

logFC	logCPM	PValue	FDR		
CKM	-8.29264	5.273382	0	0	
ACTA1	-6.96675	6.353376	0	0	
MYLPF	-6.92134	2.435437	0	0	
PYGM	-6.90155	3.914164	0	0	
SLN	-6.43701	1.785647	0	0	
ACTN3	-6.31807	0.92959	0	0	
TNNC2	-6.30904	2.991272	0	0	
KLHL41	-6.26466	3.118321	0	0	
ATP2A1	-6.11397	3.86939	0	0	
TNNC1	-6.10456	2.903016	0	0	
NEB	-6.03075	5.094682	0	0	
MYL3	-6.02176	1.628154	0	0	
APOBEC2	-5.97843	0.324523	0	0	
GLYAT	-5.92594	1.564602	0	0	
MYOT	-5.83551	2.094698	0	0	
LDB3	-5.4826	3.260799	0	0	
TNNI1	-5.39937	3.538512	0	0	
UNC45B	-5.31542	-0.18535	0	0	
ACVR1C	-5.22633	3.327873	0	0	
KCNIP2	-5.14929	4.116978	0	0	
HSPB7	-5.09124	4.100154	0	0	
HSD17B13	-5.0893	0.292241	0	0	
LVRN	-5.08428	1.421459	0	0	
FHL1	-5.01143	7.303103	0	0	
LYVE1	-4.95768	3.748422	0	0	
HBB	-4.927	4.978727	0	0	
TTN	-4.91579	5.824285	0	0	
VEGFD	-4.90328	2.090695	0	0	
LPL	-4.73084	7.179904	0	0	
KLB	-4.72593	2.694575	0	0	
MYOM1	-4.68206	3.29545	0	0	
SLC2A4	-4.64666	2.412824	0	0	
HSPB6	-4.55668	5.048999	0	0	
LIPE	-4.55446	5.994093	0	0	
GPAM	-4.44799	6.409273	0	0	
ENO3	-4.38514	3.913535	0	0	
SRL	-4.32722	1.406819	0	0	
RDH5	-4.28571	1.418448	0	0	
GYG2	-4.14051	5.309035	0	0	
ITIH5	-4.02178	5.718658	0	0	
BTNL9	-4.01698	4.147738	0	0	
AOC3	-3.98297	6.39869	0	0	
CLEC3B	-3.90983	3.953569	0	0	
CRHBP	-3.89055	0.182944	0	0	
KLHL31	-3.84471	2.305035	0	0	
ACSM5	-3.75842	1.940194	0	0	
SORBS1	-3.68167	6.858699	0	0	
ACACB	-3.66749	6.031407	0	0	
ITGA7	-3.66638	4.966533	0	0	
NPR1	-3.61398	4.374327	0	0	
CAV1	-3.399	7.238304	0	0	
TNS1	-3.11441	8.058378	0	0	
NIPSNAP3	-2.89355	1.601564	0	0	
GSN	-2.54445	9.357328	0	0	
SIK2	-2.46193	6.050483	0	0	
SYPL2	-3.58721	0.862377	1.5612474	5.05957805936645e-319	
EBF1	-3.07757	4.342476	2.9248686	9.31234691907415e-319	

LRRC2	-3.85999	0.708608	1.7239264	5.39410644476538e-315
PDE2A	-3.13658	3.906538	3.3102348	1.01820580864332e-314
CA3	-5.84291	4.49014	1.2728649	3.84999206533959e-313
MMD	-2.85065	4.953927	1.8745913	5.57706299667825e-311
CAV2	-2.92006	5.585064	8.8119426	0.00E+00
PPP1R27	-5.76733	-0.57765	1.2346719	0.00E+00
SLC16A7	-3.39294	3.742096	4.2252307	0.00E+00
ABCD2	-4.12773	1.93561	6.9650956	0.00E+00
SYNE3	-3.01996	4.566968	9.4202994	#####
PPARG	-3.39719	4.18343	#####	#####
PAMR1	-3.52175	3.681182	#####	#####
MYH2	-8.51809	5.746636	#####	#####
CFL2	-2.23127	4.522745	#####	#####
TNXB	-4.06591	5.445467	#####	#####
NAALAD2	-2.90813	0.979232	#####	#####
SPTBN1	-2.04978	8.631373	#####	#####
ASPA	-3.59187	1.439144	#####	#####
CKMT2	-3.5643	1.816563	#####	#####
CAVIN2	-3.9579	4.539062	#####	#####
ARHGAP2	-3.09862	2.185599	#####	#####
PALMD	-2.9028	5.41281	#####	#####
FAM13A	-2.4625	4.82013	#####	#####
AC009779	-2.33607	0.429698	#####	#####
PLIN1	-5.32086	7.139141	#####	#####
ALDH1L1	-4.74184	3.232861	#####	#####
FZD4	-2.68525	6.177037	#####	#####
PDE3B	-3.80608	3.996462	#####	#####
GPD1	-5.30327	6.474028	#####	#####
GPX3	-3.69172	7.272092	#####	#####
AQP7	-5.1511	4.082039	#####	#####
CAT	-2.03756	6.79802	#####	#####
PLIN4	-5.18963	8.004756	#####	#####
ABRA	-6.70048	-0.63482	#####	#####
MTURN	-2.56206	5.967707	#####	#####
MYOZ1	-4.76587	2.652	#####	#####
KIAA0408	-4.46593	-2.13245	#####	#####
SLC19A3	-5.03166	4.246849	#####	#####
FBP2	-5.10299	-0.36049	#####	#####
GPR146	-2.78441	0.923874	#####	#####
IGFBP6	-3.23096	4.238581	#####	#####
ADAMTS5	-3.06854	4.624121	#####	#####
ASB11	-6.20882	-1.86008	#####	#####
LMOD3	-5.09773	0.918342	#####	#####
CCDC69	-2.97275	5.227211	#####	#####
TMEM37	-3.0169	4.110934	#####	#####
ACO1	-2.04273	6.006435	#####	#####
GPBAR1	-2.98077	0.199088	#####	#####
SVEP1	-3.28831	5.552851	#####	#####
KLHL33	-3.96048	-2.07472	#####	#####
LEP	-6.16636	5.340109	#####	#####
AL845331	-5.28271	-1.32219	#####	#####
TNNI2	-4.89864	2.836221	#####	#####
MYBPC2	-5.67967	2.025164	#####	#####
SCARA5	-5.09029	3.855394	#####	#####
CHRD1	-4.45395	5.632221	#####	#####
ABCA9	-3.62374	3.418259	#####	#####
FRMD1	-4.36367	-0.2159	#####	#####
MYZAP	-3.23819	2.355287	#####	#####

PFKFB1	-3.58206	1.629817	#####	#####
FXYD1	-3.58819	0.321245	#####	#####
HCAR2	-3.44426	1.769473	#####	#####
PPP1R12B	-2.08593	6.03991	#####	#####
DMGDH	-2.7859	1.146383	#####	#####
LEPR	-2.97084	4.303464	#####	#####
SH3D19	-2.01741	6.288611	#####	#####
NRAP	-7.2384	3.356926	#####	#####
RBP4	-4.88665	4.984937	#####	#####
EPB42	-3.59039	-0.91416	#####	#####
CD300LG	-5.02318	3.449109	#####	#####
OXTR	-4.08799	5.144787	#####	#####
TRDN	-6.18907	2.250765	#####	#####
ANGPT4	-3.48076	-0.25243	#####	#####
MYOZ2	-4.74416	-0.53176	#####	#####
HEPACAM	-5.25688	0.227561	#####	#####
MYLK2	-4.29401	0.435448	#####	#####
ADRA1A	-4.47106	-0.1916	#####	#####
HBA2	-4.43957	2.442947	#####	#####
DDR2	-2.68473	6.290972	#####	#####
CASQ1	-4.68383	2.65164	#####	#####
SPX	-5.21682	2.341088	#####	#####
NMUR1	-3.47908	0.354117	#####	#####
CD36	-4.194	7.853992	#####	#####
TIMP4	-4.52677	3.818735	#####	#####
PCOLCE2	-4.61691	4.170785	#####	#####
MAP1LC3b	-3.74648	0.174804	#####	#####
MOCS1	-2.16902	4.350647	#####	#####
G0S2	-4.07787	5.084196	#####	#####
DPT	-3.52782	6.255819	#####	#####
ADH1A	-4.78256	-1.49328	#####	#####
1-Mar	-2.7499	4.796213	#####	#####
CD34	-2.12989	6.511166	#####	#####
ANKRD53	-2.7061	0.254981	#####	#####
PLXNA4	-3.33854	4.263839	#####	#####
CDO1	-3.64702	3.197063	#####	#####
C1QTNF9	-3.66062	-1.37099	#####	#####
TCAP	-4.6912	2.982664	#####	#####
LRRN4CL	-3.3506	2.090731	#####	#####
CCDC3	-2.82907	4.961982	#####	#####
DHRS7C	-7.39692	-2.45136	#####	#####
SCN4A	-3.58864	2.12768	#####	#####
COX6A2	-6.21938	0.29707	#####	#####
SLC7A10	-4.73566	1.655951	#####	#####
ABCA8	-3.89932	4.200473	#####	#####
ACTN2	-5.89945	4.165084	#####	#####
NKAPL	-2.70811	-0.82059	#####	#####
GHR	-3.14365	5.04317	#####	#####
ACSL1	-2.80645	7.498061	#####	#####
PDK4	-3.5932	6.693748	#####	#####
BHMT2	-3.17446	2.701018	#####	#####
MCAM	-2.19052	7.251599	#####	#####
KLF15	-3.38493	2.040104	#####	#####
ALPK3	-2.52858	3.693684	#####	#####
SLC17A7	-3.00117	0.489982	#####	#####
SEMA3G	-2.85824	5.308773	#####	#####
GPIHBP1	-3.52489	2.836677	#####	#####
LDB2	-2.15146	4.313403	#####	#####

TNNT3	-5.17826	3.389845	#####	#####
FABP4	-4.91056	7.748034	#####	#####
CIDEC	-5.3037	5.247476	#####	#####
GALNT15	-3.21662	4.321055	#####	#####
CA4	-5.28839	1.515253	#####	#####
GYS2	-4.82652	-1.16601	#####	#####
EBF3	-2.75808	2.753872	#####	#####
DEFB132	-4.89468	1.088262	#####	#####
AMPD1	-4.46353	0.739916	#####	#####
LMOD1	-2.65695	5.212206	#####	#####
ABCA10	-3.35975	2.0202	#####	#####
TMEM132	-4.72178	2.909377	#####	#####
MYOM3	-3.09896	1.500058	#####	#####
MYMX	-3.47236	-0.2326	#####	#####
LGALS12	-4.52649	3.09919	#####	#####
GNG11	-2.1799	5.060474	#####	#####
ATP1A2	-4.48486	3.930013	#####	#####
MYL2	-7.96627	4.105565	#####	#####
GNAI1	-2.49946	4.309595	#####	#####
ATOH8	-3.29393	2.285698	#####	#####
ADRB2	-2.8303	2.131224	#####	#####
KCNA7	-4.57434	-2.07002	#####	#####
DGAT2	-3.34777	6.069077	#####	#####
TMEM220	-2.24759	2.186499	#####	#####
CAPN3	-2.95958	0.293541	#####	#####
CPED1	-2.90501	4.292398	#####	#####
TGFBR2	-2.22227	7.180448	#####	#####
CLMP	-2.43414	5.519747	#####	#####
ADH1B	-5.12401	7.39509	#####	#####
CAV3	-4.9216	-1.77378	#####	#####
LRRRC39	-2.57499	0.531048	#####	#####
SPRY2	-2.44215	4.157756	#####	#####
AKAP12	-2.70179	5.751575	#####	#####
ECM2	-2.61969	5.115434	#####	#####
CES1	-3.79998	4.715325	#####	#####
PLAC9	-3.10797	3.132843	#####	#####
ANGPTL5	-4.10609	-1.49167	#####	#####
PDZD2	-2.64766	5.217502	#####	#####
SGK2	-3.16779	1.42508	#####	#####
CNN1	-3.14448	5.282399	#####	#####
DST	-2.38545	8.140735	#####	#####
MLXIPL	-3.53651	2.572335	#####	#####
DIPK2B	-2.05792	4.732259	#####	#####
MME	-3.28955	5.827078	#####	#####
KLF4	-2.57422	5.459263	#####	#####
LIFR	-2.55361	5.741691	#####	#####
DMD	-3.01094	4.831342	#####	#####
FAM180B	-4.01461	-0.72159	#####	#####
FLNC	-3.05387	4.591692	#####	#####
CASQ2	-3.38689	1.798332	#####	#####
DOCK11	-2.35704	4.78684	#####	#####
HHATL	-5.10988	-0.66221	#####	#####
ADIPOQ	-5.22378	6.981312	#####	#####
NNAT	-3.55857	1.985614	#####	#####
LMOD2	-6.74812	1.836692	#####	#####
HJV	-6.29403	-0.70621	#####	#####
MRAP	-4.4893	0.418657	#####	#####
LHFPL6	-2.04542	5.579343	#####	#####

MAMDC2	-3.04035	3.327565	#####	#####
STARD9	-2.16434	3.571997	#####	#####
PLSCR4	-2.11496	4.761881	#####	#####
TXNIP	-2.05119	9.553819	#####	#####
TYRO3	-2.17603	3.998292	#####	#####
CACNA1S	-6.74607	0.879999	#####	#####
TRIM63	-4.07612	-0.478	#####	#####
IDI2	-5.19492	-2.98788	#####	#####
ENPP2	-2.73708	5.640273	#####	#####
C14orf18C	-5.13998	1.717686	#####	#####
PKHD1L1	-3.67731	0.276372	#####	#####
ANGPTL8	-3.89917	-0.813	#####	#####
DTX1	-2.47037	3.056239	#####	#####
CORO2B	-2.35834	2.354428	#####	#####
PRRT4	-3.64425	0.866319	#####	#####
ANXA1	-2.36268	7.710027	#####	#####
SRPX	-2.5188	4.594293	#####	#####
CIDEA	-4.96566	3.419771	#####	#####
TRARG1	-5.08337	5.184787	#####	#####
F10	-2.55979	1.631546	#####	#####
LGI4	-2.39828	2.025687	#####	#####
PPP1R1A	-3.89765	4.764992	#####	#####
FBXO40	-5.93955	-0.54649	#####	#####
GNG2	-2.07984	4.537511	#####	#####
SLIT3	-2.41843	6.218738	#####	#####
SHE	-2.14321	3.50681	#####	#####
FITM1	-2.9423	-0.69196	#####	#####
COL10A1	7.125391	7.234902	#####	#####
MMP11	6.248106	8.228427	#####	#####
PCK1	-4.93779	3.50193	#####	#####
GPLD1	-2.69005	1.026605	#####	#####
CDH20	-3.29936	-1.05311	#####	#####
CPA1	-4.16846	-1.41924	#####	#####
ANGPTL1	-3.07946	2.574261	#####	#####
XIRP1	-4.40359	2.736588	#####	#####
VWF	-2.09114	7.890198	#####	#####
NEK2	4.237138	4.681873	#####	#####
SCN4B	-2.56439	3.690576	#####	#####
GOLGA8M	-2.84948	-2.60363	#####	#####
DWORF	-7.6263	-0.41066	#####	#####
ABCA6	-2.68249	3.311497	#####	#####
NAT8L	-3.22136	4.195945	#####	#####
TRHDE	-4.03389	0.20402	#####	#####
GIPC2	-2.65743	1.472673	#####	#####
MYH11	-3.20422	7.024347	#####	#####
TBX15	-2.28022	3.235963	#####	#####
CEBPA	-2.22966	4.502922	#####	#####
SLC35G2	-2.02847	2.038432	#####	#####
CABP1	-2.24608	-0.36438	#####	#####
PRKAR2B	-2.49014	6.34686	#####	#####
ABCC9	-2.35376	4.069327	#####	#####
ALDH2	-2.30041	7.023022	#####	#####
JAM2	-2.07276	4.458748	#####	#####
SMTNL1	-3.3198	0.200351	#####	#####
TMEM246	-2.24612	1.788306	#####	#####
YIPF7	-3.70508	-3.07826	#####	#####
KLHL29	-2.49091	2.820449	#####	#####
LILRB5	-2.81172	2.429502	#####	#####

LIMS2	-2.00727	4.609801	#####	#####
ALDH1A1	-2.55036	5.148776	#####	#####
COL6A6	-3.22273	2.370419	#####	#####
MUSTN1	-3.48683	-2.92151	#####	#####
RBMS3	-2.18003	4.358091	#####	#####
CCL14	-3.33037	1.763644	#####	#####
HIF3A	-3.72822	1.412413	#####	#####
MRAS	-2.23456	5.647824	#####	#####
ANKRD2	-3.4834	-0.66463	#####	#####
ATP1B4	-5.79033	-2.32351	#####	#####
MAOA	-3.31198	5.627076	#####	#####
FAM228A	-2.69343	-1.87601	#####	#####
KLHL40	-7.08097	-1.11684	#####	#####
FMO2	-3.24564	5.217618	#####	#####
PDLIM3	-2.42019	5.658951	#####	#####
INSYN2B	-3.81699	0.709227	#####	#####
MMRN1	-3.34196	3.53528	#####	#####
DENND2A	-2.19066	2.738607	#####	#####
PID1	-2.4868	3.02715	#####	#####
TSLP	-3.25226	-0.14292	#####	#####
BMX	-2.70978	0.983574	#####	#####
MASP1	-3.59409	0.59082	#####	#####
PEAR1	-2.0371	3.313643	#####	#####
MYH7	-7.78369	5.548556	#####	#####
SMYD1	-4.90974	2.080881	#####	#####
DES	-4.79746	4.862162	#####	#####
STX11	-2.1696	2.293035	#####	#####
MB	-3.08297	5.674489	#####	#####
CXCL2	-3.42758	2.35531	#####	#####
CAVIN4	-2.96799	0.069344	#####	#####
ANK2	-2.3516	4.319866	#####	#####
TSPAN7	-2.49727	3.89599	#####	#####
ANGPT1	-2.79303	2.907131	#####	#####
PALM2-AI	-2.81984	-0.11888	#####	#####
PREX2	-2.32712	3.715593	#####	#####
SAMD5	-2.98383	3.14128	#####	#####
FREM1	-2.94862	2.655231	#####	#####
CCDC178	-3.01042	-0.03492	#####	#####
GNAL	-2.07702	2.950403	#####	#####
FHL5	-2.6278	1.390696	#####	#####
MGLL	-2.23574	6.847932	#####	#####
KIF4A	3.829014	4.769257	#####	#####
MLIP	-3.5969	-0.16364	#####	#####
PKMYT1	3.982971	4.279721	#####	#####
SCTR	-3.02835	-2.02747	#####	#####
EBF2	-2.2839	2.445026	#####	#####
MAB21L1	-2.71167	1.028935	#####	#####
KL	-2.48771	1.550373	#####	#####
SYNPO2	-2.53937	6.228127	#####	#####
CACHD1	-2.115	4.296045	#####	#####
MICU3	-2.23202	1.360882	#####	#####
S1PR1	-2.04035	4.959126	#####	#####
SPTB	-2.65119	1.607433	#####	#####
HSPB2	-2.5336	0.66341	#####	#####
AKR1C1	-3.50025	4.259673	#####	#####
PQLC2L	-2.90929	0.895188	#####	#####
FAM13C	-2.2525	1.695342	#####	#####
HRC	-2.7056	1.092236	#####	#####

