16; SHC4; STAB1; OXTR; DYSF; LAT2; LAT2; NPFFR1; LRRK; SCG5; DNASE1; MMP24; COL11A1; ADAM23; ADAM23; LCN6; NXPH4; CHAD; IL6ST; APOM; COL2A1; LAMC2; FHL1; LYIF4H; EIF3B; C21orf59; DFFB; GPAM; NEDD4; ELM01; ARHGEF7; FAH; AR; CDA; GAPVD1; TRAF2; NCALD; C9orf89; SETD3; PPM1K; SLC25A12; HMGCL; SLC25A37; OXCT1; AK2; OGG1; COX7A2L; STARD7; PHF16; EXOG; PPL; SCP2; TGER3; SLC7A2; CD40; PC; CLEC2D; NRXN3; GHR; HOMER1; FLT4; SLC22A14; EPOR; APP; CCBP2; CCBP2; PTH1R; F; CERS5; HERPUD1; SLC36A1; CLCC1; SHISA3; ALG13; ANTXR2; EBP; CLSTN3; TMC6; EPM2A; EPM2A; CAV1; SDCBP; IP1; VPS45; FKTN; ST3GAL5; A4GALT; ST6GALNAC5; RIBC2; KCNJ6; SORT1

15; ZEB1; ZNF638; LIG4; ZNF621; ZNF776; ZNF692; ARAP3; ZBTB25; MRPL44; ITSN2; DBNL; PPFIA4; ZNF705G;

L;RNF180;CNNM2;STMN2;GLIPR1L2;GOLGA1;GK;GK;LAPTM5;TLR5;MUC4;HLA-DRB3;MAOB;FAM159A;PLXNA;
;FAM159A;PLXNA2;ODZ2;LARGE;ST3GAL1;SLC2A3;HLA-F;ADAM9;CADM3;AKAP1;GALNT2;CACNA2D1;TMEFF
;ZNF83;PNMA2;DCTN4;SMAP1;FGF13;MED24;MED24;ETS1;BRWD1;RSBN1;RBM5;TRERF1;DUSP10;HOXC10;C
P4R4;EPB41;CHAF1B;COL22A1;PIK3C2B;PALLD;CSNK1A1;HFE;LIMK2;DZIP3;NAMPT;DMD;GTSE1;EPS15;Z
C2;NPTXR;AQP3;APBB1IP;SLC41A3;ZNF185;SPRY4;CTTNBP2;MYO6;MMP16;MOG;ARFIP2;PNPLA2;SEMA4F;
{NX1;EDIL3;IL17RE;ADAMTS9;NPNT;MMP11;ANGPTL1;PYCARD;COL1A1;GNAS;MGAT4A;ADAMTS16;GLB1L;F
);PSMA4;PSMD11;MAPT;PIIP5K2;MTMR7;PRKAG2;PFKFB2;ISCU;SERPINB8;UGP2;GLRX;UCHL1;GART;ATG4
2;NDUFB2;ISCU;C14orf2;ALDH7A1;MLLT6;ADH5;PDP1;GART;MAOA;SLC25A36;GSR;MMAB;XAF1;GLUL;HIB
HTT;PCDH7;SGCE;P2RX6;ATRN;NOTCH4;SLC4A3;LST1;SLC7A8;ADRA1A;ADRA1A;TRPV1;SLC6A9;HBEGF;SL
;PTGS1;SERINC5;FAAH;NOV;BET1;MGST1;CYB5R3;ULBP1;TMT2;TPST2;TAP2;CCDC3;SORT1

;SP4;JMJD1C;RAP1GAP2;RPL39L;TNXB;CASP1;INPP5B;HECTD3;IQGAP3;DZIP1L;ZBTB16;RBM6;ITSN1;WW

2; TM4SF1; ODZ2; LARGE; ST3GAL1; HLA-F; AKAP1; CYB561; GALNT2; CACNA2D1; ABCA5; ERAP2; CYP39A1; WRB; 1; ABCA5; ERAP2; WRB; NFXL1; LMBRD1; SLC37A3; ECE1; AGPAT5; CLMN; SLC39A10; GALNT12; KIRREL3; MGAT5; HD7; PRKDC; RFC4; FOXL1; ORC1; RUNX2; ARMCX5; RERE; PITX1; NDRG2; CBX7; PTGDS; DNAJC15; SKIV2L; WBSCF; MIZ1; KNTC1; LYST; DES; NUCB2; TNS1; RGS3; SLC2A3; ADAM9; TNFAIP8; MARK1; GULP1; AKAP1; GNAZ; DNMT3; GSG; TMEM50B; ATP5A1; C14orf93; UTRN; RALGPS2; MMP24; ADAM23; ADAM23; PTPRQ; MAPKAP1; CELSR2; CD200; SGC; NDC1; CRISPLD2; WISP3; ELN; SEMA3A; COL8A1; SCUBE1; FAM132B; ADAMTS6; MFAP2; SEMA3B; COL9A1; TMEM25; C; ALS2; DLC1; GSR; CBS; BANF1; PTPN12; SH3KBP1; ALDH1A1; PDXK; ATF2; CDC6; C21orf7; FAS; FAS; EPM2A; F; CH; DARS2; NIT2; PDK4; UCP2; CTAGE5; CASP3; ISCA2; MCEE; MDP1; SLC25A14; ACADM; SARDH; ISCA1; MGST1; F; C11A2; EBP; KCNJ15; PTK7; NCR1; CAV1; CLDN4; CEACAM8; MICB; EFNA1; SLC23A2; SLC23A2; SLC25A14; CELSF

P2; SGSM3; EXOSC10; ZNF419; ZNF133; GLI1; ZNF557; KIAA0317; ROCK2; POLB; NOD2; ZNF641; TBC1D26; CANT

;NFXL1;LMBRD1;SLC37A3;ECE1;AGPAT5;CLMN;SLC39A10;DAB2;GALNT12;ATP6V1B1;MGAT5;CHST6;GGT7;
;CHST6;GGT7;SLC38A6;TMEM26;SLC25A10;TSPAN11;RPN2;DSG3;MFSD9;SEMA4B;ORC1;TRIM59;ITGA2;RN
R22;AKNA;NFATC3;HMOX1;CDKN2A;CDKN2A;NFYC;TET1;LSR;CAMK2D;TRIP13;PAPD4;TACC1;PDZD2;TRIM6
5N;DSN1;FRMD7;ACTN1;HDAC4;GLCCI1;PABPC4;SP140;CLMN;FRMD4A;STK3;STK3;TFPI;ENC1;SHROOM2;M
CB;GRIA3;MADD;ARRB2;IL6ST;AAMP;FPR1;CLIC6;SYNPO;PKP2;ADRBK2;PARVB;DOK1;IL17RD;FAT1;LYNX
5;RSPRY1;TNXB;LEPRE1;SCRG1;CTSL1;PLA2G2A;PGF;RNPEP;CRTAC1;SFRP1;VCAN;WNT9B;IL1RAP;PRLR;
RHEB;NT5C2;UBE3C;CASP3;NOV;EIF1AX;PBXIP1;EIF4E;BCL2L11;RIPK2;CDC16;MX1;NAT1;ASNS;TGFB2
FRMD6;BCL2L11;CYB5R3;RAI14;TIMM9;TRNT1;TRNT1;PIM1;NAT1;MRPS5;SLC25A16;CHKB;MFN1;REXO2;P
R1;TIE1;SLC40A1;ANPEP;SLC6A1;NAT1;NAT1;PTGER2;ST3GAL5;LPAR4;EDNRA;LYVE1

02;FAM13B;AKAP13;MDM4;ARHGAP24;RAPGEF5;REERG;ZNF706;ARHGAP6;ZNF480;PIK3R1;PSD4;ZNF425;FU

SLC38A6;KCNMB4;TMEM26;SLC25A10;TSPAN11;RPN2;MFSD9;SEMA4B;ORC1;TRIM59;RHCE;RNF145;GREB1;F145;CD68;GREB1;ROB02;TMEM180;DNAJC15;STRA6;ADCY3;SPAG9;SEMA5A;ACBD5;ADAM15;LSR;RRBP1;S6;ALDOA;HTATIP2;ZMYM1;ODF2;POLD3;ZBTB46;ZNF596;AKAP6;TCEB1;ZNF792;ITGB3BP;XP07;RNF111;UEIS2;TOP2A;DCTN4;SMAP1;STAC;FGF13;TARSL2;MED24;BRWD1;FNBP1;SOCS2;DUSP10;SCIN;FAM110B;RA1;BBS5;COL1A1;GNAS;GNAS;GNAS;MDGA1;BCAM;MEGF11;LIG4;COL13A1;SOCS7;MYOT;ARAP3;PCDH9;MYH1TNC;KAZALD1;STRC;NAT6;KLK4;ADAMTS1;AGT;EFEMP1;THBS3;FBLN2;CCL28;TLL2;NOTUM;PDGFA;MMP7;C;TAP2;PRICKLE1
TS

S;TIAM1;ZNF782;ZNF862;ARHGEF1;ZNF512;PRDM6;HECTD2;TWF1;PARP1;SYNGAP1;SP7;ZFP92;ZNF704;N

;ROBO2;PTGDS;TMEM180;SEMA5A;ACBD5;OLFM1;ADAM15;RRBP1;SLC35F5;MGAT1;M
SLC35F5;MGAT1;MGAT1;ODZ3;PIGN;SLCO3A1;PLXND1;TMEM176A;PLEKHH2;FLNB;D
JACA;SRRM1;S100P;RBPJ;ZNF33B;RORA;ZNF554;GNL2;INTS7;ANKS1B;PRPF40A;F
AB3A;STK11IP;ARMCX5;NDRG2;PTGDS;DNAJC15;NFATC3;SPAG9;TTLL3;CDKN2A;LS
10;PTPN3;TGOLN2;BMPR1B;PTK2B;SCUBE1;GAB1;MAP4K2;NEO1;THEM4;SORBS1;GF
CX3CL1;C1QTNF1;LGI3;IL16;FAM3C;COL9A3;MME;GDF5;SEPP1;IL18BP;ARSB;TNF

NFIB;TRIM2;NR3C1;NET1;KLF6;SEC14L2;VPS13A;DNMBP;ZNF451;TRIM5;TRIM9;R

| GO Term | Count | p-Value | q-Value |
|--|-------|-----------|-----------|
| GO:0005515 protein binding | 1143 | 0 | 0 |
| GO:0046872 metal ion binding | 513 | 0 | 0 |
| GO:0000166 nucleotide binding | 442 | 0 | 0 |
| GO:0005524 ATP binding | 370 | 0 | 0 |
| GO:0008270 zinc ion binding | 485 | 0 | 0 |
| GO:0016740 transferase activity | 305 | 2.20E-275 | 4.73E-273 |
| GO:0005509 calcium ion binding | 217 | 3.17E-221 | 5.86E-219 |
| GO:0003700 transcription factor activity | 167 | 4.35E-148 | 5.35E-146 |
| GO:0003677 DNA binding | 218 | 5.50E-133 | 5.68E-131 |
| GO:0000287 magnesium ion binding | 114 | 2.40E-122 | 2.38E-120 |
| GO:0016787 hydrolase activity | 203 | 5.50E-121 | 5.07E-119 |
| GO:0016491 oxidoreductase activity | 113 | 1.73E-98 | 1.28E-96 |
| GO:0008233 peptidase activity | 104 | 1.40E-93 | 1.00E-91 |
| GO:0004674 protein serine/threonine kinase activity | 93 | 1.97E-92 | 1.34E-90 |
| GO:0003779 actin binding | 84 | 3.62E-91 | 2.34E-89 |
| GO:0003723 RNA binding | 109 | 1.76E-90 | 1.11E-88 |
| GO:0042803 protein homodimerization activity | 76 | 2.62E-87 | 1.54E-85 |
| GO:0004872 receptor activity | 147 | 9.66E-85 | 5.55E-83 |
| GO:0016874 ligase activity | 80 | 9.95E-79 | 5.47E-77 |
| GO:0005506 iron ion binding | 56 | 1.58E-65 | 8.00E-64 |
| GO:0043565 sequence-specific DNA binding | 75 | 2.29E-59 | 1.08E-57 |
| GO:0005525 GTP binding | 62 | 6.03E-55 | 2.69E-53 |
| GO:0009055 electron carrier activity | 51 | 6.73E-53 | 2.80E-51 |
| GO:0042802 identical protein binding | 67 | 1.17E-51 | 4.79E-50 |
| GO:0005516 calmodulin binding | 43 | 4.65E-51 | 1.88E-49 |
| GO:0008201 heparin binding | 35 | 1.48E-46 | 5.48E-45 |
| GO:0005096 GTPase activator activity | 46 | 2.81E-44 | 9.93E-43 |
| GO:0046982 protein heterodimerization activity | 38 | 5.28E-41 | 1.79E-39 |
| GO:0005201 extracellular matrix structural constituent | 30 | 3.20E-38 | 1.02E-36 |
| GO:0004222 metalloendopeptidase activity | 32 | 5.54E-38 | 1.74E-36 |
| GO:0017124 SH3 domain binding | 30 | 4.04E-37 | 1.21E-35 |
| GO:0005085 guanyl-nucleotide exchange factor activity | 35 | 7.54E-37 | 2.24E-35 |
| GO:0008415 acyltransferase activity | 37 | 6.16E-36 | 1.73E-34 |
| GO:0004386 helicase activity | 33 | 5.16E-35 | 1.42E-33 |
| GO:0008083 growth factor activity | 36 | 1.21E-34 | 3.29E-33 |
| GO:0016757 transferase activity, transferring glycosyl groups | 40 | 6.94E-34 | 1.87E-32 |
| GO:0003682 chromatin binding | 30 | 9.11E-34 | 2.43E-32 |
| GO:0031402 sodium ion binding | 30 | 7.21E-33 | 1.90E-31 |
| GO:0003713 transcription coactivator activity | 34 | 4.38E-32 | 1.12E-30 |
| GO:0008022 protein C-terminus binding | 27 | 6.79E-30 | 1.65E-28 |
| GO:0030145 manganese ion binding | 30 | 2.35E-29 | 5.68E-28 |
| GO:0019992 diacylglycerol binding | 23 | 4.59E-29 | 1.10E-27 |
| GO:0004842 ubiquitin-protein ligase activity | 28 | 9.09E-29 | 2.13E-27 |
| GO:0003924 GTPase activity | 32 | 1.24E-28 | 2.88E-27 |
| GO:0008168 methyltransferase activity | 30 | 3.26E-28 | 7.40E-27 |
| GO:0015293 symporter activity | 29 | 4.60E-28 | 1.03E-26 |
| GO:0016702 oxidoreductase activity, acting on single donors w: | 22 | 6.90E-28 | 1.54E-26 |
| GO:0032393 MHC class I receptor activity | 17 | 1.30E-27 | 2.88E-26 |
| GO:0003714 transcription corepressor activity | 26 | 2.08E-26 | 4.47E-25 |
| GO:0003777 microtubule motor activity | 22 | 1.16E-25 | 2.41E-24 |
| GO:0008134 transcription factor binding | 40 | 4.65E-25 | 9.45E-24 |

| | | | | |
|------------|--|----|----------|----------|
| G0:0016853 | isomerase activity | 25 | 1.92E-24 | 3.82E-23 |
| G0:0005215 | transporter activity | 61 | 4.19E-24 | 8.19E-23 |
| G0:0051015 | actin filament binding | 17 | 2.04E-23 | 3.91E-22 |
| G0:0005200 | structural constituent of cytoskeleton | 20 | 4.73E-23 | 8.86E-22 |
| G0:0016563 | transcriptional activator activity | 33 | 6.49E-23 | 1.21E-21 |
| G0:0005198 | structural molecule activity | 44 | 9.92E-23 | 1.82E-21 |
| G0:0005244 | voltage-gated ion channel activity | 27 | 1.10E-22 | 2.01E-21 |
| G0:0004252 | serine-type endopeptidase activity | 25 | 3.30E-22 | 5.88E-21 |
| G0:0005507 | copper ion binding | 19 | 3.74E-22 | 6.59E-21 |
| G0:0050660 | FAD binding | 19 | 3.74E-22 | 6.59E-21 |
| G0:0016829 | lyase activity | 24 | 1.00E-21 | 1.75E-20 |
| G0:0005089 | Rho guanyl-nucleotide exchange factor activity | 19 | 1.26E-21 | 2.19E-20 |
| G0:0004221 | ubiquitin thiolesterase activity | 19 | 1.69E-21 | 2.89E-20 |
| G0:0003684 | damaged DNA binding | 16 | 5.25E-21 | 8.81E-20 |
| G0:0003702 | RNA polymerase II transcription factor activity | 27 | 5.47E-21 | 9.11E-20 |
| G0:0030955 | potassium ion binding | 22 | 1.44E-20 | 2.38E-19 |
| G0:0003743 | translation initiation factor activity | 17 | 4.33E-20 | 7.00E-19 |
| G0:0047485 | protein N-terminus binding | 16 | 5.85E-20 | 9.39E-19 |
| G0:0005529 | sugar binding | 24 | 1.68E-19 | 2.64E-18 |
| G0:0004725 | protein tyrosine phosphatase activity | 19 | 1.08E-18 | 1.68E-17 |
| G0:0008017 | microtubule binding | 15 | 3.61E-18 | 5.40E-17 |
| G0:0004867 | serine-type endopeptidase inhibitor activity | 18 | 4.05E-18 | 6.02E-17 |
| G0:0016564 | transcriptional repressor activity | 25 | 2.12E-17 | 2.96E-16 |
| G0:0004197 | cysteine-type endopeptidase activity | 16 | 2.43E-17 | 3.37E-16 |
| G0:0005070 | SH3/SH2 adaptor activity | 14 | 3.88E-17 | 5.31E-16 |
| G0:0019901 | protein kinase binding | 17 | 1.40E-16 | 1.86E-15 |
| G0:0008026 | ATP-dependent helicase activity | 17 | 1.69E-16 | 2.22E-15 |
| G0:0004722 | protein serine/threonine phosphatase activity | 13 | 5.84E-16 | 7.35E-15 |
| G0:0004653 | polypeptide N-acetylgalactosaminyltransferase activity | 10 | 1.17E-15 | 1.46E-14 |
| G0:0005518 | collagen binding | 11 | 1.60E-15 | 1.96E-14 |
| G0:0031418 | L-ascorbic acid binding | 10 | 2.32E-15 | 2.83E-14 |
| G0:0016887 | ATPase activity | 25 | 5.80E-15 | 6.90E-14 |
| G0:0008565 | protein transporter activity | 15 | 1.01E-14 | 1.17E-13 |
| G0:0020037 | heme binding | 17 | 1.18E-14 | 1.37E-13 |
| G0:0003774 | motor activity | 18 | 1.65E-14 | 1.90E-13 |
| G0:0003697 | single-stranded DNA binding | 12 | 5.50E-14 | 5.91E-13 |
| G0:0003707 | steroid hormone receptor activity | 12 | 9.52E-14 | 1.01E-12 |
| G0:0004713 | protein-tyrosine kinase activity | 18 | 1.19E-13 | 1.25E-12 |
| G0:0008234 | cysteine-type peptidase activity | 17 | 1.42E-13 | 1.48E-12 |
| G0:0005178 | integrin binding | 12 | 1.61E-13 | 1.65E-12 |
| G0:0004930 | G-protein coupled receptor activity | 38 | 2.14E-13 | 2.18E-12 |
| G0:0018024 | histone-lysine N-methyltransferase activity | 10 | 7.25E-13 | 7.10E-12 |
| G0:0003887 | DNA-directed DNA polymerase activity | 10 | 7.25E-13 | 7.10E-12 |
| G0:0003725 | double-stranded RNA binding | 10 | 1.03E-12 | 1.00E-11 |
| G0:0000049 | tRNA binding | 8 | 2.91E-12 | 2.75E-11 |
| G0:0005125 | cytokine activity | 18 | 4.27E-12 | 4.01E-11 |
| G0:0005351 | sugar porter activity | 10 | 5.02E-12 | 4.68E-11 |
| G0:0004407 | histone deacetylase activity | 8 | 8.87E-12 | 8.11E-11 |
| G0:0016881 | acid-amino acid ligase activity | 17 | 8.97E-12 | 8.15E-11 |
| G0:0030170 | pyridoxal phosphate binding | 11 | 9.07E-12 | 8.22E-11 |
| G0:0008307 | structural constituent of muscle | 10 | 1.94E-11 | 1.72E-10 |
| G0:0005452 | inorganic anion exchanger activity | 7 | 2.04E-11 | 1.81E-10 |

| | | | | |
|------------|---|----|----------|----------|
| G0:0015297 | antiporter activity | 11 | 2.08E-11 | 1.83E-10 |
| G0:0031404 | chloride ion binding | 12 | 2.90E-11 | 2.51E-10 |
| G0:0031072 | heat shock protein binding | 11 | 3.07E-11 | 2.64E-10 |
| G0:0016798 | hydrolase activity, acting on glycosyl bonds | 14 | 3.35E-11 | 2.88E-10 |
| G0:0051539 | 4 iron, 4 sulfur cluster binding | 8 | 5.54E-11 | 4.67E-10 |
| G0:0005545 | phosphatidylinositol binding | 7 | 7.53E-11 | 6.24E-10 |
| G0:0004012 | phospholipid-translocating ATPase activity | 7 | 7.53E-11 | 6.24E-10 |
| G0:0016779 | nucleotidyltransferase activity | 14 | 8.13E-11 | 6.71E-10 |
| G0:0005216 | ion channel activity | 22 | 1.11E-10 | 9.06E-10 |
| G0:0030674 | protein binding, bridging | 12 | 1.11E-10 | 9.06E-10 |
| G0:0005097 | Rab GTPase activator activity | 10 | 1.80E-10 | 1.42E-09 |
| G0:0035091 | phosphoinositide binding | 12 | 1.91E-10 | 1.51E-09 |
| G0:0005001 | transmembrane receptor protein tyrosine phosphatase | 7 | 2.23E-10 | 1.76E-09 |
| G0:0005161 | platelet-derived growth factor receptor binding | 6 | 2.47E-10 | 1.92E-09 |
| G0:0004385 | guanylate kinase activity | 6 | 2.47E-10 | 1.92E-09 |
| G0:0004871 | signal transducer activity | 57 | 2.78E-10 | 2.16E-09 |
| G0:0008430 | selenium binding | 8 | 6.21E-10 | 4.69E-09 |
| G0:0030020 | extracellular matrix structural constituent confere | 5 | 7.02E-10 | 5.26E-09 |
| G0:0050661 | NADP binding | 8 | 8.29E-10 | 6.15E-09 |
| G0:0016820 | hydrolase activity, acting on acid anhydrides, cata | 12 | 1.18E-09 | 8.64E-09 |
| G0:0008009 | chemokine activity | 9 | 1.28E-09 | 9.32E-09 |
| G0:0043130 | ubiquitin binding | 7 | 1.29E-09 | 9.33E-09 |
| G0:0005158 | insulin receptor binding | 7 | 1.87E-09 | 1.34E-08 |
| G0:0008093 | cytoskeletal adaptor activity | 6 | 1.96E-09 | 1.40E-08 |
| G0:0000155 | two-component sensor activity | 6 | 1.96E-09 | 1.40E-08 |
| G0:0008289 | lipid binding | 21 | 2.13E-09 | 1.51E-08 |
| G0:0005179 | hormone activity | 12 | 2.25E-09 | 1.59E-08 |
| G0:0005044 | scavenger receptor activity | 8 | 2.38E-09 | 1.67E-08 |
| G0:0004115 | 3',5'-cyclic-AMP phosphodiesterase activity | 5 | 2.44E-09 | 1.70E-08 |
| G0:0043531 | ADP binding | 6 | 3.41E-09 | 2.34E-08 |
| G0:0008656 | caspase activator activity | 6 | 3.41E-09 | 2.34E-08 |
| G0:0004519 | endonuclease activity | 11 | 5.02E-09 | 3.36E-08 |
| G0:0050681 | androgen receptor binding | 7 | 5.14E-09 | 3.42E-08 |
| G0:0004715 | non-membrane spanning protein tyrosine kinase activ | 8 | 6.01E-09 | 3.95E-08 |
| G0:0016706 | oxidoreductase activity, acting on paired donors, v | 7 | 6.97E-09 | 4.54E-08 |
| G0:0004402 | histone acetyltransferase activity | 7 | 9.32E-09 | 5.95E-08 |
| G0:0004740 | [pyruvate dehydrogenase (lipoamide)] kinase activit | 4 | 1.14E-08 | 7.23E-08 |
| G0:0005086 | ARF guanyl-nucleotide exchange factor activity | 6 | 1.37E-08 | 8.54E-08 |
| G0:0004177 | aminopeptidase activity | 7 | 1.61E-08 | 9.93E-08 |
| G0:0003690 | double-stranded DNA binding | 9 | 1.66E-08 | 1.02E-07 |
| G0:0004714 | transmembrane receptor protein tyrosine kinase acti | 9 | 2.21E-08 | 1.34E-07 |
| G0:0051082 | unfolded protein binding | 11 | 2.62E-08 | 1.57E-07 |
| G0:0004004 | ATP-dependent RNA helicase activity | 6 | 2.95E-08 | 1.74E-07 |
| G0:0008060 | ARF GTPase activator activity | 7 | 4.25E-08 | 2.48E-07 |
| G0:0004926 | non-G-protein coupled 7TM receptor activity | 5 | 5.18E-08 | 3.01E-07 |
| G0:0008301 | DNA bending activity | 5 | 5.18E-08 | 3.01E-07 |
| G0:0005041 | low-density lipoprotein receptor activity | 5 | 5.18E-08 | 3.01E-07 |
| G0:0003755 | peptidyl-prolyl cis-trans isomerase activity | 7 | 5.30E-08 | 3.06E-07 |
| G0:0030971 | receptor tyrosine kinase binding | 4 | 5.66E-08 | 3.25E-07 |
| G0:0004439 | phosphoinositide 5-phosphatase activity | 4 | 5.66E-08 | 3.25E-07 |
| G0:0004028 | 3-chloroallyl aldehyde dehydrogenase activity | 4 | 5.66E-08 | 3.25E-07 |
| G0:0008237 | metallopeptidase activity | 13 | 5.76E-08 | 3.27E-07 |

| | | | | |
|------------|--|----|----------|----------|
| G0:0017137 | Rab GTPase binding | 6 | 5.79E-08 | 3.27E-07 |
| G0:0004364 | glutathione transferase activity | 6 | 7.89E-08 | 4.42E-07 |
| G0:0046332 | SMAD binding | 7 | 9.87E-08 | 5.46E-07 |
| G0:0004437 | inositol or phosphatidylinositol phosphatase activity | 6 | 1.06E-07 | 5.84E-07 |
| G0:0042626 | ATPase activity, coupled to transmembrane movement | 10 | 1.24E-07 | 6.78E-07 |
| G0:0005523 | tropomyosin binding | 5 | 1.42E-07 | 7.71E-07 |
| G0:0042288 | MHC class I protein binding | 5 | 1.42E-07 | 7.71E-07 |
| G0:0016301 | kinase activity | 26 | 1.66E-07 | 8.94E-07 |
| G0:0004030 | aldehyde dehydrogenase [NAD(P)+] activity | 4 | 1.68E-07 | 9.01E-07 |
| G0:0004415 | hyaluronoglucosaminidase activity | 4 | 1.68E-07 | 9.01E-07 |
| G0:0005521 | lamin binding | 4 | 1.68E-07 | 9.01E-07 |
| G0:0004497 | monooxygenase activity | 9 | 1.79E-07 | 9.49E-07 |
| G0:0003950 | NAD+ ADP-ribosyltransferase activity | 6 | 1.82E-07 | 9.59E-07 |
| G0:0005102 | receptor binding | 27 | 1.85E-07 | 9.67E-07 |
| G0:0008138 | protein tyrosine/serine/threonine phosphatase activity | 7 | 2.08E-07 | 1.09E-06 |
| G0:0030165 | PDZ domain binding | 6 | 2.99E-07 | 1.54E-06 |
| G0:0004697 | protein kinase C activity | 5 | 3.25E-07 | 1.66E-06 |
| G0:0004806 | triacylglycerol lipase activity | 5 | 3.25E-07 | 1.66E-06 |
| G0:0003995 | acyl-CoA dehydrogenase activity | 5 | 3.25E-07 | 1.66E-06 |
| G0:0004143 | diacylglycerol kinase activity | 5 | 3.25E-07 | 1.66E-06 |
| G0:0004568 | chitinase activity | 4 | 3.90E-07 | 1.95E-06 |
| G0:0004445 | inositol-polyphosphate 5-phosphatase activity | 4 | 3.90E-07 | 1.95E-06 |
| G0:0016308 | 1-phosphatidylinositol-4-phosphate 5-kinase activity | 4 | 3.90E-07 | 1.95E-06 |
| G0:0046875 | ephrin receptor binding | 4 | 3.90E-07 | 1.95E-06 |
| G0:0016455 | RNA polymerase II transcription mediator activity | 5 | 4.69E-07 | 2.30E-06 |
| G0:0004089 | carbonate dehydratase activity | 5 | 4.69E-07 | 2.30E-06 |
| G0:0001948 | glycoprotein binding | 5 | 4.69E-07 | 2.30E-06 |
| G0:0008603 | cAMP-dependent protein kinase regulator activity | 5 | 4.69E-07 | 2.30E-06 |
| G0:0004693 | cyclin-dependent protein kinase activity | 6 | 4.72E-07 | 2.30E-06 |
| G0:0005057 | receptor signaling protein activity | 11 | 5.70E-07 | 2.76E-06 |
| G0:0015662 | ATPase activity, coupled to transmembrane movement | 7 | 6.39E-07 | 3.09E-06 |
| G0:0008601 | protein phosphatase type 2A regulator activity | 5 | 6.58E-07 | 3.17E-06 |
| G0:0004029 | aldehyde dehydrogenase (NAD) activity | 4 | 7.73E-07 | 3.67E-06 |
| G0:0005021 | vascular endothelial growth factor receptor activity | 4 | 7.73E-07 | 3.67E-06 |
| G0:0030675 | Rac GTPase activator activity | 4 | 7.73E-07 | 3.67E-06 |
| G0:0042813 | Wnt receptor activity | 4 | 7.73E-07 | 3.67E-06 |
| G0:0048306 | calcium-dependent protein binding | 5 | 9.04E-07 | 4.21E-06 |
| G0:0004709 | MAP kinase kinase kinase activity | 5 | 9.04E-07 | 4.21E-06 |
| G0:0004683 | calmodulin regulated protein kinase activity | 5 | 9.04E-07 | 4.21E-06 |
| G0:0003735 | structural constituent of ribosome | 11 | 1.08E-06 | 4.98E-06 |
| G0:0030229 | very-low-density lipoprotein receptor activity | 3 | 1.11E-06 | 4.98E-06 |
| G0:0017112 | Rab guanyl-nucleotide exchange factor activity | 3 | 1.11E-06 | 4.98E-06 |
| G0:0004924 | oncostatin-M receptor activity | 3 | 1.11E-06 | 4.98E-06 |
| G0:0000400 | four-way junction DNA binding | 3 | 1.11E-06 | 4.98E-06 |
| G0:0032137 | guanine/thymine mispair binding | 3 | 1.11E-06 | 4.98E-06 |
| G0:0032142 | single guanine insertion binding | 3 | 1.11E-06 | 4.98E-06 |
| G0:0032357 | oxidized purine DNA binding | 3 | 1.11E-06 | 4.98E-06 |
| G0:0003746 | translation elongation factor activity | 5 | 1.22E-06 | 5.40E-06 |
| G0:0042169 | SH2 domain binding | 5 | 1.22E-06 | 5.40E-06 |
| G0:0003840 | gamma-glutamyltransferase activity | 4 | 1.38E-06 | 6.09E-06 |
| G0:0030742 | GTP-dependent protein binding | 4 | 1.38E-06 | 6.09E-06 |
| G0:0016566 | specific transcriptional repressor activity | 5 | 1.61E-06 | 7.02E-06 |

| | | | | |
|------------|---|----|----------|----------|
| G0:0004861 | cyclin-dependent protein kinase inhibitor activity | 4 | 2.28E-06 | 9.82E-06 |
| G0:0042301 | phosphate binding | 5 | 3.40E-06 | 1.44E-05 |
| G0:0031625 | ubiquitin protein ligase binding | 5 | 3.40E-06 | 1.44E-05 |
| G0:0003873 | 6-phosphofructo-2-kinase activity | 3 | 4.39E-06 | 1.80E-05 |
| G0:0004634 | phosphopyruvate hydratase activity | 3 | 4.39E-06 | 1.80E-05 |
| G0:0004301 | epoxide hydrolase activity | 3 | 4.39E-06 | 1.80E-05 |
| G0:0030507 | spectrin binding | 3 | 4.39E-06 | 1.80E-05 |
| G0:0004815 | aspartate-tRNA ligase activity | 3 | 4.39E-06 | 1.80E-05 |
| G0:0004563 | beta-N-acetylhexosaminidase activity | 3 | 4.39E-06 | 1.80E-05 |
| G0:0004862 | cAMP-dependent protein kinase inhibitor activity | 3 | 4.39E-06 | 1.80E-05 |
| G0:0004435 | phosphoinositide phospholipase C activity | 5 | 5.28E-06 | 2.11E-05 |
| G0:0004622 | lysophospholipase activity | 4 | 5.29E-06 | 2.11E-05 |
| G0:0005355 | glucose transporter activity | 4 | 5.29E-06 | 2.11E-05 |
| G0:0004065 | arylsulfatase activity | 4 | 5.29E-06 | 2.11E-05 |
| G0:0042826 | histone deacetylase binding | 4 | 5.29E-06 | 2.11E-05 |
| G0:0001540 | beta-amyloid binding | 4 | 5.29E-06 | 2.11E-05 |
| G0:0046870 | cadmium ion binding | 4 | 5.29E-06 | 2.11E-05 |
| G0:0005100 | Rho GTPase activator activity | 5 | 6.48E-06 | 2.56E-05 |
| G0:0005159 | insulin-like growth factor receptor binding | 4 | 7.58E-06 | 2.96E-05 |
| G0:0017048 | Rho GTPase binding | 5 | 7.88E-06 | 3.06E-05 |
| G0:0046966 | thyroid hormone receptor binding | 5 | 7.88E-06 | 3.06E-05 |
| G0:0030295 | protein kinase activator activity | 4 | 1.05E-05 | 4.03E-05 |
| G0:0004720 | protein-lysine 6-oxidase activity | 3 | 1.09E-05 | 4.10E-05 |
| G0:0051721 | protein phosphatase 2A binding | 3 | 1.09E-05 | 4.10E-05 |
| G0:0048407 | platelet-derived growth factor binding | 3 | 1.09E-05 | 4.10E-05 |
| G0:0005007 | fibroblast growth factor receptor activity | 3 | 1.09E-05 | 4.10E-05 |
| G0:0008131 | amine oxidase activity | 3 | 1.09E-05 | 4.10E-05 |
| G0:0004565 | beta-galactosidase activity | 3 | 1.09E-05 | 4.10E-05 |
| G0:0005547 | phosphatidylinositol-3,4,5-triphosphate binding | 3 | 1.09E-05 | 4.10E-05 |
| G0:0000036 | acyl carrier activity | 3 | 1.09E-05 | 4.10E-05 |
| G0:0004062 | aryl sulfotransferase activity | 3 | 1.09E-05 | 4.10E-05 |
| G0:0050897 | cobalt ion binding | 4 | 1.42E-05 | 5.20E-05 |
| G0:0017046 | peptide hormone binding | 4 | 1.42E-05 | 5.20E-05 |
| G0:0015035 | protein disulfide oxidoreductase activity | 4 | 1.42E-05 | 5.20E-05 |
| G0:0002020 | protease binding | 4 | 1.88E-05 | 6.68E-05 |
| G0:0017022 | myosin binding | 4 | 1.88E-05 | 6.68E-05 |
| G0:0042043 | neurexin binding | 3 | 2.16E-05 | 7.52E-05 |
| G0:0004126 | cytidine deaminase activity | 3 | 2.16E-05 | 7.52E-05 |
| G0:0008046 | axon guidance receptor activity | 3 | 2.16E-05 | 7.52E-05 |
| G0:0004887 | thyroid hormone receptor activity | 3 | 2.16E-05 | 7.52E-05 |
| G0:0016018 | cyclosporin A binding | 3 | 2.16E-05 | 7.52E-05 |
| G0:0003688 | DNA replication origin binding | 3 | 2.16E-05 | 7.52E-05 |
| G0:0032405 | MutLalpha complex binding | 3 | 2.16E-05 | 7.52E-05 |
| G0:0050700 | CARD domain binding | 3 | 2.16E-05 | 7.52E-05 |
| G0:0051287 | NAD binding | 5 | 2.20E-05 | 7.53E-05 |
| G0:0019899 | enzyme binding | 14 | 2.20E-05 | 7.53E-05 |
| G0:0042605 | peptide antigen binding | 4 | 2.44E-05 | 8.31E-05 |
| G0:0004860 | protein kinase inhibitor activity | 5 | 2.56E-05 | 8.67E-05 |
| G0:0003704 | specific RNA polymerase II transcription factor act | 5 | 2.96E-05 | 9.98E-05 |
| G0:0030159 | receptor signaling complex scaffold activity | 4 | 3.11E-05 | 1.04E-04 |
| G0:0004843 | ubiquitin-specific protease activity | 4 | 3.11E-05 | 1.04E-04 |
| G0:0005540 | hyaluronic acid binding | 4 | 3.11E-05 | 1.04E-04 |

| | | | | |
|------------|--|----|----------|----------|
| G0:0019904 | protein domain specific binding | 11 | 3.67E-05 | 1.22E-04 |
| G0:0004331 | fructose-2,6-bisphosphate 2-phosphatase activity | 3 | 3.75E-05 | 1.23E-04 |
| G0:0004128 | cytochrome-b5 reductase activity | 3 | 3.75E-05 | 1.23E-04 |
| G0:0043236 | laminin binding | 3 | 3.75E-05 | 1.23E-04 |
| G0:0015270 | dihydropyridine-sensitive calcium channel activity | 3 | 3.75E-05 | 1.23E-04 |
| G0:0004703 | G-protein coupled receptor kinase activity | 3 | 3.75E-05 | 1.23E-04 |
| G0:0017166 | vinculin binding | 3 | 3.75E-05 | 1.23E-04 |
| G0:0000339 | RNA cap binding | 3 | 3.75E-05 | 1.23E-04 |
| G0:0051879 | Hsp90 protein binding | 3 | 3.75E-05 | 1.23E-04 |
| G0:0004726 | non-membrane spanning protein tyrosine phosphatase | 3 | 3.75E-05 | 1.23E-04 |
| G0:0005328 | neurotransmitter:sodium symporter activity | 4 | 3.91E-05 | 1.26E-04 |
| G0:0046983 | protein dimerization activity | 15 | 4.33E-05 | 1.39E-04 |
| G0:0030983 | mismatched DNA binding | 4 | 4.85E-05 | 1.55E-04 |
| G0:0030276 | clathrin binding | 3 | 5.95E-05 | 1.88E-04 |
| G0:0050998 | nitric-oxide synthase binding | 3 | 5.95E-05 | 1.88E-04 |
| G0:0008143 | poly(A) binding | 3 | 5.95E-05 | 1.88E-04 |
| G0:0015280 | amiloride-sensitive sodium channel activity | 3 | 5.95E-05 | 1.88E-04 |
| G0:0004553 | hydrolase activity, hydrolyzing O-glycosyl compound | 7 | 7.18E-05 | 2.23E-04 |
| G0:0015459 | potassium channel regulator activity | 4 | 7.20E-05 | 2.23E-04 |
| G0:0004003 | ATP-dependent DNA helicase activity | 4 | 8.64E-05 | 2.65E-04 |
| G0:0003810 | protein-glutamine gamma-glutamyltransferase activity | 3 | 8.86E-05 | 2.68E-04 |
| G0:0030331 | estrogen receptor binding | 3 | 8.86E-05 | 2.68E-04 |
| G0:0019894 | kinesin binding | 3 | 8.86E-05 | 2.68E-04 |
| G0:0015385 | sodium:hydrogen antiporter activity | 3 | 8.86E-05 | 2.68E-04 |
| G0:0005112 | Notch binding | 3 | 8.86E-05 | 2.68E-04 |
| G0:0003841 | 1-acylglycerol-3-phosphate O-acyltransferase activity | 3 | 8.86E-05 | 2.68E-04 |
| G0:0003756 | protein disulfide isomerase activity | 3 | 8.86E-05 | 2.68E-04 |
| G0:0043621 | protein self-association | 3 | 8.86E-05 | 2.68E-04 |
| G0:0005254 | chloride channel activity | 6 | 9.08E-05 | 2.70E-04 |
| G0:0051059 | NF-kappaB binding | 4 | 1.03E-04 | 3.04E-04 |
| G0:0008509 | anion transporter activity | 8 | 1.05E-04 | 3.04E-04 |
| G0:0015204 | urea transporter activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0008510 | sodium:bicarbonate symporter activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004666 | prostaglandin-endoperoxide synthase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0015460 | transport accessory protein activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0034187 | apolipoprotein E binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0030881 | beta-2-microglobulin binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0046703 | natural killer cell lectin-like receptor binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0008160 | protein tyrosine phosphatase activator activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0003863 | 3-methyl-2-oxobutanoate dehydrogenase (2-methylpropanoate) | 2 | 1.07E-04 | 3.04E-04 |
| G0:0008269 | JAK pathway signal transduction adaptor activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0000064 | L-ornithine transporter activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0030160 | GKAP/Homer scaffold activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004145 | diamine N-acetyltransferase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0015186 | L-glutamine transporter activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0030284 | estrogen receptor activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004797 | thymidine kinase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004923 | leukemia inhibitory factor receptor activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0030957 | Tat protein binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004820 | glycine-tRNA ligase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004315 | 3-oxoacyl-[acyl-carrier protein] synthase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0017034 | Rap guanyl-nucleotide exchange factor activity | 2 | 1.07E-04 | 3.04E-04 |

