

Supplementary Table 1. The log₂FC and adjusted p value of 1771 DEGs between GBM and normal samples

gene_id	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
HBG1	102.137181	-25.39373789	2.98689156	-8.50172742	1.87E-17	3.14E-13
ATP6V1G2	130.753003	-24.54980043	2.9868344	-8.21933765	2.05E-16	1.72E-12
ANKRD18B	32.3245232	-23.81714251	2.98745633	-7.9723818	1.56E-15	8.72E-12
FAM153B	16.5290563	-22.61951484	2.98824612	-7.56949526	3.75E-14	1.26E-10
CARTPT	39.1655053	-7.979529042	2.14387777	-3.72200745	0.00019765	0.00564385
TRHDE	34.0133253	-7.77956427	1.78082913	-4.36850686	1.25E-05	0.00080852
CDH18	53.2394051	-7.713763234	1.66214194	-4.6408571	3.47E-06	0.00033898
GABRG1	55.3127153	-7.579832252	1.26439128	-5.994847	2.04E-09	1.80E-06
GLRA3	52.6384921	-7.525405668	1.22551037	-6.14062995	8.22E-10	8.63E-07
CBLN2	21.1918419	-7.520138452	2.35902526	-3.18781599	0.00143352	0.02082007
HCN1	63.3324792	-7.291241293	1.56467844	-4.6598976	3.16E-06	0.00032416
MAL2	75.665562	-7.166429628	1.65969804	-4.31791173	1.58E-05	0.000966
PRKG2	12.175708	-7.132908559	1.19321187	-5.97790615	2.26E-09	1.88E-06
PLCH1	20.0737325	-7.002759862	2.44250226	-2.86704335	0.00414326	0.04229853
PVALB	272.849952	-6.954727652	1.50897016	-4.60892325	4.05E-06	0.00037167
SYT14	14.3189027	-6.947871272	1.56759667	-4.43218042	9.33E-06	0.00065044
CYP4F35P	10.6214743	-6.937225135	1.63486762	-4.24329471	2.20E-05	0.00122966
HTR5A	38.5958977	-6.915043043	2.18232573	-3.16865762	0.00153145	0.02175954
KCNV1	33.7865307	-6.875054015	2.22794557	-3.08582675	0.00202987	0.02633973
UGT2B17	9.98073154	-6.855697447	1.60556074	-4.26997078	1.95E-05	0.00113673
GABRA4	37.6929411	-6.841680497	1.23001749	-5.5622628	2.66E-08	1.32E-05
NEUROD6	51.0243273	-6.836249297	1.73235614	-3.94621472	7.94E-05	0.00293226
CYP4Z1	9.8113284	-6.82015317	1.2498287	-5.45687033	4.85E-08	2.09E-05
SERTM1	33.9838961	-6.807610721	1.80524082	-3.77102636	0.00016258	0.00488721
LOC100128554	9.2065482	-6.730638385	1.60294019	-4.19893296	2.68E-05	0.00142608
UNC13C	61.2936289	-6.697918982	1.78365167	-3.7551721	0.00017322	0.00511569
CACNG3	112.853492	-6.631941284	1.84746579	-3.58975051	0.00033099	0.00800733
ANKRD30B	8.41162731	-6.599943611	1.63800604	-4.02925475	5.60E-05	0.00233313
DKK2	8.24781412	-6.578811458	1.51355695	-4.34658997	1.38E-05	0.00087022
LOC440040	30.4624646	-6.568825311	2.14443627	-3.06319446	0.00218988	0.02781458
PTPRR	37.1777889	-6.471298928	1.92539108	-3.36103091	0.00077652	0.0136922
OR2M4	7.66161657	-6.467818367	1.43021818	-4.52225992	6.12E-06	0.00048268
OMD	10.2271106	-6.458214461	1.44624907	-4.46549257	7.99E-06	0.00058112
KLHL1	9.89095372	-6.415530011	1.39880634	-4.58643189	4.51E-06	0.00038639
RXFP1	43.1707944	-6.395579975	1.75182769	-3.65080425	0.00026142	0.00681071
SYNPR	450.117274	-6.306731585	1.8160677	-3.47274036	0.00051517	0.0105316
GABRA2	81.1370646	-6.260981156	1.11130311	-5.63390951	1.76E-08	9.25E-06
GABRA5	57.5451509	-6.217014417	1.77609149	-3.50039087	0.00046458	0.00989203
HTR3B	6.38535336	-6.203413754	1.7343693	-3.57675482	0.00034789	0.00824021
CRYM	155.740295	-6.188619945	1.57657331	-3.92536136	8.66E-05	0.00312279
NEFM	599.840344	-6.153411313	1.48979445	-4.13037604	3.62E-05	0.00171705
GALNTL5	8.27137922	-6.148148081	1.63145733	-3.7685007	0.00016423	0.00491932
C2orf65	10.9707737	-6.137600102	1.34871191	-4.55071246	5.35E-06	0.00044257
CDH8	51.0485887	-6.087768671	0.9907271	-6.14474833	8.01E-10	8.63E-07
VSNL1	4463.11221	-6.073191914	1.33009407	-4.56598675	4.97E-06	0.00041357

SYT1	1139.94251	-6.05896067	1.04838942	-5.77930354	7.50E-09	5.04E-06
C1QL3	108.863384	-6.058830613	2.04959112	-2.95611674	0.00311539	0.03478474
HOOK1	7.70670188	-6.044107501	1.46173886	-4.13487503	3.55E-05	0.00170026
ZNF804B	7.62081081	-6.029933776	1.43397453	-4.20504942	2.61E-05	0.00139247
OLFM3	118.049019	-6.021516619	1.1458335	-5.25514103	1.48E-07	4.29E-05
OR3A2	7.45797047	-5.99534895	1.3103697	-4.57531102	4.76E-06	0.00040356
ANKRD26P3	5.33779791	-5.941355103	1.69557403	-3.50403757	0.00045826	0.00983249
PPP3R2	5.23407189	-5.913943916	1.44910475	-4.08110174	4.48E-05	0.00201931
TCERG1L	7.0022037	-5.910639537	1.31352703	-4.49982331	6.80E-06	0.00052184
EPHA6	18.0231846	-5.865525625	1.45494509	-4.03144124	5.54E-05	0.00232305
KIAA0748	239.412017	-5.834968376	1.07698805	-5.41785804	6.03E-08	2.31E-05
RALYL	8.95625089	-5.834400765	1.37732827	-4.23602774	2.28E-05	0.00126591
HTR2A	233.468064	-5.825922527	0.91277767	-6.38263039	1.74E-10	3.19E-07
GRIN3A	47.8795641	-5.789179151	1.25001726	-4.63127936	3.63E-06	0.00034896
SNAP25	1803.07336	-5.787358386	1.0272433	-5.6338731	1.76E-08	9.25E-06
CDH12	6.37478975	-5.775826606	1.71508524	-3.36766154	0.00075809	0.01359539
LOC100507387	21.427565	-5.750352503	1.36342382	-4.21758254	2.47E-05	0.00133855
MTMR7	131.771729	-5.720131007	1.11713183	-5.12037241	3.05E-07	7.02E-05
ANK3	15.4162757	-5.714019927	1.22142279	-4.67816712	2.89E-06	0.00030211
MIR31HG	149.794822	-5.712949833	1.38849553	-4.11448918	3.88E-05	0.00180626
RAB3C	84.0104796	-5.710791035	1.48527617	-3.84493549	0.00012058	0.0039499
LRFN5	86.5192584	-5.683648553	1.11177069	-5.11224896	3.18E-07	7.08E-05
SLITRK4	35.4928187	-5.669633453	1.28512005	-4.41175394	1.03E-05	0.00068916
LOC100129480	16.9506949	-5.665752982	1.21400589	-4.6669897	3.06E-06	0.0003151
KCNJ3	119.719015	-5.659531046	1.58037201	-3.58113851	0.0003421	0.00814257
OR2M5	5.8362218	-5.650019061	1.40538144	-4.02027442	5.81E-05	0.00238832
RYR2	78.5718218	-5.634610326	1.16123673	-4.85224947	1.22E-06	0.00017837
SLC35F3	27.9544772	-5.626239006	1.14842643	-4.89908526	9.63E-07	0.00014844
CNTN5	34.5211295	-5.624922992	1.65235821	-3.40417893	0.00066363	0.01239076
SLC4A10	100.222129	-5.619881759	1.0995496	-5.11107615	3.20E-07	7.08E-05
PCSK2	56.2031867	-5.60813262	1.13046822	-4.96089364	7.02E-07	0.00011886
POU6F2	9.67677204	-5.585789292	1.35409134	-4.12512003	3.71E-05	0.00174414
ZNF385B	22.830121	-5.567385521	1.32079776	-4.21516882	2.50E-05	0.00134582
GAD2	127.859653	-5.558952998	1.85646153	-2.99438093	0.00275002	0.03195809
TMEM132D	39.6947813	-5.540605535	1.11418724	-4.97277777	6.60E-07	0.00011553
KCNC1	7.19452932	-5.517848446	1.76089615	-3.13354564	0.00172708	0.02369516
OR2AK2	19.8423412	-5.51595537	1.396104	-3.95096309	7.78E-05	0.00291932
KRT222	153.248827	-5.509976399	1.72413518	-3.19579141	0.00139448	0.02046535
FLT3	6.97448146	-5.505157725	1.33780722	-4.11506057	3.87E-05	0.00180626
GNG3	220.295443	-5.50215104	1.0005373	-5.49919635	3.82E-08	1.78E-05
RIMS1	2554.15401	-5.489942391	1.0397355	-5.28013365	1.29E-07	3.94E-05
KCNH5	24.068585	-5.479829501	1.31746201	-4.15938332	3.19E-05	0.00159118
NEGR1	166.640485	-5.454261841	0.90969525	-5.99570221	2.03E-09	1.80E-06
SV2C	25.6650453	-5.446216589	1.14673594	-4.74932058	2.04E-06	0.00024853
OR2L2	16.4256739	-5.439181044	1.18194363	-4.60189548	4.19E-06	0.00037568
MAS1	21.3040901	-5.411019148	1.92003149	-2.81819292	0.00482948	0.04674801
TMEM155	115.873285	-5.399418114	1.57716399	-3.42349823	0.00061821	0.01181837
ATP8A2	125.632614	-5.393809308	1.08906971	-4.95267591	7.32E-07	0.00012059

DHRS9	98.3326426	-5.393593899	0.75982522	-7.0984665	1.26E-12	3.53E-09
BMP3	3.64955774	-5.39044448	1.82846668	-2.9480682	0.00319767	0.0353743
CAMK2A	542.60843	-5.383520608	1.36720917	-3.93759839	8.23E-05	0.00298702
ADH1B	21.456751	-5.379585479	1.00973875	-5.32770031	9.95E-08	3.34E-05
CALHM1	3.58872057	-5.369788083	1.89395095	-2.8352308	0.00457926	0.04512029
CASQ2	8.76146128	-5.36245365	1.06058104	-5.05614702	4.28E-07	8.39E-05
LINC00320	29.1895754	-5.35261267	1.2715243	-4.20960312	2.56E-05	0.00137342
SLC22A10	4.71608926	-5.339136054	1.91648338	-2.78590262	0.00533789	0.04974926
KIF6	57.1506704	-5.335755772	1.03505799	-5.15503074	2.54E-07	6.00E-05
LOC340017	3.49847947	-5.330578804	1.59732162	-3.33719817	0.00084628	0.01445573
OR2L1P	19.2607076	-5.313986417	1.18162338	-4.49719131	6.89E-06	0.00052594
SSTR1	6.15842021	-5.291569432	1.73972162	-3.04161848	0.0023531	0.02909563
SH3GL3	378.041336	-5.290631236	1.10121653	-4.80435144	1.55E-06	0.00020542
ST8SIA3	51.129544	-5.287565941	1.21492398	-4.35217842	1.35E-05	0.00085673
CCDC144NL	8.3370186	-5.2796155	1.68261699	-3.13774051	0.00170256	0.02354711
GRM1	171.783533	-5.278191552	1.09337245	-4.8274415	1.38E-06	0.00019206
CREG2	154.760649	-5.261039946	1.09711696	-4.79533187	1.62E-06	0.00021156
RSPO3	17.5940599	-5.260486763	1.51357892	-3.47552855	0.00050985	0.01049936
SEMA3D	24.2302001	-5.254936899	0.9164647	-5.73392175	9.81E-09	6.11E-06
CALY	184.954786	-5.236886321	1.47923793	-3.54025963	0.00039973	0.00902839
TRPM3	54.7987397	-5.224329833	0.96437403	-5.41732736	6.05E-08	2.31E-05
SVOP	71.9227537	-5.221661396	1.66713551	-3.13211576	0.00173551	0.02374885
EMX1	7.74287239	-5.219932034	1.76942587	-2.95007106	0.00317701	0.03521534
DRD1	15.2960426	-5.213075919	1.28097309	-4.06962173	4.71E-05	0.00205699
VIP	5.94946947	-5.211754962	1.46515616	-3.55713274	0.00037492	0.0086423
OR2L13	5.81360192	-5.207663604	1.33150118	-3.91112204	9.19E-05	0.00324895
STAT4	48.7493591	-5.183256708	1.03361314	-5.014697	5.31E-07	0.00010143
SV2B	15.5962579	-5.180667715	1.28126236	-4.04340896	5.27E-05	0.00224677
TDGF1	4.22890788	-5.178780199	1.46082284	-3.54511174	0.00039245	0.00893587
PRKCG	77.7078348	-5.164295036	1.54400243	-3.34474541	0.00082358	0.0142669
LGR5	24.6498964	-5.14599705	1.06409128	-4.83604852	1.32E-06	0.00018885
TAC1	109.802547	-5.143148544	1.44020957	-3.57111121	0.00035547	0.00835429
OR2L8	4.11997881	-5.142206915	1.44046151	-3.56983292	0.00035721	0.00837174
CUX2	18.912275	-5.141973636	1.4663534	-3.50664011	0.0004538	0.00978908
SERPINI1	112.360685	-5.131108322	0.94394303	-5.43582417	5.45E-08	2.22E-05
STYK1	13.9978565	-5.125231177	1.23379864	-4.15402564	3.27E-05	0.00160511
CDH19	53.3881392	-5.124833087	1.0923352	-4.69163047	2.71E-06	0.00029384
SLCO1A2	300.664937	-5.118506714	0.85318139	-5.9993183	1.98E-09	1.80E-06
FAM153C	149.780151	-5.118367211	1.07297482	-4.77025846	1.84E-06	0.00023073
CA7	4.06566676	-5.117875713	1.75489503	-2.91634293	0.00354161	0.03789379
ANKRD18DP	5.53500508	-5.115271757	1.31614098	-3.88656825	0.00010167	0.0034796
TRPM6	25.8375181	-5.106360991	0.95953945	-5.32167906	1.03E-07	3.39E-05
CDR1	27857.6155	-5.095509663	0.94787183	-5.375737	7.63E-08	2.85E-05
CAMK1G	45.1041367	-5.08854409	1.25228823	-4.06339689	4.84E-05	0.0020946
LOC401134	6.89678375	-5.087472699	1.2230925	-4.15951589	3.19E-05	0.00159118
SLC6A7	17.0942939	-5.081624218	1.52046062	-3.34216103	0.00083129	0.0143276
OMG	410.044611	-5.080253241	0.93040774	-5.46024398	4.75E-08	2.09E-05
STX1A	382.080937	-5.077177511	1.41082637	-3.59872599	0.00031978	0.00785611

NELL1	33.081838	-5.043788471	1.27687099	-3.95011595	7.81E-05	0.00291932
SLC12A5	76.0898987	-5.027176567	1.11637351	-4.50313138	6.70E-06	0.00051852
OR2M2	2.76088682	-4.992445974	1.59011471	-3.13967662	0.00169134	0.02344707
VAX1	4.97048049	-4.989664652	1.35454591	-3.6836438	0.00022992	0.00625184
CKMT1B	164.132371	-4.989449047	1.47642594	-3.37941032	0.00072642	0.01321356
CCL3L3	160.703646	-4.988425488	1.76304122	-2.82944348	0.0046629	0.04550257
ELAVL4	65.94927	-4.987119723	0.95818608	-5.20475076	1.94E-07	5.10E-05
SLC17A7	490.516857	-4.984181583	1.31368549	-3.79404479	0.00014821	0.00455401
CPLX2	248.16058	-4.978390234	1.67634326	-2.96979165	0.00298002	0.03392698
ACVR1C	30.575608	-4.956407647	0.95416221	-5.19451264	2.05E-07	5.23E-05
PPP4R4	32.3698621	-4.95333765	1.01689397	-4.87104632	1.11E-06	0.00016508
SLCO4C1	2.67477612	-4.938545067	1.40615775	-3.51208465	0.00044461	0.00970153
ADCYAP1	4.88126587	-4.93331106	1.65115745	-2.9877896	0.00281003	0.03245342
OR2M1P	7.83638527	-4.920463359	1.32473913	-3.71428853	0.00020378	0.00577446
SYN2	888.867487	-4.903648527	1.10629391	-4.43250071	9.31E-06	0.00065044
PAPL	3.43664594	-4.897890877	1.51249129	-3.2382936	0.00120247	0.01842218
ADTRP	9.54942788	-4.880918304	1.10655724	-4.41090451	1.03E-05	0.00068916
PAQR8	49.1330666	-4.871586473	0.81740064	-5.95985155	2.52E-09	1.93E-06
NEFL	395.48582	-4.867272695	1.61102665	-3.0212242	0.00251755	0.03035696
PCDHA6	4.59709281	-4.859244588	1.44458902	-3.36375572	0.0007689	0.01367251
ANO3	23.478427	-4.856055481	1.23165915	-3.94269426	8.06E-05	0.00296263
KCTD16	183.627213	-4.84439009	0.78373803	-6.18113439	6.36E-10	8.63E-07
LOC100507140	9.01903681	-4.843858147	1.17606063	-4.11871466	3.81E-05	0.00178549
GRIP1	7.63134095	-4.839414453	1.18123734	-4.0969027	4.19E-05	0.00191198
THEMIS	9.14512712	-4.833790492	1.08003776	-4.47557544	7.62E-06	0.00056165
WIF1	158.502145	-4.822784591	1.71104883	-2.81861307	0.00482316	0.04673019
RGS4	31.8288421	-4.808062271	1.25507742	-3.83088898	0.00012768	0.0041024
FAM19A1	105.416394	-4.783830391	1.05772631	-4.5227488	6.10E-06	0.00048268
B3GALT2	51.9446091	-4.775768216	1.01289629	-4.7149627	2.42E-06	0.00027772
OR2T12	20.4317868	-4.765339425	1.36006483	-3.50375902	0.00045874	0.00983249
GUSBP10	4.22039736	-4.756348466	1.49308115	-3.18559274	0.00144458	0.02093197
FAM19A2	131.665114	-4.748754364	0.83098988	-5.71457546	1.10E-08	6.37E-06
SULT4A1	342.791606	-4.74150161	1.61139263	-2.94248685	0.00325588	0.03582956
SLC6A17	39.6706874	-4.740003781	1.17297152	-4.04102206	5.32E-05	0.00226402
CDH7	21.3943172	-4.738110861	1.3291055	-3.56488695	0.00036401	0.00848388
TMEM144	242.199402	-4.723721113	0.72534667	-6.51236342	7.40E-11	1.78E-07
CADPS	102.21134	-4.723416442	1.00656212	-4.69262289	2.70E-06	0.00029384
GPR6	6.9616913	-4.721189527	1.53433443	-3.0770277	0.00209076	0.02692192
SCN2A	109.551458	-4.712696092	0.89486078	-5.26640142	1.39E-07	4.17E-05
CCL4	530.196834	-4.711838944	1.11582676	-4.22273342	2.41E-05	0.00131517
SLC6A15	51.9126226	-4.708304859	1.17039888	-4.02282071	5.75E-05	0.0023801
RAB3B	35.1125351	-4.70009975	0.93915254	-5.00461805	5.60E-07	0.00010373
LOC389023	42.0373779	-4.685574843	1.05919032	-4.42373268	9.70E-06	0.00066267
CCK	14.264948	-4.670337722	1.33600353	-3.49575254	0.00047273	0.00997953
PTGER3	7.77279093	-4.666828456	1.52847349	-3.05326097	0.00226369	0.02851503
SYT4	203.699153	-4.659912512	1.12158557	-4.15475433	3.26E-05	0.00160469
LRRC7	273.318495	-4.652272355	1.34942779	-3.44758897	0.00056561	0.01112319
IFNE	4.07914327	-4.650023894	1.34274271	-3.46307886	0.00053403	0.01074772

TMEM130	42.6118073	-4.643901592	1.08658664	-4.27384382	1.92E-05	0.00112103
ABLIM2	57.5133171	-4.64233553	1.10811716	-4.18939052	2.80E-05	0.00146422
GJB6	46.7526701	-4.639357797	1.61368472	-2.87500882	0.00404016	0.04159981
SNAP91	297.161349	-4.633929897	1.06322396	-4.35837609	1.31E-05	0.0008404
SLC22A25	2.95257391	-4.631249525	1.39307655	-3.32447598	0.00088585	0.01491563
OR2M3	6.83747752	-4.629670968	1.24720876	-3.7120257	0.00020561	0.00579643
SPOCK3	866.461161	-4.625252127	1.48248878	-3.11992386	0.00180898	0.02431845
OR14I1	11.0043394	-4.61525068	1.53810525	-3.00060785	0.00269441	0.03164005
CRHBP	50.557735	-4.611031018	0.95352065	-4.83579568	1.33E-06	0.00018885
SLC30A3	18.3778504	-4.610013171	1.33119011	-3.46307648	0.00053404	0.01074772
SLC9A2	2.83515504	-4.587969711	1.51659174	-3.02518443	0.00248482	0.03013099
GPR12	3.84431591	-4.577106456	1.52223566	-3.00683172	0.00263986	0.0312705
ERMN	14.2049648	-4.569007117	1.31951578	-3.46263925	0.00053491	0.01075185
C21orf15	7.7350462	-4.562043326	1.47993099	-3.08260544	0.00205197	0.0265037
TARP	23.1905532	-4.56039513	1.1695726	-3.89919799	9.65E-05	0.00334389
NKAIN2	120.993761	-4.559816267	1.13619599	-4.01323038	5.99E-05	0.00241935
TACR3	8.00884868	-4.558671455	1.23074257	-3.70400078	0.00021223	0.00594373
MIR490	5.8928322	-4.557365022	1.45440175	-3.13349803	0.00172736	0.02369516
MYOT	11.1754389	-4.556422118	1.14528838	-3.97840596	6.94E-05	0.00266783
EHBP1	62.7547581	-4.548588404	0.88490355	-5.14020813	2.74E-07	6.40E-05
GLS2	44.7870556	-4.54011432	1.10368003	-4.11361464	3.90E-05	0.00180811
CLTA	112.859538	-4.5388692	0.92188892	-4.92344481	8.50E-07	0.00013609
PCDHA7	4.7893965	-4.537027286	1.51171123	-3.00125262	0.00268871	0.03161732
FGF20	6.98135005	-4.534404569	1.29109427	-3.51206312	0.00044464	0.00970153
OR2L3	5.67889826	-4.528447602	1.3310302	-3.40221252	0.00066843	0.01245259
NRG4	14.8874392	-4.5150523	1.09918355	-4.1076418	4.00E-05	0.0018453
TPH2	5.11178361	-4.512430418	1.57585937	-2.86347279	0.00419025	0.04264865
SLC8A2	41.4700054	-4.511160199	1.15079337	-3.92004361	8.85E-05	0.00316473
KCNK1	100.055454	-4.507904655	1.10587228	-4.07633388	4.58E-05	0.00203388
SLC5A11	33.6583776	-4.502665229	1.27386866	-3.53463851	0.00040833	0.00915117
PABPC1L2A	22.2955591	-4.501120189	1.22643673	-3.67007942	0.00024248	0.00645729
CIDEA	8.42770189	-4.495381788	1.41767443	-3.17095498	0.00151939	0.02161878
ARHGAP44	163.470566	-4.495059178	0.88332301	-5.08880572	3.60E-07	7.38E-05
KHDRBS2	69.678395	-4.493091489	1.0480956	-4.28691	1.81E-05	0.00107579
RIMS2	182.743592	-4.492841192	1.39256552	-3.22630507	0.001254	0.01901819
PLCXD3	15.3676563	-4.490501576	0.98913736	-4.53981598	5.63E-06	0.00045269
CKMT1A	127.287306	-4.478603262	1.4725461	-3.04140105	0.0023548	0.02909563
PDE1A	122.271964	-4.475913337	0.97331636	-4.59862129	4.25E-06	0.00037568
P2RY12	311.181782	-4.471972212	0.85653697	-5.2209915	1.78E-07	4.82E-05
MPPED1	73.1626512	-4.468977594	1.57246431	-2.84202164	0.00448284	0.04446909
WSCD2	16.0102123	-4.461786281	1.28096745	-3.48313791	0.00049557	0.01030645
CAPN13	2.5592254	-4.458069228	1.51699077	-2.93875831	0.0032953	0.03602888
NECAB1	851.957341	-4.440098818	0.94787852	-4.68424878	2.81E-06	0.00029884
CALB1	26.4840512	-4.425011194	1.15188333	-3.84154461	0.00012226	0.00396644
HMGCLL1	64.7550436	-4.41890975	1.52572114	-2.89627616	0.0037762	0.03947982
STXBP6	94.2819921	-4.415625931	0.77101282	-5.72704605	1.02E-08	6.13E-06
MTUS2	13.1328815	-4.385694829	1.30647017	-3.35690392	0.0007882	0.0138546
VAMP1	83.3367631	-4.382849198	0.95943752	-4.56814448	4.92E-06	0.00041137

