

probes	moduleColor	GS. IDD	p. GS. IDD	MEbrown	MEbrown
MFS3	brown	0.364637168	5.73E-15	-0.525506455	6.71E-32
ESM1	brown	0.30799055	6.69E-11	-0.270231243	1.24E-08
TOMM40	brown	0.351119675	6.39E-14	-0.588242927	2.21E-41
LHX5	brown	0.157096968	0.00108132	-0.194022966	5.12E-05
MYOM2	brown	-0.537213589	1.61E-33	0.586076023	5.09E-41
SPCS2	brown	0.215827354	6.31E-06	-0.274979919	6.73E-09
SETDB2	brown	-0.10312656	0.032520298	0.302713664	1.46E-10
COX17	brown	0.277426023	4.88E-09	-0.334641389	1.04E-12
FANK1	brown	0.187505344	9.17E-05	-0.230928515	1.30E-06
PTPRB	brown	-0.11035711	0.022094044	0.405483779	1.90E-18
TRABD2B	brown	-0.234198697	9.07E-07	0.377277438	5.41E-16
SLC2A1	brown	0.122305456	0.011138178	-0.370636689	1.89E-15
GLYCTK	brown	0.206737867	1.55E-05	-0.221297209	3.60E-06
KCNE4	brown	-0.333452069	1.26E-12	0.763926791	1.91E-83
HOXC13	brown	0.190971067	6.74E-05	-0.2761926	5.74E-09
NME2	brown	0.125078317	0.009422479	-0.231816611	1.18E-06
PHLDA2	brown	0.031541308	0.514199313	-0.303491407	1.30E-10
EPHA3	brown	-0.427695488	1.50E-20	0.766499213	2.49E-84
C1orf35	brown	0.365892545	4.55E-15	-0.584230368	1.03E-40
PDE5A	brown	-0.411569267	5.22E-19	0.754489887	2.70E-80
PLIN4	brown	-0.306277418	8.63E-11	0.389952842	4.56E-17
HEY2	brown	-0.127411798	0.008165105	0.355398352	3.01E-14
ACOX2	brown	-0.456211717	1.72E-23	0.743458124	8.63E-77
OR51E2	brown	-0.028615689	0.553996926	0.342946464	2.60E-13
ASB2	brown	-0.482268742	1.98E-26	0.740926369	5.19E-76
EXOSC7	brown	0.218905519	4.61E-06	-0.430010958	8.83E-21
FAM86C1	brown	0.221943002	3.37E-06	-0.278294635	4.35E-09
SH3D21	brown	0.210265274	1.10E-05	-0.309809003	5.10E-11
PPP4C	brown	0.356716772	2.39E-14	-0.566748487	6.65E-38
JAKMIP3	brown	-0.160128854	0.000861113	0.297459186	3.11E-10
ALDOA	brown	0.128956147	0.007417479	-0.395433914	1.51E-17
RCAN3	brown	0.240346743	4.57E-07	-0.291651045	7.06E-10
LCN6	brown	-0.43309584	4.36E-21	0.580621563	4.05E-40
MED31	brown	0.173005814	0.000312999	-0.348584506	9.91E-14
LEMD2	brown	0.404226618	2.47E-18	-0.460821904	5.41E-24
FAM69B	brown	-0.046252493	0.338651848	0.17073553	0.000376133
MPLKIP	brown	0.359942899	1.34E-14	-0.434863872	2.89E-21
MRPL22	brown	0.225939691	2.21E-06	-0.3790607	3.84E-16
GALNT16	brown	-0.20796216	1.38E-05	0.478368709	5.65E-26
NLGN3	brown	-0.21893783	4.59E-06	0.373005658	1.21E-15
ITGB6	brown	0.178887489	0.000192384	-0.274959462	6.74E-09
SLC18A2	brown	-0.186165192	0.000103106	0.495342335	5.29E-28
DENND5A	brown	-0.263185578	3.03E-08	0.680729028	7.92E-60
ADCY2	brown	-0.321683529	8.28E-12	0.476643415	8.96E-26
EIF3I	brown	0.234848675	8.44E-07	-0.451202899	5.91E-23
PDE1C	brown	-0.52110252	2.63E-31	0.811692071	5.35E-102
PRG4	brown	-0.097840942	0.042577114	0.417782468	1.36E-19
PCDHGA2	brown	-0.149516901	0.001877747	0.390280959	4.27E-17
TULP2	brown	-0.191353034	6.51E-05	0.301763937	1.67E-10
POU6F1	brown	-0.303579036	1.28E-10	0.670459439	1.90E-57

CSPG4	brown	-0.223593493	2.83E-06	0.546057544	8.69E-35
PLP1	brown	-0.693532981	6.19E-63	0.729553505	1.27E-72
ZFYVE19	brown	0.3109771	4.28E-11	-0.393955016	2.04E-17
NR2F1	brown	-0.319096344	1.24E-11	0.545713498	9.75E-35
PTGS2	brown	-0.275803796	6.04E-09	0.290465894	8.33E-10
OSBPL5	brown	-0.236258431	7.22E-07	0.490283571	2.19E-27
C8orf76	brown	0.327470863	3.31E-12	-0.478229385	5.87E-26
DDR1	brown	0.213241531	8.18E-06	-0.48288265	1.67E-26
CDH6	brown	-0.106956095	0.026568608	0.408431069	1.02E-18
PLIN1	brown	-0.181483576	0.000154429	0.402117454	3.84E-18
PDIA3	brown	0.371761448	1.53E-15	-0.398471831	8.15E-18
KLHL10	brown	-0.381033762	2.63E-16	0.615981109	2.83E-46
QRFP	brown	-0.323699392	6.03E-12	0.371956865	1.48E-15
MAPK4	brown	-0.276200357	5.73E-09	0.405552801	1.87E-18
VSTM2A	brown	-0.464237393	2.27E-24	0.233872416	9.40E-07
FGF10	brown	-0.564362106	1.56E-37	0.786255924	1.60E-91
RASD2	brown	-0.13831145	0.004058719	0.379047877	3.85E-16
TYK2	brown	0.304640439	1.10E-10	-0.280051734	3.44E-09
TMOD1	brown	-0.49843159	2.20E-28	0.786887372	9.13E-92
FXYD6	brown	-0.416817303	1.68E-19	0.824905469	4.31E-108
ANTXR2	brown	-0.357195252	2.19E-14	0.706366986	3.23E-66
PBX1	brown	-0.257149813	6.37E-08	0.362426973	8.57E-15
COL19A1	brown	-0.460535468	5.82E-24	0.618275701	1.06E-46
SORBS2	brown	-0.483138964	1.56E-26	0.706117861	3.76E-66
ENTPD6	brown	0.342602103	2.75E-13	-0.414791599	2.61E-19
CD01	brown	-0.314556598	2.49E-11	0.559857792	7.67E-37
PLCD4	brown	-0.532793653	6.69E-33	0.778739262	1.07E-88
FAT3	brown	-0.215220225	6.71E-06	0.35912314	1.55E-14
CDON	brown	-0.344682536	1.93E-13	0.597307332	6.27E-43
PRX	brown	-0.285913675	1.56E-09	0.501713474	8.57E-29
HSPA1L	brown	-0.153573621	0.001401852	0.259684105	4.67E-08
KCNE3	brown	0.052527068	0.277123318	0.139214086	0.003821904
SCN2B	brown	-0.408422979	1.02E-18	0.559156874	9.81E-37
RNF112	brown	-0.466810057	1.17E-24	0.668349039	5.69E-57
AC011530.4	brown	-0.478932482	4.86E-26	0.625682646	4.20E-48
FAM46B	brown	-0.355325051	3.05E-14	0.46942216	5.98E-25
ANO4	brown	-0.216869667	5.68E-06	0.273693168	7.95E-09
CFL2	brown	-0.449523852	8.90E-23	0.828108617	1.20E-109
NRN1	brown	-0.205200399	1.80E-05	0.345397875	1.71E-13
NFASC	brown	-0.464683185	2.03E-24	0.648181771	1.33E-52
HGH1	brown	0.454107654	2.89E-23	-0.515065033	1.66E-30
GTPBP2	brown	0.311752302	3.81E-11	-0.366185577	4.31E-15
CRTAP	brown	-0.31106048	4.23E-11	0.579683916	5.76E-40
DDR2	brown	-0.390549818	4.05E-17	0.844010252	7.16E-118
ADAM8	brown	0.243948236	3.03E-07	-0.250257248	1.45E-07
FBXL22	brown	-0.458055768	1.08E-23	0.797945025	3.77E-96
KLF4	brown	-0.38619554	9.60E-17	0.261508768	3.73E-08
KIAA1614	brown	-0.330864216	1.92E-12	0.67800695	3.46E-59
KCNA5	brown	-0.490135115	2.28E-27	0.69738137	6.70E-64
MOCOS	brown	0.237217708	6.49E-07	-0.366588275	4.01E-15
CHMP1A	brown	0.210363017	1.09E-05	-0.383702348	1.57E-16

EPHA7	brown	-0.429769211	9.34E-21	0.605664979	2.12E-44
DCAF13	brown	0.259967218	4.52E-08	-0.343215994	2.48E-13
CAMKK1	brown	-0.224310729	2.63E-06	0.240735887	4.37E-07
C1QTNF4	brown	-0.161776285	0.000759618	0.269916993	1.30E-08
PROC	brown	0.128786275	0.007496607	-0.179052915	0.000189726
RRP9	brown	0.257183285	6.35E-08	-0.434321193	3.28E-21
RRAGD	brown	-0.168489785	0.00045009	0.367538619	3.36E-15
FABP5	brown	0.054206973	0.262027224	-0.363480318	7.07E-15
C8orf88	brown	-0.312261519	3.53E-11	0.616758375	2.03E-46
PCGF5	brown	-0.19640915	4.11E-05	0.399185593	7.04E-18
F11R	brown	0.270795157	1.16E-08	-0.466903428	1.15E-24
MYOZ2	brown	-0.320311771	1.03E-11	0.597972175	4.81E-43
EYA4	brown	-0.26611542	2.10E-08	0.367263106	3.54E-15
TYSND1	brown	0.268156418	1.62E-08	-0.497772231	2.66E-28
LPAR2	brown	0.336655072	7.44E-13	-0.562649906	2.87E-37
C1QTNF9	brown	-0.49187422	1.40E-27	0.643480241	1.25E-51
DDT	brown	0.150160327	0.001793532	-0.328164664	2.97E-12
ITIH5	brown	-0.546572175	7.31E-35	0.787852908	3.87E-92
LPHN2	brown	-0.111348441	0.020919448	0.277641906	4.74E-09
F2RL3	brown	-0.003108858	0.948747958	0.278885687	4.02E-09
MYOC	brown	-0.641255272	3.54E-51	0.681589675	4.95E-60
GPCPD1	brown	-0.186433293	0.000100717	0.332403854	1.49E-12
LRCH2	brown	-0.375087278	8.20E-16	0.687112441	2.34E-61
PDZD4	brown	-0.408837252	9.36E-19	0.603339924	5.50E-44
CD200	brown	-0.276564431	5.46E-09	0.649305028	7.75E-53
CADPS2	brown	-0.046880705	0.33212498	0.242387373	3.62E-07
CTDSPL	brown	-0.141367259	0.003306703	0.170536343	0.000382203
DNAJB5	brown	-0.407317802	1.29E-18	0.750586418	4.92E-79
USHBP1	brown	-0.217362383	5.40E-06	0.497266725	3.07E-28
DYNC1I1	brown	-0.244222965	2.94E-07	0.476138295	1.02E-25
RASSF7	brown	0.33590123	8.43E-13	-0.594982282	1.58E-42
CC2D1B	brown	0.312575117	3.36E-11	-0.37368356	1.07E-15
DDX56	brown	0.390265589	4.29E-17	-0.569192195	2.75E-38
MPC1	brown	-0.200113404	2.92E-05	0.196020818	4.26E-05
IQSEC1	brown	-0.106658447	0.026994965	0.283511979	2.16E-09
F10	brown	-0.654439638	6.37E-54	0.738191918	3.52E-75
C16orf74	brown	0.135986736	0.004730929	-0.459738509	7.11E-24
NTF4	brown	0.067344947	0.163313825	-0.290280362	8.55E-10
ITPR1	brown	-0.413412551	3.51E-19	0.716968517	4.58E-69
ABCB4	brown	-0.273946009	7.70E-09	0.636765472	2.84E-50
FAM83H	brown	0.358034141	1.89E-14	-0.685435317	5.96E-61
ATP2B4	brown	-0.282081322	2.62E-09	0.519172279	4.76E-31
MOCS2	brown	-0.106024655	0.027922468	0.214764029	7.02E-06
CDC37	brown	0.218336572	4.89E-06	-0.393769109	2.12E-17
FAM162B	brown	-0.28609454	1.52E-09	0.305184968	1.01E-10
DCLK1	brown	-0.342463972	2.82E-13	0.648738066	1.02E-52
EFNB1	brown	0.012047439	0.803281215	-0.286076994	1.53E-09
RNF135	brown	0.241850698	3.85E-07	-0.240412483	4.54E-07
INPP5B	brown	-0.155166198	0.001247464	0.424147027	3.32E-20
COASY	brown	0.42135724	6.18E-20	-0.625021327	5.62E-48
RPS6KA2	brown	-0.356314785	2.56E-14	0.577970522	1.09E-39