| | | | | |
|------------|--|----|----------|----------|
| G0:0000701 | purine-specific mismatch base pair DNA N-glycosylase | 2 | 1.07E-04 | 3.04E-04 |
| G0:0032143 | single thymine insertion binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0003994 | aconitate hydratase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0032181 | dinucleotide repeat insertion binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0043024 | ribosomal small subunit binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0032794 | GTPase activating protein binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0015375 | glycine:sodium symporter activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0017154 | semaphorin receptor activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0030215 | semaphorin receptor binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0016316 | phosphatidylinositol-3,4-bisphosphate 4-phosphatase | 2 | 1.07E-04 | 3.04E-04 |
| G0:0034597 | phosphatidylinositol-4,5-bisphosphate 4-phosphatase | 2 | 1.07E-04 | 3.04E-04 |
| G0:0004817 | cysteine-tRNA ligase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0070064 | proline-rich region binding | 2 | 1.07E-04 | 3.04E-04 |
| G0:0008476 | protein-tyrosine sulfotransferase activity | 2 | 1.07E-04 | 3.04E-04 |
| G0:0005083 | small GTPase regulator activity | 11 | 1.12E-04 | 3.08E-04 |
| G0:0004181 | metallocarboxypeptidase activity | 4 | 1.21E-04 | 3.32E-04 |
| G0:0005262 | calcium channel activity | 6 | 1.24E-04 | 3.38E-04 |
| G0:0004303 | estradiol 17-beta-dehydrogenase activity | 3 | 1.26E-04 | 3.38E-04 |
| G0:0008191 | metalloendopeptidase inhibitor activity | 3 | 1.26E-04 | 3.38E-04 |
| G0:0005095 | GTPase inhibitor activity | 3 | 1.26E-04 | 3.38E-04 |
| G0:0048365 | Rac GTPase binding | 3 | 1.26E-04 | 3.38E-04 |
| G0:0016884 | carbon-nitrogen ligase activity, with glutamine as | 3 | 1.26E-04 | 3.38E-04 |
| G0:0001882 | nucleoside binding | 3 | 1.26E-04 | 3.38E-04 |
| G0:0005544 | calcium-dependent phospholipid binding | 4 | 1.42E-04 | 3.79E-04 |
| G0:0005520 | insulin-like growth factor binding | 4 | 1.42E-04 | 3.79E-04 |
| G0:0017111 | nucleoside-triphosphatase activity | 19 | 1.52E-04 | 4.04E-04 |
| G0:0003724 | RNA helicase activity | 4 | 1.66E-04 | 4.40E-04 |
| G0:0005080 | protein kinase C binding | 3 | 1.71E-04 | 4.50E-04 |
| G0:0003993 | acid phosphatase activity | 3 | 1.71E-04 | 4.50E-04 |
| G0:0030374 | ligand-dependent nuclear receptor transcription coa | 4 | 1.92E-04 | 5.00E-04 |
| G0:0005543 | phospholipid binding | 8 | 2.23E-04 | 5.78E-04 |
| G0:0005251 | delayed rectifier potassium channel activity | 3 | 2.27E-04 | 5.85E-04 |
| G0:0004708 | MAP kinase kinase activity | 3 | 2.27E-04 | 5.85E-04 |
| G0:0015085 | calcium ion transporter activity | 3 | 2.92E-04 | 7.39E-04 |
| G0:0000062 | acyl-CoA binding | 3 | 2.92E-04 | 7.39E-04 |
| G0:0005542 | folic acid binding | 3 | 2.92E-04 | 7.39E-04 |
| G0:0005319 | lipid transporter activity | 5 | 3.16E-04 | 7.58E-04 |
| G0:0019797 | procollagen-proline 3-dioxygenase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0001968 | fibronectin binding | 2 | 3.19E-04 | 7.58E-04 |
| G0:0003872 | 6-phosphofructokinase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0005220 | inositol 1,4,5-triphosphate-sensitive calcium-relea | 2 | 3.19E-04 | 7.58E-04 |
| G0:0030332 | cyclin binding | 2 | 3.19E-04 | 7.58E-04 |
| G0:0050785 | advanced glycation end-product receptor activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0003836 | beta-galactoside alpha-2,3-sialyltransferase activi | 2 | 3.19E-04 | 7.58E-04 |
| G0:0000104 | succinate dehydrogenase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0003987 | acetate-CoA ligase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0047372 | acylglycerol lipase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0008332 | low voltage-gated calcium channel activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0003876 | AMP deaminase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0008454 | alpha-1,3-mannosylglycoprotein 4-beta-N-acetylglucc | 2 | 3.19E-04 | 7.58E-04 |
| G0:0031702 | type 1 angiotensin receptor binding | 2 | 3.19E-04 | 7.58E-04 |
| G0:0000293 | ferric-chelate reductase activity | 2 | 3.19E-04 | 7.58E-04 |

| | | | | |
|------------|---|---|----------|-----------|
| G0:0004117 | calmodulin-dependent cyclic-nucleotide phosphodiesterase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0030346 | protein phosphatase 2B binding | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004829 | threonine-tRNA ligase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0008294 | calcium- and calmodulin-responsive adenylate cyclase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004332 | fructose-bisphosphate aldolase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0008475 | procollagen-lysine 5-dioxygenase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0015433 | peptide antigen-transporting ATPase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0042289 | MHC class II protein binding | 2 | 3.19E-04 | 7.58E-04 |
| G0:0042978 | ornithine decarboxylase activator activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0043325 | phosphatidylinositol-3,4-bisphosphate binding | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004525 | ribonuclease III activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004784 | superoxide dismutase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004422 | hypoxanthine phosphoribosyltransferase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004103 | choline kinase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004305 | ethanolamine kinase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0004937 | alpha1-adrenergic receptor activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0001758 | retinal dehydrogenase activity | 2 | 3.19E-04 | 7.58E-04 |
| G0:0008144 | drug binding | 4 | 3.26E-04 | 7.58E-04 |
| G0:0019206 | nucleoside kinase activity | 3 | 3.69E-04 | 8.50E-04 |
| G0:0032395 | MHC class II receptor activity | 3 | 3.69E-04 | 8.50E-04 |
| G0:0004835 | tubulin-tyrosine ligase activity | 3 | 3.69E-04 | 8.50E-04 |
| G0:0050699 | WW domain binding | 3 | 3.69E-04 | 8.50E-04 |
| G0:0042162 | telomeric DNA binding | 3 | 3.69E-04 | 8.50E-04 |
| G0:0005496 | steroid binding | 5 | 4.02E-04 | 9.19E-04 |
| G0:0015238 | drug transporter activity | 3 | 4.58E-04 | 0.0010395 |
| G0:0005248 | voltage-gated sodium channel activity | 3 | 4.58E-04 | 0.0010395 |
| G0:0015269 | calcium-activated potassium channel activity | 3 | 4.58E-04 | 0.0010395 |
| G0:0005247 | voltage-gated chloride channel activity | 3 | 5.60E-04 | 0.0012536 |
| G0:0015485 | cholesterol binding | 3 | 5.60E-04 | 0.0012536 |
| G0:0047115 | trans-1,2-dihydrobenzene-1,2-diol dehydrogenase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0048154 | S100 beta binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0047238 | glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-epimerase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0008095 | inositol-1,4,5-triphosphate receptor activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0050327 | testosterone 17-beta-dehydrogenase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0005062 | hematopoietin/interferon-class (D200-domain) cytokine activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0005138 | interleukin-6 receptor binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0004656 | procollagen-proline 4-dioxygenase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0042801 | polo kinase kinase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0002060 | purine binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0005536 | glucose binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0004370 | glycerol kinase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0003918 | DNA topoisomerase (ATP-hydrolyzing) activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0004748 | ribonucleoside-diphosphate reductase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0004897 | ciliary neurotrophic factor receptor activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0003896 | DNA primase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0008607 | phosphorylase kinase regulator activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0017025 | TATA-binding protein binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0004597 | peptide-aspartate beta-dioxygenase activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0019237 | centromeric DNA binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0005332 | gamma-aminobutyric acid:sodium symporter activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0003917 | DNA topoisomerase type I activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0005497 | androgen binding | 2 | 6.33E-04 | 0.0013395 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0005087 | Ran guanyl-nucleotide exchange factor activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0015180 | L-alanine transporter activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0008518 | reduced folate carrier activity | 2 | 6.33E-04 | 0.0013395 |
| G0:0016151 | nickel ion binding | 2 | 6.33E-04 | 0.0013395 |
| G0:0015467 | G-protein activated inward rectifier potassium char | 2 | 6.33E-04 | 0.0013395 |
| G0:0005003 | ephrin receptor activity | 3 | 6.74E-04 | 0.0014136 |
| G0:0016208 | AMP binding | 3 | 8.03E-04 | 0.0016711 |
| G0:0051537 | 2 iron, 2 sulfur cluster binding | 3 | 8.03E-04 | 0.0016711 |
| G0:0042393 | histone binding | 3 | 8.03E-04 | 0.0016711 |
| G0:0019905 | syntaxin binding | 3 | 8.03E-04 | 0.0016711 |
| G0:0003899 | DNA-directed RNA polymerase activity | 4 | 8.52E-04 | 0.0017679 |
| G0:0008013 | beta-catenin binding | 3 | 9.46E-04 | 0.001955 |
| G0:0032052 | bile acid binding | 2 | 0.0010474 | 0.0020745 |
| G0:0004500 | dopamine beta-monooxygenase activity | 2 | 0.0010474 | 0.0020745 |
| G0:0030618 | transforming growth factor beta receptor, pathway-s | 2 | 0.0010474 | 0.0020745 |
| G0:0015081 | sodium ion transporter activity | 2 | 0.0010474 | 0.0020745 |
| G0:0030676 | Rac guanyl-nucleotide exchange factor activity | 2 | 0.0010474 | 0.0020745 |
| G0:0005522 | profilin binding | 2 | 0.0010474 | 0.0020745 |
| G0:0005498 | sterol carrier activity | 2 | 0.0010474 | 0.0020745 |
| G0:0008266 | poly(U) binding | 2 | 0.0010474 | 0.0020745 |
| G0:0046027 | phospholipid:diacylglycerol acyltransferase activit | 2 | 0.0010474 | 0.0020745 |
| G0:0015520 | tetracycline:hydrogen antiporter activity | 2 | 0.0010474 | 0.0020745 |
| G0:0003689 | DNA clamp loader activity | 2 | 0.0010474 | 0.0020745 |
| G0:0004791 | thioredoxin-disulfide reductase activity | 2 | 0.0010474 | 0.0020745 |
| G0:0050291 | sphingosine N-acyltransferase activity | 2 | 0.0010474 | 0.0020745 |
| G0:0030976 | thiamin pyrophosphate binding | 2 | 0.0010474 | 0.0020745 |
| G0:0003923 | GPI-anchor transamidase activity | 2 | 0.0010474 | 0.0020745 |
| G0:0004704 | NF-kappaB-inducing kinase activity | 2 | 0.0010474 | 0.0020745 |
| G0:0009374 | biotin binding | 2 | 0.0010474 | 0.0020745 |
| G0:0031013 | troponin I binding | 2 | 0.0010474 | 0.0020745 |
| G0:0008353 | RNA polymerase subunit kinase activity | 2 | 0.0010474 | 0.0020745 |
| G0:0001671 | ATPase stimulator activity | 2 | 0.0010474 | 0.0020745 |
| G0:0031994 | insulin-like growth factor I binding | 2 | 0.0010474 | 0.0020745 |
| G0:0004957 | prostaglandin E receptor activity | 2 | 0.0010474 | 0.0020745 |
| G0:0019900 | kinase binding | 6 | 0.0010952 | 0.0021302 |
| G0:0008373 | sialyltransferase activity | 3 | 0.0011045 | 0.0021361 |
| G0:0005164 | tumor necrosis factor receptor binding | 3 | 0.0011045 | 0.0021361 |
| G0:0015299 | solute:hydrogen antiporter activity | 3 | 0.0011045 | 0.0021361 |
| G0:0046961 | hydrogen-transporting ATPase activity, rotational r | 3 | 0.0011045 | 0.0021361 |
| G0:0051087 | chaperone binding | 3 | 0.0011045 | 0.0021361 |
| G0:0008137 | NADH dehydrogenase (ubiquinone) activity | 4 | 0.001115 | 0.0021485 |
| G0:0008094 | DNA-dependent ATPase activity | 4 | 0.001115 | 0.0021485 |
| G0:0051536 | iron-sulfur cluster binding | 4 | 0.0015468 | 0.0029289 |
| G0:0030235 | nitric-oxide synthase regulator activity | 2 | 0.0015602 | 0.0029289 |
| G0:0017110 | nucleoside-diphosphatase activity | 2 | 0.0015602 | 0.0029289 |
| G0:0005154 | epidermal growth factor receptor binding | 2 | 0.0015602 | 0.0029289 |
| G0:0003857 | 3-hydroxyacyl-CoA dehydrogenase activity | 2 | 0.0015602 | 0.0029289 |
| G0:0045502 | dynein binding | 2 | 0.0015602 | 0.0029289 |
| G0:0030274 | LIM domain binding | 2 | 0.0015602 | 0.0029289 |
| G0:0004047 | aminomethyltransferase activity | 2 | 0.0015602 | 0.0029289 |
| G0:0015205 | nucleobase transporter activity | 2 | 0.0015602 | 0.0029289 |
| G0:0008408 | 3'-5' exonuclease activity | 3 | 0.0019014 | 0.0034833 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0019903 | protein phosphatase binding | 3 | 0.0021442 | 0.0038711 |
| G0:0004623 | phospholipase A2 activity | 3 | 0.0021442 | 0.0038711 |
| G0:0005245 | voltage-gated calcium channel activity | 3 | 0.0021442 | 0.0038711 |
| G0:0051117 | ATPase binding | 2 | 0.0021693 | 0.0038711 |
| G0:0043560 | insulin receptor substrate binding | 2 | 0.0021693 | 0.0038711 |
| G0:0004908 | interleukin-1 receptor activity | 2 | 0.0021693 | 0.0038711 |
| G0:0030151 | molybdenum ion binding | 2 | 0.0021693 | 0.0038711 |
| G0:0005546 | phosphatidylinositol-4,5-bisphosphate binding | 2 | 0.0021693 | 0.0038711 |
| G0:0003785 | actin monomer binding | 2 | 0.0021693 | 0.0038711 |
| G0:0047555 | 3',5'-cyclic-GMP phosphodiesterase activity | 2 | 0.0021693 | 0.0038711 |
| G0:0016671 | oxidoreductase activity, acting on sulfur group of | 2 | 0.0021693 | 0.0038711 |
| G0:0005123 | death receptor binding | 2 | 0.0021693 | 0.0038711 |
| G0:0004691 | cAMP-dependent protein kinase activity | 2 | 0.0021693 | 0.0038711 |
| G0:0008312 | 7S RNA binding | 2 | 0.0021693 | 0.0038711 |
| G0:0019838 | growth factor binding | 5 | 0.0027582 | 0.0048138 |
| G0:0004017 | adenylate kinase activity | 2 | 0.0028726 | 0.0049476 |
| G0:0005031 | tumor necrosis factor receptor activity | 2 | 0.0028726 | 0.0049476 |
| G0:0004551 | nucleotide diphosphatase activity | 2 | 0.0028726 | 0.0049476 |
| G0:0004579 | dolichyl-diphosphooligosaccharide-protein glycotran | 2 | 0.0028726 | 0.0049476 |
| G0:0008253 | 5'-nucleotidase activity | 2 | 0.0028726 | 0.0049476 |
| G0:0005528 | FK506 binding | 2 | 0.0028726 | 0.0049476 |
| G0:0016831 | carboxy-lyase activity | 3 | 0.0033033 | 0.0056191 |
| G0:0008080 | N-acetyltransferase activity | 4 | 0.0033076 | 0.0056208 |
| G0:0016814 | hydrolase activity, acting on carbon-nitrogen (but | 3 | 0.0036423 | 0.0060947 |
| G0:0004602 | glutathione peroxidase activity | 2 | 0.003668 | 0.0060947 |
| G0:0008158 | hedgehog receptor activity | 2 | 0.003668 | 0.0060947 |
| G0:0008195 | phosphatidate phosphatase activity | 2 | 0.003668 | 0.0060947 |
| G0:0005066 | transmembrane receptor protein tyrosine kinase sig | 2 | 0.003668 | 0.0060947 |
| G0:0030280 | structural constituent of epidermis | 2 | 0.003668 | 0.0060947 |
| G0:0005388 | calcium-transporting ATPase activity | 2 | 0.003668 | 0.0060947 |
| G0:0015198 | oligopeptide transporter activity | 2 | 0.003668 | 0.0060947 |
| G0:0004022 | alcohol dehydrogenase activity | 2 | 0.003668 | 0.0060947 |
| G0:0004935 | adrenoceptor activity | 2 | 0.003668 | 0.0060947 |
| G0:0004601 | peroxidase activity | 3 | 0.0040018 | 0.0065964 |
| G0:0008378 | galactosyltransferase activity | 3 | 0.0040018 | 0.0065964 |
| G0:0050840 | extracellular matrix binding | 2 | 0.0045536 | 0.0074185 |
| G0:0003709 | RNA polymerase III transcription factor activity | 2 | 0.0045536 | 0.0074185 |
| G0:0050431 | transforming growth factor beta binding | 2 | 0.0045536 | 0.0074185 |
| G0:0017127 | cholesterol transporter activity | 2 | 0.0045536 | 0.0074185 |
| G0:0008239 | dipeptidyl-peptidase activity | 2 | 0.0045536 | 0.0074185 |
| G0:0008271 | sulfate porter activity | 2 | 0.0045536 | 0.0074185 |
| G0:0004526 | ribonuclease P activity | 2 | 0.0045536 | 0.0074185 |
| G0:0008536 | Ran GTPase binding | 2 | 0.0045536 | 0.0074185 |
| G0:0003712 | transcription cofactor activity | 9 | 0.005482 | 0.0088005 |
| G0:0050750 | low-density lipoprotein receptor binding | 2 | 0.0055275 | 0.0088133 |
| G0:0016303 | phosphatidylinositol 3-kinase activity | 2 | 0.0055275 | 0.0088133 |
| G0:0005313 | L-glutamate transporter activity | 2 | 0.0055275 | 0.0088133 |
| G0:0004550 | nucleoside diphosphate kinase activity | 2 | 0.0055275 | 0.0088133 |
| G0:0048487 | beta-tubulin binding | 2 | 0.0055275 | 0.0088133 |
| G0:0015248 | sterol transporter activity | 2 | 0.0065876 | 0.010366 |
| G0:0016409 | palmitoyltransferase activity | 2 | 0.0065876 | 0.010366 |
| G0:0048019 | receptor antagonist activity | 2 | 0.0065876 | 0.010366 |

| | |
|--|-----------------------|
| G0:0008235 metalloexopeptidase activity | 3 0.0071187 0.0111339 |
| G0:0016251 general RNA polymerase II transcription factor acti | 3 0.0071187 0.0111339 |
| G0:0045296 cadherin binding | 2 0.0077322 0.0120242 |
| G0:0005537 mannose binding | 2 0.0077322 0.0120242 |
| G0:0005246 calcium channel regulator activity | 2 0.0077322 0.0120242 |
| G0:0043499 eukaryotic cell surface binding | 2 0.0089593 0.0124472 |
| G0:0046933 hydrogen-transporting ATP synthase activity, rotati | 2 0.0089593 0.0124472 |
| G0:0030552 cAMP binding | 2 0.0089593 0.0124472 |
| G0:0004707 MAP kinase activity | 2 0.0089593 0.0124472 |
| G0:0004033 aldo-keto reductase activity | 2 0.0102672 0.0124472 |
| G0:0000146 microfilament motor activity | 2 0.0102672 0.0124472 |
| G0:0048403 brain-derived neurotrophic factor binding | 1 0.0103422 0.0124472 |
| G0:0008120 ceramide glucosyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0043183 vascular endothelial growth factor receptor 1 bindi | 1 0.0103422 0.0124472 |
| G0:0043184 vascular endothelial growth factor receptor 2 bindi | 1 0.0103422 0.0124472 |
| G0:0045130 keratan sulfotransferase activity | 1 0.0103422 0.0124472 |
| G0:0008112 nicotinamide N-methyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0008955 peptidoglycan glycosyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0031707 endothelin A receptor binding | 1 0.0103422 0.0124472 |
| G0:0004710 MAP/ERK kinase kinase activity | 1 0.0103422 0.0124472 |
| G0:0047017 prostaglandin-F synthase activity | 1 0.0103422 0.0124472 |
| G0:0002114 interleukin-33 receptor activity | 1 0.0103422 0.0124472 |
| G0:0003955 NAD(P)H dehydrogenase (quinone) activity | 1 0.0103422 0.0124472 |
| G0:0048603 fibroblast growth factor 2 binding | 1 0.0103422 0.0124472 |
| G0:0070051 fibrinogen binding | 1 0.0103422 0.0124472 |
| G0:0070052 collagen V binding | 1 0.0103422 0.0124472 |
| G0:0003869 4-nitrophenylphosphatase activity | 1 0.0103422 0.0124472 |
| G0:0015132 prostaglandin transporter activity | 1 0.0103422 0.0124472 |
| G0:0030791 arsenite methyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0030792 methylarsonite methyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0005151 interleukin-1, Type II receptor binding | 1 0.0103422 0.0124472 |
| G0:0005018 platelet-derived growth factor alpha-receptor activ | 1 0.0103422 0.0124472 |
| G0:0004845 uracil phosphoribosyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0033791 3alpha,7alpha,12alpha-trihydroxy-5beta-cholestanoyl | 1 0.0103422 0.0124472 |
| G0:0004676 3-phosphoinositide-dependent protein kinase activit | 1 0.0103422 0.0124472 |
| G0:0033897 ribonuclease T2 activity | 1 0.0103422 0.0124472 |
| G0:0030338 CMP-N-acetylneuramate monooxygenase activity | 1 0.0103422 0.0124472 |
| G0:0030368 interleukin-17 receptor activity | 1 0.0103422 0.0124472 |
| G0:0033989 3alpha,7alpha,12alpha-trihydroxy-5beta-cholest-24-e | 1 0.0103422 0.0124472 |
| G0:0004340 glucokinase activity | 1 0.0103422 0.0124472 |
| G0:0034722 gamma-glutamyl-peptidase activity | 1 0.0103422 0.0124472 |
| G0:0047280 nicotinamide phosphoribosyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0008387 steroid 7-alpha-hydroxylase activity | 1 0.0103422 0.0124472 |
| G0:0033782 24-hydroxycholesterol 7alpha-hydroxylase activity | 1 0.0103422 0.0124472 |
| G0:0017130 poly(rC) binding | 1 0.0103422 0.0124472 |
| G0:0005163 nerve growth factor receptor binding | 1 0.0103422 0.0124472 |
| G0:0004855 xanthine oxidase activity | 1 0.0103422 0.0124472 |
| G0:0008545 JUN kinase kinase activity | 1 0.0103422 0.0124472 |
| G0:0008267 poly-glutamine tract binding | 1 0.0103422 0.0124472 |
| G0:0008349 MAP kinase kinase kinase activity | 1 0.0103422 0.0124472 |
| G0:0055105 ubiquitin-protein ligase inhibitor activity | 1 0.0103422 0.0124472 |
| G0:0001593 dopamine D4 receptor activity | 1 0.0103422 0.0124472 |

| | | | | |
|------------|--|---|-----------|-----------|
| G0:0004799 | thymidylate synthase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008111 | alpha-methylacyl-CoA racemase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0047130 | saccharopine dehydrogenase (NADP+, L-lysine-forming | 1 | 0.0103422 | 0.0124472 |
| G0:0003939 | L-idoitol 2-dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0030273 | melanin-concentrating hormone receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004617 | phosphoglycerate dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005330 | dopamine:sodium symporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004087 | carbamoyl-phosphate synthase (ammonia) activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004509 | steroid 21-monooxygenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0043221 | SMC protein binding | 1 | 0.0103422 | 0.0124472 |
| G0:0004587 | ornithine-oxo-acid transaminase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015152 | glucose-6-phosphate transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004336 | galactosylceramidase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004990 | oxytocin receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004796 | thromboxane-A synthase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0034188 | apolipoprotein A-I receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004164 | diphthine synthase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0047545 | 2-hydroxyglutarate dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0016603 | glutaminy-peptide cyclotransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0060001 | minus-end directed microfilament motor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005008 | hepatocyte growth factor receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004482 | mRNA (guanine-N7-)-methyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0030387 | fructosamine-3-kinase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0033613 | transcription activator binding | 1 | 0.0103422 | 0.0124472 |
| G0:0004347 | glucose-6-phosphate isomerase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004530 | deoxyribonuclease I activity | 1 | 0.0103422 | 0.0124472 |
| G0:0001532 | interleukin-21 receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0016263 | glycoprotein-N-acetylgalactosamine 3-beta-galactosyl | 1 | 0.0103422 | 0.0124472 |
| G0:0008398 | sterol 14-demethylase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0003826 | alpha-ketoacid dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0016536 | cyclin-dependent protein kinase 5 activator regulat | 1 | 0.0103422 | 0.0124472 |
| G0:0004921 | interleukin-11 receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0001761 | beta-alanine transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005369 | taurine:sodium symporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004159 | dihydrouracil dehydrogenase (NAD+) activity | 1 | 0.0103422 | 0.0124472 |
| G0:0017113 | dihydropyrimidine dehydrogenase (NADP+) activity | 1 | 0.0103422 | 0.0124472 |
| G0:0051011 | microtubule minus-end binding | 1 | 0.0103422 | 0.0124472 |
| G0:0017050 | D-erythro-sphingosine kinase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0031852 | mu-type opioid receptor binding | 1 | 0.0103422 | 0.0124472 |
| G0:0003844 | 1,4-alpha-glucan branching enzyme activity | 1 | 0.0103422 | 0.0124472 |
| G0:0033867 | Fas-activated serine/threonine kinase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008792 | arginine decarboxylase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0034602 | oxoglutarate dehydrogenase (NAD+) activity | 1 | 0.0103422 | 0.0124472 |
| G0:0045499 | chemorepellant activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004092 | carnitine O-acetyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004782 | sulfinioalanine decarboxylase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0032810 | sterol response element binding | 1 | 0.0103422 | 0.0124472 |
| G0:0030337 | DNA polymerase processivity factor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005309 | creatine:sodium symporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0000386 | second spliceosomal transesterification activity | 1 | 0.0103422 | 0.0124472 |
| G0:0030628 | pre-mRNA 3'-splice site binding | 1 | 0.0103422 | 0.0124472 |
| G0:0000171 | ribonuclease MRP activity | 1 | 0.0103422 | 0.0124472 |

| | |
|--|-----------------------|
| G0:0015141 succinate transporter activity | 1 0.0103422 0.0124472 |
| G0:0050576 3-keto-steroid reductase activity | 1 0.0103422 0.0124472 |
| G0:0017172 cysteine dioxygenase activity | 1 0.0103422 0.0124472 |
| G0:0051264 mono-olein transacylation activity | 1 0.0103422 0.0124472 |
| G0:0051265 diolein transacylation activity | 1 0.0103422 0.0124472 |
| G0:0004463 leukotriene-A4 hydrolase activity | 1 0.0103422 0.0124472 |
| G0:0051267 CP2 mannose-ethanolamine phosphotransferase activity | 1 0.0103422 0.0124472 |
| G0:0004420 hydroxymethylglutaryl-CoA reductase (NADPH) activity | 1 0.0103422 0.0124472 |
| G0:0016768 spermine synthase activity | 1 0.0103422 0.0124472 |
| G0:0003957 NAD(P)+ transhydrogenase (B-specific) activity | 1 0.0103422 0.0124472 |
| G0:0008750 NAD(P)+ transhydrogenase (AB-specific) activity | 1 0.0103422 0.0124472 |
| G0:0033781 cholesterol 24-hydroxylase activity | 1 0.0103422 0.0124472 |
| G0:0032500 muramyl dipeptide binding | 1 0.0103422 0.0124472 |
| G0:0004925 prolactin receptor activity | 1 0.0103422 0.0124472 |
| G0:0004134 4-alpha-glucanotransferase activity | 1 0.0103422 0.0124472 |
| G0:0004135 amylo-alpha-1,6-glucosidase activity | 1 0.0103422 0.0124472 |
| G0:0031703 type 2 angiotensin receptor binding | 1 0.0103422 0.0124472 |
| G0:0004760 serine-pyruvate transaminase activity | 1 0.0103422 0.0124472 |
| G0:0045127 N-acetylglucosamine kinase activity | 1 0.0103422 0.0124472 |
| G0:0046539 histamine N-methyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0009021 tRNA (uracil-5-)-methyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0051717 inositol-1,3,4,5-tetrakisphosphate 3-phosphatase activity | 1 0.0103422 0.0124472 |
| G0:0051800 phosphatidylinositol-3,4-bisphosphate 3-phosphatase activity | 1 0.0103422 0.0124472 |
| G0:0018112 proline racemase activity | 1 0.0103422 0.0124472 |
| G0:0004699 calcium-independent protein kinase C activity | 1 0.0103422 0.0124472 |
| G0:0042007 interleukin-18 binding | 1 0.0103422 0.0124472 |
| G0:0030899 calcium-dependent ATPase activity | 1 0.0103422 0.0124472 |
| G0:0047323 [3-methyl-2-oxobutanoate dehydrogenase (lipoamide)] activity | 1 0.0103422 0.0124472 |
| G0:0004883 glucocorticoid receptor activity | 1 0.0103422 0.0124472 |
| G0:0005334 norepinephrine:sodium symporter activity | 1 0.0103422 0.0124472 |
| G0:0016524 latrotoxin receptor activity | 1 0.0103422 0.0124472 |
| G0:0008747 N-acetylneuraminatase lyase activity | 1 0.0103422 0.0124472 |
| G0:0034988 Fc-gamma receptor I complex binding | 1 0.0103422 0.0124472 |
| G0:0034989 GTP-Ral binding | 1 0.0103422 0.0124472 |
| G0:0047936 glucose 1-dehydrogenase activity | 1 0.0103422 0.0124472 |
| G0:0019782 ISG15 activating enzyme activity | 1 0.0103422 0.0124472 |
| G0:0016786 selenotransferase activity | 1 0.0103422 0.0124472 |
| G0:0055100 adiponectin binding | 1 0.0103422 0.0124472 |
| G0:0042610 CD8 receptor binding | 1 0.0103422 0.0124472 |
| G0:0008263 pyrimidine-specific mismatch base pair DNA N-glycosylase activity | 1 0.0103422 0.0124472 |
| G0:0047865 dimethylglycine dehydrogenase activity | 1 0.0103422 0.0124472 |
| G0:0000225 N-acetylglucosaminylphosphatidylinositol deacetylase activity | 1 0.0103422 0.0124472 |
| G0:0030884 exogenous lipid antigen binding | 1 0.0103422 0.0124472 |
| G0:0035173 histone kinase activity | 1 0.0103422 0.0124472 |
| G0:0003952 NAD+ synthase (glutamine-hydrolyzing) activity | 1 0.0103422 0.0124472 |
| G0:0008812 choline dehydrogenase activity | 1 0.0103422 0.0124472 |
| G0:0004567 beta-mannosidase activity | 1 0.0103422 0.0124472 |
| G0:0008924 malate dehydrogenase (acceptor) activity | 1 0.0103422 0.0124472 |
| G0:0004044 amidophosphoribosyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0004140 dephospho-CoA kinase activity | 1 0.0103422 0.0124472 |
| G0:0004595 pantetheine-phosphate adenylyltransferase activity | 1 0.0103422 0.0124472 |
| G0:0004736 pyruvate carboxylase activity | 1 0.0103422 0.0124472 |

| | | | | |
|------------|--|---|-----------|-----------|
| G0:0003717 | RNA polymerase II transcription termination factor | 1 | 0.0103422 | 0.0124472 |
| G0:0019871 | sodium channel inhibitor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004334 | fumarylacetoacetase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005463 | UDP-N-acetylgalactosamine transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008115 | sarcosine oxidase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0050031 | L-pipecolate oxidase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0017125 | deoxycytidyl transferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004900 | erythropoietin receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004310 | farnesyl-diphosphate farnesyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0050809 | diazepam binding | 1 | 0.0103422 | 0.0124472 |
| G0:0005335 | serotonin:sodium symporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015222 | serotonin transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008534 | oxidized purine base lesion DNA N-glycosylase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015143 | urate transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0047933 | glucose-1,6-bisphosphate synthase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0033814 | propanoyl-CoA C-acyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015234 | thiamin transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015019 | heparan-alpha-glucosaminide N-acetyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0003983 | UTP:glucose-1-phosphate uridylyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004043 | L-aminoadipate-semialdehyde dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004577 | N-acetylglucosaminyl diphosphodolichol N-acetylglucosaminyl transferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0060072 | large conductance calcium-activated potassium channel activity | 1 | 0.0103422 | 0.0124472 |
| G0:0003882 | CDP-diacylglycerol-serine O-phosphatidyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0018467 | formaldehyde dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0051903 | S-(hydroxymethyl)glutathione dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004637 | phosphoribosylamine-glycine ligase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004641 | phosphoribosylformylglycinamide cyclo-ligase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004644 | phosphoribosylglycinamide formyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0043539 | protein serine/threonine kinase activator activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005384 | manganese ion transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015086 | cadmium ion transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015093 | ferrous iron transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015094 | lead ion transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015099 | nickel ion transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004362 | glutathione-disulfide reductase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015389 | pyrimidine- and adenine-specific:sodium symporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015390 | purine-specific nucleoside:sodium symporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008251 | tRNA specific adenosine deaminase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004122 | cystathionine beta-synthase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008817 | cob(I)yrinic acid a,c-diamide adenosyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005171 | hepatocyte growth factor receptor binding | 1 | 0.0103422 | 0.0124472 |
| G0:0008478 | pyridoxal kinase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0003860 | 3-hydroxyisobutyryl-CoA hydrolase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015386 | potassium:hydrogen antiporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0030347 | syntaxin-2 binding | 1 | 0.0103422 | 0.0124472 |
| G0:0030348 | syntaxin-3 binding | 1 | 0.0103422 | 0.0124472 |
| G0:0008456 | alpha-N-acetylgalactosaminidase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004313 | [acyl-carrier protein] S-acetyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004316 | 3-oxoacyl-[acyl-carrier protein] reductase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004317 | 3-hydroxypalmitoyl-[acyl-carrier protein] dehydratase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004319 | enoyl-[acyl-carrier protein] reductase (NADPH, B-specific) | 1 | 0.0103422 | 0.0124472 |
| G0:0051787 | misfolded protein binding | 1 | 0.0103422 | 0.0124472 |