MYLK	-2.21122	7.420981	#####	#####
PCLAF	3.303339	4.260226	#####	#####
FAM149A	-2.13947	2.096145	#####	#####
ALDH1A2	-2.81953	2.172656	#####	#####
SGCA	-3.08926	0.245291	#####	#####
CLIC5	-2.4232	3.287846	#####	#####
AQP1	-2.11096	7.426105	#####	#####
ITPRIPL1	-2.37345	1.724	#####	#####
CDKN1C	-2.11042	4.189124	#####	#####
AVPR2	-2.76824	0.710647	#####	#####
KY	-3.31724	-0.53241	#####	#####
SPC25	2.802997	2.873493	#####	#####
FSD2	-3.6898	-1.21344	#####	#####
ASB5	-6.09864	-0.48316	#####	#####
SYNM	-3.09795	6.704435	#####	#####
SOX17	-2.19685	2.252001	#####	#####
ABCB5	-3.57649	0.051401	#####	#####
IL17D	-2.00759	0.894503	#####	#####
HSD17B6	2.996046	2.422781	#####	#####
HLF	-2.8587	3.766447	#####	#####
ASF1B	3.05122	4.744233	#####	#####
COX7A1	-2.49599	3.403035	#####	#####
CETP	-2.25358	1.138509	#####	#####
PRRG3	-2.97114	0.89104	#####	#####
HAS3	-2.91342	3.4225	#####	#####
PRG4	-3.55883	3.672924	#####	#####
STAB2	-2.90982	0.394313	#####	#####
EDNRB	-2.1725	3.897392	#####	#####
FAM89A	-2.50793	3.250441	#####	#####
FAM162B	-2.15164	-0.11394	#####	#####
TCEAL7	-2.15515	1.260868	#####	#####
RNF150	-2.64161	4.266137	#####	#####
TMEM255	-2.24852	1.908699	#####	#####
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CDC25C	3.375912	2.589479	#####	#####
NRN1	-2.25603	4.190616	#####	#####
GPRASP1	-2.03951	3.183797	#####	#####
ALAS2	-3.27325	-2.35778	#####	#####
SLC29A4	-2.53771	3.502501	#####	#####
IQGAP3	3.691798	5.292485	#####	#####
SLC22A12	-4.84936	-2.97145	#####	#####
DEPP1	-2.24439	6.714769	#####	#####
FOSB	-3.41546	6.927168	#####	#####
KIT	-2.97063	5.9787	#####	#####
FGF1	-2.08643	4.217781	#####	#####
HBA1	-4.06144	-2.3699	#####	#####
TMEM100	-3.26774	2.252493	#####	#####
MEOX2	-2.74516	2.855392	#####	#####
APOLD1	-2.07059	5.490704	#####	#####
TSHZ2	-2.39415	4.615388	#####	#####
UBE2T	3.209592	4.538172	#####	#####
UHRF1	3.339873	4.436335	#####	#####
NUSAP1	3.043835	5.484831	#####	#####
TMEM252	-3.17608	-2.3615	#####	#####
VGLL2	-5.57617	-2.33476	#####	#####
TPX2	3.559769	6.280784	#####	#####
ADAM33	-2.71064	2.924345	#####	#####
CHL1	-2.96504	3.891112	#####	#####

WASF3	-2.18018	3.835837	#####	#####
APCDD1	-2.16822	4.886546	#####	#####
DMRT2	-2.82392	0.364092	#####	#####
FFAR4	-2.04483	0.986278	#####	#####
ADCYAP1	-2.66195	1.863035	#####	#####
B3GALT1	-3.14589	-0.452	#####	#####
PDE1C	-2.77921	2.740609	#####	#####
TNMD	-3.95328	1.263694	#####	#####
INMT	-2.5214	2.587207	#####	#####
CAMK2A	-2.86561	0.076094	#####	#####
CMYA5	-2.63589	5.737895	#####	#####
ADGRD1	-2.55873	2.357217	#####	#####
SEL1L2	-3.62294	-2.46248	#####	#####
SMCO1	-4.9112	-1.51207	#####	#####
NDRG2	-2.20614	6.917361	#####	#####
HJURP	3.513278	3.930626	#####	#####
PGM5	-2.53462	3.488326	#####	#####
CFD	-3.08652	5.822135	#####	#####
NUF2	3.759874	4.128511	#####	#####
MATN2	-2.54313	5.665412	#####	#####
TMOD1	-2.78179	1.947726	#####	#####
PER1	-2.06514	5.708628	#####	#####
CD209	-2.64087	2.59281	#####	#####
CDK1	3.140693	5.514016	#####	#####
CLDN5	-2.57763	4.02517	#####	#####
TRPM3	-2.72883	-1.31831	#####	#####
APOB	-4.32887	1.290748	#####	#####
ESR2	-2.06761	-0.21211	#####	#####
SFTPB	-4.50679	1.189287	#####	#####
HOXA4	-2.30205	0.296278	#####	#####
CCNB1	2.558088	5.680937	#####	#####
SLC22A3	-2.85733	1.62272	#####	#####
DTL	3.040552	4.916739	#####	#####
PAFAH1B:	2.476745	5.948891	#####	#####
UBE2C	4.171811	5.290706	#####	#####
RYR1	-3.03111	3.863924	#####	#####
NT5C1A	-3.99189	-3.39819	#####	#####
TWIST2	-2.29938	2.512392	#####	#####
CKAP2L	3.325133	3.604713	#####	#####
RXRG	-3.01274	-0.57279	#####	#####
PLPP4	4.987951	3.006473	#####	#####
CPM	-2.0778	5.394567	#####	#####
KCNMB1	-2.42696	3.43322	#####	#####
TROAP	3.556464	3.847732	#####	#####
CKS2	2.640677	5.045703	#####	#####
MEDAG	-2.39256	3.606128	#####	#####
LRR38	-3.66472	-2.85788	#####	#####
POC1A	2.10095	3.658934	#####	#####
AOC2	-2.28243	0.563157	#####	#####
NR3C2	-2.15776	3.367776	#####	#####
MYH1	-4.00021	1.46723	#####	#####
LRR370	-2.04838	-0.28016	#####	#####
ZWINT	2.574227	5.385282	#####	#####
SLC25A34	-2.02516	0.342656	#####	#####
DUPD1	-4.47845	-3.4515	#####	#####
ANGPTL7	-4.13027	0.513818	#####	#####
HMMR	3.032172	3.918326	#####	#####
ZFP36	-2.21469	7.714901	#####	#####

PLK1	3.408003	4.9238	#####	#####
BUB1	3.283432	4.747064	#####	#####
KIF20A	3.367062	4.881011	#####	#####
CENPF	3.256319	6.835029	#####	#####
SPC24	3.137741	3.50143	#####	#####
CEP55	3.417098	4.559112	#####	#####
ADH4	-3.72199	-1.66629	#####	#####
DNASE1L3	-2.76015	1.004835	#####	#####
IGF1	-2.50572	2.095192	#####	#####
CDKN3	2.89437	3.348373	#####	#####
TEDC2	2.826684	2.925934	#####	#####
RSPO3	-2.45191	2.527058	#####	#####
P2RY12	-2.54091	0.973712	#####	#####
CCDC141	-2.58012	-0.23101	#####	#####
KIFC1	3.145346	5.13584	#####	#####
ADAMTS1	-2.24111	6.213319	#####	#####
PBK	3.445974	3.852991	#####	#####
XPNPEP2	-2.83301	0.936632	#####	#####
C8orf88	-2.09064	-0.14371	#####	#####
FGF2	-2.73765	4.047533	#####	#####
INHBA	3.404352	6.286295	#####	#####
ITM2A	-2.25128	4.91082	#####	#####
GLP2R	-3.45086	-0.6157	#####	#####
PI16	-3.694	4.297964	#####	#####
ERICH4	-2.71143	-3.55081	#####	#####
COL11A1	6.179655	7.718607	#####	#####
RPL3L	-3.69957	0.856876	#####	#####
CCDC36	-2.01223	-0.09392	#####	#####
SLC36A2	-4.07046	-2.27843	#####	#####
BUB1B	2.946698	4.328321	#####	#####
DLGAP5	3.290165	4.153816	#####	#####
PTTG1	3.197336	4.572415	#####	#####
NEIL3	3.384476	1.819944	#####	#####
MYADML2	-2.80516	-1.70955	#####	#####
PYCR1	2.354376	6.683581	#####	#####
AURKA	3.104751	4.676462	#####	#####
IGSF10	-2.88842	3.294807	#####	#####
SCN9A	-2.29327	0.640857	#####	#####
ISM1	-2.19719	3.893774	#####	#####
BICDL1	2.730306	4.605394	#####	#####
SYN2	-2.78437	2.100549	#####	#####
ADH1C	-3.44909	1.707286	#####	#####
SMPX	-5.32249	-0.37907	#####	#####
MELK	3.620989	4.373061	#####	#####
KIF18B	3.555642	3.595065	#####	#####
KLHL13	-2.61788	3.666951	#####	#####
WISP1	3.532437	4.329334	#####	#####
AKAP6	-2.17392	2.41082	#####	#####
CAPN11	-2.35772	1.052535	#####	#####
CREB5	-2.06831	3.220545	#####	#####
C10orf71	-7.32146	0.624093	#####	#####
CLDN11	-2.43478	3.592851	#####	#####
PAK3	-2.56675	2.100545	#####	#####
RHOXF1	-2.57058	-2.12796	#####	#####
LMNB1	2.442525	5.946681	#####	#####
RBP7	-2.22498	3.960167	#####	#####
RRM2	3.398477	5.774084	#####	#####
KIF11	2.504218	5.296181	#####	#####

CSRNP3	-2.36065	2.171807	#####	#####
HCAR3	-2.21517	-1.00485	#####	#####
XIRP2	-7.1469	3.654136	#####	#####
LRR3B	-3.53017	-1.57655	#####	#####
KIF2C	3.312096	4.795653	#####	#####
NUAK2	2.244826	3.505458	#####	#####
HSPB2-C1	-2.96398	-4.19141	#####	#####
KIF23	2.622627	4.806536	#####	#####
EXO1	3.427688	3.843845	#####	#####
PAQR4	2.571342	5.099606	#####	#####
CDCA8	3.013989	4.524333	#####	#####
SGO1	3.251389	2.639687	#####	#####
ERCC6L	2.837807	2.812064	#####	#####
MFAP4	-2.48743	6.329252	#####	#####
RYR3	-2.30613	1.580358	#####	#####
PDE11A	-2.47001	1.805857	#####	#####
CSRP3	-7.10541	1.756864	#####	#####
GABRD	3.214489	1.928326	#####	#####
PLN	-2.39982	2.663352	#####	1.09E-99
ASPM	3.520953	5.019892	#####	3.11E-99
HOXA5	-2.37852	2.21911	#####	3.25E-99
NDC80	3.188414	4.001114	#####	6.94E-99
TK1	3.071576	6.075287	#####	6.97E-99
KNL1	2.819056	3.877682	#####	7.24E-99
SKA3	3.067062	3.36388	#####	1.22E-98
NCAPG	3.052246	4.246898	#####	2.21E-98
ODF3L1	-2.2881	-1.15275	1.27E-99	3.32E-98
SCN3A	-2.83505	0.757548	1.33E-99	3.48E-98
SKA1	3.35786	3.049701	1.44E-99	3.74E-98
USP44	-2.27505	-0.47251	1.59E-99	4.13E-98
TACC3	2.328471	5.566559	1.65E-99	4.30E-98
TGFBR3	-2.46509	6.269243	2.25E-99	5.83E-98
IL33	-2.71843	4.266532	2.32E-99	6.01E-98
C4orf54	-4.76967	-0.31197	3.14E-99	8.12E-98
CDCA5	3.083353	4.827761	7.47E-99	1.93E-97
GPRIN1	2.873805	3.347906	8.11E-99	2.09E-97
CCNB2	3.031711	4.617282	9.81E-99	2.52E-97
RAD51	2.571449	3.304819	1.23E-98	3.16E-97
PRC1	2.638317	5.79364	1.99E-98	5.09E-97
FOS	-2.57267	8.515306	2.49E-98	6.34E-97
VIT	-2.81695	2.604766	3.87E-98	9.83E-97
CX3CL1	-2.38728	6.636777	5.44E-98	1.38E-96
EGR2	-2.20073	4.8762	5.60E-98	1.42E-96
GTSE1	3.029573	3.661537	8.89E-98	2.24E-96
GINS1	2.483111	4.275875	1.09E-97	2.75E-96
AKR1C3	-2.37848	4.683719	1.20E-97	3.02E-96
ANLN	3.362115	5.51048	1.41E-97	3.53E-96
NMRK2	-4.93836	-1.98748	1.43E-97	3.58E-96
GLRA4	-3.26573	-2.32205	1.54E-97	3.84E-96
EZH2	2.298157	4.717518	1.67E-97	4.16E-96
CNTNAP3	-2.74607	0.056313	2.01E-97	5.01E-96
KLHL30	-2.75907	0.164976	2.05E-97	5.11E-96
SAA2-SAA1	-3.70214	2.131296	3.87E-97	9.62E-96
MEOX1	-2.69623	3.035626	6.80E-97	1.69E-95
SAA1	-3.34532	6.649437	7.88E-97	1.95E-95
CDCA3	3.043513	3.965058	8.37E-97	2.07E-95
SPAG5	2.79338	5.177933	9.55E-97	2.36E-95
RMI2	2.649482	4.080859	2.19E-96	5.40E-95

OIP5	2.428254	1.691828	5.40E-96	1.32E-94
FNDC5	-2.28125	1.498095	1.14E-95	2.79E-94
MRGPRF	-2.02262	2.844788	4.38E-95	1.06E-93
SLCO1C1	-2.03939	-0.97466	4.40E-95	1.06E-93
FAM110D	-2.07731	1.508107	6.68E-95	1.61E-93
ITLN1	-3.97663	-2.35897	1.84E-94	4.40E-93
NCAPH	2.7728	3.993313	2.50E-94	5.97E-93
TMC2	-2.38375	-1.46223	2.79E-94	6.66E-93
FOX M1	3.453551	5.518106	6.54E-94	1.55E-92
HPSE2	-3.21444	0.953077	1.75E-93	4.14E-92
DEPDC1B	2.930067	2.669243	1.82E-93	4.28E-92
KIF14	3.498638	3.631546	1.88E-93	4.44E-92
URAD	-4.03683	-3.5933	4.10E-93	9.62E-92
UTS2B	-2.24368	-1.91214	5.11E-93	1.20E-91
ABCB1	-2.03609	2.631184	5.96E-93	1.40E-91
CENPM	2.802452	3.154748	8.06E-93	1.88E-91
SCN2B	-2.83979	0.733626	1.94E-92	4.49E-91
FAM83D	3.491509	4.243857	3.19E-92	7.39E-91
ASB15	-4.15926	-1.49831	3.89E-92	8.97E-91
CDC20	3.523461	5.310317	4.35E-92	1.00E-90
ESPL1	2.726274	4.223674	5.25E-92	1.21E-90
ASB12	-2.68005	-2.02167	1.04E-91	2.39E-90
BIRC5	3.554034	5.570629	1.19E-91	2.72E-90
CENPU	2.364185	4.651917	2.97E-91	6.78E-90
MKI67	3.076669	6.680009	3.39E-91	7.73E-90
TOP2A	3.495625	7.349696	8.28E-91	1.88E-89
RECQL4	2.785872	4.879917	8.69E-91	1.97E-89
CCNA2	2.852227	4.602769	1.41E-90	3.18E-89
MMP28	-2.015	2.515599	2.23E-90	5.01E-89
AC007906	-2.78424	1.662245	2.75E-90	6.17E-89
SCN11A	-2.12119	-0.3787	9.23E-90	2.06E-88
SLC24A2	4.943073	2.521134	1.46E-89	3.25E-88
CMA1	-2.93588	0.07038	1.46E-89	3.25E-88
CLDN19	-3.48717	0.601487	1.58E-89	3.51E-88
ASB10	-5.86901	-3.2364	4.32E-89	9.57E-88
NWD2	-3.64626	-0.65084	1.51E-88	3.32E-87
HAGHL	3.455151	3.649958	1.56E-88	3.42E-87
KCNA2	-2.89348	-1.64255	1.63E-88	3.55E-87
ESCO2	2.70108	2.922141	2.33E-88	5.08E-87
AURKB	3.376391	3.760906	3.13E-88	6.82E-87
PPP1R3A	-7.87714	-0.31291	4.35E-88	9.46E-87
DUSP26	-3.3218	-0.28759	8.22E-88	1.79E-86
TRIM54	-3.48871	-0.47492	2.11E-87	4.58E-86
DUSP1	-2.01015	7.67873	6.22E-87	1.34E-85
C1QTNF6	2.208098	5.525203	7.34E-87	1.58E-85
RASSF9	-2.04873	2.124163	8.90E-87	1.91E-85
DUSP27	-2.89106	-0.17926	1.37E-86	2.93E-85
CRYAB	-2.84763	6.995986	1.01E-85	2.16E-84
DSC1	-2.6231	-0.28738	1.21E-85	2.57E-84
CENPA	3.257604	2.923558	1.62E-85	3.44E-84
TMEM178	-2.12212	1.434934	1.68E-85	3.56E-84
MTFR2	2.817249	2.016052	1.93E-85	4.06E-84
DEPDC1	3.242792	3.774037	2.44E-85	5.13E-84
OVCH2	-3.21537	-0.75923	3.04E-85	6.37E-84
TACR1	-2.61926	2.292803	4.84E-85	1.01E-83
ANKRD29	-2.2067	2.837214	5.53E-85	1.16E-83
KCNE1	-2.47384	-1.30069	8.14E-85	1.70E-83
ESM1	2.949913	3.416287	8.71E-85	1.81E-83