LOC100189589	27.8856987	-4.378598903	0.97591865	-4.48664334	7.24E-06	0.00054278
RGS7BP	246.959565	-4.378377648	0.9339654	-4.68794415	2.76E-06	0.00029549
CNTN4	51.4945648	-4.377536535	0.91842533	-4.76634997	1.88E-06	0.00023351
LDB3	34.5511788	-4.374462728	1.02599425	-4.26363281	2.01E-05	0.00116144
AKR1C2	17.7216946	-4.372753701	1.24657862	-3.50780419	0.00045182	0.00977144
HTR1A	21.4916972	-4.342715726	1.23942207	-3.50382315	0.00045863	0.00983249
CPXM2	51.7889748	-4.326070051	1.024433	-4.22289211	2.41E-05	0.00131517
CNTNAP4	427.005533	-4.318196184	1.38879604	-3.10930912	0.00187525	0.0249302
EDIL3	706.892141	-4.313204369	0.85703808	-5.03268698	4.84E-07	9.34E-05
SNRPN	128.081118	-4.306940651	1.37667977	-3.12849853	0.00175702	0.02394562
ANO4	198.87308	-4.3019675	0.82704667	-5.20160186	1.98E-07	5.11E-05
AK5	680.250534	-4.291087405	1.05359668	-4.07279892	4.65E-05	0.00204701
CABP1	309.36904	-4.280706294	1.09615175	-3.90521322	9.41E-05	0.00328891
MCF2	9.80304054	-4.268424165	1.17506556	-3.63249874	0.00028069	0.00716826
IL12RB2	5.43821428	-4.261057437	1.27407197	-3.34444013	0.00082449	0.0142669
OR2T33	13.0223934	-4.251748403	1.01716966	-4.17997957	2.92E-05	0.00149563
LOC286186	9.02770324	-4.245688767	1.00422186	-4.22783942	2.36E-05	0.00130422
DYDC2	8.29286006	-4.244460395	1.10094788	-3.85527825	0.0001156	0.00384655
FXVD7	26.7014545	-4.237474786	1.0402045	-4.07369396	4.63E-05	0.00204701
CACNG2	23.8275581	-4.232789623	1.20681149	-3.50741576	0.00045248	0.00977314
QRFPR	8.15584286	-4.230116859	1.17934126	-3.58684717	0.0003347	0.00804622
CNNM1	40.8049606	-4.22962196	1.20490107	-3.5103479	0.00044752	0.00972851
MDGA2	34.1671174	-4.228133466	1.05238499	-4.01766799	5.88E-05	0.0023973
AMY2A	5.0920903	-4.222316287	1.32491426	-3.18686003	0.00143826	0.02087097
ANK2	488.303182	-4.196939945	0.83827615	-5.00663172	5.54E-07	0.00010373
RBM11	18.4196886	-4.185592057	1.25776263	-3.32780761	0.00087532	0.01480393
CHD5	58.6916894	-4.181988097	1.13609568	-3.68101752	0.00023231	0.00628608
DPP10	124.754759	-4.179017882	0.88297371	-4.73289051	2.21E-06	0.00026312
NDST3	9.8984347	-4.175716615	1.16089598	-3.59697742	0.00032194	0.00788368
TMEM244	2.11667606	-4.159115474	1.42985148	-2.90877447	0.00362849	0.03841751
ZNF98	23.543702	-4.158224771	1.16852329	-3.55852964	0.00037294	0.00860828
ASB2	15.3918073	-4.156946942	1.01157437	-4.1093834	3.97E-05	0.00183648
RASGRF1	158.536514	-4.149582329	1.10889512	-3.7420873	0.0001825	0.00530571
C4orf37	31.1411491	-4.148903993	0.87704461	-4.73055069	2.24E-06	0.00026312
IPCEF1	112.193686	-4.143915976	0.65199456	-6.35575243	2.07E-10	3.19E-07
AMPH	70.2753253	-4.136374478	0.99090247	-4.17435077	2.99E-05	0.00152171
TLL1	17.1172309	-4.127358288	0.99888115	-4.13198136	3.60E-05	0.0017122
MADD	259.337026	-4.123047804	1.00779405	-4.0911611	4.29E-05	0.00195463
ANKRD18A	43.2887797	-4.119646819	1.2721816	-3.23825373	0.00120264	0.01842218
IL1RAPL1	84.0045543	-4.110513332	0.86833481	-4.73378851	2.20E-06	0.00026312
LRP2	188.46981	-4.101855717	1.08249998	-3.78924323	0.00015111	0.00461673
HBQ1	2.02202076	-4.10148037	1.41810926	-2.89221747	0.00382533	0.03977776
RASGRF2	146.375492	-4.095196805	0.70772514	-5.78642272	7.19E-09	5.03E-06
NLRP4	8.35978594	-4.092697221	1.187274	-3.44713792	0.00056656	0.01112319
WBP2NL	8.96186863	-4.091094846	0.97797079	-4.18324851	2.87E-05	0.00148585
OR5AK4P	6.18109278	-4.089021352	1.45732403	-2.80584226	0.00501853	0.04783398
DACT2	3.6417176	-4.084091902	1.35252839	-3.01959792	0.0025311	0.03046754
LPPR4	214.447672	-4.082624327	0.83202264	-4.90686686	9.25E-07	0.00014534

RSPO2	34.7562228	-4.081265889	0.98616271	-4.13853194	3.50E-05	0.00168136
PEX5L	41.3191563	-4.069126086	1.00760333	-4.03842063	5.38E-05	0.00227774
AAK1	191.889437	-4.06495656	0.74757924	-5.43749258	5.40E-08	2.22E-05
ATG13	16.9226073	-4.059691643	0.92227875	-4.40180544	1.07E-05	0.00071303
ANKRD31	2.67331036	-4.057814066	1.21954804	-3.32730975	0.00087689	0.01480393
NRG1	30.9008165	-4.057102143	1.17223214	-3.46100573	0.00053816	0.01079148
PRSS3	30.0322422	-4.044027037	0.97293754	-4.1565125	3.23E-05	0.0016018
C17orf110	3.46825145	-4.036661127	1.31238203	-3.07582778	0.00209919	0.02696591
FSTL5	6.48845537	-4.034535895	1.34339767	-3.00323276	0.00267128	0.03150049
SYN1	303.193211	-4.032547525	1.0218679	-3.94625131	7.94E-05	0.00293226
MPP7	15.5238348	-4.02839784	0.95333467	-4.2255862	2.38E-05	0.00131302
SLC8A1	107.716051	-4.020046226	0.95210244	-4.22228331	2.42E-05	0.00131517
SOWAHA	21.1083225	-4.016058498	0.83374784	-4.81687426	1.46E-06	0.00019762
INA	203.027748	-4.012190596	1.37182624	-2.92470757	0.0034478	0.03716282
CCDC85A	114.988077	-3.990730432	0.99032585	-4.02971451	5.58E-05	0.00233313
SLC7A14	15.4241851	-3.987084804	0.9357747	-4.26073159	2.04E-05	0.00116859
PIP5K1B	36.0356921	-3.984913405	0.75230175	-5.29696153	1.18E-07	3.73E-05
OGN	2.48425804	-3.984688485	1.42276282	-2.80066953	0.00509967	0.04833326
CCL3	707.402882	-3.974614331	1.04690324	-3.7965441	0.00014673	0.00453236
GNAL	89.8643598	-3.973612847	0.82203864	-4.83385167	1.34E-06	0.0001891
OR10A5	2.57671133	-3.970232365	1.31424781	-3.02091609	0.00252011	0.03035696
RASAL1	35.4572689	-3.969310935	1.01736471	-3.90156145	9.56E-05	0.00332511
SNCG	261.423044	-3.955736372	0.94596831	-4.1816796	2.89E-05	0.00149155
LILRA4	9.11763882	-3.932242349	0.95841196	-4.10287277	4.08E-05	0.00186837
GPIHBP1	53.8419663	-3.928643514	1.03449249	-3.79765301	0.00014607	0.00452045
SLC14A1	23.3419758	-3.918529107	1.07065191	-3.65994686	0.00025227	0.0066276
GABRD	80.2557127	-3.916979976	1.11540258	-3.5117186	0.00044522	0.00970153
ANXA3	52.5835153	-3.91389395	0.63527196	-6.1609739	7.23E-10	8.63E-07
DBC1	28.8536787	-3.911243051	0.87050066	-4.49309604	7.02E-06	0.00053133
NRGN	175.815871	-3.910517229	1.04708133	-3.73468335	0.00018795	0.00539887
NAV3	131.375731	-3.901878754	0.68773577	-5.67351436	1.40E-08	7.84E-06
SH3GL2	437.82713	-3.901382403	1.01290342	-3.85168253	0.00011731	0.00387396
MGAT4C	8.63567884	-3.891727445	1.29626621	-3.00225942	0.00267984	0.0315571
TAGLN3	697.774041	-3.886349469	0.92666698	-4.19390088	2.74E-05	0.00145351
ATRNL1	1834.23803	-3.884811838	0.82191682	-4.72652674	2.28E-06	0.00026652
HSPA12A	206.151021	-3.881381364	0.70556587	-5.50109003	3.77E-08	1.78E-05
FAM190A	36.9517291	-3.875332199	0.938334	-4.13001361	3.63E-05	0.00171705
MYT1L	165.191419	-3.869307592	1.35375979	-2.85819361	0.0042606	0.04312963
ELAVL2	13.3974955	-3.868135068	1.13859956	-3.39727433	0.00068061	0.01260961
VSTM2L	20.0860356	-3.867740259	1.36004833	-2.84382561	0.00445754	0.04432223
GPR83	15.4131246	-3.865452909	1.11873199	-3.45520906	0.00054987	0.01093486
PRKCB	265.206141	-3.862145727	0.82979733	-4.65432413	3.25E-06	0.00032904
CLDN16	7.1499969	-3.849413058	1.08597353	-3.54466564	0.00039311	0.0089389
MFSD4	160.060998	-3.848342336	0.85497607	-4.50111115	6.76E-06	0.00052107
UGT8	599.267177	-3.845440909	1.10164615	-3.49063165	0.00048188	0.01014451
CPNE6	23.5760482	-3.837364521	1.13478348	-3.381583	0.00072069	0.01317484
IFNA13	25.7935494	-3.835741646	0.89265189	-4.29701844	1.73E-05	0.00104869
RANBP17	426.873782	-3.826945958	0.97974087	-3.90607973	9.38E-05	0.00328398

AKR1C1	32.0047639	-3.825192717	0.88919386	-4.30186588	1.69E-05	0.00103117
PIEZO2	160.52273	-3.825181768	0.83697785	-4.57023059	4.87E-06	0.00040934
OR13C5	2.25707709	-3.819944243	1.32876763	-2.87480231	0.00404281	0.04160153
IQCJ-SCHIP1	15.2794532	-3.814250559	1.30091835	-2.93196769	0.00336822	0.03661031
EVI2A	832.644041	-3.810595405	0.76722837	-4.96670292	6.81E-07	0.00011677
LPAR3	6.55572082	-3.809106738	1.22192445	-3.11730135	0.00182515	0.02443809
HPSE2	14.2735409	-3.806545468	1.17833613	-3.23044109	0.00123599	0.01877906
SOWAHB	23.5981014	-3.787965302	1.11830685	-3.38723249	0.00070602	0.01299439
ATP2B3	63.8860625	-3.785316875	1.148514	-3.2958387	0.00098128	0.01594728
CAMKV	64.4432266	-3.776237189	0.92727887	-4.07238569	4.65E-05	0.00204701
DYNC11I1	211.054239	-3.769217492	0.82028675	-4.59499985	4.33E-06	0.00037875
SCN2B	216.43745	-3.766242841	1.02235239	-3.6838989	0.00022969	0.00625184
NOXRED1	2.11618935	-3.763682217	1.20271717	-3.1293161	0.00175214	0.02391788
CORO6	47.3142575	-3.761941317	0.6859907	-5.48395385	4.16E-08	1.89E-05
ANO5	260.009623	-3.759437865	1.02624538	-3.66329333	0.00024899	0.00657874
NRSN1	170.936935	-3.757110524	0.87796704	-4.27932981	1.87E-05	0.00109911
KIAA1045	137.65617	-3.754415277	1.06745849	-3.51715341	0.0004362	0.00957715
SLC26A8	6.27444395	-3.753688708	1.02784547	-3.65199714	0.00026021	0.00678967
PRMT8	8.19764166	-3.752905692	1.31169167	-2.86111879	0.00422149	0.04290604
CEP44	28.4234158	-3.740893111	0.8136301	-4.59778114	4.27E-06	0.00037568
NAPB	526.656599	-3.740827376	0.77732738	-4.812422	1.49E-06	0.00020045
CLUL1	3.74527513	-3.740452993	1.32833444	-2.81589701	0.00486413	0.04697515
CDKL2	36.7581708	-3.739644411	0.71289454	-5.24571895	1.56E-07	4.38E-05
DLGAP4	80.7777359	-3.733532208	1.07274975	-3.48033845	0.00050078	0.01036345
UNC80	146.4683	-3.72031528	1.10599007	-3.36378725	0.00076881	0.01367251
FAIM	38.2764258	-3.713071095	0.78832112	-4.71009974	2.48E-06	0.00028112
TRIM59	58.258524	-3.710607764	0.83207412	-4.45946784	8.22E-06	0.00059512
GYG1	61.1062801	-3.709388303	0.93576349	-3.96402331	7.37E-05	0.00281122
ADARB2	18.6279118	-3.708175123	1.15367501	-3.21422852	0.00130796	0.01953678
KCNAB1	137.401193	-3.706202143	0.77221214	-4.79946112	1.59E-06	0.00020886
GAS2	87.9650467	-3.705393705	0.78062476	-4.74670275	2.07E-06	0.00024996
PAIP2B	503.545273	-3.701761543	0.7473296	-4.95331854	7.30E-07	0.00012059
NMUR2	8.76425446	-3.700175893	1.12031574	-3.3027974	0.00095726	0.01564758
STMN2	2589.16047	-3.69189938	1.11534895	-3.31008459	0.00093268	0.01547159
MURC	11.3913219	-3.689078096	0.88674294	-4.1602565	3.18E-05	0.00159118
PLD5	36.4219103	-3.688548509	0.76673064	-4.81074878	1.50E-06	0.00020054
RLTPR	57.1039702	-3.686081452	1.02889112	-3.58257678	0.00034022	0.00814257
CAMK4	575.113944	-3.684994066	0.86672363	-4.25163677	2.12E-05	0.0011987
CES4A	64.4446304	-3.684845326	0.84239576	-4.37424486	1.22E-05	0.00079365
GRM7	85.9892409	-3.684409155	0.93073263	-3.95861179	7.54E-05	0.00285399
GRM3	132.857226	-3.682759805	0.90337185	-4.07668203	4.57E-05	0.00203388
PAK7	51.1505064	-3.677411214	1.15521539	-3.18331218	0.00145601	0.02105569
GRIN2B	88.5827156	-3.677310657	1.17278265	-3.1355432	0.00171536	0.02360765
ADAMTS19	45.4116455	-3.652116559	0.97541177	-3.74417929	0.00018098	0.00528915
JPH3	121.029808	-3.65055721	1.19693951	-3.04990952	0.0022891	0.02864191
SAMD12	215.255628	-3.644408951	0.68300273	-5.33586294	9.51E-08	3.34E-05
A2MP1	3.43544487	-3.643297937	1.23318738	-2.95437497	0.00313303	0.03488896
LIN28B	3.92007081	-3.636894665	1.2084634	-3.00951991	0.00261661	0.03108286

GRIN2A	394.832744	-3.636786659	0.82174578	-4.4256834	9.61E-06	0.00066024
JAKMIP3	174.865181	-3.625864121	0.84579315	-4.28693959	1.81E-05	0.00107579
ERBB3	214.748663	-3.619825644	0.88788874	-4.07689103	4.56E-05	0.00203388
CACNA1B	61.1465212	-3.619035439	1.06916602	-3.38491438	0.000712	0.01306171
NYAP2	21.8798817	-3.616774946	1.26577149	-2.857368	0.0042717	0.04316398
ATP10B	155.522512	-3.610284059	0.9367172	-3.85418786	0.00011611	0.0038561
LINC00460	8.91963821	-3.609742136	1.23157961	-2.93098563	0.00337888	0.03667879
PPP1R1A	17.8941145	-3.608255648	0.94653983	-3.8120484	0.00013782	0.00435324
RUNDC3B	38.9002476	-3.608089324	0.74439332	-4.84702005	1.25E-06	0.00018156
LRFN2	19.7777489	-3.607869417	1.01596656	-3.55116946	0.00038352	0.00880427
TP53TG5	5.80277219	-3.606495256	1.24172763	-2.90441735	0.00367937	0.03881242
NFASC	63.9625154	-3.599857928	0.84073042	-4.28182189	1.85E-05	0.00109296
PTH2R	31.7896546	-3.597628196	0.93838812	-3.83383816	0.00012616	0.00406126
PARM1	152.802257	-3.596709053	0.99004409	-3.63287765	0.00028028	0.00716826
MYBPC1	99.9947102	-3.586649562	0.70452395	-5.09088383	3.56E-07	7.38E-05
AKAP5	23.094009	-3.583928702	0.96516838	-3.71326784	0.0002046	0.00578256
ELOVL7	40.5372532	-3.583723084	0.77534553	-4.62209808	3.80E-06	0.00035862
PLP1	14455.159	-3.580480987	1.01966455	-3.51143029	0.0004457	0.00970153
UNC5A	63.9008038	-3.57350101	0.99593811	-3.58807537	0.00033313	0.00803713
CD22	109.350118	-3.570180811	1.07935579	-3.30769598	0.00094067	0.0155275
LOC100287225	27.3114929	-3.568780947	1.03744632	-3.43996684	0.00058179	0.01130211
CPEB3	153.463948	-3.567460406	0.68897377	-5.1779336	2.24E-07	5.46E-05
CLVS2	127.059815	-3.567413696	0.89085279	-4.00449294	6.22E-05	0.00248071
LACC1	84.8881979	-3.563523146	0.80742992	-4.41341478	1.02E-05	0.00068669
AKR1C3	28.4615726	-3.56298195	0.8226098	-4.33131474	1.48E-05	0.00092592
SFRP2	21.7970275	-3.560963107	0.85782444	-4.15115602	3.31E-05	0.00162063
SCN3B	155.419203	-3.556996045	0.91765253	-3.87619055	0.0001061	0.00359472
KCNMB2	11.6626885	-3.556748289	1.21380213	-2.93025379	0.00338685	0.03669418
DAB1	36.9519299	-3.556721612	0.67295434	-5.28523465	1.26E-07	3.91E-05
RTN4RL1	14.6663275	-3.555146737	1.19694425	-2.97018574	0.0029762	0.03390646
SLITRK1	127.127789	-3.554379679	1.09207506	-3.25470272	0.00113511	0.01771069
PCLO	156.747396	-3.551652315	0.94446725	-3.76048224	0.00016959	0.00501712
APOD	1370.75824	-3.544014985	0.69842699	-5.07428127	3.89E-07	7.78E-05
MLIP	53.8895211	-3.53812679	1.11320001	-3.17833879	0.00148122	0.02121538
CPNE9	23.0068	-3.533592039	1.11615915	-3.16584963	0.00154631	0.02183541
AKR1E2	18.4256761	-3.526537759	0.92251694	-3.82273494	0.00013198	0.00419241
NRG3	80.0719556	-3.510527095	1.02262497	-3.43285876	0.00059725	0.01153591
C4orf22	31.8814995	-3.505224879	1.04874684	-3.3422984	0.00083088	0.0143276
CHGB	117.659338	-3.502210462	0.83943459	-4.17210643	3.02E-05	0.00152753
VSTM2A	40.602573	-3.500568787	1.20140088	-2.91373915	0.00357128	0.03814501
L1CAM	164.036872	-3.498067762	1.07291009	-3.26035498	0.00111273	0.01754333
SYT5	97.2063552	-3.490247976	1.02037477	-3.42055497	0.00062494	0.01189287
SYTL2	268.917179	-3.489921807	0.70012254	-4.98472999	6.20E-07	0.00011137
VIT	7.51372079	-3.489788506	0.98415068	-3.54599004	0.00039114	0.00892316
STL	3.22804383	-3.489577618	1.19876621	-2.9109743	0.00360304	0.03830156
HS3ST4	20.8442123	-3.485769036	1.08083739	-3.22506334	0.00125945	0.01908349
RELN	20.4662303	-3.485380888	1.15042958	-3.02963427	0.0024485	0.02987988
PAK3	157.340075	-3.484225274	0.95020321	-3.66682119	0.00024558	0.00652554