| | | | | |
|------------|---|----|-----------|-----------|
| G0:0045545 | syndecan binding | 1 | 0.0103422 | 0.0124472 |
| G0:0004034 | aldose 1-epimerase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0043395 | heparan sulfate proteoglycan binding | 1 | 0.0103422 | 0.0124472 |
| G0:0032089 | NACHT domain binding | 1 | 0.0103422 | 0.0124472 |
| G0:0034046 | poly(rG) binding | 1 | 0.0103422 | 0.0124472 |
| G0:0017064 | fatty acid amide hydrolase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004493 | methylmalonyl-CoA epimerase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005314 | high-affinity glutamate transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008480 | sarcosine dehydrogenase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0045134 | uridine-diphosphatase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0008821 | crossover junction endodeoxyribonuclease activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004810 | tRNA adenylyltransferase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004808 | tRNA (5-methylaminomethyl-2-thiouridylate)-methyltr | 1 | 0.0103422 | 0.0124472 |
| G0:0004632 | phosphopantothenate--cysteine ligase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0005290 | L-histidine transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0015182 | L-asparagine transporter activity | 1 | 0.0103422 | 0.0124472 |
| G0:0031435 | mitogen-activated protein kinase kinase kinase bind | 1 | 0.0103422 | 0.0124472 |
| G0:0004513 | neolactotetraosylceramide alpha-2,3-sialyltransfera | 1 | 0.0103422 | 0.0124472 |
| G0:0047291 | lactosylceramide alpha-2,3-sialyltransferase activi | 1 | 0.0103422 | 0.0124472 |
| G0:0050512 | lactosylceramide 4-alpha-galactosyltransferase acti | 1 | 0.0103422 | 0.0124472 |
| G0:0001599 | endothelin-A receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0003874 | 6-pyruvoyltetrahydropterin synthase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0004409 | homoaconitate hydratase activity | 1 | 0.0103422 | 0.0124472 |
| G0:0030379 | neurotensin receptor activity, non-G-protein couple | 1 | 0.0103422 | 0.0124472 |
| G0:0010465 | nerve growth factor receptor activity | 1 | 0.0103422 | 0.0124472 |
| G0:0016493 | C-C chemokine receptor activity | 2 | 0.011654 | 0.0135321 |
| G0:0042809 | vitamin D receptor binding | 2 | 0.0146573 | 0.0168566 |
| G0:0016780 | phosphotransferase activity, for other substituted | 2 | 0.0146573 | 0.0168566 |
| G0:0015175 | neutral amino acid transporter activity | 2 | 0.0146573 | 0.0168566 |
| G0:0005242 | inward rectifier potassium channel activity | 2 | 0.0146573 | 0.0168566 |
| G0:0004888 | transmembrane receptor activity | 22 | 0.0149582 | 0.0171568 |
| G0:0030169 | low-density lipoprotein binding | 2 | 0.0162704 | 0.0186205 |
| G0:0005234 | glutamate-gated ion channel activity | 2 | 0.0162704 | 0.0186205 |
| G0:0004896 | hematopoietin/interferon-class (D200-domain) cytoki | 3 | 0.0176371 | 0.0201444 |
| G0:0005501 | retinoid binding | 2 | 0.0179555 | 0.0204539 |
| G0:0004298 | threonine endopeptidase activity | 2 | 0.0179555 | 0.0204539 |
| G0:0005484 | SNAP receptor activity | 2 | 0.0179555 | 0.0204539 |
| G0:0003711 | transcriptional elongation regulator activity | 2 | 0.0179555 | 0.0204539 |
| G0:0047006 | 20-alpha-hydroxysteroid dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0047042 | 3-alpha-hydroxysteroid dehydrogenase (B-specific) a | 1 | 0.0205774 | 0.0208804 |
| G0:0004823 | leucine-tRNA ligase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0048155 | S100 alpha binding | 1 | 0.0205774 | 0.0208804 |
| G0:0047237 | glucuronylgalactosylproteoglycan 4-beta-N-acetylga | 1 | 0.0205774 | 0.0208804 |
| G0:0003953 | NAD+ nucleosidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0050473 | arachidonate 15-lipoxygenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0019870 | potassium channel inhibitor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008106 | alcohol dehydrogenase (NADP+) activity | 1 | 0.0205774 | 0.0208804 |
| G0:0048156 | tau protein binding | 1 | 0.0205774 | 0.0208804 |
| G0:0005006 | epidermal growth factor receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008379 | thioredoxin peroxidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0003835 | beta-galactoside alpha-2,6-sialyltransferase activi | 1 | 0.0205774 | 0.0208804 |
| G0:0047026 | 3-alpha-hydroxysteroid dehydrogenase (A-specific) a | 1 | 0.0205774 | 0.0208804 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0005353 | fructose transporter activity | 1 | 0.0205774 | 0.0208804 |
| G0:0003868 | 4-hydroxyphenylpyruvate dioxygenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004167 | dopachrome isomerase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008177 | succinate dehydrogenase (ubiquinone) activity | 1 | 0.0205774 | 0.0208804 |
| G0:0033883 | pyridoxal phosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0005229 | intracellular calcium activated chloride channel ac | 1 | 0.0205774 | 0.0208804 |
| G0:0042624 | ATPase activity, uncoupled | 1 | 0.0205774 | 0.0208804 |
| G0:0004019 | adenylosuccinate synthase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0045029 | UDP-activated nucleotide receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0017163 | negative regulator of basal transcription activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008281 | sulfonylurea receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004368 | glycerol-3-phosphate dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004063 | aryldialkylphosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0042903 | tubulin deacetylase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004947 | bradykinin receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0030275 | LRR domain binding | 1 | 0.0205774 | 0.0208804 |
| G0:0008061 | chitin binding | 1 | 0.0205774 | 0.0208804 |
| G0:0051371 | muscle alpha-actinin binding | 1 | 0.0205774 | 0.0208804 |
| G0:0031593 | polyubiquitin binding | 1 | 0.0205774 | 0.0208804 |
| G0:0008396 | oxysterol 7-alpha-hydroxylase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0030144 | alpha-1,6-mannosyl-glycoprotein 6-beta-N-acetylgluc | 1 | 0.0205774 | 0.0208804 |
| G0:0004854 | xanthine dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004677 | DNA-dependent protein kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004807 | triose-phosphate isomerase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004667 | prostaglandin-D synthase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004392 | heme oxygenase (decyclizing) activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004998 | transferrin receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0003827 | alpha-1,3-mannosylglycoprotein 2-beta-N-acetylgluc | 1 | 0.0205774 | 0.0208804 |
| G0:0046922 | peptide-O-fucosyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0047131 | saccharopine dehydrogenase (NAD+, L-glutamate-formi | 1 | 0.0205774 | 0.0208804 |
| G0:0047749 | cholestanetriol 26-monooxygenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0000150 | recombinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0047522 | 15-oxoprostaglandin 13-oxidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008970 | phospholipase A1 activity | 1 | 0.0205774 | 0.0208804 |
| G0:0034736 | cholesterol O-acyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0034737 | ergosterol O-acyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0034738 | lanosterol O-acyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004816 | asparagine-tRNA ligase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004348 | glucosylceramidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0070095 | fructose-6-phosphate binding | 1 | 0.0205774 | 0.0208804 |
| G0:0032038 | myosin II heavy chain binding | 1 | 0.0205774 | 0.0208804 |
| G0:0050613 | delta14-sterol reductase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0046592 | polyamine oxidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0015254 | glycerol channel activity | 1 | 0.0205774 | 0.0208804 |
| G0:0030349 | syntaxin-13 binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004365 | glyceraldehyde-3-phosphate dehydrogenase (phosphory | 1 | 0.0205774 | 0.0208804 |
| G0:0050544 | arachidonic acid binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004421 | hydroxymethylglutaryl-CoA synthase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004342 | glucosamine-6-phosphate deaminase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0003845 | 11-beta-hydroxysteroid dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004560 | alpha-L-fucosidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004174 | electron-transferring-flavoprotein dehydrogenase ac | 1 | 0.0205774 | 0.0208804 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0004915 | interleukin-6 receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0045509 | interleukin-27 receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0047696 | beta-adrenergic receptor kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004158 | dihydroorotate oxidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004373 | glycogen (starch) synthase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004743 | pyruvate kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008481 | sphinganine kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008327 | methyl-CpG binding | 1 | 0.0205774 | 0.0208804 |
| G0:0032090 | Pyrin domain binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004084 | branched-chain-amino-acid transaminase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008599 | protein phosphatase type 1 regulator activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004352 | glutamate dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004353 | glutamate dehydrogenase [NAD(P)+] activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008781 | N-acylneuraminate cytidyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0016167 | glial cell line-derived neurotrophic factor receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004379 | glycylpeptide N-tetradecanoyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004466 | long-chain-acyl-CoA dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004485 | methylcrotonoyl-CoA carboxylase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0001965 | G-protein alpha-subunit binding | 1 | 0.0205774 | 0.0208804 |
| G0:0003963 | RNA-3'-phosphate cyclase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004766 | spermidine synthase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0000403 | Y-form DNA binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004658 | propionyl-CoA carboxylase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004020 | adenylylsulfate kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004781 | sulfate adenylyltransferase (ATP) activity | 1 | 0.0205774 | 0.0208804 |
| G0:0019826 | oxygen sensor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004996 | thyroid-stimulating hormone receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0010698 | acetyltransferase activator activity | 1 | 0.0205774 | 0.0208804 |
| G0:0009384 | N-acylmannosamine kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0015056 | corticotrophin-releasing factor receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008511 | sodium:potassium:chloride symporter activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004438 | phosphatidylinositol-3-phosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0016314 | phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0031386 | protein tag | 1 | 0.0205774 | 0.0208804 |
| G0:0003943 | N-acetylgalactosamine-4-sulfatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008147 | structural constituent of bone | 1 | 0.0205774 | 0.0208804 |
| G0:0008431 | vitamin E binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004818 | glutamate-tRNA ligase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0016312 | inositol bisphosphate phosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0031995 | insulin-like growth factor II binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004723 | calcium-dependent protein serine/threonine phosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004109 | coproporphyrinogen oxidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004345 | glucose-6-phosphate 1-dehydrogenase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0017057 | 6-phosphogluconolactonase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0016404 | 15-hydroxyprostaglandin dehydrogenase (NAD+) activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004572 | mannosyl-oligosaccharide 1,3-1,6-alpha-mannosidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0042609 | CD4 receptor binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004909 | interleukin-1, Type I, activating receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0005093 | Rab GDP-dissociation inhibitor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0003884 | D-amino-acid oxidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004516 | nicotinate phosphoribosyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004537 | caspase-activated deoxyribonuclease activity | 1 | 0.0205774 | 0.0208804 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0004119 | cGMP-inhibited cyclic-nucleotide phosphodiesterase | 1 | 0.0205774 | 0.0208804 |
| G0:0031698 | beta-2 adrenergic receptor binding | 1 | 0.0205774 | 0.0208804 |
| G0:0050815 | phosphoserine binding | 1 | 0.0205774 | 0.0208804 |
| G0:0050816 | phosphothreonine binding | 1 | 0.0205774 | 0.0208804 |
| G0:0070063 | RNA polymerase binding | 1 | 0.0205774 | 0.0208804 |
| G0:0003875 | ADP-ribosylarginine hydrolase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0033130 | acetylcholine receptor binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004419 | hydroxymethylglutaryl-CoA lyase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004991 | parathyroid hormone receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004882 | androgen receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008260 | 3-oxoacid CoA-transferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0030158 | protein xylosyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0035254 | glutamate receptor binding | 1 | 0.0205774 | 0.0208804 |
| G0:0000827 | inositol 1,3,4,5,6-pentakisphosphate kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0000832 | inositol hexakisphosphate 5-kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0033857 | diphosphoinositol-pentakisphosphate kinase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0042328 | heparan sulfate N-acetylglucosaminyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0050509 | N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0005146 | leukemia inhibitory factor receptor binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004741 | [pyruvate dehydrogenase (lipoamide)] phosphatase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0000247 | C-8 sterol isomerase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0047750 | cholestenol delta-isomerase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004771 | sterol esterase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0034452 | dynactin binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004356 | glutamate-ammonia ligase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004314 | [acyl-carrier protein] S-malonyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004320 | oleoyl-[acyl-carrier protein] hydrolase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0016422 | mRNA (2'-O-methyladenosine-N6-)-methyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0005137 | interleukin-5 receptor binding | 1 | 0.0205774 | 0.0208804 |
| G0:0003883 | CTP synthase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0033842 | N-acetyl-beta-glucosaminyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0005019 | platelet-derived growth factor beta-receptor activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004825 | methionine-tRNA ligase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004040 | amidase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0008523 | sodium-dependent multivitamin transporter activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004021 | alanine transaminase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0004662 | CAAX-protein geranylgeranyltransferase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0070182 | DNA polymerase binding | 1 | 0.0205774 | 0.0208804 |
| G0:0004066 | asparagine synthase (glutamine-hydrolyzing) activity | 1 | 0.0205774 | 0.0208804 |
| G0:0030272 | 5-formyltetrahydrofolate cyclo-ligase activity | 1 | 0.0205774 | 0.0208804 |
| G0:0046980 | tapasin binding | 1 | 0.0205774 | 0.0208804 |
| G0:0008047 | enzyme activator activity | 8 | 0.0250343 | 0.0241462 |
| G0:0043498 | cell surface binding | 2 | 0.0253833 | 0.0244418 |
| G0:0050839 | cell adhesion molecule binding | 2 | 0.0274041 | 0.0263287 |
| G0:0016810 | hydrolase activity, acting on carbon-nitrogen (but not ester) bonds | 4 | 0.0278273 | 0.0266807 |
| G0:0004864 | protein phosphatase inhibitor activity | 2 | 0.0294873 | 0.0278996 |
| G0:0045294 | alpha-catenin binding | 1 | 0.0307068 | 0.0278996 |
| G0:0005030 | neurotrophin receptor activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004322 | ferroxidase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0034450 | ubiquitin-ubiquitin ligase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0031708 | endothelin B receptor binding | 1 | 0.0307068 | 0.0278996 |
| G0:0030297 | transmembrane receptor protein tyrosine kinase activity | 1 | 0.0307068 | 0.0278996 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0047045 | testosterone 17-beta-dehydrogenase (NADP+) activity | 1 | 0.0307068 | 0.0278996 |
| G0:0005010 | insulin-like growth factor receptor activity | 1 | 0.0307068 | 0.0278996 |
| G0:0043394 | proteoglycan binding | 1 | 0.0307068 | 0.0278996 |
| G0:0004465 | lipoprotein lipase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004802 | transketolase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004064 | arylesterase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0008184 | glycogen phosphorylase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0005176 | ErbB-2 class receptor binding | 1 | 0.0307068 | 0.0278996 |
| G0:0035005 | phosphatidylinositol-4-phosphate 3-kinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0043295 | glutathione binding | 1 | 0.0307068 | 0.0278996 |
| G0:0005148 | prolactin receptor binding | 1 | 0.0307068 | 0.0278996 |
| G0:0003960 | NADPH:quinone reductase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0005049 | nuclear export signal receptor activity | 1 | 0.0307068 | 0.0278996 |
| G0:0008401 | retinoic acid 4-hydroxylase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0030548 | acetylcholine receptor regulator activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004616 | phosphogluconate dehydrogenase (decarboxylating) ac | 1 | 0.0307068 | 0.0278996 |
| G0:0003985 | acetyl-CoA C-acetyltransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004706 | JUN kinase kinase kinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0043515 | kinetochore binding | 1 | 0.0307068 | 0.0278996 |
| G0:0004705 | JUN kinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004758 | serine C-palmitoyltransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0046978 | TAP1 binding | 1 | 0.0307068 | 0.0278996 |
| G0:0046979 | TAP2 binding | 1 | 0.0307068 | 0.0278996 |
| G0:0004449 | isocitrate dehydrogenase (NAD+) activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004566 | beta-glucuronidase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0019215 | intermediate filament binding | 1 | 0.0307068 | 0.0278996 |
| G0:0050220 | prostaglandin-E synthase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0032266 | phosphatidylinositol 3-phosphate binding | 1 | 0.0307068 | 0.0278996 |
| G0:0003910 | DNA ligase (ATP) activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004591 | oxoglutarate dehydrogenase (succinyl-transferring) | 1 | 0.0307068 | 0.0278996 |
| G0:0030023 | extracellular matrix constituent conferring elastic | 1 | 0.0307068 | 0.0278996 |
| G0:0008107 | galactoside 2-alpha-L-fucosyltransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0051010 | microtubule plus-end binding | 1 | 0.0307068 | 0.0278996 |
| G0:0015137 | citrate transporter activity | 1 | 0.0307068 | 0.0278996 |
| G0:0031014 | troponin T binding | 1 | 0.0307068 | 0.0278996 |
| G0:0008339 | MP kinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0042808 | neuronal Cdc2-like kinase binding | 1 | 0.0307068 | 0.0278996 |
| G0:0008453 | alanine-glyoxylate transaminase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0032139 | dinucleotide insertion or deletion binding | 1 | 0.0307068 | 0.0278996 |
| G0:0043125 | ErbB-3 class receptor binding | 1 | 0.0307068 | 0.0278996 |
| G0:0043559 | insulin binding | 1 | 0.0307068 | 0.0278996 |
| G0:0046582 | Rap GTPase activator activity | 1 | 0.0307068 | 0.0278996 |
| G0:0005315 | inorganic phosphate transporter activity | 1 | 0.0307068 | 0.0278996 |
| G0:0047961 | glycine N-acyltransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0032183 | SUMO binding | 1 | 0.0307068 | 0.0278996 |
| G0:0003701 | RNA polymerase I transcription factor activity | 1 | 0.0307068 | 0.0278996 |
| G0:0043138 | 3' to 5' DNA helicase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0048038 | quinone binding | 1 | 0.0307068 | 0.0278996 |
| G0:0004366 | glycerol-3-phosphate 0-acyltransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0005078 | MAP-kinase scaffold activity | 1 | 0.0307068 | 0.0278996 |
| G0:0016309 | 1-phosphatidylinositol-5-phosphate 4-kinase activit | 1 | 0.0307068 | 0.0278996 |
| G0:0015183 | L-aspartate transporter activity | 1 | 0.0307068 | 0.0278996 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0004614 | phosphoglucomutase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0017160 | Ral GTPase binding | 1 | 0.0307068 | 0.0278996 |
| G0:0015220 | choline transporter activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004013 | adenosylhomocysteinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0017147 | Wnt-protein binding | 1 | 0.0307068 | 0.0278996 |
| G0:0050508 | glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-a | 1 | 0.0307068 | 0.0278996 |
| G0:0032549 | ribonucleoside binding | 1 | 0.0307068 | 0.0278996 |
| G0:0005280 | hydrogen:amino acid symporter activity | 1 | 0.0307068 | 0.0278996 |
| G0:0015193 | L-proline transporter activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004556 | alpha-amylase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0015038 | glutathione disulfide oxidoreductase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0008242 | omega peptidase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0051019 | mitogen-activated protein kinase binding | 1 | 0.0307068 | 0.0278996 |
| G0:0008140 | cAMP response element binding protein binding | 1 | 0.0307068 | 0.0278996 |
| G0:0008384 | IkappaB kinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004769 | steroid delta-isomerase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0047756 | chondroitin 4-sulfotransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0031177 | phosphopantetheine binding | 1 | 0.0307068 | 0.0278996 |
| G0:0004992 | platelet activating factor receptor activity | 1 | 0.0307068 | 0.0278996 |
| G0:0004800 | thyroxine 5'-deiodinase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0017162 | aryl hydrocarbon receptor binding | 1 | 0.0307068 | 0.0278996 |
| G0:0043533 | inositol 1,3,4,5 tetrakisphosphate binding | 1 | 0.0307068 | 0.0278996 |
| G0:0051880 | G-quadruplex DNA binding | 1 | 0.0307068 | 0.0278996 |
| G0:0004060 | arylamine N-acetyltransferase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0016155 | formyltetrahydrofolate dehydrogenase activity | 1 | 0.0307068 | 0.0278996 |
| G0:0005026 | transforming growth factor beta receptor activity, | 1 | 0.0307068 | 0.0278996 |
| G0:0045159 | myosin II binding | 1 | 0.0307068 | 0.0278996 |
| G0:0003705 | RNA polymerase II transcription factor activity, er | 2 | 0.0338351 | 0.0297873 |
| G0:0005548 | phospholipid transporter activity | 2 | 0.0360967 | 0.0317405 |
| G0:0045028 | purinergic nucleotide receptor activity, G-protein | 2 | 0.0384149 | 0.0337158 |
| G0:0019902 | phosphatase binding | 2 | 0.0384149 | 0.0337158 |
| G0:0016758 | transferase activity, transferring hexosyl groups | 5 | 0.0385434 | 0.0337827 |
| G0:0015271 | outward rectifier potassium channel activity | 1 | 0.0407315 | 0.0340517 |
| G0:0048027 | mRNA 5'-UTR binding | 1 | 0.0407315 | 0.0340517 |
| G0:0001784 | phosphotyrosine binding | 1 | 0.0407315 | 0.0340517 |
| G0:0005432 | calcium:sodium antiporter activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004694 | eukaryotic translation initiation factor 2alpha kir | 1 | 0.0407315 | 0.0340517 |
| G0:0003997 | acyl-CoA oxidase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0003886 | DNA (cytosine-5-)-methyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004032 | aldehyde reductase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004406 | H3/H4 histone acetyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0005499 | vitamin D binding | 1 | 0.0407315 | 0.0340517 |
| G0:0003846 | 2-acylglycerol 0-acyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004144 | diacylglycerol 0-acyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0070061 | fructose binding | 1 | 0.0407315 | 0.0340517 |
| G0:0001972 | retinoic acid binding | 1 | 0.0407315 | 0.0340517 |
| G0:0047184 | 1-acylglycerophosphocholine 0-acyltransferase activ | 1 | 0.0407315 | 0.0340517 |
| G0:0015379 | potassium:chloride symporter activity | 1 | 0.0407315 | 0.0340517 |
| G0:0003945 | N-acetyllactosamine synthase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004157 | dihydropyrimidinase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0032138 | single base insertion or deletion binding | 1 | 0.0407315 | 0.0340517 |
| G0:0008853 | exodeoxyribonuclease III activity | 1 | 0.0407315 | 0.0340517 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0046923 | ER retention sequence binding | 1 | 0.0407315 | 0.0340517 |
| G0:0035259 | glucocorticoid receptor binding | 1 | 0.0407315 | 0.0340517 |
| G0:0035014 | phosphoinositide 3-kinase regulator activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004308 | exo-alpha-sialidase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0015226 | carnitine transporter activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004965 | GABA-B receptor activity | 1 | 0.0407315 | 0.0340517 |
| G0:0030172 | troponin C binding | 1 | 0.0407315 | 0.0340517 |
| G0:0004594 | pantothenate kinase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0017070 | U6 snRNA binding | 1 | 0.0407315 | 0.0340517 |
| G0:0003988 | acetyl-CoA C-acyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0050510 | N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronidase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004689 | phosphorylase kinase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0003828 | alpha-N-acetylneuraminase alpha-2,8-sialyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0015347 | sodium-independent organic anion transporter activity | 1 | 0.0407315 | 0.0340517 |
| G0:0015087 | cobalt ion transporter activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004828 | serine-tRNA ligase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0043014 | alpha-tubulin binding | 1 | 0.0407315 | 0.0340517 |
| G0:0017128 | phospholipid scramblase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0016595 | glutamate binding | 1 | 0.0407315 | 0.0340517 |
| G0:0004528 | phosphodiesterase I activity | 1 | 0.0407315 | 0.0340517 |
| G0:0047429 | nucleoside-triphosphate diphosphatase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0008553 | hydrogen-exporting ATPase activity, phosphorylative | 1 | 0.0407315 | 0.0340517 |
| G0:0005381 | iron ion transporter activity | 1 | 0.0407315 | 0.0340517 |
| G0:0004095 | carnitine O-palmitoyltransferase activity | 1 | 0.0407315 | 0.0340517 |
| G0:0031267 | small GTPase binding | 3 | 0.0430845 | 0.0359455 |
| G0:0019825 | oxygen binding | 2 | 0.0456947 | 0.0380495 |
| G0:0004981 | muscarinic acetylcholine receptor activity | 1 | 0.0506525 | 0.0406098 |
| G0:0005219 | ryanodine-sensitive calcium-release channel activity | 1 | 0.0506525 | 0.0406098 |
| G0:0008035 | high-density lipoprotein binding | 1 | 0.0506525 | 0.0406098 |
| G0:0030197 | extracellular matrix constituent, lubricant activity | 1 | 0.0506525 | 0.0406098 |
| G0:0001517 | N-acetylglucosamine 6-O-sulfotransferase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0005131 | growth hormone receptor binding | 1 | 0.0506525 | 0.0406098 |
| G0:0004652 | polynucleotide adenylyltransferase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0001515 | opioid peptide activity | 1 | 0.0506525 | 0.0406098 |
| G0:0005000 | vasopressin receptor activity | 1 | 0.0506525 | 0.0406098 |
| G0:0004046 | aminoacylase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0004185 | serine carboxypeptidase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0004749 | ribose phosphate diphosphokinase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0003956 | NAD(P)+-protein-arginine ADP-ribosyltransferase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0032407 | MutSalpha complex binding | 1 | 0.0506525 | 0.0406098 |
| G0:0034235 | GPI anchor binding | 1 | 0.0506525 | 0.0406098 |
| G0:0016174 | NAD(P)H oxidase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0019863 | IgE binding | 1 | 0.0506525 | 0.0406098 |
| G0:0017056 | structural constituent of nuclear pore | 1 | 0.0506525 | 0.0406098 |
| G0:0008967 | phosphoglycolate phosphatase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0017089 | glycolipid transporter activity | 1 | 0.0506525 | 0.0406098 |
| G0:0008504 | monoamine transporter activity | 1 | 0.0506525 | 0.0406098 |
| G0:0004024 | alcohol dehydrogenase activity, zinc-dependent | 1 | 0.0506525 | 0.0406098 |
| G0:0008048 | calcium sensitive guanylate cyclase activator activity | 1 | 0.0506525 | 0.0406098 |
| G0:0004459 | L-lactate dehydrogenase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0004668 | protein-arginine deiminase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0008526 | phosphatidylinositol transporter activity | 1 | 0.0506525 | 0.0406098 |

| | | | | |
|------------|--|---|-----------|-----------|
| G0:0015187 | glycine transporter activity | 1 | 0.0506525 | 0.0406098 |
| G0:0008517 | folic acid transporter activity | 1 | 0.0506525 | 0.0406098 |
| G0:0005005 | transmembrane-ephrin receptor activity | 1 | 0.0506525 | 0.0406098 |
| G0:0050733 | RS domain binding | 1 | 0.0506525 | 0.0406098 |
| G0:0004826 | phenylalanine-tRNA ligase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0001537 | N-acetylgalactosamine 4-O-sulfotransferase activity | 1 | 0.0506525 | 0.0406098 |
| G0:0017176 | phosphatidylinositol N-acetylglucosaminyltransferase | 1 | 0.0506525 | 0.0406098 |
| G0:0031403 | lithium ion binding | 1 | 0.0506525 | 0.0406098 |
| G0:0017049 | GTP-Rho binding | 1 | 0.0506525 | 0.0406098 |
| G0:0048406 | nerve growth factor binding | 1 | 0.0506525 | 0.0406098 |
| G0:0008375 | acetylglucosaminyltransferase activity | 2 | 0.0588318 | 0.046931 |
| G0:0030506 | ankyrin binding | 1 | 0.0604709 | 0.0471245 |
| G0:0016165 | lipoxygenase activity | 1 | 0.0604709 | 0.0471245 |
| G0:0004396 | hexokinase activity | 1 | 0.0604709 | 0.0471245 |
| G0:0004035 | alkaline phosphatase activity | 1 | 0.0604709 | 0.0471245 |
| G0:0001786 | phosphatidylserine binding | 1 | 0.0604709 | 0.0471245 |
| G0:0016565 | general transcriptional repressor activity | 1 | 0.0604709 | 0.0471245 |
| G0:0046965 | retinoid X receptor binding | 1 | 0.0604709 | 0.0471245 |
| G0:0016944 | RNA polymerase II transcription elongation factor ϵ | 1 | 0.0604709 | 0.0471245 |
| G0:0004499 | dimethylaniline monooxygenase (N-oxide-forming) act | 1 | 0.0604709 | 0.0471245 |
| G0:0030898 | actin-dependent ATPase activity | 1 | 0.0604709 | 0.0471245 |
| G0:0005025 | transforming growth factor beta receptor activity, | 1 | 0.0604709 | 0.0471245 |
| G0:0008494 | translation activator activity | 1 | 0.0604709 | 0.0471245 |
| G0:0017080 | sodium channel regulator activity | 1 | 0.0604709 | 0.0471245 |
| G0:0015279 | store-operated calcium channel activity | 1 | 0.0604709 | 0.0471245 |
| G0:0004969 | histamine receptor activity | 1 | 0.0604709 | 0.0471245 |
| G0:0004559 | alpha-mannosidase activity | 1 | 0.0604709 | 0.0471245 |
| G0:0043548 | phosphoinositide 3-kinase binding | 1 | 0.0604709 | 0.0471245 |
| G0:0004300 | enoyl-CoA hydratase activity | 1 | 0.0604709 | 0.0471245 |
| G0:0005152 | interleukin-1 receptor antagonist activity | 1 | 0.0604709 | 0.0471245 |
| G0:0008159 | positive transcription elongation factor activity | 1 | 0.0604709 | 0.0471245 |
| G0:0005375 | copper ion transporter activity | 1 | 0.0604709 | 0.0471245 |
| G0:0031490 | chromatin DNA binding | 1 | 0.0604709 | 0.0471245 |
| G0:0005092 | GDP-dissociation inhibitor activity | 1 | 0.0604709 | 0.0471245 |
| G0:0050656 | 3'-phosphoadenosine 5'-phosphosulfate binding | 1 | 0.0604709 | 0.0471245 |
| G0:0016742 | hydroxymethyl-, formyl- and related transferase act | 1 | 0.0604709 | 0.0471245 |
| G0:0019787 | small conjugating protein ligase activity | 4 | 0.0607528 | 0.0471245 |
| G0:0008188 | neuropeptide receptor activity | 2 | 0.064408 | 0.0499148 |
| G0:0015277 | kainate selective glutamate receptor activity | 1 | 0.0701879 | 0.053583 |
| G0:0030371 | translation repressor activity | 1 | 0.0701879 | 0.053583 |
| G0:0004630 | phospholipase D activity | 1 | 0.0701879 | 0.053583 |
| G0:0047760 | butyrate-CoA ligase activity | 1 | 0.0701879 | 0.053583 |
| G0:0047498 | calcium-dependent phospholipase A2 activity | 1 | 0.0701879 | 0.053583 |
| G0:0051861 | glycolipid binding | 1 | 0.0701879 | 0.053583 |
| G0:0042577 | lipid phosphatase activity | 1 | 0.0701879 | 0.053583 |
| G0:0005436 | sodium:phosphate symporter activity | 1 | 0.0701879 | 0.053583 |
| G0:0015174 | basic amino acid transporter activity | 1 | 0.0701879 | 0.053583 |
| G0:0008139 | nuclear localization sequence binding | 1 | 0.0701879 | 0.053583 |
| G0:0016494 | C-X-C chemokine receptor activity | 1 | 0.0701879 | 0.053583 |
| G0:0004931 | ATP-gated cation channel activity | 1 | 0.0701879 | 0.053583 |
| G0:0050811 | GABA receptor binding | 1 | 0.0701879 | 0.053583 |
| G0:0034713 | type I transforming growth factor beta receptor bir | 1 | 0.0701879 | 0.053583 |

| | | | | |
|------------|---|---|-----------|-----------|
| G0:0005099 | Ras GTPase activator activity | 3 | 0.0706143 | 0.053583 |
| G0:0005249 | voltage-gated potassium channel activity | 3 | 0.0780035 | 0.0591379 |
| G0:0016209 | antioxidant activity | 2 | 0.079068 | 0.0594429 |
| G0:0001848 | complement binding | 1 | 0.0798044 | 0.0594429 |
| G0:0015278 | calcium-release channel activity | 1 | 0.0798044 | 0.0594429 |
| G0:0003730 | mRNA 3'-UTR binding | 1 | 0.0798044 | 0.0594429 |
| G0:0031419 | cobalamin binding | 1 | 0.0798044 | 0.0594429 |
| G0:0043121 | neurotrophin binding | 1 | 0.0798044 | 0.0594429 |
| G0:0005283 | sodium:amino acid symporter activity | 1 | 0.0798044 | 0.0594429 |
| G0:0031543 | peptidyl-proline dioxygenase activity | 1 | 0.0798044 | 0.0594429 |
| G0:0003706 | ligand-regulated transcription factor activity | 1 | 0.0798044 | 0.0594429 |
| G0:0004982 | N-formyl peptide receptor activity | 1 | 0.0798044 | 0.0594429 |
| G0:0005487 | nucleocytoplasmic transporter activity | 1 | 0.0798044 | 0.0594429 |
| G0:0004372 | glycine hydroxymethyltransferase activity | 1 | 0.0798044 | 0.0594429 |
| G0:0043015 | gamma-tubulin binding | 1 | 0.0798044 | 0.0594429 |
| G0:0019003 | GDP binding | 1 | 0.0798044 | 0.0594429 |
| G0:0003906 | DNA-(apurinic or apyrimidinic site) lyase activity | 1 | 0.0798044 | 0.0594429 |
| G0:0004000 | adenosine deaminase activity | 1 | 0.0798044 | 0.0594429 |
| G0:0008641 | small protein activating enzyme activity | 1 | 0.0798044 | 0.0594429 |
| G0:0017153 | sodium:dicarboxylate symporter activity | 1 | 0.0798044 | 0.0594429 |
| G0:0004176 | ATP-dependent peptidase activity | 1 | 0.0798044 | 0.0594429 |
| G0:0003729 | mRNA binding | 2 | 0.0851958 | 0.0633178 |
| G0:0043027 | caspase inhibitor activity | 1 | 0.0893214 | 0.0658504 |
| G0:0004955 | prostaglandin receptor activity | 1 | 0.0893214 | 0.0658504 |
| G0:0004383 | guanylate cyclase activity | 1 | 0.0893214 | 0.0658504 |
| G0:0008199 | ferric iron binding | 1 | 0.0893214 | 0.0658504 |
| G0:0015101 | organic cation transporter activity | 1 | 0.0893214 | 0.0658504 |
| G0:0008135 | translation factor activity, nucleic acid binding | 3 | 0.0896871 | 0.0658504 |
| G0:0019955 | cytokine binding | 3 | 0.0957865 | 0.0701493 |
| G0:0004745 | retinol dehydrogenase activity | 1 | 0.09874 | 0.0718539 |
| G0:0019864 | IgG binding | 1 | 0.09874 | 0.0718539 |
| G0:0008907 | integrase activity | 1 | 0.09874 | 0.0718539 |
| G0:0017017 | MAP kinase phosphatase activity | 1 | 0.09874 | 0.0718539 |
| G0:0015250 | water channel activity | 1 | 0.09874 | 0.0718539 |
| G0:0030553 | cGMP binding | 1 | 0.09874 | 0.0718539 |
| G0:0004467 | long-chain-fatty-acid-CoA ligase activity | 1 | 0.09874 | 0.0718539 |
| G0:0005385 | zinc ion transporter activity | 1 | 0.09874 | 0.0718539 |
| G0:0005391 | sodium:potassium-exchanging ATPase activity | 1 | 0.09874 | 0.0718539 |
| G0:0048185 | activin binding | 1 | 0.09874 | 0.0718539 |
| G0:0004527 | exonuclease activity | 2 | 0.1043734 | 0.0755172 |
| G0:0051183 | vitamin transporter activity | 1 | 0.1080613 | 0.0777391 |
| G0:0051018 | protein kinase A binding | 1 | 0.1080613 | 0.0777391 |
| G0:0008514 | organic anion transporter activity | 1 | 0.1080613 | 0.0777391 |
| G0:0004016 | adenylate cyclase activity | 1 | 0.1080613 | 0.0777391 |
| G0:0015450 | protein translocase activity | 1 | 0.1080613 | 0.0777391 |
| G0:0005072 | transforming growth factor beta receptor, cytoplasmic | 1 | 0.1080613 | 0.0777391 |
| G0:0004716 | receptor signaling protein tyrosine kinase activity | 1 | 0.1172862 | 0.0836071 |
| G0:0005310 | dicarboxylic acid transporter activity | 1 | 0.1172862 | 0.0836071 |
| G0:0009982 | pseudouridine synthase activity | 1 | 0.1172862 | 0.0836071 |
| G0:0008367 | bacterial binding | 1 | 0.1172862 | 0.0836071 |
| G0:0010181 | FMN binding | 1 | 0.1172862 | 0.0836071 |
| G0:0008395 | steroid hydroxylase activity | 1 | 0.1172862 | 0.0836071 |

| | | | | |
|------------|---|----|-----------|-----------|
| G0:0051219 | phosphoprotein binding | 1 | 0.1172862 | 0.0836071 |
| G0:0019104 | DNA N-glycosylase activity | 1 | 0.1172862 | 0.0836071 |
| G0:0031406 | carboxylic acid binding | 1 | 0.1172862 | 0.0836071 |
| G0:0003676 | nucleic acid binding | 41 | 0.1221911 | 0.0866848 |
| G0:0004879 | ligand-dependent nuclear receptor activity | 2 | 0.1245771 | 0.0883169 |
| G0:0043022 | ribosome binding | 1 | 0.1264157 | 0.0892041 |
| G0:0003708 | retinoic acid receptor activity | 1 | 0.1264157 | 0.0892041 |
| G0:0016868 | intramolecular transferase activity, phosphotransferase | 1 | 0.1264157 | 0.0892041 |
| G0:0004659 | prenyltransferase activity | 1 | 0.1354508 | 0.0950086 |
| G0:0004857 | enzyme inhibitor activity | 5 | 0.1359024 | 0.0951574 |
| G0:0017016 | Ras GTPase binding | 2 | 0.1491872 | 0.1040504 |
| G0:0004198 | calpain activity | 1 | 0.1532417 | 0.1065473 |
| G0:0004889 | nicotinic acetylcholine-activated cation-selective | 1 | 0.1532417 | 0.1065473 |
| G0:0005024 | transforming growth factor beta receptor activity | 1 | 0.1532417 | 0.1065473 |
| G0:0005160 | transforming growth factor beta receptor binding | 1 | 0.1619994 | 0.1122136 |
| G0:0005212 | structural constituent of eye lens | 1 | 0.1619994 | 0.1122136 |
| G0:0015631 | tubulin binding | 2 | 0.1636519 | 0.1131761 |
| G0:0016407 | acetyltransferase activity | 2 | 0.1673062 | 0.115626 |
| G0:0004970 | ionotropic glutamate receptor activity | 1 | 0.1706666 | 0.1175478 |
| G0:0016878 | acid-thiol ligase activity | 1 | 0.1706666 | 0.1175478 |
| G0:0004520 | endodeoxyribonuclease activity | 1 | 0.1706666 | 0.1175478 |
| G0:0015026 | coreceptor activity | 1 | 0.1706666 | 0.1175478 |
| G0:0016597 | amino acid binding | 1 | 0.1706666 | 0.1175478 |
| G0:0015464 | acetylcholine receptor activity | 1 | 0.1706666 | 0.1175478 |
| G0:0005230 | extracellular ligand-gated ion channel activity | 2 | 0.174656 | 0.120031 |
| G0:0016799 | hydrolase activity, hydrolyzing N-glycosyl compound | 1 | 0.1792442 | 0.1229552 |
| G0:0016504 | protease activator activity | 1 | 0.1792442 | 0.1229552 |
| G0:0019843 | rRNA binding | 1 | 0.187733 | 0.1282334 |
| G0:0008186 | RNA-dependent ATPase activity | 1 | 0.187733 | 0.1282334 |
| G0:0032947 | protein complex scaffold | 1 | 0.187733 | 0.1282334 |
| G0:0004866 | endopeptidase inhibitor activity | 3 | 0.1903704 | 0.129709 |
| G0:0030246 | carbohydrate binding | 5 | 0.1942237 | 0.1322995 |
| G0:0008028 | monocarboxylic acid transporter activity | 1 | 0.1961341 | 0.1333722 |
| G0:0043021 | ribonucleoprotein binding | 1 | 0.1961341 | 0.1333722 |
| G0:0003727 | single-stranded RNA binding | 1 | 0.2044484 | 0.1386063 |
| G0:0004950 | chemokine receptor activity | 1 | 0.2208198 | 0.1489431 |
| G0:0031202 | RNA splicing factor activity, transesterification r | 1 | 0.2208198 | 0.1489431 |
| G0:0004721 | phosphoprotein phosphatase activity | 3 | 0.2331076 | 0.1566789 |
| G0:0004869 | cysteine protease inhibitor activity | 1 | 0.2368545 | 0.1590524 |
| G0:0004091 | carboxylesterase activity | 2 | 0.2424796 | 0.1626184 |
| G0:0004129 | cytochrome-c oxidase activity | 1 | 0.2447477 | 0.1639692 |
| G0:0005504 | fatty acid binding | 1 | 0.2525592 | 0.1686994 |
| G0:0008034 | lipoprotein binding | 1 | 0.2602901 | 0.1735043 |
| G0:0015078 | hydrogen ion transporter activity | 2 | 0.2654169 | 0.1767165 |
| G0:0015020 | glucuronosyltransferase activity | 1 | 0.2679409 | 0.1782133 |
| G0:0016769 | transferase activity, transferring nitrogenous group | 1 | 0.2679409 | 0.1782133 |
| G0:0008066 | glutamate receptor activity | 1 | 0.2679409 | 0.1782133 |
| G0:0004536 | deoxyribonuclease activity | 1 | 0.2755127 | 0.1828258 |
| G0:0015300 | solute:solute antiporter activity | 1 | 0.2755127 | 0.1828258 |
| G0:0005272 | sodium channel activity | 1 | 0.2830061 | 0.1874371 |
| G0:0042277 | peptide binding | 3 | 0.2857137 | 0.1889881 |
| G0:0004190 | aspartic-type endopeptidase activity | 1 | 0.2904221 | 0.1918814 |

| | | | | |
|------------|---|-----|-----------|-----------|
| G0:0015179 | L-amino acid transporter activity | 1 | 0.3193271 | 0.2103065 |
| G0:0001614 | purinergic nucleotide receptor activity | 1 | 0.3193271 | 0.2103065 |
| G0:0008374 | O-acyltransferase activity | 1 | 0.3263675 | 0.2146149 |
| G0:0042054 | histone methyltransferase activity | 1 | 0.3263675 | 0.2146149 |
| G0:0019001 | guanyl nucleotide binding | 5 | 0.3330854 | 0.2188096 |
| G0:0003678 | DNA helicase activity | 1 | 0.3333351 | 0.2188346 |
| G0:0004428 | inositol or phosphatidylinositol kinase activity | 1 | 0.3402307 | 0.223163 |
| G0:0016830 | carbon-carbon lyase activity | 1 | 0.347055 | 0.2273793 |
| G0:0045182 | translation regulator activity | 2 | 0.3526224 | 0.2308805 |
| G0:0003954 | NADH dehydrogenase activity | 1 | 0.3671073 | 0.2398478 |
| G0:0008276 | protein methyltransferase activity | 1 | 0.3736536 | 0.2440322 |
| G0:0005267 | potassium channel activity | 2 | 0.3748555 | 0.2447553 |
| G0:0048037 | cofactor binding | 3 | 0.383926 | 0.2504877 |
| G0:0004672 | protein kinase activity | 7 | 0.3850883 | 0.2511826 |
| G0:0008146 | sulfotransferase activity | 1 | 0.3928893 | 0.2560124 |
| G0:0016655 | oxidoreductase activity, acting on NADH or NADPH, c | 1 | 0.3991691 | 0.2598094 |
| G0:0019208 | phosphatase regulator activity | 1 | 0.4053839 | 0.2636552 |
| G0:0008170 | N-methyltransferase activity | 1 | 0.4115344 | 0.2673861 |
| G0:0004702 | receptor signaling protein serine/threonine kinase | 1 | 0.4641047 | 0.2997706 |
| G0:0016791 | phosphoric monoester hydrolase activity | 3 | 0.4708749 | 0.3039155 |
| G0:0004518 | nuclease activity | 2 | 0.48045 | 0.309975 |
| G0:0035257 | nuclear hormone receptor binding | 1 | 0.4965166 | 0.3193482 |
| G0:0008092 | cytoskeletal protein binding | 5 | 0.5072083 | 0.3255763 |
| G0:0004540 | ribonuclease activity | 1 | 0.5170282 | 0.331509 |
| G0:0008236 | serine-type peptidase activity | 2 | 0.5475265 | 0.3501513 |
| G0:0004620 | phospholipase activity | 1 | 0.5601767 | 0.3577099 |
| G0:0051020 | GTPase binding | 1 | 0.5736854 | 0.3660194 |
| G0:0030528 | transcription regulator activity | 14 | 0.5927712 | 0.377963 |
| G0:0046873 | metal ion transporter activity | 3 | 0.6162647 | 0.3926521 |
| G0:0016298 | lipase activity | 1 | 0.6197644 | 0.3947846 |
| G0:0016818 | hydrolase activity, acting on acid anhydrides, in p | 7 | 0.6200228 | 0.3948518 |
| G0:0016790 | thiolester hydrolase activity | 1 | 0.6275908 | 0.399376 |
| G0:0030594 | neurotransmitter receptor activity | 1 | 0.6427639 | 0.4084781 |
| G0:0016616 | oxidoreductase activity, acting on the CH-OH group | 1 | 0.6427639 | 0.4084781 |
| G0:0005539 | glycosaminoglycan binding | 1 | 0.6746819 | 0.4272379 |
| G0:0016773 | phosphotransferase activity, alcohol group as accep | 6 | 0.7166955 | 0.4530652 |
| G0:0022891 | substrate-specific transmembrane transporter activi | 7 | 0.7264113 | 0.4588702 |
| G0:0032403 | protein complex binding | 1 | 0.7330106 | 0.4628126 |
| G0:0019842 | vitamin binding | 1 | 0.7357729 | 0.4644431 |
| G0:0050662 | coenzyme binding | 1 | 0.7962695 | 0.5015274 |
| G0:0008324 | cation transporter activity | 4 | 0.8060114 | 0.5074159 |
| G0:0016746 | transferase activity, transferring acyl groups | 1 | 0.8683778 | 0.5454815 |
| G0:0015291 | porter activity | 1 | 0.891983 | 0.559493 |
| G0:0016788 | hydrolase activity, acting on ester bonds | 4 | 0.9206739 | 0.5763695 |
| G0:0042623 | ATPase activity, coupled | 1 | 0.9225692 | 0.5774161 |
| G0:0042578 | phosphoric ester hydrolase activity | 1 | 0.9676907 | 0.6037548 |
| G0:0005488 | binding | 108 | 0.9700513 | 0.6047894 |
| G0:0015267 | channel or pore class transporter activity | 1 | 0.983744 | 0.6124393 |
| G0:0004984 | olfactory receptor activity | 1 | 0.9875983 | 0.6145426 |
| G0:0030234 | enzyme regulator activity | 3 | 0.9901778 | 0.6155129 |
| G0:0015075 | ion transporter activity | 1 | 0.9994547 | 0.6155129 |
| G0:0043169 | cation binding | 17 | 0.999969 | 0.6155129 |

| | | | | |
|------------|---------------------------|-----|-----------|-----------|
| G0:0003674 | molecular_function | 102 | 0.9999998 | 0.6155129 |
| G0:0003824 | catalytic_activity | 20 | 0.9999999 | 0.6155129 |
| G0:0017076 | purine_nucleotide_binding | 1 | 1 | 0.6155129 |