DNALI1	brown	-0.14402799	0.002757461	0.233397025	9.91E-07
ASB1	brown	-0.237626101	6.20E-07	0.421198116	6.40E-20
POLR2H	brown	0.464740857	2.00E-24	-0.662498109	1.14E-55
RER1	brown	0.320136639	1.05E-11	-0.454885621	2.39E-23
MPZ	brown	-0.414339491	2.87E-19	0.464638591	2.05E-24
TP63	brown	0.118031238	0.014325767	-0.366950161	3.75E-15
TMEM41A	brown	0.314380141	2.56E-11	-0.40764239	1.21E-18
RBM24	brown	-0.520058747	3.63E-31	0.724381559	3.90E-71
GNAO1	brown	-0.430963569	7.11E-21	0.744755144	3.41E-77
USP2	brown	-0.345474714	1.69E-13	0.33550736	8.99E-13
TRIM7	brown	0.106135713	0.027757992	-0.286042596	1.53E-09
CACNA2D1	brown	-0.300309148	2.06E-10	0.680123617	1.10E-59
TEF	brown	-0.286314942	1.48E-09	0.276921479	5.21E-09
DESI1	brown	0.136771916	0.004493417	-0.220721784	3.82E-06
ITGA10	brown	-0.118292625	0.014109983	0.416013187	2.00E-19
OXLD1	brown	0.394707283	1.76E-17	-0.555273967	3.78E-36
TNS4	brown	0.079123673	0.101309691	-0.3966042	1.19E-17
PPIF	brown	0.21287652	8.48E-06	-0.365077478	5.29E-15
ARHGEF25	brown	-0.34199173	3.05E-13	0.650884806	3.61E-53
NEURL1	brown	-0.228606465	1.67E-06	0.467761737	9.19E-25
RPUSD3	brown	0.294388227	4.81E-10	-0.358294739	1.80E-14
EHP1L1	brown	-0.204407895	1.94E-05	0.259191869	4.97E-08
PCDH12	brown	-0.031150545	0.5194279	0.446843464	1.70E-22
PLSCR4	brown	-0.312815815	3.24E-11	0.683313952	1.92E-60
RGL1	brown	-0.234352108	8.92E-07	0.607562749	9.71E-45
RARB	brown	-0.199238805	3.16E-05	0.468460851	7.67E-25
IGSF10	brown	-0.493861757	8.04E-28	0.526469358	4.96E-32
PEMT	brown	0.212846564	8.51E-06	-0.376148343	6.71E-16
SNRPE	brown	0.326380245	3.94E-12	-0.48528797	8.69E-27
TBX18	brown	-0.126298091	0.008745237	0.303554727	1.29E-10
ELN	brown	-0.298253924	2.77E-10	0.675679925	1.20E-58
LEFTY2	brown	-0.057263295	0.236036036	0.49658003	3.73E-28
IGIP	brown	-0.288863006	1.04E-09	0.526926378	4.30E-32
OTUB1	brown	0.30332345	1.33E-10	-0.5456362	1.00E-34
DMRTA2	brown	0.137857164	0.004182856	-0.200273512	2.87E-05
EID1	brown	-0.266913021	1.90E-08	0.505772404	2.63E-29
FBLN5	brown	-0.386212863	9.57E-17	0.737372779	6.21E-75
IQCJ-SCHIP	brown	-0.257385983	6.19E-08	0.541486391	3.97E-34
SGCG	brown	-0.560114118	7.01E-37	0.602228695	8.65E-44
RBP7	brown	-0.240491753	4.50E-07	0.437014225	1.76E-21
DBNDD2	brown	-0.1849836	0.00011428	0.285009471	1.76E-09
SEMA3A	brown	-0.247223441	2.08E-07	0.556167087	2.78E-36
PRSS22	brown	0.173658571	0.000296767	-0.338191229	5.77E-13
PCGF1	brown	0.417557348	1.43E-19	-0.563547736	2.09E-37
LAMTOR5	brown	0.261676669	3.66E-08	-0.527512153	3.58E-32
SEPP1	brown	-0.247564477	1.99E-07	0.463084117	3.05E-24
SLC8A2	brown	-0.230412924	1.37E-06	0.364749333	5.61E-15
HAPLN2	brown	-0.131452452	0.006337733	0.263069251	3.08E-08
KCTD10	brown	-0.292294227	6.45E-10	0.639058222	9.86E-51
IL11RA	brown	-0.275370799	6.39E-09	0.478685456	5.19E-26
TACC1	brown	-0.258126275	5.66E-08	0.497919635	2.55E-28

GUCA1C	brown	-0.373235831	1.16E-15	0.162142697	0.000738603
SDC3	brown	-0.212009	9.25E-06	0.548379797	3.98E-35
ATP1A2	brown	-0.60900609	5.34E-45	0.838928967	3.81E-115
NUDT7	brown	-0.22776567	1.82E-06	0.320560058	9.87E-12
RABEP1	brown	-0.16434911	0.000623024	0.429052207	1.10E-20
WFDC5	brown	0.032390926	0.50292589	-0.201484009	2.56E-05
LPAR1	brown	-0.316770754	1.77E-11	0.413670671	3.32E-19
PPIA	brown	0.351651475	5.82E-14	-0.555503517	3.49E-36
ALKBH4	brown	0.372775069	1.27E-15	-0.44269024	4.61E-22
BCL6B	brown	-0.165842246	0.000554579	0.537101549	1.67E-33
RBM38	brown	-0.108404649	0.024575444	0.200795562	2.74E-05
NDN	brown	-0.239763425	4.88E-07	0.441939076	5.51E-22
CARD14	brown	0.135936979	0.004746355	-0.304133503	1.18E-10
NFATC4	brown	-0.300299709	2.07E-10	0.513447064	2.70E-30
TNS2	brown	-0.435283233	2.63E-21	0.794931029	6.28E-95
PPIE	brown	0.182519931	0.000141339	-0.273273399	8.40E-09
SRF	brown	-0.46876555	7.09E-25	0.563480606	2.14E-37
NOP14	brown	0.083446912	0.083921804	-0.26345249	2.93E-08
FAM83A	brown	0.133305533	0.005629728	-0.306884242	7.89E-11
RNF126	brown	0.258246227	5.57E-08	-0.560239603	6.71E-37
ZC3H10	brown	-0.020287862	0.674838591	0.211434669	9.79E-06
ALDH1B1	brown	-0.303291197	1.34E-10	0.650309546	4.77E-53
XPNPEP2	brown	-0.521172185	2.58E-31	0.756901544	4.36E-81
ADCYAP1R1	brown	-0.432937559	4.52E-21	0.69889857	2.76E-64
HSPB2-C11o	brown	-0.35532829	3.05E-14	0.503345688	5.34E-29
ECSCR	brown	-0.271580071	1.05E-08	0.549473079	2.75E-35
NSFL1C	brown	0.200390724	2.84E-05	-0.374601005	8.99E-16
STC1	brown	-0.200251761	2.88E-05	0.416926421	1.64E-19
PPM1L	brown	-0.332138288	1.56E-12	0.444506904	2.99E-22
MTHFR	brown	-0.207550722	1.43E-05	0.298590257	2.64E-10
LDLRAD2	brown	-0.45850467	9.69E-24	0.802585878	4.50E-98
SMPX	brown	-0.294477267	4.75E-10	0.522897948	1.51E-31
3-Mar	brown	-0.056400159	0.243184787	0.211370888	9.85E-06
TMEM99	brown	0.227995729	1.78E-06	-0.390874558	3.80E-17
PAK4	brown	0.280574862	3.21E-09	-0.445467898	2.37E-22
MTURN	brown	-0.379035047	3.86E-16	0.479810162	3.84E-26
XPA	brown	-0.229011586	1.59E-06	0.259542967	4.76E-08
MYO1C	brown	-0.13578095	0.004795023	0.266705891	1.95E-08
ATAD3B	brown	0.296259849	3.69E-10	-0.488274053	3.82E-27
GAB2	brown	-0.18169255	0.000151702	0.439151032	1.06E-21
ZHX2	brown	-0.234292057	8.98E-07	0.428183978	1.34E-20
PRDM11	brown	-0.238886287	5.39E-07	0.325873825	4.27E-12
CCDC136	brown	-0.337566429	6.40E-13	0.535256607	3.03E-33
MYL12B	brown	0.280075955	3.43E-09	-0.44949848	8.96E-23
LMCD1	brown	-0.276208286	5.73E-09	0.685601266	5.43E-61
USF1	brown	0.260989781	3.98E-08	-0.310890203	4.34E-11
ZNF540	brown	-0.273915745	7.73E-09	0.42215591	5.18E-20
TMEM259	brown	0.279395665	3.76E-09	-0.457057782	1.39E-23
CDK15	brown	-0.35822232	1.83E-14	0.687959072	1.46E-61
THRA	brown	-0.335812937	8.55E-13	0.588826923	1.76E-41
ANKRD22	brown	0.077181518	0.109999368	-0.227269059	1.92E-06

ACTA1	brown	-0.223897138	2.75E-06	0.376554367	6.21E-16
YWHAЕ	brown	0.225650898	2.28E-06	-0.367280192	3.53E-15
C18orf21	brown	0.270651073	1.18E-08	-0.431802412	5.86E-21
FLAD1	brown	0.402690937	3.41E-18	-0.532751896	6.78E-33
CACNA1H	brown	-0.448427841	1.16E-22	0.765451676	5.73E-84
HEPH	brown	-0.291452222	7.26E-10	0.714358169	2.37E-68
ARRDC1	brown	0.279473767	3.72E-09	-0.478641692	5.25E-26
CCDC89	brown	-0.083068334	0.085341206	0.208591795	1.30E-05
SH3BGR	brown	-0.417320121	1.50E-19	0.636331699	3.47E-50
NTNG1	brown	-0.297062052	3.29E-10	0.537223329	1.60E-33
PCDHGB7	brown	-0.298046063	2.86E-10	0.60091287	1.47E-43
SPNS2	brown	-0.023320505	0.629633893	0.185914723	0.000105385
NME1-NME2	brown	0.232087485	1.14E-06	-0.478613926	5.29E-26
NFIX	brown	-0.360347739	1.25E-14	0.646930441	2.42E-52
CHRDЛ2	brown	-0.152616556	0.001502886	0.61167674	1.75E-45
ADCY4	brown	-0.237737442	6.13E-07	0.592214197	4.70E-42
MRGPRF	brown	-0.429400091	1.02E-20	0.730909152	5.13E-73
DACT3	brown	-0.432498398	5.00E-21	0.831940046	1.51E-111
GID8	brown	0.283232194	2.25E-09	-0.428876399	1.14E-20
JUP	brown	0.252685054	1.09E-07	-0.573634003	5.45E-39
CKM	brown	-0.194212393	5.03E-05	0.221991218	3.35E-06
VAMP8	brown	0.317281477	1.64E-11	-0.530249774	1.51E-32
KCNJ3	brown	-0.335875592	8.46E-13	0.474905023	1.42E-25
ALAS2	brown	-0.07746036	0.108716847	0.196380105	4.12E-05
TBC1D19	brown	-0.109390315	0.023294204	0.379791617	3.34E-16
SLC2A4	brown	-0.578329983	9.56E-40	0.848281809	3.07E-120
ATP13A1	brown	0.39069492	3.94E-17	-0.492942244	1.04E-27
RPP25	brown	0.150738489	0.001720826	-0.248797129	1.73E-07
TMEM216	brown	0.236020616	7.42E-07	-0.352024516	5.45E-14
PAFAH1B3	brown	0.411162068	5.70E-19	-0.597100394	6.81E-43
DRG2	brown	0.157439511	0.001054066	-0.22784765	1.81E-06
PLXNA4	brown	-0.171741894	0.00034681	0.518808532	5.32E-31
C8orf59	brown	0.251280236	1.29E-07	-0.439991107	8.73E-22
FNBP1	brown	-0.402751858	3.36E-18	0.779974047	3.73E-89
FABP3	brown	-0.076544297	0.112974958	0.163961252	0.000642042
MAMDC2	brown	-0.462023104	3.99E-24	0.653604809	9.60E-54
GFRA1	brown	-0.517940682	6.93E-31	0.611991508	1.53E-45
STX18	brown	0.237499169	6.29E-07	-0.250950414	1.34E-07
ZNF354C	brown	-0.112370536	0.019765561	0.338472247	5.50E-13
NAP1L2	brown	-0.364944961	5.42E-15	0.435281287	2.63E-21
CSTF1	brown	0.260056308	4.47E-08	-0.336557738	7.56E-13
ABI3BP	brown	-0.50433111	4.01E-29	0.842148794	7.32E-117
NAPRT	brown	0.148095819	0.002076714	-0.377095708	5.60E-16
MBNL1	brown	-0.283759937	2.09E-09	0.607158556	1.15E-44
MECR	brown	0.278208905	4.40E-09	-0.325360723	4.64E-12
PTCH2	brown	-0.316790576	1.77E-11	0.601041688	1.40E-43
TMEM44	brown	0.29305527	5.80E-10	-0.29761652	3.04E-10
DCUN1D3	brown	-0.40029404	5.60E-18	0.499717985	1.52E-28
NBEA	brown	-0.408358882	1.04E-18	0.618717585	8.76E-47
FAIM2	brown	-0.553104992	7.98E-36	0.727850142	3.97E-72
CRABP2	brown	0.076129994	0.114943266	-0.24699602	2.13E-07