JAKMIP1	132.140341	-3.47113116	0.90358025	-3.84153059	0.00012227	0.00396644
OR2W3	3.18717237	-3.459726789	1.14386652	-3.02458959	0.00248971	0.03014419
FAM19A4	46.3023905	-3.457706274	1.11470026	-3.10191574	0.00192273	0.0254188
TNRC6B	55.2906784	-3.457356163	0.93634221	-3.69240662	0.00022214	0.00613527
MCTP1	51.5063857	-3.454956634	0.78273712	-4.41394248	1.02E-05	0.00068669
OPCML	181.461902	-3.454852674	0.96145648	-3.59335315	0.00032645	0.00794047
DOK6	110.953973	-3.451198012	0.98024532	-3.5207493	0.00043033	0.0095023
ENPP5	82.3811129	-3.447908271	0.79551455	-4.33418629	1.46E-05	0.00091732
ZNF831	15.1520342	-3.446825853	1.17614479	-2.93061354	0.00338293	0.03669418
WBSCR17	126.784111	-3.44052246	1.10212607	-3.12171406	0.00179801	0.02422922
RIMBP2	13.7754758	-3.436404258	1.15845081	-2.9663791	0.00301329	0.03410706
CALN1	101.634292	-3.432295528	1.03850306	-3.30504133	0.00094962	0.01560015
DGKB	744.409699	-3.423570163	0.94938209	-3.60610361	0.00031083	0.00771517
COL24A1	8.22396264	-3.417511788	0.98985826	-3.45252641	0.00055536	0.01098611
EPHB6	553.033949	-3.415059512	0.96243312	-3.54836032	0.00038764	0.0088624
RPS6KA6	65.6370591	-3.413994293	0.94272242	-3.62142051	0.00029299	0.00738038
KCNH3	98.977379	-3.412307278	1.11451716	-3.06169111	0.0022009	0.02788228
FAM196B	43.0624572	-3.409675539	0.9158518	-3.72295554	0.0001969	0.00563676
VIPR1	31.8985987	-3.408121637	1.00021071	-3.40740368	0.00065584	0.0123064
MORC1	7.31665553	-3.402126662	1.0118577	-3.36225802	0.00077308	0.01367454
FRK	21.962859	-3.396423856	0.84934313	-3.99888308	6.36E-05	0.00252227
KLHL32	86.86594	-3.393810333	0.92270151	-3.67812373	0.00023496	0.00631712
ACBD7	148.937358	-3.38049427	0.90583825	-3.73189613	0.00019004	0.00544965
C5orf64	5.06233121	-3.367064636	1.01782088	-3.30811119	0.00093928	0.01551974
ATP8A1	827.191477	-3.365347161	0.74696965	-4.50533321	6.63E-06	0.00051555
LHX6	9.60864686	-3.363450168	1.09648081	-3.06749571	0.00215861	0.02750054
SLC22A15	94.96357	-3.360933096	0.67165923	-5.00392602	5.62E-07	0.00010373
TRAM1L1	44.6823237	-3.357423589	1.01641623	-3.30319753	0.00095589	0.01564758
AIFM3	68.2704682	-3.356797568	1.05214179	-3.1904422	0.00142055	0.02073933
FAM178B	30.9315803	-3.356780381	0.98050467	-3.4235231	0.00061815	0.01181837
DOCK5	146.480387	-3.352127175	0.75747357	-4.42540483	9.63E-06	0.00066024
FSTL4	40.5195638	-3.349359982	1.18452038	-2.82760858	0.00468971	0.04566001
RFPL1-AS1	7.44260243	-3.348602543	1.04099402	-3.2167356	0.00129658	0.01943598
ZNF483	1003.76139	-3.34793125	0.63685922	-5.25694085	1.46E-07	4.29E-05
DNM3	106.503068	-3.345922115	0.57637676	-5.80509548	6.43E-09	4.70E-06
ANKRD7	7.06073943	-3.341691105	1.08617201	-3.07657634	0.00209393	0.02694207
APOB	4.51409976	-3.332464981	0.95169037	-3.5016273	0.00046243	0.00987371
DDX4	2.21093127	-3.326016693	1.14983153	-2.89261219	0.00382053	0.03977704
CDS1	26.7483984	-3.319727783	0.84666421	-3.92094972	8.82E-05	0.00316473
TRIM67	8.95274837	-3.319096081	1.10947174	-2.99160037	0.00277519	0.03218381
TF	2143.15728	-3.310196279	0.85952854	-3.85117667	0.00011755	0.00387396
EPHX4	23.6158066	-3.307545048	0.8888021	-3.72135154	0.00019816	0.00564385
NRIP2	15.2706815	-3.304405013	1.0250142	-3.22376511	0.00126517	0.01912696
EMBP1	4.72874001	-3.302745421	1.09080525	-3.02780485	0.00246337	0.03000642
UBE2QL1	109.01835	-3.299372911	0.92836666	-3.55395456	0.00037948	0.00873543
ENPP4	261.168182	-3.298894396	0.84780641	-3.89109398	9.98E-05	0.0034293
ATP1B1	2838.77381	-3.294362803	0.61831684	-5.3279526	9.93E-08	3.34E-05
DNAJC6	526.284488	-3.289381968	0.68849275	-4.77765663	1.77E-06	0.00022577

SSTR2	33.0032896	-3.287033396	0.88869791	-3.69870724	0.0002167	0.00602886
SYP	240.409659	-3.28142827	0.81923965	-4.00545586	6.19E-05	0.00248071
C7orf41	5615.99204	-3.275759762	0.76274897	-4.29467608	1.75E-05	0.00104994
KIF5A	4401.53334	-3.266901126	0.84144046	-3.88251015	0.00010338	0.00353102
PGR	6.74645064	-3.256635242	1.12321304	-2.89939229	0.00373887	0.03921844
SYN3	55.8015572	-3.255360457	0.945002	-3.44481858	0.00057144	0.01115276
CNTN6	22.7055831	-3.248313347	0.85180924	-3.81342818	0.00013705	0.00433715
SNCA	803.47765	-3.245368556	0.72474473	-4.47794711	7.54E-06	0.00055789
TLR8	15.1747299	-3.237178592	1.02901261	-3.14590759	0.00165572	0.02310861
PIP4K2A	504.360228	-3.234358214	0.64807418	-4.99072224	6.02E-07	0.00010987
PKP4	1539.75163	-3.233255879	0.70301382	-4.59913559	4.24E-06	0.00037568
BAI3	530.447561	-3.229184213	0.71460868	-4.51881473	6.22E-06	0.00048831
CECR7	8.9645078	-3.222050266	0.94587886	-3.40640902	0.00065823	0.01233108
ASP	205.620946	-3.216246724	1.11734197	-2.87848018	0.00399596	0.04117348
NEFH	89.2683003	-3.215115169	0.956582	-3.36104503	0.00077648	0.0136922
HAPLN2	417.650298	-3.210213387	1.12663076	-2.84939262	0.00438028	0.04383931
ANKS1B	53.3391185	-3.209860259	0.97581738	-3.28940672	0.00100399	0.01625339
BVES-AS1	7.47335003	-3.207442866	1.10470152	-2.9034475	0.00369079	0.03888402
PLA1A	13.005542	-3.199816903	1.06588083	-3.00204003	0.00268177	0.03155774
LOC650226	6.06105355	-3.199081946	1.1075149	-2.88852271	0.00387056	0.0400992
PLA2G7	57.771895	-3.190875068	0.77292701	-4.12830064	3.65E-05	0.00172503
TRIM2	569.341087	-3.189719385	0.79435152	-4.0155011	5.93E-05	0.00240194
IGFL4	9.97966134	-3.181909184	0.93262585	-3.41177461	0.00064541	0.01219971
ST18	255.672315	-3.178047001	1.08661257	-2.92472874	0.00344757	0.03716282
EPHA7	123.408997	-3.177803213	1.03322076	-3.0756285	0.00210059	0.02696591
KIF19	75.7767128	-3.17643231	1.12875199	-2.81411005	0.00489125	0.04712875
RHBDL2	39.1840753	-3.172407813	0.6939601	-4.57145567	4.84E-06	0.00040899
SGIP1	347.23813	-3.168366287	0.62081787	-5.10353593	3.33E-07	7.14E-05
RANBP3L	93.7340017	-3.16514094	0.61335246	-5.16039494	2.46E-07	5.92E-05
TMEM56	99.7055991	-3.155558963	0.61847008	-5.1022015	3.36E-07	7.14E-05
MAL	520.424238	-3.152650357	0.97535261	-3.23231857	0.0012279	0.0186899
OTOGL	7.76914583	-3.145041536	1.05647091	-2.9769315	0.00291149	0.03348712
ZNF488	63.6531353	-3.144908763	1.04860881	-2.99912487	0.00270756	0.0317501
NMNAT2	316.168901	-3.141508563	0.90251012	-3.48085688	0.00049981	0.01035616
C14orf162	20.8957448	-3.133104736	0.90585634	-3.45872144	0.00054275	0.01084471
LOC79015	12.3657749	-3.130889925	0.81297963	-3.8511296	0.00011757	0.00387396
RIMS3	111.770706	-3.124315758	0.86199321	-3.6245248	0.00028949	0.00732627
PRKCZ	153.928181	-3.11766043	0.85863506	-3.63094937	0.00028238	0.00720049
STXBP5L	233.681465	-3.114203385	0.89498078	-3.47963156	0.0005021	0.01037805
HHATL	169.164846	-3.113205185	0.93922272	-3.31466127	0.00091754	0.01528085
SEPP1	3079.33702	-3.102381748	0.78431688	-3.95552082	7.64E-05	0.00287089
LOC255167	10.9912268	-3.09765862	1.0751044	-2.88126309	0.00396085	0.04088336
NRIP3	57.6095748	-3.093503789	0.86229703	-3.58751531	0.00033384	0.00803713
CACNA1A	61.6007627	-3.087053846	0.67293801	-4.58742678	4.49E-06	0.00038639
LGI1	227.042564	-3.085670896	0.79521224	-3.88031113	0.00010432	0.00354867
ALDH1A1	211.330532	-3.080028263	0.66744107	-4.61468195	3.94E-06	0.00036551
DGKI	140.289645	-3.079619791	0.74003193	-4.16146879	3.16E-05	0.00159088
PDE1C	14.9954319	-3.079097493	0.88413025	-3.48262881	0.00049652	0.0103133

BSN	190.593591	-3.078946326	1.0124914	-3.04096048	0.00235825	0.02911682
ANLN	2265.86063	-3.076512344	0.72352702	-4.25210429	2.12E-05	0.0011987
C10orf90	45.463584	-3.075545109	0.83046937	-3.70338174	0.00021274	0.00594835
KIF2A	99.2286152	-3.069293472	0.92655242	-3.31259561	0.00092435	0.01537891
GUCY1B3	228.799647	-3.068231637	0.63508457	-4.8312174	1.36E-06	0.00019003
CLDND1	2974.77373	-3.064580623	0.63568288	-4.82092676	1.43E-06	0.00019522
KIAA1324L	272.409999	-3.055495442	0.67191213	-4.54746284	5.43E-06	0.00044339
RCAN2	271.938924	-3.050991008	0.83463272	-3.65548934	0.00025669	0.00672925
CYP4X1	66.9548223	-3.050302751	0.97738052	-3.12089578	0.00180302	0.02427718
CPEB1	76.8471352	-3.042843269	0.84426426	-3.60413608	0.00031319	0.00774392
FBXL16	559.360562	-3.041274859	1.05259184	-2.88932018	0.00386076	0.04007175
TM6SF1	51.9685904	-3.037344012	0.95242281	-3.18907105	0.00142731	0.02078378
CTNNA3	223.771178	-3.02613494	0.86506797	-3.498147	0.0004685	0.00991527
NPTN	38.2876625	-3.023181767	1.02024931	-2.96317943	0.00304479	0.03431566
LGI4	79.7073971	-3.023125109	0.72140881	-4.19058521	2.78E-05	0.00146129
MATK	83.1468915	-3.020855658	0.94237402	-3.20558037	0.0013479	0.01993854
MYH11	45.2850206	-3.015178404	0.79614857	-3.78720572	0.00015235	0.00464629
4-Sep	183.0944	-3.008833428	0.87927312	-3.42195543	0.00062173	0.01185324
BCAS1	4204.47933	-3.008586809	0.93936836	-3.20277641	0.0013611	0.02009829
PRRG1	103.752074	-3.006709521	0.64591266	-4.65497849	3.24E-06	0.00032904
PLCL1	436.567048	-2.99946909	0.83811032	-3.57884759	0.00034511	0.00819106
RBP7	111.702701	-2.994815297	0.74345689	-4.0282299	5.62E-05	0.00233391
CLEC9A	49.5669353	-2.991973321	0.84753684	-3.53019856	0.00041525	0.00922993
LRMP	76.851821	-2.985592895	0.65037995	-4.59053647	4.42E-06	0.00038493
STOX1	38.027086	-2.976214419	0.64905429	-4.58546299	4.53E-06	0.00038639
SLC24A2	476.02039	-2.975479351	0.94706998	-3.14177349	0.00167928	0.02332537
EXTL1	8.99022644	-2.970073443	1.05440696	-2.81681889	0.00485019	0.04689444
CCNB3	9.61770193	-2.968668602	0.85053131	-3.49036956	0.00048235	0.01014451
DOC2A	38.6408756	-2.961871882	0.84651062	-3.49891875	0.00046715	0.00991158
REPS2	228.612034	-2.958506419	0.8122956	-3.64215491	0.00027037	0.00698957
KIF5C	1061.66572	-2.957677166	0.73552894	-4.02115674	5.79E-05	0.00238832
USP17	477.229408	-2.954899064	0.81205252	-3.63880291	0.00027391	0.0070656
MIAT	108.554009	-2.954768877	0.92376261	-3.1986236	0.00138085	0.02030084
TUBA4A	312.034015	-2.949526628	0.8094588	-3.64382553	0.00026862	0.00696576
ENC1	1148.99547	-2.933291012	0.77393192	-3.79011504	0.00015058	0.00460893
JPH4	136.323787	-2.929350453	1.04619539	-2.8000032	0.00511021	0.04835133
SLC39A12	31.899043	-2.924102723	0.78782236	-3.71162697	0.00020593	0.00579643
KCNH8	180.726269	-2.924085419	0.79187789	-3.69259637	0.00022198	0.00613527
CCT6B	10.2580352	-2.921993806	0.90779798	-3.21877101	0.00128741	0.01935034
DGKE	62.6985983	-2.918102622	0.6217432	-4.69342103	2.69E-06	0.00029384
LOC150622	208.564215	-2.910285034	0.8416604	-3.45779015	0.00054463	0.01086922
CA1	15.1345833	-2.909853317	0.99643395	-2.92026715	0.00349731	0.03760005
OR9A2	43.2367897	-2.905446531	0.69333238	-4.19055362	2.78E-05	0.00146129
MAPK8	31.6834958	-2.904807189	0.96323307	-3.01568467	0.002564	0.03079725
HLF	230.781679	-2.902497909	0.85882731	-3.37960596	0.0007259	0.01321356
PICALM	72.9639846	-2.900653479	0.55999413	-5.17979265	2.22E-07	5.46E-05
STEAP4	17.8100931	-2.899560633	0.86110786	-3.3672444	0.00075923	0.01360145
GPR15	6.62047775	-2.898744886	0.83090242	-3.48867067	0.00048543	0.01019643

FUT9	74.5462075	-2.896113092	0.73501129	-3.94022941	8.14E-05	0.00296817
FAM162B	34.5511303	-2.895735548	0.70311515	-4.11843714	3.81E-05	0.00178549
NBEAP1	9.27970874	-2.895681894	0.95344382	-3.03707659	0.00238885	0.0294082
PRDM8	137.58245	-2.891737507	0.75983326	-3.80575271	0.00014137	0.0044075
ADCY1	143.764844	-2.891316239	0.89691021	-3.22364067	0.00126572	0.01912696
TM7SF4	8.57622969	-2.887993389	0.94312898	-3.06214043	0.0021976	0.02788228
TAS2R39	74.1519756	-2.886511693	0.67806349	-4.25699321	2.07E-05	0.00118425
CYP2J2	73.9161046	-2.886461905	0.64322895	-4.48745645	7.21E-06	0.00054278
PPP1R16B	340.60854	-2.880533001	0.91686478	-3.14172062	0.00167958	0.02332537
PDE1B	150.593147	-2.880214663	0.7200771	-3.99986981	6.34E-05	0.00251771
LAMP5	98.3277813	-2.880124252	0.84223121	-3.41963609	0.00062705	0.01191962
PLLP	324.597728	-2.879166293	0.8014203	-3.59257971	0.00032742	0.00795083
ENPP2	326.537119	-2.873944615	0.88711135	-3.23966614	0.0011967	0.01838144
C1orf173	23.2829725	-2.865261146	0.7540193	-3.79998383	0.00014471	0.00448641
FAM81A	102.77476	-2.861374042	0.76935137	-3.71920315	0.00019985	0.00567283
FMN1	251.622866	-2.861041091	0.64464721	-4.43815011	9.07E-06	0.00064064
TMEM191A	4.65959092	-2.855830031	0.86276007	-3.31010918	0.0009326	0.01547159
C21orf91	309.216753	-2.855446143	0.79838092	-3.57654607	0.00034816	0.00824021
PCDH7	130.021418	-2.851689206	0.88475343	-3.22314569	0.00126791	0.01914283
CCDC91	611.583074	-2.849228758	0.68665942	-4.14940607	3.33E-05	0.00162832
PDE2A	311.44461	-2.845038499	0.8066284	-3.52707455	0.00042018	0.00932718
FABP3	383.19347	-2.843166561	0.65710027	-4.32683824	1.51E-05	0.00094143
GSTO2	19.7888778	-2.837759722	0.61484158	-4.61543234	3.92E-06	0.00036551
CLDN11	528.138823	-2.834126227	0.85665575	-3.30836073	0.00093844	0.01551974
CADPS2	289.633332	-2.828966738	0.72104561	-3.92342272	8.73E-05	0.0031413
HMSD	17.9528387	-2.827313666	0.9580159	-2.9512179	0.00316524	0.0351544
LOC729080	5.8504002	-2.82533813	0.86391909	-3.27037353	0.00107406	0.01712375
CRHR1	78.0297209	-2.823443312	0.99668397	-2.8328371	0.00461369	0.0451976
AFF2	35.4256765	-2.822025053	0.94256256	-2.99399232	0.00275353	0.03197671
RAB11FIP4	236.806723	-2.820954546	0.83688717	-3.37077044	0.00074958	0.01351728
DDX25	26.8515249	-2.819854027	0.78698666	-3.58310269	0.00033954	0.0081392
ADAMTSL3	40.7957401	-2.818820359	0.67299063	-4.18849869	2.81E-05	0.00146542
S100A1	1555.19619	-2.812965055	0.7959226	-3.53421936	0.00040898	0.00915117
C9orf4	509.629637	-2.811138111	0.73223948	-3.83909662	0.00012349	0.00399825
CACNA2D1	368.95148	-2.811114323	0.76379996	-3.68043267	0.00023284	0.00629038
ATP2B2	351.184872	-2.805548287	0.86374519	-3.2481203	0.0011617	0.01792583
EVI2B	29.749699	-2.804793318	0.8077902	-3.47218044	0.00051625	0.01054077
LINC00032	9.64507782	-2.804377822	0.73704984	-3.80486863	0.00014188	0.00441508
NEBL	85.9265009	-2.804308047	0.69219159	-4.05134663	5.09E-05	0.00219416
CACNA2D3	125.632535	-2.801383081	0.95008407	-2.94856335	0.00319255	0.03534095
BIN1	102.259498	-2.800547986	0.83481769	-3.35468212	0.00079456	0.01389169
TUBA8	188.964173	-2.800437013	0.82949605	-3.37607032	0.00073529	0.01332884
CYP7B1	49.5015295	-2.799600287	0.87190341	-3.21090646	0.00132317	0.01966384
KEL	29.6650745	-2.797584463	0.68780178	-4.06742833	4.75E-05	0.00206937
GSTM5	29.5494294	-2.790238517	0.81543699	-3.42177086	0.00062215	0.01185324
P2RY13	208.503967	-2.784659055	0.77058109	-3.61371319	0.00030184	0.00753666
RERG	20.387917	-2.77943946	0.70893873	-3.9205637	8.83E-05	0.00316473
FLRT2	21.9806271	-2.774399192	0.85441484	-3.24713367	0.00116574	0.01797159

RAB3A	854.895352	-2.7707433	0.85552452	-3.23864861	0.00120097	0.01842218
SIDT1	47.8349024	-2.770633574	0.79032902	-3.50567104	0.00045546	0.00979963
ACER2	159.069286	-2.768021821	0.6243816	-4.43322132	9.28E-06	0.00065044
SYT15	42.570087	-2.757016195	0.70535374	-3.90870007	9.28E-05	0.00325535
CPM	215.34324	-2.751596173	0.78881185	-3.48827948	0.00048614	0.01019861
FAM188A	743.595194	-2.751132487	0.59467492	-4.62627966	3.72E-06	0.00035545
CNTN1	363.362106	-2.750005464	0.69378624	-3.96376479	7.38E-05	0.00281122
NCALD	205.93273	-2.750002578	0.76654586	-3.5875252	0.00033383	0.00803713
NALCN	127.080863	-2.749161379	0.89743403	-3.06335763	0.00218868	0.02781458
EPB49	157.119626	-2.74781397	0.77051851	-3.56618814	0.00036221	0.00846537
ENTPD3	46.2674473	-2.747679875	0.96740918	-2.84024582	0.00450788	0.04461153
PCDHA13	4.88321756	-2.745654563	0.8590088	-3.1963055	0.001392	0.02044677
SLC25A16	358.474141	-2.744897543	0.60644452	-4.5262138	6.00E-06	0.00047824
MAP3K9	107.176628	-2.744792031	0.98382781	-2.789911	0.00527225	0.04932903
TMEM171	9.12553852	-2.742733614	0.90118619	-3.04347053	0.00233866	0.02900288
ABCB1	41.9563407	-2.736271618	0.87160573	-3.13934561	0.00169326	0.02344707
LOC100129794	12.4294819	-2.733726193	0.81536217	-3.35277534	0.00080006	0.01394621
FBXO2	75.9205649	-2.730951091	0.72510536	-3.76628178	0.0001657	0.00493437
PRR18	39.7667532	-2.730186348	0.72989961	-3.74049571	0.00018366	0.00532315
RBP4	80.0913698	-2.729593242	0.87025627	-3.13653959	0.00170954	0.02360385
NT5DC1	92.2467026	-2.727035455	0.61415677	-4.44029212	8.98E-06	0.00063851
FGF12	111.402594	-2.726155949	0.89515098	-3.04547053	0.00232317	0.02888055
SLC45A3	20.151773	-2.723557335	0.89954665	-3.02769994	0.00246423	0.03000642
MAN2A1	1517.46311	-2.721928704	0.65497076	-4.15580185	3.24E-05	0.00160206
EPB41L4B	25.5555308	-2.718411204	0.86980955	-3.12529472	0.00177627	0.02405193
AKD1	13.0036321	-2.718132791	0.57918078	-4.69306454	2.69E-06	0.00029384
FAM13C	177.395538	-2.715627472	0.67616918	-4.01619529	5.91E-05	0.00240067
KCNA6	94.1754334	-2.713515073	0.56765905	-4.78018467	1.75E-06	0.00022465
CXorf1	24.2140799	-2.709976026	0.89578807	-3.02524236	0.00248434	0.03013099
EPCAM	19.5749134	-2.705742241	0.61368334	-4.40902021	1.04E-05	0.00069243
RERGL	37.4946539	-2.705031132	0.88758807	-3.04761999	0.00230661	0.02875397
GABBR1	612.447876	-2.704217195	0.80580717	-3.35591105	0.00079104	0.01387645
FAM108B1	18.7782439	-2.699467811	0.8512402	-3.1712175	0.00151801	0.02161755
RUNDC3A	551.386445	-2.697777637	0.87888559	-3.06954358	0.00214386	0.02739577
TMEM35	67.093784	-2.695012485	0.71313006	-3.77913179	0.00015738	0.00476495
FOSB	134.907491	-2.69430567	0.95406489	-2.8240277	0.00474243	0.04606461
TMTC4	113.673533	-2.693219601	0.56926524	-4.73104519	2.23E-06	0.00026312
GALNT14	32.9739771	-2.692449446	0.74981183	-3.5908335	0.00032962	0.00799274
TCEAL6	116.248194	-2.689689992	0.94951109	-2.83271044	0.00461552	0.0451976
PAR1	158.204216	-2.689046098	0.92972912	-2.89228985	0.00382445	0.03977776
ZNF702P	18.5748011	-2.688676909	0.79752249	-3.37128662	0.00074818	0.01351728
ATL1	492.374267	-2.687102832	0.52893136	-5.08024863	3.77E-07	7.63E-05
NME9	19.6459211	-2.683668601	0.65809765	-4.07791851	4.54E-05	0.00203388
ERC2	126.398055	-2.682297517	0.79519027	-3.37315182	0.00074313	0.01344193
CCDC152	42.260502	-2.67690792	0.74886322	-3.57462864	0.00035073	0.00828915
DEPDC7	19.5473636	-2.674639125	0.88459402	-3.02357812	0.00249805	0.03022113
BTBD10	462.363818	-2.670407671	0.5477531	-4.87520323	1.09E-06	0.00016455
GFRA1	27.0109706	-2.668091704	0.79504736	-3.35589029	0.0007911	0.01387645