| Protein | Input Symbol |
|--|--------------|
| LRRC37B;EGLN3;NTRK LRRC37B;EGLN3;NTRK2;THBS4;HECW1;MEST;DBC1;DBC1;POSTN;HLA-A;HLA-A;HLA-A;EGLN3;CP;UTY;CA2;L EGLN3;CP;UTY;CA2;LEPREL1;LOXL2;CA12;MOXD1;ZNF143;CSGALNACT1;ALOX15B;LPP NTRK2;PPARGC1A;DCL NTRK2;PPARGC1A;DCLK1;PFKFB3;LARS;PFKP;PRKCH;PRKCZ;HK2;HK2;CDKN1A;EGFR;A NTRK2;DCLK1;PFKFB3 NTRK2;DCLK1;PFKFB3;LARS;PFKP;PRKCH;PRKCZ;HK2;HK2;CDKN1A;EGFR;AK5;DDX54; MMP3;CA2;CA12;ADAM MMP3;CA2;CA12;ADAMTSL1;ZNF143;S100A1;LPP;KDM5D;PRKCH;PRKCZ;ZIC1;LDB3;CD NTRK2;DCLK1;PFKFB3 NTRK2;DCLK1;PFKFB3;TGM2;CHST1;NNMT;GSTM1;CSGALNACT1;PFKP;PRKCH;PRKCZ;HK THBS4;MMP3;PCSK1;T THBS4;MMP3;PCSK1;TGM2;MCTP2;PLA2G4A;S100A1;NPTX1;TPD52;ITPR1;MASP1;WBSC CTNNB1;ZIC1;STAT1;CTNNB1;ZIC1;STAT1;RCAN1;TBX20;SMAD3;ZNF238;ATAD2;SOX5;NFIA;HOXC8;TFDP2; PPARGC1A;SMARCC1;Z PPARGC1A;SMARCC1;ZNF143;KDM5D;ZNF395;ZNF529;ZNF514;LRRFIP1;TOX;DNMT3A;Z PFKP;ENO2;PAK3;EPH PFKP;ENO2;CDKN1A;EPHX2;NUAK2;PHOSPHO2;SAR1B;ADSSL1;EYA2;RPS6KA1;BRSK2;R PDE4B;PFKFB3;PLA2G PDE4B;PFKFB3;PLA2G4A;BST1;PDE4D;SYNJ1;CHI3L2;APEH;DDX54;EPHX2;PHOSPHO2; EGLN3;CP;UTY;LEPRE EGLN3;CP;UTY;LEPREL1;AKR1C1;LOXL2;ALOX15B;KDM5D;HSD17B6;ALDH3A1;PTGS2;P MMP3;PCSK1;CFB;C9c MMP3;PCSK1;CFB;ADAMTSL1;HK2;MASP1;SERPINA1;ADAMTSL3;USP9Y;LGMM;STAMBPL1 DCLK1;PAK3;HIPK3;WDCLK1;CDKN1A;HIPK3;WNK4;NUAK2;LGMM;KSR1;BCR;CLK2;RPS6KA1;BRSK2;CLK1;RPS ABLIM1;FHOD3;FMNL3 ABLIM1;FHOD3;FHOD3;MYO1B;SYNE1;MYO15A;CNN1;SYNE2;EPB41L1;HDAC6;FMN2;WIP PPARGC1A;TROVE2;PE PPARGC1A;TROVE2;PDCD11;SYNJ1;IGF2BP1;DDX54;RBMS3;KHDRBS3;APOBEC3G;UBR5; VEGFA;S100A1;TPD52 VEGFA;S100A1;TPD52;S100B;PVRL3;SMAD3;EPHX2;APOBEC3G;NLGN4X;PDGFRA;PYGL; CHRM2;CX3CR1;CCRL1 CHRM2;CCRL1;CCRL1;ITGB4;TNFRSF11B;ITGA3;TREM1;SEMA6D;NOTCH3;DDR2;TNFRSF HECW1;LARS;ACSS2;AHECW1;LARS;ACSS2;ADSSL1;UBR5;UBE2D3;MDM2;RNF14;SLC27A3;BTRC;TTLL7;RNF8; EGLN3;UTY;LEPREL1;EGLN3;UTY;LEPREL1;ALOX15B;KDM5D;HPD;P4HA1;PPP3CA;CLK1;HLA-H;P4HTM;HFE;C SOX9;HOXC8;SIX1;DE SOX9;HOXC8;SIX1;DBP;MEIS1;HOXB6;ETV1;MEIS2;ETS1;HOXC10;FOSL1;RERE;PITX1 TGM2;SAR1B;ADSSL1;TGM2;SAR1B;ADSSL1;TUBG2;TUBA4A;RASL11B;GNAZ;DNM3;RAB3A;GNAO1;GNL2;TPX2; LOXL2;HSD17B6;NQO1 LOXL2;HSD17B6;NQO1;SDHA;ACOX2;AKR1B1;CMAHP;MAOB;CYP39A1;P4HA2;XDH;AASS; PFKFB3;EGFR;S100A4 PFKFB3;EGFR;S100A4;THBS1;LPL;MDM2;EIF2AK3;PON2;COL1A2;FNBP1;MAP3K1;ITGA RGS4;SLC8A1;PPP3CARGS4;SLC8A1;PPP3CA;MYO1B;EWSR1;MYO15A;CNN1;CALD1;PDE1C;ADCY3;CAMK2D;SPA THBS4;POSTN;FN1;VE THBS4;POSTN;FN1;VEGFA;THBS1;COL5A3;LPL;APOB;FBLN7;HDGF;SERPINE2;FGFR2;R RGS4;TBC1D8;ARHGAF RGS4;TBC1D8;ARHGAP19;RGS5;ARHGAP29;BCR;GARNL3;RASSF4;ARHGAP20;RGS3;SRGA TPD52;EGFR;NOTCH4;TPD52;EGFR;NOTCH3;PDGFRA;APOB;BDKRB2;PPP2R4;LIMK2;TOP2A;ADD2;BARD1;PPAR FN1;CHI3L1;TFPI2;CFN1;CHI3L1;TFPI2;COL14A1;FBN2;LAMA3;COL5A3;COL24A1;COL1A2;MFAP5;COL4A3; MMP3;ADAM22;PAPLN;MMP3;ADAM22;PAPLN;ADAM9;ECE1;ADAM15;MMP28;ADAM32;MMP16;ADAMTS17;MMP24;A PAK3;KHDRBS3;BAIAP CDKN1A;KHDRBS3;BAIAP2;SH3BP2;BAIAP2L1;EPS15;ADAM9;ADAM15;DRD4;ZFP106;EL RASGRF2;BCR;PREX2;RASGRF2;BCR;PREX2;RALGDS;RALGPS2;RPGR;MADD;RASGEF1A;PLEKHG1;FGD6;DOCK9; TGM2;MBOAT1;MYST2;TGM2;MBOAT1;KAT7;AGPAT5;GGT7;MGAT1;SAT1;ACAT1;LPCAT1;HHAT;QPCT;SPTLC3;M DDX54;CHD1L;SHPRH;DDX54;CHD1L;SHPRH;DHX40;DDX60L;NAV2;DDX43;CHD7;SKIV2L;CHD9;DHX57;DDX60; VEGFA;NRG1;NRG1;NF VEGFA;NRG1;NRG1;NRG2;TGFA;FGF18;HDGF;JAG1;NGF;FGF13;CA11;FGF1;NBN;GPI;W UGCG;GL8D1_HUMAN;W UGCG;GLT8D1;WBSCR17;UPRT;PYGL;GTDC1;NAMPT;LARGE;GALNT2;GALNT12;MGAT5;MG CTNNB1;SMARCC1;CHA CTNNB1;SMARCC1;CHAF1B;TOP2A;CHD7;CBX7;CHD9;NPTXR;MORF4L1;LEF1;CENPA;POL SLC4A8;SLC4A7;SLC8 SLC4A8;SLC4A7;SLC8A1;SLC9A8;SCN10A;SLC4A4;SLC38A6;ASIC1;SAT1;NALCN;SLC6 CTNNB1;SMARCC1;RNF CTNNB1;SMARCC1;RNF14;MAML3;TBPL1;ZFX;NFYC;HTATIP2;RNF4;SF1;TCERG1;NR2F1 CTNNB1;SMARCC1;ITG CTNNB1;SMARCC1;ITGB1BP1;LDLRAP1;BAIAP2;DAB2;TOP2A;MLLT4;ITGB3BP;TOPBP1; WBSCR17;TESK2;GALN WBSCR17;TESK2;GALNT2;GALNT12;GALNTL1;IDH3G;B4GALT4;GALNT13;GALNT13;MIPE PRKCH;PRKCZ;ARHGAF PRKCH;PRKCZ;ARHGAP29;KSR1;STAC;DGKG;MYO9A;RASSF5;UNC13B;PRKD3;ROCK2;DGK UBR5;FBXL5;UBE2D3;UBR5;FBXL5;UBE2D3;MDM2;UBE2C;DZIP3;BIRC6;UBR4;TRIP12;BARD1;BCOR;HUWE1;H TUBG2;TUBA4A;GNAZ;TUBG2;TUBA4A;GNAZ;DNM3;RAB3A;GNAO1;GNL2;GFM1;RND3;GNAL;ATL2;TUBG1;GNAS; NNMT;AS3MT;NSUN6;L NNMT;AS3MT;NSUN6;DNMT3A;MLL5;WBSCR22;TYMS;DPH5;MET;THUMP2;HNMT;TRMT2B; SLC4A7;SLC16A4;SLC SLC4A7;SLC16A4;SLC4A4;SLC6A3;SAT1;SLC22A18;SLC12A7;SLC6A6;SLC25A22;SLC6 EGLN3;UTY;LEPREL1;EGLN3;UTY;LEPREL1;KDM5D;PTGS2;P4HA1;P4HTM;P4HA2;PLOD1;EGLN1;KDM3A;JMJD1 HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-A;HLA-B;HLA-B;HLA-B;HLA-B;HLA-C;HLA-C;HLA-C;HLA-C DDX54;HR;MEIS2;ZFF DDX54;HR;MEIS2;ZFFM2;SF1;BCOR;PCM1;ZEB1;SP100;THRB;NR1D1;HOXC6;NCOR2;DD KIF2A;KIF27;KIF26E HK2;KIF27;KIF26B;KIF20A;DYNC2H1;KIF23;DYNC1I2;DNHD1;CENPE;KIF3A;MPP1;DY CTNNB1;PPARGC1A;PE CTNNB1;PPARGC1A;PDCD11;SMAD3;HDAC9;NFIA;HDAC11;SORBS3;GPX3;HDAC4;ETS1;T | |

DCT;HSD17B4;TPI1;FDCT;DBP;TPI1;PTGDS;PPIL3;C1QTNF3;TBXAS1;PPIE;GPI;PDIA6;GBF1;FKBP5;TMX3;SLC4A8;SLC2A9;SLC4SLC4A8;SLC2A9;SLC4A7;SLC2A5;SLC02A1;SLC2A12;SYT9;SLC2A14;ABCC9;ABCC1;SLC4A8;EGFR;LCP1;SHROOM2;EGFR;LPL;SHROOM2;SCIN;TTLL3;ADD2;MYO6;MYH10;DBNL;TNC;SVIL;LRPPRC;FLNA;FSORBS2;SORBS3;EPB4SORBS2;SORBS3;EPB41;DMD;DES;AGRN;EPB41L4B;LOR;KRT5;TUBG1;TLN1;PC;TLN2;ATBX20;SMAD3;SOX9;MTBX20;SMAD3;SOX9;MED24;FOSL1;RUNX2;MITF;NR4A3;MYBL1;TP53BP1;PPARG;LEF1;THBS4;LMNA;THBS1;CTHBS4;LMNA;THBS1;CROCC;LAMA3;JAG1;EPB41L1;TUBG2;TUBA4A;COL22A1;MAP1B;ODKCN5;KCNK2;CACNB3HK2;KCNK2;CACNB3;CACNA1I;SCN10A;CACNA2D1;CLCNKB;CACNA1A;CACNA1D;TPCN1;NPCSK1;CFB;KLK2;MASPCSK1;CFB;HK2;MASP1;APEH;PLAT;CORIN;PCSK2;SERPINE1;DPP4;EML2;C1S;PCSK7;CP;LOXL2;MOXD1;LOXCP;LOXL2;MOXD1;LOXL3;DCT;LOXL4;MT4;APLP1;SOD1;HEPH;PRNP;MT1M;DA0;APP;SLSDHA;ACOX2;XDH;TXN SDHA;ACOX2;XDH;TXNRD1;ACAD10;ACADSB;ERO1L;MADD;DPYD;FMO4;ACADVL;NOX4;ACCA2;CA12;ENO2;PDXCA2;CA12;ENO2;PDXDC1;DBP;ALDOA;CA5B;ECHDC2;ALDOC;ADC;CSAD;POLB;THNSL2;ARASGRF2;BCR;PLEKHGRASGRF2;BCR;PLEKHG3;PLEKHG1;FGD6;ITSN2;ITSN1;AKAP13;TIAM1;ARHGEF1;NET1;USP9Y;STAMBPL1;USF USP9Y;STAMBPL1;USP48;USP25;USP34;USP54;USP24;USP43;UCHL5;USP45;USP49;USTP53BP1;POLK;NBN;ETP53BP1;POLK;NBN;RAD1;RAD1;POLB;MSH6;MSH2;LOC100133315;XPC;TDG;NEIL3;ERTBPL1;IRF2;DBP;MEITBPL1;IRF2;DBP;MEIS1;HOXC10;RUNX2;NFYC;HTATIP2;ZFPM2;SF1;TCERG1;MAF;SREKCN5;KCNK2;ACAT1;HK2;KCNK2;ACAT1;KCNH1;SLC12A7;BCKDHA;PKM;SLC12A2;KCNT2;KCNQ3;TMEM91;KCNTRMT6;EIF2B4;EIF2S TRMT6;EIF2B4;EIF2A;EIF2A;MTIF3;EIF4E3;EIF3E;EIF1AY;EIF5A;COPS5;EIF4H;EISMARCC1;DCTN4;ESR1 SMARCC1;DCTN4;ESR1;NBN;RAD1;ATM;MEN1;ZWINT;NCOA3;PARP1;EIF5A;ERCC3;PEX1CHI3L1;WBSCR17;LGACHI3L1;WBSCR17;LGALS8;CLK1;GALNT2;GALNT12;LGALS4;SORD;GALNTL1;GALNT13;GEYA2;EYA4;MTMR1;DUEYA2;EYA4;MTMR1;DUSP10;CDC14A;PTPN22;PTPRQ;CDKN3;PTPN3;SSH3;SSH1;PTEN;MHOOK2;TARDBP;MAPREHK2;TARDBP;EBF3;MAPRE3;MAPRE2;GLI1;POLB;CDK5RAP2;DYNC1I1;LRPPRC;PRNP;HTTFPI2;COL7A1;SERPITFP12;COL7A1;SERPINA1;CRIM1;SERPINF1;PAPLN;RECK;SERPINE2;SERPINE1;TFPI;ID2;LRRFIP1;HOXC8;ID2;LRRFIP1;HOXC8;HES1;HDAC4;TRIM66;NAB1;PPARG;LRRN1;RFX3;DMAP1;SIM2;TFLGMN;CTSC;PYCARD;FLGMN;CTSC;PYCARD;POP1;CASP1;CTSL1;CTSH;CASP8;USP1;UCHL1;ATG4C;CFLAR;USPSH3BP2;SOCS2;SH2B2SH3BP2;SOCS2;SH2B2;GAB1;SORBS1;ITSN2;SH3BGR;SH3BGR;CNTNAP1;PAG1;ARHGAP6CDKN2A;RNF138;PTPRCDKN2A;NARF;PTPRQ;CEP250;SQSTM1;MAP3K13;NBEA;CD4;DLG4;TCF7L2;NOD2;CCND3CHD1L;DHX40;DDX60LCHD1L;DHX40;DDX60L;DHX57;DHX15;DDX60;DHX58;DDX50;DDX27;DDX17;DDX55;CHD5PPP3CA;PPP2R2A;CDKPPP3CA;PPP2R2A;CDKN3;PPP3CB;PTEN;PPP2R3B;LCK;MTMR3;PPM1K;PDP1;PPP2CB;PWBSCR17;GALNT2;GALWBSCR17;GALNT2;GALNT12;GALNTL1;GALNT13;GALNT13;GALNT7;GALNT7;GALNT3;GALFN1;COL14A1;SMAD3;FN1;COL14A1;SMAD3;CD44;COL5A3;ADAM9;ITGA2;ITGA1;ITGA10;PDGFA;DSPEGLN3;LEPREL1;P4HA EGLN3;LEPREL1;P4HA1;P4HTM;P4HA2;PLOD1;EGLN1;LEPRE1;PLOD3;OGFOD2ABCC9;ACIN1;ABCC1;ABCC9;ACIN1;ABCC1;PPP2R4;ABCA5;DYNC2H1;ABCA4;ABCC2;ABCA1;ATP5A1;MDN1;MPAP1S3;RAMP1;XPO7;ZAP1S3;RAMP1;XPO7;ZFYVE16;SNUPN;XPO1;RANBP17;AP1G2;VTI1A;AP1G1;IPO5;TNPCPTGS2;CYB5D1;CYP39PTGS2;CYB5D1;CYP39A1;HMOX1;CYP2R1;CYP26A1;CPS1;TBXAS1;CYP51A1;GUCY1B3;CDYNC2LI1;MYO1B;MYC DYNC2LI1;MYO1B;MYO15A;DNM3;MYH14;MYH14;MYL5;MYL3;MYO6;MYO10;MYO9A;MYO5BSSBP2;MCM7;HMGB2;FSSBP2;MCM7;HMGB2;PMS2;BRCA2;RAD1;POLB;LRPPRC;MSH2;XPC;MCM2;RPA3;MSHRORA;NR4A3;NR5A1;FRORA;NR4A3;SF1;PPARG;NR2F1;NR4A2;THRB;NR1D1;ROR1;NR1D2;RARB;ROR2;NR1H3;KSR1;CLK2;TESK2;MAKSR1;CLK2;TESK2;MAP2K5;MAP3K11;MLKL;CTTNBP2;MAP2K3;MAP3K13;ZAK;DYRK1B;FUSP9Y;USP48;USP25;USP9Y;USP48;USP25;TNFAIP3;ATG4B;USP34;USP24;USP43;UCHL5;USP45;UFSP2;USPTHBS1;VCAM1;ADAM22 THBS1;VCAM1;ADAM22;ADAM9;ACTN1;COL4A3;ADAM23;EDIL3;TNXB;FBLN5;ITGB3;ECMCHRM2;CX3CR1;CCRL1CHRM2;CCRL1;CCRL1;GPR126;GPCR5C;P2RY6;FZD4;GPER;BDKRB2;CD97;DRD4;FZD6;CMLL5;MEN1;WHSC1;SUMLL5;MEN1;WHSC1;SUV420H1;PRDM6;EHMT1;EHMT2;EZH1;EZH1;EZH2;PRDM7POLD3;POLS;POLK;PCPOLD3;POLK;POLK;POLA1;POLE;POLA2;POLB;POLB;REV1;MDP1LRRFIP1;PRKRA;STAU LRRFIP1;PRKRA;STAU2;MRPL44;TLR3;DROSHA;NKRF;ILF2;ADARB1;MBNL1EIF2A;SEPSECS;CARSEIF2A;SEPSECS;CARSEIF2A;SLA;XPO5;MARS;TRNT1;TRNT1VEGFA;IL32;TNFRSF1 VEGFA;IL32;TNFRSF11B;TNFRSF15;NAMPT;GPI;IL16;FAM3C;GDF5;ARSB;TNFRSF13B;FLSLC2A9;SLC2A5;SLC2SLC2A9;SLC2A5;SLC2A12;SLC2A14;SLC2A3;SLC37A3;SLC37A4;SLC37A1;SLC2A1;SLCHDAC9;HDAC11;HDAC6 HDAC9;HDAC11;HDAC6;HDAC4;HDAC2;HDAC1;HDAC3;HDAC8HECW1;UBR5;RNF8;HEHECW1;UBR5;RNF8;HERC3;C12orf51;HECW2;TRIP12;HUWE1;HERC1;HECTD3;WWP2;KIA PDXDC1;PYGL;OAT;SFPDXDC1;PYGL;OAT;SPTLC3;SHMT1;CSAD;AGT;THNSL2;CBS;PDXK;GPT2SORBS2;NEB;DMD;MYL SORBS2;NEB;DMD;MYL5;MYL3;MYOT;ASPH;SMTN;TPM2;MYL6BSLC4A8;SLC4A7;SLC4SLC4A8;SLC4A7;SLC4A4;SLC4A2;SLC4A5;SLC4A5;SLC4A9;SLC4A3

SLC4A8;SLC47A1;SLC SLC4A8;SLC47A1;SLC8A1;SLC9A8;SLC47A2;SLC9A9;SLC4A2;SLC4A9;SLC4A3;SLC9A7
ANO1;ANO2;NLGN4X;C ANO1;ANO2;NLGN4X;CTSC;CLCNKB;ANO8;CLIC6;CLCN4;FXD1;ANO6;AMY2A;SLC12A8
DNAJC12;DNAJC15;BC DNAJC12;DNAJC15;BCOR;DNAJB2;DNAJC27;DNAJB6;DNAJC18;DNAJC13;DNAJC6;DNAJC
HYAL1;SPAM1;GLB1L2HYAL1;HYAL1;GLB1L2;GBA;GALC;MGEA5;FUCA1;GLB1L;NAT6;AGL;NEU3;OGG1;AMY2A;
NDUFS7;ETFDH;DPYD;NDUFS7;MADD;DPYD;TYW1B;ACO1;MOCS1;ACO2;ETFDH;PPAT
EPB41;SCIN;PLEKHA4EPB41;SCIN;PLEKHA4;ZFYVE16;EEA1;PIK3R1;PLEKHA5
ABCA4;ATP11A;ATP8E ABCA4;ATP11A;ATP8B3;ATP10B;ATP11C;ATP10D;ATP10A
POLD3;POLS;POLK;PC POLD3;POLK;POLK;POLR3A;POLA1;OAS1;POLE;POLB;POLB;PAPSS2;OAS3;POLR2B;UGF
ITPR1;ANO1;ANO2;RY ITPR1;ANO1;ANO2;RYR1;GRIA1;KCNMB1;KCNMB4;ASIC1;ITPR2;ANO8;GRIA3;MCOLN3;
COL14A1;LDLRAP1;CC COL14A1;LDLRAP1;COL11A2;COL1A2;ST13;TTLL3;LOR;COL11A1;BCL3;MMS19;DSP;AD
TBC1D8;TBC1D15;RAE TBC1D8;TBC1D15;RABGAP1L;SGSM3;TBC1D26;EVI5;TBC1D1;TBC1D12;TBC1D19;TBC1D
PIK3C2B;HS1BP3;SNX PIK3C2B;HS1BP3;SNX16;ZCCHC2;SNX21;HIP1R;SBF2;SNX25;SH3PXD2A;HIP1;PKX;SN
PTPRS;PTPRF;PTPRD;PTPRS;PTPRF;PTPRD;PTPRQ;PTPRU;PTPRA;PTPRE
VEGFA;PDGFRA;PDGFA VEGFA;PDGFRA;PDGFA;PTEN;IL1R1;PDGFRB
MPP1;DLG3;MPP3;MPF MPP1;DLG3;DLG3;MPP2;DLG2;DLG2;CASK
CTNNB1;RGS4;RGS5;S CTNNB1;RGS4;RGS5;STAT1;APOL3;GRK5;ECM1;TGFA;PLK2;RGS3;GULP1;HMOX1;GNAO1
SELT;SELENBP1;GPX3 SELT;SELENBP1;GPX3;TXNRD1;SEPP1;SEPSECS;GPX2;SLA;DI02
COL11A2;COL12A1;CC COL11A2;COL12A1;COL2A1;COL9A1;COL9A3
CRYZL1;PGD;TXNRD1;CRYZL1;PGD;TXNRD1;DPYD;FMO4;HMGCR;NNT;GSR
ATP6V1B1;ATP11A;AI ATP6V1B1;ATP11A;ATP5A1;ATP8B3;ATP2B4;ATP10B;ATP11C;ATP6V1H;ATP10D;ATP2C
CXCL2;CXCL14;CXCL1 CXCL2;CXCL14;CXCL13;CXCL16;CCL28;CX3CL1;C5;PF4V1;CXCL12
SMAD3;TOP2A;SQSTM1 SMAD3;TOP2A;SQSTM1;CIITA;GHR;NEDD4;UCHL1
PHIP;DOK1;SORBS1;F PHIP;DOK1;SORBS1;PIK3R1;DOK5;IGF1;ENPP1
BAIAP2;SORBS2;BAIABAIAP2;SORBS2;BAIAP2L1;NCK1;ANK1;SDCBP
PDK1;PDK2;KCNH1;PC PDK1;PDK2;KCNH1;PDK3;BCKDK;PDK4
PTGS2;STARD5;APOL2 PTGS2;STARD5;APOL3;APOL3;FBNP1;APOL1;ACBD5;PLEKHA4;SF1;EPN2;PTEN;PLTP;F
STC1;ADM;EDN1;TG;A STC1;ADM;EDN1;TG;APLN;RIF1;AGT;LRSAM1;GH2;IGF1;IGF1;LEP
LOXL2;LOXL3;LOXL4;LOXL2;LOXL3;LOXL4;CORIN;CXCL16;STAB1;CFI;LRP4;LGALS3BP
PDE4B;PDE4D;PDE7A;PDE4B;PDE4D;PDE7A;PDE4A;PDE3A
MYO6;MYH10;MSH6;MS MYO6;MYH10;MSH6;MSH2;PRKAG2;PIM1
PYCARD;NLRP12;BCL2 PYCARD;NLRP12;BCL2L13;CASP1;APAF1;CARD8
RNASET2;DNASE1;PMS RNASET2;DNASE1;PMS2;MRPL44;DROSHA;DCLRE1C;ZNRANB3;OGG1;EXO1;ELAC1;SMG6
CTNNB1;PPARGC1A;RN CTNNB1;PPARGC1A;RNF14;RNF4;KDM3A;NCOA3;FHL2
CLK1;LYN;TNK2;WEE1 CLK1;LYN;TNK2;WEE1;PTK2B;LCK;HCK;ABL2
EGLN3;LEPREL1;P4HA EGLN3;LEPREL1;P4HA1;P4HTM;P4HA2;LEPRE1;OGFOD2
TAF1;MGEA5;ELP3;BF TAF1;MGEA5;ELP3;BRCA2;NCOA3;KAT2B;SRCAP
PDK1;PDK2;PDK3;PDK PDK1;PDK2;PDK3;PDK4
ARFGEF3;PSD3;GBF1;KIAA1244;PSD3;GBF1;HERC1;PSD4;ARFGEF1
ERAP1;ERAP2;DPP4;F ERAP1;ERAP2;DPP4;RNPEP;DNPEP;MAP2;ANPEP
CTNNB1;EGFR;SMAD3;CTNNB1;EGFR;SMAD3;SF1;HMGB2;KIN;ZNF638;THRB;MEN1
NTRK2;DDR2;DDR2;RC NTRK2;DDR2;TKT;ROS1;DDR1;NTRK1;ROR1;ROR2;PTK7;TIE1
CHAF1B;SIL1;TAPBP;CHAF1B;SIL1;TAPBP;SCG5;MDN1;DNAJB2;NPM1;MPP7;DNAJC18;ERO1LB;CCT8;DNAJC1
DDX54;DDX43;SKIV2L DDX54;DDX43;SKIV2L;HRH1;EIF4A3;DHX38
ACAP2;SMAP1;AGAP11 ACAP2;SMAP1;AGAP11;ARAP2;ARAP3;ARFGEF1;ADAP2
FZD4;FZD6;SMO;FZD3 FZD4;FZD6;SMO;FZD3;FZD3
TRERF1;HMGB2;LEF1;TRERF1;HMGB2;LEF1;HMGB1;HMGB3
LDLR;CXCL16;STAB1;LDLR;CXCL16;STAB1;LRP10;FLJ35024
PPIL3;PPIE;FKBP5;F PPIL3;PPIE;FKBP5;PPIG;PPIL4;NKTR;PPIL6
NRG1;SHC4;SQSTM1;F NRG1;SHC4;SQSTM1;PITPNM3
SYNJ1;OCRL;SYNJ2;I SYNJ1;INPP5F;SYNJ2;INPP5B
ALDH3A2;ALDH1A3;AL ALDH3A2;ALDH1A3;ALDH3B1;ALDH1A2
ADAMTSL1;ADAMTSL3;ADAMTSL1;ADAMTSL3;STAMBPL1;ERAP2;CPS1;PAPPA;LTA4H;DNPEP;CPZ;COPS5;CPXM1

SYTL2;RIMS1;MYRIP;SYTL2;RIMS1;MYRIP;DMXL2;SGSM3;ALS2
GSTM1;GSTT1;GSTM3;GSTM1;GSTT1;GSTM3;GSTA4;GSTM2;MGST1
CTNNB1;SMAD3;COL1A2CTNNB1;SMAD3;COL1A2;BMPR1B;MEN1;SMAD1;TGFB2
SYNJ1;OCRL;SYNJ2;ISYNJ1;INPP5F;SYNJ2;INPP5B;INPP5D;MTMR7
ABCC9;ABCC1;ABCA4;ABCC9;ABCC1;ABCA4;ABCC2;ABCB6;ABCF1;ABCB9;ABCC4;ABCA3;TAP2
CALD1;TMOD2;TNNT3;CALD1;TMOD2;TNNT3;LMOD1;TMOD1
PSMB8;TAPBP;ATP5A1PSMB8;TAPBP;ATP5A1;DERL1;TAP2
PFKFB3;PFKP;HK2;BCPFKFB3;PFKP;HK2;BCR;PIP5K1A;GK;PFKFB4;TAF1;PFKL;ADCK3;TK1;RIOK2;NME6;NA
ALDH3A1;ALDH3A2;ALALDH3A1;ALDH3A2;ALDH1A3;ALDH3B1
HYAL1;SPAM1;MGEA5;HYAL1;HYAL1;MGEA5;NAT6;HYAL3;HYAL3
SYNE1;NARF;LBR;BNISYNE1;NARF;LBR;BNIP3L
MOXD1;CYP39A1;CYP2MOXD1;CYP39A1;CYP2R1;TBXAS1;CYP51A1;FMO4;CYP2C8;MICAL3;MICAL2
PARP3;PARP14;PARP1PARP3;PARP14;PARP1;PARP8;PARP16;TIPARP
CNTNAP3;C3;DDX54;LCNTNAP3;C3;DDX54;LAMA3;LAMA3;APOL3;LPL;ANGPTL7;PPP2R4;AKAP6;LAMA2;LAMA4
CDC14A;CDKN3;SSH3;CDC14A;CDKN3;SSH3;SSH1;PTEN;DUSP15;EPM2A
DOCK4;PTEN;GRM7;LNDOCK4;PTEN;GRM7;LNX1;SLC22A12;CCDC88C
PRKCH;PRKCZ;PRKD3;PRKCH;PRKCZ;PRKD3;PKN2;PRKCE
LPL;PNPLA2;PNPLA3;LPL;PNPLA2;PNPLA3;FAP;LIPC
ACOX2;ACAD10;ACADSACOX2;ACAD10;ACADSB;ACAD9;ACADM
DGKI;DGKG;SPHK1;DGDGKI;DGKG;SPHK1;DGKD;DGKH
CHI3L1;CHI3L2;CHITCHI3L1;CHI3L2;CHIT1;OVGP1
SYNJ1;INPP5B;INPP5SYNJ1;INPP5B;INPP5D;INPP5K
PIP5K1A;PIP4K2B;PIPIP5K1A;PIP4K2B;PIP5KL1;PIP5K1C
EFNB1;TIAM1;EFNA5;EFNB1;TIAM1;EFNA5;EFNA1
PPARGC1A;MED24_HUMPPARGC1A;MED24;TRERF1;MED12;CNOT2
CA2;CA12;CA11;CA5ECA2;CA12;CA11;CA5B;CA9
TGFA;CD4;FBXO2;FLNTGFA;CD4;FBXO2;FLNA;LCK
ROPN1L;PRKAR2B;RAFROPN1L;PRKAR2B;RAPGEF4;PRKAG2;CABYR
CDKL3;CDC2;RAGE;CECDKL3;CDK1;MOK;CDK8;CDK2;CDKL1
DCLK1;IL1RL1;GNAZ;DCLK1;IL1RL1;GNAZ;NGF;TIAM1;SMAD1;PIP4K2B;NSMAF;RGS12;BRAF;NCR1
ATP11A;ATP8B3;ATP1ATP11A;ATP8B3;ATP10B;ATP11C;ATP10D;ATP13A3;ATP10A
PPP2R2C;PPP2R4;PPFPPP2R2C;PPP2R4;PPP2R2A;PPP2R3A;PPP2R3B
ALDH3A1;ALDH3A2;ALALDH3A1;ALDH3A2;ALDH7A1;ALDH1A1
PDGFRA;FLT4;PDGFREPDGFRA;FLT4;PDGFRB;NRP2
PREX2;ARAP3;DOCK4;PREX2;ARAP3;DOCK4;DLC1
FZD4;FZD6;FZD3;FZEFZD4;FZD6;FZD3;FZD3
S100B;S100P;TNNC1;S100B;S100P;TNC;TNNT3;MGP
MAP3K1;MAP3K6;MAP3MAP3K1;MAP3K6;MAP3K13;ZAK;MAP3K8
CAMK2D;CAMK1;CAMK2CAMK2D;CAMK1;CAMK2G;CAMK2A;CAMK2B
RPS4Y2;RPL37A;RPL9RPS4Y2;RPL37A;RPL9;RPL39L;MRPS25;MRPL52;MRPS36;MRPL2;MRPL2;NOV;MRPS5
LRP8;LDLR;VLDLR LRP8;LDLR;FLJ35024
RIN2;MADD;RIN2;ALS RASSF4;MADD;RIN2;ALS2
IL6ST;LIFR;OSMR IL6ST;LIFR;OSMR
MEN1;MSH6;MSH2 MEN1;MSH6;MSH2
MSH6;MSH2;MSH3 MSH6;MSH2;MSH3
MSH6;MSH2;MSH3 MSH6;MSH2;MSH3
MSH6;MSH2;MSH3 MSH6;MSH2;MSH3
GFM1;ABTB1;GFM2;TCGFM1;ABTB1;GFM2;TCEA3;TCEA2
NTAL_HUMAN;SQSTM1;LAT2;SQSTM1;PAG1;LCK;DLC1
GGT7;GGTLC2;GGT2;GGGT7;GGTLC2;GGT2;GGTLC3
ARFIP2;EEA1;RAPGEF ARFIP2;EEA1;RAPGEF5;RAC1
HDAC9;HDAC6;ZBTB16HDAC9;HDAC6;ZBTB16;TCF7L2;NKRF;TCF4

CDKN1A;CDKN2A;CDKN CDKN1A;CDKN2A;CDKN2B;CASP3
CTNNB1;ADSSL1;ADAM CTNNB1;ADSSL1;ADAM9;GHR;TAP2
SMAD3;CUL9;CUL4B;C SMAD3;CUL9;CUL4B;CUL4A;SMAD1
PFKFB3;PFKFB4;PFKF PFKFB3;PFKFB4;PFKFB2
ENO2;ENO1;ENO3 ENO2;ENO1;ENO3
EPHX2;LTA4H;RNPEP EPHX2;LTA4H;RNPEP
EPB41;ADD2;ANK1 EPB41;ADD2;ANK1
NARS2;DARS;DARS2 NARS2;DARS;DARS2
MGEA5;HEXB;HEXA MGEA5;HEXB;HEXA
PKIG;PRKAG2;PKIB PKIG;PRKAG2;PKIB
BDKRB2;PLCD4;PLCD1 BDKRB2;PLCD4;PLCD1;PLCG2;EDNRA
PLA2G4A;PLB1;MGLL;PLA2G4A;PLB1;MGLL;LYPLAL1
SLC2A5;SLC2A14;SLC SLC2A5;SLC2A14;SLC2A3;SLC2A1
ARSJ;ARSK;ARSB;ARS ARSJ;ARSK;ARSB;ARSD
HDAC6;TOP2A;BCOR;F HDAC6;TOP2A;BCOR;KAT2B
COL25A1;APBB2;APBE COL25A1;APBB2;APBB1;MAPK8IP2
MT1M;SLC11A2;MT1G;MT1M;SLC11A2;MT1G;MT1F
ARHGAP29;ARHGAP26;ARHGAP29;ARHGAP26;ERRFI1;ARHGAP6;HGF
SOCS2;PIK3R1;IGF1;SOCS2;PIK3R1;IGF1;IGF1
FMNL3;DAAM2;DAAM1;FHOD3;DAAM2;DAAM1;ECT2;FMNL1
MED24_HUMAN;TRIP12MED24;TRIP12;JMJD1C;MED12;NCOA3
FGF13;MADD;MAPK8IF FGF13;MADD;MAPK8IP2;PRKAG2
LOXL2;LOXL3;LOXL4 LOXL2;LOXL3;LOXL4
SMG5;SMG7;PPP2R4 SMG5;SMG7;PPP2R4
PDGFRA;PDGFA;PDGFR PDGFRA;PDGFA;PDGFRB
FGFR2;FGFR3;FGFR1 FGFR2;FGFR3;FGFR1
MAOB;ABP1;MAOA MAOB;DAO;MAOA
GLB1L2;GLB1L;GLB1 GLB1L2;GLB1L;EBP
ARAP2;ARAP3;ADAP2 ARAP2;ARAP3;ADAP2
AASDH;FASN;ALDH1L1 AASDH;FAS;ALDH1L1
SULT1C3;SULT1A1;SU SULT1C3;SULT1A1;SULT1A2
LMBRD1;MIPEP;METAF LMBRD1;MIPEP;MAP2;SLC11A2
ECE1;OXTR;PRLR;GHR ECE1;OXTR;PRLR;GHR
TXNRD1;STAB1;PTGES TXNRD1;STAB1;GBF1;GLRX
SERPINA1;BDKRB2;SE SERPINA1;BDKRB2;SERPINE1;MDP1
CALD1;MYRIP;ARFGEF CALD1;MYRIP;ARFGEF1;TRPM7
SYTL2;NLGN4X;NLGN1 SYTL2;NLGN4X;NLGN1
APOBEC3G;APOBEC3F;APOBEC3G;APOBEC3F;CDA
ROBO2;SEMA5A;EPHB2 ROBO2;SEMA5A;EPHB2
NR4A3;THRB;NR1H3 NR4A3;THRB;NR1H3
PPIE;PPIG;NKTR PPIE;PPIG;NKTR
MCM2;ORC2L;ORC4L;MCCNL1;ORC2;ORC4;MCM2
PCNA;MSH6;MSH2 PCNA;MSH6;MSH2
NOD2;C9orf89;RIPK2 NOD2;C9orf89;RIPK2
SORD;PHGDH;GAPDH;N SORD;PGD;GAPDH;NNT;PARP1
MDM2;ACIN1;HMOX1;HMDM2;ACIN1;HMOX1;HDAC2;NOD2;HDAC1;PRKCD;RAC1;CD40;DFFB;ANK1;MAPT;RFC5;S
MSLN;SLC7A8;TAPBP;MSLN;LAT2;TAPBP;SLC7A8;TAP2
CDKN1A;TRIB2;PKIG;CDKN1A;TRIB2;PKIG;WNK1;PKIB
ZNF143;SOX9;MEIS2;ZNF143;SOX9;MEIS2;GLIS3;SLC12A8
LDLRAP1;MMS19;NCK1 LDLRAP1;MMS19;NCK1;G3BP2
USP9Y;USP25;USP1;U USP9Y;USP25;USP1;USP13
CD44;STAB1;VCAN;LYCD44;STAB1;VCAN;LYVE1

TGM2;SHROOM2;SHC4;TGM2;SHROOM2;SHC4;SP100;MED12;YWHAZ;NCK1;NEDD4;TJP1;DLC1;CHMP2B
PFKFB3;PFKFB4;PFKF PFKFB3;PFKFB4;PFKFB2
NQO1;CYB561;CYB5R3NQO1;CYB561;CYB5R3
THBS1;ADAM9;AGRN THBS1;ADAM9;AGRN
CACNB3;CACNA2D1;CACACNB3;CACNA2D1;CACNA1D
GRK5;GRK4;ADRBK2 GRK5;GRK4;ADRBK2
SORBS3;ACTN1;TLN1 SORBS3;ACTN1;TLN1
SNUPN;NCBP2;EIF4E SNUPN;NCBP2;EIF4E
NPAS2;AHR;ARNTL NPAS2;AHR;ARNTL
PTPN4;ACP1;PTPN12 PTPN4;ACP1;PTPN12
SLC6A5;SLC6A13;SLC NET1;SLC6A13;SLC6A9;SLC6A1
SPEF2;DBP;STK3;FOS SPEF2;DBP;STK3;FOSL1;ZMYM1;CPS1;CREB3L2;DDIT3;ZNF862;ZNF618;AR;CREB3L3;
PMS2;ANKRD17;TDG;M PMS2;ANKRD17;TDG;MSH3
LDLRAP1;NCALD;HIP1 LDLRAP1;NCALD;HIP1
DMD;CTTNBP2;CAV1 DMD;CTTNBP2;CAV1
PABPC4;PABPC1;EIF4PABPC4;PABPC1;EIF4A3
SHROOM2;ACCN2;SCNN SHROOM2;ASIC1;SCNN1A
SMA5;HEXB;GBE1;LCT SMA5;HEXB;GBE1;LCTL;HEXA;MANBA;NAGA
ABCC9;KCNMB1;DRD4;ABCC9;KCNMB1;DRD4;KCNS3
CHD3;ERCC3;DDX11;C CHD3;ERCC3;DDX11;CHD1
TGM2;TGM5;F13A1 TGM2;TGM5;F13A1
DDX54;MMS19;RERG DDX54;MMS19;RERG
CROCC;KIFAP3;MAPK8 CROCC;KIFAP3;MAPK8IP2
SLC9A8;SLC9A9;SLC9 SLC9A8;SLC9A9;SLC9A7
JAG1;NCOR2;SNW1 JAG1;NCOR2;SNW1
AGPAT5;AGPAT1;LCLA AGPAT5;AGPAT1;LCLAT1
PDIA6;TMX3;PDIA5 PDIA6;TMX3;PDIA5
CPOX;ATXN1;CCDC88C CPOX;ATXN1;CCDC88C
ANO2;APOL1;ANO8;FX ANO2;APOL1;ANO8;FX YD1;ANO6;ABCC4
CFB;CDKN2A;APOM;NF CFB;CDKN2A;APOM;NPM1
SLC4A8;SLC4A7;SLC4 SLC4A8;SLC4A7;SLC4A4;ABCA1;SLC4A2;SLC4A5;SLC4A5;SLC4A9;SLC4A3
SLC14A1;SLC14A2 SLC14A1;SLC14A2
SLC4A7;SLC4A4;SLC4 SLC4A7;SLC4A4;SLC4A5
PTGS2;PTGS1 PTGS2;PTGS1
LDLRAP1;SMAD3 LDLRAP1;SMAD3
LRP8;MAPT LRP8;MAPT
MICA;CD1D MICA;CD1D
MICA;MICB MICA;MICB
PPP2R4;IGFBP3 PPP2R4;IGFBP3
BCKDHB;BCKDHA;BCKE BCKDHB;BCKDHA;TMEM91
SOCS2;SH2B2 SOCS2;SH2B2
SLC25A15;SLC25A2 ORC1;ORC2
HOMER2;SHANK2 HOMER2;SHANK2
SAT1;SAT2 SAT1;SAT2
SLC38A1;SLC38A1;SL SAT1;SLC38A1;NAT1
ESR1;ESR2 ESR1;ESR2
TK1;TK1;TK2 TK1;TK2;TK2
IL6ST;LIFR IL6ST;LIFR
MDFIC;NPM1 MDFIC;NPM1
POLG2;GARS POLB;SMAD1
OXSM;FASN OXSM;FAS
RAPGEF5;RAPGEF2 RAPGEF5;RAPGEF2

| | |
|--------------------|---|
| MSH6;MSH3 | MSH6;MSH3 |
| MSH6;MSH2 | MSH6;MSH2 |
| ACO1;ACO2 | ACO1;ACO2 |
| MSH2;MSH3 | MSH2;MSH3 |
| MTIF3;MTIF2 | MTIF3;MTIF2 |
| PLCD1;GAPVD1 | PLCD1;GAPVD1 |
| SLC6A5;SLC6A9 | NET1;SLC6A9 |
| PLXNB1;PLXNA1 | PLXNB1;NOV |
| PLXNB1;SEMA3C | PLXNB1;SEMA3C |
| INPP4B;INPP4A | INPP4B;INPP4A |
| INPP4B;INPP4A | INPP4B;INPP4A |
| CARS2;CARS | CARS2;CARS |
| GHR;NEDD4 | GHR;NEDD4 |
| TPST1;TPST2 | TPST1;TPST2 |
| GARNL3;RIN2;TNIK;M | GARNL3;RASSF4;TNIK;MAP4K1;EBF3;RALGDS;MAP4K2;MAPRE3;MAP4K4;CDC42BPG;CDC |
| CPXM2;CPZ;CPXM1;AG | CPXM2;CPZ;CPXM1;AGTPBP1 |
| ITPR1;ITPR2;TPCN1; | ITPR1;ITPR2;TPCN1;CACNA2D3;TRPV1;TRPM7 |
| HSD17B6;HSD17B4;HS | HSD17B6;DBP;HSD17B7 |
| RECK;COL4A3;TIMP4 | RECK;COL4A3;TIMP4 |
| TNK2;IP05;CDC42SE1 | TNK2;IP05;CDC42SE1 |
| ARFIP2;DOCK4;FLNA | ARFIP2;DOCK4;FLNA |
| QRSL1;PET112L;FAAH | QRSL1;PET112;FAAH |
| POLA1;CDA;SLC28A3 | POLA1;CDA;SLC28A3 |
| MCTP2;CPNE3;SYT3;E | MCTP2;CPNE3;SYT3;DOC2B |
| CRIM1;WISP3;KAZALD | CRIM1;WISP3;KAZALD1;NOV |
| ATAD2;ENTPD3;RFC4; | ATAD2;ENTPD3;RFC4;ORC1;TRIP13;MCM7;ORC4;SRP54;NAV1;RAD51B;GPN1;MCM2;NAV |
| DHX15;DDX17;DDX1;E | DHX15;DDX17;DDX1;DDX10 |
| GRK5;ADAM9;TOP2A | GRK5;ADAM9;TOP2A |
| ACPL2;HISPPD1;ACP1 | ACPL2;PIP5K2;ACP1 |
| PPARGC1A;MED24_HUM | PPARGC1A;MED24;TRERF1;MED12 |
| GRK5;APOB;OSBPL1A; | GRK5;APOB;OSBPL1A;ABCA1;PLA2G2A;TIAM1;SEC14L2;FAAH |
| KCNA5;KCNH1;KCNS3 | HK2;KCNH1;KCNS3 |
| TGFA;MAPKAPK3;MAP2 | TGFA;MAPKAPK3;MAP2K3 |
| ITPR1;SLC8A1;ITPR2 | ITPR1;SLC8A1;ITPR2 |
| ACBD5;SOAT1;ACBD6 | ACBD5;ACAT1;ACBD6 |
| DMGDH;SLC19A2;SLC1 | DMGDH;SLC19A2;SLC19A3 |
| SLCO2A1;APOL3;APOE | SLCO2A1;APOL3;APOB;APOM;APOD |
| LEPREL1;LEPRE1 | LEPREL1;LEPRE1 |
| VEGFA;THBS1 | VEGFA;THBS1 |
| PFKP;PFKL | PFKP;PFKL |
| ITPR1;ITPR2 | ITPR1;ITPR2 |
| CDKN1A;MDFIC | CDKN1A;MDFIC |
| NOTCH4;AGPAT1;NOTC | NOTCH3;AGPAT1;NOTCH4 |
| ST3GAL4;ST3GAL1 | ST3GAL4;ST3GAL1 |
| SDHA;SDHC | SDHA;SDHC |
| ACSS2;ACSS1 | ACSS2;ACSS1 |
| MGLL;CEL | MGLL;FAP |
| CACNA1I;CACNA1G | CACNA1I;CACNA1G |
| AMPD3;AMPD2 | AMPD3;AMPD2 |
| MGAT4B;MGAT4A | MGAT4B;MGAT4A |
| BDKRB2;AGT | BDKRB2;AGT |
| CYB561;FRRS1 | CYB561;FRRS1 |