BMP5	brown	-0.422382238	4.92E-20	0.325199667	4.76E-12
C1QTNF2	brown	-0.414380608	2.85E-19	0.66331204	7.55E-56
RASSF3	brown	-0.331630841	1.69E-12	0.675969176	1.03E-58
PGAP2	brown	0.245942012	2.41E-07	-0.508214228	1.28E-29
TMEM234	brown	0.30712072	7.62E-11	-0.392337067	2.83E-17
MAGEE1	brown	-0.102577895	0.033459896	0.226525218	2.08E-06
MFSD5	brown	0.244555489	2.83E-07	-0.490899535	1.84E-27
DLG2	brown	-0.481008097	2.78E-26	0.563491402	2.13E-37
HIPK4	brown	-0.358992349	1.59E-14	0.560916863	5.29E-37
SHISA3	brown	-0.379527626	3.51E-16	0.5141409	2.19E-30
LPP	brown	-0.399756587	6.26E-18	0.753152762	7.33E-80
NT5DC3	brown	-0.329629756	2.34E-12	0.675815778	1.12E-58
LY6K	brown	0.156996797	0.001089411	-0.273141233	8.55E-09
FARSA	brown	0.285998357	1.54E-09	-0.486463846	6.29E-27
FOXO1	brown	-0.225321107	2.36E-06	0.41345384	3.48E-19
CRTC2	brown	0.301886931	1.64E-10	-0.359704489	1.40E-14
ATL1	brown	-0.265602435	2.24E-08	0.482053038	2.10E-26
RPUSD2	brown	0.296333266	3.65E-10	-0.468142337	8.33E-25
GCSAML	brown	-0.37968455	3.41E-16	0.647773093	1.62E-52
SPARCL1	brown	-0.436117709	2.16E-21	0.826097324	1.15E-108
NUDT8	brown	0.26934949	1.39E-08	-0.538793805	9.60E-34
GKAP1	brown	-0.18100466	0.000160855	0.334903429	9.93E-13
SERINC2	brown	0.295824261	3.92E-10	-0.581403226	3.01E-40
TMEM63B	brown	0.202923219	2.24E-05	-0.426724691	1.86E-20
PEAR1	brown	-0.157998452	0.001010953	0.407689958	1.19E-18
SLC2A13	brown	-0.195016626	4.67E-05	0.520733444	2.95E-31
HECTD3	brown	0.262693173	3.22E-08	-0.264089608	2.71E-08
LPPR4	brown	-0.448240817	1.22E-22	0.45188304	5.00E-23
RABGGTA	brown	0.212220262	9.06E-06	-0.441440895	6.20E-22
POP5	brown	0.279871998	3.52E-09	-0.453176672	3.64E-23
FAM135B	brown	-0.430128	8.60E-21	0.268468841	1.56E-08
GMDS	brown	0.215981247	6.21E-06	-0.321549337	8.45E-12
TPM1	brown	-0.382183556	2.10E-16	0.743535866	8.16E-77
PRKD1	brown	-0.198657903	3.34E-05	0.585624395	6.05E-41
HDGFRP3	brown	-0.152398102	0.001526865	0.261755115	3.62E-08
ACSM5	brown	-0.291259801	7.46E-10	0.632433607	2.05E-49
NOVA2	brown	-0.041385213	0.391969688	0.386203127	9.59E-17
LRRC70	brown	-0.306236304	8.68E-11	0.618952216	7.91E-47
GPR17	brown	-0.336623646	7.48E-13	0.691208575	2.33E-62
BTNL9	brown	-0.12693929	0.008406907	0.211954704	9.30E-06
JAM2	brown	-0.510790219	5.98E-30	0.851888367	2.70E-122
HSPB7	brown	-0.384518555	1.33E-16	0.784405692	8.11E-91
PARK2	brown	-0.516878927	9.58E-31	0.674302435	2.50E-58
NOC4L	brown	0.295863243	3.90E-10	-0.489793706	2.51E-27
FBXO32	brown	-0.213356988	8.09E-06	0.614106543	6.27E-46
DDO	brown	-0.111647602	0.020575805	0.219599835	4.29E-06
ZNF205	brown	0.305169603	1.02E-10	-0.445053247	2.62E-22
WBSCR22	brown	0.267245976	1.82E-08	-0.517542859	7.83E-31
CRYM	brown	-0.364169427	6.24E-15	0.518054593	6.70E-31
KIAA1210	brown	-0.20989671	1.14E-05	0.281779624	2.73E-09
SCAMP2	brown	0.209672263	1.17E-05	-0.294630332	4.65E-10

RERG	brown	-0.396273659	1.28E-17	0.712148008	9.39E-68
NEXN	brown	-0.406821743	1.43E-18	0.798703526	1.84E-96
CCNJL	brown	0.082289898	0.088320558	-0.18846549	8.42E-05
ICAM2	brown	-0.180639331	0.000165925	0.31859143	1.34E-11
NOP10	brown	0.29051703	8.27E-10	-0.473513892	2.05E-25
SETBP1	brown	-0.318213564	1.42E-11	0.629314691	8.35E-49
EBF3	brown	-0.302909743	1.41E-10	0.636179666	3.72E-50
DBX2	brown	-0.151563176	0.001621785	0.261770711	3.61E-08
LINC00493	brown	0.171066895	0.000366232	-0.349071714	9.11E-14
SMTNL2	brown	-0.2084399	1.31E-05	0.386307455	9.39E-17
ARMC6	brown	0.325156816	4.79E-12	-0.425584583	2.41E-20
CACNB2	brown	-0.420407824	7.63E-20	0.787614711	4.79E-92
TRIM11	brown	0.331420033	1.75E-12	-0.498405507	2.22E-28
GIT1	brown	0.314086509	2.67E-11	-0.414316025	2.89E-19
LYPD3	brown	0.061468372	0.203327579	-0.319071017	1.24E-11
TRMU	brown	0.356236249	2.60E-14	-0.502917007	6.05E-29
COL21A1	brown	-0.358784119	1.65E-14	0.615817195	3.03E-46
CLEC14A	brown	-0.207188865	1.48E-05	0.501334688	9.55E-29
HPS6	brown	0.176662888	0.00023169	-0.330678359	1.98E-12
HSD17B10	brown	0.213314498	8.12E-06	-0.461982231	4.03E-24
ELTD1	brown	-0.229156754	1.57E-06	0.617553531	1.44E-46
PRKAR2B	brown	-0.337620178	6.34E-13	0.543635029	1.95E-34
CABP1	brown	-0.239494907	5.03E-07	0.313570711	2.89E-11
RNF7	brown	0.279030336	3.94E-09	-0.423509153	3.83E-20
GARNL3	brown	-0.342631046	2.74E-13	0.377389991	5.29E-16
RARA	brown	-0.15539289	0.001226807	0.261763598	3.62E-08
CYP2U1	brown	-0.225513876	2.32E-06	0.547945894	4.61E-35
TNNT2	brown	-0.300431438	2.03E-10	0.462699183	3.36E-24
LRRTM1	brown	-0.37897819	3.91E-16	0.385597928	1.08E-16
FAM124A	brown	-0.311112784	4.20E-11	0.704331858	1.10E-65
EHD4	brown	0.04506747	0.351185437	-0.196129802	4.22E-05
TNFAIP8L3	brown	-0.38586932	1.02E-16	0.703303473	2.04E-65
RRP7A	brown	0.242806707	3.46E-07	-0.399103586	7.16E-18
EIF6	brown	0.281528415	2.82E-09	-0.60520717	2.56E-44
PYCRL	brown	0.34991471	7.87E-14	-0.466949253	1.13E-24
DPH7	brown	0.260827474	4.06E-08	-0.392203215	2.91E-17
TSTA3	brown	0.350244414	7.44E-14	-0.520736004	2.95E-31
DEDD2	brown	0.252525714	1.11E-07	-0.452587247	4.21E-23
ITGB1BP2	brown	-0.405385348	1.94E-18	0.6416356	2.96E-51
ZDHHC8	brown	0.20937603	1.20E-05	-0.231744272	1.19E-06
FOXN3	brown	-0.345667265	1.64E-13	0.621911955	2.19E-47
ORMDL2	brown	0.28480725	1.81E-09	-0.519888738	3.82E-31
NUDT22	brown	0.251928787	1.19E-07	-0.450359081	7.26E-23
ZNF707	brown	0.320699907	9.65E-12	-0.325057324	4.87E-12
PFDN2	brown	0.287208488	1.31E-09	-0.402863252	3.29E-18
NUDT10	brown	-0.25672475	6.71E-08	0.539379436	7.93E-34
PTRH2	brown	0.299964091	2.17E-10	-0.483821096	1.30E-26
TMED3	brown	0.282519819	2.47E-09	-0.418627893	1.13E-19
RFX2	brown	-0.291830116	6.89E-10	0.231059894	1.28E-06
SLC50A1	brown	0.341319265	3.42E-13	-0.416254485	1.90E-19
TDRD10	brown	-0.245039073	2.67E-07	0.498291761	2.29E-28

CCDC110	brown	-0.292269294	6.48E-10	0.550418089	2.00E-35
RSP02	brown	-0.251513647	1.25E-07	0.652330297	1.79E-53
FBXL19	brown	0.297625244	3.03E-10	-0.500935574	1.07E-28
CA3	brown	-0.232248751	1.12E-06	0.542287797	3.04E-34
RGS9BP	brown	-0.082383686	0.087957233	0.210794861	1.04E-05
HOXA11	brown	-0.078542786	0.103849631	0.194525855	4.89E-05
PRRG3	brown	-0.47320477	2.22E-25	0.718829407	1.41E-69
ZHX3	brown	-0.338060577	5.89E-13	0.604190711	3.89E-44
SLC35A2	brown	0.368870854	2.63E-15	-0.415802667	2.09E-19
CBX6	brown	-0.223360827	2.90E-06	0.429220312	1.06E-20
GAR1	brown	0.227783955	1.82E-06	-0.440048063	8.62E-22
PSMG2	brown	0.178234956	0.000203213	-0.281159445	2.97E-09
MAP3K8	brown	-0.252899856	1.06E-07	0.193958321	5.15E-05
CDH5	brown	-0.188306893	8.54E-05	0.594770003	1.72E-42
GID4	brown	-0.178586844	0.000197305	0.320794736	9.51E-12
SH3D19	brown	-0.307615873	7.08E-11	0.532280526	7.88E-33
APBB1	brown	-0.334605127	1.04E-12	0.649073645	8.67E-53
RIC3	brown	-0.297709706	3.00E-10	0.339903984	4.33E-13
CREBRF	brown	-0.29424958	4.90E-10	0.5953227	1.38E-42
ST14	brown	0.312326306	3.49E-11	-0.513986895	2.30E-30
IL17B	brown	-0.294350597	4.83E-10	0.633858191	1.07E-49
CIQTNF7	brown	-0.656092969	2.82E-54	0.777178221	3.98E-88
REEP4	brown	0.29398328	5.09E-10	-0.602149577	8.93E-44
MYH2	brown	-0.376080295	6.79E-16	0.445234766	2.51E-22
PHKG2	brown	0.282499233	2.48E-09	-0.446046073	2.07E-22
MYL9	brown	-0.37920662	3.74E-16	0.71494276	1.64E-68
TES	brown	-0.230877454	1.30E-06	0.384187264	1.42E-16
RSP01	brown	-0.37070165	1.87E-15	0.527091492	4.08E-32
ADCK5	brown	0.310011162	4.95E-11	-0.525376469	6.99E-32
TCF21	brown	-0.628925759	9.94E-49	0.735386054	2.45E-74
LRRK2	brown	-0.449107531	9.85E-23	0.784420252	8.00E-91
CLDN11	brown	-0.17104033	0.000367016	0.361133978	1.08E-14
NR2C2AP	brown	0.35346783	4.24E-14	-0.548094387	4.38E-35
UBE2Q2	brown	-0.194444683	4.92E-05	0.412732344	4.07E-19
SYNC	brown	-0.340128765	4.17E-13	0.759180476	7.64E-82
WNT2B	brown	-0.382484582	1.98E-16	0.440996847	6.89E-22
SLC16A13	brown	0.276589858	5.44E-09	-0.293488275	5.46E-10
SLC25A39	brown	0.416642679	1.74E-19	-0.645863534	4.03E-52
CYTL1	brown	-0.344436562	2.02E-13	0.530132173	1.56E-32
GJB7	brown	0.211627697	9.61E-06	-0.257426907	6.16E-08
IGF1	brown	-0.185998726	0.000104615	0.595333397	1.38E-42
SMAGP	brown	0.156979009	0.001090854	-0.310782621	4.41E-11
SLC16A4	brown	-0.243245627	3.29E-07	0.373837517	1.04E-15
HDAC4	brown	-0.413054612	3.79E-19	0.688622359	1.01E-61
ASPA	brown	-0.588456861	2.03E-41	0.566901352	6.29E-38
BCHE	brown	-0.408702734	9.63E-19	0.627762667	1.67E-48
CLDN7	brown	0.208836844	1.26E-05	-0.468419095	7.75E-25
LDLRAD4	brown	-0.240035685	4.73E-07	0.545176101	1.17E-34
PRDM8	brown	-0.299536401	2.31E-10	0.518387224	6.05E-31
KCNMB1	brown	-0.475998752	1.06E-25	0.826354295	8.62E-109
TSEN34	brown	0.231295433	1.25E-06	-0.375906407	7.02E-16