PPP1R14A	-2.32961	2.410693	1.32E-84	2.73E-83
TECRL	-7.14102	-2.5245	1.57E-84	3.26E-83
GJB2	4.280982	5.440854	2.47E-84	5.09E-83
SERTM1	-3.67069	-2.44906	2.69E-84	5.55E-83
ZBTB16	-3.03463	2.700773	3.51E-84	7.22E-83
SHCBP1	2.592394	3.600851	3.96E-84	8.15E-83
CENPE	2.600495	4.340034	4.63E-84	9.52E-83
KCNB1	-2.87798	2.75099	4.97E-84	1.02E-82
CDC45	2.888957	3.438525	1.21E-83	2.47E-82
CILP2	3.450503	4.049768	1.24E-83	2.53E-82
ACADL	-3.356	1.185618	1.46E-83	2.97E-82
PTGIS	-2.02458	5.077114	1.64E-83	3.32E-82
SOD3	-2.33556	4.726002	2.27E-83	4.60E-82
GPR182	-2.31134	-1.71303	2.47E-83	5.00E-82
RAD54L	2.777522	2.886863	2.61E-83	5.26E-82
GRIA4	-3.32064	1.399472	5.54E-83	1.11E-81
ADAMTS1	3.095779	2.787586	6.26E-83	1.26E-81
E2F1	2.63488	4.519286	7.09E-83	1.42E-81
COL25A1	-2.52269	0.424892	7.29E-83	1.46E-81
COMP	4.486943	7.058344	1.01E-82	2.01E-81
IQANK1	2.221527	5.819354	1.16E-82	2.32E-81
UBE2S	2.509733	4.537988	1.25E-82	2.50E-81
KIF15	2.53135	3.619966	1.63E-82	3.26E-81
CCL11	4.152691	0.51049	2.33E-82	4.63E-81
WDR86	-2.05254	2.068581	2.73E-82	5.42E-81
FAM107A	-2.66061	3.9737	2.78E-82	5.51E-81
GDF10	-3.09211	1.670288	4.71E-82	9.33E-81
RDM1	3.0382	0.060219	1.05E-81	2.08E-80
MYOM2	-3.25762	3.104315	5.43E-81	1.06E-79
POLQ	2.602348	3.090507	5.73E-81	1.12E-79
PIMREG	3.035665	2.902828	1.29E-80	2.51E-79
JPH2	-2.38524	3.044412	1.55E-80	3.00E-79
MYBL2	3.820325	5.844415	1.60E-80	3.10E-79
PAPPA2	-2.56642	0.425532	4.58E-80	8.84E-79
C1QTNF7	-2.50389	1.929129	5.72E-80	1.10E-78
FAM47E-9	-2.18575	-2.38569	1.02E-79	1.95E-78
CYP26B1	-2.13818	3.007122	1.30E-79	2.49E-78
TMTC1	-2.22362	5.261079	2.21E-79	4.20E-78
IBSP	8.030407	2.706278	3.43E-79	6.53E-78
LRRC15	3.815183	7.131104	4.16E-79	7.88E-78
VIP	-2.03036	-2.26788	4.25E-79	8.03E-78
BGN	2.324024	9.569889	4.25E-79	8.03E-78
PAK5	-3.17337	-0.15446	5.63E-79	1.06E-77
MMP13	6.278153	4.982807	6.09E-79	1.15E-77
CTXN1	2.861937	4.658716	6.34E-79	1.19E-77
TTK	2.855834	4.013092	7.24E-79	1.36E-77
C2orf88	-2.24217	2.350002	1.49E-78	2.79E-77
HSD11B1	-2.45233	2.29812	2.20E-78	4.11E-77
CNIH2	3.320475	2.292792	2.84E-78	5.29E-77
CLSPN	2.859832	3.024544	3.03E-78	5.64E-77
MAD2L1	2.163943	4.63023	7.29E-78	1.35E-76
TRIP13	2.558483	4.368307	1.31E-77	2.42E-76
KIF26B	2.809378	5.152616	1.34E-77	2.47E-76
AL096711	-2.09843	-2.24931	1.64E-77	3.04E-76
IL6	-2.7911	2.217732	1.69E-77	3.11E-76
JPT1	2.203548	6.880313	1.72E-77	3.18E-76
DACT2	-3.0121	0.016008	3.65E-77	6.71E-76
KPNA2	2.146676	7.283683	3.79E-77	6.95E-76

CTHRC1	2.408023	6.555601	4.21E-77	7.71E-76
KIF18A	2.416418	3.135342	6.34E-77	1.16E-75
SMIM10L2	-2.14644	2.227762	7.46E-77	1.36E-75
KCNE1B	-2.99477	-2.43475	1.13E-76	2.05E-75
AGBL1	-5.94732	-3.31444	1.32E-76	2.41E-75
MRGPRX2	-3.41218	-3.49688	1.51E-76	2.75E-75
IQSEC3	-2.12245	1.20258	2.11E-76	3.83E-75
RBFOX1	-3.77306	-1.72446	2.55E-76	4.62E-75
PKDCC	-2.03381	3.656501	2.82E-76	5.10E-75
CTNNA3	-2.42632	-0.28245	2.97E-76	5.37E-75
GSTM5	-3.0057	3.5916	3.02E-76	5.46E-75
HTR2A	-2.57554	-0.27967	3.16E-76	5.70E-75
CRB2	-2.11283	-0.06038	8.10E-76	1.45E-74
EME1	2.60042	2.428176	1.14E-75	2.03E-74
SCN5A	-2.20784	-0.32959	1.56E-75	2.78E-74
HMGB3	2.419857	6.3348	1.68E-75	3.00E-74
C6	-3.18331	1.917765	3.30E-75	5.86E-74
ABI3BP	-2.15536	5.13192	3.47E-75	6.16E-74
CLEC5A	3.262079	2.763254	4.97E-75	8.80E-74
MCM10	3.126809	3.808488	1.28E-74	2.26E-73
PTH1R	-2.1337	1.590351	1.90E-74	3.33E-73
PACSIN1	2.69149	2.224803	1.93E-74	3.37E-73
CLCA4	-3.30384	-0.31732	1.97E-74	3.45E-73
FN1	2.855963	12.22499	2.77E-74	4.84E-73
ARHGAP1	2.21617	4.454134	3.72E-74	6.48E-73
C10orf142	-2.24141	-3.05396	5.24E-74	9.09E-73
NTRK2	-2.59804	6.705827	6.24E-74	1.08E-72
SBK1	2.283886	5.364876	2.27E-73	3.92E-72
PLAC1	4.71508	0.561952	4.19E-73	7.21E-72
E2F7	2.874607	2.479681	1.67E-72	2.85E-71
TP63	-2.57029	4.499378	1.91E-72	3.25E-71
FAM111B	2.798861	4.651213	1.91E-72	3.25E-71
GPC3	-2.53466	5.360374	2.73E-72	4.63E-71
TLCD1	2.432073	3.743773	2.90E-72	4.92E-71
BMP8A	2.406366	0.422002	4.77E-72	8.05E-71
TONSL	2.10069	4.624756	8.08E-72	1.36E-70
TPRN	2.007911	5.352743	2.09E-71	3.51E-70
CENPI	2.197228	2.658292	3.69E-71	6.17E-70
PHYHIP	-2.11281	1.271073	5.66E-71	9.43E-70
AKR1C2	-3.08704	4.860126	6.07E-71	1.01E-69
STIL	2.08875	4.164737	7.47E-71	1.24E-69
GPR17	-2.35614	-0.70402	7.82E-71	1.30E-69
ATF3	-2.06751	5.863758	1.08E-70	1.78E-69
MND1	2.674999	2.007162	1.12E-70	1.85E-69
RELN	-2.72941	2.575286	1.47E-70	2.43E-69
SALL4	2.79383	1.049906	3.21E-70	5.29E-69
PROC	2.547867	-0.0871	3.56E-70	5.86E-69
RAD51AP1	2.269071	3.642957	5.90E-70	9.68E-69
GRIN2B	-2.83413	-0.25969	6.59E-70	1.08E-68
CLEC4G	-3.05861	-1.49207	8.90E-70	1.46E-68
CDCA2	2.918556	3.28251	9.29E-70	1.52E-68
EPHB1	-2.23146	2.645756	1.02E-69	1.67E-68
COL17A1	-2.83667	6.013174	1.19E-69	1.93E-68
MYL1	-7.70413	3.602681	1.45E-69	2.35E-68
BMP2	-2.18029	1.773786	1.74E-69	2.82E-68
P4HA3	2.441094	3.313339	2.46E-69	3.97E-68
TCEAL5	-2.78059	-0.59816	2.76E-69	4.45E-68
P2RX6	-2.37344	-0.90184	5.00E-69	8.06E-68

RNFT2	2.109291	2.807031	1.24E-68	1.98E-67
RAB26	3.116576	3.369933	1.78E-68	2.82E-67
FAM189A:	-2.13717	4.073744	1.78E-68	2.83E-67
SCN3B	-2.18336	0.941682	3.50E-68	5.53E-67
FBXO43	2.383047	0.296415	4.44E-68	6.97E-67
CST1	6.918076	3.657489	6.92E-68	1.08E-66
C2orf40	-2.94062	2.797256	8.29E-68	1.30E-66
CCDC78	3.52411	2.949242	1.10E-67	1.71E-66
HOXA6	-2.33478	-0.45399	1.30E-67	2.02E-66
SQLE	2.306851	6.710569	1.46E-67	2.25E-66
PPDPFL	-5.74148	-1.16286	2.18E-67	3.36E-66
MMP27	-2.56648	-1.47362	2.74E-67	4.21E-66
MAPK10	-2.03803	3.292753	2.83E-67	4.35E-66
AOX1	-2.26252	4.100703	3.97E-67	6.09E-66
CSF3	-3.68501	-0.98584	4.48E-67	6.86E-66
ADAM8	2.274517	4.52758	5.20E-67	7.95E-66
HIST1H3H	4.289524	3.502104	5.53E-67	8.44E-66
ORC6	2.533531	2.979552	5.79E-67	8.80E-66
CCNE2	2.412042	3.12412	5.93E-67	9.01E-66
EPYC	6.011962	2.016068	7.17E-67	1.09E-65
RHPN1	2.292056	5.57748	7.75E-67	1.17E-65
AUNIP	2.20365	2.111144	1.02E-66	1.54E-65
OR2B6	4.456616	-0.71695	1.41E-66	2.12E-65
RERGL	-2.85768	1.350684	1.55E-66	2.32E-65
GRM8	2.922678	-0.19369	1.70E-66	2.54E-65
RGS2	-2.00892	5.486862	4.18E-66	6.24E-65
PITX1	3.818643	5.049529	4.43E-66	6.61E-65
PRELP	-2.07077	6.344882	7.55E-66	1.12E-64
RGS6	-2.34294	0.83072	1.26E-65	1.86E-64
MFAP2	2.331937	5.44676	1.58E-65	2.33E-64
CDC6	2.98949	4.91579	1.63E-65	2.40E-64
HIST1H2B	2.680599	5.419774	1.77E-65	2.60E-64
MYOCD	-2.30532	0.277477	2.28E-65	3.34E-64
SLC7A3	-3.04412	-0.03667	2.68E-65	3.92E-64
GRM4	5.368524	3.123423	2.83E-65	4.13E-64
HOXA2	-2.13094	-0.26832	2.83E-65	4.14E-64
CDT1	2.468581	4.115125	3.08E-65	4.49E-64
METTL11E	5.145143	-2.05314	4.19E-65	6.10E-64
NXNL1	-2.80848	-3.6653	5.55E-65	8.08E-64
S100B	-2.80848	4.070384	6.60E-65	9.57E-64
PROX1	-2.22447	2.017465	7.31E-65	1.06E-63
STON1-G	-2.27525	-2.86573	9.07E-65	1.31E-63
CRYBG2	3.229003	1.677415	1.15E-64	1.65E-63
MYH6	-3.54313	-2.3906	1.21E-64	1.74E-63
HES6	2.861932	3.215656	1.37E-64	1.96E-63
CCL28	-2.41915	5.416242	1.92E-64	2.75E-63
SCT	3.735369	-0.57352	2.22E-64	3.18E-63
CYP1A1	-3.61965	-0.35441	2.47E-64	3.54E-63
TP53AIP1	-2.28066	0.164807	3.45E-64	4.92E-63
E2F2	2.570017	3.426552	3.88E-64	5.52E-63
MMP1	6.485924	5.078756	5.40E-64	7.66E-63
F12	2.85875	3.173636	5.45E-64	7.74E-63
HMCN2	-2.12977	2.435125	2.56E-63	3.61E-62
DLGAP2	-2.07316	-1.69634	2.76E-63	3.89E-62
TEPP	-2.52306	-1.59112	3.25E-63	4.57E-62
GINS2	2.142421	4.390722	5.63E-63	7.88E-62
TDO2	3.758318	2.287933	7.34E-63	1.03E-61
NRG2	-2.35374	1.26583	8.20E-63	1.15E-61

PIK3C2G	-2.65448	2.731199	1.44E-62	2.00E-61
KREMEN2	3.936391	1.81814	1.74E-62	2.43E-61
PLCZ1	-3.01741	-2.54112	2.52E-62	3.50E-61
FAM72A	2.382581	0.549187	2.68E-62	3.71E-61
RTKN2	2.059666	3.345639	3.49E-62	4.82E-61
CNKS2R2	-2.12037	0.885224	3.55E-62	4.91E-61
LAMP5	2.95292	3.912177	5.06E-62	6.98E-61
HIST1H2A	4.061764	-0.43688	7.63E-62	1.05E-60
TYMS	2.008327	4.781792	8.50E-62	1.16E-60
TMEM270	4.226184	-1.06042	8.85E-62	1.21E-60
THRSP	-2.80996	4.571746	1.62E-61	2.19E-60
CNTNAP3	-2.31029	1.022366	2.52E-61	3.41E-60
DIAPH3	2.275066	3.516269	2.63E-61	3.56E-60
SDS	2.282737	3.57933	2.92E-61	3.93E-60
GALR1	-2.78579	-2.99438	3.73E-61	5.02E-60
ADGRG4	-3.09263	-3.40686	7.49E-61	1.00E-59
CHRNA6	4.334812	0.25555	1.02E-60	1.36E-59
TUBB3	3.665015	1.935066	1.43E-60	1.89E-59
ADRB3	-2.84533	-2.69253	1.45E-60	1.92E-59
CNTFR	-2.67026	3.205715	1.98E-60	2.61E-59
FAM72D	2.912342	-0.49794	2.04E-60	2.69E-59
SYNGR3	3.164654	1.641495	2.36E-60	3.10E-59
ORC1	2.271088	2.767496	3.36E-60	4.41E-59
CEMIP	3.182848	4.451628	4.79E-60	6.28E-59
NTF4	-2.44399	0.114828	5.76E-60	7.54E-59
SAPCD2	2.244881	4.459144	6.89E-60	8.97E-59
MYPN	-4.03343	0.905242	7.69E-60	1.00E-58
SEMA3D	-2.09473	2.747539	8.32E-60	1.08E-58
TFR2	3.242103	1.903094	9.55E-60	1.24E-58
HBG2	-2.24144	-3.02005	9.73E-60	1.26E-58
AK5	-2.37102	4.376774	1.28E-59	1.66E-58
CFAP45	2.679216	2.607734	1.36E-59	1.76E-58
BMP3	-3.39961	0.352724	1.96E-59	2.51E-58
ZNF695	3.197535	1.318431	2.32E-59	2.98E-58
BRIP1	2.191326	3.599343	3.19E-59	4.07E-58
SAA2	-2.85429	4.179118	6.11E-59	7.72E-58
C6orf58	-2.03293	-2.62285	6.61E-59	8.35E-58
TMEM132	2.177129	6.708611	7.92E-59	9.94E-58
EGR3	-2.11987	5.345877	9.68E-59	1.21E-57
OLR1	2.220604	4.366435	1.45E-58	1.81E-57
LRRN3	-2.18355	1.778502	1.74E-58	2.17E-57
ADGRD2	-3.59395	0.363928	1.77E-58	2.21E-57
ENAM	-2.34365	-2.55119	2.09E-58	2.59E-57
IRX6	-2.46779	1.474897	2.58E-58	3.20E-57
AJM1	2.032175	2.465382	3.05E-58	3.77E-57
HIST1H2A	4.722428	1.046142	4.54E-58	5.60E-57
CCL16	-2.23346	-2.53399	7.33E-58	8.99E-57
ADM2	2.180113	3.952313	9.10E-58	1.11E-56
CCL23	-2.01666	-1.64866	1.47E-57	1.79E-56
MATN3	2.844161	4.742604	1.72E-57	2.09E-56
CCDC85A	-2.03238	0.443688	2.75E-57	3.31E-56
ARTN	3.205254	2.244982	3.82E-57	4.59E-56
CST2	5.242925	1.909998	4.91E-57	5.88E-56
HCN2	3.674663	0.875206	5.23E-57	6.26E-56
CLCN1	-2.17681	-1.07241	6.77E-57	8.08E-56
GLDN	-2.12621	2.352293	1.12E-56	1.33E-55
HIST1H2B	4.536572	-0.53359	1.16E-56	1.38E-55
OTC	-3.15071	-3.67495	1.41E-56	1.67E-55