| | |
|--|----------------------------|
| PDE1C;PDE1B | PDE1C;PDE1B |
| RCAN2;SOD1 | RCAN2;SOD1 |
| TARSL2;TARS | TARSL2;TARS |
| ADCY3;ADCY8 | ADCY3;ADCY3 |
| ALDOA;ALDOC | ALDOA;ALDOC |
| PLOD1;PLOD3 | PLOD1;PLOD3 |
| TAPBP;TAP2 | TAPBP;TAP2 |
| CD74;CD4 | CD74;CD4 |
| ADC;PRLR | ADC;PRLR |
| ARAP3;ADAP2 | ARAP3;ADAP2 |
| MRPL44;RNASEN | MRPL44;DROSHA |
| SOD1;SOD3 | SOD1;SOD3 |
| MSH2;HPRT1 | MSH2;HPRT1 |
| ETNK2;CHKB | ETNK2;CHKB |
| ETNK2;CHKB | ETNK2;CHKB |
| ADRA1D;ADRA1A | ADRA1A;ADRA1A |
| ALDH1A1;ALDH1A2 | ALDH1A1;ALDH1A2 |
| PYGL;TOP2A;DRD4;PF | PYGL;TOP2A;DRD4;PPARG |
| AK5;TK1;TK1;AK2 | AK5;TK1;TK2;AK2 |
| HLA-DPA1;HLA-DRB1;HLA-DPA1;HLA-DRB3;HLA-DRB3 | |
| TTLL7;TTLL3;TTL | TTLL7;TTLL3;TTL |
| MPHOSPH1;PMEPA1;SCMPP1;PMEPA1;SCNN1A | |
| NCL;HNRNPD;SMG6 | NCL;HNRNPD;SMG6 |
| CYP21A2;ESR1;NR3C1 | CPS1;ESR1;NR3C1;PAQR5;ESR2 |
| SLC47A1;SLC47A2;EE | SLC47A1;SLC47A2;EBP |
| SCN10A;SCN4B;SCN1E | SCN10A;SCN4B;SCN1B |
| KCNMB1;KCNMB4;KCNI | KCNMB1;KCNMB4;KCNT2 |
| CLCNKB;CLIC6;CLCN4 | CLCNKB;CLIC6;CLCN4 |
| SOAT1;ABCA1;CAV1 | ACAT1;ABCA1;CAV1 |
| AKR1C1;AKR1C3 | AKR1C1;AKR1C3 |
| S100A1;S100B | S100A1;S100B |
| CSGALNACT1;CHSY3 | CSGALNACT1;CHSY3 |
| ITPR1;ITPR2 | ITPR1;ITPR2 |
| HSD17B6;AKR1C3 | HSD17B6;AKR1C3 |
| STAT1;SP110 | STAT1;SP110 |
| ERAP1;IL6 | ERAP1;HGF |
| P4HA1;P4HA2 | P4HA1;P4HA2 |
| PLK2;PLK3 | PLK2;PLK3 |
| PYGL;HPRT1 | PYGL;HPRT1 |
| PYGL;GCK | PYGL;GK |
| GK;GK3P | GK;GK |
| TOP2A;TOP1MT | TOP2A;TOP1MT |
| RRM2;RRM2B | RRM2;RRM2B |
| IL6ST;LIFR | IL6ST;LIFR |
| CCDC111;POLA1 | CCDC111;POLA1 |
| ELP3;PRKAG2 | ELP3;PRKAG2 |
| GTF2A2;CAND2 | GTF2A2;CAND2 |
| ASPH;ASPHD1 | ASPH;ASPHD1 |
| MSH2;MSH3 | MSH2;MSH3 |
| SLC6A13;SLC6A1 | SLC6A13;SLC6A1 |
| TOP1MT;TOP3B | TOP1MT;TOP3B |
| AR;ALDH1A1 | AR;ALDH1A1 |

| | |
|--|-------------------------------|
| SERGEF;ALS2 | SERGEF;ALS2 |
| SLC36A1;SLC38A3 | SLC36A1;NAT1 |
| SLC19A2;SLC19A3 | SLC19A2;SLC19A3 |
| SLC11A2;ADI1 | SLC11A2;ADI1 |
| KCNJ5;KCNJ6 | KCNJ5;KCNJ6 |
| EPHA2;EPHA4;EPHB6 | EPHA2;EPHA4;EPHB6 |
| ACSS2;PYGL;ACSS1 | ACSS2;PYGL;ACSS1 |
| CMAH;XDH;RFESD | CMAHP;XDH;RFESD |
| CHAF1B;NPM1;CHAF1E | CHAF1B;NPM1;MPP7;BRD7 |
| CACNA1A;CTTNBP2;SY | CACNA1A;CTTNBP2;SYT3 |
| POLR3A;POLR2B;POLR | POLR3A;POLR2B;POLR2D;CTDP1 |
| SHROOM2;TCF7L2;PTF | SHROOM2;TCF7L2;PTPRU;TCF4 |
| AKR1C1;PYGL | AKR1C1;PYGL |
| MOXD1;FRRS1 | MOXD1;FRRS1 |
| SMAD3;SMAD1 | SMAD3;SMAD1 |
| SLC8A1;TRAPPC10 | SLC8A1;TRAPPC10 |
| PREX2;ALS2 | PREX2;ALS2 |
| WIPF1;DBN1 | WIPF1;DBN1 |
| HSD17B4;SCP2 | DBP;SCP2 |
| PABPC4;ATXN1 | PABPC4;ATXN1 |
| AGPAT5;AGPAT1 | AGPAT5;AGPAT1 |
| MFSD9;S22AI_HUMAN | MFSD9;SLC22A18 |
| RFC4;RFC5 | RFC4;RFC5 |
| TXNRD1;TXNDC2 | TXNRD1;TXNDC2 |
| LASS4;LASS5 | CERS4;CERS5 |
| OGDH;HACL1 | OGDH;HACL1 |
| PIGU;PIGS | GAB1;PIGS |
| IRAK2;IKBKE | IRAK2;IKBKE |
| PCCA;PC | PCCA;PC |
| TNNC1;TNNT3 | TNC;TNNT3 |
| CDC2;CDK8 | CDK1;CDK8 |
| DNAJB6;AHSA2 | DNAJB6;AHSA2 |
| IGFBP2;IGFBP3 | IGFBP2;IGFBP3 |
| PTGER3;PTGER2 | PTGER3;PTGER2 |
| CTNNB1;PFKL;BARD1;CTNNB1;PFKL;BARD1;CTTNBP2;BTG1;SP100 | |
| ST3GAL6;ST6GALNAC2 | ST3GAL6;ST6GALNAC2;ST6GALNAC5 |
| TNFSF15;TN13B_HUMA | TNFSF15;TNFSF13B;TNFSF9 |
| SLC9A8;SLC9A9;SLC9 | SLC9A8;SLC9A9;SLC9A7 |
| ATP6V1B1;ATP5A1;AI | ATP6V1B1;ATP5A1;ATP6V1H |
| SOD1;DNAJB6;AHSA2 | SOD1;DNAJB6;AHSA2 |
| NDUFA10;NDUFS7;NDU | NDUFA10;NDUFS7;NDUFV3;NDUFB2 |
| TOP2A;RAD51L1;TTF2 | TOP2A;RAD51B;TTF2;RAD51C |
| ELP3;ISCU;ISCA2;IS | ELP3;ISCU;ISCA2;ISCA1 |
| EGFR;ESR1 | EGFR;ESR1 |
| ENTPD3;ENTPD6 | ENTPD3;ENTPD6 |
| SOCS5;HBEGF | SOCS5;HBEGF |
| HSD17B4;HADHB | DBP;HADHB |
| CENPF;SMC3 | CENPF;SMC3 |
| TLN1;RIPK2_HUMAN | TLN1;RIPK2 |
| DMGDH;SARDH | DMGDH;SARDH |
| SLC23A2;SLC23A1 | SLC23A2;SLC23A2 |
| RAD1;EXOSC10;REX02 | RAD1;EXOSC10;REX02 |

CTNNB1;EGFR;PIK3R1 CTNNB1;EGFR;PIK3R1
 PLA2G4A;PLB1;PNPLA PLA2G4A;PLB1;PNPLA3
 CACNA1A;CACNA1B;GRM7 CACNA1A;CACNA1B;GRM7
 S100A1;LCK S100A1;LCK
 PRKCZ;PIK3R1 PRKCZ;PIK3R1
 IL1RL1;IL1RAP IL1RL1;IL1RAP
 XDH;MOCS1 XDH;MOCS1
 SCIN;ADAP2 SCIN;ADAP2
 MYL3;PKNOX2 MYL3;PKNOX2
 PDE5A;PDE6B PDE5A;PDE6B
 ERO1L;ERO1LB ERO1L;ERO1LB
 MADD;LRDD MADD;PIDD
 PRKX;AKAP13 PRKX;AKAP13
 SRP54;SRP19 SRP54;SRP19
 LIFR;OSMR;LTBP2;LTBP1 LIFR;OSMR;LTBP2;LTBP2;LTBP2;LTBP1
 AK5;AK2 AK5;AK2
 TNFRSF19;TNFRSF14 TNFRSF19;TNFRSF14
 CILP2;ENPP1 CILP2;ENPP1
 RPN2;TUSC3 RPN2;TUSC3
 NT5E;NT5C2 NT5E;NT5C2
 FKBP5;NFATC1 FKBP5;NFATC1
 PDXDC1;BCKDHB;BCKD PDXDC1;BCKDHB;BCKDHA;TMEM91
 ELP3;NAT6;PCAF;NAT1 ELP3;NAT6;KAT2B;NAT10
 APOBEC3B;APOBEC3C;APOBEC3B;APOBEC3C;APOBEC3C;APOBEC3D
 GPX3;GPX2 GPX3;GPX2
 NPC1;PTCH1 NPC1;PTCH1
 LPIN1;LPPR3 LPIN1;LPPR3
 PIK3AP1;DOK5 PIK3AP1;DOK5
 LOR;PKP1 LOR;PKP1
 ATP2B4;ATP2C1 ATP2B4;ATP2C1
 ABCB9;TAP2 ABCB9;TAP2
 ADH1B;ADH5 ADH1C;ADH5
 ADRA1D;ADRA1A ADRA1A;ADRA1A
 PTGS2;PXDN;PTGS1 PTGS2;PXDN;PTGS1
 B4GALT4;B4GALT6;A4B4GALT4;B4GALT6;A4GALT
 VEGFA;COL11A1 VEGFA;COL11A1
 ZNF143;GTF3C1 ZNF143;GTF3C1
 THBS1;TGFB2 THBS1;TGFB2
 APOB;ABCA1 APOB;ABCA1
 DPP4;FAP DPP4;FAP
 SLC26A1;SLC26A6 SAT1;SLC26A6
 POP1;RPP25 POP1;RPP25
 IPO5;RANBP1 IPO5;RANBP1
 NRG1;TRRAP;TFDP2;MED24;TRIP13;PIR;BTG1;TMF1;NMI
 APOB;DKK1 APOB;DKK1
 PIK3C2B;ATM PIK3C2B;ATM
 SLC25A22;SLC25A12 SLC25A22;SLC25A12
 NME6;NME5 NME6;NME5
 LRPPRC;BBS4 LRPPRC;BBS4
 HSD17B4;NPC1 DBP;NPC1
 ZDHHC15;ZDHHC2 ZDHHC15;ZDHHC2
 IL18BP;ESR2 IL18BP;ESR2

| | |
|--------------------|------------------|
| ERAP1;RNPEP;METAP2 | ERAP1;RNPEP;MAP2 |
| TBP;GTF2A2;TAF1A | TBP;GTF2A2;TAF1A |
| CTNNB1;CDH13 | CTNNB1;CDH13 |
| COLEC11;BSG | CLK1;BSG |
| GRM7;HTT | GRM7;HTT |
| THBS1;ATP5A1 | THBS1;ATP5A1 |
| ATP6V1B1;ATP5A1 | ATP6V1B1;ATP5A1 |
| PRKAR2B;RAPGEF4 | PRKAR2B;RAPGEF4 |
| MAPK8;MAPK13 | MAPK8;MAPK13 |
| AKR1C1;AKR1C3 | AKR1C1;AKR1C3 |
| MYH10;MYO5A | MYH10;MYO5A |
| NTRK2 | NTRK2 |
| UGCG | UGCG |
| VEGFA | VEGFA |
| VEGFA | VEGFA |
| CHST1 | CHST1 |
| NNMT | NNMT |
| CSGALNACT1 | CSGALNACT1 |
| EDN1 | EDN1 |
| EGFR | EGFR |
| AKR1C3 | AKR1C3 |
| IL1RL1 | IL1RL1 |
| NQO1 | NQO1 |
| THBS1 | THBS1 |
| THBS1 | THBS1 |
| THBS1 | THBS1 |
| EPHX2 | EPHX2 |
| SLCO2A1 | SLCO2A1 |
| AS3MT | AS3MT |
| AS3MT | AS3MT |
| ERAP1 | ERAP1 |
| PDGFRA | PDGFRA |
| UPRT | UPRT |
| ACOX2 | ACOX2 |
| PDPK1 | PDK1 |
| RNASET2 | RNASET2 |
| CMAH | CMAHP |
| IL17RA | IL17RA |
| HSD17B4 | DBP |
| GCK | GK |
| GGH | GGH |
| NAMPT | NAMPT |
| CYP39A1 | CYP39A1 |
| CYP39A1 | CYP39A1 |
| PABPC4 | PABPC4 |
| NGF | NGF |
| XDH | XDH |
| MAP3K1 | MAP3K1 |
| RERE | RERE |
| MAP4K1 | MAP4K1 |
| CDKN2A | CDKN2A |
| DRD4 | DRD4 |

| | |
|---------------|---------------|
| TYMS | TYMS |
| AMACR;AMACR | C1QTNF3;AMACR |
| AASS | AASS |
| SORD | SORD |
| MCHR1 | MCHR1 |
| PHGDH | PGD |
| SLC6A3 | SLC6A3 |
| CPS1 | CPS1 |
| CYP21A2 | CPS1 |
| POLS | POLK |
| OAT | OAT |
| SLC37A4 | SLC37A4 |
| GALC | GALC |
| OXTR | OXTR |
| TBXAS1 | TBXAS1 |
| ABCA1 | ABCA1 |
| DPH5 | DPH5 |
| L2HGDH | L2HGDH |
| QPCT | QPCT |
| MYO6 | MYO6 |
| MET | MET |
| RNMT | MET |
| FN3K | FN3K |
| PPARG | PPARG |
| GPI | GPI |
| DNASE1 | DNASE1 |
| IL21R | IL21R |
| C1GALT1 | C1GALT1 |
| CYP51A1 | CYP51A1 |
| BCKDHA;BCKDHA | BCKDHA;TMEM91 |
| BCKDHA;BCKDHA | BCKDHA;TMEM91 |
| IL6ST | IL6ST |
| SLC6A6 | SLC6A6 |
| SLC6A6 | SLC6A6 |
| DPYD | DPYD |
| DPYD | DPYD |
| CEP290 | CEP290 |
| SPHK1 | SPHK1 |
| GNAS | GNAS |
| GBE1 | GBE1 |
| FASTK | FASTK |
| ADC | ADC |
| OGDH | OGDH |
| SEMA3A | SEMA3A |
| CRAT | CRAT |
| CSAD | CSAD |
| SREBF1 | SREBF1 |
| PCNA | PCNA |
| SLC6A8 | SLC6A8 |
| SLU7 | SLU7 |
| SLU7 | SLU7 |
| POP1 | POP1 |

| | |
|-----------------|-------------|
| SLC13A5 | SLC13A5 |
| HSD17B7 | HSD17B7 |
| CD01 | CD01 |
| PNPLA3 | PNPLA3 |
| PNPLA3 | PNPLA3 |
| LTA4H | LTA4H |
| PIGG | PIGG |
| HMGCR | HMGCR |
| SMS | SMS |
| NNT | NNT |
| NNT | NNT |
| CYP46A1 | CYP46A1 |
| NOD2 | NOD2 |
| PRLR | PRLR |
| AGL | AGL |
| AGL | AGL |
| AGT | AGT |
| AGXT | AGT |
| NAGK | NAGK |
| HNMT | HNMT |
| TRMT2B | TRMT2B |
| PTEN | PTEN |
| PTEN | PTEN |
| C14orf149 | C14orf149 |
| PRKCD | PRKCD |
| IL18BP | IL18BP |
| TNNT3 | TNNT3 |
| BCKDK | BCKDK |
| NR3C1 | NR3C1 |
| SLC6A2;SLC6A2 | NET1;NAT1 |
| LPHN2 | LPHN2 |
| NPL | NPL |
| FLNA | FLNA |
| FLNA | FLNA |
| H6PD | H6PD |
| UBA7 | UBA7 |
| SEPSECS;SEPSECS | SEPSECS;SLA |
| CDH13 | CDH13 |
| LCK | LCK |
| TDG | TDG |
| DMGDH | DMGDH |
| PIGL | PIGL |
| CD1D | CD1D |
| CDK2 | CDK2 |
| NADSYN1 | NADSYN1 |
| CHDH | CHDH |
| MANBA | MANBA |
| KIAA0100 | KIAA0100 |
| PPAT | PPAT |
| COASY | PPAT |
| COASY | PPAT |
| PC | PC |

| | |
|----------|----------|
| TTF2 | TTF2 |
| NEDD4 | NEDD4 |
| FAH | FAH |
| SLC35D1 | SLC35D1 |
| PIPOX | PIPOX |
| PIPOX | PIPOX |
| REV1 | REV1 |
| EPOR | EPOR |
| FDFT1 | FDFT1 |
| HTT | HTT |
| SLC6A4 | HTT |
| SLC6A4 | HTT |
| OGG1 | OGG1 |
| SLC22A12 | SLC22A12 |
| PGM2L1 | PGM2L1 |
| SCP2 | SCP2 |
| SLC19A2 | SLC19A2 |
| HGSNAT | HGSNAT |
| UGP2 | UGP2 |
| ALDH7A1 | ALDH7A1 |
| ALG13 | ALG13 |
| KCNMA1 | KCNMA1 |
| PTDSS2 | PTDSS2 |
| ADH5 | ADH5 |
| ADH5 | ADH5 |
| GART | GART |
| GART | GART |
| GART | GART |
| ALS2 | ALS2 |
| SLC11A2 | SLC11A2 |
| SLC11A2 | SLC11A2 |
| SLC11A2 | SLC11A2 |
| SLC11A2 | SLC11A2 |
| SLC11A2 | SLC11A2 |
| GSR | GSR |
| SLC28A3 | SLC28A3 |
| SLC28A3 | SLC28A3 |
| ADAT1 | ADAT1 |
| CBS | CBS |
| MMAB | MMAB |
| GLMN | FAP |
| PDXK | PDXK |
| HIBCH | HIBCH |
| SLC9A7 | SLC9A7 |
| STXBP2 | STXBP2 |
| STXBP2 | STXBP2 |
| NAGA | NAGA |
| FASN | FAS |
| FASN | FAS |
| FASN | FAS |
| FASN | FAS |
| F12 | F12 |

| | |
|--------------------|---|
| SDCBP | SDCBP |
| GALM | GALM |
| LIPC | LIPC |
| CARD8 | CARD8 |
| ATXN1 | ATXN1 |
| FAAH | FAAH |
| MCEE | MCEE |
| SLC1A3 | SLC1A3 |
| SARDH | SARDH |
| ENTPD4 | ENTPD4 |
| RAD51C | RAD51C |
| TRNT1 | TRNT1 |
| TRMU | TRNT1 |
| PPCS | PPCS |
| SLC38A3 | NAT1 |
| SLC38A3 | NAT1 |
| TGFBR2 | TGFBR2 |
| ST3GAL5 | ST3GAL5 |
| ST3GAL5 | ST3GAL5 |
| A4GALT | A4GALT |
| EDNRA | EDNRA |
| PTS | PTS |
| TAP2 | TAP2 |
| SORT1 | SORT1 |
| SORT1 | SORT1 |
| CCRL1;CCBP2;CCRL1 | CCRL1;CCBP2;CCBP2 |
| MED24_HUMAN;MED12 | MED24;MED12 |
| PIGN;PIGG | PIGN;PIGG |
| SLC38A1;SLC7A8;SLC | SAT1;LAT2;SLC38A1;SLC7A8 |
| KCNQ5;KCNJ15 | KCNQ5;KCNJ15 |
| EGFR;LRP8;TNFRSF14 | EGFR;LRP8;TNFRSF14;INTS6;TLR5;LDLR;BCAM;CD72;CD4;IL1RAP;TLR1;TLR3;TIRAP |
| THBS1;CDH13 | THBS1;CDH13 |
| GRIA1;GRIA3 | GRIA1;GRIA3 |
| IL15RA;IL12RB1;GHR | IL15RA;IL12RB1;GHR |
| PTGDS;APOD | PTGDS;APOD |
| PSMB8;PSMA4 | PSMB8;PSMA4 |
| VTI1A;STX17 | VTI1A;STX17 |
| TCEA3;TCEA2 | TCEA3;TCEA2 |
| AKR1C1 | AKR1C1 |
| AKR1C1 | AKR1C1 |
| LARS | LARS |
| S100A1 | S100A1 |
| CSGALNACT1 | CSGALNACT1 |
| BST1 | BST1 |
| ALOX15B | ALOX15B |
| KCNA5 | HK2 |
| ALDH3A1 | ALDH3A1 |
| S100B | S100B |
| EGFR | EGFR |
| PRDX2 | PRDX2 |
| ST6GAL2 | ST6GAL2 |
| AKR1C3 | AKR1C3 |

| | |
|-------------|------------|
| SLC2A5 | SLC2A5 |
| HPD | HPD |
| DCT | DCT |
| SDHA | SDHA |
| PHOSPHO2 | PHOSPHO2 |
| ANO1 | ANO1 |
| ATAD2 | ATAD2 |
| ADSSL1 | ADSSL1 |
| P2RY6 | P2RY6 |
| MDM2 | MDM2 |
| ABCC9 | ABCC9 |
| GPD2 | GPD2 |
| PON2 | PON2 |
| HDAC6 | HDAC6 |
| BDKRB2 | BDKRB2 |
| LRRFIP2 | LRRFIP2 |
| CHIT1 | CHIT1 |
| PALLD | PALLD |
| DZIP3 | DZIP3 |
| CYP39A1 | CYP39A1 |
| MGAT5 | MGAT5 |
| XDH | XDH |
| PRKDC | PRKDC |
| TPI1 | TPI1 |
| PTGDS | PTGDS |
| HMOX1 | HMOX1 |
| TFRC | TFRC |
| MGAT1 | MGAT1 |
| POFUT2 | POFUT2 |
| AASS | AASS |
| CYP2R1 | CYP2R1 |
| RBPJ | RBPJ |
| PTGR2 | PTGR2 |
| PLA1A | PLA1A |
| SOAT1 | ACAT1 |
| SOAT1 | ACAT1 |
| SOAT1 | ACAT1 |
| NARS2 | NARS2 |
| GBA | GBA |
| PFKL | PFKL |
| MYL3 | MYL3 |
| LBR | LBR |
| SMOX;SMOX | SMOX;SMO |
| AQP3 | AQP3 |
| ABCA1 | ABCA1 |
| GAPDH | GAPDH |
| PPARG | PPARG |
| HMGCS1 | HMGCS1 |
| GNPDA1 | GPI |
| HSD11B1 | HSD11B1 |
| FUCA1 | FUCA1 |
| ETFDH;ETFDH | MADD;ETFDH |

| | |
|---------|---------|
| IL6ST | IL6ST |
| IL6ST | IL6ST |
| ADRBK2 | ADRBK2 |
| DPYD | DPYD |
| GYS1 | GYS1 |
| PKM2 | PKM |
| SPHK1 | SPHK1 |
| MBD1 | PCM1 |
| PYCARD | PYCARD |
| BCAT2 | BCAM |
| PPP1R7 | PPP1R7 |
| GLUD1 | GLUD1 |
| GLUD1 | GLUD1 |
| CMAS | CMAS |
| GFRA2 | GFRA2 |
| NMT2 | NMT2 |
| ACADVL | ACADVL |
| MCCC2 | MCCC2 |
| RIC8B | RIC8B |
| RCL1 | RCL1 |
| SMS | SMS |
| MEN1 | MEN1 |
| PCCA | PCCA |
| PAPSS2 | PAPSS2 |
| PAPSS2 | PAPSS2 |
| NOX4 | NOX4 |
| TSHR | TSHR |
| AGT | AGT |
| NAGK | NAGK |
| CRHR1 | CRHR1 |
| SLC12A2 | SLC12A2 |
| PTEN | PTEN |
| PTEN | PTEN |
| RNF41 | RNF41 |
| ARSB | ARSB |
| MGP | MGP |
| SEC14L2 | SEC14L2 |
| EARS2 | EARS2 |
| INPP5K | INPP5K |
| IGFBP2 | IGFBP2 |
| CAMK2G | CAMK2G |
| CPOX | CPOX |
| H6PD | H6PD |
| H6PD | H6PD |
| ABCC4 | ABCC4 |
| MAN2A2 | MAN2A2 |
| LCK | LCK |
| IL1R1 | IL1R1 |
| GDI1 | GDI1 |
| DAO | DAO |
| DFFB | DFFB |
| DFFB | DFFB |

| | |
|---|----------------------------|
| PDE3A | PDE3A |
| NEDD4 | NEDD4 |
| NEDD4 | NEDD4 |
| NEDD4 | NEDD4 |
| NEDD4 | NEDD4 |
| ADPRH | ADPRH |
| APP | APP |
| HMGCL | HMGCL |
| PTH1R | PTH1R |
| AR | AR |
| OXCT1 | OXCT1 |
| XYLT2 | XYLT2 |
| CAMK2A | CAMK2A |
| HISPPD1 | PPIP5K2 |
| HISPPD1 | PPIP5K2 |
| HISPPD1 | PPIP5K2 |
| EXT2 | EXT2 |
| EXT2 | EXT2 |
| LIF | LIF |
| PDP1 | PDP1 |
| EBP | EBP |
| EBP | EBP |
| CEL | FAP |
| BBS4 | BBS4 |
| GLUL | GLUL |
| FASN | FAS |
| FASN | FAS |
| METTL3 | METTL3 |
| SDCBP | SDCBP |
| CTPS2 | CTPS2 |
| B4GALNT4 | B4GALNT4 |
| PDGFRB | PDGFRB |
| MARS | MARS |
| FAAH | FAAH |
| SLC23A2 | SLC23A2 |
| GPT2 | GPT2 |
| PGGT1B | PGGT1B |
| LONP1 | PIM1 |
| ASNS | ASNS |
| MTHFSD | MTHFSD |
| TAP2 | TAP2 |
| PRKRA;MMP16;MMP24;PRKRA;MMP16;MMP24;PPP1R12B;DBNL;PRKCD;DBF4;CTAGE5 | |
| VEGFA;PDGFA | VEGFA;PDGFA |
| PVRL3;VCAM1 | PVRL3;VCAM1 |
| DPYSL2;DPYSL4;NADS | DPYSL2;DPYSL4;NADSYN1;NIT2 |
| PPP1R1C;PHACTR2 | PPP1R1C;PHACTR2 |
| CTNNB1 | CTNNB1 |
| NTRK2 | NTRK2 |
| CP | CP |
| SLC14A1 | SLC14A1 |
| EDN1 | EDN1 |
| NRG1 | NRG1 |

| | |
|----------|----------|
| AKR1C3 | AKR1C3 |
| CRIM1 | CRIM1 |
| THBS1 | THBS1 |
| LPL | LPL |
| TKT | TKT |
| PON2 | PON2 |
| PYGL | PYGL |
| MUC4 | MUC4 |
| PIK3C2B | PIK3C2B |
| GPX3 | GPX3 |
| SOCS2 | SOCS2 |
| CRYZL1 | CRYZL1 |
| XPO7 | XPO7 |
| CYP26A1 | CYP26A1 |
| AGRN | AGRN |
| PGD | PGD |
| ACAT1 | ACAT1 |
| MAP3K11 | MAP3K11 |
| CENPE | CENPE |
| MAPK8 | MAPK8 |
| SPTLC3 | SPTLC3 |
| TAPBP | TAPBP |
| TAPBP | TAPBP |
| IDH3G | IDH3G |
| GUSB | GUSB |
| PKP1 | PKP1 |
| PTGES2 | GBF1 |
| BBS5 | BBS5 |
| LIG4 | LIG4 |
| OGDH | OGDH |
| ELN | ELN |
| CLASP2 | CLASP2 |
| CLASP2 | CLASP2 |
| SLC13A5 | SLC13A5 |
| TNNC1 | TNC |
| MAPK13 | MAPK13 |
| CDK5RAP2 | CDK5RAP2 |
| AGXT | AGT |
| MSH6 | MSH6 |
| PIK3R1 | PIK3R1 |
| PIK3R1 | PIK3R1 |
| RAPGEF2 | RAPGEF2 |
| SLC20A2 | SLC20A2 |
| GLYATL2 | GLYATL2 |
| TRIM24 | TRIM24 |
| TAF1A | TAF1A |
| ERCC3 | ERCC3 |
| ABP1 | DAO |
| GPAM | GPAM |
| MAPK8IP2 | MAPK8IP2 |
| PIP4K2B | PIP4K2B |
| SLC25A12 | SLC25A12 |

| | |
|--------------------|---------------------------------|
| PGM2 | PGM2 |
| EXOC2 | EXOC2 |
| SLC44A1 | SLC44A1 |
| AHCYL2 | AHCYL2 |
| FRZB | FRZB |
| EXT2 | EXT2 |
| POLR2B | POLR2B |
| SLC36A1 | SLC36A1 |
| SLC36A1 | SLC36A1 |
| AMY2A | AMY2A |
| GLRX | GLRX |
| UCHL1 | UCHL1 |
| MICALCL | MICALCL |
| CRTC1 | CRTC1 |
| IKBKE | IKBKE |
| EBP | EBP |
| CHST11 | CHST11 |
| FASN | FAS |
| PDGFRB | PDGFRB |
| DIO2 | DIO2 |
| ARNTL | ARNTL |
| ADAP2 | ADAP2 |
| LONP1 | PIM1 |
| NAT1 | NAT1 |
| ALDH1L1 | ALDH1L1 |
| TGFBR2 | TGFBR2 |
| TRIOBP | TRIOBP |
| RFX3;LEF1 | RFX3;LEF1 |
| ABCA4;ABCA1 | ABCA4;ABCA1 |
| P2RY6;LPAR4 | P2RY6;LPAR4 |
| MAGI2;SBF2 | MAGI2;SBF2 |
| MGAT4B;MGAT4A;CHSY | MGAT4B;MGAT4A;CHSY3;ALG13;GBGT1 |
| KCNK2 | KCNK2 |
| IGF2BP1 | IGF2BP1 |
| LDLRAP1 | LDLRAP1 |
| SLC8A1 | SLC8A1 |
| EIF2AK3 | EIF2AK3 |
| ACOX2 | ACOX2 |
| DNMT3A | DNMT3A |
| AKR1B1;AKR1B1 | AKR1B1;AR |
| MYST2 | KAT7 |
| GC | DBP |
| MOGAT1 | MGAT1 |
| MOGAT1 | MGAT1 |
| ALDOA | ALDOA |
| CYP26A1 | CYP26A1 |
| LPCAT1 | LPCAT1 |
| SLC12A7 | SLC12A7 |
| B4GALT4 | B4GALT4 |
| DPYSL2 | DPYSL2 |
| PMS2 | PMS2 |
| RAD1 | RAD1 |

| | |
|-----------------|-----------------|
| KDEL3 | KDEL3 |
| STAT5B | STAT5B |
| PIK3R1 | PIK3R1 |
| NEU3 | NEU3 |
| SLC22A5 | SLC22A5 |
| GABBR1 | GABBR1 |
| TNNT3 | TNNT3 |
| PANK1 | PANK1 |
| EIF5A | EIF5A |
| HADHB | HADHB |
| CHSY3 | CHSY3 |
| PHKA2 | PHKA2 |
| ST8SIA1 | ST8SIA1 |
| SLC01B1 | LST1 |
| SLC11A2 | SLC11A2 |
| TPR | TPR |
| BBS4 | BBS4 |
| PLSCR1 | PLSCR1 |
| SLC1A3 | SLC1A3 |
| ENPP1 | ENPP1 |
| ENPP1 | ENPP1 |
| ATP6VOD1 | ATP6VOD1 |
| SLC40A1 | SLC40A1 |
| CPT1B | CHKB |
| ABCA1;FGD6;FLNA | ABCA1;FGD6;FLNA |
| CYP26A1;CYP19A1 | CYP26A1;CYP19A1 |
| CHRM2 | CHRM2 |
| RYR1 | RYR1 |
| APOL2;APOL2 | APOL3;APOL2 |
| MUC4 | MUC4 |
| CHST6 | CHST6 |
| SOCS2 | SOCS2 |
| PAPD4 | PAPD4 |
| ZFP106 | ZFP106 |
| OXTR | OXTR |
| DARS | DARS |
| PRCP | PRCP |
| PRPSAP1 | PRPSAP1 |
| ART4 | DOK1 |
| PMS2 | PMS2 |
| PIGU | GAB1 |
| NOX4 | NOX4 |
| LGALS3 | LGALS3 |
| NUP98 | NUP98 |
| HDHD3 | HDHD3 |
| PLEKHA8 | PLEKHA8 |
| SLC6A2;SLC6A2 | NET1;NAT1 |
| ADH1C | ADH1C |
| RCVRN | RCVRN |
| LDHA | LDHA |
| PADI4 | PADI4 |
| PITPNM3 | PITPNM3 |

| | |
|--------------------|--------------------------|
| SLC36A1 | SLC36A1 |
| SLC19A2 | SLC19A2 |
| EPHB2 | EPHB2 |
| LUC7L | LUC7L |
| FDXACB1 | FDXACB1 |
| CHST11 | CHST11 |
| PIGP | PIGP |
| PDXK | PDXK |
| TRIOBP | TRIOBP |
| SORT1 | SORT1 |
| LARGE;XYLT2 | LARGE;XYLT2 |
| NRCAM | NRCAM |
| ALOX15B | ALOX15B |
| HK2 | HK2 |
| CILP2 | CILP2 |
| SCIN | SCIN |
| HMGB2 | HMGB2 |
| PPARG | PPARG |
| ELP3 | ELP3 |
| FM04 | FM04 |
| MYH10 | MYH10 |
| BMPR1B | BMPR1B |
| PABPC1 | PABPC1 |
| SCLT1 | SCLT1 |
| TRPC1 | TRPC1 |
| HRH1 | HRH1 |
| MAN2A2 | MAN2A2 |
| LCK | LCK |
| HADHB | HADHB |
| PXDN | PXDN |
| SUPT16H | SUPT16H |
| SLC11A2 | SLC11A2 |
| BCL6 | BCL6 |
| RANBP1 | RANBP1 |
| ENPP1 | ENPP1 |
| ALDH1L1 | ALDH1L1 |
| RNF14;UBE2V1;UBL4A | RNF14;UBE2V1;UBL4A;UBE2F |
| MCHR1;NPFFR1 | MCHR1;NPFFR1 |
| GRIA1 | GRIA1 |
| SAMD4A | SAMD4A |
| HMOX1 | HMOX1 |
| ACSM5 | ACSM5 |
| PLA2G2A | PLA2G2A |
| PLEKHA8 | PLEKHA8 |
| INPP5K | INPP5K |
| SLC20A2 | SLC20A2 |
| SLC7A2 | SLC7A2 |
| TNP01 | TNP01 |
| CCBP2 | CCBP2 |
| P2RX6 | P2RX6 |
| TRAK2 | TRAK2 |
| TGFBR2 | TGFBR2 |

| | |
|----------------------|-----------------------|
| NF1; IQGAP3; ALDH1A1 | NF1; IQGAP3; ALDH1A1 |
| KCNQ3; KCTD9; KCNMA1 | KCNQ3; KCTD9; KCNMA1 |
| SOD1; SOD3 | SOD1; SOD3 |
| CFB | CFB |
| RYR1 | RYR1 |
| SECISBP2 | SECISBP2 |
| LMBRD1 | LMBRD1 |
| NTRK1 | NTRK1 |
| SLC38A1; SLC38A1 | SAT1; SLC38A1 |
| EGLN1 | EGLN1 |
| NR2F1 | NR2F1 |
| FPR1 | FPR1 |
| NUP160 | NUP160 |
| SHMT1 | SHMT1 |
| BRCA2 | BRCA2 |
| RERG | RERG |
| NEIL3 | NEIL3 |
| ADARB1 | ADARB1 |
| UBA6 | UBA6 |
| SLC1A3 | SLC1A3 |
| LONP1 | PIM1 |
| ZFP36L1; GRSF1 | ZFP36L1; GRSF1 |
| TNFAIP8 | TNFAIP8 |
| PPARG | PPARG |
| GUCY1B3 | GUCY1B3 |
| MFI2 | MFI2 |
| SLC22A14 | SLC22A14 |
| PET112L; ABCF1; GCN1 | PET112; ABCF1; GCN1L1 |
| CHRD; CD74; CRLF1 | CHRD; CD74; CRLF1 |
| HSD17B6 | HSD17B6 |
| FCGR2A | FCGR2A |
| PPFIBP2 | PPFIBP2 |
| DUSP10 | DUSP10 |
| AQP3 | AQP3 |
| PDE5A | PDE5A |
| ACSL5 | ACSL5 |
| SLC30A8 | SLC30A8 |
| ATP1B1 | ATP1B1 |
| FSTL3 | FSTL3 |
| DCLRE1C; POLG | DCLRE1C; MDP1 |
| GC | DBP |
| AKAP6 | AKAP6 |
| ABCC2 | ABCC2 |
| ADCY2 | ADCY2 |
| SEC61A2 | SEC61A2 |
| SKIL | SKIL |
| LYN | LYN |
| SLC25A10 | SLC25A10 |
| PUS7L | PUS7L |
| STAB1 | STAB1 |
| TYW1B | TYW1B |
| CYP46A1 | CYP46A1 |

| | |
|--------------------|---|
| FRAP1 | MTOR |
| TDG | TDG |
| PC | PC |
| ACIN1;DHX40;ZBTB46 | ACIN1;DHX40;ZBTB46;NARS2;DARS;DHX57;DHX15;RP9;SLU7;C3orf33;ZCCHC2;DDX27 |
| PTGER3;AHR | PTGER3;AHR |
| EIF2A | EIF2A |
| RARB | RARB |
| PGM2L1 | PGM2L1 |
| PGGT1B | PGGT1B |
| CRIM1;SCG5;PRPSAP1 | CRIM1;SCG5;PRPSAP1;TXNIP;TIMP4 |
| MAPKAP1;RIN3 | MAPKAP1;RIN3 |
| CAPN3 | CAPN3 |
| CHRNE | CHRNE |
| LTBP1 | LTBP1 |
| SMAD3 | SMAD3 |
| CRYGS | CRYGS |
| ALDOA;NCALD | ALDOA;NCALD |
| ACAT1;NAT1 | ACAT1;NAT1 |
| GRIA3 | GRIA3 |
| AASDH | AASDH |
| ERCC4 | RAD1 |
| CD4 | CD4 |
| AGXT | AGT |
| CHRNE | CHRNE |
| CHRFAM7A;CHRNE | CHRFAM7A;CHRNE |
| NEIL3 | NEIL3 |
| CAV1 | CAV1 |
| RPS4Y2 | RPS4Y2 |
| DDX17 | DDX17 |
| ISCU | ISCU |
| C3;PROS1;C5 | C3;PROS1;C5 |
| FBXO2;MAN2A2;ALG13 | FBXO2;MAN2A2;ALG13;EPM2A;GALM |
| SLC16A4 | SLC16A4 |
| SRP54 | SRP54 |
| LONP1 | PIM1 |
| CX3CR1 | CCRL1 |
| SRRM1 | SRRM1 |
| DLGAP5;CTDSP2;CTDF | DLGAP5;SCP2;CTDP1 |
| BIRC6 | BIRC6 |
| CES1;CES2 | CES2;CES2 |
| COX7A2L | COX7A2L |
| ADH5 | ADH5 |
| MAPT | MAPT |
| ATP6V0E2;SLC36A1 | ATP6V0E2;SLC36A1 |
| CSGALNACT1 | CSGALNACT1 |
| SPTLC3 | SPTLC3 |
| GRM7 | GRM7 |
| DNASE1 | DNASE1 |
| SLC25A16 | SLC25A16 |
| NALCN | NALCN |
| PSMB8;PCSK5;ANPEP | PSMB8;PCSK5;ANPEP |
| PEG10 | PEG10 |

| | |
|--------------------|---|
| SLC7A8;SLC7A8 | LAT2;SLC7A8 |
| P2RX6 | P2RX6 |
| PIGW | PIGW |
| SUZ12 | SUZ12 |
| GNAZ;GNA01;GNAL;GN | GNAZ;GNA01;GNAL;GNAS;GNAS |
| MCM7;MCM7 | MCM7;MCM2 |
| PIK3C2B | PIK3C2B |
| HACL1 | HACL1 |
| IGF2BP1;MRPL37 | IGF2BP1;MRPL2 |
| NDUFS7 | NDUFS7 |
| HEMK1 | HEMK1 |
| KCNIP1;KCNJ15 | KCNIP1;KCNJ15 |
| PHGDH;AASDH;FASN | PGD;AASDH;FAS |
| TRIB2;IRAK2;COL4A3 | TRIB2;IRAK2;COL4A3BP;STRADB;NRBP1;FASTKD1;PXK |
| HS6ST1 | HS6ST1 |
| NDUFS7 | NDUFS7 |
| SBF2 | SBF2 |
| HEMK1 | HEMK1 |
| STK39 | STK39 |
| MTMR1;MTMR11;SBF2 | MTMR1;MTMR11;SBF2 |
| PGAP1;PGAP1;DFFB | BST1;PGAP1;DFFB |
| TACC2 | TACC2 |
| EPB41L5;EPB41L4B;A | EPB41L5;EPB41L4B;ALDOC;PTPN3;PTPN4 |
| RNASET2 | RNASET2 |
| PRCP;PRSS16 | PRCP;PRSS16 |
| LPL | LPL |
| DOCK9 | DOCK9 |
| ZFX;BRWD1;SSBP2;ZF | ZFX;BRWD1;SSBP2;ZFY;HIF3A;EBF3;EBF1;MEN1;NCOA3;SP7;MXI1;TAL1;RFX2;CNOT2 |
| SLC39A8;SLC39A10;S | SLC39A8;SLC39A10;SLC39A5 |
| PLB1 | PLB1 |
| DDX54;SKIV2L;CHD3; | DDX54;SKIV2L;CHD3;CHD5;DDX11;SMARCA4;SMARCA2 |
| UFSP2 | UFSP2 |
| CHRFAM7A | CHRFAM7A |
| IDH3G | IDH3G |
| TGFBR2 | TGFBR2 |
| NDUFA10;TRRAP;PIK3 | NDUFA10;TRRAP;PIK3C2B;TK2;MTOR;PSTK |
| SLC2A9;SLC2A5;SLC2 | SLC2A9;SLC2A5;SLC2A12;SLC2A14;SLC2A3;SLC2A13;SLC2A1 |
| BCKDHA;BCKDHA | BCKDHA;TMEM91 |
| PYGL | PYGL |
| NQO1 | NQO1 |
| SLC41A3;SFXN5;CHRN | SLC41A3;SFXN5;CHRNE;SLC30A8 |
| PIGW | PIGW |
| SLC25A10 | SLC25A10 |
| NT5E;C3orf33;FASN; | NT5E;C3orf33;FAS;FAAH |
| CCT8 | CCT8 |
| PGAP1;PGAP1 | BST1;PGAP1 |
| UTY;BST1;HSD17B6;S | UTY;BST1;HSD17B6;SH3TC2;RTTN;FBN2;FHOD3;P4HA1;CLK1;EPB41L1;ST13;FRMD7;F |
| P2RX6 | P2RX6 |
| OR11A1 | OR11A1 |
| PSMD1;PPP1R7;ATP6V | RPN2;PPP1R7;ATP6V1H;PSMD1 |
| SLC22A5 | SLC22A5 |
| CHI3L1;CHI3L2;CHIT | CHI3L1;CHI3L2;CHIT1;GLB1L2;GBA;OVGP1;GALC;GUSB;HEXB;GBE1;GLB1L;LCTL;AGL |