CBX7	brown	-0.489412699	2.79E-27	0.626598554	2.80E-48
NT5C1A	brown	-0.153557016	0.00140355	0.384916587	1.23E-16
SH3BP2	brown	0.304845374	1.07E-10	-0.309261595	5.54E-11
PELI3	brown	-0.068394043	0.156840232	0.111153719	0.021145791
EXOSC1	brown	0.227106856	1.96E-06	-0.351000612	6.52E-14
SIRT7	brown	0.346782144	1.35E-13	-0.56263407	2.88E-37
TSHZ3	brown	-0.325868199	4.28E-12	0.715624535	1.07E-68
SKIV2L	brown	0.257036553	6.46E-08	-0.345683157	1.63E-13
EPHB1	brown	-0.272886885	8.83E-09	0.475034673	1.37E-25
TMEM88	brown	-0.308261998	6.43E-11	0.366188773	4.31E-15
FRZB	brown	-0.131350543	0.006378891	0.457227233	1.33E-23
SLC25A4	brown	-0.321646606	8.33E-12	0.37686706	5.85E-16
TAF6L	brown	0.305704116	9.39E-11	-0.45427332	2.78E-23
ALG8	brown	0.311152126	4.17E-11	-0.381821755	2.26E-16
SYPL2	brown	-0.351447837	6.03E-14	0.679512157	1.53E-59
PLXND1	brown	-0.012520891	0.795717731	0.398074694	8.84E-18
NEK9	brown	-0.187369306	9.28E-05	0.490786527	1.90E-27
EGR3	brown	-0.528001274	3.07E-32	0.625483489	4.58E-48
ADAMTS9	brown	-0.268210849	1.61E-08	0.682384998	3.20E-60
ACTC1	brown	-0.421650658	5.79E-20	0.763542969	2.58E-83
HSBP1L1	brown	0.271870102	1.01E-08	-0.428767977	1.17E-20
C8orf89	brown	-0.091842079	0.057046059	0.252061109	1.17E-07
DCHS1	brown	-0.343639615	2.31E-13	0.840040384	9.83E-116
GPS1	brown	0.3492477	8.84E-14	-0.46328253	2.90E-24
FAM212B	brown	-0.303243871	1.35E-10	0.314299669	2.59E-11
HSPA2	brown	-0.317590469	1.56E-11	0.44963354	8.67E-23
PPP1R3F	brown	-0.094515308	0.050160531	0.175157701	0.000262415
CCDC64	brown	0.175832646	0.000248194	-0.267545664	1.75E-08
NPR2	brown	-0.35017654	7.53E-14	0.636454166	3.28E-50
ADPGK	brown	0.399043155	7.25E-18	-0.305375088	9.86E-11
TPPP	brown	-0.556502108	2.47E-36	0.528270128	2.82E-32
C15orf59	brown	-0.30667426	8.14E-11	0.356087687	2.67E-14
MXRA7	brown	-0.363135652	7.53E-15	0.694432573	3.69E-63
MATN2	brown	-0.367430035	3.43E-15	0.482739169	1.74E-26
NDUFA12	brown	0.170374837	0.000387193	-0.324472666	5.34E-12
PITPNM2	brown	-0.229238564	1.56E-06	0.413785219	3.24E-19
TRPC3	brown	-0.419488026	9.34E-20	0.601015597	1.41E-43
TRPC4AP	brown	0.286003969	1.54E-09	-0.324241053	5.54E-12
MORN5	brown	-0.508956437	1.03E-29	0.71681791	5.04E-69
DCAF12L1	brown	-0.296801716	3.41E-10	0.365783356	4.65E-15
PDE3A	brown	-0.220462986	3.93E-06	0.660033396	3.96E-55
TMEM69	brown	0.35818278	1.84E-14	-0.520973139	2.74E-31
GATA6	brown	-0.454764614	2.46E-23	0.758816574	1.01E-81
SNRPD3	brown	0.28813598	1.15E-09	-0.448565806	1.12E-22
HSPB8	brown	-0.349657689	8.23E-14	0.523090367	1.42E-31
DTNB	brown	0.171971319	0.00034043	-0.239242564	5.18E-07
YIPF2	brown	0.312251313	3.53E-11	-0.314180027	2.64E-11
PPP1R14A	brown	-0.389640127	4.86E-17	0.638228343	1.45E-50
CX3CL1	brown	-0.254917917	8.35E-08	0.369624335	2.29E-15
ANKRD35	brown	-0.219843322	4.19E-06	0.298631607	2.63E-10
CD164L2	brown	0.128098132	0.007824924	-0.205975408	1.67E-05

COL14A1	brown	-0.43867554	1.19E-21	0.795735952	2.98E-95
DDRGK1	brown	0.221856178	3.40E-06	-0.369384932	2.39E-15
CD302	brown	-0.324367474	5.43E-12	0.653109989	1.22E-53
RAB30	brown	-0.275961817	5.91E-09	0.637466954	2.06E-50
PUS1	brown	0.331534257	1.72E-12	-0.568025358	4.20E-38
SMIM10	brown	-0.295938665	3.86E-10	0.553470655	7.04E-36
DST	brown	-0.155904384	0.001181349	0.295780536	3.95E-10
ANGPT2	brown	0.068938735	0.153556527	0.062645247	0.194792301
ACTG1	brown	0.149613411	0.001864888	-0.325477332	4.55E-12
FAM171A1	brown	-0.169847507	0.000403909	0.452563126	4.23E-23
COA6	brown	0.357559098	2.05E-14	-0.472085356	2.98E-25
DGKZ	brown	0.220515063	3.91E-06	-0.234477352	8.80E-07
JPH2	brown	-0.367439004	3.43E-15	0.705932879	4.20E-66
ARID5B	brown	-0.312301632	3.51E-11	0.587922467	2.50E-41
NEURL1B	brown	-0.226920522	1.99E-06	0.525179589	7.43E-32
PPP1CA	brown	0.368980694	2.58E-15	-0.613944467	6.72E-46
INO80B	brown	0.244603131	2.81E-07	-0.439189276	1.05E-21
MRVI1	brown	-0.425930704	2.23E-20	0.83484811	5.03E-113
TRIM61	brown	-0.138424988	0.004028218	0.227621396	1.85E-06
NFIB	brown	-0.274591803	7.08E-09	0.514858929	1.77E-30
ACACB	brown	-0.49797782	2.50E-28	0.720896003	3.74E-70
CTAGE8	brown	0.130333832	0.006802821	-0.227832336	1.81E-06
CTSG	brown	-0.394215031	1.94E-17	0.757758259	2.27E-81
DES	brown	-0.361363284	1.04E-14	0.670368824	1.99E-57
FAM117A	brown	-0.224199005	2.66E-06	0.368910682	2.61E-15
BMP4	brown	-0.153037019	0.001457703	0.322939713	6.80E-12
MRPS28	brown	0.152812082	0.001481717	-0.312755718	3.27E-11
IGSF8	brown	0.283240734	2.24E-09	-0.409889481	7.48E-19
ACTA2	brown	-0.368188279	2.98E-15	0.74571911	1.71E-77
SYNP02	brown	-0.505184817	3.12E-29	0.858535017	3.11E-126
ANGPT1	brown	-0.179045961	0.000189837	0.430867305	7.27E-21
ADH1B	brown	-0.602718319	7.09E-44	0.731012378	4.79E-73
PRIMA1	brown	-0.514585329	1.92E-30	0.561048272	5.05E-37
ZNF154	brown	-0.300292647	2.07E-10	0.558965704	1.05E-36
MYH11	brown	-0.457355361	1.29E-23	0.7924479	6.15E-94
ISCA2	brown	0.31182589	3.77E-11	-0.341239275	3.46E-13
STAC	brown	-0.249727794	1.55E-07	0.362139116	9.02E-15
BCAP31	brown	0.264353431	2.62E-08	-0.587698962	2.72E-41
GSTP1	brown	0.101864832	0.034715531	-0.421078553	6.58E-20
STON1-GTF2	brown	-0.484983227	9.44E-27	0.732522608	1.73E-73
RBP4	brown	-0.125071027	0.009426663	0.255274988	7.99E-08
NELFCD	brown	0.350312787	7.35E-14	-0.511036938	5.55E-30
C1orf233	brown	0.214815062	6.99E-06	-0.300530627	2.00E-10
MARGPRE	brown	-0.244648209	2.80E-07	0.408857556	9.31E-19
DCAF12L2	brown	-0.195234932	4.58E-05	0.336563598	7.55E-13
CEP68	brown	-0.251892817	1.20E-07	0.471940679	3.10E-25
SCARF1	brown	-0.101761991	0.034899892	0.39752018	9.90E-18
PIH1D1	brown	0.270829893	1.15E-08	-0.433995255	3.54E-21
SMARCD2	brown	0.270315594	1.23E-08	-0.409607965	7.94E-19
CORO1B	brown	0.238429235	5.67E-07	-0.454566954	2.58E-23
CASP8	brown	0.173841005	0.000292373	-0.246596228	2.23E-07

CYGB	brown	-0.31513245	2.28E-11	0.468904656	6.84E-25
AQP1	brown	-0.414316305	2.89E-19	0.714659193	1.96E-68
SLC25A25	brown	-0.478546594	5.39E-26	0.562404903	3.13E-37
MRPS9	brown	0.093414926	0.052905802	-0.311474971	3.97E-11
PRDM5	brown	-0.222342694	3.23E-06	0.44477505	2.80E-22
CLIC4	brown	-0.234819506	8.47E-07	0.638527524	1.26E-50
RPUSD1	brown	0.348977682	9.26E-14	-0.520186628	3.49E-31
NOSTRIN	brown	-0.208754535	1.27E-05	0.335411599	9.13E-13
ZMAT1	brown	-0.193795063	5.22E-05	0.306129037	8.82E-11
PELP1	brown	0.152127402	0.001557066	-0.294455593	4.76E-10
DYSF	brown	-0.234336615	8.94E-07	0.638229222	1.45E-50
GPR115	brown	0.13822153	0.004083022	-0.291002036	7.73E-10
FAM124B	brown	-0.154240152	0.001335217	0.626490159	2.94E-48
ACTN2	brown	-0.379481455	3.55E-16	0.598884551	3.34E-43
STXBP6	brown	-0.278881437	4.02E-09	0.471860731	3.16E-25
KLHL42	brown	-0.253866474	9.47E-08	0.586122171	5.00E-41
MSX1	brown	-0.254259867	9.03E-08	0.434547011	3.12E-21
MAP6	brown	-0.229211585	1.56E-06	0.41182797	4.94E-19
RBKS	brown	-0.320258447	1.03E-11	0.293405062	5.52E-10
ACO04754.3	brown	-0.301164156	1.82E-10	0.422864428	4.42E-20
ANXA8L1	brown	0.130839661	0.006588854	-0.296615121	3.51E-10
RPS6KB2	brown	0.253523513	9.87E-08	-0.467511447	9.81E-25
MTA2	brown	0.268807612	1.49E-08	-0.524671193	8.71E-32
FERMT1	brown	0.233622169	9.67E-07	-0.377956633	4.75E-16
SCUBE3	brown	-0.259942962	4.53E-08	0.582032146	2.38E-40
MLXIP	brown	-0.278111498	4.45E-09	0.582865099	1.73E-40
MYO18B	brown	-0.242438325	3.60E-07	0.314960531	2.34E-11
CTAGE4	brown	0.133393486	0.005597965	-0.209246923	1.21E-05
CFD	brown	-0.509559279	8.62E-30	0.533006409	6.25E-33
STX6	brown	0.259346231	4.87E-08	-0.388415151	6.19E-17
CDKN1C	brown	-0.172209421	0.000333925	0.26720377	1.83E-08
PPARGC1A	brown	-0.227218865	1.93E-06	0.340379182	4.00E-13
SPR	brown	0.157567452	0.001044051	-0.247866271	1.93E-07
NACAD	brown	-0.28362985	2.13E-09	0.505075493	3.22E-29
PAN01	brown	0.220247369	4.02E-06	-0.254514814	8.76E-08
DAGLB	brown	0.358403729	1.77E-14	-0.409472278	8.17E-19
IL17RA	brown	0.214511938	7.20E-06	-0.17591174	0.000246576
CSTA	brown	0.089663709	0.063220549	-0.323592503	6.13E-12
RP11-195F1	brown	-0.144329342	0.0027008	0.267656989	1.73E-08
YARS2	brown	0.317785973	1.52E-11	-0.483606723	1.37E-26
C12orf45	brown	0.212301201	8.98E-06	-0.317713552	1.53E-11
RASSF2	brown	-0.172707657	0.000320686	0.407713267	1.19E-18
EIF1B	brown	-0.182934507	0.0001364	0.298785412	2.57E-10
SCRIB	brown	0.256794152	6.65E-08	-0.477005521	8.13E-26
GPR20	brown	-0.067835708	0.160260958	0.215398009	6.59E-06
MAP1LC3A	brown	-0.105703826	0.028402322	0.171660493	0.0003491
DLG4	brown	-0.088634999	0.066322199	0.323815922	5.92E-12
UFSP2	brown	-0.264883586	2.45E-08	0.399889174	6.09E-18
LRRC45	brown	0.403549036	2.85E-18	-0.520733974	2.95E-31
FGF2	brown	-0.430927488	7.17E-21	0.749980546	7.68E-79
NTF3	brown	-0.381471883	2.41E-16	0.327217911	3.45E-12