OR6W1P	16.4346874	-2.65719854	0.70549157	-3.76644973	0.00016559	0.00493437
SLC6A13	15.9236762	-2.654989509	0.72890032	-3.64245896	0.00027005	0.00698957
TPPP	329.959099	-2.654537377	0.90294472	-2.93986698	0.00328353	0.03601597
TPD52L1	139.152683	-2.654067467	0.72297723	-3.67102497	0.00024158	0.00644366
PPM1H	88.8025904	-2.653574638	0.62199378	-4.26623981	1.99E-05	0.00115191
DAAM2	734.133275	-2.650586091	0.67253096	-3.94121054	8.11E-05	0.00296817
RAPGEF4	1108.97043	-2.650110137	0.80906958	-3.27550338	0.00105474	0.01689593
SH3BGR12	139.30811	-2.646063462	0.64466019	-4.10458644	4.05E-05	0.00185964
DMC1	17.3160778	-2.644407136	0.78566709	-3.36581127	0.00076319	0.013637
FAIM2	774.8003	-2.642141954	0.7842725	-3.36890806	0.00075467	0.013563
HOXD-AS1	35.3952334	-2.641094284	0.86166911	-3.06509105	0.00217604	0.02768065
VWA3A	34.6930378	-2.639867835	0.71753808	-3.67906306	0.00023409	0.00630681
GAD1	211.204652	-2.639030635	0.87014069	-3.03287809	0.00242233	0.02965194
IL18	210.859398	-2.632777164	0.81717715	-3.22179489	0.0012739	0.01921604
QDPR	560.73642	-2.630526774	0.53752273	-4.89379636	9.89E-07	0.0001511
TXNRD1	7.189758	-2.628625245	0.87244023	-3.01295741	0.00258715	0.03095989
KIAA0319	140.598264	-2.627010707	0.8131747	-3.23056129	0.00123547	0.01877906
GLDN	312.11731	-2.625760077	0.8720602	-3.01098489	0.00260402	0.03104604
SRRM3	65.2260428	-2.624772874	0.82568182	-3.17891568	0.00147827	0.02121338
TMEM74	6.10730123	-2.616107864	0.87022889	-3.00622961	0.00264509	0.03127227
ACSL6	90.0115982	-2.615721119	0.8167016	-3.20278683	0.00136105	0.02009829
AJAP1	87.864304	-2.615046235	0.82599401	-3.16593851	0.00154583	0.02183541
CACNA1E	146.146826	-2.615010166	0.93174128	-2.80658401	0.00500699	0.04778992
GLT8D2	25.2846145	-2.614176147	0.70803282	-3.69216806	0.00022235	0.00613527
MICAL2	256.46755	-2.613106541	0.67078608	-3.8955885	9.80E-05	0.00338014
GNAI1	486.678464	-2.606030356	0.61298924	-4.25134764	2.12E-05	0.0011987
STK31	6.63175243	-2.603414519	0.92943582	-2.80106971	0.00509335	0.04830923
TMEM139	9.07289324	-2.603206345	0.89826273	-2.8980456	0.00375496	0.03933812
NCAM2	115.049403	-2.602720443	0.719075	-3.61953963	0.00029513	0.00741304
CLMN	101.06973	-2.601780223	0.63695599	-4.08470956	4.41E-05	0.00199353
PPAP2C	75.1950827	-2.596992878	0.7971457	-3.25786475	0.00112254	0.01757769
CACNB4	255.50898	-2.595499585	0.62160353	-4.17549044	2.97E-05	0.00151872
CX3CR1	13.1087207	-2.593259234	0.78965894	-3.2840244	0.00102336	0.01647705
ARRB1	108.323012	-2.588854253	0.69795332	-3.7092083	0.00020791	0.00584229
PHACTR1	210.286605	-2.587991326	0.71931529	-3.59785391	0.00032085	0.00787099
KIAA0513	476.496258	-2.584712135	0.76889655	-3.36158634	0.00077496	0.0136922
PLEKHA1	277.955338	-2.583753234	0.50705359	-5.09562163	3.48E-07	7.30E-05
ZNF492	15.2119549	-2.583665469	0.86191679	-2.99758109	0.00272131	0.03186383
KCNMA1	20.6345871	-2.58307362	0.6403839	-4.03363301	5.49E-05	0.00231302
UNC79	69.9718186	-2.578092592	0.68200103	-3.78018868	0.00015671	0.00475866
RTN3	15.8437914	-2.575121837	0.8462929	-3.04282576	0.00234368	0.02902225
SLC6A1	241.421763	-2.57381008	0.5567205	-4.62316387	3.78E-06	0.00035862
VAT1L	49.3807699	-2.573219328	0.90765373	-2.83502315	0.00458224	0.04512029
CA11	967.746936	-2.572428053	0.72144348	-3.56566818	0.00036293	0.00847039
GPR34	104.998738	-2.568939759	0.7890009	-3.25594022	0.00113018	0.01765006
GPR85	64.8699551	-2.566109685	0.60382511	-4.24975653	2.14E-05	0.0011987
C10orf128	105.301293	-2.56366182	0.73046461	-3.50963179	0.00044873	0.00974214
ST6GALNAC3	202.243542	-2.560399607	0.73684956	-3.47479287	0.00051125	0.01050246

HECW2	133.224172	-2.559769256	0.54301857	-4.71396265	2.43E-06	0.00027772
FOLH1	496.333965	-2.558227802	0.81391833	-3.14310135	0.00167168	0.02329262
ZNF876P	6.93169179	-2.557639382	0.88544845	-2.88852431	0.00387054	0.0400992
DIRAS2	432.80419	-2.552989661	0.90143092	-2.83215231	0.00462358	0.0451976
TMTC1	130.111621	-2.548743465	0.59321299	-4.29650648	1.74E-05	0.00104869
AGTPBP1	163.630889	-2.545958046	0.55349603	-4.59977656	4.23E-06	0.00037568
LOC100505576	221.707554	-2.544744747	0.71971712	-3.53575684	0.00040661	0.00914276
KLHL2	771.002758	-2.544743882	0.58238418	-4.36952779	1.25E-05	0.00080786
IDI1	737.554542	-2.544226481	0.54772173	-4.64510778	3.40E-06	0.00033797
THSD7B	8.13937471	-2.544179963	0.82750496	-3.0745193	0.00210842	0.0270251
TAS2R40	66.3261434	-2.540983332	0.67529653	-3.76276677	0.00016804	0.00498906
OTUD7A	66.6278448	-2.540702404	0.65117884	-3.90169682	9.55E-05	0.00332511
SH3TC2	94.9400488	-2.539273486	0.86656361	-2.93027938	0.00338657	0.03669418
DNAH6	27.4855911	-2.538235016	0.76030378	-3.33844849	0.00084248	0.01441647
ENPP6	80.2678026	-2.538021899	0.87303513	-2.90712461	0.00364768	0.03855069
LRRC8B	49.7565694	-2.535779391	0.59874961	-4.23512495	2.28E-05	0.00126681
RNF125	47.5721897	-2.534233211	0.74377444	-3.40726042	0.00065618	0.0123064
FOXP2	78.9610165	-2.532486574	0.87875862	-2.88189101	0.00395296	0.04082705
CABLES1	318.9885	-2.515652366	0.81939078	-3.07014971	0.00213951	0.02737439
CHN2	181.359193	-2.514526808	0.62039577	-4.05310116	5.05E-05	0.00218336
HPCA	109.087062	-2.514008596	0.86486285	-2.9068292	0.00365112	0.03856286
LPGAT1	311.726799	-2.511141711	0.55864249	-4.49507826	6.95E-06	0.00052879
TTL7	604.587286	-2.510167465	0.5205794	-4.82187241	1.42E-06	0.00019522
RPS6KA5	175.257864	-2.50938631	0.50599124	-4.95934736	7.07E-07	0.00011886
TUSC3	380.431458	-2.508956065	0.72951279	-3.43922149	0.00058339	0.01132019
KCNB1	25.5144405	-2.506582279	0.85744351	-2.92332059	0.0034632	0.03728095
C9orf30-TMEFF1	577.181544	-2.504043824	0.5235846	-4.78250089	1.73E-06	0.00022379
SLC25A48	27.5399463	-2.502056651	0.87784718	-2.85021892	0.00436891	0.04375778
PKP2	8.46840321	-2.495899337	0.8690179	-2.87209197	0.00407764	0.04180641
KCNAB2	222.984941	-2.495537082	0.77828485	-3.20645721	0.0013438	0.01989539
SLC30A10	43.6457911	-2.49335164	0.50502725	-4.93706354	7.93E-07	0.00012886
CCDC7	312.506835	-2.490417628	0.46689889	-5.33395496	9.61E-08	3.34E-05
SPOCK1	1310.46265	-2.487935597	0.69729196	-3.56799695	0.00035972	0.00841887
NEK10	15.183239	-2.484017078	0.83045863	-2.99113885	0.00277939	0.03221026
GVINP1	15.7045329	-2.479850657	0.74757155	-3.31720846	0.00090922	0.01520248
RAB27B	125.20101	-2.479112018	0.8560067	-2.89613624	0.00377788	0.03947982
SCN1B	409.161672	-2.475167929	0.65549962	-3.77600211	0.00015937	0.00481651
TMEM63C	34.4873205	-2.473921128	0.73855528	-3.34967633	0.00080906	0.01405941
REEP1	195.94263	-2.472554586	0.6589186	-3.75244316	0.00017512	0.00514841
CFH	281.439817	-2.472271782	0.81035737	-3.05084137	0.00228201	0.0286171
FBXW7	975.421142	-2.467002342	0.66993687	-3.68244001	0.00023101	0.00626118
SGK3	126.911306	-2.462915933	0.61008337	-4.03701536	5.41E-05	0.00228566
DNM3OS	60.3402533	-2.462603647	0.58918631	-4.17966885	2.92E-05	0.00149563
KCNJ6	138.245771	-2.458484977	0.77895121	-3.15614759	0.00159868	0.02249934
NLK	716.163689	-2.45804313	0.51648021	-4.75922035	1.94E-06	0.00024013
KIT	24.3449379	-2.457861411	0.77336314	-3.17814659	0.0014822	0.02121538
MAMDC2	19.2837539	-2.452111598	0.64631342	-3.79399763	0.00014824	0.00455401
SLC6A20	6.9598493	-2.4494963	0.86081092	-2.84556834	0.00443322	0.044185

ACTR3B	41.3429147	-2.440134112	0.66762595	-3.65494201	0.00025724	0.00673312
TMEM181	1004.12129	-2.439338921	0.71131456	-3.42933923	0.00060505	0.01161978
BTBD8	41.4048484	-2.436984395	0.67420623	-3.61459787	0.00030081	0.00752214
MAP1A	605.928757	-2.436235077	0.63935164	-3.81047758	0.0001387	0.00437271
KIRREL3	95.446762	-2.435292203	0.5885054	-4.13809658	3.50E-05	0.00168136
SEMA3C	54.2271457	-2.424442234	0.69633545	-3.48171593	0.00049821	0.01033574
POPDC3	29.179236	-2.421884237	0.8170188	-2.96429438	0.00303378	0.03423749
STXBP5	191.406876	-2.421194118	0.54752105	-4.42210236	9.77E-06	0.00066498
PPP3CB	143.032994	-2.420417662	0.59364013	-4.0772474	4.56E-05	0.00203388
NINJ2	96.4895583	-2.417554099	0.78361613	-3.08512548	0.00203466	0.02638154
MAP2	2230.99592	-2.411090029	0.79203915	-3.04415511	0.00233335	0.02897973
EGR3	159.27316	-2.410083821	0.68874823	-3.49922324	0.00046662	0.00991158
FCGR1B	30.1143326	-2.408865857	0.7288516	-3.30501552	0.00094971	0.01560015
ELOVL4	38.1405531	-2.406892949	0.71223534	-3.37935063	0.00072657	0.01321356
ATE1	62.9514805	-2.406485033	0.52202143	-4.60993529	4.03E-06	0.00037167
CLDN10	125.403898	-2.402818642	0.76187346	-3.15382905	0.00161143	0.02264092
AKT3	3489.28582	-2.400535815	0.46943374	-5.113684	3.16E-07	7.08E-05
C11orf41	128.512544	-2.39958414	0.80053626	-2.99747089	0.0027223	0.03186383
GRIN2C	24.2028842	-2.398346709	0.78629862	-3.05017285	0.0022871	0.02864191
TRPC3	10.8719838	-2.395647942	0.78604253	-3.04773322	0.00230575	0.02875397
CYFIP2	303.901543	-2.395440529	0.64624676	-3.7066964	0.00020998	0.00589067
MEGF10	260.235468	-2.38935638	0.72082601	-3.31474772	0.00091726	0.01528085
GIMAP4	63.3896681	-2.381638304	0.66641537	-3.57380456	0.00035183	0.00830362
SLIT3	39.9128839	-2.381147244	0.69116223	-3.44513507	0.00057077	0.01115266
STXBP1	891.274644	-2.378763654	0.66593902	-3.57204426	0.00035421	0.00834249
PCP4	103.127355	-2.375405951	0.82371731	-2.88376353	0.00392954	0.04061005
PRKACB	1050.2612	-2.374400027	0.48450897	-4.90063168	9.55E-07	0.00014844
ITM2A	498.36179	-2.374269338	0.7784496	-3.0499975	0.00228843	0.02864191
PYGM	57.2491976	-2.359501621	0.65663994	-3.59329594	0.00032652	0.00794047
FSIP1	101.188581	-2.357735016	0.63384948	-3.71970806	0.00019945	0.00567109
AKAP6	327.503126	-2.352191061	0.54970345	-4.27901822	1.88E-05	0.00109911
PPARG	53.5059249	-2.35152967	0.7850516	-2.99538229	0.00274101	0.03192568
KIAA1804	44.4238839	-2.348316555	0.72005321	-3.26130976	0.00110899	0.01751451
PNCK	47.5763309	-2.345040256	0.81955529	-2.86135697	0.00421832	0.04290604
AMN1	76.7239156	-2.337394877	0.62520335	-3.73861541	0.00018504	0.00534253
ADAM28	34.8417881	-2.335099837	0.6721218	-3.47422123	0.00051234	0.01051201
CCNE2	53.5104828	-2.332551115	0.72405546	-3.22150891	0.00127517	0.01921797
NUAK1	268.791281	-2.331317684	0.52341752	-4.45403063	8.43E-06	0.00060518
NIPAL2	36.0760404	-2.325540128	0.76488835	-3.04036545	0.00236291	0.029153
TTC39C	74.907512	-2.324877306	0.68358304	-3.40101664	0.00067136	0.01249334
CAB39L	72.1296797	-2.321033791	0.63204516	-3.67225944	0.00024042	0.0064228
SYNPO2	33.9178951	-2.319520864	0.76478772	-3.03289503	0.0024222	0.02965194
DNAJC12	230.628684	-2.311552267	0.62520553	-3.6972678	0.00021793	0.00604313
HERC2P4	15.6051014	-2.309733168	0.80791492	-2.85888168	0.00425137	0.0430881
DOCK9	608.335559	-2.305487825	0.55330141	-4.16678464	3.09E-05	0.00155892
RTN2	21.8717874	-2.305041526	0.77578088	-2.97125333	0.00296587	0.03381172
CABYR	23.8398892	-2.302620484	0.71713992	-3.21083852	0.00132348	0.01966384
BCL11A	105.176135	-2.301266627	0.77006367	-2.98841087	0.00280432	0.03241673

NTN4	68.7955507	-2.300409483	0.4623104	-4.97589823	6.49E-07	0.00011488
BCO2	26.6210406	-2.297697376	0.65229493	-3.52248233	0.00042753	0.00945281
CD86	159.417484	-2.292363168	0.82016768	-2.79499331	0.00519008	0.04883208
PDK4	1659.12799	-2.292044514	0.67209522	-3.41029732	0.00064892	0.01222474
SAMD3	31.830272	-2.29020877	0.68761783	-3.33064191	0.00086646	0.01475176
CMTM5	142.012769	-2.286614329	0.7010796	-3.26156165	0.001108	0.01751451
KIF1A	768.941384	-2.2835034	0.69239662	-3.29797019	0.00097386	0.01587277
ENOX1	25.5459573	-2.28110248	0.56373977	-4.04637497	5.20E-05	0.00222983
CLSTN2	243.74059	-2.279420405	0.75706448	-3.01086694	0.00260503	0.03104604
HOMER1	429.876949	-2.277996709	0.80222071	-2.83961343	0.00451682	0.04462122
KIAA1324	62.5116088	-2.276881117	0.62589694	-3.63778917	0.00027499	0.0070656
CNNM2	76.7220624	-2.275527763	0.58461467	-3.8923549	9.93E-05	0.00341851
ADD3	128.866404	-2.27341691	0.56959305	-3.99130029	6.57E-05	0.00257461
CXorf21	78.2759633	-2.272571016	0.76367862	-2.9758212	0.00292205	0.03349397
LOC283070	405.145095	-2.272446438	0.66010787	-3.44253801	0.00057628	0.01123417
GLT1D1	81.390034	-2.270365427	0.79657075	-2.85017423	0.00436953	0.04375778
CAMK1D	302.936453	-2.270078111	0.54795964	-4.14278343	3.43E-05	0.00165682
TMCC2	209.449248	-2.264183427	0.75753888	-2.98886763	0.00280013	0.03240596
KCNQ3	330.741467	-2.263124412	0.72527003	-3.12038873	0.00180613	0.02429954
KCNA2	116.714368	-2.260326456	0.78103087	-2.89402959	0.00380332	0.03962247
IFIT1	353.35004	-2.257241541	0.80296612	-2.81112924	0.0049368	0.04737744
CAMKK1	126.862225	-2.254002672	0.79971702	-2.81850031	0.00482486	0.04673019
NSF	1078.17369	-2.252854922	0.58897753	-3.82502692	0.00013076	0.00416936
NAP1L5	83.4760333	-2.250022413	0.66325875	-3.392375	0.0006929	0.01278092
SGMS1	157.188112	-2.24996938	0.5114334	-4.39933991	1.09E-05	0.00071834
PLAC8	54.8375821	-2.248874833	0.78661587	-2.85892381	0.00425081	0.0430881
TPIIP3	11.8214776	-2.248872933	0.7999455	-2.81128269	0.00493444	0.04737744
CAMKK2	243.657531	-2.241769622	0.65934713	-3.39998391	0.0006739	0.01251291
DEPTOR	286.522883	-2.240538854	0.60965487	-3.67509383	0.00023776	0.00637217
CNTNAP3	26.8056417	-2.23923172	0.76913035	-2.91138131	0.00359835	0.03829424
TSC22D2	29.5604367	-2.238090779	0.57202401	-3.91258188	9.13E-05	0.00324408
SELENBP1	67.6023626	-2.237632262	0.73981899	-3.02456724	0.00248989	0.03014419
GOT1	337.904561	-2.235608688	0.62022414	-3.60451736	0.00031273	0.00774392
FAM65B	40.1248465	-2.235308821	0.59660303	-3.74672727	0.00017916	0.00525401
SVIP	55.1279037	-2.231615839	0.62477912	-3.57184767	0.00035447	0.00834249
SLC44A1	957.080701	-2.231443188	0.55132292	-4.04743411	5.18E-05	0.00222544
3-Sep	1148.52338	-2.225260568	0.71509478	-3.11184004	0.00185925	0.02475663
MAPK10	1459.27832	-2.221958741	0.5460122	-4.0694306	4.71E-05	0.00205699
PRKAR2B	264.926373	-2.221689454	0.64131104	-3.46429319	0.00053163	0.01074772
SLC2A12	36.8988743	-2.219281887	0.59127086	-3.75340989	0.00017445	0.00514277
PLEKHH1	291.386675	-2.217355803	0.79224325	-2.79883207	0.00512878	0.04849973
FAM55C	243.517786	-2.21474449	0.54206427	-4.08576	4.39E-05	0.00198988
LOC644242	97.8613311	-2.211737282	0.73580556	-3.00587194	0.00264821	0.03127227
EFHA2	62.2297786	-2.211264969	0.56549272	-3.91033325	9.22E-05	0.00324895
C3AR1	145.566421	-2.203892796	0.67576739	-3.26131866	0.00110895	0.01751451
CSDE1	46.5068396	-2.200961198	0.59736041	-3.68447782	0.00022917	0.00625184
ZDHHC20	387.601072	-2.200093648	0.62994198	-3.49253378	0.00047846	0.0100879
FUT8	569.321064	-2.199051561	0.54693718	-4.02066569	5.80E-05	0.00238832