KIAA1967;LPP;KDM5E DBC1;LPP;KDM5D;C10orf116;KRTAP1-5;ARFIP1;GRIPAP1;DONSON;KIAA1217;COL6A1
MEST;CHI3L1;HHIP;CMEST;CHI3L1;HHIP;OVGP1;LCTL;SPATA20;RCL1;KCNT2;ECHDC3;MOCS1;HGF;SYN2;DI
FAM114A2 FAM114A2

HLA-A; HLA-A; DCLK1; CCRL1; BMPER; NRCAM; AP1S3; TROVE2; CDC20; LPP; ITGB4; PFKP; KDM5D; ANK2; ITPR1; KDM5D; PRKCH; PRKCZ; ZIC1; LDB3; CDKN1A; PDE4D; PTGS2; RNF38; ABLIM1; LOXL3; ARHGAP29; TRIM16; ZNF4K5; IGF2BP1; DDX54; HIPK3; WNK4; NUA2; DDR2; RBMS3; KIF27; TRIB2; MAGI3; ATAD2; SAR1B; ADSSL1; CLK2; HIPK3; WNK4; NUA2; DDR2; KIF27; KSR1; TRIB2; MAGI3; ATAD2; CLK2; PDGFRA; CDKL3; GRK5; NDUFA10; KIF20KN1A; ADAMTSL3; S100B; RNF38; ABLIM1; ARHGAP29; TRIM16; ZNF365; SLC39A8; ZNF395; ZNF238; STAMBPL1; GSTT1; CDKN1A; EGFR; AK5; MBOAT1; HIPK3; WNK4; NUA2; DDR2; BCR; AS3MT; PIP5K1A; CLK2; PDGFRA; CDKL17; ITGA3; RASGRF2; STAT1; S100B; S100A4; NOTCH3; NOTCH3; THBS1; FAT3; SLC8A1; LRP8; FBN2; CDH4; SYK; KAT7; SIX1; IRF2; DBP; MEIS1; HR; TARDBP; HOXB6; NFXL1; SP140; ETV1; MEIS2; ZNF83; ETS1; TRERF1; HOXC10; ZNF610; ZNF765; HDGF; ZNF248; TBPL1; TNFAIP3; HES1; CHD1L; ZBTB20; ZNF362; SHPRH; PPF1BP2; ZFX; ZMAT4; SPS6KA6; EYA4; ENTPD3; SIK1; TESK2; PRKAA2; TNK2; MARK1; STK3; MAP3K1; ITGA2; ADCY3; ADCY3; S100P; MAI1; APOBEC3G; MGLL; ATAD2; PDE7A; ARSJ; EYA2; PPP3CA; LPL; AMPD3; PTPRS; INPP5F; INPP5F; HDAC9; SGPP2; ROR1; PRDX2; LOXL3; AKR1C3; NQO1; HPD; DCT; ALDH3A2; P4HA1; CLK1; AKR1B1; LOXL4; GPD2; CMAHP; P4HTM; DBP; MAI1; PLAT; ERAP1; USP48; PAPLN; CORIN; USP25; TNFAIP3; PCSK2; ATG4B; ADAM9; ERAP2; CTSC; ECE1; USP34; ADAM10; SPS6KA6; RIPK4; PLK2; SIK1; STK17B; TESK2; PRKAA2; BRD2; CSNK1A1; TNIK; LIMK2; MARK1; STK3; STK3; MAP3K1; ROR1; AFAP1; NEB; CAPZB; DBP; BAIAP2L1; ANLN; EPB41; CALD1; PALLD; DMD; TNS1; GSN; ACTN1; CLMN; ENC1; MAI1; RBM45; NSUN6; RNASET2; EWSR1; SECISBP2; DDX60L; HNRNPF; CSTF2; TARDBP; DZIP3; AKAP1; DDX43; APOBEC3; PPP2R4; CADM3; ECE1; TOP2A; TRIM66; PLOD1; DPP4; ADD2; MAP3K11; LRRK2; BARD1; MYO6; EEA1; HEXB; IL6ST; RYR1; GPRC5C; CD44; RYR1; PDGFRA; PTPRS; P2RY6; ABCC9; TKT; ROS1; RIPK4; NETO2; TNFRSF9; FCGR2A; IL17R; HEC3; C12orf51; UBE2C; SHPRH; HECW2; DZIP3; TARSL2; ACS1; BIRC6; RNF111; NARF; UBR4; CPS1; NARS2; IL17C; CYB561; P4HA2; XDH; PLOD1; NDUFS7; RRM2; EGLN1; PIR; MADD; ELP3; DPYD; MIPEP; SDHC; RFESD; PPP3CB; KDM5B; NFYC; RORA; NR4A3; SF1; FOXM1; ETS2; ESR1; PPARG; NR2F1; HOXB5; NR4A2; LEF1; CREB3L2; MTA3; NFATC2; ZNF143; GFM1; HHAT; LRRK2; ACSM5; ARFIP2; SCG5; RND3; GNAL; ATL2; TUBG1; RRGD; GNAS; GNAS; RHOBTB2; RANBP17; CYP2R1; CYP26A1; PGD; CPS1; TXNRD1; ACAD10; TBXAS1; SMOX; ACADSB; ERO1L; CYP51A1; MADD; MADD; MADD; SLC12; ROBO2; TRIP13; ALDOA; PFKL; COL2A1; CD74; NHEJ1; COL1A1; GNAS; SCUBE1; DBNL; POP1; APLP1; EXOSC10; C12orf17; UBR4; MYH14; ADD2; MYO6; EEA1; KCN1; SPHK1; PPP3CB; MYH10; STRN; CAMK1; IQGAP3; RAD1; ATP2B4; IL17A; RSP01; ODZ3; FGF1; COL25A1; AAMP; LAMC2; COL13A1; TNXB; APLP1; PGF; ADAMTS1; FGFR1; DAO; PCOLCE2; APP; APLP3; SRGAP3; ARHGAP26; LRRK2; TBC1D15; MYO9A; RABGAP1L; RAP1GAP2; RIN3; TBC1D26; FAM13B; ARHGAP24; IL17C; HEXB; TLX1; GTF2A2; SCUBE1; POLA1; CENPF; BNIP3L; NPM1; POLA2; DGKD; SIM2; SMC2; PDGFA; HEXA; SMC3; LAMA4; LAMB2; COL11A1; CHAD; COL1A1; COL13A1; CD4; WNT9B; FBLN2; MGP; COL5A2; LAMA1; COMP; LAMB1; MADAM23; ADAM23; MIPEP; ADAMTS9; MMP11; ADAMTS16; ADAMTS6; ADAM33; ADAMTS1; TLL2; MMP7; MME; MME; TLL2; MO2; SOCS7; DOCK4; SH3BGR; SH3BGR; CNTNAP1; SHANK2; ARHGAP6; SIRPA; SYNGAP1; INPP5D; HGF; ELMO1; DNAAF1; DOCK4; RIC8B; ITS1; AKAP13; EIF2B4; TIAM1; ARHGEF1; NET1; DNMBP; RAPGEF2; ECT2; ARHGEF19; RAB3IP; IL17E; IGEA5; ELP3; TMEM68; AGPAT1; CRAT; NMT2; PNPLA3; TGM5; OXSM; NAT6; LCLAT1; NCOA3; ZDHHC3; SAT2; ZDHHC3; DHX58; DDX50; DDX27; CHD3; MOV10; HRH1; HRH1; DDX55; IFIH1; ERCC3; CHD5; CHD5; SRCAP; TTF2; EIF4A3; ZNF171; VISP3; PGF; AGT; PDGFA; GDF5; HGF; BDNF; KGFLP1; CD320; AR; DKK1; MDK; RABEP1; LIF; HBEGF; IGF1; IGF1; APLP1; POFUT2; GALNT1; C1GALT1; PARP3; B4GALT4; GALNT13; GALNT13; PARP14; DOK1; GYS1; GBE1; AGL; GALNT1A1; CENPF; PBRM1; MEN1; GLI1; POLE; CDCA5; CHD3; MSH6; MPP7; MKRN1; SUZ12; EZH1; PBX2; SVEP1; CHD5; CHD5; CHD5A8; SLC38A9; SLC13A5; SCN4B; POLB; SLC12A2; SLC9A9; SLC38A1; SLC4A5; SLC4A5; SLC22A5; SAT2; SLC20A1; SLC20A1; ZEB1; SP100; GTF2A2; SP4; NPM1; DYRK1B; MMS19; NCOA3; CIITA; ESR2; TRIM24; COPS5; NFKB2; SNW1; KAT21; CEP250; LIG4; NCL; PABPC1; CENPF; RAD1; CACNA1B; DLG4; MSH2; PRKCD; CEP120; LCK; HSPB7; ERCC3; DLC1; IL17D; BMPR1B; GALNT7; GALNT7; PC; PPM1K; B4GALT6; GALNT3; PPP2CB; GART; SLC11A2; RIMKLB; PPP1CB; GALNT3; AKAP13; PRKCD; CDC42BPB; RAPGEF2; DGKH; HMHA1; CDC42BPA; CHN1; BRAF; PRKCE; RGNEF; HEC2P3; FBXO21; WWP2; RNF144B; UBE2B; FBXO2; LNX1; FBXO10; MIB2; WWP1; NEDD4; FBXO25; UBE2Q2; EPM2A; TUBD1; RAD1; RERG; GFM2; GBP3; GBP3; DNM1; RAC1; GBP1; RABL2A; SAR1A; MTF2; ARL6; GTPBP2; RAB8B; RHEI1; WHSC1; SUV420H1; PRDM6; EHMT1; EHMT2; EZH1; EZH1; KIAA1456; METTL4; WBSR27; TYW3; EZH2; METTL7A; GATA3; GATA3; SLC13A5; SLC12A2; SLC38A1; SLC4A5; SLC22A5; NET1; NET1; SLC6A13; SAT2; SLC20A2; SLC16A9; SLC38A1; SLC38A1; LEPRE1; ASPH; PLOD3; KDM4C; KDM5C; KDM5A; OGFOD2; PTGS1; ADI1; ASPHD1; HLA-C; HLA-H; HLA-F; HLA-G; MR1; ULBP1; IL17F; TGIF1; CBFA2T2; E2F6; MXI1; HTT; SUFU; PEX14; ENO1; SKIL; ZNF85; PBXIP1; BATF3; IL17G; NC111; KIF21A; SMC3; KIF11; KIF18B; DNALI1; KIF17; KIF13A; KIFC1; DLC1; BBS4; TRERF1; ZFPM2; STK36; NBN; TBP; BCOR; TLE1; HMGB1; GTF2A2; HDAC2; CENPF; BCL3; TCF7L2; YWHAZ; HDAC1; HIF1A

ENOSF1;PPIG;C14orf149;AMACR;PPIL4;NKTR;PDIA5;PPIL6;PGM2;PGM2L1;EBP;GALM;MCEE
.C4A4;KIF20A;SLC2A3;ORC1;PTGDS;SLC03A1;SAT1;ABCA4;SLC22A18;ABCC2;SLC37A4;SLC2A13;AQP3;SI
PKNOX2;MYO5A;MACF1;NEXN;ARPC4
ANK1;MAPT;PPL;ADD3;DSP;HIP1;SPTBN1
CEP290;NFATC2;UBE2V1;BRCA2;HOXC9;GLI1;NFATC1;TP63;CAND2;RARB;KLF6;SEC14L2;SMAD1;ETV4;E
DF2;ODF2;LAMA2;COL12A1;LAMB2;LAMB2;KRT18;SPAG4;NPHP1;KRT7;COL9A1;KRT4;TUBD1;DLG4;CLDN1;I
JALCN;KCNH1;CLIC6;CLCN4;CACNA2D3;CACNA1B;CACNA1G;SCN4B;KCNQ3;KCNQ5;SCN1B;KCNIP1;KCNMA1;I
KLK4;PLAU;CFI;HGF;PRSS23;F7;LRP4;PC;ENO1;FAP;PCSK5;F12;PIM1
.C11A2;SOD3;STEAP3;MT1G;MT1F
AD9;ERO1LB;DMGDH;CHDH;GSR;STEAP3;ACADM
ACO1;NPL;CA9;ACO2;HMGCL;OGG1;ENO1;CBS;FAS;ENO3;PTS
DNMBP;HGF;ECT2;ARHGEF19;PLEKHG4;ARHGEF7;ABR;RGNEF
SP36;USP37;USP28;USP1;UCHL1;USP40;USP13;USP5
RCC3;REV1;OGG1;MSH3
EBF1;SP4;TCF7L2;CIITA;TCEA3;TBX1;TMF1;TCEA2;SMAD1;KLF5;TTF2;ILF2;TCF4;ATF2;TCF7;TIAL1
KQ5;KCNIP1;KCNMA1;SLC12A8;ATP1B1;KCNJ15;PDXK;SLC9A7;KCNS3;TTL;KCNJ5;KCNJ6
F3B;MTIF2;DENR;EIF1AX;EIF4E;NAT1
.4;SMARCA4;GLRX;SDCBP
GALNT13;CD72;VCAN;BSG;GALNT7;GALNT7;LGALS3;LPHN2;CLEC2D;PKD1L2;ATRN;GALNT3;GALNT9;GALNT
TMR4;MTMR3;DUSP15;DNAJC6;PTPN13;MTMR7;EPM2A
T;MAPT;MACF1;ATG4C;BCL2L11
ITIH5;SERPINB1;AGT;ITIH4;APLP2;APP;SERPINB8;CD109
P63;EED;DNAJB6;TTF2;JARID2;E2F7;BCLAF1;EPC1;ARID5B;RUNX1T1;BCL6;ATXN1;HOPX
P13;CASP3;CTSK;USP5
;CHN1;GRB10;SLA
;LCK;GHR;MAPK8IP2;TCF4;PRKAG2;CDKN2B
;CHD5;TTF2;DDX1;DHX36;CHD6;DDX10
P1CB;EPM2A
.NT9;GALNT1

P1;ATP8B3;ABCB6;MSH6;MSH2;ABCF1;ABCF3;ABCB9;ATP6V1H;ABCC4;ABCA3;ERCC3;ABCA13;TAP2
D1;COG3;AP4S1;XP05
YP46A1;NOX4;CYP2C8;CYP19A1;PXDN;PTGS1;FAAH
;DNM1;MYL6B;MYO1G;DNAI1;NMI;MYH7B;CGNL1

NR4A1

P1K3R4;TWF1;TTK;CLK3;MAP2K4;EPHB6;NEK1
P49;USP36;USP37;USP28;USP40;ESPL1

f2

XXTR;NPFFR1;CELSR2;FPR1;SMO;GPR56;GPR133;EMR2;GRM7;GABBR1;HRH1;LPHN2;FZD3;FZD3;GPR64;GPI

.T3LG;HGF;AR;LIF;CMTM3;BMP1;TNFSF9

.35D1

.A0317;RNF41;HECTD2;WWP1;NEDD4;UBE3C

7;NAT1

10;DNAJC24
EBP;HYAL3;HYAL3

2;MDP1
FXD1;KCNT2;TRPC1;ANO6;PKD1L2;CHRNE;P2RX6;TRPV1;TRPM7;SCNN1A
AP2;ARPC4
16
X27

1;ITGB3BP;GRK4;NPAS2;HIF3A;ARNTL2;CAPN3;RGS7;GNAL;PKP1;ADRBK2;GNAS;GNAS;GNAS;TSPAN8;PTK

1;ATP13A3;ATP10A

ABP3;PITPNM3;SCP2;APOL2;CADPS2;PTGS1;LIPC;LPAR4;TAP2;APOD

.0

1;AGTPBP1;ANPEP

AKT; TK2; TK2; BCKDK; MTOR; PSTK; PIP4K2B; PIP5KL1; PPIP5K2; LRGUK; PFKFB2; NEK10; PIP5K1C; TRPM7

IL6ST; ANGPTL1; CD72; ALCAM; CNTNAP1; TNC; LIFR; TNFR; GLG1; LAMA1; TRIM24; NCK1; AR; APOL2; EPHB2; C

30RT1

ATF2;CELSR1;BATF3

42BPA;RIN2;NRK

73;RNF213;RAD17;NVL;CDC6;RFC5;RAD51C;PIM1

9; IL1R1; CD40; CLEC2D; P2RX6; EBP; FAS; SARM1; CLDN4; LYVE1

7; ZNF480; ZNF862; PRDM6; RMI1; MKRN1; KDM4C; ZNF585B; PHF20L1; GPANK1; CCDC75; PHF1; ZNF720; METTL4

2

TRMD4A;SLC25A10;SIL1;ITGBL1;ORC1;ARMCX5;CRYZL1;TP53I3;PTGDS;SH3TC1;EPB41L5;AASS;SORD;PLI

;HEXA;MANBA;EBP;NAGA

1; TBL2; AUTS2; PART1; FMN2; BAIAP2L1; PPFIBP2; GTSE1; TM4SF1; SMA5; TARSL2; NDRG2; CA11; UACA; ALS2C1
P2A; PHKA2; PSTPIP1; POLR2D; KCNMA1; RIMKLB; FAM111A; SAMHD1

;HK2;HK2;COL7A1;NFASC;TNFRSF11B;SERPINA1;ITGA3;ZIC1;SLC4A7;LDB3;LMNA;RASGRF2;PTGS2;STAT395;HPD;ZNF238;CYB5D1;STAMBPL1;KSR1;DCT;ZNF529;APOBEC3G;ZNF514;ERAP1;UBR5;P4HA1;RIMS1;M;PDGFRA;RBM45;CDKL3;GRK5;KIF26B;RPS6KA1;EIF2AK3;MYO1B;BRSK2;LACE1;ABCC9;PDK1;CLK1;TKT;S6B;RPS6KA1;EIF2AK3;MYO1B;BRSK2;LACE1;ABCC9;PDK1;PDK1;CLK1;TKT;ROS1;RPS6KA6;LYN;RIPK4;PL;KSR1;DCT;ZNF529;APOBEC3G;ZNF514;ERAP1;UBR5;PPP3CA;RIMS1;MDM2;DNMT3A;RNF14;RNF185;RNF32L3;GRK5;RPS6KA1;EIF2AK3;NSUN6;BRSK2;DNMT3A;PDK1;PDK1;CLK1;TKT;TKT;ROS1;RPS6KA6;LYN;RIPKT9;CACNB3;COL10A1;ANO1;ANO2;CACNA1I;RYR1;ARSJ;PPP3CA;LPL;CLK1;TKT;CALU;EFCAB6;CCBE1;GPD10;FOSL1;RUNX2;RERE;PITX1;NFATC3;NFYC;RBPJ;ZNF33B;RORA;RNF4;EGR2;NR4A3;SF1;FOXM1;ZNF75D4;NUCB2;ZNF658B;HDAC4;RBM5;CHD7;PRKDC;ORC1;AKNA;CDKN2A;TET1;ZNF596;ZNF792;SRRM1;ZNF554;P3K6;POLK;MAP2K5;PFKL;ATP11A;STK36;PDE5A;ACSM5;ENTPD6;ADCY2;IDH3G;C1GALT1;WEE1;NEK3;PRFNASET2;EYA4;PON2;HDAC11;ENTPD3;MTMR1;HDAC6;CHD1L;SHPRH;DHX40;DDX60L;GGH;NAV2;DDX43;PDE1OB;GPX3;BCKDHB;P4HA2;XDH;CRYZL1;TP53I3;HMOX1;AASS;SORD;HTATIP2;PLOD1;PGD;PGD;PTGR2;PYRCAM15;USP24;MMP28;DPP4;CPS1;PSMB8;PAPPA;USP43;C1S;QPCT;MMP16;CAPN3;PRCP;ADAMTS17;MMP24;A1;ULK4;MAP4K1;MAP3K6;TAF1;MAPKAPK3;MAP2K5;MAP3K11;LRRK2;STK36;SGK1;MAPK8;MAP2K3;BUB1;WEPIB;ALDOA;FLNB;HOMER2;MYH14;MYH14;MYRIP;MYO10;UTRN;DNASE1;DAAM2;SYNPO;PARVB;MYO9A;MYOT;3F;PABPC4;RBM5;SKIV2L;LARP4;PUS7L;SRRM1;RPL9;SF1;PABPC1L;SYNJ2;MRPS28;BARD1;PPIE;MET;MET;DPYD;MAP3K13;SHMT1;PYCARD;SP100;THRB;GTF2A2;CENPF;BNIP3L;ZBTB16;CD4;NPM1;SOD1;DGKD;PRA;GRIA1;ITGB8;GPER;BDKRB2;DDR1;FGFR2;PLXNA2;MED24;ITGBL1;SEMA4B;ITGA2;STRA6;RAMP1;SEMA5DARS;TRIP12;ACSM5;SH3RF1;ZNRF1;HUWE1;HERC1;LIG4;QRSL1;ACSF2;AASDH;HECTD3;MCCC2;WWP2;RNF3A;JMJD1C;LEPRE1;CD01;TYW1B;RRM2B;ASPH;ACO1;MOCS1;PLOD3;KDM4C;FRRS1;HEPH;SFXN5;ACO2;ETFZEB1;TLX1;MAF;THRB;SIX4;CERS4;NR1D1;HOXC9;HOXC6;MPP2;HOXA3;MTA1;POLB;MEF2D;HMBOX1;FLI1;RAB24;GLUD1;DNAJC27;DOCK9;TUBD1;RAD1;SRP54;RERG;GFM2;MOCS1;NIN;GBP3;GBP3;DNM1;GPN1;RAESMO;DPYD;GBF1;SDHC;RFESD;ACADVL;TYW1B;NNT;CYP46A1;ASPH;NOX4;CYP2C8;ACAD9;ERO1LB;DMGDH;E;CEP72;ZAK;IRAK2;CLDN1;POLB;MST4;CMYA5;TP63;FGFR3;EED;SAV1;HDAC1;MOCS2;PARP1;CASP8;SMADMYO5B;MAP2;CAMK2G;RGS2;PDE1B;PCNT;MYO1G;CASK;MYO5A;CAMK2A;PHKA2;CAMK2B;TRPV1;RGS16;ADD3;MDK;HBEGF;SOD3;FAP;LIPC;THBS2;RSPO3;PF4V1ARHGAP6;ARHGEF1;SYNGAP1;HMHA1;RGS2;ARHGAP28;GDI1;RIN2;DAB2IP;GAPVD1;ABR;ARHGAP21;RGS12;TIMELESS;SMC4;CD1D;NR4A1;P2RX6;NOTCH4;TCF4;EXT2;SCP2;SDCBP;TGFB2;TAP2TN3;COL18A1;PRELP;DSP;FBN1;FBLN11;ADAM28;MBTPS2;LMLN;ADAMTS12;FAP;BMP1;ADAM12;MMP19AJC6;MAPT;DOCK1;PTPN12;SH3KBP1;PLSCR1;ADAM12PLEKHG4;ARHGEF7;RAPGEF4;KNDC1;RASGEF1B;GAPVD1;ABR;SERGEF;DOCK1;ALS2;RGNEF14;GLYATL2;HADHB;ZDHHC11;GPAM;QPCTL;HGSNAT;GGT2;NAT10;CHKB;F13A1RANB3;SMARCA4;CHD1;SMARCA2;DHX36;DHX38;CHD6TF2;BMP1;NOV;LEP;CXCL12NT7;GALNT7;B3GALTL;PARP1;HPRT1;PPAT;ALG9;XYLT2;B4GALT6;GALNT3;PARP8;PIGP;GALNT9;GALNT1;D5;SMARCA4;CHD1;CDC6;CHD62;SCN1B;SLC38A4;ATP1B1;PDXK;SLC9A7;SLC23A2;SLC23A2;SCNN1A;NAT1B;NR1H3;SRCAP;FHL2;SMARCA4;SMARCA2;ATF2;MAXATXN1;NMI9;GALNT1;SMG6;GBGT1;NUDT18;ABL2;PIM1;TGFB2;REX02

;UBE3C;WDSUB1B;MX1;MFN1;RAC2ART;PRDM7;METTL3;FTSJD2;NSUN7;ALDH1L1A4;HTT;SLC36A1;SLC6A9;SLC12A8;SLC23A2;SLC23A2;SLC1A3;SLC6A1;NAT1;NAT1

DAC3;FLNA;APBB2;APBB1;AHR;DIP2A;NIF3L1;ERCC3;STK4;TCF4;MDFI;SMARCA4;HDAC8;RNF19A;BRD7

LC12A7;LCN6;NUP214;ORC2;SLC25A22;SLC22A23;SLC13A5;TCOF1;CPNE3;SLC12A2;AP1G1;SLC25A27;NU

TV5;KDM5A;NR4A1;HNRNPD;ELF2;EPC1;FUBP3

ROCK2;THBS3;KRT86;MAP2;KLHL3;PRPH;MAPK8IP2;CLTCL1;KRT3;MAP4;CAV1;KRT8;CLDN4;ISCA2;THBS2
KCNJ15;KCNS3;KCNJ5;KCNJ6

1;AIM1

R1;PTGER3;CCBP2;CCBP2;SLC26A6;ADRA1A;ADRA1A;GPR135;CELSR1;PTGER2;LPAR4;EDNRA

2B;PER3;SHISA5;WNT9B;SIM2;PLCD4;AKAP13;STAT5B;NCOA3;PLCD1;RAPGEF2;FLNA;LSP1;STAT4;RGS2;

5;MFAP4

;DBF4;PHF2;EXOG;GPATCH1;GPATCH4;PRDM7;DHX36;DHX38;ZNF385B;DARS2;R3HCC1;MBNL3;TIPARP;ZBT

EKHH2;RIF1;NR4A3;PTGR2;EPB41L4B;TTC33;CBR4;ACBD6;MEI1;TRIP12;TTC37;ELM02;HSD11B1;LCN6;W

R12;LPIN1;MRPS28;ORA0V1;TMEM50B;C9orf114;NXPH4;NRM;OFD1;CUL4B;ICA1;FHL1;FSD1L;PHF3;DSCR

1; RCAN1; RNF38; B9D1; HLA-B; HHIP; CDON; ABLIM1; TBX20; IL1RL1; IGF2BP1; HYAL1; NDRG1; LSAMP; ZNF36;
DM2; DNMT3A; RNF14; RNF185; RNF32; LOXL4; RNF8; ZNF610; EWSR1; ZNF765; ZNF248; KAT7; MGAT4B; TNFAIP;
SLC27A3; ROS1; RPS6KA6; LYN; RIPK4; EWSR1; PLK2; ACIN1; MYO15A; SIK1; HDGF; STK17B; ABCC1; CHD1L; TUB
K2; MYO15A; SIK1; STK17B; ABCC1; CHD1L; UBE2C; SHPRH; DHX40; DDR1; DDX60L; PYGL; TESK2; GK; GK; GK; PRI
2; RNF8; ZNF610; ADAM22; EWSR1; PAPLN; ZNF765; ZNF248; KAT7; TNFAIP3; HDAC6; RPL37A; ZBTB20; RNF157;
4; PLK2; SIK1; KAT7; STK17B; DDR1; TESK2; GK; GK; GK; PRKAA2; FGFR2; TNK2; PIK3C2B; CSNK1A1; TNIK; LIM
2; ENTPD3; FBLN7; JAG1; P4HTM; SMOC1; DMD; EPS15; NUCB2; CD97; CADM3; GALNT2; S100A13; CACNA2D1; GSN
); ETS2; ESR1; ZFP36L1; NPAS2; ARNTL2; HMGB2; ZNF498; L3MBTL1; TSC22D1; PPARG; SOX6; RFX5; NR2F1; ZSC
; MITF; ZFPM2; ZNF615; SSBP2; MYBL1; CHD9; TAF1; HIVEP2; ZNF655; POLK; ZNF484; ZFY; SP110; MCM7; LBR; T
SAP1; MIPEP; MAP3K13; PKM; SPHK1; POLR3A; LIG4; BMPR1B; NME6; ITGA1; RAD1; ZAK; ACSL5; ENOSF1; ATP8B
C; DNMT3; HDAC4; APOBEC3F; ATP6V1B1; DUSP10; CHD7; PFKFB4; SKIV2L; MPPED2; CHD9; AMPD2; PLA1A; PTPRF
XD1; TXNRD1; SUMF1; ALKBH6; CBR4; RRM2; SMOX; L2HGDH; GAPDH; IDH3G; ERO1L; EGLN1; ALDH1A3; HSD11B1; I
ADAM23; UCHL5; USP45; MIPEP; ADAMTS9; MMP11; ADAMTS16; ADAMTS6; CASP1; LTA4H; CTSL1; ADAM33; RNPEP; I
E1; NEK3; PRKX; MAP3K13; MAP4K2; MELK; RIOK2; ATM; EXOSC10; ZAK; DYRK1B; SPEG; ROCK2; MST4; MAPK13; CI
; SORBS1; PHACTR2; SSH1; SHROOM3; SMTN; FLI1; TPM2; CCL28; TMOD2; MYO5B; AVIL; TWF1; TLN1; TNNT3; DAAM
ET; RBM33; SAFB2; RBM12B; KIN; XPO1; SFPQ; TAF15; ZNF638; DDX60; HNRNPH3; NCL; PABPC1; APOBEC3B; DHX5
RLR; TNC; AGT; MSH6; PDGFA; MSH2; PRDM6; HPRT1; TBX1; FLNA; CDH13; NRBP1; CALCOCO2; SBF2; NR4A1; STK4;
5A; TFRC; DRD4; LSR; RRBP1; CD46; NTRK1; PLXND1; MCHR1; PTPRF; SEMA6C; SEMA5B; PILRB; IL15RA; PLXNB2;
144B; ACSL5; PCCA; UBE2B; RNF41; PET112; HECTD2; LNX1; EARS2; TRIM5; LRSAM1; UBA7; SMAD1; NADSYN1; C
FDH; PPAT; KDM5C; KDM5A; APP; SLC25A37; ISCU; OGFOD2; PPP2CB; SLC11A2; CBS; STEAP3; PPP1CB; ISCA2; IS
DDIT3; TGIF1; ROR1; NR1D2; RARB; PBX1; NR3C1; FOXJ2; TBX1; ROR2; ESR2; ETV4; PBX2; ETV5; HOXB8; DLX6;
39B; RAP2C; RAC1; OLA1; RHOBTB1; GBP1; RABL2A; SAR1A; MTIF2; ARL6; ARL6; RAB15; GTPBP2; RAB36; RAB8B; I
ETFDH; CYP19A1; AR; COX7A2L; GPX2; GLRX; ADH5; MAOA; GSR; STEAP3; ACADM; CYB5R3; ALDH1A2
1); APLP2; ITGB3; PRNP; NONO; CDK2; CDC42BPA; RGMB; GCC2; FHL2; APP; HACL1; APIP; SUFU; E2F7; PSMA4; MAI
); NMI; SPTBN1

; RABEP1; TBC1D1; DOCK1; CHN1; DLC1; RGS16; ARHGAP9; TBC1D12; TBC1D19; RANBP1; SIPA1L3; TBC1D16

; PARP16; TIPARP; A4GALT

JP98; SLC4A2; SLC4A5; SLC4A5; SLC22A5; SEC14L2; ABCB9; SYT3; SLC2A1; ABCA3; SLC4A9; FABP3; SLC25A12

2; ISCA1; CLDN12; NRP2

ECT2;MIB2;TRIM38;ATP2C1;PLCG2;TRAF2;SUFU;DKK1;CLTCL1;SNX25;RGS16;PRKCE;ARNTL;RIPK2;CXCI

B7C;FTSJD2;ENPP1;REX02

WDFY3; INSC; DPYD; C7orf63; IFRD1; SLC25A42; ORC2; RANBP17; HEATR7B1; NBEAL2; BHLHB9; DHRS12; ARMC2

3;GNAS;MDGA1;FAM53B;MRPL44;NAAA;ERLIN2;TNXB;SPSB2;LEPRE1;FANCD2;GPM6B;KIAA1967;POLA2;M

5; YY1AP1; PDXDC1; NOTCH3; NOTCH3; WNK4; ANKRD44; ZNF238; SMG5; SUN1; SLC02A1; FAT3; ID2; PLEKHA7; LR3; HDAC6; RPL37A; ZBTB20; RNF157; ZNF362; SHPRH; RNF180; HR; ZFX; LIMK2; DZIP3; MLL5; ACAP2; ZMIZ1; ZMG2; TUBA4A; SHPRH; DHX40; DDR1; DDX60L; HNRNPF; CSTF2; PYGL; TESK2; GK; GK; GK; PRKAA2; FGFR2; RASL11E; KAA2; FGFR2; TNK2; CSNK1A1; TNIK; PPP2R4; LIMK2; HSPA12A; IQCA1; KIF20A; NAV2; MARK1; DDX43; ABCA5; S; ZNF362; SHPRH; RNF180; HR; ZFX; LIMK2; DZIP3; MLL5; ACAP2; DMD; ZMIZ1; ZMAT4; ADAM9; CPXM2; ZNF658B; EK2; MLL5; MARK1; AGPAT5; STK3; STK3; CHST6; GGT7; MAP3K1; RPN2; PRKDC; PFKFB4; ULK4; WBSR22; MAP4K1; ; ACTN1; GALNT12; SCIN; DSG3; ITGA2; ASIC1; LDLR; MMP28; S100P; ITPR2; MYL5; CACNA1A; SUMF1; MYL3; CACAN29; HOXB5; NR4A2; DMTF1; CREB3L2; PCM1; MTA3; NFATC2; ZEB1; TLX1; REL; MAF; THRB; SIX4; ZBTB25; CERSOPBP1; ZNF501; PRDM8; HIF3A; ZNF354C; ZNF568; EBF3; TBP; ZNF273; ZNF595; SAFB2; ZNF718; PRR12; CCNL13; POLB; MST4; ATP2B4; ITGA10; MSH6; PTEN; MSH2; CDC42BPG; TSSK4; TSSK4; MARK2; ATP10B; ATP11C; PSTK; ; PPAPDC1A; ACAD10; SYNJ2; ATP11A; CDC14A; DHX57; ATXN3; PDE5A; ARSK; ENTPD6; PNPLA2; ATP6VOE2; PTPN MADD; SMO; DPYD; RFESD; KDM3A; OGDH; GLUD1; ALDH3B1; JMJD1C; DHRS12; HSD17B7; LEPRE1; CDO1; TYW1B; RRPCSK7; MPND; KLK4; ADAMTS1; DNPEP; TLL2; MMP7; UFSP2; MME; MME; CTSH; CASP8; TLL1; USP49; MAP2; PLAU; CPNE3; PIK3R4; MKNK1; MAP4K4; CDC42BPG; TSSK4; TSSK4; TTK; MARK2; CLK3; BCKDK; AKT2; MTOR; WNK1; MARK31; LSP1; KLHL3; HIP1R; PLS3; TNS4; MIB2; TLN2; MYO1G; WHAMM; KLHL2; NCALD; ABLIM3; LIMCH1; DBN1; TRPM78; HNRPLL; RBM6; EXOSC10; OAS1; NPM1; THOC1; DDX50; RBM43; DDX17; CPEB3; LRPPRC; ACO1; FUS; EIF2A; PPIGHR; OXCT1; CDA; CARS; MSH3; HPS4; EXT2; MYCBP2; RUNX1T1; ADH5; ALS2; FAP; PDXK; ATF2; SLC9A7; TARS; CASTAB1; OXTR; LBR; NPFFR1; NPTXR; SEMA4F; PTPRD; EPHA2; MET; LRP5; IL21R; PTPRQ; PTPRQ; LMBR1; GRIA3; IARS2; MIB2; PC; WWP1; NEDD4; CARS; UBA6; MYCBP2; UCHL1; SH3RF2; GART; UBE2Q2; UBE2F; RNF19A; GLUL; DARCA1; SLC40A1
TGIF2; NR1H3; NR4A1; TTF2; PKNOX2; AR; FOXP1; POU6F1; CREB3L3; ELF2; CERS5; BCL6; ATF2; MAFF; HOPX; BARRHEB; RAP1B; MX1; MFN1; RAC2

PT; PDS5B; SMARCA4; ACP1; DTNBP1; FAS; IRAK3; ATXN1; CLDN4; CLDN12

;KLHL2;HTT;SLC4A3;SLC26A6;LST1;SLC11A2;AP4S1;SLC25A36;SLC23A2;SLC23A2;DOC2B;TAP2;TAP2;A

L12

;HSD17B7;RIC8B;RNPEP;VCAN;TTC4;NNT;TTC12;ASPH;HSF2BP;C2orf63;SLC25A27;WDFY4;ADH1C;ADH1C

OV10;MOCS2;TM6SF1;TMEM106A;NUB1;PSG1;RARRES2;MKRN1;WNK1;KDM4C;NDRG3;COL5A2;ANK3;L3MBTL3

RP8;KSR1;CDH4;SYT9;SDHA;KHDRBS3;CACNB3;ORM1;ACSS2;CROCC;TNFRSF19;APOBEC3G;TRIB2;KLHL13;MAT4;ADAM9;CYB561;ZNF658B;ERAP2;CYP39A1;APOBEC3F;NFXL1;P4HA2;ECE1;SP140;ZNF83;SMAP1;STAB3;TNK2;TARDBP;CSNK1A1;TNIK;LIMK2;HSPA12A;IQCA1;KIF20A;NAV2;MARK1;GNAZ;DDX43;DNM3;ABCA5;ISTK3;STK3;TOP2A;TARSL2;MAP3K1;CHD7;PRKDC;RFC4;ORC1;RUNX2;PFKFB4;ULK4;SKIV2L;MAP4K1;NTRKERAP2;APOBEC3F;NFXL1;ECE1;SP140;SLC39A10;ZNF83;SMAP1;STAC;LIMD1;RBM5;TRERF1;ZCWPW2;MAP3I;TYMS;NTRK1;CAMK2D;MGAT1;PIGN;PAPD4;POLD3;PDK2;MAP3K6;GRK4;SAT1;TAF1;ACAT1;ACAT1;MAPKAP1;DNA1D;LPCAT1;C1S;NPTXR;GALNTL1;TPCN1;ARSK;ENTPD6;MMP16;CAPN3;ZZEF1;AN08;UTRN;DNASE1;MMP14;UBN1;NR1D1;HOXC9;SREBF1;HDAC2;CSRNP3;BCL3;HOXC6;MPP2;HOXA3;C11orf9;MTA1;GAS7;ZNF133;L1;PRDM15;AFF3;ELP3;KIN;SFPQ;HUWE1;SPHK1;SP140L;ZNF566;ZNF343;DMAP1;NHEJ1;TAF15;CENPA;POLR;HPRT1;MAP3K8;CDC42BPA;MAST4;ATP10D;PPAT;SRPK1;ITGAE;STK4;ARL6;ATP2C1;FAH;ADPRH;PPM1K;RII22;PTPRD;DHX15;GPI;DNASE1;PTPRQ;PTPRQ;CDKN3;PDE6B;DDX60;PPP3CB;PMS2;PTPN3;SSH3;MRPL44;IRM2B;HMGCR;SOD1;NNT;ASPH;NOX4;PLOD3;ADH1C;ADH1C;SQRDL;KDM4C;CPOX;H6PD;ERO1LB;DMGDH;FRRS1;CFI;CPZ;ADAM28;PRSS23;PRSS16;F7;LRP4;COPS5;USP36;CPXM1;USP37;USP28;USP1;PC;QPCTL;MBTPS23;PLK3;MAP3K8;CDC42BPA;MAST4;SRPK1;AKT3;STK4;MAP2K4;WNK3;NRK;CASK;NEK10;NEK1;BRAF;NUAK17;ADD3;TMOD1;TAGLN;NMI;SCNN1A;MYPN;HIP1;SPTBN1;MYH7B;STK38L;FMNL1;PXX;SPIRE2;TRIOBP1L4;EIF4E3;RAVER2;HRH1;HRH1;SNRNP35;NOL8;SCAF4;PCBP2;ANKRD17;DDX55;EIF1AY;IFIH1;CPSF4;NARD8;FAAH;ENPP1;PTS1L6ST;FPR1;IL17RD;PLXNA4;IL17RE;SEMA3A;BMPR1B;GFRA2;SEMA3B;SEMA6A;ITGA1;GUCY1B3;UNC13B;IRS2;TARS;RFWD2;CTPS2;UBE3C;MARS;TTL;RNF40;ZNRF2;PPCS;ASNS