ELF4	brown	0.182608102	0.000140275	-0.322569101	7.21E-12
PIN4	brown	0.231736107	1.19E-06	-0.399041334	7.25E-18
ADCY5	brown	-0.482334998	1.94E-26	0.762957823	4.09E-83
MRPS18A	brown	0.122221697	0.011194051	-0.3627281	8.11E-15
CLDN5	brown	-0.364561939	5.81E-15	0.542963036	2.43E-34
PRR13	brown	0.216864839	5.68E-06	-0.351133591	6.37E-14
DMKN	brown	0.097661875	0.042959287	-0.201551256	2.55E-05
PDK2	brown	-0.173273759	0.000306239	0.315145134	2.28E-11
PPAP2B	brown	-0.433804588	3.70E-21	0.663101143	8.41E-56
PCDH10	brown	-0.153113955	0.001449572	0.377009123	5.69E-16
TNIK	brown	-0.197685837	3.66E-05	0.294833222	4.51E-10
ANXA8	brown	0.124206539	0.009934678	-0.292080085	6.65E-10
ITGA3	brown	0.131388256	0.006363632	-0.276888892	5.23E-09
VARS	brown	0.309703956	5.18E-11	-0.416111763	1.96E-19
ZBTB16	brown	-0.497325792	3.02E-28	0.734848066	3.54E-74
HSPB2	brown	-0.414111834	3.02E-19	0.70350818	1.80E-65
DERL2	brown	0.218410179	4.85E-06	-0.25837837	5.49E-08
CBLC	brown	0.213604139	7.89E-06	-0.495976458	4.42E-28
NMB	brown	0.27409424	7.55E-09	-0.357397571	2.11E-14
MRM1	brown	0.341007447	3.60E-13	-0.418479753	1.17E-19
CCND2	brown	-0.292406282	6.35E-10	0.546941662	6.46E-35
TLE3	brown	0.127528726	0.008106233	-0.204981057	1.84E-05
CLIP3	brown	-0.375664428	7.35E-16	0.787248537	6.63E-92
RGAG4	brown	-0.360879487	1.13E-14	0.567405457	5.25E-38
CLNS1A	brown	0.192204823	6.03E-05	-0.349491291	8.47E-14
PRR29	brown	-0.040686378	0.400021217	0.069308156	0.151359279
WDR74	brown	0.274738851	6.94E-09	-0.50784919	1.43E-29
CAMLG	brown	-0.137785316	0.004202801	0.232988642	1.04E-06
NHSL2	brown	-0.331287134	1.79E-12	0.646816011	2.56E-52
ABCC10	brown	0.298255556	2.77E-10	-0.326222676	4.04E-12
PIP5KL1	brown	0.155986613	0.001174188	-0.243706083	3.12E-07
SOX5	brown	-0.408064483	1.10E-18	0.662520337	1.13E-55
FAM218A	brown	-0.080966567	0.093576669	0.259041404	5.06E-08
FAM131A	brown	-0.179740924	0.000179036	0.210394748	1.09E-05
LMO3	brown	-0.424058944	3.39E-20	0.706695837	2.65E-66
TBRG4	brown	0.365523233	4.87E-15	-0.590510875	9.15E-42
AHSA1	brown	0.26672988	1.94E-08	-0.366695873	3.93E-15
SEL1L2	brown	-0.221830501	3.41E-06	0.513823665	2.41E-30
QPCTL	brown	0.287731657	1.22E-09	-0.388513688	6.08E-17
MGLL	brown	-0.361214106	1.07E-14	0.516134181	1.20E-30
ATP1B2	brown	-0.484110475	1.20E-26	0.678025705	3.42E-59
PTGIS	brown	-0.355316774	3.06E-14	0.733557164	8.54E-74
ARHGEF26	brown	-0.288278619	1.13E-09	0.432009415	5.59E-21
TELO2	brown	0.270802226	1.16E-08	-0.465969283	1.46E-24
CNIH4	brown	0.304191508	1.17E-10	-0.44379331	3.54E-22
IRF6	brown	0.161050399	0.000802891	-0.436655356	1.91E-21
ACSS3	brown	-0.149269936	0.00191102	0.302733002	1.45E-10
STAP2	brown	0.259633947	4.70E-08	-0.558126208	1.41E-36
ACOT13	brown	0.207540367	1.43E-05	-0.260336065	4.31E-08
LONRF3	brown	-0.210086178	1.12E-05	0.281765235	2.74E-09
SCARA5	brown	-0.687940632	1.47E-61	0.780455014	2.47E-89

SCARA3	brown	-0.190263955	7.18E-05	0.398629981	7.89E-18
RCAN2	brown	-0.499158277	1.79E-28	0.824534947	6.50E-108
CSDC2	brown	-0.271054187	1.12E-08	0.705610088	5.11E-66
DBI	brown	0.251214366	1.30E-07	-0.407982372	1.12E-18
SERPINB5	brown	-0.003700032	0.939019393	-0.251539511	1.25E-07
STX1A	brown	0.196597944	4.04E-05	-0.268785229	1.50E-08
GYG2	brown	-0.067672408	0.161271985	0.294009539	5.07E-10
CPSF3L	brown	0.237196153	6.51E-07	-0.428168867	1.34E-20
GSPT2	brown	-0.133828885	0.005443084	0.270394713	1.22E-08
EDNRB	brown	-0.33255301	1.46E-12	0.564997369	1.24E-37
DISP1	brown	-0.322127907	7.72E-12	0.525821892	6.08E-32
ATPIF1	brown	0.326921766	3.62E-12	-0.597833451	5.08E-43
SMPDL3A	brown	-0.162834486	0.000700388	0.20950261	1.18E-05
FAM129A	brown	-0.376181592	6.66E-16	0.740132161	9.07E-76
COPS5	brown	0.256505579	6.89E-08	-0.368380771	2.88E-15
RP11-766F1	brown	-0.242750508	3.48E-07	0.490830432	1.88E-27
PDE1A	brown	-0.466326371	1.33E-24	0.884691562	6.01E-144
S1PR1	brown	-0.325467685	4.56E-12	0.727503859	4.99E-72
SYBU	brown	-0.178156079	0.00020456	0.307861525	6.82E-11
KCNH2	brown	-0.382210575	2.09E-16	0.619557953	6.09E-47
GIPC3	brown	-0.011740038	0.808201918	0.324274776	5.51E-12
EGFL7	brown	-0.140471664	0.003512812	0.290767244	7.99E-10
IFNGR2	brown	0.24768763	1.97E-07	-0.287593906	1.24E-09
MGAT4B	brown	0.342950419	2.60E-13	-0.418673778	1.12E-19
EDA2R	brown	-0.140801496	0.003435588	0.341714259	3.20E-13
DVL1	brown	0.175137225	0.000262858	-0.375213255	8.01E-16
AUP1	brown	0.40436149	2.40E-18	-0.622251934	1.89E-47
ATP5J2	brown	0.373153558	1.18E-15	-0.601927612	9.78E-44
CCDC50	brown	-0.19755629	3.70E-05	0.507316874	1.67E-29
DTNA	brown	-0.474165503	1.73E-25	0.78920646	1.16E-92
MBNL2	brown	-0.140918225	0.003408629	0.378229809	4.51E-16
RND1	brown	-0.286637429	1.41E-09	0.227249354	1.93E-06
TFAP4	brown	0.336380148	7.79E-13	-0.463250641	2.92E-24
MAPRE2	brown	-0.263966244	2.75E-08	0.715500096	1.16E-68
BRE	brown	-0.151727131	0.001602729	0.163637565	0.000658324
FLT4	brown	-0.045745693	0.343976676	0.38516966	1.17E-16
AKT3	brown	-0.269378153	1.39E-08	0.673668814	3.50E-58
WWOX	brown	-0.133853459	0.005434459	0.243607657	3.15E-07
FBX031	brown	-0.28504941	1.75E-09	0.516591419	1.05E-30
ARNT2	brown	-0.15059866	0.001738158	0.2873404	1.28E-09
OPN1SW	brown	-0.179669081	0.000180125	0.532390952	7.61E-33
PLCB3	brown	0.322484449	7.30E-12	-0.53556768	2.74E-33
SELENBP1	brown	-0.215615331	6.44E-06	0.181990186	0.000147895
CD58	brown	0.080526427	0.095379261	-0.276744891	5.33E-09
LYNX1	brown	-0.231749727	1.19E-06	0.20282733	2.26E-05
TMTC1	brown	-0.286981915	1.35E-09	0.54636597	7.83E-35
INMT-FAM18	brown	-0.565532524	1.03E-37	0.622052694	2.06E-47
MOV10	brown	0.332629979	1.44E-12	-0.427993848	1.40E-20
RRS1	brown	0.169667709	0.00040976	-0.350193477	7.50E-14
SLC22A18	brown	0.129215066	0.007298307	-0.329763024	2.29E-12
IER2	brown	-0.227290006	1.92E-06	0.06029199	0.212127254

C2CD4D	brown	0.104651467	0.030026314	-0.18576058	0.000106811
CIA01	brown	0.269173019	1.42E-08	-0.355890557	2.76E-14
MBD2	brown	0.105600415	0.028558492	-0.267562864	1.75E-08
SEMA4C	brown	-0.101881493	0.034685742	0.183783152	0.000126791
LGI4	brown	-0.456139157	1.75E-23	0.564276999	1.61E-37
THBS4	brown	-0.051888917	0.283009724	0.555762581	3.19E-36
TSHB	brown	-0.46701255	1.12E-24	0.656160701	2.73E-54
LXN	brown	-0.04262059	0.377978331	0.273000561	8.70E-09
COX4I2	brown	-0.141958202	0.003176782	0.191635342	6.35E-05
MSANTD3-TM	brown	-0.186043578	0.000104206	0.424169201	3.31E-20
TCEAL4	brown	-0.206216122	1.63E-05	0.24538355	2.57E-07
PBXIP1	brown	-0.27857124	4.19E-09	0.361011949	1.11E-14
OR5K2	brown	-0.240637983	4.42E-07	0.457926454	1.12E-23
ABRACL	brown	0.329118095	2.54E-12	-0.506813829	1.94E-29
STK40	brown	-0.343812051	2.24E-13	0.424643292	2.97E-20
MFSD10	brown	0.294628071	4.65E-10	-0.517692503	7.48E-31
GPR135	brown	-0.286298783	1.48E-09	0.652990558	1.30E-53
PLEK2	brown	0.201641736	2.53E-05	-0.459714476	7.15E-24
CIB1	brown	0.177087833	0.000223645	-0.450257696	7.45E-23
PABPC5	brown	-0.335329944	9.26E-13	0.612924005	1.03E-45
EEF1E1	brown	0.328190922	2.95E-12	-0.427108056	1.71E-20
ZDBF2	brown	-0.201374351	2.59E-05	0.361258542	1.06E-14
GDF10	brown	-0.515596985	1.41E-30	0.64626645	3.33E-52
SNTA1	brown	-0.205309382	1.78E-05	0.268065997	1.64E-08
MS4A2	brown	-0.403631975	2.80E-18	0.706346301	3.27E-66
ARL10	brown	-0.084967332	0.078412008	0.351854271	5.62E-14
RHOJ	brown	-0.376406847	6.38E-16	0.787866276	3.83E-92
CACTIN	brown	0.24298621	3.38E-07	-0.360706613	1.17E-14
AXIN1	brown	0.162771045	0.000703815	-0.314821196	2.39E-11
PA2G4	brown	0.241384347	4.06E-07	-0.501305405	9.64E-29
PIAS4	brown	0.255576793	7.71E-08	-0.379396141	3.60E-16
VAMP2	brown	-0.286549853	1.43E-09	0.389371819	5.12E-17
OSBPL1A	brown	-0.220276324	4.00E-06	0.40081941	5.02E-18
ADIPOR1	brown	0.167420899	0.000489852	-0.250785366	1.37E-07
TMUB1	brown	0.377829896	4.87E-16	-0.548041638	4.46E-35
TRIM27	brown	0.276526055	5.49E-09	-0.3621786	8.96E-15
CSRP1	brown	-0.459901981	6.82E-24	0.76872451	4.19E-85
PCDHGA9	brown	-0.161530818	0.000774004	0.460680402	5.61E-24
IL23A	brown	0.105484874	0.028733852	-0.186397315	0.000101035
G6PC3	brown	0.23799761	5.95E-07	-0.340616774	3.85E-13
ADPRM	brown	-0.158732416	0.000956808	0.274183683	7.46E-09
HM13	brown	0.359772561	1.38E-14	-0.423358186	3.96E-20
COA4	brown	0.269691224	1.33E-08	-0.4746122	1.53E-25
RAP1A	brown	-0.360952893	1.12E-14	0.622523921	1.68E-47
LMO4	brown	-0.066119038	0.171130442	0.166763617	0.000515898
SLC24A3	brown	-0.381025851	2.63E-16	0.562152083	3.42E-37
RANBP3L	brown	-0.507495904	1.59E-29	0.82437517	7.75E-108
CTTN	brown	0.129013357	0.007390998	-0.289203821	9.92E-10
C14orf80	brown	0.250922857	1.34E-07	-0.46157788	4.47E-24
LPAR5	brown	0.201217918	2.63E-05	-0.266948781	1.89E-08
LRRC2	brown	-0.597743363	5.27E-43	0.833418957	2.69E-112