RGS20	22.9028048	-2.198744074	0.67943717	-3.23612567	0.00121164	0.0185263
RASGEF1B	162.517707	-2.194383043	0.58962522	-3.72165737	0.00019792	0.00564385
GPR37	784.5164	-2.186580571	0.64989494	-3.36451393	0.00076679	0.01367251
CAPNS2	18.0843057	-2.185791176	0.63782239	-3.426959	0.00061038	0.01169594
PBOV1	27.8403134	-2.183986942	0.7165565	-3.04789214	0.00230453	0.02875397
PIR-FIGF	25.3592403	-2.183076993	0.7443973	-2.93267719	0.00336053	0.0365504
LOC387646	21.6670795	-2.183049273	0.65278952	-3.34418551	0.00082525	0.0142669
LOC439949	71.9820696	-2.18266798	0.753988	-2.8948312	0.00379362	0.03954595
FAM171B	457.896878	-2.182543988	0.54434529	-4.00948447	6.09E-05	0.00244629
SPINT2	228.435898	-2.179653038	0.59325458	-3.67406018	0.00023873	0.00638783
KIAA1107	362.074509	-2.177337481	0.57193195	-3.806987	0.00014067	0.00439372
CTNNA2	284.412222	-2.175085234	0.64829205	-3.35510088	0.00079336	0.01388711
EMCN	109.23443	-2.170213352	0.75924448	-2.85838542	0.00425803	0.04312954
PAQR6	432.025773	-2.168913489	0.60942189	-3.55896877	0.00037231	0.00860572
NIPAL3	440.919716	-2.168840719	0.63287861	-3.42694584	0.00061041	0.01169594
PCDHAC2	76.2617449	-2.167450345	0.63575565	-3.40925064	0.00065142	0.012258
PNMAL2	103.208598	-2.165443623	0.74390196	-2.91092607	0.00360359	0.03830156
CD84	427.111638	-2.165342011	0.7295744	-2.96795229	0.00299791	0.03399248
EMB	101.502607	-2.160514863	0.67195203	-3.21528139	0.00130317	0.01951731
MTMR8	9.80901414	-2.157630289	0.77011256	-2.80170769	0.00508329	0.04825967
HSPA2	503.38369	-2.156945065	0.74658383	-2.88908623	0.00386363	0.04007683
SEMA4D	646.382052	-2.15673158	0.67207927	-3.20904344	0.00133177	0.0197521
CALM2	8546.03988	-2.154101163	0.52912832	-4.07103739	4.68E-05	0.00205352
SCN11A	6.11803804	-2.149911735	0.7554576	-2.84584037	0.00442944	0.04417347
ASPHD1	332.037137	-2.149838305	0.6908043	-3.11208009	0.00185774	0.02475613
SSX2IP	176.054837	-2.149294919	0.60708473	-3.54035413	0.00039959	0.00902839
CAMK2G	126.042436	-2.146677139	0.56233377	-3.81744306	0.00013484	0.00427525
SLC1A2	1688.24448	-2.144886346	0.76847652	-2.79108897	0.0052531	0.04920465
NTRK2	198.100764	-2.14134254	0.64960442	-3.29637925	0.0009794	0.01593203
CSRNP3	217.03518	-2.135780171	0.48960685	-4.36223507	1.29E-05	0.00082887
NR4A2	42.5634521	-2.134761347	0.65679572	-3.25026683	0.00115297	0.01780742
NAP1L3	223.97762	-2.134104208	0.59153272	-3.60775345	0.00030886	0.00767763
METTL24	22.8372285	-2.131279945	0.65128204	-3.27243776	0.00106624	0.01703512
SATB1	330.949815	-2.130167292	0.51230178	-4.15803218	3.21E-05	0.00159589
GFOD1	188.90951	-2.129279556	0.71045715	-2.99705555	0.00272601	0.03187286
PLXDC2	591.133663	-2.12736346	0.71039718	-2.99461137	0.00274795	0.03195606
ATG4C	153.39729	-2.126642325	0.65246171	-3.25941324	0.00111643	0.01756599
C10orf131	25.5928266	-2.125438132	0.60414776	-3.51807665	0.00043469	0.00956083
AP3B2	50.9433443	-2.123117361	0.64578	-3.28767903	0.00101017	0.01633772
SYNJ1	166.229434	-2.122964724	0.53907086	-3.93819236	8.21E-05	0.00298608
C2orf15	26.5256341	-2.113209187	0.5649696	-3.7403945	0.00018373	0.00532315
TEK	115.421496	-2.110710885	0.57672973	-3.65979206	0.00025242	0.0066276
KCNH1	148.535321	-2.109287885	0.67904041	-3.10627742	0.00189459	0.02510778
GOLGA7B	43.0077029	-2.1082349	0.71979003	-2.92895817	0.003401	0.03680002
PLK2	129.950467	-2.103479783	0.74361988	-2.82870301	0.0046737	0.04555507
PAK1	1315.30919	-2.102326644	0.54956668	-3.82542594	0.00013055	0.00416936
EFHD1	889.064445	-2.101708145	0.74897616	-2.8061082	0.00501439	0.04782164
ABCG2	203.918244	-2.101485377	0.66880143	-3.1421664	0.00167703	0.02332537

FAM69A	60.4344287	-2.099935675	0.50821765	-4.1319613	3.60E-05	0.0017122
LOC100288637	112.756726	-2.096282385	0.54479087	-3.84786625	0.00011915	0.0039157
LOC147670	11.4937756	-2.094117828	0.70827707	-2.95663647	0.00311015	0.03477714
TSPAN15	167.187301	-2.093121772	0.61735422	-3.39047129	0.00069773	0.0128559
DOCK3	256.237142	-2.085894701	0.5654524	-3.68889532	0.00022523	0.00618425
OSBPL1A	1514.85672	-2.085829341	0.52695828	-3.95824382	7.55E-05	0.00285399
UBE2W	56.3261699	-2.085098484	0.63096838	-3.30460061	0.00095112	0.015608
GDAP1	507.249329	-2.082854082	0.52114848	-3.99666154	6.42E-05	0.00254006
TEF	84.0698066	-2.082192929	0.64314415	-3.23752139	0.00120573	0.01845271
SCAMP5	571.94414	-2.081377529	0.58462828	-3.56017249	0.00037061	0.0085935
L3MBTL4	150.562889	-2.080359597	0.67118314	-3.09954092	0.00193821	0.02549761
MYRIP	238.93968	-2.079649481	0.68726727	-3.02596903	0.00247838	0.03011777
LPAR5	30.7970303	-2.075436176	0.66249855	-3.1327407	0.00173182	0.023737
ANKRD46	14.7187602	-2.070130019	0.67131664	-3.08368645	0.00204453	0.02644825
STEAP2	161.850322	-2.068849281	0.74054511	-2.79368434	0.00521113	0.04898805
LDB2	160.330228	-2.068672517	0.65823024	-3.1427795	0.00167352	0.02329893
LIPA	795.479657	-2.06724338	0.63448464	-3.25814568	0.00112143	0.01757769
AGBL4	69.0097489	-2.066849503	0.66848883	-3.09182353	0.00198931	0.02593357
FAM105A	99.6417792	-2.063677639	0.59490798	-3.46890224	0.00052259	0.01063147
APBB2	204.61162	-2.06297423	0.53753784	-3.83782142	0.00012413	0.00401133
ADRB2	26.8628303	-2.06286623	0.63393372	-3.25407239	0.00113763	0.01773356
MORF4L1	58.8275485	-2.0623669	0.59854554	-3.44563074	0.00056973	0.01114678
TMOD2	2197.99413	-2.062155972	0.52663573	-3.91571604	9.01E-05	0.003209
SLC12A2	325.261864	-2.062037748	0.539061	-3.82524006	0.00013064	0.00416936
ME1	145.316073	-2.060674906	0.70607466	-2.91849437	0.00351726	0.03774207
NRXN1	526.090532	-2.060574853	0.70097397	-2.93958827	0.00328649	0.03602487
HPSE	19.7600432	-2.054303817	0.68240159	-3.01040302	0.00260901	0.03105452
USP54	636.467289	-2.052455041	0.46881157	-4.37799572	1.20E-05	0.00078622
C8orf46	732.455142	-2.049351443	0.60190483	-3.40477654	0.00066218	0.01237743
MYO1D	92.5068213	-2.044375564	0.59896802	-3.41316313	0.00064213	0.01215228
LOC100129858	33.2559172	-2.043106069	0.4976664	-4.1053727	4.04E-05	0.0018584
PANK1	21.0844707	-2.041489502	0.63394515	-3.2202936	0.00128059	0.01928234
RIIAD1	20.6178345	-2.039408377	0.6440243	-3.16666369	0.00154199	0.0218123
GPM6B	232.536876	-2.036581356	0.64011554	-3.18158402	0.00146472	0.02110906
DACH1	35.3503321	-2.035335958	0.69328711	-2.93577642	0.00332714	0.03632831
R3HDM1	848.022312	-2.031248965	0.53342862	-3.80791149	0.00014015	0.00438548
CNKSR2	106.172868	-2.029851364	0.56377193	-3.60048321	0.00031763	0.00783758
SYNJ2	396.128099	-2.025274951	0.67162865	-3.01546838	0.00256583	0.03079725
ADRBK2	24.5495902	-2.022058164	0.59883239	-3.37666797	0.0007337	0.01331428
SCOC	260.315796	-2.020877993	0.57207303	-3.53255244	0.00041157	0.00918289
CYSLTR1	35.861274	-2.018567191	0.71305257	-2.83088131	0.00464199	0.0453512
MAP2K4	378.506278	-2.016735467	0.55010466	-3.66609415	0.00024628	0.00652767
RPS6KC1	674.921638	-2.003951021	0.44727051	-4.48040048	7.45E-06	0.00055396
AMICA1	10.9249003	-2.003012812	0.68243465	-2.93509836	0.00333442	0.03638415
MST4	12.3057331	-1.999398904	0.65217627	-3.0657339	0.00217136	0.02764213
RNF175	79.778071	-1.998419791	0.70336492	-2.84122756	0.00449402	0.0445405
PTBP2	318.995874	-1.99460259	0.41779054	-4.77416891	1.80E-06	0.00022799
EPB41L2	59.8241967	-1.994601041	0.50124162	-3.97932044	6.91E-05	0.00266783

CSF2RA	126.824441	-1.993571014	0.57620955	-3.45980208	0.00054057	0.01082691
TDRD6	50.2320905	-1.992067191	0.61873404	-3.21958559	0.00128376	0.01931272
CD200	207.753905	-1.987791153	0.53693308	-3.70212087	0.0002138	0.00596806
LY86	194.131627	-1.981741723	0.67337756	-2.94298747	0.00325062	0.03579512
TMEM150C	31.906283	-1.980820921	0.5927492	-3.34175219	0.00083251	0.01433356
DAPP1	20.0412038	-1.980161841	0.67279998	-2.94316571	0.00324874	0.03579512
EML5	65.212741	-1.976934513	0.65292554	-3.02781006	0.00246333	0.03000642
FAM171A1	145.255756	-1.97040807	0.53787112	-3.66334607	0.00024894	0.00657874
EPB41L5	446.229096	-1.965560203	0.56422859	-3.48362388	0.00049467	0.01030645
INPP4B	25.1508271	-1.964527761	0.69146001	-2.84112997	0.0044954	0.0445405
CAP2	220.387014	-1.961160319	0.69970798	-2.80282686	0.00506569	0.04811972
TSGA10	14.6141712	-1.960361975	0.6338423	-3.0928229	0.00198262	0.02591779
CLCN4	109.698837	-1.958191587	0.65376004	-2.99527576	0.00274197	0.03192568
MAP7	1424.48867	-1.957201524	0.60398651	-3.24047226	0.00119332	0.01834632
PHYHIPL	687.979792	-1.95676999	0.63945733	-3.06004777	0.00221302	0.02800266
RAB6B	807.619009	-1.949550047	0.6789878	-2.87125931	0.0040884	0.04184012
UCHL1	2082.57674	-1.948187628	0.6479391	-3.00674499	0.00264061	0.0312705
PLCB4	53.2173582	-1.947655924	0.55107197	-3.53430407	0.00040885	0.00915117
NCEH1	95.2339598	-1.939876732	0.67989183	-2.85321377	0.00432795	0.04349693
ATP2B1	351.110366	-1.938302518	0.5764341	-3.36257436	0.00077219	0.01367407
RNLS	82.5981521	-1.936687132	0.57998637	-3.33919424	0.00084022	0.01441647
PTPRK	258.418044	-1.933532954	0.47855417	-4.0403638	5.34E-05	0.00226465
PTPN4	358.145448	-1.932044026	0.52033429	-3.71308229	0.00020475	0.00578256
PTPRM	117.22557	-1.929555444	0.41321548	-4.66961073	3.02E-06	0.00031302
ATP6AP1L	73.8367183	-1.926101092	0.67972297	-2.83365603	0.00460188	0.04516942
LOC100506207	18.1741694	-1.924546029	0.62400432	-3.08418701	0.00204109	0.02642841
MRV11	95.3060499	-1.923610982	0.58654543	-3.27956011	0.00103969	0.01670264
RIMKLA	115.141042	-1.922779393	0.66905557	-2.87387099	0.00405475	0.04163439
SEC61A2	133.005559	-1.922379231	0.55760756	-3.44754872	0.0005657	0.01112319
KCNMB4	441.050086	-1.921935047	0.57067255	-3.36784212	0.00075759	0.01359539
NDRG2	2959.9883	-1.915605429	0.50600082	-3.78577532	0.00015323	0.00466463
ANKRD29	36.1833707	-1.914954035	0.67181094	-2.85043593	0.00436593	0.04375778
PEBP4	34.1659518	-1.912473196	0.67983739	-2.81313329	0.00490613	0.047218
LINC00263	114.506704	-1.906800002	0.47793226	-3.98968671	6.62E-05	0.0025855
EXOC6	124.06761	-1.902332215	0.4754112	-4.00144591	6.30E-05	0.00250693
DHCR24	286.328817	-1.897956957	0.59041395	-3.2146208	0.00130617	0.01953678
STAMBPL1	111.077178	-1.897418132	0.59513704	-3.18820374	0.0014316	0.02081016
NCDN	435.389371	-1.895764177	0.64042766	-2.96015348	0.00307486	0.0344926
ALCAM	297.498586	-1.894796463	0.57125378	-3.31690839	0.00091019	0.01520369
MYH15	19.0868158	-1.894100832	0.65802734	-2.87845307	0.00399631	0.04117348
FAM73A	110.275037	-1.892179951	0.6161386	-3.07102974	0.00213322	0.02732211
GABARAPL1	725.396352	-1.891147853	0.57269064	-3.30221538	0.00095924	0.01566485
STOX2	229.355366	-1.890812066	0.51995579	-3.63648622	0.00027638	0.00707977
N4BP2L2	183.720072	-1.88799081	0.55271217	-3.41586619	0.00063579	0.01205857
PPM1K	328.390357	-1.884087898	0.4546954	-4.1436265	3.42E-05	0.00165549
TTC13	65.4265553	-1.880998363	0.51053107	-3.68439547	0.00022925	0.00625184
1-Mar	170.861996	-1.879765825	0.6063429	-3.10016958	0.0019341	0.02548095
ZNF124	538.063332	-1.876607687	0.52924143	-3.54584424	0.00039136	0.00892316

KCNJ2	77.5376286	-1.875949841	0.55723345	-3.36654204	0.00076117	0.01362162
UBE3D	318.907126	-1.871845001	0.55760707	-3.35692477	0.00078815	0.0138546
FAM125B	311.853944	-1.86623135	0.48560426	-3.84311159	0.00012148	0.00396644
KBTBD3	82.4209778	-1.865176646	0.51130558	-3.64787074	0.00026442	0.00687826
CLEC4E	58.5069855	-1.863509976	0.5674626	-3.28393446	0.00102369	0.01647705
SLC24A4	46.6857319	-1.860753488	0.61720645	-3.01479918	0.00257149	0.03084325
PCYT1B	98.7137759	-1.860697146	0.4701165	-3.95794904	7.56E-05	0.00285399
ZCWPW2	75.1274445	-1.85939201	0.52927743	-3.5130763	0.00044295	0.00969184
SORCS2	93.80275	-1.856904356	0.49363237	-3.76171516	0.00016875	0.00500125
GNAO1	2312.47421	-1.854774168	0.55888186	-3.31872317	0.0009043	0.01515041
TBC1D12	745.394599	-1.854681953	0.51778545	-3.58195069	0.00034104	0.00814257
PDE3B	38.0225021	-1.854142325	0.65012963	-2.85195788	0.00434509	0.04361698
LPCAT2	286.303411	-1.851800015	0.57267754	-3.2335824	0.00122248	0.01864117
RYR1	102.969421	-1.848153519	0.62419426	-2.96086274	0.00306779	0.03448233
ADIPOR2	170.301352	-1.844188915	0.43652717	-4.22468298	2.39E-05	0.00131399
TRAPPC6B	172.515789	-1.843601305	0.61265144	-3.0092173	0.00261922	0.03108286
MRO	211.721946	-1.836407672	0.46516722	-3.94784412	7.89E-05	0.00293226
LIG4	77.4427986	-1.835180147	0.51960136	-3.5319002	0.00041259	0.00918289
S100B	6486.33091	-1.832790182	0.64434102	-2.84444124	0.00444894	0.04428908
MAPRE3	78.9064923	-1.829812188	0.52007319	-3.5183744	0.0004342	0.00956083
C10orf118	278.304584	-1.823685715	0.41194523	-4.42701015	9.55E-06	0.00066024
ELMO1	97.2660395	-1.820466252	0.62289723	-2.92257882	0.00347146	0.03734595
ATP6V1H	610.487745	-1.818695371	0.49319132	-3.68760619	0.00022637	0.00620552
NSFP1	946.837049	-1.815605001	0.55799423	-3.25380602	0.0011387	0.01773375
NAPEPLD	634.345489	-1.81507535	0.49178288	-3.69080632	0.00022354	0.00614802
MDH1	2620.44462	-1.814814115	0.59707221	-3.03952197	0.00236954	0.02921331
PLS1	22.4987424	-1.813980683	0.46507941	-3.90036763	9.60E-05	0.00333465
ACADSB	49.9422676	-1.812651969	0.54317734	-3.33712739	0.00084649	0.01445573
ERMP1	223.89365	-1.798253042	0.49108497	-3.66179615	0.00025045	0.00659657
TRPV3	29.7960394	-1.797083663	0.62580415	-2.8716391	0.00408349	0.04183781
KCNJ10	178.115832	-1.795909251	0.56141438	-3.19890139	0.00137952	0.02029905
HSD17B6	17.0027191	-1.795329702	0.61855273	-2.90246832	0.00370235	0.03898134
CHIC1	40.5320407	-1.794705214	0.60304744	-2.97605976	0.00291978	0.03349397
LDHD	27.0484449	-1.790272666	0.54197577	-3.30323374	0.00095577	0.01564758
NDFIP2	301.847197	-1.785571077	0.54166046	-3.2964767	0.00097906	0.01593203
PURA	17.2013372	-1.785501074	0.56603965	-3.15437454	0.00160843	0.02261755
LOC338758	14.6897785	-1.785370973	0.54393445	-3.28232744	0.00102954	0.01655539
MOAP1	487.616671	-1.785139268	0.57729747	-3.09223468	0.00198656	0.02591779
TSPAN7	2052.01198	-1.785026128	0.56093879	-3.18221196	0.00146155	0.02108142
ANXA2P1	108.299783	-1.784761392	0.4846327	-3.68270936	0.00023077	0.00626118
MAPRE2	39.053783	-1.784598652	0.57578977	-3.09939275	0.00193918	0.02549761
AMY2B	306.246407	-1.783502009	0.45027111	-3.96095148	7.47E-05	0.00283812
IDS	3785.19277	-1.782664464	0.61092868	-2.91795837	0.00352331	0.03778288
SLC30A4	66.8698384	-1.780536992	0.50898767	-3.49819276	0.00046842	0.00991527
SDPR	287.733567	-1.780187892	0.62249679	-2.85975435	0.00423969	0.04302162
LRRC6	113.223273	-1.778232446	0.51441321	-3.45681723	0.0005466	0.0108956
APBA1	305.109209	-1.775416224	0.54500164	-3.25763465	0.00112345	0.01757769
SELL	95.092716	-1.770693771	0.52980644	-3.3421522	0.00083131	0.0143276

NR3C2	267.858215	-1.765867674	0.57310127	-3.08124894	0.00206134	0.02657063
GTDC1	186.943092	-1.765477945	0.50406588	-3.50247462	0.00046096	0.00986743
CNST	84.2469317	-1.758143867	0.5351162	-3.28553664	0.00101788	0.01643027
BMP6	30.2019564	-1.757530591	0.50526171	-3.47845593	0.00050431	0.0103981
RGS10	468.848092	-1.752600989	0.62352112	-2.81081256	0.00494166	0.04739703
NDUFB8	1347.28872	-1.746590328	0.49820195	-3.50578782	0.00045526	0.00979963
PEG3	21.6662239	-1.745410434	0.61960463	-2.81697448	0.00484784	0.04689444
RAPGEF2	81.1640073	-1.741798917	0.41545554	-4.1925038	2.76E-05	0.00145789
KIAA0930	777.889729	-1.741385974	0.58572754	-2.97303073	0.00294875	0.03372248
NET1	105.265622	-1.741313559	0.57470835	-3.02990825	0.00244628	0.02987449
ZDHHC2	93.157112	-1.73935593	0.60529076	-2.87358747	0.00405839	0.04163439
YWHAH	2833.66987	-1.738645976	0.54816895	-3.17173378	0.00151532	0.02159747
PLEKHA6	46.9902388	-1.736782503	0.61884178	-2.80650492	0.00500821	0.04778992
ATP6V1A	226.806429	-1.736334379	0.50611854	-3.4306872	0.00060205	0.01158869
HIGD1A	375.015937	-1.732053732	0.57718763	-3.00085041	0.00269227	0.03163697
SLC9A6	280.980092	-1.732009269	0.44792897	-3.86670515	0.00011032	0.00371492
FANCB	55.8595902	-1.72930636	0.49827554	-3.47058249	0.00051933	0.01059082
FBXL2	168.294687	-1.72927237	0.51757982	-3.34107378	0.00083455	0.01435393
NUDT7	13.5757246	-1.726188844	0.56245729	-3.06901321	0.00214767	0.0274236
KLRG1	39.7227987	-1.721429311	0.51444506	-3.34618687	0.00081931	0.01420817
CLIC2	47.0650206	-1.718008572	0.60148018	-2.85630123	0.00428608	0.04323129
TPK1	117.032118	-1.715602675	0.58069012	-2.95442028	0.00313257	0.03488896
ISPD	103.89111	-1.71213886	0.60320295	-2.8384126	0.00453385	0.0447566
IFIT2	399.641973	-1.71070656	0.59657296	-2.8675563	0.00413655	0.0422814
NBEA	518.615721	-1.709107994	0.60699128	-2.81570438	0.00486704	0.04697633
C17orf67	15.422613	-1.708182848	0.56123055	-3.04363837	0.00233736	0.02900288
CPEB2	86.9334557	-1.706644125	0.4354153	-3.91957776	8.87E-05	0.00316473
EIF4E3	487.194991	-1.70603874	0.55361505	-3.08163361	0.00205868	0.02656995
DNAJC28	14.5811721	-1.702899335	0.6008053	-2.83436135	0.00459174	0.04512255
SFMBT2	1053.0167	-1.702328664	0.51213079	-3.32401153	0.00088733	0.01492554
TARSL2	569.427968	-1.698743264	0.47062807	-3.60952392	0.00030676	0.00763672
ITIH5	110.619257	-1.696819049	0.60578782	-2.80101214	0.00509426	0.04830923
LANCL1	1390.91681	-1.695851836	0.48647863	-3.48597394	0.00049035	0.01024853
GPR155	266.844462	-1.693132335	0.50881143	-3.32762244	0.0008759	0.01480393
SLC13A3	87.5766475	-1.690968401	0.55972066	-3.0210934	0.00251864	0.03035696
TPRG1L	481.266021	-1.681863282	0.5092059	-3.30291396	0.00095686	0.01564758
NDRG3	206.343549	-1.679710205	0.43924451	-3.8240892	0.00013126	0.00417733
ZDHHC21	149.630784	-1.679252678	0.54885998	-3.05952839	0.00221686	0.02803016
LOC150568	90.0121993	-1.677371476	0.56660125	-2.96040908	0.00307231	0.03448701
CAMTA1	301.867129	-1.675330001	0.51250872	-3.26888098	0.00107974	0.01714925
FRA10AC1	54.8304359	-1.672398823	0.47116104	-3.54952699	0.00038592	0.00883524
PRELP	93.2794991	-1.669001856	0.46404381	-3.59664716	0.00032235	0.00788368
SESN1	400.697144	-1.664040708	0.42373751	-3.92705551	8.60E-05	0.00310755
NIPA1	168.259303	-1.661530068	0.47218804	-3.51878894	0.00043352	0.00956023
USMG5	636.597057	-1.659909464	0.55140017	-3.01035355	0.00260944	0.03105452
PBLD	39.9323404	-1.657561594	0.47575604	-3.4840579	0.00049387	0.01030645
DKFZP434H168	56.8040465	-1.656112295	0.48000921	-3.45016778	0.00056024	0.01106257
USP46	164.447873	-1.655633868	0.46739223	-3.54227942	0.00039669	0.00899581