SLC8A3	-2.04991	-1.48425	1.92E-56	2.26E-55
HASPIN	2.011285	1.55851	2.01E-56	2.36E-55
RIPPLY3	3.161116	1.778086	2.02E-56	2.38E-55
TCEAL6	-2.10307	-3.30148	5.58E-56	6.53E-55
RNASE7	-2.57943	-0.72067	6.44E-56	7.51E-55
IL4I1	2.674535	3.475962	1.05E-55	1.21E-54
IL21R	2.626586	2.346503	1.94E-55	2.25E-54
FOXP3	2.134714	2.594743	1.95E-55	2.26E-54
TIGD3	2.025247	0.100577	2.27E-55	2.62E-54
PRR11	2.747134	4.432752	2.69E-55	3.10E-54
MISP	3.244108	5.395717	3.04E-55	3.50E-54
MYO18B	-2.67579	0.933905	3.15E-55	3.62E-54
SLC16A3	2.250743	5.538085	3.42E-55	3.93E-54
E2F8	2.649878	2.713391	4.69E-55	5.38E-54
HIST1H2B	2.089015	5.073512	4.80E-55	5.50E-54
EFCAB1	-2.36033	0.386476	7.57E-55	8.66E-54
GFRA2	-2.10962	0.817553	8.16E-55	9.33E-54
SCN2A	-2.32189	1.651098	9.48E-55	1.08E-53
CDC25A	2.162167	3.088955	1.07E-54	1.22E-53
HIST1H3J	4.344156	-1.80797	1.58E-54	1.79E-53
BCAS4	2.023283	5.033077	1.72E-54	1.95E-53
ISG15	3.506758	6.929042	1.83E-54	2.07E-53
NR4A3	-2.05082	3.264532	2.22E-54	2.50E-53
PTN	-2.37451	5.506302	3.11E-54	3.49E-53
LMX1A	-2.44185	-1.4243	3.22E-54	3.61E-53
HTR1D	3.598399	0.332454	3.50E-54	3.92E-53
GFAP	-2.43547	0.743297	4.21E-54	4.71E-53
OGN	-2.37098	5.178436	6.32E-54	7.05E-53
CXCL11	3.720499	3.855652	6.94E-54	7.74E-53
PRR36	2.208552	5.228425	8.17E-54	9.07E-53
GADL1	-3.09749	-1.76912	1.07E-53	1.19E-52
KIFC2	2.094029	4.548978	1.15E-53	1.28E-52
DPP6	-2.70592	-0.13175	1.33E-53	1.48E-52
HIST1H4I	2.016799	4.009688	1.45E-53	1.60E-52
ITPKA	3.334505	0.57543	3.19E-53	3.50E-52
ELANE	-2.40938	-2.42191	3.60E-53	3.94E-52
SLC7A14	-2.59476	-2.66826	3.81E-53	4.17E-52
GPRC5A	2.364644	8.42233	8.08E-53	8.78E-52
GABRE	-2.36874	3.873181	1.27E-52	1.37E-51
GNG13	5.49605	0.116934	1.41E-52	1.52E-51
PNMA8C	-2.78047	-2.71544	1.50E-52	1.63E-51
C3orf67	2.087615	2.276248	1.72E-52	1.86E-51
HIST1H3D	3.444997	1.216413	2.18E-52	2.35E-51
CXCL10	3.581061	5.753133	2.19E-52	2.36E-51
ACKR1	-2.34862	5.066599	2.85E-52	3.06E-51
FFAR3	-2.19258	-3.34333	2.90E-52	3.11E-51
HIST1H2B	3.675208	-1.26232	3.18E-52	3.41E-51
S100P	4.760581	5.804742	8.42E-52	8.96E-51
COX6C	2.785068	9.212201	8.92E-52	9.47E-51
AGMO	-2.12031	-0.3836	9.99E-52	1.06E-50
RGS7BP	-2.12649	-0.50984	1.99E-51	2.10E-50
C9orf116	2.030017	3.195893	2.14E-51	2.26E-50
TESMIN	2.003942	5.215568	2.54E-51	2.67E-50
CD80	2.220237	0.463717	5.13E-51	5.36E-50
NSG1	-2.20053	1.945496	5.85E-51	6.10E-50
CST4	8.301875	2.425084	6.31E-51	6.57E-50
SYNDIG1	2.825771	2.924779	6.37E-51	6.62E-50
TNFRSF18	2.909495	3.223747	8.49E-51	8.80E-50

ASB4	-2.43924	-1.32901	1.13E-50	1.17E-49
FAM72B	2.316201	0.359765	1.42E-50	1.46E-49
PIF1	2.330504	1.717216	2.71E-50	2.77E-49
LCN6	-2.30709	-1.6826	4.53E-50	4.61E-49
EPN3	2.189618	5.57956	5.66E-50	5.74E-49
ALX4	-2.3498	2.0591	6.93E-50	7.01E-49
CAMK2N2	3.097687	0.028534	7.03E-50	7.11E-49
HIST1H2B	3.471178	0.941498	7.65E-50	7.73E-49
PENK	-3.00806	1.35941	1.02E-49	1.02E-48
DQX1	3.882945	1.221049	1.04E-49	1.04E-48
MAPK8IP2	2.726613	5.070892	2.06E-49	2.06E-48
SFRP1	-2.56436	8.035425	2.76E-49	2.76E-48
DBX2	-2.03941	-1.45646	4.43E-49	4.40E-48
RNF186	-3.05918	-1.41133	4.95E-49	4.91E-48
KIAA1211	2.66759	2.740753	6.39E-49	6.33E-48
HAPLN1	5.292769	2.599258	8.77E-49	8.65E-48
FGFBP2	-2.74702	1.467119	1.14E-48	1.11E-47
NRG1	-2.14325	2.990359	1.33E-48	1.30E-47
TNFRSF9	2.681617	1.767034	1.53E-48	1.50E-47
CREB3L1	2.296485	6.264086	2.51E-48	2.45E-47
ILDR2	2.267273	0.91599	3.43E-48	3.33E-47
CYSRT1	2.274769	1.263748	3.72E-48	3.61E-47
HIST2H4A	2.856667	-0.72794	3.74E-48	3.62E-47
TICRR	2.055067	3.31536	5.77E-48	5.58E-47
HIST1H2A	3.571102	0.800636	8.92E-48	8.61E-47
RHBDL1	2.611464	2.189306	1.10E-47	1.06E-46
PTGFR	-2.12185	2.049205	1.38E-47	1.32E-46
CPA2	-2.40052	-2.49852	1.41E-47	1.35E-46
COL1A1	2.249849	12.74949	1.94E-47	1.86E-46
EGFL6	-2.00925	2.909357	1.95E-47	1.86E-46
HSH2D	2.670175	4.385635	2.07E-47	1.98E-46
CADM3	-2.24478	2.337414	2.20E-47	2.10E-46
METRNL	2.371857	5.798366	2.49E-47	2.37E-46
C20orf204	2.379517	1.287088	2.66E-47	2.52E-46
LEF1	2.023768	4.764676	4.64E-47	4.36E-46
TMEM145	3.791767	2.147205	5.53E-47	5.18E-46
GBX2	4.301492	-2.12705	6.17E-47	5.77E-46
4-Mar	4.748975	0.144629	7.03E-47	6.56E-46
CELSR3	2.483051	3.983326	1.06E-46	9.80E-46
TEX26	-2.79361	-3.53541	1.15E-46	1.06E-45
DNASE1L2	2.293312	0.644552	1.71E-46	1.58E-45
PTK6	2.020377	4.440134	1.82E-46	1.68E-45
S100A14	2.661026	7.748471	2.66E-46	2.44E-45
ART1	-2.88812	-2.69834	3.18E-46	2.91E-45
LHX2	4.330724	-0.18482	3.66E-46	3.34E-45
GPR19	2.314404	0.829281	4.55E-46	4.15E-45
SYNGR4	3.099462	-1.51716	7.71E-46	6.99E-45
INMT-MIN	-2.38451	-4.28877	1.09E-45	9.88E-45
NKX3-2	2.915895	0.253714	1.26E-45	1.14E-44
SMIM22	2.515753	5.693919	1.46E-45	1.32E-44
POSTN	2.133681	10.19652	1.47E-45	1.33E-44
CLPSL2	3.348217	0.615996	1.65E-45	1.49E-44
HIST3H2B	3.144779	1.519766	2.26E-45	2.03E-44
CCR8	3.18058	-0.33247	2.65E-45	2.37E-44
SRMS	2.358953	2.490359	2.91E-45	2.60E-44
ADGRL3	-2.04566	2.090037	2.96E-45	2.64E-44
FAT2	-2.20336	4.103707	4.51E-45	4.01E-44
RPE65	-2.62699	-2.69402	7.76E-45	6.85E-44

CHST9	-2.36662	2.125477	1.08E-44	9.48E-44
IFI6	2.868625	8.54821	1.23E-44	1.08E-43
HOXC13	2.964114	3.519283	1.58E-44	1.39E-43
NKAIN1	4.010685	5.543645	1.87E-44	1.64E-43
CAMP	4.331405	0.838362	3.44E-44	2.98E-43
CAPZA3	-2.77943	-2.88038	3.47E-44	3.01E-43
NPR3	-2.01592	4.486411	3.48E-44	3.01E-43
CCNE1	2.780242	3.133514	3.81E-44	3.30E-43
DCT	-2.54688	-0.37889	4.10E-44	3.54E-43
DPEP1	2.440827	0.662727	4.83E-44	4.16E-43
CCL21	-2.34711	4.164925	4.94E-44	4.26E-43
CNTD2	3.025296	3.020321	5.28E-44	4.55E-43
SLC16A12	-2.18834	0.100394	5.56E-44	4.79E-43
MYOC	-3.79361	2.397808	5.84E-44	5.02E-43
MYBPH	-2.20487	-1.00822	6.42E-44	5.52E-43
JAKMIP1	2.764197	0.949733	7.90E-44	6.78E-43
C2CD4B	-2.10071	1.201644	1.20E-43	1.02E-42
ANKRD22	2.112549	2.848279	1.41E-43	1.20E-42
FBN2	3.053289	3.699653	1.62E-43	1.38E-42
STARD10	2.141487	7.924996	1.86E-43	1.58E-42
SLC7A5	2.585534	6.999182	1.91E-43	1.62E-42
RTBDN	6.247957	1.138921	3.69E-43	3.11E-42
KLF14	-2.04408	-1.42835	4.58E-43	3.85E-42
HIST1H2B	2.686693	3.038803	5.07E-43	4.25E-42
SGCG	-2.65988	1.313097	7.19E-43	6.01E-42
TMEM92	2.581461	0.436447	7.22E-43	6.03E-42
SHOX	-2.22318	-3.56376	1.48E-42	1.23E-41
HOXC11	3.564371	3.183391	2.07E-42	1.71E-41
CBX2	2.670812	4.666209	2.11E-42	1.74E-41
HRASLS5	-2.17677	4.089946	3.56E-42	2.91E-41
HAS1	-2.27244	0.57861	3.73E-42	3.05E-41
GABRG1	-2.3921	-3.34346	4.38E-42	3.58E-41
PLCXD3	-2.22812	1.002815	4.99E-42	4.06E-41
HIST1H2B	2.567881	1.845119	6.13E-42	4.98E-41
HIST2H2B	2.012762	6.339522	6.96E-42	5.64E-41
MYBPC1	-3.21469	6.435795	9.04E-42	7.29E-41
MUC1	2.529381	9.154924	1.37E-41	1.10E-40
LRRC46	2.098415	2.565311	1.67E-41	1.34E-40
MRLN	-3.00785	-3.42228	1.84E-41	1.47E-40
C10orf90	-2.45103	0.442729	2.60E-41	2.07E-40
TRPM1	-2.1818	-3.28663	2.63E-41	2.09E-40
SLC14A2	-2.18151	0.516623	3.08E-41	2.45E-40
METTL21C	-2.88452	-3.84338	3.65E-41	2.89E-40
CAPS	2.168728	5.590282	3.96E-41	3.13E-40
TRPA1	6.293297	3.990479	5.69E-41	4.48E-40
ZMYND1C	2.524117	3.873941	6.16E-41	4.85E-40
GRIN2D	2.191338	2.200968	7.02E-41	5.51E-40
HIST1H4D	4.289857	-0.58567	8.19E-41	6.42E-40
KLK4	3.079219	1.727741	9.62E-41	7.53E-40
MYT1	4.490618	1.981046	1.20E-40	9.34E-40
MAS1L	-2.19812	-3.00356	1.43E-40	1.12E-39
LRRC73	2.076647	1.597977	1.47E-40	1.15E-39
ACTL8	7.829443	2.401766	2.33E-40	1.81E-39
APOBEC3I	2.56553	3.444053	2.45E-40	1.90E-39
SYT13	4.999725	6.059779	2.57E-40	1.98E-39
IGFL3	4.872312	-0.80871	2.96E-40	2.28E-39
BMPER	-2.05138	1.371006	3.23E-40	2.49E-39
IGFL2	3.197942	0.850174	4.52E-40	3.47E-39

ERMN	2.550753	1.041196	7.89E-40	6.01E-39
ACAN	4.291901	4.05783	8.48E-40	6.45E-39
CIB3	3.034227	-0.6648	9.04E-40	6.87E-39
ENTHD1	2.824743	-1.30093	1.16E-39	8.82E-39
MYF6	-4.10029	-0.65775	1.36E-39	1.03E-38
OR2L13	-2.38119	-2.58384	1.43E-39	1.08E-38
NOS1	-2.66468	-0.17059	1.49E-39	1.12E-38
ULBP1	3.072344	0.77714	1.71E-39	1.29E-38
RIIAD1	3.330365	-0.03642	2.09E-39	1.57E-38
HIST1H3B	5.477219	-0.45343	4.79E-39	3.54E-38
LINGO1	2.49282	4.587474	5.60E-39	4.13E-38
MYOG	-3.18527	-1.94776	6.96E-39	5.11E-38
CNTNAP2	3.96239	5.276674	7.16E-39	5.25E-38
CFB	2.545317	5.907752	8.44E-39	6.17E-38
ASTN1	-2.00234	0.765722	1.09E-38	7.97E-38
DNAAF3	2.426081	1.945027	1.29E-38	9.39E-38
KISS1R	4.166424	0.423299	1.38E-38	1.01E-37
KCNA1	-2.09747	-0.21222	1.40E-38	1.02E-37
LYPD1	2.227504	0.700354	1.99E-38	1.44E-37
FAM57B	2.850455	1.225505	2.00E-38	1.45E-37
FOXH1	2.256442	-1.47086	2.82E-38	2.03E-37
CDKN2A	2.74289	4.372738	2.92E-38	2.10E-37
LRTM2	5.531919	0.890962	3.40E-38	2.44E-37
OASL	2.345322	4.356728	4.55E-38	3.25E-37
HIST1H2B	3.855083	0.040807	5.82E-38	4.15E-37
GMNC	-3.00325	-3.85945	5.86E-38	4.18E-37
FAM72C	2.68006	-1.5175	7.36E-38	5.24E-37
HIST1H4E	4.063629	0.630599	9.62E-38	6.83E-37
CRABP2	2.138656	9.080829	1.10E-37	7.79E-37
LRFN2	2.754587	-0.01011	1.41E-37	9.92E-37
ACTC1	-2.46497	0.061414	1.87E-37	1.32E-36
MAPK15	2.685449	4.033544	2.34E-37	1.64E-36
HIST2H2B	2.698475	1.827124	2.77E-37	1.94E-36
NPW	4.116868	0.72464	2.79E-37	1.96E-36
CLDN8	-2.10282	3.849336	2.96E-37	2.07E-36
CSMD2	2.079125	1.940036	3.48E-37	2.43E-36
MROH6	2.004054	3.737378	4.01E-37	2.79E-36
SPEF1	2.433054	1.504702	4.20E-37	2.92E-36
HIST1H4H	2.634976	3.04826	5.83E-37	4.03E-36
IL17B	-2.06996	0.349418	7.96E-37	5.49E-36
PLPPR1	-2.27281	-0.42404	1.14E-36	7.80E-36
CXCL9	3.153151	6.703692	1.29E-36	8.85E-36
ITIH2	-2.233	1.031256	1.38E-36	9.44E-36
DEGS2	2.52265	6.239493	1.49E-36	1.02E-35
TGFBR3L	3.090293	-0.59662	1.67E-36	1.14E-35
CALB2	-2.10739	4.321715	1.82E-36	1.25E-35
HIST1H4K	2.459176	-1.53858	2.10E-36	1.43E-35
OR10A3	-2.50803	-4.17303	2.66E-36	1.80E-35
UNC13A	3.937204	2.192526	3.00E-36	2.03E-35
ATP1A3	3.213245	2.066756	3.13E-36	2.12E-35
DMBX1	3.125839	-0.43726	3.16E-36	2.14E-35
AMZ1	2.669241	2.159025	3.58E-36	2.42E-35
CPNE7	2.58148	3.286973	3.82E-36	2.57E-35
HIST2H2A	3.028531	0.634074	4.11E-36	2.76E-35
KCNJ10	2.391416	0.369089	5.54E-36	3.71E-35
CCL13	-2.03404	1.087061	7.20E-36	4.80E-35
HIST1H1C	2.273388	6.493664	9.49E-36	6.30E-35
FOXJ1	4.476146	2.739991	9.62E-36	6.38E-35

PPP2R2C	3.498858	4.516518	1.13E-35	7.49E-35
WT1	4.574947	2.427792	1.26E-35	8.31E-35
RDH16	2.660016	1.747741	1.67E-35	1.10E-34
MYBL1	2.140424	4.261771	1.67E-35	1.10E-34
NPY2R	-3.51668	1.305039	1.73E-35	1.14E-34
TMEM249	2.563322	-1.56494	1.87E-35	1.23E-34
PLPPR5	3.138614	-1.61389	2.21E-35	1.45E-34
CAPN9	2.71579	3.11253	2.42E-35	1.59E-34
IL9R	2.076828	-1.06243	2.52E-35	1.65E-34
HPN	2.23026	5.497889	3.03E-35	1.97E-34
OTX1	2.522883	2.032462	4.04E-35	2.63E-34
PRR15	2.379309	5.244786	4.16E-35	2.70E-34
HIST1H4J	2.396335	-1.94293	4.36E-35	2.83E-34
NAT1	3.243216	7.102752	4.43E-35	2.88E-34
TEX19	4.739409	-1.19109	4.91E-35	3.18E-34
HIST1H2A	4.111456	-2.11757	5.03E-35	3.25E-34
COL22A1	3.065708	3.160183	6.05E-35	3.91E-34
SLC27A6	-2.06026	2.120074	8.38E-35	5.38E-34
ARMC3	2.853482	1.435313	1.10E-34	7.04E-34
KCNH8	-2.00809	0.24909	1.15E-34	7.32E-34
MEX3A	2.042888	5.663386	1.15E-34	7.34E-34
CAPSL	3.952147	0.404639	1.59E-34	1.01E-33
SCGB1A1	-3.71718	-0.55112	1.89E-34	1.20E-33
NLGN1	-2.08441	0.432157	2.13E-34	1.35E-33
SCUBE3	2.883978	4.497328	2.47E-34	1.56E-33
KCNG3	2.775533	-0.79119	2.99E-34	1.88E-33
CBLN2	6.073543	3.941962	3.64E-34	2.28E-33
HIST1H2B	3.53077	-1.38228	4.26E-34	2.67E-33
MMP9	3.314677	7.345019	4.73E-34	2.96E-33
LHFPL5	3.778291	-0.47272	4.93E-34	3.08E-33
NT5DC4	3.032175	-1.99895	5.60E-34	3.49E-33
SLC44A4	2.559696	6.998095	8.11E-34	5.04E-33
RAMP1	2.651615	4.266824	1.03E-33	6.39E-33
RHBG	2.658906	0.372313	1.04E-33	6.47E-33
GAL3ST2	4.022117	0.014605	1.42E-33	8.79E-33
RET	2.917048	6.10051	1.43E-33	8.80E-33
FGD3	2.051414	5.921859	1.64E-33	1.01E-32
HIST1H2A	5.061813	-2.05416	1.87E-33	1.15E-32
CSAG1	8.247115	0.440604	2.14E-33	1.32E-32
ARNT2	2.054904	6.134829	2.16E-33	1.33E-32
HOXC10	2.486862	5.314339	2.83E-33	1.73E-32
EDN2	2.512679	2.88564	3.05E-33	1.86E-32
BMPR1B	4.254437	7.585995	3.22E-33	1.97E-32
SYT5	4.182798	0.647239	3.22E-33	1.97E-32
KCNK15	2.500088	4.092771	3.92E-33	2.39E-32
SPP1	2.296042	8.060331	4.05E-33	2.47E-32
MOGAT1	-2.25955	-3.05094	4.16E-33	2.53E-32
PARD6B	2.18228	5.761905	4.24E-33	2.58E-32
PCSK1	6.444938	5.882495	4.63E-33	2.81E-32
C11orf87	-2.23613	-2.95369	4.89E-33	2.96E-32
ELAVL2	2.614651	1.787419	5.46E-33	3.30E-32
AQP4	-2.22564	0.946397	6.23E-33	3.75E-32
CYP1A2	-2.22546	-4.15199	8.70E-33	5.21E-32
TPPP2	-2.17811	-2.90602	9.45E-33	5.65E-32
SAMD11	2.675648	3.04938	1.03E-32	6.15E-32
UMODL1	2.825952	0.744425	1.11E-32	6.60E-32
CGA	8.679306	4.647876	1.13E-32	6.77E-32
NELL2	3.260161	5.668971	1.41E-32	8.39E-32