DGKG	brown	-0.347945864	1.11E-13	0.501838571	8.26E-29
PRAC2	brown	-0.201550963	2.55E-05	0.1864486	0.000100583
SLC19A1	brown	0.353146935	4.48E-14	-0.36838142	2.88E-15
CPNE6	brown	-0.422298228	5.02E-20	0.523154704	1.40E-31
MPHOSPH6	brown	0.15989608	0.000876424	-0.314575354	2.48E-11
FBXL6	brown	0.441275726	6.45E-22	-0.574141615	4.52E-39
BMPER	brown	-0.179859551	0.000177251	0.280134693	3.40E-09
RHOQ	brown	-0.169565472	0.000413123	0.397141052	1.07E-17
ARHGEF15	brown	-0.245261482	2.61E-07	0.539398939	7.88E-34
RASGEF1C	brown	-0.209068965	1.24E-05	0.229327128	1.54E-06
BAX	brown	0.370290117	2.02E-15	-0.425234626	2.60E-20
TLDC1	brown	0.1639959	0.000640322	-0.322498322	7.29E-12
ZFP2	brown	-0.279844726	3.54E-09	0.457553246	1.23E-23
GSS	brown	0.349769533	8.08E-14	-0.592466357	4.26E-42
STK32B	brown	-0.306914315	7.85E-11	0.662825731	9.67E-56
MCRS1	brown	0.279105892	3.90E-09	-0.414744987	2.63E-19
TFAP2A	brown	0.190460305	7.06E-05	-0.326778513	3.70E-12
KLHL41	brown	-0.580561826	4.14E-40	0.821497382	1.80E-106
NME1	brown	0.461708922	4.32E-24	-0.631793122	2.74E-49
CAPN6	brown	-0.110244297	0.022231268	0.303434039	1.31E-10
FIGLA	brown	-0.172439448	0.000327751	0.173359557	0.000304103
IER5L	brown	0.366173825	4.32E-15	-0.354671152	3.43E-14
TRPA1	brown	-0.247340858	2.05E-07	0.221370438	3.57E-06
CSNK1A1L	brown	-0.11849949	0.01394124	0.264888233	2.45E-08
KIT	brown	-0.210557078	1.07E-05	0.322543482	7.23E-12
ATP6V1G1	brown	0.16586668	0.00055352	-0.288868802	1.04E-09
SEMA3E	brown	-0.393736922	2.14E-17	0.480684627	3.03E-26
CAPZA2	brown	-0.248229124	1.85E-07	0.501784986	8.39E-29
EPM2A	brown	-0.479444626	4.24E-26	0.740222532	8.51E-76
GRIN2D	brown	0.23607211	7.38E-07	-0.256563665	6.84E-08
SHE	brown	-0.336004286	8.28E-13	0.729938618	9.85E-73
PCDHB4	brown	-0.178615616	0.000196829	0.301179347	1.82E-10
AKAP6	brown	-0.481675125	2.32E-26	0.835556845	2.17E-113
KRT10	brown	0.12443134	0.009800288	-0.309008983	5.75E-11
MANF	brown	0.348119726	1.07E-13	-0.360433592	1.23E-14
TPSG1	brown	-0.51466033	1.87E-30	0.76724714	1.37E-84
PCSK1	brown	-0.042526283	0.379035481	0.403275095	3.02E-18
CAMK1	brown	-0.201701374	2.51E-05	0.501866401	8.19E-29
SEMA6D	brown	-0.157361022	0.001060255	0.413700699	3.30E-19
HECW2	brown	0.04370688	0.365932276	0.277091481	5.10E-09
KCNQ4	brown	-0.345142248	1.79E-13	0.594657929	1.80E-42
VWF	brown	-0.203058486	2.21E-05	0.562117605	3.46E-37
SDF2	brown	0.205754897	1.71E-05	-0.308607896	6.11E-11
RASL11A	brown	-0.345780787	1.60E-13	0.519714441	4.03E-31
VSTM4	brown	-0.468656372	7.29E-25	0.822375668	6.93E-107
PALM	brown	-0.245380249	2.57E-07	0.476552797	9.17E-26
EBP	brown	0.35987745	1.36E-14	-0.58066829	3.98E-40
ARMCX1	brown	-0.283000031	2.32E-09	0.527036794	4.15E-32
TREX2	brown	0.112713563	0.019390916	-0.21055575	1.07E-05
BDKRB1	brown	-0.4015229	4.34E-18	0.449679231	8.57E-23
SYMPK	brown	0.308458061	6.24E-11	-0.385833141	1.03E-16

TLN2	brown	-0.197281142	3.80E-05	0.404594786	2.29E-18
LYPLA2	brown	0.370270229	2.03E-15	-0.604956434	2.84E-44
GTPBP3	brown	0.389059365	5.45E-17	-0.508322987	1.24E-29
FAM167B	brown	0.05273374	0.27523489	0.140715516	0.003455569
FGF13	brown	-0.292707228	6.09E-10	0.458951287	8.67E-24
PKP3	brown	0.274418597	7.24E-09	-0.570774031	1.55E-38
ARHGEF5	brown	0.158644446	0.000963154	-0.323459057	6.26E-12
PERP	brown	0.165693626	0.000561065	-0.428709954	1.19E-20
MEOX2	brown	-0.293924362	5.13E-10	0.657198995	1.63E-54
EIF4EBP1	brown	0.316707414	1.79E-11	-0.383566612	1.61E-16
ZFHX4	brown	-0.280102357	3.42E-09	0.558873022	1.08E-36
KHDRBS3	brown	-0.099275735	0.039617139	0.287594842	1.24E-09
LIMS2	brown	-0.466086553	1.42E-24	0.806400851	1.08E-99
SAMD4A	brown	-0.365150218	5.22E-15	0.641243854	3.56E-51
LHX4-AS1	brown	0.268476733	1.56E-08	-0.301301293	1.79E-10
CRYAB	brown	-0.404775986	2.20E-18	0.707728772	1.42E-66
DCLK2	brown	-0.184444472	0.000119748	0.545679298	9.86E-35
SOBP	brown	-0.496941811	3.36E-28	0.828822385	5.36E-110
MAPKAPK3	brown	0.142856755	0.002988099	-0.237512629	6.28E-07
VIPR2	brown	-0.59741603	6.01E-43	0.620778414	3.59E-47
COLEC11	brown	-0.217682555	5.22E-06	0.26383605	2.80E-08
GSTK1	brown	0.192810843	5.71E-05	-0.294186767	4.95E-10
PYGB	brown	-0.237098847	6.58E-07	0.388573658	6.00E-17
RGS22	brown	-0.550705195	1.81E-35	0.743127934	1.09E-76
SYCE3	brown	0.137063909	0.004407875	-0.225288131	2.37E-06
BVES	brown	-0.338286523	5.68E-13	0.615643739	3.27E-46
HSPB6	brown	-0.507522907	1.57E-29	0.816258541	4.76E-104
TRMT2A	brown	0.333379855	1.27E-12	-0.480986709	2.80E-26
SCAMP4	brown	0.296333023	3.65E-10	-0.384144735	1.44E-16
NOS3	brown	-0.143493212	0.00286068	0.483380743	1.46E-26
ABL1	brown	-0.346359043	1.45E-13	0.685104536	7.16E-61
NFS1	brown	0.280090024	3.42E-09	-0.369873672	2.18E-15
DTD1	brown	0.247538461	2.00E-07	-0.357222664	2.18E-14
MEN1	brown	0.487881186	4.26E-27	-0.603015189	6.28E-44
MITD1	brown	0.282000228	2.65E-09	-0.350904549	6.63E-14
SRR	brown	-0.094881511	0.049273723	0.265194094	2.36E-08
ZSWIM4	brown	0.239726327	4.90E-07	-0.193692709	5.27E-05
DCP1B	brown	-0.109335753	0.023363585	0.249338735	1.62E-07
MAGOH	brown	0.306277694	8.63E-11	-0.524679372	8.69E-32
PYGM	brown	-0.607446724	1.02E-44	0.864831354	3.74E-130
HES4	brown	0.171551014	0.000352202	-0.355460958	2.98E-14
FAM32A	brown	0.204269023	1.97E-05	-0.295442053	4.14E-10
ARTN	brown	0.14261262	0.003038329	-0.271713985	1.03E-08
CD93	brown	-0.213571284	7.92E-06	0.634132978	9.48E-50
DIRC3	brown	-0.235299769	8.03E-07	0.452662464	4.13E-23
DPY30	brown	0.333254003	1.30E-12	-0.493299696	9.42E-28
KLHL30	brown	-0.299002722	2.49E-10	0.460436312	5.96E-24
NEDD9	brown	-0.155695895	0.001199688	0.2438665	3.06E-07
TMEM136	brown	-0.130856485	0.006581843	0.371075887	1.74E-15
BAI3	brown	-0.447857424	1.33E-22	0.601776809	1.04E-43
PEAK1	brown	-0.214003336	7.58E-06	0.662067884	1.42E-55

INMT	brown	-0.389512583	4.98E-17	0.679678106	1.40E-59
IL3RA	brown	-0.171034422	0.000367191	0.422478597	4.82E-20
MRPS15	brown	0.35065942	6.92E-14	-0.540331994	5.80E-34
PER1	brown	-0.414926165	2.53E-19	0.551996647	1.17E-35
LCN10	brown	-0.30432917	1.15E-10	0.501189613	9.96E-29
LAMB3	brown	0.066268904	0.170160158	-0.274535778	7.13E-09
B4GAT1	brown	-0.126858294	0.008448991	0.346852648	1.34E-13
EXOSC5	brown	0.275192753	6.54E-09	-0.514422841	2.01E-30
NAALAD2	brown	-0.184463433	0.000119552	0.32291458	6.82E-12
DIRAS3	brown	-0.270504344	1.20E-08	0.578374884	9.40E-40
HRSP12	brown	0.170490638	0.000383609	-0.262151034	3.45E-08
KBTBD13	brown	-0.268083997	1.64E-08	0.597206619	6.53E-43
DUS2	brown	0.235856626	7.55E-07	-0.407573417	1.22E-18
ADAMTSL3	brown	-0.620247794	4.52E-47	0.841666234	1.33E-116
SHF	brown	-0.177355874	0.000218705	0.239365501	5.10E-07
BLOC1S2	brown	0.270631158	1.18E-08	-0.349558872	8.38E-14
TLN1	brown	-0.334023094	1.15E-12	0.743410515	8.92E-77
ANGPTL7	brown	-0.486490399	6.25E-27	0.792645959	5.14E-94
P2RX1	brown	-0.495141614	5.60E-28	0.828569346	7.14E-110
SDPR	brown	-0.526416615	5.05E-32	0.835081214	3.82E-113
CYYR1	brown	-0.310071394	4.91E-11	0.607608968	9.53E-45
GNB1L	brown	0.175241574	0.000260607	-0.27093047	1.14E-08
LSM11	brown	-0.278153725	4.43E-09	0.677100536	5.63E-59
TMEM54	brown	0.216016875	6.19E-06	-0.516694971	1.01E-30
LAD1	brown	0.240205391	4.64E-07	-0.524077823	1.05E-31
CA9	brown	0.196975594	3.90E-05	-0.359947977	1.34E-14
MRPL15	brown	0.25179479	1.21E-07	-0.380093921	3.15E-16
RCVRN	brown	-0.350421975	7.21E-14	0.619752563	5.60E-47
AGRN	brown	0.389653364	4.84E-17	-0.469414462	5.99E-25
FXYP1	brown	-0.584683507	8.67E-41	0.651545955	2.62E-53
PPP2R5A	brown	-0.283519065	2.16E-09	0.293017166	5.83E-10
GALT	brown	0.120527473	0.012378732	-0.213053347	8.34E-06
TSFM	brown	0.252669195	1.09E-07	-0.416275823	1.89E-19
TRABD	brown	0.26193026	3.54E-08	-0.531783066	9.24E-33
ZDHHC16	brown	0.402242091	3.74E-18	-0.486468126	6.29E-27
ZFPM2	brown	-0.403992847	2.60E-18	0.79275311	4.66E-94
COPZ1	brown	0.36892753	2.60E-15	-0.448519307	1.14E-22
PRRG2	brown	0.253772483	9.58E-08	-0.515633614	1.40E-30
PTPN6	brown	0.283966693	2.03E-09	-0.409518112	8.09E-19
PTH1R	brown	-0.459316936	7.91E-24	0.68984835	5.04E-62
TRMT1	brown	0.255439834	7.84E-08	-0.461215853	4.90E-24
KLF2	brown	-0.473705597	1.95E-25	0.670622787	1.74E-57
PCDHB7	brown	-0.111123247	0.021181404	0.323018765	6.71E-12
KIAA1462	brown	-0.24763026	1.98E-07	0.67407064	2.83E-58
TRUB2	brown	0.266230963	2.07E-08	-0.440168964	8.37E-22
WIPF3	brown	-0.12815062	0.007799437	0.34313516	2.52E-13
FLNC	brown	-0.453770381	3.15E-23	0.822173039	8.63E-107
C1QBP	brown	0.127437123	0.008152322	-0.291891763	6.83E-10
CUX1	brown	-0.134106239	0.005346444	0.333431229	1.26E-12
ANKZF1	brown	0.237509755	6.29E-07	-0.419738737	8.84E-20
ACOT1	brown	-0.126876793	0.008439363	0.348324833	1.04E-13