ATF3;PIM1;PAX6

APOD

);H6PD;CRYL1;TTC9;TMC06;DNAJC13;DAO;CLEC2D;THADA;TTC17;TTC39A;CTNBL1;ARMC8;LTBP2;PKD1L:

3;CD320;FILIP1L;OXA1L;OXR1;KDM5C;CARKD;WSB1;C2CD2L;TMEM106B;POMZP3;KNDC1;LRRTM1;NTNG2;I

SPON1;SGOL1;MAGI3;CNTN3;GPCR5C;STAP2;CACNA1I;LRRFIP1;NTN4;NTN4;FHOD3;SMG7;ERAP1;SLC14A2
C;LIMD1;RBM5;TRERF1;XDH;ZCWPW2;NT5E;TRIM59;RERE;RNF145;HMOX1;ADAM15;TET1;SORD;RNF220;TF
PABPC4;STK3;STK3;TOP2A;TARSL2;RBM5;MAP3K1;NT5E;CHD7;RAB3A;RFC4;ORC1;PFKFB4;ULK4;SKIV2L;
1;CAMK2D;TRIP13;DYNC2H1;PDK2;TPX2;MAP3K6;CUL9;GRK4;CPS1;CHD9;ABCA4;TAF1;MYH14;MYH14;HSF
K1;NT5E;TRIM59;CRYZL1;RERE;TP53I3;RNF145;ADAM15;TET1;SORD;RNF220;TRIM66;MMP28;ZMYM1;ZBT
K3;POLK;POLK;OAT;MAP2K5;PFKL;ADCK3;LPCAT1;ZDHHC15;HHAT;MAP3K11;HS6ST1;LRRK2;STK36;DPH5;
24;EFHA2;CELSR2;PPP2R3A;DGKG;GALNT13;GALNT13;FAT1;MIPEP;EDIL3;KIAA0494;NPNT;MMP11;SUSD1
TCF7L2;IRF5;MEF2D;BHLHE41;HMBOX1;FLI1;NFATC1;SIM2;TP63;TSC22D3;STAT5B;HDAC1;DDIT3;TGIF1
LR3A;ZNF638;LIG4;SP100;ZNF621;HEMK1;NCL;ZNF776;ZNF692;PMS2;POLA1;PCNA;EBF1;ZNF705G;ORC4
EV1;DCLRE1C;ATP13A3;FDFT1;HACL1;PGM2;B4GALT6;FAHD2A;POLR2B;NEK10;NEK1;KCNMA1;ENO1;PDP1;
NAAA;HDAC2;POP1;SSH1;APOBEC3B;INPP5B;DHX58;RAD1;RAD1;PNPLA3;EXOSC10;PLA2G2A;DDX50;ATP8E
1;HEPH;CRYL1;LDHA;ETFDH;KDM5C;DAO;DAO;KDM5A;PDIA5;PIPOX;PXDND;FDFT1;AR;SCP2;OGFOD2;GPX2;
;AGTPBP1;PSMA4;LMLN;UCHL1;ATG4C;USP40;ADAMTS12;FAP;PCSK5;F12;BMP1;USP13;ADAM12;CASP3;ES
;TRPM7;SRPK2;IRAK3;AIM1;RIPK2;STK32C;STK38L;PIM1

ONO;EIF5A;EIF4H;EIF3B;CSTF3;FXR1;G3BP2;OAS3;AQR;EIF4A3;DDX1;DDX11;NOVA1;NUFIP1;HNRNPD;F

KDEL3;MED12;CNTNAP1;PTPRU;EPHA4;ITGA10;PRLR;TSHR;PTCH1;DERL1;ANTXR1;FGFR3;GRM7;ROR1;GA

2;SUMF2;SLC25A37;AGTPBP1;ATRN;AHCYL2;ARFGEF1;PACRGL;ADH5;STAG3;SLC25A36;SERAC1;ZFC3H1;L

FI27;TSGA10;SLC35F2;HERPUD1;C14orf2;LST1;TMEM126B;FAM63B;DLC1;PMEPA1;PIGP;SH3KBP1;C18orf

2;CLK2;UBR5;FANCI;BOC;CTNND2;SH3BP2;GRK5;FBXL5;UBE2D3;IFT172;SOX9;PTPRS;CCDC136;RIMS1;RIM66;CYP2R1;ZMYM1;ZBTB46;ZNF596;UNKL;ZNF792;RNF111;ZNF33B;RORA;MT4;ZNF554;CYP26A1;ZFYV;MAP4K1;NTRK1;CAMK2D;TRIP13;GNAO1;DYNC2H1;GNL2;MAP3K6;CUL9;GRK4;CPS1;CHD9;ABCA4;TAF1;MYPA14;KIF23;MAPKAPK3;NARS2;ACTA2;ABCC2;PSMB8;MAP2K5;PFKL;ADCK3;MCM7;DARS;ATP11A;MAP3K11;ITGB4;ZNF596;UNKL;ZNF792;RNF111;ZNF33B;RORA;MT4;ZNF554;ZFYVE16;RNF4;EGR2;NARF;ZFPM2;NR4A1;SGK1;QPCT;MAPK8;EPHA2;DGKI;MET;MET;FN3K;HMGCS1;MAP2K3;BUB1;MGEA5;GSTM3;TK1;WEE1;NEK3;DGL;CACNA2D3;PPP3CB;PCDH9;EFCAB2;SCUBE1;ITSN2;SGCA;ITGA1;PCDHB9;CACNA1B;ITSN1;PLA2G2A;REPL;ROR1;NR1D2;CBFA2T2;RARB;NFIB;PBX1;NR3C1;E2F6;FOXJ2;TBX1;HMG20A;ROR2;STAT4;ESR2;ZNF4964;SP4;PBRM1;HJURP;ZBTB16;ZBED5;HMGXB4;RBM6;ATM;THOC1;ZNF419;MEN1;GLI1;POLE;ZNF557;POLA2;FDXACB1;NUAK1;PDXK;SRPK2;NT5C2;IRAK3;ATP10A;AIM1;MDP1;TTL;NUDT18;STK32C;ENTPD4;ABL2;TRIP33;PDE4A;PTPRU;ATP2B4;SERHL2;PLCD4;DDX27;CHD3;DDX17;NOTUM;PTPRA;MOV10;PTEN;HDAC1;LYPLAL;ALDH7A1;ADH5;MAOA;SOD3;GSR;STEAP3;ALDH1A1;FAS;PTGS1;ASPHD1;FAAH;SARDH;CYB5R3;ALDH1A2;AIISPL1;KY;ANPEP;CTSK;PIM1;MMP19;USP5

RBM39;ZFR;ADAT1;FUBP3;RPP25;METTL3;TRNAU1AP;ATXN1;EIF1AX;RGNEF;TIAL1;DDX10;MRPS5;MTHFS

ABBR1;HRH1;LIFR;TNPO3;LRP10;LRP10;PAQR5;FGFR1;ROR2;SLC20A2;ITGB3;CD1D;LRP4;GPR1;ATP6AP2

.TBP1;STEAP3;TTC13;FAM82A1;F12;HEATR3;UCP2;TTC31;SLC25A14;FRMD6;TMTC2;CDC16;SLC25A16;FRI

orf1;DENR;NIT2;CSRP2;AIM1;TP53TG5;KIAA0247;MFAP4;BRD1;C11orf58;PSG2;FMNL1;NAT10;GOS2

PS6KA1;MAL2;RASSF4;RASSF4;DNMT3A;RNF14;PDK1;AKR1B1;TKT;RNF185;MALL;RNF32;LRCH2;BTRC;LYN
E16;PLOD1;RNF4;EGR2;NARF;ZFPM2;NR4A3;ZNF615;CUL9;ZFP106;NDUFS7;UBR4;CPS1;CPS1;SF1;SF1;Z
H14;MYH14;HSPA14;KIF23;MAPKAPK3;NARS2;ACTA2;PABPC1L;GFM1;ABCC2;PSMB8;MAP2K5;PFKL;PRKAR2
LRRK2;STK36;DHX57;ABCA1;MLKL;ACSM5;SGK1;MYO6;CENPE;MAPK8;EPHA2;ATP5A1;DHX15;MET;MYO10;C
3;ZNF615;CUL9;ZFP106;UBR4;CPS1;PTGR2;SF1;SF1;ZNF75D;CA5B;HIVEP2;ZNF655;POLK;ADAM32;AGAF
GKG;ELP3;ADRBK2;PRKX;MAP3K13;PKM;SPHK1;SHMT1;AGPAT1;BCAM;POLR3A;FASTK;HEMK1;CRAT;BMPR1E
S2;CRTAC1;CACNA1G;VCAN;SCUBE2;TGM5;ATP2B4;ITGA10;ASPH;TNC;PLCD4;EFEMP1;THBS3;FBLN2;GALN
;SMAD1;KLF5;IKZF3;ETV4;PBX2;ETV5;ZKSCAN3;TP73;ZBTB17;SNAPC2;AHR;HOXB8;DLX6;NFKB2;TGIF2;
;PHTF2;POLB;BBX;NUSAP1;ZNF641;CHD3;WHSC1;NCOR2;LRPPRC;ZNF425;FUS;ZNF782;PHF21A;HDAC3;Z
NT1;STK38L;TGFB2;ENO3
1;HDAC3;PTPRE;HDHD3;ARSB;HRH1;HRH1;PLCD1;ATP10B;DCP1B;INPP5D;DNM1;PNKD;ATP11C;INPP5K;MF
LDH1L1

;NRXN3;ITGAE;GHR;FLT4;OSMR;PLXNB3;SEMA4A;CCBP2;CCBP2;AR;ATRN;ITGA9;EPHB6;EPHB2;SEMA3C;A

MD1;TMTC1;LYVE1

ND; STAG2; COL6A1; EFN1; RNF8; ADAM22; HOXC8; PLK2; FCGR2A; SORBS2; PREX2; TRRAP; FZD4; GRIA1; FBLN7; ZNF75D; CA5B; ACAT1; HIVEP2; ZNF655; ADD2; AGAP11; APLF; ESR1; MYRIP; PAPP; ZNF484; TRIM14; ZFY; SP12B; ADCK3; MCM7; DARS; ATP11A; HHAT; MAP3K11; LRRK2; STK36; DHX57; PDE5A; ABCA1; ACSM5; SGK1; MYO6; CE1BWD6; IDH3G; MAP2K3; KIF3A; BUB1; NLRC5; MDN1; TK1; CCNL1; WEE1; NEK3; ADRBK2; PRKX; MPP1; MAP3K13; M2P11; APLF; ESR1; MYRIP; PAPP; ZNF484; TRIM14; ZFY; SP110; ZFP36L1; ZDHHC15; LPXN; ZNF608; ZNF501; DH3; PTK2B; THUMP2; MAP4K2; POLA1; CMAS; MELK; CAMK1; NMT2; RIOK2; C7orf10; NME6; ATM; PNPLA3; PRKD3; OMT7; GALNT7; TLL2; STAT5B; MMP7; SVIL; EMR2; AVIL; MME; HPCAL1; ARSB; TRPC1; TLL1; MGP; S100A2; PLCD1; PHF1; KDM5A; NR1H3; NR4A1; TTF2; ZKSCAN2; GLIS3; ZSCAN23; ZBTB38; NRK; PKNOX2; ZSCAN18; AR; FOXP1; PNF512; TNRC18; PARP1; SP7; ZFP92; DNAJB6; KLF6; RAD51B; HMG2; ZNF451; CIITA; TCEA3; ZNF684; PCBP2; M2R1; ACPL2; H6PD; PNPLA7; DDX55; APOBEC3C; APOBEC3C; IFIH1; DROSHA; INPP4B; PIGL; MTMR4; MTMR3; OLA1; ;

ADRA1A; ADRA1A; FLJ35024; HBEGF; ANTXR2; ITGA7; PTK7; NCR1; GPR135; UNC5B; PDGFRB; NOV; IL20RB; ITGB

MAGI2; TNFRSF14; SOCS5; SIK1; TBPL1; KAT7; JAG1; ITGB8; TNFAIP3; RPL37A; STK17B; RECK; PCSK2; CD81; N
10; ZFP36L1; ZDHHC15; TBXAS1; LPXN; ZNF608; ZNF501; DHX57; PRDM8; ZNF185; ZNF354C; BARD1; QPCT; ZNF5
NPE; MAPK8; PPIE; EPHA2; ATP5A1; DHX15; MET; MET; MYO10; CBWD6; IDH3G; MAP2K3; KIF3A; SAFB2; BUB1; NLF
YO9A; SPHK1; FASTK; LIG4; DDX60; NUBPL; PMS2; MYH10; NLRP12; BMPR1B; PTK2B; GLUD1; MAP4K2; MELK; CAMK
X57; PRDM8; PDE5A; ZNF185; ZNF354C; BARD1; QPCT; MMP16; ZNF568; ZNF498; EBF3; L3MBTL1; ARAP2; EEA1; S
AS1; ZAK; PIGG; DYRK1B; SMS; SPEG; POLE; ROCK2; POLB; POLB; DGKD; EPHA4; ZDHHC2; MST4; TGM5; PDK3; SULT
SCUBE3; RAPGEF2; ANO6; RCVRN; LRP10; STAT4; EPDR1; FBLN5; CDH13; SYT3; PPP2R3B; F7; C17orf57; PLS3; L
OU6F1; E2F7; CREB3L3; PHF2; ELF2; TCF4; TCF4; CERS5; SMARCA4; RUNX1T1; ZNF70; ENO1; GABPB1; BCL6; HIC
CM2; MCM2; HGF; TMF1; IFIH1; TCEA2; MXI1; APLP2; EZH1; EZH1; BAZ2B; GIN1; NONO; ZNF571; ZNF678; TRIM24

PDE1B; ATP10D; CECR5; ERCC3; CES2; CES2; CHD5; CHD5; SRCAP; PADI4; PTPN4; DFFB; TTF2; PDE3A; ATP2C1; F

5; ANTXR1; TIE1; NRP2; OR11A1; ANPEP; PTGER2; TGFBR2; LPAR4; EDNRA; CRLF1; SORT1

NEB; INTS6; ZBTB20; ATG4B; IFT88; RNF157; CAPZB; SCN10A; PODN; TUBA4A; SHPRH; SIX1; DDR1; RNF180; HEC568; ZNF498; EBF3; L3MBTL1; ARAP2; EEA1; SH3RF1; ADAMTS17; DGKI; PYG01; NPLOC4; ZNF273; ZNRF1; PPARG; RC5; MDN1; RND3; TK1; CCNL1; WEE1; GNAL; RBM12B; NEK3; ADRBK2; PRKX; MPP1; SFPQ; ATL2; MAP3K13; MYO9A; KIF11; RIOK2; ORC4; ACSF2; AASDH; NME6; DHX58; HSPA4L; CACNA1B; PRKD3; OAS1; ZAK; DYRK1B; SPEG; IRAK2; DDIT3; SH3RF1; ADAMTS17; DGKI; PYG01; NPLOC4; ZNF273; ZNRF1; ZZEF1; PPARG; DTX3L; RNF122; EGLN1; ZNF595; UTIF1C3; OXSM; SULT1A1; NAT6; MAPK13; CDK1; AGT; NAGK; HNMT; MOK; LCLAT1; TRMT2B; PIK3R4; WHSC1; MKNK1; FHL2; LRP4; SVEP1; MYL6B; DAO; PC; COMP; PADI4; NRXN3; ITGAE; ATP2C1; FAH; LTBP2; LTBP2; PLCG2; SLC25A12; EGFR; ZNF37A; PHTF1; ATF2; ZNF397; ZNF85; MAFF; ARNTL; HOPX; BATF3; DMRTA1; ZSCAN2; PAX6; MAX1; ZMYM3; GTF3C1; NKRF; TAF1A; ZNF224; KDM5C; CHD5; CHD5; ZNF618; SRCAP; ZNF84; DFFB; TTF2; MCM5; ZFP64; FAH; ADPRH; DUSP15; EIF4A3; PPM1K; PLCG2; ADARB1; DCLRE1C; DDX1; DDX11; DNAJC6; ATP13A3; INPP4A; ZRA1

W2;SSX2IP;LRRFIP2;HNRNPF;CAB39L;CSTF2;STMN2;DBP;DBP;GK;PRKAA2;FGFR2;INADL;PPP4R4;TNK2;F
.;DTX3L;RNF122;EGLN1;ZNF595;PIR;ADAM23;ZNF718;CYP51A1;RP9;MADD;BCKDHA;RNF212;NR2F1;CCNL1
TUBG1;SPHK1;RRAGD;GNAS;GNAS;RHOBTB2;LIG4;DDX60;HNRNPH3;NUBPL;NCL;RAB24;MYH10;NLRP12;BMF
X50;ATP8B3;ABCB6;PCCA;ROCK2;POLB;NOD2;EPA4;MST4;ATP2B4;PDK3;NME5;PAPSS2;MAPK13;CDK1;NA
RN;MMP24;ADAM23;ADAM23;ZNF718;RP9;RNF212;NR2F1;CCNL1;WDFY3;ZSCAN29;PRDM15;DGKG;PDLIM7;Z
GFR3;MAP4K4;TK2;TK2;NCOA3;SUV420H1;ZDHHC3;ROR1;PRKCD;PRDM6;CDC42BPG;CDK8;TSSK4;TSSK4;T1
FL7;PXDN;SUMF2;PITPNM3;PCDH7;SGCE;B4GALT6;NCALD;NOTCH4;MCFD2;SLC26A6;KCNIP1;FAHD2A;ITGA
4;ZFP64;PRDM10;ILF2;ZNF433;C14orf43;ZNF700;HP1BP3;EZH2;DDX11;ZNF672;ZRANB3;NUFIP1;HNRNF
NB3;PTPN13;CDA;AHCYL2;EXOG;MTMR7;FAHD2A;SMARCA4;SCP2;PFKFB2;ACP1;HDAC8;CHD1;PDP1;PPP2CE

HR; ISLR; TARDBP; TLR5; MUC4; PIK3C2B; PALLD; CSNK1A1; TNIK; LIMK2; DZIP3; MLL5; DMD; EPS15; ZMIZ1; KN
1; WDFY3; ZSCAN29; PRDM15; B4GALT4; ELP3; DPYD; PDLIM7; ZFAND1; FHL1; NR4A2; SQSTM1; KIN; PHF3; RNF6;
PR1B; PTK2B; PABPC1; GLUD1; MAP4K2; DNAJC27; POLA1; MELK; CAMK1; RIOK2; ORC4; ACSF2; AASDH; TUBD1; NM
AGK; DDX27; MOK; CHD3; DDX17; SMC2; KIF21A; MSH6; PIK3R4; MYO5B; MOV10; MKNK1; FGFR3; KCNT2; MAP4K4; T
ZFAND1; FHL1; NR4A2; SQSTM1; KIN; PHF3; RNF6; USP45; MIPEP; ANKZF1; MYO9A; FGD6; SP140L; ADAMTS9; ANK
TK; MARK2; CLK3; AKT2; EHMT1; PSTK; CAMK2G; GSTA4; WNK1; DGKH; MARK3; PKN2; FGFR1; SAT2; STK39; ROR2; P
A9; GALNT3; AMY2A; CADPS2; MACF1; MACF1; EFHD1; KCNMA1; PDP1; FLJ35024; TRPV1; CABYR; CLSTN3; ITGA7;

PD; JARID2; MBD5; BCLAF1; PDS5B; POLR2B; SCP2; SERPINA3; ARID5B; ZNF431; TAL1; HBP1; CHD1; SMARCA2; Z
3; SMARCA2; ELAC1; SERHL; DHX36; ADAT1; PPP1CB; DHX38; FAP; PTPN12; RPP25; HIBCH; SMG6; EPM2A; NT5C2;

TC1;BCKDHB;LYST;DES;TNS1;RGS3;SERPINE1;CD97;CADM3;TNFAIP8;GULP1;C10orf11;AKAP1;HEATR2;I
USP45;ANKZF1;MYO9A;FGD6;SDHC;SP140L;ADAMTS9;ANKMY1;PCM1;ZNF566;ZNF343;HERC2P3;MTA3;TAF1
E6;DHX58;HNRPLL;HSPA4L;RAD1;CACNA1B;NCBP2;PRKD3;ZAK;DYRK1B;SPEG;DDX50;POLE;ATP8B3;ABCB6
K2;TK2;ROR1;MSH2;PRKCD;CDC42BPG;CDK8;TSSK4;TSSK4;TTK;ABCF1;SLC22A5;MARK2;CLK3;HRH1;HRH1
MY1;PCM1;ZNF566;ZNF343;MMP11;MTA3;TAF15;RASSF5;ZEB1;POLR3A;ZNF638;ZNF621;ADAMTS16;THRB;
LK3;SEPSECS;ZDHHC14;PANK1;EHMT2;LCK;MAP3K8;EZH1;EZH1;GLYATL2;CDK2;CDC42BPA;MAST4;HCK;GS
LTBP1;TRPM7;PLSCR1;GALNT9;GALNT1;CDH2;DSP;BMP1;FBN1;PROS1;EML1;FBLN1;DOC2B;THBS2;CELSR1
NF254;RFX2;ZFR;BTBD11;H2AFZ;ZNF471;SLC12A8;FUBP3;BANF1;PEG10;ZNF577;SMG6;CHD6;ZNF643;FI
CTDP1;CHD6;LIPC;ATP10A;APOBEC3D;LPPR3;NUDT18;ENPP1;ENTPD4;DDX10;MFN1;REXO2;ARSD

DNM3;GSN;DSN1;ACTN1;PPP2R2A;PABPC4;NFXL1;P4HA2;SP140;ENC1;SASH1;KIRREL3;PNMA2;KIAA0528;
15;RASSF5;ZEB1;ZNF638;MGAT4A;ZNF621;ADAMTS16;THRB;RFESD;ZNF776;ZNF692;ARAP3;ZBTB25;KDM3
3;PCCA;ROCK2;POLB;NOD2;EPHA4;MST4;ATP2B4;SRP54;PAPSS2;MAPK13;CDK1;NOX4;NAGK;NAV1;DDX27;
1;ABCF3;CBWD1;BCKDK;AKT2;KIAA0232;RAD51B;ATP10B;ABCB9;EARS2;ATP11C;SMC3;PSTK;CAMK2G;CII
;PPP3CB;ZNF776;ZNF692;ARAP3;ZBTB25;KDM3A;NR1D1;POLA1;ADAMTS6;PHF7;EBF1;COL9A1;ZNF705G;S
STM2;HADHB;PPAT;SRPK1;AKT3;KAT2B;KIAA1456;STK4;CHSY3;MAP2K4;METTL4;ZDHHC11;GPAM;FLT4;PI
1;NRP2;VSNL1;ENTPD4;NRXN2;CDH11;MFAP4;ANKRD5;MMP19;F13A1;ARSD

LYWCH1;MDP1;ZNF814;SALL4;ZNF674;TCF7;PRDM5;RAD51C;RBL2;THAP5;CDK2AP1;ZNF160

SMAP1;FGF13;KCNMB4;MED24;LIMD1;BRWD1;RSBN1;SFRP5;SOCS2;MAF
A;NR1D1;POLA1;ADAMTS6;PHF7;EBF1;COL9A1;ZNF705G;SP4;JMJD1C;
MOK;CHD3;DDX17;SMC2;RERG;KIF21A;MSH6;PIK3R4;CPEB3;MYO5B;MC
TA;WNK1;MARK3;MORC2;KIF11;PKN2;STRADB;MCM2;MCM2;ANKRD17;SM
P4;JMJD1C;RSPRY1;SLU7;APLP1;APOBEC3B;DZIP1L;ZBTB16;ZBED5;F
P4K2B;OAS3;WNK3;QPCTL;REV1;TYW3;EZH2;NRK;FDFT1;CASK;OXCT1;

| Pathway | Count | p-Value | q-Value |
|--|-------|----------|----------|
| Focal adhesion | 74 | 2.82E-43 | 2.27E-41 |
| MAPK signaling pathway | 75 | 2.46E-34 | 7.93E-33 |
| ECM-receptor interaction | 39 | 2.04E-28 | 3.29E-27 |
| Axon guidance | 45 | 5.69E-26 | 7.04E-25 |
| Regulation of actin cytoskeleton | 52 | 2.44E-21 | 1.09E-20 |
| Calcium signaling pathway | 45 | 4.03E-19 | 1.32E-18 |
| p53 signaling pathway | 27 | 9.45E-18 | 2.53E-17 |
| Purine metabolism | 39 | 1.53E-17 | 3.92E-17 |
| Insulin signaling pathway | 37 | 2.12E-17 | 5.28E-17 |
| Glycolysis / Gluconeogenesis | 25 | 1.61E-16 | 3.23E-16 |
| Wnt signaling pathway | 37 | 6.51E-16 | 1.20E-15 |
| Cell adhesion molecules (CAMs) | 34 | 2.53E-15 | 4.32E-15 |
| Colorectal cancer | 27 | 3.05E-15 | 5.07E-15 |
| Cell cycle | 31 | 1.93E-14 | 3.02E-14 |
| Cytokine-cytokine receptor interaction | 47 | 2.60E-14 | 3.91E-14 |
| ErbB signaling pathway | 26 | 6.98E-14 | 9.60E-14 |
| Prostate cancer | 26 | 9.44E-14 | 1.28E-13 |
| Ubiquitin mediated proteolysis | 32 | 3.06E-13 | 3.89E-13 |
| Glioma | 22 | 3.32E-13 | 4.18E-13 |
| Phosphatidylinositol signaling system | 23 | 1.42E-12 | 1.64E-12 |
| Valine, leucine and isoleucine degradation | 18 | 2.66E-12 | 2.97E-12 |
| Tight junction | 30 | 5.36E-12 | 5.83E-12 |
| Small cell lung cancer | 23 | 2.42E-11 | 2.44E-11 |
| Glycerolipid metabolism | 17 | 4.75E-11 | 4.63E-11 |
| Complement and coagulation cascades | 20 | 9.70E-11 | 9.08E-11 |
| Melanoma | 20 | 1.72E-10 | 1.54E-10 |
| Melanogenesis | 24 | 2.57E-10 | 2.25E-10 |
| Apoptosis | 22 | 3.45E-10 | 2.97E-10 |
| GnRH signaling pathway | 24 | 4.80E-10 | 4.09E-10 |
| Pyrimidine metabolism | 22 | 8.55E-10 | 7.09E-10 |
| Glycine, serine and threonine metabolism | 15 | 1.18E-09 | 9.72E-10 |
| Renal cell carcinoma | 19 | 1.28E-09 | 1.04E-09 |
| Adherens junction | 20 | 1.37E-09 | 1.11E-09 |
| Jak-STAT signaling pathway | 28 | 3.46E-09 | 2.72E-09 |
| Tyrosine metabolism | 15 | 4.84E-09 | 3.73E-09 |
| Inositol phosphate metabolism | 16 | 6.78E-09 | 5.15E-09 |
| TGF-beta signaling pathway | 20 | 8.39E-09 | 6.31E-09 |
| Fructose and mannose metabolism | 13 | 9.31E-09 | 6.97E-09 |
| Glutathione metabolism | 15 | 1.26E-08 | 9.29E-09 |
| O-Glycan biosynthesis | 12 | 1.39E-08 | 1.02E-08 |
| Lysine degradation | 15 | 1.70E-08 | 1.24E-08 |
| Natural killer cell mediated cytotoxicity | 25 | 2.21E-08 | 1.60E-08 |
| mTOR signaling pathway | 15 | 2.28E-08 | 1.63E-08 |
| VEGF signaling pathway | 18 | 2.81E-08 | 1.97E-08 |
| Urea cycle and metabolism of amino groups | 11 | 4.68E-08 | 3.21E-08 |
| Basal cell carcinoma | 15 | 5.24E-08 | 3.58E-08 |
| Fc epsilon RI signaling pathway | 18 | 5.34E-08 | 3.63E-08 |
| Aminoacyl-tRNA biosynthesis | 13 | 5.61E-08 | 3.80E-08 |
| Long-term depression | 17 | 5.70E-08 | 3.84E-08 |
| Aminosugars metabolism | 11 | 7.20E-08 | 4.76E-08 |
| Arachidonic acid metabolism | 15 | 8.84E-08 | 5.74E-08 |

| | | | |
|---|----|----------|----------|
| Pancreatic cancer | 17 | 8.85E-08 | 5.74E-08 |
| DNA polymerase | 12 | 9.73E-08 | 6.28E-08 |
| B cell receptor signaling pathway | 17 | 1.35E-07 | 8.46E-08 |
| Histidine metabolism | 11 | 1.60E-07 | 9.96E-08 |
| Type II diabetes mellitus | 13 | 1.93E-07 | 1.18E-07 |
| Epithelial cell signaling in Helicobacter py | 16 | 2.77E-07 | 1.67E-07 |
| Propanoate metabolism | 11 | 4.72E-07 | 2.73E-07 |
| Amyotrophic lateral sclerosis (ALS) | 14 | 4.72E-07 | 2.73E-07 |
| Phenylalanine metabolism | 9 | 5.31E-07 | 3.07E-07 |
| Toll-like receptor signaling pathway | 19 | 6.68E-07 | 3.79E-07 |
| Long-term potentiation | 16 | 7.54E-07 | 4.25E-07 |
| Mismatch repair | 9 | 8.34E-07 | 4.65E-07 |
| ABC transporters - General | 12 | 1.13E-06 | 6.18E-07 |
| Starch and sucrose metabolism | 13 | 1.21E-06 | 6.53E-07 |
| Glycerophospholipid metabolism | 15 | 1.29E-06 | 6.94E-07 |
| Fatty acid metabolism | 12 | 1.47E-06 | 7.89E-07 |
| Antigen processing and presentation | 17 | 1.77E-06 | 9.38E-07 |
| Glycosaminoglycan degradation | 8 | 1.79E-06 | 9.41E-07 |
| Non-small cell lung cancer | 13 | 1.92E-06 | 1.00E-06 |
| Glycosphingolipid biosynthesis - globoseries | 7 | 1.96E-06 | 1.01E-06 |
| Drug metabolism - cytochrome P450 | 15 | 2.28E-06 | 1.17E-06 |
| Notch signaling pathway | 12 | 2.43E-06 | 1.25E-06 |
| Leukocyte transendothelial migration | 20 | 2.44E-06 | 1.25E-06 |
| Pentose phosphate pathway | 9 | 2.78E-06 | 1.41E-06 |
| Alzheimer's disease | 25 | 2.89E-06 | 1.46E-06 |
| Gap junction | 17 | 3.34E-06 | 1.67E-06 |
| Glycosphingolipid biosynthesis - ganglioseri | 7 | 3.51E-06 | 1.75E-06 |
| Chronic myeloid leukemia | 15 | 3.91E-06 | 1.93E-06 |
| Cholera - Infection | 13 | 5.55E-06 | 2.72E-06 |
| Acute myeloid leukemia | 13 | 5.55E-06 | 2.72E-06 |
| Hematopoietic cell lineage | 16 | 5.92E-06 | 2.86E-06 |
| Base excision repair | 10 | 7.40E-06 | 3.56E-06 |
| Endometrial cancer | 12 | 7.62E-06 | 3.65E-06 |
| Bile acid biosynthesis | 9 | 7.78E-06 | 3.71E-06 |
| Alanine and aspartate metabolism | 9 | 7.78E-06 | 3.71E-06 |
| Nucleotide excision repair | 11 | 7.96E-06 | 3.78E-06 |
| Metabolism of xenobiotics by cytochrome P450 | 14 | 8.14E-06 | 3.86E-06 |
| Autoimmune thyroid disease | 12 | 9.40E-06 | 4.39E-06 |
| Allograft rejection | 10 | 1.26E-05 | 5.75E-06 |
| Butanoate metabolism | 10 | 1.26E-05 | 5.75E-06 |
| Nitrogen metabolism | 8 | 1.39E-05 | 6.30E-06 |
| Nicotinate and nicotinamide metabolism | 8 | 1.39E-05 | 6.30E-06 |
| Neuroactive ligand-receptor interaction | 30 | 1.49E-05 | 6.66E-06 |
| Glycosylphosphatidylinositol (GPI)-anchor bio | 8 | 1.95E-05 | 8.57E-06 |
| N-Glycan degradation | 6 | 1.97E-05 | 8.59E-06 |
| 1- and 2-Methylnaphthalene degradation | 6 | 1.97E-05 | 8.59E-06 |
| Pyruvate metabolism | 10 | 2.60E-05 | 1.11E-05 |
| Galactose metabolism | 8 | 2.69E-05 | 1.14E-05 |
| Graft-versus-host disease | 10 | 3.25E-05 | 1.36E-05 |
| Biosynthesis of steroids | 8 | 4.90E-05 | 1.99E-05 |
| Type I diabetes mellitus | 10 | 5.01E-05 | 2.03E-05 |
| Pantothenate and CoA biosynthesis | 6 | 5.27E-05 | 2.12E-05 |

| | | | |
|--|----|-----------|-----------|
| Thyroid cancer | 8 | 6.47E-05 | 2.56E-05 |
| beta-Alanine metabolism | 7 | 9.38E-05 | 3.59E-05 |
| T cell receptor signaling pathway | 16 | 1.06E-04 | 4.03E-05 |
| Adipocytokine signaling pathway | 12 | 1.10E-04 | 4.20E-05 |
| Glutamate metabolism | 7 | 1.27E-04 | 4.74E-05 |
| PPAR signaling pathway | 12 | 1.71E-04 | 6.31E-05 |
| Limonene and pinene degradation | 6 | 1.72E-04 | 6.33E-05 |
| Drug metabolism - other enzymes | 10 | 1.87E-04 | 6.87E-05 |
| Bladder cancer | 9 | 1.92E-04 | 7.00E-05 |
| Selenoamino acid metabolism | 7 | 2.21E-04 | 7.97E-05 |
| Tryptophan metabolism | 9 | 2.32E-04 | 8.37E-05 |
| 3-Chloroacrylic acid degradation | 5 | 2.87E-04 | 1.03E-04 |
| Circadian rhythm | 5 | 2.87E-04 | 1.03E-04 |
| Homologous recombination | 7 | 3.64E-04 | 1.29E-04 |
| Hedgehog signaling pathway | 10 | 4.82E-04 | 1.67E-04 |
| Sphingolipid metabolism | 8 | 5.94E-04 | 2.05E-04 |
| Atrazine degradation | 4 | 6.43E-04 | 2.19E-04 |
| Synthesis and degradation of ketone bodies | 4 | 6.43E-04 | 2.19E-04 |
| Reductive carboxylate cycle (CO2 fixation) | 4 | 0.0010292 | 3.43E-04 |
| Folate biosynthesis | 7 | 0.0010537 | 3.48E-04 |
| Citrate cycle (TCA cycle) | 7 | 0.0010537 | 3.48E-04 |
| Parkinson's disease | 16 | 0.0013075 | 4.22E-04 |
| Primary immunodeficiency | 7 | 0.0015198 | 4.88E-04 |
| Pathogenic Escherichia coli infection - EHEC | 9 | 0.0015282 | 4.90E-04 |
| Pathogenic Escherichia coli infection - EPEC | 9 | 0.0015282 | 4.90E-04 |
| Cysteine metabolism | 4 | 0.0031055 | 9.59E-04 |
| Sulfur metabolism | 4 | 0.0031055 | 9.59E-04 |
| Non-homologous end-joining | 4 | 0.0041767 | 0.0012546 |
| N-Glycan biosynthesis | 7 | 0.0051431 | 0.0015334 |
| Keratan sulfate biosynthesis | 4 | 0.0054719 | 0.001618 |
| Benzoate degradation via CoA ligation | 4 | 0.0054719 | 0.001618 |
| One carbon pool by folate | 4 | 0.0070101 | 0.0020409 |
| Arginine and proline metabolism | 6 | 0.0083417 | 0.0024043 |
| Taurine and hypotaurine metabolism | 3 | 0.0115163 | 0.0032302 |
| Geraniol degradation | 2 | 0.0140338 | 0.0038656 |
| Porphyrin and chlorophyll metabolism | 6 | 0.0155906 | 0.00424 |
| Protein export | 3 | 0.0195904 | 0.0052611 |
| Chondroitin sulfate biosynthesis | 4 | 0.0222055 | 0.0059239 |
| Oxidative phosphorylation | 13 | 0.0224485 | 0.0059739 |
| Lysine biosynthesis | 2 | 0.0226168 | 0.0059939 |
| Androgen and estrogen metabolism | 6 | 0.023875 | 0.0063014 |
| Methionine metabolism | 4 | 0.0258419 | 0.0067816 |
| Regulation of autophagy | 5 | 0.0290524 | 0.0075932 |
| Fatty acid biosynthesis | 2 | 0.0328092 | 0.008418 |
| Riboflavin metabolism | 3 | 0.0362425 | 0.0092181 |
| Glycosphingolipid biosynthesis - lactoseries | 4 | 0.038785 | 0.0098337 |
| Caffeine metabolism | 2 | 0.0444284 | 0.011133 |
| Methane metabolism | 2 | 0.0444284 | 0.011133 |
| D-Arginine and D-ornithine metabolism | 1 | 0.0500371 | 0.0123843 |
| Renin-angiotensin system | 3 | 0.0503127 | 0.0123953 |
| Taste transduction | 6 | 0.0520502 | 0.0127745 |
| Cyanoamino acid metabolism | 2 | 0.0573064 | 0.0139793 |

| | | | |
|---|----|-----------|-----------|
| Asthma | 4 | 0.0608445 | 0.0147087 |
| Alkaloid biosynthesis II | 2 | 0.0712883 | 0.0171049 |
| Fatty acid elongation in mitochondria | 2 | 0.0862313 | 0.0204767 |
| Ether lipid metabolism | 4 | 0.0958772 | 0.0225346 |
| Valine, leucine and isoleucine biosynthesis | 2 | 0.1020043 | 0.0236638 |
| Aminophosphonate metabolism | 2 | 0.1020043 | 0.0236638 |
| C21-Steroid hormone metabolism | 2 | 0.1020043 | 0.0236638 |
| Retinol metabolism | 6 | 0.1060055 | 0.0244161 |
| Systemic lupus erythematosus | 11 | 0.1078328 | 0.0248015 |
| Basal transcription factors | 4 | 0.112037 | 0.0257317 |
| Pentose and glucuronate interconversions | 3 | 0.1272649 | 0.0290222 |
| Ascorbate and aldarate metabolism | 3 | 0.1388058 | 0.0314314 |
| Tetrachloroethene degradation | 1 | 0.1427284 | 0.0321164 |
| Styrene degradation | 1 | 0.1427284 | 0.0321164 |
| Heparan sulfate biosynthesis | 3 | 0.1628696 | 0.0361683 |
| Glyoxylate and dicarboxylate metabolism | 2 | 0.171135 | 0.0378732 |
| RNA polymerase | 3 | 0.175337 | 0.0386702 |
| D-Glutamine and D-glutamate metabolism | 1 | 0.1856266 | 0.0406888 |
| Linoleic acid metabolism | 3 | 0.1880584 | 0.0409708 |
| Proteasome | 4 | 0.2182704 | 0.0472332 |
| Ubiquinone biosynthesis | 1 | 0.2263791 | 0.0478706 |
| Bisphenol A degradation | 1 | 0.2263791 | 0.0478706 |
| Peptidoglycan biosynthesis | 1 | 0.2263791 | 0.0478706 |
| Vitamin B6 metabolism | 1 | 0.2263791 | 0.0478706 |
| alpha-Linolenic acid metabolism | 2 | 0.2267163 | 0.0478706 |
| gamma-Hexachlorocyclohexane degradation | 2 | 0.2267163 | 0.0478706 |
| Terpenoid biosynthesis | 1 | 0.2650931 | 0.0550354 |
| Nucleotide sugars metabolism | 1 | 0.2650931 | 0.0550354 |
| SNARE interactions in vesicular transport | 3 | 0.2958887 | 0.0607629 |
| Thiamine metabolism | 1 | 0.3018705 | 0.0615984 |
| Caprolactam degradation | 1 | 0.3018705 | 0.0615984 |
| Maturity onset diabetes of the young | 2 | 0.3395288 | 0.0685874 |
| Ribosome | 2 | 0.9662192 | 0.1901727 |
| Olfactory transduction | 11 | 0.9865909 | 0.1939452 |