FBXL16	2.024634	5.096983	1.74E-32	1.03E-31
SLC7A11	2.209611	3.355931	1.99E-32	1.18E-31
CADPS	3.278566	1.049008	2.03E-32	1.20E-31
AADAC	-2.9501	0.28859	2.22E-32	1.32E-31
MIEN1	2.031536	6.525836	2.29E-32	1.35E-31
VGFB	3.782452	0.753475	2.39E-32	1.41E-31
GBP5	2.516632	4.844401	2.41E-32	1.42E-31
ADAMDEC1	2.766069	3.221957	2.71E-32	1.60E-31
HIST1H1E	4.135405	1.339632	2.74E-32	1.61E-31
IL19	5.292986	0.063691	2.78E-32	1.64E-31
SPDYC	7.284498	2.645958	2.84E-32	1.67E-31
CEACAM6	4.308119	7.720848	4.11E-32	2.40E-31
PF4	-2.40803	-3.80202	5.66E-32	3.30E-31
CLGN	2.644946	4.340123	5.78E-32	3.36E-31
TLX1	5.80509	1.021189	5.79E-32	3.37E-31
HIST1H1B	5.039154	-0.01735	6.18E-32	3.59E-31
SLC4A1	-2.04721	-2.95869	6.28E-32	3.65E-31
NMU	3.685758	1.048659	7.95E-32	4.61E-31
GDA	-2.51207	-1.69197	8.37E-32	4.85E-31
MUC2	8.772446	5.548303	8.49E-32	4.91E-31
TINCR	2.573404	4.174247	9.96E-32	5.76E-31
KCNA4	-2.80244	-2.73134	9.98E-32	5.77E-31
CHST6	2.22103	1.845639	9.99E-32	5.77E-31
SPOCD1	2.155834	2.468118	1.11E-31	6.41E-31
DMP1	4.886161	-0.98601	1.17E-31	6.72E-31
AMH	2.699285	1.172749	1.35E-31	7.79E-31
TMEM190	2.743919	-1.89919	1.39E-31	7.98E-31
CLDN9	2.734524	0.798091	1.43E-31	8.20E-31
GABRQ	5.7176	2.032544	1.97E-31	1.13E-30
IL17REL	3.129791	0.083904	1.99E-31	1.14E-30
CFAP47	3.057349	0.089724	2.43E-31	1.38E-30
NSG2	5.845792	2.436888	2.87E-31	1.63E-30
HS3ST4	-2.75746	0.072844	2.93E-31	1.66E-30
KCNH1	3.010723	1.582106	3.01E-31	1.70E-30
TAS1R3	2.141506	1.348334	3.14E-31	1.78E-30
CA9	4.771486	2.689482	3.68E-31	2.08E-30
LY6H	2.35288	-0.15229	3.95E-31	2.22E-30
CHRNA9	6.702169	2.84987	4.44E-31	2.50E-30
CCDC187	4.673714	-1.19067	4.48E-31	2.52E-30
TMEM215	3.960136	-0.89145	4.54E-31	2.55E-30
APLP1	2.600374	3.908497	5.71E-31	3.19E-30
HIST1H3C	3.723076	-1.81555	5.78E-31	3.23E-30
C19orf33	2.77796	4.163108	6.40E-31	3.57E-30
MS4A15	4.187255	1.962852	1.14E-30	6.31E-30
FGFR3	2.396279	4.996782	1.48E-30	8.17E-30
IGFALS	2.864824	2.176016	1.60E-30	8.82E-30
10-Mar	2.593362	-0.42984	1.62E-30	8.93E-30
CD177	4.904741	3.236401	2.64E-30	1.44E-29
CELF3	4.490537	-0.09863	2.91E-30	1.58E-29
ENTPD8	2.686775	2.051308	2.99E-30	1.63E-29
HIST1H1T	3.516872	-2.92328	3.54E-30	1.92E-29
INSYN2	3.711197	3.821932	5.65E-30	3.04E-29
HOXB9	2.618152	1.423339	5.85E-30	3.15E-29
HIST1H3G	3.013045	0.593009	6.00E-30	3.23E-29
EMX1	3.589	1.395462	7.29E-30	3.92E-29
SGCZ	-2.63702	-3.60179	7.70E-30	4.13E-29
MX1	3.164675	0.844421	8.33E-30	4.46E-29
TERT	2.769067	-0.90193	8.45E-30	4.52E-29

CCDC151	2.169101	0.958141	8.52E-30	4.56E-29
HHIPL2	3.196564	1.708403	8.56E-30	4.58E-29
HIST1H1D	3.588602	0.536122	8.58E-30	4.59E-29
TF	-2.17089	5.053185	9.34E-30	4.99E-29
RCOR2	2.323504	2.672261	9.39E-30	5.01E-29
CST6	2.627865	2.043368	9.85E-30	5.25E-29
BRSK2	2.840497	1.454987	1.28E-29	6.79E-29
TMEM151	3.700141	-0.98814	1.46E-29	7.72E-29
HIST1H2B	2.373025	2.711694	1.46E-29	7.72E-29
INSM1	5.238746	2.910103	1.49E-29	7.87E-29
CLPSL1	3.004099	1.446816	1.50E-29	7.92E-29
SIM2	2.230255	3.249043	1.67E-29	8.81E-29
MSLNL	4.03121	-1.2879	1.82E-29	9.59E-29
IGF2BP1	3.699995	-0.1187	1.84E-29	9.72E-29
CHRND	-3.26998	-2.40789	1.93E-29	1.02E-28
PNCK	2.575334	1.360557	1.99E-29	1.05E-28
SCX	2.04551	0.364198	2.22E-29	1.16E-28
GNG3	2.865948	-0.28853	2.47E-29	1.30E-28
SLC16A6	2.472983	5.381684	3.06E-29	1.60E-28
AOC1	3.518087	2.013592	3.70E-29	1.94E-28
HIST3H2A	2.053066	4.160973	3.70E-29	1.94E-28
NKX6-1	2.767832	1.18639	4.13E-29	2.15E-28
SAA4	-2.02637	-1.14193	5.07E-29	2.64E-28
BBOX1	-2.04959	3.134404	5.65E-29	2.93E-28
HIST1H4C	4.471271	-0.46885	6.14E-29	3.18E-28
HIST1H3F	4.642253	-1.26471	6.52E-29	3.37E-28
KCNE4	2.607641	6.286804	7.34E-29	3.79E-28
KRT37	3.29405	-1.43865	8.26E-29	4.26E-28
PRAC2	5.9002	-1.33301	9.83E-29	5.06E-28
FSIP1	2.703671	4.193902	1.00E-28	5.15E-28
CASP14	6.711314	5.302832	1.14E-28	5.84E-28
HIST1H2B	5.061525	-2.3863	1.19E-28	6.08E-28
LKAAEAR1	2.801699	-2.50764	1.23E-28	6.30E-28
DLX4	2.036798	0.969241	1.32E-28	6.76E-28
LCN1	3.025979	-3.52148	1.57E-28	8.01E-28
FUT7	2.018358	-0.40885	1.78E-28	9.08E-28
GDF15	2.408656	4.484402	1.88E-28	9.55E-28
KISS1	2.698256	-1.52514	2.09E-28	1.06E-27
KCNK9	3.055985	-1.26352	2.40E-28	1.22E-27
TYRP1	4.125675	1.173635	2.44E-28	1.24E-27
CACNG4	2.409075	6.557739	2.58E-28	1.31E-27
TSPAN1	2.454395	6.632114	2.80E-28	1.42E-27
AADA3L3	-3.06468	-3.74485	3.13E-28	1.58E-27
CFAP99	2.013476	-0.35137	3.25E-28	1.64E-27
MMP3	2.288171	3.89007	4.33E-28	2.17E-27
F7	2.798205	3.059599	4.66E-28	2.33E-27
EPO	3.886439	0.039627	4.82E-28	2.41E-27
FCRLB	3.174022	2.942276	4.86E-28	2.43E-27
PVALB	4.955131	3.818119	5.02E-28	2.50E-27
KCNJ3	5.198765	5.831902	5.05E-28	2.52E-27
DIO1	3.517445	3.614958	5.05E-28	2.52E-27
CYP21A2	2.321865	1.635722	5.33E-28	2.65E-27
OPRD1	2.789266	1.681253	8.84E-28	4.36E-27
SIX2	2.30593	3.203001	9.71E-28	4.79E-27
ORM1	5.891323	3.18643	9.82E-28	4.84E-27
MMP10	3.109204	2.396583	1.01E-27	4.98E-27
SPHKAP	-2.71076	0.271486	1.09E-27	5.37E-27
FABP6	4.283554	0.056805	1.11E-27	5.43E-27

ABCB11	-2.01342	-2.01132	1.20E-27	5.90E-27
ADAMTS2	4.293909	-1.88548	1.35E-27	6.61E-27
IFNL2	4.265872	-3.29876	1.36E-27	6.64E-27
RUFY4	2.388262	0.423613	1.55E-27	7.55E-27
FGF5	3.837446	-1.57647	1.81E-27	8.81E-27
SLC30A8	5.854535	5.943206	1.89E-27	9.20E-27
TNR	2.881973	0.675921	2.18E-27	1.06E-26
RGS8	2.37079	-1.19383	2.33E-27	1.13E-26
RIMS4	3.333844	4.956272	2.58E-27	1.25E-26
ADGRF4	3.381505	-0.15945	2.74E-27	1.32E-26
GJA3	2.244028	-1.37773	2.74E-27	1.33E-26
IFNL3	4.047185	-3.27226	2.75E-27	1.33E-26
EPHA8	3.660985	0.403943	2.83E-27	1.37E-26
LHCGR	-2.85618	-1.3661	2.99E-27	1.44E-26
CALHM1	2.859556	-1.47364	3.05E-27	1.47E-26
CST5	7.904097	3.610073	3.21E-27	1.55E-26
MIOX	2.17855	-2.20641	3.30E-27	1.59E-26
HOXB13	5.65068	2.440054	3.50E-27	1.68E-26
BPIFB1	3.988433	5.506903	3.59E-27	1.72E-26
HIST1H2A	2.246543	2.163764	4.22E-27	2.02E-26
TIGIT	2.046607	2.838832	5.38E-27	2.57E-26
CEACAM5	4.359062	5.675295	5.40E-27	2.57E-26
ZBED2	2.500882	0.307638	6.10E-27	2.90E-26
CDH2	2.571963	3.671459	7.17E-27	3.41E-26
CLDN25	3.862334	-2.81193	7.24E-27	3.44E-26
PLEKHD1	2.456758	2.497068	7.86E-27	3.72E-26
PRAME	4.911326	4.85277	8.35E-27	3.95E-26
KIF1A	4.275785	4.110364	1.02E-26	4.81E-26
KCNJ6	2.932595	0.241267	1.06E-26	4.99E-26
PIGR	-2.28632	6.510744	1.09E-26	5.13E-26
MAEL	4.37622	1.074229	1.27E-26	5.95E-26
AKR7A3	2.577135	4.76302	1.65E-26	7.73E-26
TMEFF2	-2.16561	-3.05162	1.73E-26	8.09E-26
MAB21L4	3.490266	4.115633	1.80E-26	8.38E-26
PMCH	2.284193	-3.50298	1.84E-26	8.60E-26
HOXC12	4.08217	2.519484	2.10E-26	9.79E-26
APOA1	3.679871	0.128548	3.09E-26	1.43E-25
AC004233	3.629822	-0.77076	3.31E-26	1.53E-25
CLPS	2.980905	-1.24004	4.03E-26	1.86E-25
DLX5	2.526049	1.406774	4.86E-26	2.23E-25
LIX1	3.680301	-1.54716	5.59E-26	2.56E-25
KLHDC7B	2.908735	4.362346	6.02E-26	2.75E-25
MRGPRX3	-2.15268	-0.81148	6.90E-26	3.14E-25
OSTN	-2.46597	-3.62215	8.65E-26	3.93E-25
SLC6A4	3.797732	3.864963	9.05E-26	4.10E-25
CABP7	2.298382	-0.38373	1.18E-25	5.32E-25
ONECUT2	3.328376	1.979808	1.30E-25	5.85E-25
JPH3	2.403102	0.682969	1.32E-25	5.94E-25
CLDN6	4.810484	1.266213	1.35E-25	6.07E-25
SOX11	3.008698	4.028941	1.40E-25	6.28E-25
TRH	5.73014	4.665237	1.43E-25	6.40E-25
HIST1H3I	5.590592	-2.66203	1.47E-25	6.57E-25
FABP9	-2.87702	-4.18452	1.58E-25	7.07E-25
BCAS1	2.447477	5.448295	1.63E-25	7.31E-25
PYDC1	4.451553	2.648545	1.72E-25	7.70E-25
C1orf194	2.250343	-0.31573	1.78E-25	7.96E-25
GAD1	3.299188	1.598358	2.00E-25	8.91E-25
SLCO1A2	-2.44702	0.194378	2.90E-25	1.28E-24

IL20	3.448446	2.381186	3.10E-25	1.37E-24
TNNI3	3.59757	0.779246	3.74E-25	1.65E-24
SPINK4	3.678822	-0.74189	3.75E-25	1.65E-24
INHA	2.815389	1.701458	4.04E-25	1.78E-24
MYOD1	-3.43267	-2.97069	4.48E-25	1.97E-24
SUSD3	2.107175	5.846553	4.85E-25	2.12E-24
MINDY4B	2.355618	-1.30037	4.94E-25	2.16E-24
VSTM2L	2.660645	2.547645	5.37E-25	2.35E-24
NEURL1	2.57932	3.888497	5.55E-25	2.42E-24
MAST1	2.049956	1.056786	5.94E-25	2.59E-24
FOXD3	3.037958	-0.59177	6.18E-25	2.69E-24
FSD1	2.8504	-0.27719	6.22E-25	2.71E-24
CDC20B	5.161094	2.834754	6.68E-25	2.90E-24
NXPH4	2.421771	2.823375	7.10E-25	3.08E-24
PTCHD1	-2.00067	2.538533	7.18E-25	3.11E-24
FOXD1	2.936425	0.809397	7.73E-25	3.35E-24
CCL24	-2.13483	-1.82381	9.63E-25	4.15E-24
CRYBA2	4.683499	-1.53978	9.77E-25	4.21E-24
HIST2H2A	4.040861	-1.52485	1.08E-24	4.63E-24
GABRA5	5.745216	-0.76444	1.16E-24	4.98E-24
ORM2	4.464492	2.058938	1.24E-24	5.32E-24
XKR7	4.843585	0.420363	1.27E-24	5.46E-24
PPM1E	2.295527	1.686008	1.48E-24	6.34E-24
MAGEA1	7.727154	1.153523	1.70E-24	7.23E-24
NOTUM	2.500238	0.140821	1.90E-24	8.07E-24
HS6ST3	2.852905	3.662466	2.13E-24	9.05E-24
TRPM5	3.701298	-1.51764	2.20E-24	9.34E-24
GPR37L1	2.184465	0.672291	2.21E-24	9.37E-24
RUNDC3A	3.175183	2.294861	2.23E-24	9.46E-24
LCN12	2.021355	1.528337	3.31E-24	1.39E-23
MCIDAS	2.697852	0.998195	3.64E-24	1.53E-23
EDN3	-2.40751	1.796303	3.82E-24	1.60E-23
CARD17	2.945071	-2.34191	3.84E-24	1.61E-23
CACNA1H	2.341861	5.357901	4.16E-24	1.74E-23
CDH12	-2.32869	-0.75703	4.47E-24	1.87E-23
CCDC185	2.81731	-2.18393	5.21E-24	2.17E-23
SYT1	2.959617	5.214852	5.51E-24	2.29E-23
ASCL2	2.064642	2.245907	5.81E-24	2.42E-23
HIST1H4B	4.616641	-1.51688	5.89E-24	2.45E-23
MYO3B	3.319089	2.637747	6.04E-24	2.51E-23
TUBA3D	2.883602	2.758526	6.09E-24	2.53E-23
HMGA2	2.615322	0.058416	6.47E-24	2.68E-23
SPACA4	2.049837	-1.51354	6.53E-24	2.71E-23
PLA2G4D	2.386169	-1.28199	6.64E-24	2.75E-23
GDPD2	2.854644	0.174935	6.86E-24	2.84E-23
DISP3	2.231959	0.891272	8.40E-24	3.47E-23
CCNO	2.44763	3.708139	8.46E-24	3.49E-23
CCL7	3.628211	-0.71552	9.06E-24	3.73E-23
CHST1	2.070774	4.592322	1.20E-23	4.93E-23
SYN1	2.086427	1.687107	1.56E-23	6.36E-23
IGFBPL1	2.452353	-0.79325	1.63E-23	6.63E-23
KCNJ16	-2.32141	1.292305	1.63E-23	6.65E-23
CCL20	2.48216	0.551569	2.07E-23	8.41E-23
MSMB	4.072211	4.452335	2.24E-23	9.08E-23
UNC5A	2.32862	3.130536	2.72E-23	1.10E-22
EFNA2	3.386618	-2.72679	3.22E-23	1.30E-22
C1orf189	2.063845	-1.69938	3.42E-23	1.38E-22
DNAJC12	2.081772	5.509275	4.21E-23	1.69E-22