IRF3	brown	0.329880476	2.25E-12	-0.525744417	6.23E-32
ICT1	brown	0.333530599	1.24E-12	-0.529297813	2.04E-32
SMUG1	brown	0.402490772	3.55E-18	-0.554120102	5.63E-36
GATA5	brown	-0.467826139	9.04E-25	0.798908517	1.52E-96
SLITRK3	brown	-0.205267865	1.79E-05	0.455460426	2.07E-23
C10orf107	brown	-0.25658097	6.83E-08	0.475353174	1.26E-25
PLCB4	brown	-0.439248929	1.04E-21	0.611261048	2.08E-45
VTN	brown	-0.070139682	0.146500933	0.3576138	2.03E-14
ANGPTL5	brown	-0.246186609	2.34E-07	0.25968974	4.67E-08
ANP32A	brown	0.274865495	6.83E-09	-0.391250527	3.52E-17
CXorf40B	brown	0.154628662	0.001297732	-0.263026235	3.09E-08
TACR2	brown	-0.459885271	6.85E-24	0.77635468	7.95E-88
ZNF575	brown	-0.044229064	0.360227613	0.255487392	7.79E-08
ITGA7	brown	-0.367358317	3.48E-15	0.801035859	2.00E-97
IGSF9	brown	0.259003309	5.08E-08	-0.404598775	2.29E-18
FGF6	brown	-0.41770887	1.38E-19	0.557140673	1.98E-36
CDH3	brown	0.208764132	1.27E-05	-0.299284483	2.39E-10
ZDHH15	brown	-0.216434189	5.93E-06	0.379702015	3.40E-16
ELOVL1	brown	0.226749556	2.03E-06	-0.41752267	1.44E-19
PRKD2	brown	0.293071338	5.79E-10	-0.488227613	3.87E-27
GPR39	brown	0.116528934	0.015623108	-0.221997392	3.35E-06
PI16	brown	-0.670515214	1.84E-57	0.765680955	4.78E-84
HOXA13	brown	-0.168545665	0.000448096	0.234701698	8.58E-07
MASP1	brown	-0.426217818	2.09E-20	0.617994634	1.19E-46
EPS8L2	brown	0.2306899	1.33E-06	-0.489120408	3.02E-27
PRMT1	brown	0.241569919	3.98E-07	-0.468754167	7.11E-25
COL4A4	brown	-0.260764974	4.09E-08	0.551107002	1.58E-35
S1PR5	brown	0.218197397	4.96E-06	-0.355176803	3.13E-14
TMEM60	brown	0.391238945	3.53E-17	-0.40263391	3.45E-18
TYRP1	brown	-0.017994706	0.709825755	0.372733924	1.28E-15
CCDC86	brown	0.237433666	6.34E-07	-0.382703013	1.90E-16
ARRB1	brown	-0.143338725	0.002891146	0.303824952	1.24E-10
ADRM1	brown	0.297288083	3.18E-10	-0.536474153	2.04E-33
MAS1L	brown	-0.410952946	5.96E-19	0.737454054	5.87E-75
PTRHD1	brown	0.213968865	7.61E-06	-0.462845082	3.24E-24
MITF	brown	-0.334634245	1.04E-12	0.687307826	2.10E-61
PPP1R35	brown	0.3442407	2.09E-13	-0.532476921	7.40E-33
TBC1D10B	brown	0.335572859	8.90E-13	-0.406843029	1.43E-18
C1orf53	brown	0.295956799	3.85E-10	-0.407716674	1.19E-18
ITIH3	brown	-0.098945141	0.040283257	0.357194413	2.19E-14
RORA	brown	-0.253567003	9.81E-08	0.545971457	8.94E-35
PCDHB3	brown	-0.037199636	0.441650548	0.217025458	5.59E-06
CLCN2	brown	0.347048747	1.29E-13	-0.393290631	2.34E-17
ALPK3	brown	-0.164129123	0.000633745	0.427145285	1.69E-20
MPV17L2	brown	0.261342712	3.81E-08	-0.354099619	3.79E-14
SMOC2	brown	-0.393144022	2.41E-17	0.757753023	2.28E-81
AP1S1	brown	0.369819359	2.20E-15	-0.54480656	1.32E-34
PCDH9	brown	-0.241766303	3.89E-07	0.4206414	7.24E-20
UNC119	brown	0.325421663	4.59E-12	-0.422284397	5.03E-20
HDAC8	brown	0.256654508	6.77E-08	-0.320583287	9.83E-12
PCK2	brown	0.307216399	7.51E-11	-0.392132334	2.95E-17

EFNA3	brown	0.231248898	1.25E-06	-0.337443249	6.53E-13
SPOP	brown	-0.274510578	7.15E-09	0.514681917	1.86E-30
MLIP	brown	-0.247961643	1.90E-07	0.342179636	2.96E-13
SLC25A23	brown	-0.329897462	2.24E-12	0.449121018	9.82E-23
FAM189A2	brown	-0.456593856	1.56E-23	0.532261915	7.93E-33
TUFM	brown	0.234766589	8.52E-07	-0.464794603	1.97E-24
CHRM2	brown	-0.554731657	4.56E-36	0.847510922	8.32E-120
LNP1	brown	-0.161397072	0.000781948	0.334703798	1.03E-12
C4orf3	brown	-0.212569203	8.75E-06	0.201423139	2.58E-05
EEPDI	brown	-0.21306458	8.33E-06	0.399570409	6.50E-18
ETV4	brown	0.300379117	2.04E-10	-0.428184185	1.34E-20
UBAC2	brown	0.316254328	1.92E-11	-0.323194303	6.53E-12
PRELP	brown	-0.439977309	8.76E-22	0.790016286	5.58E-93
PVRL1	brown	0.167168542	0.000499704	-0.476462178	9.40E-26
CD34	brown	-0.412863911	3.95E-19	0.706432111	3.11E-66
TMEM189	brown	0.244994811	2.69E-07	-0.442769666	4.52E-22
PRUNE2	brown	-0.444127172	3.27E-22	0.880907938	3.93E-141
CUTC	brown	-0.26249302	3.30E-08	0.301343724	1.78E-10
SCAF1	brown	0.259623541	4.71E-08	-0.435471094	2.51E-21
DTX2	brown	0.221531645	3.52E-06	-0.431260653	6.64E-21
C6orf136	brown	0.312993872	3.16E-11	-0.576744242	1.73E-39
BAIAP2L1	brown	0.294132694	4.98E-10	-0.549975688	2.32E-35
CDK7	brown	0.266933996	1.89E-08	-0.408220715	1.07E-18
ZNF454	brown	-0.189361778	7.78E-05	0.438291964	1.30E-21
DDA1	brown	0.201247183	2.62E-05	-0.442872635	4.41E-22
FREM3	brown	-0.062797414	0.193708124	0.184754018	0.000116579
MBOAT7	brown	0.292053947	6.67E-10	-0.459189502	8.16E-24
SHISA6	brown	-0.387065172	8.09E-17	0.420858587	6.90E-20
CPTP	brown	0.307134025	7.60E-11	-0.55417445	5.52E-36
FOLH1	brown	0.070028292	0.147144765	0.054347109	0.260794012
CXorf36	brown	-0.275339162	6.42E-09	0.635249471	5.70E-50
EDEM2	brown	0.357818691	1.96E-14	-0.372022466	1.46E-15
ENPP6	brown	-0.419682165	8.95E-20	0.387601956	7.28E-17
DNAJC18	brown	-0.339287124	4.80E-13	0.618184756	1.10E-46
ENPP2	brown	-0.219861376	4.18E-06	0.491143208	1.72E-27
PPP1R12C	brown	-0.211577424	9.65E-06	0.300156055	2.11E-10
FAM47E-STB	brown	-0.18590245	0.000105498	0.258430236	5.45E-08
PHYHIP	brown	-0.451664542	5.28E-23	0.590566308	8.96E-42
MAP1B	brown	-0.39419296	1.95E-17	0.820149556	7.68E-106
TMEM79	brown	0.152802227	0.001482777	-0.403939902	2.63E-18
PITX2	brown	-0.269612551	1.35E-08	0.47802955	6.19E-26
PROM2	brown	0.145630861	0.002468064	-0.399124943	7.12E-18
EPHA2	brown	-0.041548506	0.390102553	-0.208026641	1.37E-05
KCNQ5	brown	-0.219753126	4.23E-06	0.360958517	1.12E-14
S100A14	brown	0.17502832	0.000265226	-0.372288539	1.39E-15
ZNF185	brown	0.062700063	0.194401227	-0.231023585	1.28E-06
PCDH19	brown	-0.136704941	0.004513249	0.267743184	1.71E-08
DENND2A	brown	-0.359121743	1.55E-14	0.589916434	1.15E-41
SNRPA1	brown	0.402166803	3.80E-18	-0.590584984	8.89E-42
UCKL1	brown	0.314682	2.44E-11	-0.467828755	9.03E-25
DDX49	brown	0.324464505	5.34E-12	-0.478385316	5.63E-26

GNG5	brown	0.369488283	2.34E-15	-0.50920934	9.56E-30
CHCHD6	brown	0.225553958	2.31E-06	-0.348918288	9.36E-14
NAT9	brown	0.378357685	4.40E-16	-0.465634112	1.59E-24
REM1	brown	-0.20713844	1.49E-05	0.472632924	2.58E-25
CES1	brown	-0.295534851	4.09E-10	0.458468658	9.78E-24
GRIK5	brown	-0.297537304	3.07E-10	0.544455767	1.48E-34
IRX3	brown	0.058910802	0.222804927	-0.196150267	4.21E-05
PGR	brown	-0.572606811	7.94E-39	0.551320453	1.47E-35
HBA1	brown	-0.08992059	0.062464957	0.16453642	0.000614027
FGF7	brown	-0.367480023	3.40E-15	0.771490349	4.45E-86
KCNK3	brown	-0.360252223	1.27E-14	0.619559197	6.09E-47
RGN	brown	-0.38091619	2.69E-16	0.628488837	1.21E-48
DUSP1	brown	-0.417751224	1.37E-19	0.510528929	6.46E-30
TMEM147	brown	0.287255907	1.30E-09	-0.366736029	3.90E-15
ZNF628	brown	0.185306831	0.000111115	-0.367312164	3.51E-15
SLC02A1	brown	-0.125335819	0.009275746	0.399141814	7.10E-18
NIPSNAP3B	brown	-0.210597029	1.06E-05	0.440419708	7.89E-22
TRPV4	brown	0.107223011	0.026191213	-0.237670909	6.17E-07
TFAP2C	brown	0.207705058	1.41E-05	-0.333944679	1.16E-12
FAM180B	brown	-0.681727948	4.59E-60	0.732412117	1.86E-73
PIDD1	brown	0.26296036	3.12E-08	-0.366074996	4.40E-15
PARM1	brown	-0.295098676	4.35E-10	0.494707038	6.34E-28
ACOT2	brown	-0.07461993	0.122345714	0.326157724	4.09E-12
LAMC3	brown	-0.422804687	4.48E-20	0.470936707	4.03E-25
TP53I3	brown	0.171937451	0.000341365	-0.322320048	7.49E-12
OPCML	brown	-0.1497544	0.001846249	0.253553842	9.83E-08
ACVRL1	brown	-0.220252422	4.01E-06	0.543971098	1.74E-34
BMX	brown	-0.262371535	3.35E-08	0.391642032	3.26E-17
CHTF18	brown	0.389363384	5.13E-17	-0.533237319	5.80E-33
SLC25A22	brown	0.327145128	3.49E-12	-0.453848891	3.09E-23
PPP1R1A	brown	-0.35697796	2.28E-14	0.626930213	2.42E-48
ABCB1	brown	-0.381797453	2.27E-16	0.519076245	4.90E-31
C19orf25	brown	0.295652389	4.02E-10	-0.351091574	6.42E-14
CLPTM1	brown	0.290858867	7.89E-10	-0.411531267	5.26E-19
PKNOX2	brown	-0.258977342	5.10E-08	0.360991425	1.11E-14
KCNK1	brown	0.086262572	0.073953014	-0.264324677	2.63E-08
ILK	brown	-0.363820576	6.65E-15	0.729902651	1.01E-72
KANK2	brown	-0.404672237	2.25E-18	0.807447585	3.84E-100
IGSF3	brown	0.184400905	0.000120201	-0.333837412	1.18E-12
SLC43A1	brown	-0.201327448	2.60E-05	0.453054903	3.75E-23
WDR24	brown	0.208834233	1.26E-05	-0.288365165	1.11E-09
RCAN1	brown	-0.358701407	1.68E-14	0.604872867	2.94E-44
MSRB3	brown	-0.390827376	3.83E-17	0.844083319	6.53E-118
SLC8B1	brown	0.238605149	5.56E-07	-0.266334572	2.04E-08
TMEM102	brown	0.263888115	2.78E-08	-0.560231011	6.73E-37
GNB5	brown	-0.218609241	4.75E-06	0.259142356	5.00E-08
NPM3	brown	0.234148836	9.12E-07	-0.375535371	7.53E-16
ELMO3	brown	0.216324846	6.00E-06	-0.532352778	7.70E-33
ARHGAP39	brown	0.394322753	1.90E-17	-0.423111599	4.19E-20
TMEM35	brown	-0.372992479	1.22E-15	0.583827847	1.20E-40
SNPH	brown	-0.132461787	0.005942775	0.328933326	2.62E-12