| Gene | Input Symbol |
|--|--------------|
| CTNNB1; THBS4; FN1; VEGFA; ITGB4; ITGA3; CDKN1A; EGFR; THBS1; LAMA3; NTRK2; PLA2G4A; RASGRF2; EGFR; NTRK2; PLA2G4A; RASGRF2; EGFR; CACNB3; CACNA1I; PDGFRA; PPP3CA; I | |
| THBS4; FN1; ITGB4; ITGA3; THBS1; THBS4; FN1; ITGB4; ITGA3; THBS1; LAMA3; LAMA3; CD44; COL5A3; COL1A1; PAK3; SEMA6D; ABLIM1; NTN4; PPF; CDKN1A; SEMA6D; ABLIM1; NTN4; PPP3CA; EFN1; LIMK2; PLXNA2; RGS3 | |
| CHRM2; FN1; ITGB4; ITGA3; PAK3; CHRM2; FN1; ITGB4; ITGA3; CDKN1A; EGFR; BAIAP2; PIP5K1A; PDGFRA; I | |
| CHRM2; BST1; ITPR1; EGFR; SLC8A1; CHRM2; BST1; ITPR1; EGFR; SLC8A1; CACNA1I; RYR1; PDGFRA; PPP3CA; I | |
| CDKN1A; THBS1; MDM2; GTSE1; SEF; CDKN1A; THBS1; MDM2; GTSE1; SERPINE1; TP53I3; CDKN2A; RRM2; CCNB2; PDE4B; PDE4D; AK5; PDE7A; ADSSI; PDE4B; PDE4D; AK5; PDE7A; ADSSL1; AMPD3; ENTPD3; PDE1C; XDH; NT5E | |
| PPARGC1A; PFKP; PRKCZ; PDPK1; PPF; PPARGC1A; PFKP; PRKCZ; PDK1; PYGL; PRKAA2; SOCS2; SH2B2; PTPRF; PI | |
| PFKP; HK2; ALDH3A1; ENO2; ACSS2; PFKP; HK2; ALDH3A1; ENO2; ACSS2; ALDH3A2; GK; ACSS1; TPI1; ALDOA; I | |
| CTNNB1; SMAD3; PPP3CA; BTRC; FZ; CTNNB1; SMAD3; PPP3CA; BTRC; FZD4; CSNK1A1; SFRP5; FOSL1; NFATC3 | |
| HLA-A; NRCAM; HLA-DPB1; NFASC; HLA-A; NRCAM; HLA-DPB1; NFASC; HLA-B; PVRL3; HLA-C; VCAM1; CDH4; I | |
| CTNNB1; EGFR; SMAD3; PDGFRA; FZ; CTNNB1; EGFR; SMAD3; PDGFRA; FZD4; FZD6; MAPK8; RALGDS; MET; LEF1 | |
| CDC20; CDKN1A; SMAD3; MDM2; PRK; CDC20; CDKN1A; SMAD3; MDM2; PRKDC; ORC1; CDKN2A; MCM7; CDC14A; BUI | |
| VEGFA; CX3CR1; TNFRSF11B; EGFR; VEGFA; CCRL1; TNFRSF11B; EGFR; CXCL2; TNFSF15; TNFRSF19; PDGFRA | |
| NRG1; CDKN1A; PAK3; EGFR; NRG2; NRG1; CDKN1A; CDKN1A; EGFR; NRG2; TGFA; CAMK2D; SHC4; MAPK8; GAB1 | |
| CTNNB1; CDKN1A; EGFR; PDGFRA; M; CTNNB1; CDKN1A; EGFR; PDGFRA; MDM2; TGFA; PDK1; FGFR2; LEF1; CREB; | |
| CDC20; KLHL13; UBR5; UBE2D3; M; CDC20; KLHL13; UBR5; UBE2D3; MDM2; BTRC; HERC3; UBE2C; MAP3K1; BII | |
| CDKN1A; EGFR; PDGFRA; MDM2; TG; CDKN1A; EGFR; PDGFRA; MDM2; TGFA; CDKN2A; CAMK2D; SHC4; PDGFA; PTI | |
| ITPR1; SYNJ1; PIP5K1A; OCRL; PI; ITPR1; SYNJ1; PIP5K1A; INPP5F; PIK3C2B; ITPR2; SYNJ2; DGKI; DGKG | |
| ALDH3A1; ALDH3A2; HSD17B4; BC; ALDH3A1; ALDH3A2; DBP; BCKDHB; ACAT1; ACADSB; HMGCS1; BCKDHA; BC; | |
| CTNNB1; PRKCH; PRKCZ; MAGI3; M; CTNNB1; PRKCH; PRKCZ; MAGI3; MAGI2; EPB41L1; INADL; EPB41; PPP2R2; | |
| FN1; ITGA3; PTGS2; LAMA3; LAMA; FN1; ITGA3; PTGS2; LAMA3; LAMA3; ITGA2; LAMA2; LAMA4; LAMB2; LAMB2; | |
| ALDH3A1; ALDH3A2; MGLL; LPL; A; ALDH3A1; ALDH3A2; MGLL; LPL; AKR1B1; GK; DGKI; DGKG; AGPAT1; PNPLA | |
| CFB; C3; MASP1; SERPINA1; PLAT; CFB; C3; MASP1; SERPINA1; PLAT; BDKRB2; CD55; SERPINE1; TFPI; CD46 | |
| CDKN1A; EGFR; PDGFRA; MDM2; FGF; CDKN1A; EGFR; PDGFRA; MDM2; FGF18; FGF13; CDKN2A; MITF; FGF1; MET | |
| CTNNB1; EDN1; DCT; FZD4; ADCY3; CTNNB1; EDN1; DCT; FZD4; ADCY3; ADCY3; CAMK2D; GNAO1; FZD6; MITF; I | |
| PPP3CA; NGF; NTRK1; PRKAR2B; P; PPP3CA; NGF; NTRK1; PRKAR2B; PRKX; PPP3CB; ATM; IRAK2; IL1RAP; PII | |
| PLA2G4A; ITPR1; EGFR; MAP3K1; A; PLA2G4A; ITPR1; EGFR; MAP3K1; ADCY3; ADCY3; CAMK2D; ITPR2; CACNA | |
| UPRT; ENTPD3; NT5E; TYMS; POLD; UPRT; ENTPD3; NT5E; TYMS; POLD3; TXNRD1; RRM2; ENTPD6; TK1; DPYD; I | |
| MAOB; TARSL2; PHGDH; SHMT1; AG; MAOB; TARSL2; PGD; SHMT1; AGT; SMAD1; DMGDH; CHDH; DAO; PIPOX; MAO | |
| EGLN3; VEGFA; PAK3; TGFA; ETS1; EGLN3; VEGFA; CDKN1A; TGFA; ETS1; TCEB1; MET; EGLN1; GAB1; PGF; PII | |
| CTNNB1; EGFR; PVRL3; SMAD3; BA; CTNNB1; EGFR; PVRL3; SMAD3; BAIAP2; SSX2IP; ACTN1; MLLT4; PTPRF; M | |
| STAT1; SOCS5; SOCS2; IL15RA; SF; STAT1; SOCS5; SOCS2; IL15RA; SPRY4; IL21R; IL6ST; SOCS7; SOCS7; PI | |
| ALDH3A1; HPD; DCT; MAOB; WBSCR; ALDH3A1; HPD; DCT; MAOB; WBSCR22; ALDH1A3; HEMK1; ALDH3B1; PNPLA; | |
| SYNJ1; PIP5K1A; OCRL; PIK3C2B; SYNJ1; PIP5K1A; INPP5F; PIK3C2B; TPI1; SYNJ2; INPP5B; PLCD4; PTEI | |
| THBS4; THBS1; SMAD3; ID2; ZFYVE; THBS4; THBS1; SMAD3; ID2; ZFYVE16; CHR1; DCN; BMP1B; ROCK2; THBS; | |
| PFKFB3; PFKP; HK2; AKR1B1; MTM; PFKFB3; PFKP; HK2; AKR1B1; MTMR1; GK; PFKFB4; TPI1; SORD; ALDOA; PI | |
| GSTM1; GSTT1; GPX3; GGT7; PGD; F; GSTM1; GSTT1; GPX3; GGT7; PGD; RRM2; GSTM3; RRM2B; SMS; GSTA4; GSTI | |
| WBSCR17; ST3GAL1; GALNT2; GAL; WBSCR17; ST3GAL1; GALNT2; GALNT12; GALNTL1; C1GALT1; GALNT13; G | |
| ALDH3A1; ALDH3A2; HSD17B4; AAS; ALDH3A1; ALDH3A2; DBP; AASS; PLOD1; ACAT1; OGDH; AASDH; WHSC1; SU | |
| HLA-A; HLA-B; HLA-C; PPP3CA; S; HLA-A; HLA-B; HLA-C; PPP3CA; SH3BP2; MICA; NFATC3; SHC4; NFATC2; I | |
| VEGFA; RPS6KA1; PDPK1; RPS6KA; VEGFA; RPS6KA1; PDK1; RPS6KA6; CAB39L; PRKAA2; PGF; PIK3R1; AKT2 | |
| VEGFA; PLA2G4A; PTGS2; PPP3CA; VEGFA; PLA2G4A; PTGS2; PPP3CA; NFATC3; MAPKAPK3; SPHK1; NFATC2; I | |
| ALDH3A1; ALDH3A2; MAOB; SAT1; C; ALDH3A1; ALDH3A2; MAOB; SAT1; CPS1; ADC; SMS; SAT2; DAO; ALDH7A1; M | |
| CTNNB1; HHIP; FZD4; FZD6; STK3; CTNNB1; HHIP; FZD4; FZD6; STK36; SMO; LEF1; TCF7L2; GLI1; WNT9B; P | |
| PLA2G4A; PDK1; LYN; MAPK8; MAP; PLA2G4A; PDK1; LYN; MAPK8; MAP2K3; PLA2G2A; MAPK13; PIK3R1; PRKCI | |
| LARS; TARSL2; NARS2; DARS; EARS; LARS; TARSL2; NARS2; DARS; EARS2; PSTK; SEPSECS; SMAD1; CARS2; CAI | |
| PLA2G4A; ITPR1; RYR1; LYN; GRI; PLA2G4A; ITPR1; RYR1; LYN; GRIA1; GNAZ; GNAO1; ITPR2; CACNA1A; GR | |
| HK2; MTMR1; GCK; CHIT1; GNPDA1; HK2; MTMR1; GK; CHIT1; GPI; HEXB; CMAS; NAGK; HEXA; NPL; CYB5R3 | |
| PLA2G4A; ALOX15B; PTGS2; AKR1; PLA2G4A; ALOX15B; PTGS2; AKR1C3; EPHX2; GPX3; GGT7; PTGDS; TBXAS; | |

VEGFA; STAT1; EGFR; SMAD3; TGFA; VEGFA; STAT1; EGFR; SMAD3; TGFA; CDKN2A; MAPK8; RALGDS; BRCA2; PGRFC4; POLD3; MCM7; MCM2; POLA1; RFC4; POLD3; MCM7; CCNL1; POLA1; PCNA; POLE; POLA2; RNASEH2B; MCM2PPP3CA; LYN; CD81; NFATC3; PIK3AP1; NFATC2; CD72; PPP3CB; NFATC1; ALDH3A1; ALDH3A2; MAOB; WBSR2; ALDH3A1; ALDH3A2; MAOB; WBSR22; ALDH1A3; HEMK1; ALDH3B1; HNMT; IPRKCZ; SOCS2; CACNA1A; CACNA1I; PRKCZ; SOCS2; CACNA1A; CACNA1D; MAPK8; PKM; SOCS7; CACNA1B; CACNA1E; EGFR; LYN; ATP6V1B1; MAPK8; ATF; EGFR; LYN; ATP6V1B1; MAPK8; ATP6V0E2; MET; MAPK13; JAM2; ATP6V1H; ALDH3A1; ACSS2; ALDH3A2; ACSS1; ALDH3A1; ACSS2; ALDH3A2; ACSS1; ACAT1; PCCA; LDHA; ALDH7A1; HIBC1; PPP3CA; GRIA1; MAP2K3; PPP3CB; PPP3CA; GRIA1; MAP2K3; PPP3CB; CASP1; SOD1; MAPK13; DERL1; RAC1; IALDH3A1; HPD; MAOB; ALDH1A3; AI; ALDH3A1; HPD; MAOB; ALDH1A3; ALDH3B1; PNPLA3; NAT6; LCLAT1; MAOA; STAT1; TLR5; MAPK8; MAP2K3; IRF; STAT1; TLR5; MAPK8; MAP2K3; IRF5; TLR1; MAPK13; TLR3; PIK3R1; CASP1; ITPR1; PPP3CA; RPS6KA1; RPS6KA1; ITPR1; PPP3CA; RPS6KA1; RPS6KA6; GRIA1; ADCY3; CAMK2D; ITPR2; PRIRFC4; POLD3; PMS2; PCNA; MSH6; M; RFC4; POLD3; PMS2; PCNA; MSH6; MSH2; RPA3; MSH3; RFC5; ABCC9; ABCC1; ABCA5; ABCA4; ABC; ABCC9; ABCC1; ABCA5; ABCA4; ABCC2; ABCA1; ABCB6; ABCB9; ABCC4; ABC; HK2; PYGL; GCK; GPI; GUSB; GYS1; HK2; PYGL; GK; GPI; GUSB; GYS1; GBE1; AGL; PGM2; PGM2L1; AMY2A; UGP2; PLA2G4A; GPD2; DGKI; DGKG; AGP; PLA2G4A; GPD2; DGKI; DGKG; AGPAT1; PNPLA3; PLA2G2A; DGKD; NAT6; LALDH3A1; ALDH3A2; HSD17B4; AC; ALDH3A1; ALDH3A2; DBP; ACAT1; ACADSB; ACADVL; ACSL5; ADH1C; HADH1; HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-A; HLA-DPB1; HLA-B; HLA-C; LGMN; HLA-DPA1; HLA-DRB3; HLA-F; IHYAL1; SPAM1; GUSB; HEXB; HYAL1; HYAL1; HYAL1; GUSB; HEXB; NAT6; ARSB; HEXA; HGSNAT; EBP; HYAL3; EGFR; TGFA; PDPK1; CDKN2A; RASS; EGFR; TGFA; PDK1; CDKN2A; RASSF5; PIK3R1; RARB; AKT2; HGF; AKT3; ST3GAL1; HEXB; HEXA; ST8SIA1; ST3GAL1; HEXB; HEXA; ST8SIA1; NAGA; GBGT1; A4GALT; GSTM1; GSTT1; ALDH3A1; MAOB; AI; GSTM1; GSTT1; ALDH3A1; MAOB; ALDH1A3; GSTM3; FM04; ALDH3B1; CYP2CNOTCH3; NOTCH4; MAML3; JAG1; HE; NOTCH3; NOTCH3; MAML3; JAG1; HES1; RBPJ; DTX3L; HDAC2; NCOR2; HDACCTNNB1; VCAM1; ACTN1; MLLT4; MY; CTNNB1; VCAM1; ACTN1; MLLT4; MYL5; RASSF5; PTK2B; CLDN1; ROCK2; M; PFKP; TKT; ALDOA; PGD; PFKL; ALI; PFKP; TKT; ALDOA; PGD; PFKL; ALDOC; GPI; H6PD; PGM2; NDUFA4L2; ITPR1; SDHA; PPP3CA; NDUFA4L2; ITPR1; SDHA; PPP3CA; LPL; NDUFA10; EIF2AK3; ITPR2; NDUITPR1; EGFR; PDGFRA; TUBA4A; AI; ITPR1; EGFR; PDGFRA; TUBA4A; ADCY3; ADCY3; ITPR2; MAP2K5; ADCY2; I; ST3GAL1; HEXB; HEXA; ST8SIA1; ST3GAL1; HEXB; HEXA; ST8SIA1; EBP; ST3GAL5; ST6GALNAC5; CDKN1A; SMAD3; BCR; MDM2; CDKN2; CDKN1A; SMAD3; BCR; MDM2; CDKN2A; SHC4; HDAC2; STAT5B; HDAC1; PIK; ATP6V1B1; ADCY3; ATP6V0E2; ER; ATP6V1B1; ADCY3; ATP6V0E2; ERO1L; PRKX; GNAS; KDELR3; SLC12A2; SILEF1; ZBTB16; TCF7L2; STAT5B; I; LEF1; ZBTB16; TCF7L2; STAT5B; PIK3R1; AKT2; MTOR; HGF; AKT3; TCF4; ITGA3; CD44; CD55; HLA-DRB3; I; ITGA3; CD44; CD55; HLA-DRB3; ITGA2; TFRC; ITGA1; CD4; MME; FLT3LG; POLD3; PARP3; HMGB1; PCNA; POLI; POLD3; PARP3; HMGB1; PCNA; POLE; POLB; PARP1; TDG; NEIL3; OGG1; CTNNB1; EGFR; PDPK1; LEF1; TCF7; CTNNB1; EGFR; PDK1; LEF1; TCF7L2; PTEN; PIK3R1; AKT2; HGF; AKT3; T; ALDH3A1; ALDH3A2; SOAT1; ADH1C; ALDH3A1; ALDH3A2; ACAT1; ADH1C; ACAD9; HADHB; ALDH7A1; ADH5; FAP; ADSSL1; NARS2; DARS; CRAT; AGX1; ADSSL1; NARS2; DARS; CRAT; AGT; PC; DARS2; GPT2; ASNS; RFC4; POLD3; CUL4B; PCNA; ERCC4; RFC4; POLD3; CUL4B; PCNA; RAD1; POLE; CUL4A; XPC; RPA3; ERCC3; RFC; AKR1C1; GSTM1; GSTT1; ALDH3A1; AKR1C1; GSTM1; GSTT1; ALDH3A1; AKR1C3; ALDH1A3; GSTM3; ALDH3B1; (HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-A; HLA-DPB1; HLA-B; HLA-C; TG; HLA-DPA1; HLA-DRB3; HLA-F; HLAHLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-DPA1; HLA-DRB3; HLA-F; HLA-G; ALDH3A1; ALDH3A2; HSD17B4; AC; ALDH3A1; ALDH3A2; DBP; ACAT1; ACSM5; L2HGDH; HMGCS1; HMGCL; OXCT; CA2; CA12; CPS1; CA5B; GLUD1; CA; CA2; CA12; CPS1; CA5B; GLUD1; CA9; GLUL; ASNS; NNMT; BST1; NAMPT; NT5E; NNT; N; NNMT; BST1; NAMPT; NT5E; NNT; NADSYN1; NT5C2; ENPP1; CHRM2; P2RY6; GRIA1; BDKRB2; DF; CHRM2; P2RY6; GRIA1; BDKRB2; DRD4; MCHR1; OXTR; NPFFR1; GRIA3; FPI; PGAP1; PIGN; PIGU; PIGG; PGAP1; BST1; PIGN; GAB1; PIGG; PGAP1; PIGS; PIGW; PIGL; PIGP; GBA; FUCA1; HEXB; HEXA; MANBA; C; GBA; FUCA1; HEXB; HEXA; MANBA; EBP; PNPLA3; NAT6; LCLAT1; ADH1C; AC; PNPLA3; NAT6; LCLAT1; ADH1C; ACAD9; ADH5; ALDH3A1; ACSS2; ALDH3A2; AKR1E; ALDH3A1; ACSS2; ALDH3A2; AKR1B1; ACSS1; ACAT1; PKM; LDHA; PC; AR; I; PFKP; HK2; AKR1B1; GCK; PFKL; A; PFKP; HK2; AKR1B1; GK; PFKL; AR; PGM2; UGP2; EBP; HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-DPA1; HLA-DRB3; HLA-F; HLA-G; NQO1; SOAT1; CYP51A1; HSD17B7; NQO1; ACAT1; CYP51A1; HSD17B7; HMGCR; FDFT1; EBP; FAP; HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-A; HLA-DPB1; HLA-B; HLA-C; HLA-DPA1; HLA-DRB3; HLA-F; ICA1; I; DPYD; BCAT2; PANK1; COASY; ENP; DPYD; BCAM; PANK1; PPAT; ENPP1; PPCS

CTNNB1;NTRK1;PPARG;LEF1;TCF CTNNB1;NTRK1;PPARG;LEF1;TCF7L2;TCF4;BRAF;TPR;TCF7
 ALDH3A1;ALDH3A2;DPYD;SMS;AI ALDH3A1;ALDH3A2;DPYD;SMS;ALDH7A1;HIBCH;ACADM
 PAK3;PPP3CA;PDK1;NFATC3;NFATCDKN1A;PPP3CA;PDK1;NFATC3;NFATC2;PPP3CB;CD4;MAPK13;NFATC
 PPARGC1A;PRKAA2;MAPK8;ACSL5;PPARGC1A;PRKAA2;MAPK8;ACSL5;AKT2;MTOR;SLC2A1;PRKAB1;AKT3
 CPS1;GLUD1;EARS2;NADSYN1;PF CPS1;GLUD1;EARS2;NADSYN1;PPAT;GLUL;GPT2
 LPL;ACOX2;PDPK1;GK;PPARG;SC LPL;ACOX2;PDK1;GK;PPARG;SORBS1;ACSL5;NR1H3;PLTP;FABP3;SCI
 ALDH3A1;ALDH3A2;PNPLA3;NAT6;ALDH3A1;ALDH3A2;PNPLA3;NAT6;LCLAT1;ALDH7A1
 XDH;GUSB;TK1;DPYD;TK1;TK2;FXDH;GUSB;TK1;DPYD;TK2;TK2;HPRT1;CES2;CES2;CDA;NAT1
 VEGFA;CDKN1A;EGFR;THBS1;MDM VEGFA;CDKN1A;EGFR;THBS1;MDM2;CDKN2A;PGF;FGFR3;BRAF
 GGT7;WBSCR22;HEMK1;PAPSS2;FGGT7;WBSCR22;HEMK1;PAPSS2;AHCYL2;CBS;MARS
 ALDH3A1;ALDH3A2;HSD17B4;MAC ALDH3A1;ALDH3A2;DBP;MAOB;ACAT1;OGDH;DAO;ALDH7A1;MAOA
 ALDH3A1;ALDH3A2;ADH1C;ALDH7 ALDH3A1;ALDH3A2;ADH1C;ALDH7A1;ADH5
 NPAS2;NR1D1;PER3;BHLHE41;AF NPAS2;NR1D1;PER3;BHLHE41;ARNTL
 POLD3;NBN;BRCA2;RAD51L1;RPA POLD3;NBN;BRCA2;RAD51B;RPA3;TOP3B;RAD51C
 HHIP;BTRC;CSNK1A1;STK36;SMC HHIP;BTRC;CSNK1A1;STK36;SMO;PRKX;GLI1;WNT9B;PTCH1;SUFU
 UGCG;SGPP2;GBA;GALC;SPHK1;F UGCG;SGPP2;GBA;GALC;SPHK1;B4GALT6;EBP;ARSD
 APOBEC3G;APOBEC3F;APOBEC3B;APOBEC3G;APOBEC3F;APOBEC3B;APOBEC3C
 ACAT1;HMGCS1;HMGCL;OXCT1 ACAT1;HMGCS1;HMGCL;OXCT1
 ACSS2;ACSS1;ACO1;ACO2 ACSS2;ACSS1;ACO1;ACO2
 DDX54;GGH;DHX58;DDX50;DDX55;DDX54;GGH;DHX58;DDX50;DDX55;IFIH1;PTS
 SDHA;IDH3G;SDHC;OGDH;ACO1;F SDHA;IDH3G;SDHC;OGDH;ACO1;ACO2;PC
 NDUFA4L2;SDHA;NDUFA10;NDUFS NDUFA4L2;SDHA;NDUFA10;NDUFS7;SLC6A3;LRRK2;ATP5A1;SDHC;SN
 RFX5;CD4;CIITA;LCK;CD40;DCI RFX5;CD4;CIITA;LCK;CD40;DCLRE1C;TAP2
 CTNNB1;TUBA4A;TLR5;KRT18;NC CTNNB1;TUBA4A;TLR5;KRT18;NCL;CLDN1;ROCK2;YWHAZ;NCK1
 CTNNB1;TUBA4A;TLR5;KRT18;NC CTNNB1;TUBA4A;TLR5;KRT18;NCL;CLDN1;ROCK2;YWHAZ;NCK1
 CD01;CARS2;LDHA;CARS CD01;CARS2;LDHA;CARS
 PAPSS2;SULT1A1;SULT1A2;CHS1 PAPSS2;SULT1A1;SULT1A2;CHST11
 PRKDC;NHEJ1;LIG4;DCLRE1C PRKDC;NHEJ1;LIG4;DCLRE1C
 MGAT4B;MGAT5;RPN2;MGAT1;MGAT4B;MGAT5;RPN2;MGAT1;MGAT4A;ALG9;ALG13
 CHST1;ST3GAL1;CHST6;B4GALT4 CHST1;ST3GAL1;CHST6;B4GALT4
 ACAT1;PNPLA3;NAT6;LCLAT1 ACAT1;PNPLA3;NAT6;LCLAT1
 TYMS;SHMT1;GART;ALDH1L1 TYMS;SHMT1;GART;ALDH1L1
 P4HA1;P4HA2;CPS1;OAT;GLUD1;P4HA1;P4HA2;CPS1;OAT;GLUD1;DAO
 GGT7;CSAD;CD01 GGT7;CSAD;CD01
 HSD17B4;ACAD9 DBP;ACAD9
 CP;HMOX1;GUSB;EARS2;CPOX;MM CP;HMOX1;GUSB;EARS2;CPOX;MMAB
 SRP54;OXA1L;SRP19 SRP54;OXA1L;SRP19
 CSGALNACT1;CHSY3;XYLT2;CHS1 CSGALNACT1;CHSY3;XYLT2;CHST11
 NDUFA4L2;SDHA;NDUFA10;ATP6V NDUFA4L2;SDHA;NDUFA10;ATP6V1B1;NDUFS7;ATP6VOE2;ATP5A1;SDI
 AASS;AASDH AASS;AASDH
 WBSCR22;HSD11B1;HEMK1;HSD17 WBSCR22;HSD11B1;HEMK1;HSD17B7;CYP19A1;ARSD
 DNMT3A;AHCYL2;CBS;MARS DNMT3A;AHCYL2;CBS;MARS
 ATG4B;PRKAA2;PIK3R4;ATG4C;F ATG4B;PRKAA2;PIK3R4;ATG4C;ATG12
 OXSM;FASN OXSM;FAS
 MTMR1;ACP1;ENPP1 MTMR1;ACP1;ENPP1
 ST3GAL6;ST3GAL4;B4GALT4;ST8 ST3GAL6;ST3GAL4;B4GALT4;ST8SIA1
 XDH;NAT1 XDH;NAT1
 SHMT1;ADH5 SHMT1;ADH5
 DAO DAO
 AGT;MME;ANPEP AGT;MME;ANPEP
 ADCY8;CACNA1A;PRKX;GNAS;CAC ADCY3;CACNA1A;PRKX;GNAS;CACNA1B;SCNN1A
 GGT7;SHMT1 GGT7;SHMT1

| | |
|--|--|
| HLA-DPB1 ;HLA-DPA1 ;HLA-DRB3 ;HLA-DPB1 ;HLA-DPA1 ;HLA-DRB3 ;CD40 | |
| PLA1A ;CES1 | PLA1A ;CES2 |
| HSD17B4 ;HADHB | DBP ;HADHB |
| PLA2G4A ;AGPAT1 ;PLA2G2A ;LCLAT1 | PLA2G4A ;AGPAT1 ;PLA2G2A ;LCLAT1 |
| LARS ;BCAT2 | LARS ;BCAM |
| WBSCR22 ;HEMK1 | WBSCR22 ;HEMK1 |
| CYP21A2 ;HSD11B1 | CPS1 ;HSD11B1 |
| CYP26A1 ;CYP2C8 ;ADH1C ;ADH5 ; | CYP26A1 ;CYP2C8 ;ADH1C ;ADH5 ;ALDH1A1 ;ALDH1A2 |
| TROVE2 ;HLA-DPB1 ;C3 ;HLA-DPA1 | TROVE2 ;HLA-DPB1 ;C3 ;HLA-DPA1 ;FCGR2A ;HLA-DRB3 ;ACTN1 ;C1S ;CD40 |
| TBPL1 ;TAF1 ;TBP ;GTF2A2 | TBPL1 ;TAF1 ;TBP ;GTF2A2 |
| AKR1B1 ;GUSB ;AKR1B1 ;UGP2 | AKR1B1 ;GUSB ;AR ;UGP2 |
| ALDH3A1 ;ALDH3A2 ;ALDH7A1 | ALDH3A1 ;ALDH3A2 ;ALDH7A1 |
| EPHX2 | EPHX2 |
| FAH | FAH |
| HS6ST1 ;XYLT2 ;EXT2 | HS6ST1 ;XYLT2 ;EXT2 |
| ACO1 ;ACO2 | ACO1 ;ACO2 |
| POLR3A ;POLR2B ;POLR2D | POLR3A ;POLR2B ;POLR2D |
| GLUD1 | GLUD1 |
| PLA2G4A ;PLA2G2A ;CYP2C8 | PLA2G4A ;PLA2G2A ;CYP2C8 |
| PSMD1 ;PSMB8 ;PSMD1 ;PSMA4 ;PSM | RPN2 ;PSMB8 ;PSMD1 ;PSMA4 ;PSMD11 |
| COQ7 | CLK1 |
| PON2 | PON2 |
| GLUL | GLUL |
| PDXK | PDXK |
| PLA2G4A ;PLA2G2A | PLA2G4A ;PLA2G2A |
| PON2 ;ACP1 | PON2 ;ACP1 |
| FDFT1 | FDFT1 |
| UGP2 | UGP2 |
| VTI1A ;STX17 ;BET1 | VTI1A ;STX17 ;BET1 |
| MTMR1 | MTMR1 |
| HSD17B4 | DBP |
| HES1 ;PAX6 | HES1 ;PAX6 |
| RPL37A ;RPL9 | RPL37A ;RPL9 |
| PDE1C ;ADCY3 ;CAMK2D ;ARRB2 ;GN | PDE1C ;ADCY3 ;CAMK2D ;ARRB2 ;GNAL ;ADRBK2 ;PRKX ;CAMK2G ;CAMK2A ;C |

A3;LAMA3;COL5A3;PDGFRA;PDK1;COL11A2;COL6A1;COL1A2;ITGB8;ACTN1;ITGA2;FLNB;LAMA2;LAMA4;MYRPS6KA1;RPS6KA6;FGF18;FGFR2;CACNA2D1;NGF;STK3;FGF13;DUSP10;MAP3K1;MAP4K1;NTRK1;FLNB;MAP1A2;COL6A1;COL1A2;ITGB8;ITGA2;AGRN;LAMA2;LAMA4;LAMB2;LAMB2;COL11A1;CHAD;COL2A1;LAMC2;CO;SRGAP3;SRGAP3;SEMA4B;ROBO2;NFATC3;SEMA5A;SEMA6C;SEMA5B;PLXNB2;SEMA4F;EPHA2;MET;DPYSL2;FGF18;ITGB8;BDKRB2;FGFR2;LIMK2;GSN;ACTN1;FGF13;SCIN;ITGA2;MYH14;MYL5;FGF1;CYFIP2;MYH10;BDKRB2;PDE1C;ADCY3;ADCY3;CAMK2D;ITPR2;CACNA1A;CACNA1D;OXTR;ADCY2;GNAL;PRKX;SPHK1;GNAS;P2;SHISA5;RRM2B;ATM;CDK1;MDM4;CCND3;PTEN;CASP8;CDK2;TP73;APAF1;STEAP3;IGF1;FAS;IGFBP3;RF;ADCY3;ADCY3;POLD3;AMPD2;RRM2;PDE5A;ENTPD6;ADCY2;PKM;POLR3A;POLA1;NME6;GUCY1B3;RRM2B;P0FKL;PRKAR2B;SHC4;MAPK8;GYS1;PRKX;PKM;SOCS7;SORBS1;SREBF1;EXOC1;MKNK1;PIK3R1;AKT2;MTOR;IPFKL;ALDOC;GAPDH;GPI;ALDH1A3;PKM;ALDH3B1;ADH1C;LDHA;PGM2;ALDH7A1;ENO1;ADH5;GALM;ENO3;CAMK2D;FZD6;MAPK8;LRP5;DAAM2;LEF1;PRKX;NFATC2;PPP3CB;SFRP1;TCF7L2;ROCK2;WNT9B;NFATC1;MNLGN4X;HLA-DPA1;ITGB8;HLA-DRB3;HLA-F;CADM3;PTPRF;NEO1;ALCAM;CD4;HLA-G;CLDN1;CNTNAP1;VCA;TCF7L2;MSH6;PIK3R1;MSH2;AKT2;FZD3;FZD3;HGF;RAC1;AKT3;MSH3;TCF4;BRAF;PDGFRB;CASP3;TCF7;B1;CCNL1;WEE1;CCNB2;ORC2;PCNA;HDAC2;ORC4;ATM;CDK1;YWHAZ;CCND3;HDAC1;MCM2;MCM2;CDK2;MCM5;TNFRSF9;IL17RA;TNFRSF14;CXCL14;CXCL13;IL15RA;CXCL16;MET;IL21R;IL6ST;BMPR1B;IL1RAP;PRLR;STAT5B;PIK3R1;AKT2;MTOR;CAMK2G;HGF;NCK1;AKT3;MAP2K4;PLCG2;AR;CAMK2A;CAMK2B;HBEGF;BRAF;3L2;TCF7L2;PDGFA;PTEN;PIK3R1;AKT2;MTOR;HGF;FGFR1;CDK2;AKT3;AR;CREB3L3;TCF4;BRAF;IGF1;PDRC6;TCEB1;TRIP12;CUL4B;HUWE1;HERC1;RHOBTB2;WWP2;UBE2B;FBXO2;CUL4A;UBA7;DET1;WWP1;NEDD4;EN;PIK3R1;AKT2;MTOR;CAMK2G;HGF;AKT3;PLCG2;CAMK2A;CAMK2B;BRAF;IGF1;PDGFRB;INPP5B;DGKD;PLCD4;PTEN;PIK3R1;PLCD1;INPP5D;INPP5K;DGKH;INPP4B;PIP4K2B;PLCG2;INPP4A;PIPAM;MCCC2;PCCA;HADHB;HMGCL;OXCT1;ALDH7A1;HIBCH;MCEE;ACADM2C;ACTN1;PPP2R2A;MLLT4;MYH14;MYH14;MYL5;MYH10;ZAK;DLG4;CLDN1;PTEN;PRKCD;AKT2;JAM2;AKT3;2;LAMC2;TRAF1;PTEN;PIK3R1;RARB;AKT2;LAMA1;CDK2;APAF1;AKT3;LAMB1;TRAF2;CDKN2B;MAXA3;DGKD;LCLAT1;DGKH;GPAM;AR;ALDH7A1;FAP;LIPC6;C1S;FHL1;PLAU;CFI;F7;PC;F12;PROS1;C5;F13A1;PDGFA;PTEN;PIK3R1;AKT2;HGF;FGFR1;AKT3;BRAF;IGF1;PDGFRBADCY2;LEF1;PRKX;CREB3L2;GNAS;TCF7L2;WNT9B;CAMK2G;FZD3;FZD3;CREB3L3;CAMK2A;TCF4;CAMK2B;TK3R1;CASP8;AKT2;IL1R1;APAF1;AKT3;DFFB;TRAF2;EXOG;CFLAR;FAS;IRAK3;CASP31D;MAPK8;ADCY2;MAP2K3;PRKX;GNAS;PTK2B;PLA2G2A;MAPK13;PRKCD;CAMK2G;HGF;MAP2K4;CAMK2A;CAMPOLR3A;POLA1;NME6;RRM2B;POLE;POLA2;TK2;TK2;CDA;POLR2B;POLR2D;NT5C2;CTPS2A;CBS;TARS;SARDH;CHKBK3R1;AKT2;HGF;HGF;SLC2A1;RAC1;AKT3;BRAF;RAP1BMET;LEF1;SORBS1;TCF7L2;FGFR1;RAC1;TJP1;TCF4;ACP1;TCF7;TGFB2;RAC2RLR;STAT5B;CCND3;PIK3R1;IL12RB1;AKT2;LIFR;HGF;HGF;STAT4;AKT3;GHR;OSMR;EPOR;LIF;GH2;IL203;NAT6;LCLAT1;ADH1C;FAH;ADH5;MAOAN;PLCD1;INPP5K;INPP4B;PIP4K2B;PLCG2;INPP4A;PIP5K1C3;GDF5;SMAD1;COMP;PPP2CB;LTBP1;CDKN2B;THBS2;RBL1;RBL2;TGFB2FKL;ALDOC;AR;PFKFB2M2;GPX2;GSR;MGST1;ANPEPALNT13;GALNT7;GALNT7;GALNT3;GALNT9;GALNT1V420H1;PLOD3;EHMT1;EHMT2;PIPOX;ALDH7A1PPP3CB;PTK2B;HLA-G;NFATC1;PIK3R1;HGF;LCK;RAC1;PLCG2;BRAF;FAS;NCR1;CASP3;MICB;ULBP1;RAC2;MTOR;AKT3;BRAF;IGF1;RHEB;EIF4EPPP3CB;PLA2G2A;MAPK13;NFATC1;PIK3R1;AKT2;RAC1;AKT3;PLCG2;RAC2MAOA TCH1;FZD3;FZD3;SUFU;TCF4;TCF7D;AKT2;INPP5D;HGF;RAC1;AKT3;MAP2K4;PLCG2;PRKCE;RAC2RS;SLA;DARS2;TARS;MARSIA3;GNAS;GUCY1B3;PLA2G2A;CRHR1;PPP2CB;BRAF;IGF11;GBF1;LTA4H;PLA2G2A;CYP2C8;GPX2;PTGS1

F;PIK3R1;AKT2;RAC1;AKT3;BRAF;TGFBR2;RAC2
2;MCM2;RPA3;MCM5;RFC5
;PIK3R1;AKT2;INPP5D;HGF;RAC1;AKT3;PLCG2;RAC2
DAO;ALDH7A1;MAOA
A1G;PIK3R1;PRKCD;MTOR;PRKCE
;RAC1;MAP2K4;PLCG2;TJP1;HBEGF;CASP3;ATP6VOD1
H;MCEE;ACADM
PRPH;PRPH;APAF1;ALS2;CASP3

P8;AKT2;HGF;TIRAP;MAP3K8;RAC1;CD40;AKT3;MAP2K4;IKBKE
KX;PPP3CB;CAMK2G;CAMK2A;CAMK2B;PPP1CB;BRAF;RAP1B

CA3;ABCA13;TAP2
2;ENPP1
CLAT1;DGKH;GPAM;ETNK2;PTDSS2;CHKB
B;ALDH7A1;ADH5;ACADM
NFYC;TAPBP;RFX5;CD74;CD4;HLA-G;CTSL1;CIITA;TAP2

TK4;PLCG2;BRAF

C8;ADH1C;GSTA4;GSTM2;ADH5;MAOA;MGST1
C1;SNW1;KAT2B;NOTCH4
APK13;PIK3R1;CD99;JAM2;RAC1;RAPGEF4;PLCG2;CLDN4;RAP1B;RAC2;CXCL12

FS7;CACNA1D;GAPDH;ATP5A1;SDHC;PPP3CB;NDUFV3;MME;CASP8;APBB1;APAF1;APP;COX7A2L;MAPT;NDUF
PRKX;GNAS;GUCY1B3;CDK1;PDGFA;HGF;TJP1;PDGFRB

3R1;AKT2;HGF;AKT3;BRAF;TGFBR2
EC61A2;ATP6V1H;PLCG2;TJP1;ATP6VOD1
;RUNX1T1;BRAF;TCF7;PIM1
;HGF;ITGB3;CD1D;IL1R1;EPOR;ANPEP

CF4;BRAF;TCF7

5
CYP2C8;ADH1C;GSTA4;GSTM2;ADH5;MGST1
A-G;TSHR;CD40;FAS
;CD40;FAS
1;ALDH7A1

R1;THRB;PRLR;TSHR;CRHR1;GRM7;GABBR1;HRH1;NR3C1;PTGER3;GHR;PTH1R;P2RX6;ADRA1A;ADRA1A;GH2

ALDH7A1

;HGF;FAS

HLA-G;FAS

1;PIK3R1;AKT2;HGF;LCK;MAP3K8;NCK1;AKT3
;TRAF2;PRKAG2;LEP

P2;ACADM

CAIP;NDUFV3;UBA7;APAF1;COX7A2L;NDUFB2;UCHL1;CASP3

HC;NDUFV3;ATP6V1H;COX7A2L;NDUFB2;ATP6V0D1

40;H2AFZ;C5

CAMK2B;OR11A1

IL5; LAMB2; LAMB2; SHC4; MAPK8; MET; COL11A1; CHAD; COL2A1; LAMC2; PARVB; COL1A1; TNXB; ITGA1; PGF; RO
3K6; MAPKAPK3; NF1; CACNA1A; MAP2K5; CACNA1D; FGF1; MAP3K11; MAPK8; MAP2K3; PTPRQ; ARRB2; PRKX; MAP
L1A1; TNXB; ITGA1; ITGA10; TNC; THBS3; TNR; COL5A2; LAMA1; ITGB3; COMP; LAMB1; ITGA9; IBSP; ITGA7; TH
NFATC2; PPP3CB; SEMA3A; SEMA3B; SEMA6A; ROCK2; EPHA4; NFATC1; EFNA5; PLXNB1; RAC1; NCK1; PLXNB3; SE
SSH3; SSH1; ITGA1; IQGAP3; ROCK2; ITGA10; PDGFA; FGFR3; PIK3R1; TIAM1; ARHGEF1; HGF; FGFR1; ITGB3; R
PP3CB; PTK2B; CACNA1B; CACNA1G; ATP2B4; TNC; PLCD4; TRPC1; HRH1; PLCD1; CAMK2G; PDE1B; PTGER3; PLCG
FWD2; CASP3; PIDD
LE; POLA2; PDE4A; PAPSS2; HPRT1; PDE1B; PPAT; PDE3A; AK2; POLR2B; POLR2D; GART; NT5C2; ENPP1; ENTPD4
INPP5D; INPP5K; HGF; PRKAB1; AKT3; PDE3A; PRKAG2; PHKA2; PPP1CB; BRAF; FAS; RHEB; EIF4E

MP7; CCND3; DAAM1; CAMK2G; FZD3; FZD3; RAC1; CAMK2A; TCF4; DKK1; CAMK2B; PPP2CB; TCF7; RAC2; PRICKLE
N; NLGN1; CD99; JAM2; GLG1; CD40; NRXN3; NCAM1; ITGA9; CDH2; CLDN4; NRXN2
TGFB2; RAC2
5; DBF4; CDKN2B; CDC6; ESPL1; RBL1; CDC16; RBL2
; CCL28; PDGFA; CX3CL1; GDF5; IL12RB1; TNFSF13B; LIFR; FLT3LG; HGF; HGF; IL1R1; CD40; GHR; FLT4; OSMR
ABL2
GFRB; TCF7
UBA6; UBE2Q2; UBE2F; EPM2A; RFWD2; UBE3C; KLHL9; CDC16

5K1C

CASK; TJP1; EXOC4; PPP2CB; CLDN4; PRKCE; MYH7B

CF7

IK2B; HBEGF

ORB; PIM1; LEP

2

β2; FAS; CASP3

; TRPV1; PTGER2; LEP; LPAR4; EDNRA

CK2; ITGA10; TNC; THBS3; PDGFA; CCND3; PTEN; PIK3R1; TLN1; AKT2; TNR; FLNA; HGF; HGF; COL5A2; LAMA1; IT3K13; NFATC2; CACNA2D3; PPP3CB; MAP4K2; CACNA1B; PLA2G2A; ZAK; CACNA1G; MAPK13; PDGFA; MKNK1; FGFR3BS2; ITGB5
MA4A; EPHB6; ABLIM3; EPHB2; SEMA3C; UNC5B; NOV; EFNA1; RAC2; CXCL12
AC1; ITGAE; ARHGEF7; PIP4K2B; ITGA9; DOCK1; ITGA7; PIP5K1C; PPP1CB; BRAF; PDGFRB; ITGB5; ARPC4; RAC22; P2RX6; CAMK2A; PHKA2; CAMK2B; ADRA1A; ADRA1A; PDGFRB; EDNRA

1

; EPOR; LIF; GH2; FAS; PDGFRB; IL20RB; TNFSF9; LEP; TGFB2; PF4V1; CXCL12

ITGB3;RAC1;AKT3;TLN2;COMP;LAMB1;FLT4;ITGA9;IBSP;DOCK1;ITGA7;PIP5K1C;PPP1CB;BRAF;IGF1;CAV
3;MAP4K4;DDIT3;AKT2;RAPGEF2;FLNA;HGF;FGFR1;BDNF;MAP3K8;RAC1;IL1R1;NFKB2;AKT3;NR4A1;STK4

2

1;PDGFRB;RAP1B;THBS2;ITGB5;RAC2

;MAP2K4;MAPK8IP2;TRAF2;MAPT;BRAF;ATF2;FAS;PDGFRB;CASP3;RAP1B;TGFB2;RAC2;MAX