SERPINB7	3.583655	1.209967	4.94E-23	1.97E-22
DOK7	2.315135	3.31554	5.06E-23	2.02E-22
PGA5	-2.26822	-3.80486	5.62E-23	2.24E-22
RNASE10	2.308737	-2.62326	6.02E-23	2.40E-22
ZPLD1	3.375835	1.757231	6.61E-23	2.63E-22
PRLH	2.905613	-3.17988	7.01E-23	2.78E-22
HIST1H2A	3.921592	-2.60248	7.78E-23	3.08E-22
PROZ	2.094638	-1.1128	8.12E-23	3.22E-22
KCNH6	3.882811	-0.75534	9.70E-23	3.83E-22
SMC1B	2.276076	1.094003	1.15E-22	4.51E-22
IFNB1	3.305391	-3.63581	1.16E-22	4.56E-22
LTB	2.168444	3.425821	1.19E-22	4.69E-22
CD1A	2.939667	0.865947	1.26E-22	4.94E-22
SHISA8	2.579922	-2.09559	1.31E-22	5.13E-22
KCNH2	2.326164	2.499384	1.61E-22	6.31E-22
NBPF4	3.176276	1.160052	1.67E-22	6.53E-22
USP41	2.634225	-1.66256	1.82E-22	7.10E-22
GDF9	2.963102	3.050188	1.96E-22	7.64E-22
TMPRSS6	2.528068	3.170353	1.97E-22	7.66E-22
CSAG3	5.611908	-1.68687	1.98E-22	7.69E-22
DYDC2	2.120505	0.202262	2.34E-22	9.07E-22
SCRT1	3.109617	-1.27773	2.34E-22	9.08E-22
IFNL1	2.951012	-2.46943	2.39E-22	9.25E-22
SRD5A2	2.28078	-0.28924	2.39E-22	9.25E-22
AGR2	2.420016	9.205924	2.66E-22	1.03E-21
HIST1H2B	4.36557	-2.48857	2.74E-22	1.06E-21
KPNA7	2.041635	-0.96397	2.83E-22	1.09E-21
ELFN2	2.795125	0.650823	2.92E-22	1.13E-21
C6orf222	3.50145	-2.79799	3.17E-22	1.22E-21
NPTX2	2.230443	2.13635	3.90E-22	1.50E-21
MEIKIN	2.153924	-3.78643	4.49E-22	1.72E-21
NBPF6	3.109129	0.594006	5.32E-22	2.03E-21
VIL1	3.530328	-0.26603	5.69E-22	2.16E-21
SCG2	2.808734	3.221998	5.71E-22	2.17E-21
NKX2-2	5.540519	0.069299	6.47E-22	2.46E-21
HSPB3	-3.28518	-2.14839	8.18E-22	3.10E-21
KRT75	4.214006	0.92758	8.49E-22	3.21E-21
SSTR2	2.05997	4.235463	9.89E-22	3.73E-21
OTOR	3.073801	-1.31205	1.00E-21	3.78E-21
TMEM171	2.180591	-0.80425	1.07E-21	4.03E-21
PRSS2	4.476105	1.579496	1.10E-21	4.15E-21
C1orf105	4.003383	-1.23024	1.16E-21	4.37E-21
TUBA3E	3.103228	0.937168	1.19E-21	4.47E-21
IL12B	2.092998	-1.48125	1.34E-21	5.04E-21
F2	3.917945	-1.9607	1.36E-21	5.10E-21
PYY	2.699766	0.229092	1.41E-21	5.30E-21
KIAA0319	2.423523	0.804536	1.59E-21	5.93E-21
GNG4	2.802729	3.469876	1.74E-21	6.49E-21
SPANXB1	6.912337	-0.08819	1.88E-21	7.02E-21
STMND1	2.364404	3.436819	2.12E-21	7.88E-21
C4orf50	2.280679	-2.33959	2.14E-21	7.96E-21
SERPINC1	2.217398	-0.98644	2.22E-21	8.24E-21
SEZ6L	3.489366	3.414592	2.27E-21	8.42E-21
ACSM2B	-2.00742	-3.22783	3.24E-21	1.20E-20
MAGEA12	7.987066	0.87827	3.32E-21	1.22E-20
POU3F2	4.084792	-0.37005	3.84E-21	1.41E-20
AC020636	3.102603	-2.97132	3.87E-21	1.42E-20
ZDHHC22	4.486436	-0.48603	4.06E-21	1.49E-20

ERVV-2	5.122983	-1.69067	4.08E-21	1.50E-20
MSLN	3.897977	4.781067	4.94E-21	1.81E-20
HIST2H3D	2.321431	-2.48601	5.01E-21	1.83E-20
GATA4	5.129863	0.696995	5.12E-21	1.87E-20
KRT1	5.505458	4.253401	5.37E-21	1.96E-20
TNIP3	2.150626	-0.2554	5.41E-21	1.98E-20
SERPINA9	2.637578	0.170177	6.27E-21	2.29E-20
SBK2	4.001367	-1.96385	6.81E-21	2.48E-20
A2ML1	3.476428	3.837956	7.22E-21	2.62E-20
CACNA1B	2.598125	0.22087	7.56E-21	2.75E-20
HIST1H4A	4.211213	-2.70321	7.75E-21	2.82E-20
DLL3	2.754759	-0.49224	8.08E-21	2.93E-20
NUPR2	2.003222	1.996447	8.16E-21	2.96E-20
LGALS9C	2.499236	-0.89579	8.80E-21	3.19E-20
SALL3	3.211463	-2.14729	8.81E-21	3.19E-20
WDR38	2.849409	-1.3012	9.35E-21	3.38E-20
CNGA2	5.351085	-1.33191	9.66E-21	3.49E-20
HORMAD	4.107243	1.868052	1.42E-20	5.10E-20
GPR26	4.59229	2.328105	1.42E-20	5.11E-20
TUBA4B	2.977835	-1.16951	1.43E-20	5.13E-20
LRG1	2.088164	5.608456	1.43E-20	5.14E-20
DRC7	2.433599	-1.58891	1.49E-20	5.35E-20
SLC8A2	2.6245	0.860823	1.76E-20	6.31E-20
S100A8	3.517055	6.227494	1.86E-20	6.64E-20
PAX1	2.909405	0.068649	2.03E-20	7.26E-20
CDH7	3.475974	1.028742	2.39E-20	8.50E-20
AARD	2.162435	5.900518	2.41E-20	8.60E-20
LHX1	5.878595	0.075297	2.73E-20	9.70E-20
POTEC	5.84078	0.121562	2.87E-20	1.02E-19
MGAT5B	2.15761	1.676849	3.29E-20	1.17E-19
SLC1A1	2.276856	5.600478	3.47E-20	1.23E-19
LGALS9B	2.79569	-1.12535	3.91E-20	1.38E-19
GPR158	2.398347	1.454555	4.00E-20	1.41E-19
HIST1H2B	4.077511	-2.75715	4.07E-20	1.44E-19
SBSN	4.635641	2.621577	4.16E-20	1.46E-19
GAL	2.552343	1.809781	4.30E-20	1.51E-19
FAM83A	2.853529	3.054543	4.56E-20	1.60E-19
TMEM82	3.834389	-2.28129	4.57E-20	1.61E-19
RXFP3	2.019309	-3.75032	4.78E-20	1.68E-19
HMX2	4.474978	-1.90723	5.09E-20	1.78E-19
GCNT3	2.819057	0.709963	5.22E-20	1.83E-19
ZP4	4.925001	-2.7165	5.60E-20	1.96E-19
FEZF2	-2.60413	-3.43683	5.96E-20	2.08E-19
ALG1L	2.117265	1.136777	8.25E-20	2.86E-19
HIST1H2A	3.534823	-2.0136	8.45E-20	2.93E-19
NEU4	2.937268	-0.11281	8.49E-20	2.94E-19
MUC5B	2.863035	6.542556	1.16E-19	4.00E-19
ASCL1	5.171426	2.57902	1.17E-19	4.02E-19
INA	3.775532	0.526016	1.27E-19	4.38E-19
NPHS1	2.639327	-1.47264	1.28E-19	4.40E-19
GABRA3	4.454342	0.168804	1.42E-19	4.89E-19
FCRL4	2.322354	-2.33375	1.45E-19	4.97E-19
CDK5R2	4.839684	-0.30833	1.63E-19	5.57E-19
KRT2	3.385676	-1.65022	1.75E-19	5.97E-19
PGLYRP4	3.7892	-0.86099	1.97E-19	6.72E-19
MT1H	3.045625	-0.74377	2.03E-19	6.93E-19
ACOD1	3.028295	-3.39035	2.04E-19	6.95E-19
TLX2	2.07689	-2.35881	2.11E-19	7.19E-19

EIF4E1B	4.395038	-1.28835	2.50E-19	8.47E-19
MUC19	4.01206	2.911984	2.51E-19	8.51E-19
HIST2H2A	2.596799	-4.12969	2.56E-19	8.69E-19
TFF3	2.589519	8.060259	2.59E-19	8.79E-19
PCSK1N	2.923046	2.23258	2.63E-19	8.91E-19
KCNF1	2.531694	3.144999	2.81E-19	9.52E-19
IL17C	2.601466	-3.05598	2.90E-19	9.82E-19
NKAIN4	2.13402	-1.23855	3.04E-19	1.03E-18
VMO1	2.021107	1.976221	3.27E-19	1.10E-18
BFSP2	2.067875	-0.99708	3.32E-19	1.12E-18
DYDC1	3.001654	-3.14409	3.50E-19	1.18E-18
LIN28A	5.27769	0.551149	3.68E-19	1.24E-18
KRT3	3.172733	-2.95661	3.79E-19	1.27E-18
PEX5L	2.738748	2.443951	3.94E-19	1.32E-18
PPBP	-2.08398	-2.8408	4.95E-19	1.65E-18
CLEC6A	2.72161	-2.53577	4.99E-19	1.67E-18
TMPRSS4	2.879213	3.083811	6.62E-19	2.20E-18
ZAN	2.322675	-1.4154	6.90E-19	2.29E-18
NIPAL4	2.209797	0.25041	7.28E-19	2.42E-18
TEX14	2.008098	2.251181	8.00E-19	2.65E-18
ZIC2	2.907226	1.277522	8.14E-19	2.70E-18
ZBBX	2.92	-1.48543	8.30E-19	2.75E-18
TUBA3C	4.733129	-1.6295	9.91E-19	3.27E-18
HPDL	2.012354	1.398995	1.01E-18	3.32E-18
CLEC3A	5.694597	7.750897	1.23E-18	4.05E-18
PAX2	2.514491	1.017955	1.24E-18	4.06E-18
ROBO2	2.693053	3.663858	1.50E-18	4.90E-18
SNTN	2.74631	-1.12489	1.50E-18	4.92E-18
NAT16	3.293584	-2.75795	1.53E-18	4.99E-18
PGK2	3.405468	-3.89883	1.83E-18	5.96E-18
AGR3	2.358555	6.806769	2.13E-18	6.94E-18
OTOG	3.962721	-2.60626	2.19E-18	7.12E-18
H3.Y	4.25287	-3.18935	2.30E-18	7.48E-18
C16orf92	2.249933	-3.4221	2.50E-18	8.12E-18
PAGE2	6.413692	-0.4659	2.53E-18	8.20E-18
TCL1B	4.871493	-2.09002	2.54E-18	8.22E-18
GABBR2	3.7426	1.403467	2.54E-18	8.22E-18
ROS1	3.858113	0.453367	3.09E-18	9.98E-18
NETO1	2.135079	0.165088	3.55E-18	1.14E-17
LRR1Q4	2.105105	-1.45528	3.85E-18	1.24E-17
CYP2A7	5.227184	4.468245	3.90E-18	1.25E-17
UTS2	2.119096	-1.71317	4.00E-18	1.29E-17
SIX3	3.017958	1.563237	4.33E-18	1.39E-17
SHISA9	2.094737	3.129477	5.22E-18	1.67E-17
DPYSL5	4.402219	1.087466	6.66E-18	2.12E-17
MS4A8	3.241124	1.038018	7.33E-18	2.33E-17
CSTL1	3.095144	-3.04785	7.36E-18	2.34E-17
CRP	6.287415	1.801064	7.76E-18	2.46E-17
STXBP5L	2.73782	-0.71253	7.80E-18	2.47E-17
CREB3L3	3.236693	-1.90861	9.78E-18	3.08E-17
APOA2	6.333878	0.247018	9.92E-18	3.12E-17
TMEM132	2.133977	0.707469	1.00E-17	3.15E-17
PSORS1C2	3.416535	0.111613	1.02E-17	3.19E-17
COL9A3	2.400374	4.017595	1.03E-17	3.23E-17
GNGT1	4.629993	-1.16421	1.11E-17	3.48E-17
ASIC5	3.581193	-3.72432	1.24E-17	3.88E-17
SLC5A5	2.45624	-0.21559	1.33E-17	4.16E-17
SEZ6	3.650396	1.435464	1.43E-17	4.47E-17

AMER3	5.087837	-0.7152	1.71E-17	5.31E-17
S100A9	2.809466	7.468036	1.79E-17	5.58E-17
MS4A6E	-2.25069	-2.64941	1.95E-17	6.06E-17
MMP12	2.492569	2.819589	2.00E-17	6.20E-17
CSAG2	4.601417	-2.55463	2.02E-17	6.27E-17
ASCL4	2.83397	-1.8923	2.06E-17	6.38E-17
CPLX2	6.388483	3.14647	2.11E-17	6.55E-17
IGF2BP3	2.628388	0.198093	2.17E-17	6.72E-17
FAM25A	4.282674	-0.93148	2.20E-17	6.81E-17
SLCO1B7	-3.23058	-2.05306	2.57E-17	7.94E-17
MKRN3	2.853537	0.599842	2.73E-17	8.42E-17
MALRD1	3.019641	2.731238	2.76E-17	8.52E-17
VTN	2.434876	1.419602	2.86E-17	8.82E-17
TCF24	3.096151	-1.82738	3.29E-17	1.01E-16
SHH	2.822906	-1.1974	3.75E-17	1.15E-16
PAQR9	-2.35612	-4.08613	3.97E-17	1.22E-16
CPB1	4.777572	10.69362	4.04E-17	1.24E-16
SLC1A6	4.065439	0.616088	4.13E-17	1.27E-16
GATA5	3.672406	0.280166	4.21E-17	1.29E-16
TGM3	2.306404	0.428361	4.33E-17	1.33E-16
GABRA1	7.020894	0.214215	4.60E-17	1.41E-16
SPTSSB	2.094368	4.81037	4.69E-17	1.43E-16
LHX9	3.610431	-1.34724	4.74E-17	1.45E-16
SERPINA1	2.300442	-0.13176	4.99E-17	1.52E-16
TGM4	3.833274	0.476471	5.21E-17	1.59E-16
COL6A5	2.507031	-1.68279	5.29E-17	1.61E-16
BPIFA2	5.224959	-1.82281	5.65E-17	1.72E-16
SOX2	3.320174	1.182208	6.25E-17	1.90E-16
SMIM32	3.456711	-2.48536	6.47E-17	1.96E-16
GLDC	2.46495	2.992193	6.68E-17	2.02E-16
FOXG1	4.237311	-1.76126	6.74E-17	2.04E-16
HUS1B	2.473014	-0.80719	6.79E-17	2.05E-16
AKAP14	3.099115	-2.19508	7.36E-17	2.23E-16
MAGEC2	6.632199	0.270483	7.46E-17	2.26E-16
SLITRK6	2.5708	6.412535	7.88E-17	2.38E-16
FMR1NB	4.707366	-1.70811	8.43E-17	2.54E-16
R3HDML	3.031807	-3.38009	8.56E-17	2.58E-16
C20orf85	5.485728	0.309577	8.67E-17	2.61E-16
PCDH10	3.422698	3.393046	1.01E-16	3.04E-16
BPIFB6	4.525964	-2.52233	1.14E-16	3.42E-16
SPIB	2.467704	2.641517	1.16E-16	3.47E-16
MT3	2.710547	-1.81198	1.18E-16	3.54E-16
NELL1	4.510236	1.469	1.40E-16	4.19E-16
LYPD8	2.715645	-0.0261	1.47E-16	4.37E-16
PAGE2B	4.297972	-1.61386	1.57E-16	4.68E-16
MAP3K19	2.123954	-0.9378	1.76E-16	5.23E-16
ACP7	2.722898	-1.18277	1.80E-16	5.35E-16
CXCL17	2.64979	4.771038	1.83E-16	5.44E-16
TUBB4A	2.37797	0.977187	1.90E-16	5.65E-16
UPK1A	2.651719	0.949297	2.16E-16	6.39E-16
NCAN	4.715008	2.618954	2.26E-16	6.69E-16
CSMD3	4.769214	1.27942	2.37E-16	7.01E-16
ERVV-1	3.155763	-2.0086	2.45E-16	7.23E-16
IVL	4.032711	0.373809	2.56E-16	7.55E-16
FADS6	3.189762	-1.59707	2.57E-16	7.58E-16
IDO1	2.050086	4.257881	2.73E-16	8.04E-16
HTR1E	3.634567	-2.47608	2.77E-16	8.16E-16
COL2A1	3.346116	6.232455	2.83E-16	8.33E-16