PLCB1	196.728474	-1.646557671	0.51711447	-3.1841261	0.00145192	0.02101466
LOC646214	34.732131	-1.641489415	0.56215459	-2.91999649	0.00350035	0.03760866
ASAH2B	53.2603596	-1.640275285	0.56224839	-2.9173499	0.0035302	0.03780841
RND1	62.5285993	-1.640145544	0.56717378	-2.89178661	0.00383058	0.03979105
SPTLC2	618.562687	-1.639946654	0.45390757	-3.61295285	0.00030273	0.00754758
FGD4	163.448589	-1.636003832	0.5233211	-3.12619502	0.00177084	0.02403445
C3orf14	112.873777	-1.635237511	0.42566502	-3.84160653	0.00012223	0.00396644
MFSD6	102.6791	-1.630797404	0.57535135	-2.83443743	0.00459064	0.04512255
MAP2K6	39.0182577	-1.630130288	0.53000507	-3.07568809	0.00210017	0.02696591
UBR3	470.882232	-1.629930372	0.46355025	-3.51618917	0.00043779	0.0095914
SECISBP2L	254.0217	-1.629215586	0.47104603	-3.45871841	0.00054275	0.01084471
FAM49B	356.327266	-1.626590436	0.53632855	-3.03282465	0.00242276	0.02965194
MBNL2	3543.39177	-1.62388505	0.53106444	-3.05779288	0.00222974	0.0281295
PPP1R12B	130.843361	-1.623707615	0.40408227	-4.01825997	5.86E-05	0.0023973
EXOSC1	799.829938	-1.623609965	0.50730405	-3.2004672	0.00137205	0.02022272
TMEM62	102.584806	-1.623600983	0.51267882	-3.16689693	0.00154075	0.0218123
FAM174B	66.5989318	-1.622740652	0.46355189	-3.5006667	0.0004641	0.00989203
LARGE	121.708247	-1.620795433	0.52940123	-3.06156338	0.00220184	0.02788228
MLLT11	1494.89828	-1.619815971	0.55833338	-2.9011627	0.00371781	0.0390707
RNF13	865.817667	-1.617476792	0.51303904	-3.15273626	0.00161748	0.02270686
FAM47E	32.8238414	-1.617361837	0.53702397	-3.01171256	0.00259778	0.03100562
FBXL17	291.519793	-1.616911811	0.53488781	-3.02289895	0.00250366	0.03024549
OAT	499.664894	-1.616026137	0.40943871	-3.94693047	7.92E-05	0.00293226
BTRC	181.281718	-1.61168114	0.35454356	-4.54579156	5.47E-06	0.00044428
RNASEH2B	80.4086765	-1.608913534	0.52646836	-3.05604981	0.00224274	0.02827232
RAPGEF5	309.175763	-1.606049782	0.56051592	-2.86530627	0.00416606	0.04245391
MOB3B	115.386	-1.60329786	0.44070226	-3.63805227	0.00027471	0.0070656
HBS1L	254.613134	-1.599436073	0.46896294	-3.41058094	0.00064825	0.01222474
RTN4	4317.80163	-1.597891583	0.47195998	-3.38565057	0.0007101	0.01304096
CISD1	398.25923	-1.597075068	0.4745229	-3.36564381	0.00076365	0.013637
NTM	338.188985	-1.590948288	0.53523442	-2.97243271	0.0029545	0.03375079
RASSF2	679.836945	-1.584896364	0.55396771	-2.86099053	0.0042232	0.04290604
SNORA70E	16.2046041	-1.579091701	0.55556367	-2.84232356	0.0044786	0.04446909
SUGT1P3	25.8588653	-1.574679414	0.50431872	-3.1223894	0.00179389	0.02419311
DNER	1287.26581	-1.570289142	0.49682552	-3.16064508	0.0015742	0.02217342
AKAP11	681.375746	-1.569779846	0.4609256	-3.40571197	0.00065992	0.01234884
FBXO15	26.2304894	-1.568992657	0.50801828	-3.08845711	0.00201199	0.02612785
EFHB	38.8886646	-1.568120839	0.46476808	-3.3739857	0.00074088	0.01341572
MAOA	267.30566	-1.566535398	0.5285089	-2.96406624	0.00303603	0.03423989
BBIP1	42.2757874	-1.565840109	0.51416421	-3.04540862	0.00232364	0.02888055
ELOVL1	488.091881	-1.5650523	0.56022772	-2.79360024	0.00521249	0.04898805
FAM217B	396.4263	-1.562098517	0.39239418	-3.98094214	6.86E-05	0.00265777
PXK	528.486156	-1.560215191	0.51017915	-3.0581712	0.00222692	0.02811511
WDR17	186.021282	-1.555578518	0.47823195	-3.25276997	0.00114286	0.01776465
CPOX	100.450839	-1.551971022	0.47340851	-3.27829138	0.00104438	0.01674588
PARP8	98.9807446	-1.550572932	0.44622288	-3.47488438	0.00051107	0.01050246
GPR180	68.8481994	-1.549686329	0.54774393	-2.82921678	0.00466621	0.04550839
SYNDIG1	147.051646	-1.548565194	0.4492358	-3.44710992	0.00056662	0.01112319

WDR47	486.411683	-1.539843302	0.38228373	-4.02801156	5.63E-05	0.00233391
CAHM	275.991804	-1.539123331	0.51903672	-2.96534577	0.00302343	0.03416658
NAPG	618.127872	-1.538083589	0.39921916	-3.85272991	0.00011681	0.00387149
EPB41L1	740.035097	-1.537513736	0.47183358	-3.25859326	0.00111966	0.01757423
ZNF323	103.544251	-1.536385323	0.48826727	-3.14660725	0.00165177	0.02309175
PSTK	27.0957217	-1.534886538	0.54910103	-2.79527166	0.00518561	0.04881738
GCA	31.7485692	-1.530850748	0.52305674	-2.92673936	0.00342536	0.03699211
NEK7	444.843367	-1.524914587	0.52422156	-2.90891239	0.00362688	0.03841751
SAMHD1	85.5271397	-1.520361492	0.53675591	-2.83250072	0.00461855	0.0451976
CTTNBP2	203.682215	-1.519292769	0.43986379	-3.45400739	0.00055232	0.01095052
MYCBP2	279.948512	-1.518956209	0.51816746	-2.93140025	0.00337438	0.03665354
ZMYND11	966.611723	-1.518058978	0.35375669	-4.29125168	1.78E-05	0.00106247
LRRC8C	140.42226	-1.514947552	0.42300243	-3.58141573	0.00034174	0.00814257
STAM	116.64766	-1.51302638	0.51095151	-2.96119367	0.00306449	0.03446835
LMBRD2	94.2109062	-1.511572619	0.44699235	-3.38165213	0.00072051	0.01317484
FDFT1	817.014235	-1.508505748	0.48197237	-3.12985936	0.0017489	0.0238931
ZNF195	60.3606761	-1.508060659	0.45171991	-3.33848618	0.00084236	0.01441647
ADAM22	101.580164	-1.503118081	0.4422844	-3.3985329	0.00067748	0.01256559
FAM169A	420.131667	-1.502107029	0.4193711	-3.58180865	0.00034122	0.00814257
GSTM3	231.432978	-1.498490929	0.4982223	-3.00767537	0.00263254	0.03121894
WDR67	46.7759527	-1.494139578	0.47432578	-3.1500282	0.00163255	0.02288017
PARG	137.698367	-1.493513805	0.44169165	-3.3813494	0.00072131	0.01317484
ICA1L	40.8973648	-1.490509081	0.51308079	-2.90501831	0.00367232	0.03876231
TSPYL1	937.785317	-1.488142189	0.50450102	-2.94973079	0.00318051	0.0352309
SCAMP1	95.7016483	-1.48475478	0.50483478	-2.94107068	0.0032708	0.0359467
YWHAB	730.950877	-1.482482061	0.42332982	-3.50195516	0.00046186	0.00987371
INPP5A	120.27976	-1.481716958	0.44592068	-3.32282632	0.0008911	0.01497411
CDC42SE2	597.841444	-1.480162254	0.3299766	-4.48565817	7.27E-06	0.00054288
TLR4	222.292493	-1.478353412	0.52627507	-2.80908883	0.00496819	0.04757133
CLASP2	917.543144	-1.473779783	0.50252685	-2.93273839	0.00335987	0.0365504
SPATA7	188.767781	-1.467844765	0.5185867	-2.83047128	0.00464795	0.04538299
FOXP1	217.686065	-1.466749867	0.52252177	-2.80705985	0.0049996	0.04776366
RARB	75.431611	-1.46272917	0.46932464	-3.11666817	0.00182907	0.02446872
RTN4IP1	72.4574105	-1.459384185	0.44154182	-3.30520035	0.00094909	0.01560015
MFAP3L	310.047762	-1.459173468	0.47205656	-3.09109883	0.00199417	0.0259768
TAF9B	183.607561	-1.45754309	0.51463598	-2.83218266	0.00462314	0.0451976
ATP6V1B2	977.738153	-1.456961043	0.46578851	-3.12794543	0.00176033	0.02395187
FAM8A1	25.1952581	-1.45649498	0.45811625	-3.17931308	0.00147625	0.02120242
SORT1	2529.3255	-1.455712674	0.41848191	-3.47855575	0.00050412	0.0103981
INPP1	273.695127	-1.454245808	0.46937003	-3.09829284	0.00194639	0.02557243
CCP110	485.0071	-1.453146081	0.44406425	-3.27237801	0.00106647	0.01703512
TBCEL	233.008853	-1.452648271	0.49625404	-2.92722707	0.00341999	0.03695789
CASD1	76.8642512	-1.449912971	0.48233046	-3.00605726	0.00264659	0.03127227
ACYP2	414.684632	-1.442903242	0.32465646	-4.44440028	8.81E-06	0.00063024
PPA1	1978.8844	-1.440467816	0.44525241	-3.23517132	0.0012157	0.01857144
TPMT	99.2614335	-1.440266491	0.41056794	-3.50798579	0.00045151	0.00977144
EVI5	206.726457	-1.427154218	0.40671804	-3.50895233	0.00044988	0.00975446
SORL1	421.971255	-1.425805753	0.38630527	-3.69087829	0.00022348	0.00614802

ACSL4	409.351338	-1.419809556	0.47825968	-2.96870011	0.00299062	0.03393277
DIXDC1	61.2478637	-1.419763986	0.48410053	-2.93278752	0.00335934	0.0365504
RAB30	198.250329	-1.414778759	0.36888034	-3.83533248	0.00012539	0.0040444
NDUFB1	903.491761	-1.414371219	0.475932	-2.97179266	0.00296067	0.0337753
JAK2	122.679399	-1.414026211	0.46318959	-3.05280219	0.00226715	0.0285159
GPAM	148.825114	-1.41101699	0.41372867	-3.41048883	0.00064847	0.01222474
ZNF652	418.340734	-1.410498395	0.44747518	-3.15212652	0.00162086	0.02273534
USP31	250.559727	-1.4087209	0.39684328	-3.54981667	0.0003855	0.00883524
GDPD1	127.971419	-1.406795424	0.44449093	-3.16495868	0.00155105	0.021884
PPP3R1	1166.29849	-1.400506387	0.43849106	-3.19392233	0.00140354	0.02056239
FAM190B	467.272985	-1.399765099	0.31600033	-4.42963179	9.44E-06	0.00065545
AMOT	170.402145	-1.397986503	0.4553696	-3.07000405	0.00214056	0.02737439
KIFAP3	125.939797	-1.395744678	0.4345697	-3.21178551	0.00131913	0.01966384
RCBTB1	326.003847	-1.394630446	0.48984371	-2.8470927	0.00441205	0.04405235
ZNF25	259.536956	-1.3931245	0.43966876	-3.16857741	0.00153187	0.02175954
OXCT1	246.574754	-1.389149896	0.45590588	-3.04701025	0.0023113	0.02876967
ERCC6	50.2909619	-1.382059938	0.45926669	-3.00927539	0.00261872	0.03108286
WDR7	172.480766	-1.377826138	0.39365122	-3.50011908	0.00046505	0.00989203
MUDENG	171.501398	-1.377705467	0.48540293	-2.83827182	0.00453585	0.0447566
MEGF9	370.760756	-1.3764217	0.42879644	-3.20996532	0.00132751	0.01970625
MITD1	578.343279	-1.375919651	0.46819957	-2.93874611	0.00329543	0.03602888
IKZF5	260.135929	-1.3675011	0.4384056	-3.11926008	0.00181306	0.02433437
ARHGAP5	796.514111	-1.357927342	0.48693053	-2.78874963	0.0052912	0.04945119
KIAA1279	339.125629	-1.355992916	0.3432963	-3.94991995	7.82E-05	0.00291932
PPM1L	163.695932	-1.350921211	0.39980741	-3.37892988	0.00072769	0.01321949
VRK1	179.115404	-1.347315153	0.40604419	-3.31814908	0.00090616	0.01516646
ZNF720	29.3785087	-1.347240922	0.46532227	-2.89528569	0.00378814	0.03951884
APC	778.915153	-1.343899297	0.45460171	-2.95621257	0.00311442	0.03478474
HDX	30.667147	-1.342695187	0.48024046	-2.79588105	0.00517584	0.04875274
BLOC1S2	324.734377	-1.341932543	0.42072301	-3.18958674	0.00142476	0.02076473
C12orf29	159.003771	-1.34146738	0.37942579	-3.53551976	0.00040697	0.00914276
BRMS1L	81.9179919	-1.337550214	0.45526609	-2.93795266	0.00330387	0.03609773
STAU2	259.003812	-1.336284895	0.43195531	-3.09357213	0.00197762	0.02588487
KIF1B	971.435997	-1.329750063	0.42885769	-3.1006791	0.00193077	0.02546682
ULK2	287.419337	-1.329463801	0.36939207	-3.59905882	0.00031937	0.00785611
PDCD4	1032.844	-1.329348995	0.35550844	-3.73928955	0.00018454	0.0053374
GHITM	659.67725	-1.326917516	0.42685226	-3.10861071	0.00187969	0.02496944
CCDC66	291.704452	-1.326640382	0.43649839	-3.03927895	0.00237145	0.02921545
DZIP3	567.61758	-1.321670113	0.47446411	-2.78560609	0.00534278	0.04976718
ZFYVE16	309.661117	-1.320203334	0.42233223	-3.12598289	0.00177212	0.02403445
GPR21	127.713391	-1.317795474	0.3805287	-3.46306465	0.00053406	0.01074772
LOC283624	221.13916	-1.315695778	0.4641005	-2.8349372	0.00458347	0.04512029
FBXO33	41.8742873	-1.315083641	0.46070179	-2.85452254	0.00431016	0.04336999
CTAGE5	161.610584	-1.313129597	0.41136091	-3.19215941	0.00141213	0.02067029
IDE	126.064912	-1.312690847	0.43504753	-3.01735044	0.00254995	0.03067239
SLC12A6	82.8526572	-1.311166006	0.3456347	-3.79350223	0.00014854	0.00455478
SERINC1	2098.39128	-1.309274296	0.45665112	-2.86712159	0.00414224	0.04229853
TMCC3	245.309345	-1.308834608	0.42041924	-3.11316532	0.00185092	0.02468485

ATP6V1E1	1482.56758	-1.308333359	0.46874311	-2.79115218	0.00525208	0.04920465
FSD1L	106.648154	-1.305980364	0.41761004	-3.12727239	0.00176436	0.02398735
STX7	886.626431	-1.298553765	0.43741377	-2.96870799	0.00299055	0.03393277
ZNF624	74.6935391	-1.297550134	0.43743111	-2.96629595	0.0030141	0.03410706
DTNB	284.325858	-1.296605911	0.40622049	-3.19187721	0.00141351	0.02067249
BTBD3	684.030117	-1.283086316	0.44049934	-2.91279962	0.00358204	0.03821756
PPP2R2D	32.4887763	-1.282877211	0.45139662	-2.84201778	0.0044829	0.04446909
ASF1A	175.635484	-1.281444899	0.41336263	-3.10005023	0.00193488	0.02548095
STRN	251.810031	-1.280416737	0.44364009	-2.88616103	0.00389973	0.0403516
DCUN1D1	598.110087	-1.280306551	0.42181075	-3.03526296	0.00240326	0.02952075
LMBRD1	162.939408	-1.273132231	0.45283368	-2.81147866	0.00493144	0.04737744
GPR137C	85.8564512	-1.261031517	0.40327079	-3.1270093	0.00176594	0.02398942
C14orf129	175.507831	-1.26087474	0.45166318	-2.79162613	0.00524439	0.04920465
TEX2	334.858078	-1.2524702	0.42144595	-2.97184064	0.0029602	0.0337753
SSH2	331.696796	-1.25155026	0.40596983	-3.0828652	0.00205018	0.02650094
SCLT1	62.911419	-1.249956491	0.38429	-3.25263863	0.00114339	0.01776465
MYLIP	47.0677198	-1.231833392	0.38488571	-3.20051732	0.00137181	0.02022272
USP45	72.108456	-1.230812071	0.37464496	-3.28527591	0.00101883	0.01643027
ZNF706	347.347012	-1.229290828	0.43691397	-2.81357636	0.00489937	0.04718
LYPLAL1	266.663445	-1.222558928	0.41477892	-2.9474953	0.0032036	0.0354166
RUFY2	313.965895	-1.219098821	0.36355746	-3.35324939	0.00079869	0.0139368
PREX2	87.4044928	-1.198866906	0.38585918	-3.10700629	0.00188992	0.02508553
HERC3	196.22708	-1.195289202	0.37798341	-3.16227954	0.00156539	0.02206783
RAB11FIP2	206.475823	-1.194518918	0.41762759	-2.86024907	0.00423308	0.04298051
SAMD8	367.862983	-1.193414703	0.35745288	-3.338663	0.00084183	0.01441647
RNF141	621.245209	-1.192441692	0.35215196	-3.38615662	0.00070879	0.01303117
FAM135A	367.29349	-1.191354889	0.398977	-2.98602396	0.0028263	0.03259659
MTX2	262.781178	-1.188613972	0.39332326	-3.02197729	0.00251129	0.03031594
ALG14	71.2155705	-1.187571294	0.41556632	-2.85771787	0.004267	0.04314236
USP25	335.910189	-1.187080151	0.41675698	-2.84837499	0.00439431	0.04395358
BMI1	144.774705	-1.186644937	0.40578834	-2.92429532	0.00345237	0.03718823
PITHD1	291.189653	-1.18508862	0.32721192	-3.62177708	0.00029259	0.00738038
GPHN	293.263863	-1.184728999	0.39804528	-2.97636739	0.00291685	0.03349397
RNPC3	559.976696	-1.183805613	0.41243972	-2.87025126	0.00410146	0.0419482
C6orf225	365.818215	-1.176276342	0.31785137	-3.70071187	0.000215	0.00599135
WDR44	158.70215	-1.168172402	0.40312066	-2.89782323	0.00375762	0.0393415
TRIM36	95.7169378	-1.163170346	0.35677007	-3.26028008	0.00111302	0.01754333
CD99L2	385.017049	-1.15712339	0.33190807	-3.48627671	0.00048979	0.01024853
RAB18	466.921069	-1.155345535	0.36333897	-3.17980077	0.00147376	0.02118996
VPS26A	189.811227	-1.151970289	0.41083821	-2.8039512	0.00504805	0.04806091
ANXA7	583.018282	-1.151578381	0.36678263	-3.13967536	0.00169135	0.02344707
TATDN3	341.446619	-1.150833173	0.37751995	-3.04840361	0.00230061	0.02875397
WAPAL	185.073037	-1.147395791	0.41150508	-2.78829072	0.0052987	0.04946628
HSD17B4	2627.83272	-1.147318018	0.39924025	-2.87375338	0.00405626	0.04163439
LYRM7	59.1516616	-1.146370022	0.33270626	-3.4459201	0.00056981	0.01114678
UBE4B	213.206605	-1.145842884	0.36004416	-3.18250651	0.00146006	0.02107808
FAM149B1	152.404816	-1.143432298	0.35836766	-3.19066818	0.00141944	0.02073933
ZRANB1	302.729424	-1.141970737	0.34503943	-3.30968181	0.00093402	0.01547859