CRISP3	4.00061	6.099751	3.46E-16	1.01E-15
CCDC60	3.431419	-1.18571	3.82E-16	1.12E-15
MEPE	3.98478	0.106599	4.53E-16	1.32E-15
CFAP65	2.072646	0.015974	4.53E-16	1.32E-15
CDSN	2.710714	-0.37473	4.89E-16	1.42E-15
FAM135B	2.560724	1.699938	4.92E-16	1.43E-15
CCKBR	4.028606	0.173572	5.31E-16	1.54E-15
MAGEA3	7.572756	2.063555	5.44E-16	1.58E-15
NTNG1	2.79352	2.247918	6.65E-16	1.92E-15
PRMT8	2.587674	-1.42636	6.92E-16	2.00E-15
C1orf167	2.538542	-0.88114	7.00E-16	2.02E-15
REG4	2.403576	-2.37502	7.32E-16	2.11E-15
NFE4	4.288984	0.7631	8.46E-16	2.43E-15
TPSG1	2.465678	1.904799	8.68E-16	2.49E-15
PADI3	2.871546	1.462464	8.69E-16	2.50E-15
LOR	5.38752	0.53909	1.09E-15	3.12E-15
UCN3	9.005971	2.120453	1.14E-15	3.26E-15
ADAMTS1	2.287075	1.223499	1.22E-15	3.48E-15
ACTL6B	4.288509	-1.00903	1.24E-15	3.55E-15
NLRP7	2.370268	-0.71987	1.25E-15	3.56E-15
FTHL17	7.645274	-1.13283	1.25E-15	3.58E-15
KRT20	5.631552	1.132591	1.31E-15	3.74E-15
COL9A1	3.685079	1.661324	1.37E-15	3.91E-15
CCDC196	2.962036	-0.38671	1.38E-15	3.92E-15
APOBEC4	3.628047	-2.33638	1.46E-15	4.15E-15
TFF1	2.879235	7.680805	1.51E-15	4.29E-15
EN1	2.217289	3.911541	1.66E-15	4.71E-15
MUC13	3.072501	0.343766	1.76E-15	4.99E-15
TMEM179	3.295988	0.579501	1.83E-15	5.19E-15
SLC5A8	3.959737	3.429505	1.85E-15	5.24E-15
SLC22A24	3.627102	-3.28069	1.97E-15	5.56E-15
SLC18A1	2.776561	-1.42264	2.21E-15	6.24E-15
COX7B2	6.462731	-2.02304	2.22E-15	6.25E-15
OLFM3	6.052916	0.550727	2.22E-15	6.28E-15
ZFP42	4.903483	0.191324	2.41E-15	6.78E-15
CHGB	4.766122	6.772895	2.41E-15	6.78E-15
HYPM	2.718856	-4.26014	2.70E-15	7.58E-15
KCNG1	2.335049	2.518409	2.91E-15	8.17E-15
CYP2F1	3.361605	-1.88985	2.96E-15	8.31E-15
KLHL1	7.607151	1.417001	3.09E-15	8.67E-15
C4orf51	2.73067	-2.44552	3.24E-15	9.07E-15
PSCA	2.357395	3.635297	3.29E-15	9.22E-15
NOTO	-2.04946	-3.47323	3.33E-15	9.33E-15
TLX3	5.609601	-1.88047	3.41E-15	9.56E-15
SOHLH1	3.689673	-1.95038	4.10E-15	1.14E-14
GTSF1	2.02309	0.464135	4.31E-15	1.20E-14
CTNNA2	3.223179	0.195509	4.33E-15	1.21E-14
GRIA2	3.342337	4.568821	4.44E-15	1.24E-14
ELAVL3	3.2612	-0.75769	4.58E-15	1.27E-14
CHGA	5.048874	6.269212	4.87E-15	1.36E-14
NGB	2.959317	-2.23827	4.96E-15	1.38E-14
MUC5AC	4.653471	3.186652	4.97E-15	1.38E-14
NXPH1	4.057558	2.903742	4.98E-15	1.38E-14
OTP	2.490506	-3.32185	5.40E-15	1.50E-14
FAM216B	2.827581	-2.3855	5.47E-15	1.52E-14
HSD3B2	5.076903	0.981055	5.64E-15	1.56E-14
STRA8	4.158305	-1.36774	5.68E-15	1.57E-14
GCGR	2.606849	-2.34085	5.77E-15	1.60E-14

LRRC24	2.350393	-4.26774	5.81E-15	1.61E-14
GPR139	3.913221	-1.25419	6.23E-15	1.72E-14
CLRN1	2.679999	-3.45068	6.34E-15	1.75E-14
SLC38A8	2.692275	-2.9166	6.44E-15	1.78E-14
CYP2W1	2.537755	-2.15751	6.84E-15	1.89E-14
POTEJ	2.574199	-1.71451	6.99E-15	1.93E-14
CTXN2	2.062774	-3.92033	7.70E-15	2.12E-14
RIMS2	2.268399	2.148343	8.54E-15	2.34E-14
SLIT1	2.401612	2.539083	1.02E-14	2.79E-14
SLURP1	2.903519	-0.59218	1.40E-14	3.80E-14
PAH	2.356389	1.137361	1.41E-14	3.82E-14
POTEI	2.07945	-0.07983	1.46E-14	3.96E-14
MAGEA8	2.584784	-0.53969	1.65E-14	4.46E-14
POU4F3	2.336178	-2.01898	1.71E-14	4.62E-14
ARL14	2.913111	-2.89402	1.79E-14	4.82E-14
PLA2G2F	2.672283	-2.85881	2.01E-14	5.42E-14
TCHHL1	5.288273	-2.37026	2.08E-14	5.60E-14
ASZ1	4.284757	-3.18097	2.15E-14	5.78E-14
TRIML2	2.612706	-2.29887	2.50E-14	6.71E-14
GPR22	2.675543	-1.99642	2.54E-14	6.82E-14
STAR	2.61577	1.553511	2.78E-14	7.43E-14
LHX3	4.135084	-3.59798	2.88E-14	7.70E-14
GP2	2.670881	5.47303	2.95E-14	7.87E-14
ISL2	2.448844	-1.96917	3.46E-14	9.23E-14
NDST4	4.68079	0.477367	3.49E-14	9.29E-14
UNC93A	3.198061	-2.92243	3.57E-14	9.52E-14
HIST1H4L	4.692559	-3.47921	4.38E-14	1.16E-13
BARX1	2.443575	0.900163	4.51E-14	1.20E-13
CYP19A1	2.703434	2.141996	4.88E-14	1.29E-13
TTR	3.619475	-1.40158	4.95E-14	1.31E-13
KNG1	3.478696	-2.38725	5.04E-14	1.33E-13
MLC1	2.400013	1.60491	5.05E-14	1.34E-13
DMRT1	3.501493	-1.98626	5.13E-14	1.36E-13
MAGEA6	6.924947	1.88086	5.50E-14	1.45E-13
PDX1	4.644547	-2.82898	5.98E-14	1.58E-13
MAGEC1	4.007498	-0.30937	6.39E-14	1.68E-13
DSPP	2.971151	-3.58909	6.47E-14	1.70E-13
NCCRP1	2.269842	4.023125	6.53E-14	1.72E-13
TRIM67	2.270128	0.510452	6.77E-14	1.78E-13
RAD21L1	3.475456	-1.66801	6.90E-14	1.81E-13
SYT9	2.039469	3.310923	6.97E-14	1.83E-13
POU5F2	2.5975	-1.36639	7.31E-14	1.92E-13
RGS7	2.133928	-0.5444	7.65E-14	2.00E-13
ADGRF2	2.24806	-2.68285	7.97E-14	2.08E-13
TBX10	4.132265	0.33482	8.07E-14	2.11E-13
ADAM18	4.080426	-3.26651	8.45E-14	2.20E-13
PAGE5	4.003078	-1.51533	9.24E-14	2.41E-13
VCX3A	5.169045	-1.61113	1.02E-13	2.65E-13
HTR3A	2.650079	-0.63515	1.15E-13	2.97E-13
HRH3	2.976999	-1.88855	1.23E-13	3.19E-13
KRTAP5-6	2.116098	-4.29384	1.25E-13	3.22E-13
CALY	2.106565	-1.72963	1.25E-13	3.23E-13
ZMAT4	2.132155	1.127246	1.27E-13	3.27E-13
TRPM8	2.605224	0.655984	1.29E-13	3.32E-13
PRSS1	3.727081	0.036466	1.30E-13	3.36E-13
S100G	4.693831	1.037914	1.36E-13	3.49E-13
CALML5	2.64592	6.308589	1.36E-13	3.51E-13
PGLYRP2	2.196118	2.983816	1.40E-13	3.60E-13

COL11A2	2.256262	3.110764	1.50E-13	3.86E-13
APCS	7.412083	-1.40312	1.54E-13	3.96E-13
HIST1H3A	2.026295	-2.20963	1.60E-13	4.11E-13
DMRTA2	3.01959	-1.98405	1.61E-13	4.13E-13
KIRREL2	2.171386	-0.50503	1.69E-13	4.34E-13
HIST2H2A	2.135648	-4.25092	1.86E-13	4.75E-13
KRT34	4.335308	-2.68235	1.88E-13	4.80E-13
PADI1	2.184696	-2.02051	2.08E-13	5.31E-13
IGSF23	2.304379	-2.09111	2.19E-13	5.59E-13
FOXA3	2.211138	0.265902	2.27E-13	5.77E-13
CNGA3	2.163246	0.159172	2.47E-13	6.27E-13
SLC24A5	2.032393	-4.13187	2.56E-13	6.50E-13
ANKRD30	2.217259	3.588833	2.67E-13	6.76E-13
NPBWR1	2.967368	-2.78864	2.69E-13	6.82E-13
CYP2A6	3.536676	5.695062	2.81E-13	7.10E-13
CACNG2	-2.26019	-3.01344	3.61E-13	9.10E-13
DKK1	2.14426	2.712381	4.13E-13	1.04E-12
IL36RN	3.025996	-1.73122	4.23E-13	1.06E-12
GFY	3.150413	-2.43775	4.36E-13	1.09E-12
CEACAM7	2.003051	0.153455	4.67E-13	1.17E-12
AMTN	3.577931	0.073659	4.92E-13	1.23E-12
CRCT1	5.821635	-1.95702	5.26E-13	1.31E-12
TBR1	3.00858	-2.12992	5.93E-13	1.48E-12
CRISP1	3.323813	-2.78915	6.06E-13	1.51E-12
PIH1D3	2.329767	-3.12612	6.15E-13	1.53E-12
MAGEA10	5.428436	-0.63997	6.21E-13	1.55E-12
KRTDAP	3.355431	1.586462	6.67E-13	1.66E-12
GAGE2A	6.026063	-2.60079	6.98E-13	1.73E-12
ITLN2	3.098587	-2.81992	7.41E-13	1.84E-12
OR1F1	3.494489	-3.60842	7.68E-13	1.91E-12
VSTM2A	4.002446	4.666452	8.53E-13	2.11E-12
LRR31	2.386133	2.658406	8.84E-13	2.18E-12
PBOV1	2.25284	-2.51959	8.96E-13	2.21E-12
GIP	3.308002	-3.25361	9.45E-13	2.33E-12
C2CD4A	2.228979	2.491388	9.96E-13	2.46E-12
PAGE1	6.780474	-1.08798	9.98E-13	2.46E-12
KCNJ4	2.866197	-3.0156	1.04E-12	2.56E-12
SP7	3.238022	-0.83529	1.04E-12	2.56E-12
GPR52	2.574934	-3.38217	1.06E-12	2.60E-12
PRR20G	3.073396	-4.23243	1.07E-12	2.63E-12
MAGEA11	3.552333	-1.48503	1.07E-12	2.64E-12
FIBCD1	2.006529	1.782798	1.08E-12	2.66E-12
CDHR4	2.26701	-0.38062	1.12E-12	2.76E-12
SLC4A10	2.414247	1.161986	1.15E-12	2.82E-12
C10orf82	2.207663	2.446818	1.18E-12	2.90E-12
INS	5.859367	-2.37369	1.27E-12	3.11E-12
BEX1	2.809056	3.763268	1.33E-12	3.25E-12
KRT35	3.576523	-2.51073	1.35E-12	3.31E-12
DCAF8L2	4.533231	-3.01323	1.42E-12	3.46E-12
HIST1H1A	3.798226	-3.28943	1.44E-12	3.52E-12
ZIC1	2.427044	2.06606	1.49E-12	3.64E-12
FAM163B	2.594739	-3.12105	1.61E-12	3.93E-12
SVOP	3.387629	-1.19317	1.79E-12	4.36E-12
IFITM5	3.479247	-1.15535	1.81E-12	4.38E-12
NTSR1	2.012504	-1.03623	1.98E-12	4.80E-12
AC011604	-2.75024	-1.53121	2.27E-12	5.49E-12
SSX1	5.885391	-0.60387	2.29E-12	5.55E-12
LRR53	4.818991	-1.08274	2.45E-12	5.91E-12

LCE2B	5.814375	-2.83675	2.81E-12	6.75E-12
TRIM15	2.811346	-2.74485	2.91E-12	6.98E-12
PDCL2	3.647896	-3.92555	3.01E-12	7.22E-12
VCX	3.392676	-2.23075	3.10E-12	7.42E-12
CT45A10	5.1349	-2.93127	3.11E-12	7.44E-12
CDH18	3.198467	-0.57428	3.12E-12	7.48E-12
MC5R	2.546246	-2.87253	3.21E-12	7.69E-12
GAGE1	5.512411	-2.7929	3.30E-12	7.89E-12
PNMT	2.522638	3.498194	3.46E-12	8.26E-12
PRR27	6.120527	1.279484	4.04E-12	9.64E-12
CYP2A13	3.402202	-1.18863	4.15E-12	9.88E-12
RNF113B	2.7134	-3.38561	4.26E-12	1.01E-11
LPO	2.017796	-0.29948	4.30E-12	1.02E-11
LYZL2	2.610795	-2.58139	4.34E-12	1.03E-11
SCN1A	3.307345	0.006615	4.75E-12	1.13E-11
UGT2B4	3.835731	3.018688	4.79E-12	1.14E-11
TM4SF5	4.309389	-3.05573	4.97E-12	1.18E-11
TEKT1	2.1638	-0.69256	5.15E-12	1.22E-11
B4GALNT2	2.354786	2.405301	5.16E-12	1.22E-11
C12orf56	2.321232	-1.19798	5.26E-12	1.25E-11
PGLYRP3	3.971367	-2.26747	5.42E-12	1.28E-11
MAGEA4	5.81752	2.118444	5.51E-12	1.30E-11
SULT1C3	-3.19567	2.182721	5.51E-12	1.30E-11
CARTPT	6.840315	7.056428	5.97E-12	1.41E-11
TACR3	2.161607	-2.14563	6.37E-12	1.50E-11
DLX6	2.36817	-0.45346	6.49E-12	1.53E-11
ALPP	3.387925	-3.02256	6.72E-12	1.58E-11
NEUROD1	5.859171	-1.63518	7.07E-12	1.66E-11
SYT14	2.089277	-0.17636	7.21E-12	1.69E-11
CST9L	3.119166	-1.22455	7.65E-12	1.79E-11
LCE1B	5.370817	-2.66133	8.46E-12	1.98E-11
GABRG2	5.420925	-0.39143	8.85E-12	2.07E-11
CROCC2	2.103704	-1.00284	8.99E-12	2.10E-11
IAPP	6.682913	-0.95855	1.02E-11	2.39E-11
SFTPA1	-2.06951	-1.7364	1.12E-11	2.60E-11
BPIFB4	3.534434	-1.61249	1.14E-11	2.65E-11
C7orf33	3.303528	-3.83951	1.15E-11	2.67E-11
POU4F1	3.227035	-1.07279	1.17E-11	2.71E-11
IL21	2.34446	-3.77376	1.24E-11	2.88E-11
VWC2L	2.699952	-2.69309	1.26E-11	2.93E-11
HDC	2.174354	3.557256	1.32E-11	3.05E-11
LHFPL4	2.517206	-0.3115	1.47E-11	3.38E-11
LCE1A	5.525357	-2.97482	1.49E-11	3.44E-11
PNMA5	2.681739	-0.63307	1.68E-11	3.88E-11
ATP2B3	2.314538	-2.04057	1.69E-11	3.89E-11
DCD	5.149144	6.371972	2.03E-11	4.64E-11
PSG9	3.019244	-1.70787	2.03E-11	4.66E-11
PRSS33	3.850578	0.861833	2.05E-11	4.70E-11
PRDM13	3.94361	-2.2641	2.07E-11	4.73E-11
SSTR5	3.002245	-2.8044	2.11E-11	4.83E-11
RAX	2.45613	-3.87392	2.20E-11	5.04E-11
HIST2H3C	3.651183	-3.60699	2.32E-11	5.31E-11
SPAG6	2.457988	2.657178	2.40E-11	5.48E-11
DLX2	2.123559	1.749633	2.61E-11	5.94E-11
DCAF4L2	5.516693	-1.41917	2.67E-11	6.08E-11
CACNG5	2.469173	-4.20725	2.68E-11	6.10E-11
GHSR	4.238559	-2.95521	2.97E-11	6.74E-11
TAAR6	4.65592	-3.71928	3.01E-11	6.83E-11

WNT7A	2.257825	-2.10387	3.09E-11	7.01E-11
KRT81	2.387085	6.369136	3.14E-11	7.11E-11
S100A7A	4.574777	3.249895	3.43E-11	7.75E-11
SPRR2F	-2.07911	-3.29481	3.43E-11	7.76E-11
REG1A	5.886154	-1.4178	3.58E-11	8.09E-11
CSH2	3.816928	-3.90937	3.70E-11	8.35E-11
C11orf86	3.484172	-1.0921	3.91E-11	8.82E-11
KRTAP3-1	2.402976	-3.25769	3.91E-11	8.82E-11
C1orf68	5.283632	-2.78491	4.19E-11	9.44E-11
SPERT	2.420584	-2.1319	4.25E-11	9.56E-11
CHRNA4	2.929472	-1.50873	4.26E-11	9.57E-11
LYPD4	2.623047	-2.6736	4.39E-11	9.87E-11
CXorf67	3.541778	-1.48905	4.82E-11	1.08E-10
VAX1	3.78344	-1.92864	4.89E-11	1.10E-10
ZFR2	2.08733	-0.43108	4.93E-11	1.10E-10
CT45A1	5.70252	-2.27844	4.99E-11	1.12E-10
EBLN1	3.37661	-2.84698	5.13E-11	1.15E-10
TEX15	3.296126	-0.95865	5.47E-11	1.22E-10
GSTA3	2.693071	-0.87361	5.50E-11	1.23E-10
ZIC3	3.095025	-2.42921	5.82E-11	1.30E-10
FCAMR	2.401702	-1.07947	6.27E-11	1.40E-10
ALPI	3.874795	-3.63273	6.28E-11	1.40E-10
SPO11	4.043066	-3.85473	6.47E-11	1.44E-10
FAM71C	2.148085	-3.15332	6.78E-11	1.51E-10
HIST1H4F	3.624329	-3.52883	6.88E-11	1.53E-10
NKX2-5	2.896664	0.043552	7.08E-11	1.57E-10
BPIFA1	5.857075	1.744849	7.58E-11	1.68E-10
LCE1F	4.907549	-3.4222	8.42E-11	1.86E-10
WFDC13	2.11373	-3.02324	8.51E-11	1.88E-10
UGT2B28	-2.06404	2.811023	8.77E-11	1.94E-10
FGF3	3.26457	-3.3092	1.01E-10	2.22E-10
NKX2-3	3.134025	-2.44309	1.04E-10	2.30E-10
DMRTC2	2.626347	-1.31377	1.05E-10	2.31E-10
C10orf113	2.458834	-2.87351	1.13E-10	2.49E-10
CFC1	3.664233	-4.01161	1.15E-10	2.52E-10
HTN1	5.763218	-1.09217	1.20E-10	2.63E-10
APOC3	5.035754	-1.17757	1.47E-10	3.22E-10
SLC5A12	2.251014	-0.84009	1.63E-10	3.54E-10
ZIC5	3.020001	-0.68062	1.71E-10	3.73E-10
KNCN	2.697199	-4.12294	1.98E-10	4.29E-10
SP8	3.744022	-3.43186	2.05E-10	4.46E-10
IRS4	3.780069	1.485725	2.14E-10	4.63E-10
F13B	2.195475	-4.24987	2.20E-10	4.76E-10
TEX13B	2.62567	-4.05966	2.66E-10	5.74E-10
C6orf118	2.467202	-2.55866	2.69E-10	5.81E-10
LIN28B	4.222221	-2.19413	2.71E-10	5.85E-10
PNLIP	3.659868	-3.46276	2.73E-10	5.87E-10
KRT31	2.311958	0.047559	2.78E-10	5.99E-10
C1orf158	2.406968	-2.31442	2.98E-10	6.42E-10
NEUROD4	5.247797	-2.14318	3.02E-10	6.50E-10
LCE2C	4.871353	-3.3903	3.05E-10	6.56E-10
LCE2D	4.439109	-3.69979	3.30E-10	7.07E-10
KRT24	2.878527	-0.31601	3.32E-10	7.12E-10
FAM9C	3.262892	-0.42475	3.47E-10	7.44E-10
SLC15A1	2.215577	1.569582	3.57E-10	7.64E-10
CCDC172	4.963663	-2.4776	3.57E-10	7.65E-10
TAS2R30	2.421413	-2.32766	3.57E-10	7.65E-10
KLK12	3.119531	1.51658	3.58E-10	7.66E-10