MAT2B	570.208762	-1.141578535	0.39251878	-2.90834121	0.00363352	0.03842518
SIRT5	23.1096624	-1.140572403	0.38223626	-2.98394608	0.00284557	0.03277378
PIK3IP1	105.197545	-1.138640427	0.39145047	-2.90877265	0.00362851	0.03841751
SLC25A26	21.1513686	-1.120951302	0.39267381	-2.85466278	0.00430825	0.04336999
DBT	134.305159	-1.118665302	0.37337771	-2.99606879	0.00273485	0.03191415
RASAL2	275.013801	-1.115707862	0.38426633	-2.90347547	0.00369046	0.03888402
CHUK	107.09897	-1.115099641	0.39973528	-2.78959525	0.0052774	0.04934968
PLEKHM3	341.165072	-1.103905987	0.36940373	-2.98834551	0.00280492	0.03241673
FRG1	138.883329	-1.102594281	0.34675706	-3.17973129	0.00147412	0.02118996
KIAA0232	172.815626	-1.101390158	0.32078898	-3.43337906	0.00059611	0.01152704
MAN1A2	257.928187	-1.100851122	0.36059909	-3.0528394	0.00226687	0.0285159
MICU1	467.902305	-1.093181528	0.27623261	-3.95746728	7.57E-05	0.00285399
ISCA1	89.3985261	-1.09117224	0.30834508	-3.53880214	0.00040195	0.00905404
HERC4	119.542673	-1.089149458	0.38269269	-2.84601588	0.004427	0.04417347
NT5C2	279.086763	-1.078326861	0.27015311	-3.99153973	6.56E-05	0.00257461
RPS10-NUDT3	948.533442	-1.076674196	0.33213347	-3.24169135	0.00118823	0.01830152
HINT3	280.507191	-1.076324748	0.37846356	-2.84393233	0.00445605	0.04432223
CSRP2BP	116.224794	-1.074102816	0.32851816	-3.26953864	0.00107723	0.01714183
KIAA0430	145.75185	-1.072864755	0.37587514	-2.85431152	0.00431302	0.04337284
TRMT1L	92.9625532	-1.071168193	0.36183003	-2.9604182	0.00307222	0.03448701
FTO	3629.02046	-1.059135153	0.34803156	-3.04321582	0.00234064	0.02900603
COX5A	306.092536	-1.052453987	0.37802094	-2.78411558	0.00536739	0.04996877
COMMD3	360.208217	-1.051654915	0.37363031	-2.8146938	0.00488237	0.04707397
HDGFRP3	497.268876	-1.04952334	0.37374493	-2.80812726	0.00498305	0.04765807
ZNF33A	321.791445	-1.048480079	0.34408464	-3.04715745	0.00231017	0.02876967
ZC3H6	83.605361	-1.044814511	0.36696172	-2.84720297	0.00441052	0.04405235
PPPDE2	71.9735871	-1.043219697	0.32658778	-3.1943011	0.0014017	0.02055335
RNF170	188.737585	-1.031901544	0.30506179	-3.38259852	0.00071804	0.01315798
C4orf34	463.49615	-1.029982527	0.33396114	-3.08413881	0.00204142	0.02642841
KIAA1586	89.3215278	-1.023509112	0.36442953	-2.80852408	0.00497692	0.04762648
EXOC6B	478.463104	-1.020558669	0.31779755	-3.21134844	0.00132114	0.01966384
TAX1BP1	101.141909	-1.013814133	0.34750394	-2.91741768	0.00352943	0.03780841
ASL	271.65917	1.00599442	0.36076739	2.788484925	0.00529552	0.04946411
UBE2E1	523.117703	1.006286871	0.32406428	3.105207605	0.00190146	0.0251591
GALNT2	941.026516	1.041665949	0.36866366	2.825518389	0.00472042	0.04590388
PTPN12	779.881572	1.045756342	0.37136737	2.81596183	0.00486314	0.04697515
TSPAN9	128.607506	1.057595195	0.3422435	3.090183456	0.00200033	0.02603141
WDR1	718.528436	1.062526092	0.37811571	2.810055432	0.0049533	0.04748157
ZSCAN22	38.8999401	1.076095115	0.35928369	2.995112626	0.00274344	0.03192568
KXD1	481.859724	1.084433162	0.32183689	3.369511656	0.00075302	0.01354782
ACP6	197.963044	1.089118945	0.36956807	2.947004997	0.00320868	0.03544948
NOP16	68.3665511	1.092644639	0.36256776	3.013628824	0.00258143	0.03094039
ILK	543.703302	1.094335653	0.34919263	3.133902507	0.00172498	0.02369516
TBL2	130.104582	1.102542026	0.38996824	2.827261074	0.0046948	0.04568123
CLPP	66.0738336	1.103842408	0.39535763	2.792009846	0.00523818	0.04920196
DCPS	241.12317	1.108086385	0.3911157	2.833142195	0.00460929	0.0451976
STAT3	1461.57147	1.108929169	0.36544963	3.034424134	0.00240995	0.02956898
IRF3	267.525652	1.108969874	0.32017263	3.463662355	0.00053287	0.01074772

CNTROB	49.9983655	1.109624248	0.36173462	3.067509145	0.00215851	0.02750054
POLR2H	281.687832	1.111495541	0.38891808	2.857916894	0.00426432	0.04314127
LRP1	2065.28123	1.114438949	0.38406959	2.90165888	0.00371192	0.03904999
ZIK1	106.163404	1.11501725	0.37757698	2.953085889	0.00314614	0.03500978
TMED9	466.314664	1.11822967	0.3464791	3.22740871	0.00124917	0.01896209
SNX8	201.571126	1.142437604	0.40746631	2.803759679	0.00505105	0.04806224
DGKD	271.88041	1.149572198	0.38159149	3.012572973	0.00259043	0.03095989
RCN1	769.037051	1.154753982	0.34790332	3.319180729	0.00090282	0.01515041
SUN1	943.661483	1.155189955	0.36923793	3.128578788	0.00175654	0.02394562
DHR SX	337.084393	1.157342448	0.3989573	2.900918056	0.00372071	0.03907677
DPP9	99.4861233	1.158582038	0.41077254	2.820495313	0.00479496	0.04649421
ACTB	53930.0891	1.169238119	0.2966774	3.941109519	8.11E-05	0.00296817
BCKDK	572.294148	1.172256501	0.33955254	3.452356786	0.00055571	0.01098611
FYCO1	369.563476	1.172372674	0.42064434	2.787087709	0.00531841	0.04962273
ECE1	1004.32847	1.179096032	0.39753826	2.965993815	0.00301707	0.03411761
FIGN	115.440119	1.184467523	0.40075021	2.955625445	0.00312036	0.03479818
TRPM4	18.8112218	1.189574723	0.40795076	2.915976238	0.00354578	0.0379028
CHCHD3	396.827395	1.19735765	0.35534608	3.369553608	0.0007529	0.01354782
CABIN1	255.346713	1.199429785	0.39561503	3.031810475	0.00243092	0.02970847
PDIA6	1590.88631	1.202481682	0.27483003	4.375364993	1.21E-05	0.00079266
CDC42EP3	68.0485633	1.211066073	0.37075311	3.266502773	0.00108885	0.01727761
WTAP	194.073684	1.212817001	0.37053637	3.27313887	0.0010636	0.01702169
DBF4	49.9345738	1.224144025	0.40746042	3.004326246	0.0026617	0.03140952
RPL13AP5	14766.2347	1.225332747	0.42915887	2.855196152	0.00430103	0.04333
TARS	383.182151	1.227808644	0.36883857	3.328850968	0.00087205	0.01480393
FNBP4	184.728171	1.2307671	0.35761325	3.441614937	0.00057825	0.01124648
CCNL2	342.15336	1.231451801	0.39820821	3.092482173	0.0019849	0.02591779
PLEKHA8	259.63689	1.232648085	0.34040999	3.621069074	0.00029339	0.00738038
EIF4A3	254.274789	1.234982247	0.40515861	3.048145156	0.00230259	0.02875397
LYPD1	102.937278	1.235535194	0.37053304	3.334480452	0.00085459	0.0145792
INPPL1	303.341475	1.238618206	0.38833014	3.189600992	0.00142469	0.02076473
LOC100289561	412.255649	1.238781611	0.31200342	3.970410322	7.17E-05	0.00274814
POLH	204.855394	1.242598314	0.44378252	2.800016343	0.00511	0.04835133
MAD2L2	228.236032	1.243299278	0.40957519	3.035582502	0.00240072	0.02951106
MANF	373.129452	1.249663226	0.35102252	3.560065634	0.00037076	0.0085935
CD63	2878.68702	1.258329906	0.39981565	3.147275247	0.001648	0.02305824
IPO4	104.807558	1.261169349	0.41588745	3.032477522	0.00242555	0.02966446
RPL18A	2509.03666	1.263994096	0.37227937	3.395283766	0.00068558	0.01268767
GMPPA	173.882095	1.264714679	0.43682532	2.89524126	0.00378867	0.03951884
ELL	75.9540219	1.26476441	0.43323891	2.919323213	0.00350792	0.0376659
EPAS1	155.362059	1.266511228	0.43674985	2.89985501	0.00373335	0.03918505
RELB	107.685228	1.266980614	0.39376419	3.217612552	0.00129262	0.01941129
EIF3B	456.317537	1.268034201	0.38986313	3.252511223	0.0011439	0.01776465
ZNF473	93.0702174	1.270409114	0.40798304	3.113877242	0.00184646	0.02464493
KIAA0754	672.833918	1.273359384	0.4249651	2.996385769	0.00273201	0.03190314
PCDHB10	198.394302	1.273900129	0.43516202	2.927415677	0.00341792	0.03695789
TRIO	548.456554	1.276381262	0.43828345	2.912227849	0.00358861	0.0382633
POFUT1	170.268659	1.293628334	0.43905397	2.946399333	0.00321497	0.03549564

FKBP9	954.72544	1.298683876	0.35331029	3.675760163	0.00023714	0.00636572
TCEA3	402.159627	1.301980885	0.41096129	3.16813507	0.0015342	0.02177427
POLD2	795.616593	1.303191247	0.43258269	3.012582996	0.00259035	0.03095989
TTLL4	131.801654	1.305821623	0.39347002	3.318732214	0.00090427	0.01515041
LGALS1	1478.57811	1.316570627	0.43951046	2.995538764	0.0027396	0.03192568
C20orf20	78.6600496	1.324977531	0.47483108	2.790418738	0.00526399	0.04927917
PTPN14	109.195876	1.326416807	0.40803999	3.250702952	0.0011512	0.01779648
ATP13A3	698.940965	1.326916811	0.42945899	3.089740416	0.00200331	0.02603535
BTG1	1188.122	1.331112352	0.46956936	2.834751313	0.00458614	0.04512029
METTL1	80.1802285	1.334316617	0.41045486	3.250824277	0.00115071	0.01779648
ZNF548	180.605297	1.335851142	0.44491487	3.00248707	0.00267783	0.03155562
ZNF558	222.559612	1.342030815	0.43062632	3.116462619	0.00183035	0.02446872
CALR	13170.189	1.343036145	0.35632819	3.769098769	0.00016384	0.00491631
DDX41	239.680523	1.346143669	0.3809619	3.533538794	0.00041004	0.00916256
PRR24	88.1513757	1.347884066	0.45397131	2.969095277	0.00298678	0.03393277
FAM210A	73.2864508	1.347981771	0.43222773	3.118684144	0.00181661	0.02436253
GRWD1	218.407105	1.354537573	0.44745507	3.027203565	0.00246828	0.03003398
SHC1	498.039901	1.356991363	0.43516401	3.118344671	0.0018187	0.02437116
PFKFB3	567.726719	1.365056088	0.46659412	2.925574967	0.0034382	0.03710698
MYO9B	217.53604	1.365438329	0.47424051	2.879210652	0.00398672	0.04112513
XBPI	600.293628	1.383388519	0.41549826	3.329468886	0.00087012	0.01479905
SEC24D	313.932224	1.406993253	0.40878479	3.441892345	0.00057766	0.01124648
OSBPL3	574.003135	1.408588272	0.44773055	3.146062476	0.00165485	0.02310861
PTRF	844.534845	1.410223249	0.50604624	2.786747822	0.00532399	0.04964723
MYH9	2694.18641	1.420257652	0.45674413	3.109525766	0.00187388	0.0249302
SH3GL1	1171.08524	1.422450178	0.47807765	2.975353872	0.00292651	0.03352217
ZNF90	141.122561	1.42338435	0.45578554	3.122925649	0.00179063	0.02416847
RPL13AP20	64.8255174	1.42598818	0.50344757	2.832446245	0.00461933	0.0451976
FLT4	77.1896087	1.42828912	0.4970176	2.873719395	0.00405669	0.04163439
SETD5	624.944731	1.428796307	0.43222068	3.305710188	0.00094736	0.01560015
TANC1	771.797086	1.434837622	0.48530083	2.956594226	0.00311057	0.03477714
EPHA2	45.5787822	1.436665191	0.48432781	2.966307474	0.00301399	0.03410706
MKNK2	428.439397	1.437771026	0.45919406	3.131074944	0.00174168	0.02381378
TNS1	1678.06267	1.44109746	0.46118654	3.124760443	0.0017795	0.02407625
ACLY	567.283014	1.441428443	0.40687406	3.542689499	0.00039607	0.00899397
PATL1	552.490345	1.441926832	0.43557213	3.310420332	0.00093156	0.01547159
C19orf10	200.010025	1.446702874	0.48881625	2.959604731	0.00308034	0.03453104
PCK2	29.9009246	1.449235788	0.39568904	3.66256239	0.0002497	0.00658719
RCN3	223.230334	1.449271872	0.51354865	2.8220732	0.00477143	0.04631952
FERMT2	1557.92099	1.449372208	0.43101183	3.362720228	0.00077179	0.01367407
TPM4	2294.41296	1.45344006	0.5108836	2.844953451	0.00444179	0.04424414
HDAC7	318.004793	1.454332102	0.51879373	2.803295439	0.00505833	0.04807703
MTMR11	97.5431523	1.455312867	0.51704598	2.814668171	0.00488276	0.04707397
PLCB3	36.6416924	1.45776355	0.47772337	3.051480516	0.00227716	0.02859893
RHOC	1196.04494	1.461707001	0.47137577	3.100937954	0.00192909	0.02546456
NAB2	138.439841	1.46486695	0.47884769	3.059150079	0.00221966	0.02804448
P4HA2	218.720582	1.469525545	0.52016118	2.825134963	0.00472607	0.04593227
IRS2	617.445967	1.470292272	0.44433309	3.308986638	0.00093634	0.01550178

ACSS3	176.74794	1.470834439	0.50518956	2.911450603	0.00359755	0.03829424
CSRP2	517.919017	1.478505151	0.48182792	3.068533591	0.00215112	0.02744681
LOC100129034	804.616332	1.479350425	0.4658577	3.175541413	0.00149557	0.02138858
TRIM9	1472.24581	1.481388036	0.4943089	2.99688722	0.00272752	0.03187286
STK40	328.517408	1.483341737	0.50364919	2.945188373	0.00322758	0.0355881
NBPF16	1008.92003	1.486566389	0.43796745	3.394239465	0.00068819	0.01272214
ARHGEF26	527.140639	1.489125388	0.36828426	4.043413051	5.27E-05	0.00224677
FIBIN	411.182568	1.498960559	0.51500927	2.910550614	0.00360793	0.03832337
DAPK3	773.337675	1.498970073	0.50976817	2.940493676	0.0032769	0.03599018
FAM57A	41.7953641	1.500041025	0.52239494	2.871469261	0.00408569	0.04183781
SLC3A2	1031.80275	1.510785561	0.41722084	3.621069236	0.00029339	0.00738038
LTBP3	2338.38086	1.513093587	0.44331383	3.413143242	0.00064218	0.01215228
ZYX	966.324553	1.513271709	0.52799424	2.866076173	0.00415594	0.04237649
SPRY2	645.353935	1.514962191	0.51525391	2.940224557	0.00327974	0.03599793
GSDMD	164.983511	1.515663358	0.46887755	3.232535543	0.00122697	0.0186899
LPP	206.509032	1.521875066	0.52186047	2.916248978	0.00354268	0.03789379
S100A6	197.54313	1.523247721	0.42109124	3.617381618	0.0002976	0.00746394
ACTG1	51006.0174	1.525380613	0.44404202	3.43521678	0.00059208	0.01146234
LAMB2	387.801172	1.530898891	0.54141373	2.827595246	0.00468991	0.04566001
METRNL	128.110584	1.533059543	0.53743666	2.852539975	0.00433714	0.0435632
GPRC5C	139.003025	1.533335862	0.49366854	3.106002774	0.00189635	0.02511131
EYA2	118.818224	1.538600227	0.49012033	3.139229566	0.00169393	0.02344707
SEMA5A	305.772149	1.539270414	0.49343689	3.119487903	0.00181166	0.02433437
SEMA3F	23.5807184	1.549536217	0.44307369	3.497242647	0.00047009	0.00993643
FDXR	62.2149972	1.551581925	0.41048122	3.779909646	0.00015689	0.00475866
VGLL4	721.92336	1.552354195	0.5547191	2.798450944	0.00513484	0.04851936
APP	2497.69735	1.555071618	0.44865009	3.466112352	0.00052804	0.01071646
PDGFC	307.322518	1.559212095	0.47445006	3.286356588	0.00101492	0.01639884
IRF1	131.305916	1.564716887	0.53035954	2.950294593	0.00317471	0.03521534
CDCA7L	157.064028	1.567237922	0.48191532	3.252102324	0.00114555	0.01776465
PGK1	6478.43656	1.571979164	0.52816027	2.976329837	0.00291721	0.03349397
LAMC1	403.645502	1.574650451	0.53217642	2.958888068	0.00308751	0.03456533
NOTCH3	246.475516	1.575224158	0.55470745	2.83973861	0.00451505	0.04462122
CLIC1	1692.45328	1.579670431	0.54528199	2.896978909	0.00376775	0.03942297
HSPB1	1033.92817	1.58160042	0.4226145	3.742418743	0.00018226	0.00530571
PCDHB7	125.112272	1.584171629	0.56617165	2.798041232	0.00514135	0.04851936
COL5A3	34.9352693	1.584217051	0.5444641	2.909681372	0.00361797	0.03840583
SAMD4A	189.850398	1.59086523	0.50726021	3.13619163	0.00171157	0.02360385
PGPEP1	512.445453	1.59483059	0.38476227	4.144976547	3.40E-05	0.00165052
TLCD2	13.1317167	1.600458788	0.54556979	2.933554657	0.00335105	0.03651815
TSR1	214.236203	1.601976113	0.52484995	3.052255454	0.00227129	0.02854653
SLC12A4	290.12015	1.606336754	0.54450273	2.950098636	0.00317672	0.03521534
C14orf43	200.015567	1.610989377	0.47793568	3.370724198	0.00074971	0.01351728
DOK5	215.139975	1.615880278	0.49513556	3.263510893	0.00110041	0.01742816
USP36	999.375748	1.616377138	0.50123211	3.224807634	0.00126057	0.01908349
LDHA	2069.07935	1.61866322	0.53745948	3.011693492	0.00259795	0.03100562
C1S	254.6643	1.619468367	0.54419404	2.975902431	0.00292128	0.03349397
CDR2	129.662509	1.620323394	0.49224721	3.291686291	0.00099589	0.01613778

TPM2	1334.24016	1.632766366	0.54318508	3.00591167	0.00264786	0.03127227
FOSL2	191.028608	1.640217783	0.57600895	2.847556075	0.00440563	0.04404061
TBX2	64.8163662	1.644394203	0.4772221	3.445762879	0.00056945	0.01114678
BLOC1S1-RDH5	124.161584	1.650495541	0.58099853	2.840791275	0.00450018	0.04456155
DENND2A	311.076386	1.655966646	0.35980895	4.602349804	4.18E-06	0.00037568
HES1	20.5686864	1.657118559	0.59107334	2.803575218	0.00505394	0.04806252
P4HB	2504.00289	1.659335944	0.48748761	3.403852568	0.00066443	0.0123918
PPP1R14B	777.931354	1.660987289	0.56090065	2.961286092	0.00306357	0.03446835
PRTG	82.7664908	1.666671085	0.53653218	3.106376714	0.00189395	0.02510778
HIST1H1C	470.358235	1.671553151	0.50240083	3.327130525	0.00087745	0.01480393
ATHL1	76.6365041	1.674667175	0.53465747	3.132224422	0.00173487	0.02374885
PLOD1	554.677921	1.675361553	0.42076233	3.981728941	6.84E-05	0.0026551
GAPDH	33110.9153	1.678900214	0.53717062	3.125450555	0.00177533	0.02405193
OMP	25.8436594	1.682420943	0.59935595	2.807048015	0.00499978	0.04776366
DFNA5	479.214338	1.684184008	0.40631755	4.144994455	3.40E-05	0.00165052
KANK2	96.7198484	1.686768263	0.4685784	3.599756731	0.00031852	0.00784799
GLT25D1	577.086203	1.69122075	0.39785693	4.250826473	2.13E-05	0.0011987
CCDC9	301.914882	1.694413245	0.49300282	3.436924048	0.00058836	0.01140347
PRKD2	189.414341	1.696846983	0.43783692	3.875522865	0.0001064	0.00359734
JMJD6	137.602642	1.702031063	0.57853232	2.941980947	0.0032612	0.03586466
GNB2L1	12412.0661	1.702600052	0.45375355	3.752257258	0.00017525	0.00514841
MAP3K6	89.9395614	1.705669436	0.47893092	3.561410178	0.00036887	0.00857325
MREG	60.7881022	1.709289937	0.53871302	3.172913749	0.00150917	0.02152814
DOCK6	170.150665	1.712422387	0.42472519	4.031836156	5.53E-05	0.00232305
TNFRSF1A	599.8672	1.71289043	0.42131772	4.065555182	4.79E-05	0.00208067
OBSL1	572.551814	1.716569151	0.57375124	2.991835179	0.00277306	0.03218128
MVP	104.950549	1.717675856	0.58305522	2.945991752	0.00321921	0.03551911
THBS3	53.6450523	1.719101172	0.56517744	3.04170166	0.00235245	0.02909563
RHOJ	150.759452	1.723752947	0.47274576	3.646257831	0.00026609	0.00691086
RAB13	1326.653	1.734919579	0.51704497	3.355452024	0.00079235	0.01388396
AGXT2L2	169.243201	1.735930273	0.52509301	3.305948147	0.00094656	0.01560015
CHPF	557.522295	1.740257196	0.60335887	2.88428213	0.00392307	0.04056818
PTGFRN	238.078875	1.743361892	0.49461279	3.524700371	0.00042396	0.00939654
CSPG4	125.162555	1.7454317	0.53599246	3.256448261	0.00112815	0.0176349
IL1RAP	169.412954	1.746051572	0.59006732	2.959071834	0.00308567	0.03456533
CD99	3156.92494	1.750224975	0.55680314	3.143346082	0.00167028	0.02329247
AK4	630.794129	1.750472519	0.53694734	3.260045045	0.00111395	0.01754333
LAMA5	196.48886	1.75598502	0.56763057	3.093534975	0.00197787	0.02588487
NLRC5	266.21252	1.756551815	0.62926504	2.791433976	0.00524751	0.04920465
ASAP3	149.324545	1.756679474	0.54681619	3.212559378	0.00131558	0.01963321
LATS2	75.3908524	1.764335205	0.51647322	3.416121364	0.0006352	0.01205857
LIG1	412.69122	1.772632779	0.38105891	4.651860191	3.29E-06	0.000331
PPP2R3B	207.92513	1.776853726	0.55988293	3.173616515	0.00150552	0.02149434
TRIP6	792.772472	1.789790903	0.40312687	4.439770804	9.01E-06	0.00063851
PDIA4	241.274038	1.794162635	0.48018537	3.736395901	0.00018668	0.00538064
SH3PXD2B	498.173038	1.79708834	0.58026632	3.097006096	0.00195486	0.02564359
C1RL	67.2925488	1.805709364	0.58390857	3.092452261	0.0019851	0.02591779
S100A16	1712.73603	1.821956791	0.38941562	4.678694701	2.89E-06	0.00030211