CNMD	3.218509	0.08786	3.70E-10	7.90E-10
MAGEB16	4.320112	-3.3023	3.70E-10	7.90E-10
AHSG	3.6493	-2.61376	3.85E-10	8.22E-10
NR5A1	2.88411	-1.04318	4.07E-10	8.68E-10
PNMA6E	4.518933	-2.61358	4.41E-10	9.38E-10
RTP3	3.654448	-1.88889	5.03E-10	1.07E-09
RAET1L	2.014953	-0.57739	5.13E-10	1.09E-09
CLEC2A	2.97965	-4.03748	5.51E-10	1.17E-09
EDDM3B	2.444454	-1.3011	5.57E-10	1.18E-09
ECEL1	2.071967	3.23265	5.67E-10	1.20E-09
FGF4	5.97416	0.310487	5.89E-10	1.25E-09
SLC17A8	2.35774	-2.52645	6.20E-10	1.31E-09
PLG	2.796516	-2.74322	6.91E-10	1.46E-09
FEZF1	2.472607	-3.00263	7.12E-10	1.50E-09
SORCS3	2.156078	-1.15952	7.33E-10	1.54E-09
KPRP	4.56888	-2.33943	7.59E-10	1.60E-09
SERPINB4	4.240262	0.606253	7.66E-10	1.61E-09
GNAT3	4.960642	-0.1627	7.70E-10	1.62E-09
CLVS2	3.354696	0.995887	8.30E-10	1.74E-09
APOA5	2.17815	-3.27876	8.44E-10	1.77E-09
C7orf77	2.316846	-3.68752	8.67E-10	1.82E-09
NEUROD2	2.32313	-1.00027	8.82E-10	1.85E-09
WDR72	2.166225	2.491035	9.11E-10	1.91E-09
KRTAP17-	2.311936	-3.73661	9.36E-10	1.96E-09
CPA6	2.025142	1.786509	9.36E-10	1.96E-09
VRTN	3.351867	-1.95705	9.56E-10	2.00E-09
FGF21	3.44715	-3.06474	9.86E-10	2.06E-09
ZG16	2.304809	-2.38828	9.95E-10	2.08E-09
PRSS41	3.575717	-1.95043	1.02E-09	2.12E-09
PRR35	2.062252	-3.914	1.02E-09	2.12E-09
TPH2	2.257108	-3.15681	1.03E-09	2.15E-09
OLIG2	2.481141	-3.49148	1.07E-09	2.24E-09
OR56A3	3.686634	-2.95139	1.22E-09	2.52E-09
CFHR4	3.194332	-3.3929	1.32E-09	2.72E-09
NEUROG3	2.440462	-2.22321	1.34E-09	2.78E-09
GCG	5.093261	-2.12637	1.39E-09	2.86E-09
SCRT2	3.397136	-3.57825	1.40E-09	2.89E-09
DEFB126	3.561161	-3.62355	1.45E-09	2.98E-09
C8A	4.272929	-2.93231	1.46E-09	3.00E-09
GSTA2	2.234463	-1.28932	1.48E-09	3.05E-09
WFDC6	2.276946	-0.92915	1.81E-09	3.71E-09
MAB21L2	2.202982	-1.64804	1.87E-09	3.83E-09
WFDC10A	2.685885	-3.93285	2.06E-09	4.21E-09
APOBEC1	2.551192	-4.13261	2.06E-09	4.22E-09
CT83	4.690297	0.407635	2.10E-09	4.30E-09
HS3ST6	2.231256	-1.13722	2.16E-09	4.41E-09
PAX7	3.090412	1.601566	2.50E-09	5.10E-09
CCDC175	2.0182	-2.81547	2.55E-09	5.20E-09
FGG	3.737674	4.025224	2.65E-09	5.38E-09
GC	5.024375	-1.42788	2.70E-09	5.48E-09
TBX20	2.315971	-1.54802	2.85E-09	5.78E-09
ZNF716	3.058969	-2.43609	3.32E-09	6.70E-09
BRINP3	3.079987	3.41945	3.40E-09	6.86E-09
ZNF280A	2.547133	-3.03238	3.57E-09	7.20E-09
PCSK2	2.886928	1.472222	3.73E-09	7.51E-09
GPR6	2.802823	-2.63695	3.80E-09	7.66E-09
MAGEB2	3.603251	-1.44152	3.97E-09	7.98E-09
S100A7	3.054471	5.924361	4.00E-09	8.05E-09

TAGLN3	2.258155	-1.46013	4.05E-09	8.13E-09
LCE2A	3.579979	-4.12883	4.52E-09	9.06E-09
SYT4	4.22055	1.026118	4.79E-09	9.59E-09
OLIG1	2.13041	-1.09533	4.91E-09	9.82E-09
MOG	2.620293	-1.23428	4.98E-09	9.96E-09
XAGE2	4.287615	-0.21577	5.04E-09	1.01E-08
LHX5	2.325732	-3.07223	5.85E-09	1.16E-08
HMX3	2.69134	-2.66943	5.94E-09	1.18E-08
SLITRK1	2.724323	0.198155	6.65E-09	1.32E-08
FGL1	2.455858	1.34951	6.84E-09	1.36E-08
UGT2A1	3.823858	-3.13745	6.85E-09	1.36E-08
SLC18A3	3.647598	-3.58764	7.33E-09	1.45E-08
AMELX	3.935246	-3.43702	7.45E-09	1.47E-08
FSTL5	2.689426	-1.81677	8.18E-09	1.61E-08
KRT38	2.559077	-3.48221	8.19E-09	1.61E-08
AMER2	2.742757	-0.92659	8.20E-09	1.62E-08
KRTAP9-4	3.703001	-4.04538	8.53E-09	1.68E-08
CAMKV	2.08236	-1.29712	9.62E-09	1.89E-08
OCSTAMF	2.06251	-3.16288	1.02E-08	1.99E-08
KLK14	2.037884	3.211837	1.05E-08	2.05E-08
SOX3	2.551795	-2.6768	1.06E-08	2.08E-08
SEMG2	3.890944	-2.8878	1.08E-08	2.11E-08
SLC6A19	2.161671	-4.18282	1.09E-08	2.14E-08
CTSE	2.24635	-0.28556	1.12E-08	2.19E-08
C9	2.455511	-2.07965	1.13E-08	2.21E-08
HAO1	3.32886	-2.13388	1.14E-08	2.22E-08
NPY	3.379172	-0.79489	1.17E-08	2.28E-08
KRTAP21-	2.571928	-4.23904	1.17E-08	2.29E-08
LY6L	4.009446	-3.10507	1.18E-08	2.30E-08
OR4B1	3.701458	-4.13754	1.18E-08	2.31E-08
ANKRD66	2.175563	-3.35044	1.22E-08	2.38E-08
AQP12B	2.962718	-4.21632	1.24E-08	2.41E-08
MYT1L	2.103189	-1.90009	1.24E-08	2.41E-08
CCDC198	2.337703	-3.38272	1.24E-08	2.42E-08
AMY2A	2.79267	-2.28963	1.30E-08	2.53E-08
TGIF2LX	3.167323	-4.15442	1.42E-08	2.75E-08
CNTN5	2.091865	-0.57702	1.85E-08	3.57E-08
KRTAP4-1	3.225108	-3.66068	1.87E-08	3.60E-08
RTL1	3.045205	-1.61228	1.87E-08	3.61E-08
KCNQ2	2.104757	-0.84198	2.11E-08	4.05E-08
CST9	2.581039	3.867071	2.16E-08	4.15E-08
KCNK16	2.941388	-3.07611	2.23E-08	4.28E-08
RHCG	2.003424	2.378709	2.31E-08	4.43E-08
BPIFB3	4.351127	-2.87758	2.36E-08	4.52E-08
PRB1	3.345022	-3.82842	2.38E-08	4.55E-08
CA10	2.91848	-0.72219	2.38E-08	4.56E-08
PHGR1	2.015522	1.159161	2.57E-08	4.92E-08
MAGEA9	3.482737	-4.02184	2.60E-08	4.96E-08
LCE3D	3.844376	-3.63821	2.61E-08	4.99E-08
C3orf30	2.331036	-4.1429	2.67E-08	5.10E-08
SMR3B	4.830464	5.659485	2.69E-08	5.13E-08
GABRR3	2.247062	-3.62197	2.75E-08	5.24E-08
BPIFB2	2.060969	4.448768	2.79E-08	5.31E-08
GHRH	2.286762	-0.72718	2.80E-08	5.34E-08
FDCSP	2.602188	7.436402	2.84E-08	5.40E-08
TPTE	3.279638	-3.87027	2.96E-08	5.63E-08
ELSPBP1	2.912814	-4.12609	3.11E-08	5.92E-08
PSAPL1	3.797654	-1.0496	3.33E-08	6.32E-08

DEFB4A	3.561148	-3.997	3.40E-08	6.45E-08
LCE6A	4.056468	-3.68221	3.53E-08	6.69E-08
KRT6A	2.332192	5.372303	3.72E-08	7.04E-08
LCE1D	3.712851	-3.98352	3.93E-08	7.41E-08
SCGB1D4	3.509763	-3.27259	3.99E-08	7.54E-08
SSX3	3.886029	-3.32712	4.62E-08	8.69E-08
EFCAB3	2.399186	-3.1718	4.91E-08	9.20E-08
OR52E8	2.273306	-4.00368	5.98E-08	1.12E-07
LCE5A	3.006936	-3.69617	5.99E-08	1.12E-07
APOH	3.918337	-1.90804	6.22E-08	1.16E-07
KCNJ18	2.719611	-3.68455	6.28E-08	1.17E-07
DPPA2	3.445551	-3.7518	6.55E-08	1.22E-07
DDX53	3.134306	-3.37316	6.82E-08	1.27E-07
SPANXC	3.481813	-3.08947	7.02E-08	1.30E-07
SPACA7	2.666876	-4.2686	7.89E-08	1.46E-07
CRNN	3.878423	-2.07494	8.07E-08	1.49E-07
FGF23	3.314003	-3.39646	8.32E-08	1.54E-07
LRTM1	2.321523	-3.8665	8.47E-08	1.56E-07
C2orf78	2.977967	-3.81155	8.93E-08	1.65E-07
OR52E6	2.523201	-4.05801	1.01E-07	1.85E-07
RLBP1	2.210583	-1.39348	1.02E-07	1.87E-07
HELT	2.584974	-4.19162	1.08E-07	1.99E-07
C1orf141	2.467233	-4.0497	1.14E-07	2.09E-07
FGB	3.212131	4.295909	1.15E-07	2.11E-07
MUC21	2.524418	-0.92659	1.27E-07	2.32E-07
ZPBP2	2.29397	-2.95157	1.29E-07	2.36E-07
CHRN3	2.14319	-4.17012	1.32E-07	2.41E-07
PRB2	2.285564	-3.39611	1.35E-07	2.46E-07
DMBT1	2.090419	2.622626	1.48E-07	2.68E-07
ZNF560	2.164966	-1.73256	1.53E-07	2.78E-07
KRT78	2.416916	-1.87271	1.55E-07	2.82E-07
ALPG	2.132763	-4.23581	1.56E-07	2.83E-07
BARHL2	2.523352	-3.77602	1.82E-07	3.29E-07
CPN1	2.980899	-3.9245	2.08E-07	3.75E-07
PSG11	3.665926	-2.96674	2.58E-07	4.63E-07
CST11	2.092988	-3.54096	2.70E-07	4.84E-07
11-Mar	2.189896	-0.8615	2.72E-07	4.87E-07
HRG	2.281917	-3.71576	2.73E-07	4.88E-07
FLG2	2.587002	-1.31194	2.75E-07	4.93E-07
HTR2C	2.528112	-2.28278	2.97E-07	5.30E-07
C6orf15	2.059105	2.104214	2.97E-07	5.31E-07
PROKR2	2.628546	-2.86043	3.17E-07	5.65E-07
SPANXD	2.951506	-4.19905	3.18E-07	5.67E-07
FAM9A	2.58929	-4.17594	3.23E-07	5.75E-07
MAGEB10	2.800609	-4.27232	3.27E-07	5.83E-07
PRB4	2.493224	-3.89738	3.60E-07	6.40E-07
KRT6C	2.24549	1.527649	3.84E-07	6.82E-07
C1orf94	2.653798	-2.18215	3.86E-07	6.84E-07
TMEM229	2.655111	-3.33628	3.92E-07	6.94E-07
ADAM7	3.077513	-3.6395	4.13E-07	7.30E-07
GLYATL3	3.742237	-0.91159	4.30E-07	7.59E-07
RALYL	2.518642	-1.16244	4.50E-07	7.94E-07
FGA	3.897568	3.471935	4.54E-07	8.02E-07
LINC0220	2.820208	-4.26997	4.94E-07	8.69E-07
SERPIN3	3.588284	0.594429	4.99E-07	8.78E-07
SPRR4	3.008388	-4.19663	5.82E-07	1.02E-06
OTX2	2.652352	-3.88421	5.91E-07	1.04E-06
PRDM14	2.256845	-4.09407	6.04E-07	1.06E-06

UCMA	2.42906	-4.25144	6.13E-07	1.07E-06
SMR3A	4.294248	-0.80971	6.53E-07	1.14E-06
LCE1C	2.768936	-1.87263	7.14E-07	1.25E-06
PRODH2	2.593613	-3.66485	7.19E-07	1.25E-06
SPRR1B	3.147629	0.867924	7.77E-07	1.35E-06
KRTAP3-3	2.905429	-1.80953	9.42E-07	1.63E-06
VCX2	2.28023	-4.21479	1.02E-06	1.77E-06
SERPINA6	2.314435	5.537089	1.08E-06	1.87E-06
ISX	2.93735	-1.27157	1.27E-06	2.19E-06
C11orf97	2.090824	-3.97982	1.30E-06	2.23E-06
MAGEA9B	3.529103	-2.62283	1.58E-06	2.71E-06
AL035425	3.466294	-2.72736	1.59E-06	2.72E-06
PRM1	3.392815	-3.97771	1.72E-06	2.92E-06
RBMXL2	2.263523	-3.39959	1.76E-06	2.99E-06
MAGEB6	2.192839	-4.25984	1.78E-06	3.03E-06
KIR3DL3	2.161175	-4.26587	1.80E-06	3.06E-06
HCRTR2	2.037338	-2.11989	2.01E-06	3.41E-06
SERPINB1	3.260592	-3.1477	2.81E-06	4.72E-06
ALKAL1	2.360082	-3.06229	3.47E-06	5.79E-06
DCAF8L1	2.430465	-4.29906	3.73E-06	6.22E-06
MTNR1B	2.318029	-3.45386	3.92E-06	6.52E-06
UGT2B10	2.216638	-2.18785	3.93E-06	6.53E-06
ESX1	2.693872	-3.34349	4.01E-06	6.66E-06
MAGEB1	2.449065	-2.14456	4.73E-06	7.82E-06
SPRR2D	3.48995	-0.50302	5.05E-06	8.33E-06
SERPINA7	2.59013	-4.25567	5.46E-06	8.98E-06
TBC1D21	2.580355	-3.91346	5.94E-06	9.74E-06
PRSS48	2.050716	-3.14453	6.95E-06	1.13E-05
FABP1	2.419677	-1.82977	7.75E-06	1.26E-05
SLC6A5	2.239338	-4.05477	7.88E-06	1.28E-05
CGB5	2.319308	-4.05539	8.53E-06	1.38E-05
SLC17A4	2.174532	-3.82974	9.10E-06	1.47E-05
OTOP3	2.00491	-3.1281	9.95E-06	1.61E-05
SNTG1	2.02657	-2.78813	1.04E-05	1.68E-05
LIPF	2.162193	-1.70942	1.07E-05	1.72E-05
FAM83C	2.308792	-1.47253	1.35E-05	2.17E-05
NAA11	2.438543	-1.93895	1.98E-05	3.13E-05
OR8A1	2.186623	-4.14007	2.00E-05	3.16E-05
TMIGD1	2.2669	-3.74355	2.84E-05	4.45E-05
KRT33B	2.043939	-3.22607	3.08E-05	4.81E-05
NTS	2.340407	4.754319	3.45E-05	5.38E-05
SEMG1	2.346786	-4.17928	3.96E-05	6.15E-05
KRT77	2.096651	0.059956	4.04E-05	6.27E-05
PASD1	2.309448	-3.85341	4.32E-05	6.69E-05
OTOP1	2.030208	-4.23148	4.71E-05	7.27E-05
GJD2	2.50536	-3.73831	4.87E-05	7.52E-05
TRIM43	2.140331	-2.72753	5.95E-05	9.13E-05
SLCO1B3	2.2538	-3.19206	6.34E-05	9.70E-05
MMP26	2.089252	-3.99427	6.93E-05	0.000106
MT1B	2.236501	-4.00984	6.99E-05	0.000107
F9	2.400833	-3.47942	7.88E-05	0.00012
DCAF12L1	2.147253	-1.75203	9.14E-05	0.000138
UGT1A6	2.292662	-1.05813	0.000123	0.000184
RPTN	2.004574	-3.26745	0.000151	0.000224
STATH	2.667203	-2.94643	0.000174	0.000258
CTAG2	2.437325	-0.90957	0.000358	0.000518
UGT1A10	2.110467	-3.31511	0.000654	0.000931
LACRT	2.27887	3.807247	0.00082	0.001157

XAGE5	2.039266	-2.99504	0.001365	0.001894
SPRR2E	2.027184	-0.73263	0.003132	0.004239