AJUBA	38.6988544	1.827903699	0.64130335	2.850294932	0.00436787	0.04375778
RHBDF1	100.589251	1.843234784	0.44034362	4.185900975	2.84E-05	0.0014777
FABP7	3699.33943	1.845688542	0.65804167	2.804820172	0.00503447	0.04795871
GBE1	336.285459	1.857152019	0.60101712	3.090015193	0.00200146	0.02603141
DHRS13	16.2818278	1.872253727	0.59940961	3.123496372	0.00178716	0.02414104
DBX2	47.6946341	1.879404573	0.54761918	3.431955367	0.00059925	0.01154786
ZNF713	1026.94839	1.880047048	0.64860837	2.898585863	0.0037485	0.03929491
AEN	100.816955	1.880139408	0.48640919	3.865345183	0.00011093	0.00372669
PIP5K1A	79.8733829	1.882352035	0.62416133	3.015810099	0.00256294	0.03079725
SNX33	71.2274322	1.888617242	0.54377145	3.47318205	0.00051433	0.01052709
EVC	52.7729123	1.889304735	0.63355714	2.98205895	0.00286317	0.03295389
HSD3B7	28.1715123	1.894300767	0.5632282	3.363291754	0.00077019	0.01367407
MT2A	18018.323	1.894708701	0.50617121	3.743217016	0.00018168	0.00530024
IGDCC4	26.9779563	1.899548935	0.47363541	4.010572067	6.06E-05	0.00244088
SESN2	181.981008	1.900980748	0.52859387	3.596297399	0.00032278	0.00788368
ADAM19	174.604898	1.901515468	0.49908303	3.810018295	0.00013896	0.00437271
KIAA0040	67.0313863	1.902921399	0.5883355	3.234415396	0.00121892	0.01860376
EMILIN2	60.6238128	1.903415074	0.57680022	3.299955498	0.000967	0.01577621
RAB34	180.135091	1.91256856	0.54266292	3.52441355	0.00042442	0.00939654
ACTN1	819.384832	1.931700475	0.57491487	3.359976556	0.00077949	0.01373015
CEBPG	25.9945545	1.933395075	0.55952312	3.455433785	0.00054941	0.01093486
BATF3	25.8855903	1.936824631	0.4981013	3.888415143	0.0001009	0.00346028
BCL6	1231.09227	1.939214556	0.54487872	3.558983864	0.00037229	0.00860572
C19orf44	23.978042	1.939818468	0.58292143	3.327752895	0.00087549	0.01480393
SHMT2	212.16823	1.949024976	0.49999112	3.898119191	9.69E-05	0.0033519
SNORA80B	18.270173	1.957258568	0.66806089	2.929760738	0.00339223	0.03672877
STBD1	99.2715699	1.959472913	0.49730842	3.940156308	8.14E-05	0.00296817
PCSK5	237.64268	1.965145729	0.6010431	3.269558737	0.00107715	0.01714183
SBNO2	133.868837	1.968587032	0.55586784	3.541465957	0.00039791	0.00901143
PDLIM7	320.459845	1.977778162	0.62224743	3.178443254	0.00148068	0.02121538
GADD45B	717.538653	1.985224416	0.69832472	2.842838532	0.00447137	0.04443343
CNN2	77.3958374	1.990355388	0.59799486	3.32838208	0.00087352	0.01480393
PABPC1L	197.445603	1.990720168	0.56361456	3.532059535	0.00041234	0.00918289
HIST1H2AG	563.505191	1.992984423	0.69528816	2.866415012	0.0041515	0.04235686
FAM129A	817.858509	1.999807287	0.50662294	3.947328703	7.90E-05	0.00293226
BCAT1	729.442275	2.002905216	0.62429213	3.208281996	0.0013353	0.01978701
ADAM12	40.035887	2.017304901	0.63269557	3.188428978	0.00143048	0.02081016
CD151	1561.43064	2.018118763	0.50531011	3.99382224	6.50E-05	0.00256465
AKR7A2P1	39.2389473	2.020294132	0.58269461	3.467157776	0.00052599	0.01068777
HSPG2	88.662587	2.029180635	0.65500127	3.09797968	0.00194845	0.02557947
SLC2A3	1184.07641	2.033143715	0.68852457	2.952899275	0.00314805	0.03500978
DNAJB1	395.470538	2.034119329	0.65027016	3.128114235	0.00175932	0.02395187
BHLHE40	3012.59884	2.034293648	0.58705418	3.465257056	0.00052972	0.01073763
CTAGE6P	84.7701298	2.040712149	0.64284502	3.174500967	0.00150094	0.02144716
9-Sep	993.843819	2.041808324	0.44357624	4.603060663	4.16E-06	0.00037568
PPP1R15A	236.621625	2.045947764	0.652392	3.136071182	0.00171228	0.02360385
METTL21B	29.6525794	2.050737792	0.65130357	3.14866661	0.00164017	0.02296787
GYS1	271.03146	2.061913249	0.45395973	4.542062043	5.57E-06	0.00045005

COL1A2	405.947834	2.076107995	0.61194386	3.392644545	0.00069221	0.01278092
MMP14	1137.00186	2.077170976	0.73290665	2.834154899	0.00459471	0.04512532
FKBP10	899.669683	2.080793657	0.59682951	3.486412176	0.00048955	0.01024853
RAB20	50.6658379	2.084768058	0.65445212	3.185516564	0.00144496	0.02093197
NUPR1	2366.73904	2.087880658	0.63421438	3.292073988	0.00099451	0.0161311
AKAP12	1073.79164	2.098106152	0.74927712	2.800173777	0.00510751	0.04835133
FGF11	30.254882	2.102112292	0.54635153	3.847545348	0.00011931	0.0039157
ITGA7	337.520287	2.102666704	0.46352068	4.53629536	5.73E-06	0.00045812
HIST1H3J	484.98931	2.118143454	0.75403443	2.809080535	0.00496832	0.04757133
EPHB4	141.671307	2.119116593	0.49857501	4.250346553	2.13E-05	0.0011987
EIF4EBP1	285.40638	2.120715909	0.5828422	3.638576443	0.00027415	0.0070656
MDK	559.718312	2.133238158	0.65467191	3.258484325	0.00112009	0.01757423
LTB4R2	19.5943781	2.142695833	0.60328123	3.551736294	0.0003827	0.00879735
AQPEP	18.3186084	2.143026488	0.72916001	2.939034565	0.00329236	0.03602888
FLNA	1864.62013	2.148236731	0.64041705	3.354434001	0.00079528	0.01389169
MTFP1	63.4296318	2.154870824	0.43656403	4.935978814	7.97E-07	0.00012886
TRIP10	159.260126	2.159127386	0.62163214	3.473320058	0.00051406	0.01052709
HIST1H2AB	64.0885783	2.165424916	0.63680194	3.400468464	0.0006727	0.01250457
SOX4	36.6983485	2.197328078	0.67212005	3.269249435	0.00107833	0.01714313
SLC39A14	204.651533	2.200413742	0.57768476	3.809021646	0.00013952	0.00438111
ERO1L	391.409978	2.200790649	0.583538	3.771460722	0.00016229	0.00488721
FZD7	100.482783	2.206671202	0.73920658	2.985188791	0.00283403	0.03266331
NRP2	832.921902	2.207275155	0.44413835	4.969791833	6.70E-07	0.00011611
EFEMP1	944.664291	2.210091546	0.57194932	3.864138745	0.00011148	0.00373175
SNORA38	939.819458	2.215330057	0.72607832	3.051089655	0.00228012	0.0286148
CDKN1A	437.385044	2.218037121	0.64065759	3.462125707	0.00053593	0.01075951
ODZ1	490.165736	2.221742951	0.74049436	3.000350945	0.00269669	0.03164464
PCOLCE	64.0561148	2.222677682	0.74739151	2.973913466	0.00294028	0.03365699
IL32	134.078907	2.227884233	0.64959368	3.429658099	0.00060434	0.01161941
GFPT2	327.909404	2.234973892	0.48097485	4.646758346	3.37E-06	0.00033727
JAG1	658.277833	2.236540214	0.52064213	4.295734194	1.74E-05	0.00104869
TAGLN	1391.55372	2.240512517	0.75364567	2.972899064	0.00295001	0.03372248
VIM	41422.1978	2.250537269	0.67509356	3.333667218	0.00085709	0.01460706
TGFB1I1	74.943367	2.250653866	0.60867319	3.697639242	0.00021761	0.00604313
EMP3	964.361033	2.256134681	0.56650942	3.982519249	6.82E-05	0.00265241
SERPINH1	805.727292	2.268386876	0.65676723	3.453867314	0.00055261	0.01095052
PFKFB4	166.494164	2.269636389	0.60267088	3.765963233	0.00016591	0.00493437
TRIB2	796.588682	2.277775857	0.43754012	5.205867368	1.93E-07	5.10E-05
TNFAIP2	68.241535	2.290999052	0.66321726	3.454371882	0.00055158	0.01095052
GBP2	2171.68075	2.291144493	0.76700242	2.98714114	0.002816	0.03250001
PLOD2	843.674292	2.291661064	0.71363678	3.211242925	0.00132162	0.01966384
HIST1H1D	421.300585	2.293100927	0.48836658	4.69545011	2.66E-06	0.00029384
KCNE4	11.473221	2.297065813	0.59405335	3.866766853	0.00011029	0.00371492
EVC2	68.2006763	2.29932037	0.70553275	3.258984587	0.00111812	0.01757423
STK17A	176.434862	2.321475048	0.44719759	5.191161773	2.09E-07	5.24E-05
FBLIM1	95.0171502	2.329938111	0.60385955	3.858410612	0.00011413	0.0038127
HK2	470.564994	2.3401345	0.71065215	3.292939462	0.00099146	0.01609707
PPP1R3B	83.805536	2.346609068	0.63999914	3.666581608	0.00024581	0.00652554

STEAP3	406.250613	2.359708081	0.82108593	2.873886888	0.00405454	0.04163439
ZC3H12A	33.9383057	2.373364263	0.63387821	3.744196005	0.00018097	0.00528915
LANCL2	990.299975	2.377326094	0.72515007	3.278391872	0.001044	0.01674588
IGFBP2	3001.90922	2.390776987	0.84193413	2.839624747	0.00451666	0.04462122
COL4A2	639.13972	2.396894208	0.66052541	3.628769102	0.00028478	0.0072396
ARAP3	124.509932	2.397381892	0.5042525	4.75432826	1.99E-06	0.00024422
SLC16A3	403.340363	2.40084097	0.71890664	3.339572687	0.00083907	0.01441647
EHD2	329.02593	2.411928918	0.51525514	4.681038027	2.85E-06	0.00030165
ACPL2	1787.96918	2.419277501	0.5219312	4.635242183	3.57E-06	0.00034431
HIST1H2AJ	559.964738	2.420232606	0.77148665	3.137102388	0.00170627	0.02357901
TNFRSF10B	1147.87575	2.42197659	0.56091255	4.317921897	1.58E-05	0.000966
AFAP1L1	196.318462	2.422099109	0.45720233	5.297652594	1.17E-07	3.73E-05
C1R	447.820373	2.439112323	0.6718668	3.630351031	0.00028304	0.00720627
DPP4	54.0354535	2.439344122	0.67875107	3.593871507	0.0003258	0.00794047
DIAPH3	10.4313419	2.439415545	0.86751354	2.811962499	0.00492402	0.04733599
NAMPT	3681.56053	2.444139398	0.68089332	3.589606968	0.00033118	0.00800733
PHKG1	191.476664	2.447342745	0.85689241	2.856067712	0.00428924	0.04323715
CARS	44.1385399	2.451152164	0.71419403	3.432053584	0.00059903	0.01154786
FAM83G	11.2991402	2.480032152	0.85910052	2.886777613	0.00389209	0.04029742
MPZL2	21.886922	2.501190815	0.68778355	3.636595878	0.00027626	0.00707977
TGIF1	26.22697	2.505762041	0.74746389	3.352351982	0.00080128	0.01395308
SLC2A1	3826.85702	2.51000361	0.6421536	3.908727754	9.28E-05	0.00325535
PALM3	27.9094074	2.52160377	0.54316073	4.642463312	3.44E-06	0.00033898
IGFBP5	19994.2296	2.523317823	0.75405383	3.346336454	0.00081887	0.01420817
STAC	32.6001698	2.526420182	0.88424641	2.857144983	0.00427471	0.04316836
TNC	2316.40242	2.531675114	0.81622097	3.101703117	0.00192411	0.0254188
GRB10	1970.85845	2.535827942	0.54634393	4.641449846	3.46E-06	0.00033898
COL28A1	419.773216	2.545180814	0.6682687	3.808618899	0.00013975	0.00438111
C15orf42	26.4705045	2.547703604	0.6660267	3.82522743	0.00013065	0.00416936
DPF3	326.630348	2.552022202	0.5527809	4.616697519	3.90E-06	0.00036551
GADD45A	377.509732	2.552735849	0.69387642	3.678948841	0.0002342	0.00630681
ADAMTS9	660.411873	2.570224287	0.52872775	4.861148799	1.17E-06	0.00017203
FREM2	138.912008	2.57039514	0.78721353	3.265181621	0.00109394	0.01734203
TUBB6	210.466227	2.572255006	0.72191992	3.56307526	0.00036654	0.00853084
RDH10	369.63482	2.576547903	0.70519767	3.653653466	0.00025854	0.00675649
PLIN2	1912.21289	2.579092396	0.80590599	3.200239756	0.00137313	0.02022272
MMP19	30.5861396	2.583133828	0.82679792	3.124262615	0.00178251	0.02409762
FER1L4	68.1696247	2.595573331	0.78278712	3.315809955	0.00091378	0.01524841
ZNF395	425.011514	2.599051003	0.57156712	4.547236696	5.44E-06	0.00044339
ITGA3	208.4517	2.599501284	0.6490891	4.004845065	6.21E-05	0.00248071
ICAM1	113.551421	2.600955383	0.62335934	4.172481639	3.01E-05	0.00152753
LOC646329	35.3534832	2.624773244	0.6916132	3.795146258	0.00014756	0.00454961
ETV4	11.8077497	2.625075643	0.80721944	3.25199756	0.00114597	0.01776465
MMP9	52.6714203	2.627490248	0.8544831	3.074947001	0.0021054	0.02700697
SERPINE1	1250.36381	2.640923527	0.83385056	3.16714249	0.00153945	0.0218123
SOD2	16606.8993	2.650359547	0.66514411	3.984639572	6.76E-05	0.00263494
CNGA3	184.071574	2.663363189	0.86440023	3.081168996	0.0020619	0.02657063
SDC1	38.01046	2.672070382	0.83057183	3.217145447	0.00129473	0.01942557

FAM20C	522.669934	2.692003162	0.58667513	4.588575524	4.46E-06	0.00038639
MT1X	4334.71829	2.694467866	0.69870079	3.856397315	0.00011507	0.00383659
TRIB3	227.640989	2.721558566	0.76229298	3.570226448	0.00035667	0.00837085
RPL17	25.0906106	2.741472643	0.71343507	3.842637929	0.00012172	0.00396644
HIST1H2BI	118.169096	2.753503035	0.67601569	4.073134816	4.64E-05	0.00204701
HIST1H3F	668.896779	2.753520649	0.77804742	3.539013937	0.00040162	0.00905404
TMEM45A	60.8951456	2.756779402	0.71026755	3.881325313	0.00010389	0.00354107
SYNPO	18.7325319	2.764680593	0.69268725	3.991239298	6.57E-05	0.00257461
MEX3A	43.7588846	2.767792925	0.73353534	3.773223691	0.00016115	0.00486175
COL3A1	309.104657	2.769916425	0.8709973	3.180166481	0.0014719	0.02118996
TREM1	85.6795153	2.778164234	0.91812101	3.02592381	0.00247875	0.03011777
COL4A1	758.131934	2.779967393	0.75400606	3.686929782	0.00022698	0.0062119
PCDHGB2	53.813729	2.783036076	0.79898818	3.483200563	0.00049546	0.01030645
TMEM158	532.606656	2.800275164	0.62847492	4.455667329	8.36E-06	0.00060316
STC1	295.932166	2.816942385	0.86652852	3.250836308	0.00115066	0.01779648
ITGA5	429.140742	2.836513702	0.57658722	4.919487676	8.68E-07	0.00013756
STC2	308.009657	2.855614546	0.881218	3.240531323	0.00119307	0.01834632
WWTR1	2211.14098	2.857121342	0.56514734	5.055533577	4.29E-07	8.39E-05
PDPN	891.106608	2.866608144	0.80067327	3.580247089	0.00034327	0.00815884
SYCE2	15.2930875	2.893203201	0.74639989	3.876210647	0.0001061	0.00359472
JUN	27.5897877	2.895805116	0.7206867	4.01811925	5.87E-05	0.0023973
ACCN4	109.801781	2.917489224	0.62006709	4.705118612	2.54E-06	0.00028614
GJD3	7.5705467	2.920601811	0.86856541	3.362558294	0.00077224	0.01367407
C5orf62	144.248561	2.934768056	0.64537759	4.547365929	5.43E-06	0.00044339
POU3F4	161.048467	2.936728353	0.4621414	6.354610038	2.09E-10	3.19E-07
CLCF1	17.3647117	2.939045989	0.94337284	3.115465972	0.00183655	0.02453204
TNFRSF19	108.858592	2.956224992	0.68635996	4.307105849	1.65E-05	0.00101071
MT1H	55.8506766	2.968014788	0.76792956	3.864957099	0.00011111	0.00372669
AEBP1	639.467612	2.975906711	0.8628661	3.448862697	0.00056295	0.01110312
IGFBP3	1023.63918	2.981396889	0.75093254	3.970259306	7.18E-05	0.00274814
TEAD4	135.759938	2.995412063	0.58691842	5.103625902	3.33E-07	7.14E-05
VOPP1	1056.03268	3.004355207	0.69052415	4.350832937	1.36E-05	0.00085676
DNAH11	37.3772872	3.037710889	0.8399481	3.616545956	0.00029856	0.00747691
FBN2	151.973604	3.040859029	0.90716563	3.352043909	0.00080217	0.01395416
C8orf4	1023.56577	3.054177884	0.72607777	4.206406003	2.59E-05	0.00138855
CHI3L1	31282.2317	3.059634538	1.01140404	3.025135776	0.00248522	0.03013099
ARSJ	61.2712218	3.069389451	0.70473722	4.355367328	1.33E-05	0.00084879
MRC2	1008.33463	3.0746664	0.55204367	5.569607153	2.55E-08	1.30E-05
TUBA1C	4846.93789	3.080654628	0.68373461	4.505629216	6.62E-06	0.00051555
NPNT	122.938611	3.080827963	0.65660549	4.692053325	2.70E-06	0.00029384
TEAD3	84.2309831	3.087803462	0.51707101	5.971720337	2.35E-09	1.88E-06
WEE1	431.755166	3.102453508	0.71800841	4.3209153	1.55E-05	0.00095995
DMBX1	7.00567702	3.157158736	1.06326115	2.969316372	0.00298463	0.03393277
HILPDA	8.24888191	3.178818341	0.90386165	3.516930212	0.00043657	0.00957715
GPRC5A	127.398981	3.181658713	1.05725652	3.009353607	0.00261804	0.03108286
SPOCD1	255.207527	3.204135281	0.92340597	3.46990966	0.00052063	0.01060451
FAM115C	17.3061808	3.21120844	0.75350931	4.261670567	2.03E-05	0.00116767
USP6	89.5188018	3.227858958	1.13765959	2.837280137	0.00454997	0.04486951

PTX3	77.3089805	3.276527044	0.77736592	4.214909565	2.50E-05	0.00134582
HSPA6	1011.50921	3.342593344	0.87869346	3.804049405	0.00014235	0.00442153
LRRN4CL	18.5642129	3.349395137	0.8893135	3.766270449	0.0001657	0.00493437
CD44	19.1887542	3.36296753	1.01154888	3.32457243	0.00088554	0.01491563
ANGPTL4	210.239335	3.373154678	0.775141	4.351665926	1.35E-05	0.00085673
FKBP9L	10.1783559	3.485569026	1.00640792	3.463375999	0.00053344	0.01074772
HIST1H2BJ	130.962706	3.49216146	1.10279469	3.166646959	0.00154207	0.0218123
AMH	24.3742949	3.495976693	1.08759485	3.214410862	0.00130712	0.01953678
CPA4	25.1218839	3.544531772	0.8269953	4.286036175	1.82E-05	0.00107622
NHLH1	7.40895937	3.586108168	1.17129678	3.061656311	0.00220116	0.02788228
C2CD4A	11.0590447	3.588203008	1.00130014	3.583543908	0.00033896	0.00813707
ESR2	9.80794201	3.596559751	0.91979239	3.910186442	9.22E-05	0.00324895
KCTD14	5.94127901	3.609162838	1.06772314	3.380242216	0.00072422	0.01321356
VEGFA	12655.985	3.61631119	0.96815106	3.73527575	0.00018751	0.0053954
C1QTNF1	31.3613485	3.620236182	1.05758831	3.423105336	0.0006191	0.01182201
PI3	29.1587736	3.628204157	0.88710895	4.089919457	4.32E-05	0.00195981
DUSP4	149.331395	3.631683876	0.69313806	5.23948123	1.61E-07	4.44E-05
SEC61G	6935.98438	3.635220017	0.78360759	4.639082172	3.50E-06	0.00033993
METTL7B	381.12075	3.643255798	0.63352484	5.750770287	8.88E-09	5.74E-06
MGC12916	56.5103889	3.696333975	0.78849079	4.687859421	2.76E-06	0.00029549
MMP7	61.3779873	3.696982331	1.09902722	3.363867852	0.00076858	0.01367251
ABCC3	152.624885	3.72383955	1.09262758	3.408150797	0.00065405	0.01229375
CXCL3	45.4490207	3.906225965	1.08386168	3.603989351	0.00031337	0.00774392
SP8	13.1739023	3.972708818	1.31855047	3.012936485	0.00258733	0.03095989
CHRNA1	44.4452729	4.049030559	0.90647317	4.46679579	7.94E-06	0.00058112
CHRD2	13.0670304	4.051196843	0.90713674	4.465916403	7.97E-06	0.00058112
CA12	350.819193	4.180340795	0.8387615	4.983944556	6.23E-07	0.00011137
SCNN1G	24.143647	4.246342883	1.06725621	3.978747416	6.93E-05	0.00266783
HIST1H2BO	135.488512	4.281346782	1.02315487	4.184456227	2.86E-05	0.00148254
GOLGA8B	121.12628	4.318035511	1.0751436	4.016240716	5.91E-05	0.00240067
GDF15	68.600999	4.406109958	0.90426466	4.872588925	1.10E-06	0.00016508
MATL2963	3.84847241	4.479716931	1.40741709	3.182934861	0.0014579	0.02106502
HS3ST3A1	28.1070159	4.534739091	0.84548655	5.363466852	8.16E-08	2.98E-05
PLA2G2A	392.968763	4.594049069	1.06239268	4.324247661	1.53E-05	0.00094904
H19	120.958901	4.645498699	0.98369765	4.722486301	2.33E-06	0.00027
CHRNA9	19.9404049	4.70153278	1.20225935	3.910581159	9.21E-05	0.00324895
ADM	1799.5495	4.75258268	0.90617309	5.244674253	1.57E-07	4.38E-05
SAA2-SAA4	9.46699129	4.828101386	1.59705571	3.023126465	0.00250178	0.0302445
C6orf141	383.516594	4.873694596	0.89712902	5.432545914	5.56E-08	2.22E-05
GJA3	16.9717761	4.981245196	1.26758686	3.929707178	8.50E-05	0.00308011
POSTN	373.953954	5.02471421	0.81794659	6.143083504	8.09E-10	8.63E-07
LIF	15.0786244	5.217353554	1.32243374	3.945266501	7.97E-05	0.00293743
TCF23	9.00876614	5.237463919	1.19620496	4.378400089	1.20E-05	0.00078622
EGFR	14356.2295	5.365523448	0.83719267	6.408947027	1.47E-10	3.08E-07
HMGA2	18.0092384	5.724085522	1.24481229	4.598352351	4.26E-06	0.00037568
UPK3BL	65.0217479	23.02133542	2.98701191	7.707145506	1.29E-14	5.41E-11