COA3	brown	0.20810585	1.36E-05	-0.483581502	1.38E-26
KLHL17	brown	0.277981418	4.53E-09	-0.395000083	1.65E-17
ZNF34	brown	-0.124956731	0.009492476	0.242191596	3.71E-07
DGUOK	brown	0.326986757	3.58E-12	-0.531553408	9.94E-33
GLRB	brown	-0.071637047	0.138053344	0.299895726	2.19E-10
ADRA1D	brown	-0.443444225	3.85E-22	0.504845475	3.45E-29
GPR56	brown	0.23212717	1.14E-06	-0.406936132	1.40E-18
SVIL	brown	-0.331116268	1.84E-12	0.656411814	2.41E-54
SMARCD3	brown	-0.213289889	8.14E-06	0.382158878	2.11E-16
GPD1	brown	-0.095964757	0.046726925	0.320828399	9.46E-12
KDR	brown	-0.120127637	0.012673959	0.451973099	4.89E-23
EFNA1	brown	0.266464575	2.01E-08	-0.321057442	9.13E-12
INHBB	brown	-0.214910109	6.92E-06	0.37890959	3.96E-16
LSM4	brown	0.399985571	5.97E-18	-0.615127706	4.07E-46
UBALD2	brown	0.360309108	1.26E-14	-0.571198667	1.33E-38
CKMT2	brown	-0.389199391	5.30E-17	0.700659565	9.79E-65
MRPL14	brown	0.315092712	2.29E-11	-0.531467255	1.02E-32
CCL16	brown	-0.148298226	0.002047244	0.34624012	1.48E-13
THSD7A	brown	-0.154920086	0.001270253	0.478572377	5.35E-26
CFAP58	brown	-0.081117977	0.092962905	0.295905393	3.88E-10
RAMP1	brown	-0.293993867	5.08E-10	0.58377211	1.23E-40
PSD	brown	-0.467167614	1.07E-24	0.802758793	3.81E-98
KCND3	brown	-0.469744404	5.50E-25	0.608574744	6.39E-45
NOV	brown	-0.085125457	0.077856232	0.326225828	4.04E-12
FILIP1	brown	-0.542401914	2.93E-34	0.900557889	6.19E-157
PYGL	brown	0.121425729	0.011737523	-0.232381368	1.11E-06
LIMK2	brown	0.225933142	2.22E-06	-0.24031918	4.58E-07
DNAJC7	brown	0.259651845	4.69E-08	-0.434652094	3.04E-21
RGCC	brown	-0.247608928	1.98E-07	0.4009538	4.89E-18
C11orf95	brown	-0.187385877	9.26E-05	0.504430984	3.89E-29
KLHL40	brown	-0.370089979	2.10E-15	0.259776708	4.62E-08
TERF2IP	brown	-0.091483711	0.058026054	0.172390873	0.000329045
PNMA2	brown	-0.244025764	3.00E-07	0.511848585	4.36E-30
PLAC9	brown	-0.492935673	1.04E-27	0.609153509	5.02E-45
THOC6	brown	0.268730481	1.51E-08	-0.406061445	1.68E-18
KIF13A	brown	-0.227708985	1.83E-06	0.372918801	1.23E-15
SDC1	brown	0.236903328	6.72E-07	-0.532660596	6.98E-33
RAET1G	brown	0.025136291	0.603201513	-0.29060865	8.16E-10
FAM110A	brown	0.395417319	1.52E-17	-0.634878787	6.75E-50
RADIL	brown	-0.20863983	1.29E-05	0.379233892	3.72E-16
RNF113A	brown	0.204731776	1.88E-05	-0.396368753	1.25E-17
CTTNBP2	brown	-0.162922871	0.000695639	0.309109601	5.66E-11
ZEB1	brown	-0.392208505	2.91E-17	0.886340767	3.31E-145
EGFLAM	brown	-0.007750868	0.872676293	0.328884503	2.64E-12
CAMK2A	brown	-0.521986264	2.00E-31	0.781843158	7.50E-90
GRIK3	brown	-0.310256592	4.77E-11	0.381825687	2.25E-16
TMX2-CTNND	brown	-0.128839034	0.007471951	0.268406757	1.57E-08
CTAGE9	brown	0.098117308	0.041992906	-0.208896013	1.26E-05
STX10	brown	0.306720865	8.08E-11	-0.479858403	3.79E-26
CNKS3	brown	-0.309089633	5.68E-11	0.375634176	7.39E-16
COL4A3	brown	-0.114248604	0.017789137	0.298437377	2.70E-10

CNN1	brown	-0.426697307	1.87E-20	0.754401564	2.88E-80
LMX1A	brown	-0.344666103	1.94E-13	0.326320289	3.98E-12
ZNF788	brown	-0.079947163	0.097793739	0.341483911	3.32E-13
PRPH	brown	-0.203567352	2.10E-05	0.387363618	7.63E-17
C3orf18	brown	-0.277075821	5.11E-09	0.565791458	9.37E-38
SYNE1	brown	-0.487667097	4.52E-27	0.827573066	2.20E-109
PTGS1	brown	-0.415332212	2.32E-19	0.721556569	2.44E-70
NUDT19	brown	0.237309111	6.43E-07	-0.286357764	1.47E-09
PDGFD	brown	-0.316142936	1.95E-11	0.540000374	6.47E-34
FOXD3	brown	-0.321683293	8.28E-12	0.485710122	7.74E-27
C19orf33	brown	0.189453945	7.72E-05	-0.461477791	4.58E-24
RALY	brown	0.320999914	9.21E-12	-0.448924423	1.03E-22
SLC7A2	brown	-0.116072037	0.016037579	0.284457854	1.90E-09
CACNB4	brown	-0.314420795	2.54E-11	0.548456836	3.88E-35
GRASP	brown	-0.355241683	3.10E-14	0.561865012	3.78E-37
TUSC5	brown	-0.189341674	7.79E-05	0.410957401	5.95E-19
ADAMTS1	brown	-0.481280122	2.58E-26	0.654520291	6.12E-54
SNTB1	brown	-0.078611162	0.103548062	0.376572415	6.19E-16
CGNL1	brown	-0.49765155	2.75E-28	0.757255572	3.33E-81
CALCRL	brown	-0.076010222	0.115517273	0.539500409	7.62E-34
NFIC	brown	-0.302891346	1.42E-10	0.557947286	1.50E-36
KIF26A	brown	-0.234209706	9.06E-07	0.432163629	5.40E-21
TIGD5	brown	0.241156073	4.17E-07	-0.360639503	1.18E-14
SPINT2	brown	0.236352934	7.15E-07	-0.422544999	4.75E-20
TMEM9B	brown	0.121065894	0.011990775	-0.256847975	6.61E-08
STYXL1	brown	0.309678595	5.20E-11	-0.462798951	3.28E-24
GREM2	brown	-0.500303123	1.29E-28	0.584007718	1.12E-40
RNF122	brown	-0.353997872	3.86E-14	0.535289238	3.00E-33
GPR124	brown	-0.354591671	3.48E-14	0.807398703	4.03E-100
PFKFB4	brown	0.328343502	2.88E-12	-0.353119822	4.50E-14
ZNF385D	brown	-0.214399742	7.28E-06	0.530943961	1.21E-32
PTGER3	brown	-0.265453486	2.28E-08	0.689720759	5.42E-62
KCNB1	brown	-0.570136662	1.96E-38	0.827073597	3.86E-109
HPD	brown	-0.283784118	2.08E-09	0.534192809	4.27E-33
C8orf4	brown	-0.250933729	1.34E-07	0.219772803	4.22E-06
EMCN	brown	-0.370666706	1.88E-15	0.667026127	1.13E-56
TIGD1	brown	0.216273825	6.03E-06	-0.266995353	1.88E-08
THEM5	brown	0.107855966	0.025314684	-0.292286448	6.46E-10
FP325317.1	brown	-0.259159224	4.99E-08	0.536104592	2.30E-33
TNNI3K	brown	-0.219672242	4.26E-06	0.295442022	4.14E-10
AKAP13	brown	-0.286905626	1.36E-09	0.646319721	3.24E-52
LPIN1	brown	-0.157217523	0.001071655	0.441213485	6.54E-22
ABCA9	brown	-0.285280814	1.70E-09	0.4402486	8.22E-22
NRG2	brown	-0.293299526	5.60E-10	0.28950129	9.52E-10
TSHZ2	brown	-0.2447004	2.78E-07	0.396152882	1.31E-17
RBM10	brown	0.186983376	9.60E-05	-0.317780509	1.52E-11
HDAC5	brown	-0.249844889	1.53E-07	0.330015345	2.20E-12
CRTC3	brown	-0.251972006	1.19E-07	0.60903765	5.27E-45
ASMTL	brown	-0.129739036	0.007062366	0.242338896	3.64E-07
PDZRN4	brown	-0.538377461	1.10E-33	0.820372874	6.04E-106
ANKRD53	brown	-0.297453847	3.11E-10	0.506859086	1.91E-29

USP43	brown	0.225137034	2.41E-06	-0.324176534	5.59E-12
DDX54	brown	0.27677693	5.31E-09	-0.412974877	3.86E-19
EIF5A	brown	0.248492156	1.79E-07	-0.482171457	2.03E-26
STARD3	brown	0.266654891	1.96E-08	-0.34452083	1.99E-13
USP20	brown	-0.165719496	0.000559931	0.250803387	1.36E-07
GALE	brown	0.30638027	8.50E-11	-0.587336406	3.13E-41
AP4S1	brown	-0.122582519	0.010955112	0.330746954	1.96E-12
DCT	brown	-0.286078463	1.52E-09	0.465565161	1.62E-24
MPP2	brown	-0.183639277	0.000128374	0.336592748	7.52E-13
HDC	brown	-0.352208915	5.28E-14	0.673577225	3.68E-58
HSD17B6	brown	-0.384684634	1.29E-16	0.715143167	1.45E-68
PTPRD	brown	-0.275061254	6.65E-09	0.537111805	1.66E-33
ST8SIA1	brown	-0.324246784	5.53E-12	0.526378782	5.11E-32
PECAM1	brown	-0.222778071	3.09E-06	0.609833021	3.78E-45
KLF17	brown	-0.404236731	2.47E-18	0.75972526	5.03E-82
MYLK	brown	-0.444823922	2.77E-22	0.867395423	8.31E-132
SRRT	brown	0.268342811	1.58E-08	-0.498432132	2.20E-28
CRLF2	brown	-0.316624965	1.81E-11	0.399612172	6.45E-18
CNNM1	brown	-0.285206375	1.72E-09	0.381210246	2.54E-16
KANK3	brown	-0.239894598	4.81E-07	0.453202416	3.62E-23
PLCL1	brown	-0.427561528	1.54E-20	0.787528036	5.17E-92
ATP6AP1	brown	0.303224223	1.35E-10	-0.395988052	1.35E-17
ARHGEF9	brown	-0.315896646	2.03E-11	0.496279833	4.06E-28
AQP2	brown	-0.138006462	0.004141686	0.218746475	4.69E-06
PLA2G5	brown	-0.346499824	1.42E-13	0.775447464	1.70E-87
DNAJB4	brown	-0.365008695	5.35E-15	0.608116895	7.72E-45
ZNF671	brown	-0.186157527	0.000103175	0.411396352	5.42E-19
KDELR1	brown	0.378614852	4.19E-16	-0.427963817	1.41E-20
PAMR1	brown	-0.493186141	9.72E-28	0.633694828	1.16E-49
PRDM16	brown	-0.130198316	0.006861191	0.194722635	4.80E-05
TARS2	brown	0.298234688	2.78E-10	-0.399369769	6.78E-18
C4A	brown	-0.199590653	3.06E-05	0.63156327	3.04E-49
KCND1	brown	-0.036849485	0.445963452	0.245282009	2.60E-07
GEMIN7	brown	0.351544782	5.93E-14	-0.556583155	2.40E-36
STEAP3	brown	0.244153054	2.96E-07	-0.390310798	4.25E-17
EMID1	brown	-0.069341547	0.151161856	0.128302256	0.007726221
PLVAP	brown	-0.07662808	0.112580149	0.35110518	6.40E-14
ABCA8	brown	-0.550445285	1.98E-35	0.661627149	1.77E-55
HGF	brown	-0.211926133	9.33E-06	0.593121945	3.29E-42
PGM5	brown	-0.535286061	3.00E-33	0.826188559	1.04E-108
ALG14	brown	0.158507502	0.000973109	-0.23611549	7.34E-07
GEM	brown	-0.416285459	1.88E-19	0.795336263	4.31E-95
ROB04	brown	-0.150807067	0.001712383	0.459958135	6.73E-24
KCNN2	brown	-0.272328289	9.49E-09	0.492886226	1.06E-27
SMPDL3B	brown	0.183728783	0.000127387	-0.24256303	3.55E-07
ZNF516	brown	-0.266121493	2.10E-08	0.393101457	2.43E-17
ERC1	brown	-0.242657556	3.51E-07	0.52785691	3.21E-32
PIGU	brown	0.316431379	1.87E-11	-0.443726497	3.60E-22
ACTG2	brown	-0.397140948	1.07E-17	0.715229352	1.37E-68
RAB38	brown	0.074772236	0.121582668	-0.232439143	1.10E-06
PLEKHJ1	brown	0.316220431	1.93E-11	-0.440305717	8.11E-22

TXLNB	brown	-0.322335719	7.47E-12	0.625233405	5.12E-48
GSTM5	brown	-0.375383971	7.75E-16	0.390480323	4.11E-17
LRRC4B	brown	-0.351599821	5.87E-14	0.471180288	3.78E-25
TCEAL3	brown	-0.235545983	7.82E-07	0.405041766	2.08E-18
DMD	brown	-0.464817659	1.96E-24	0.78503005	4.69E-91
PDE1B	brown	-0.099402307	0.039364586	0.315842892	2.05E-11
LRRC3B	brown	-0.601844772	1.01E-43	0.409025764	8.99E-19
NPR1	brown	-0.344297024	2.07E-13	0.622844475	1.46E-47
TMEM47	brown	-0.165868099	0.000553458	0.297483977	3.10E-10
CAPN1	brown	0.200696778	2.76E-05	-0.495223195	5.48E-28
RBPMS2	brown	-0.402323663	3.68E-18	0.779004758	8.50E-89
SLC9A9	brown	-0.380053046	3.18E-16	0.610712239	2.62E-45
ADAT3	brown	0.220018101	4.11E-06	-0.366883367	3.80E-15
HPGDS	brown	-0.388266673	6.38E-17	0.663251469	7.79E-56
SLC25A12	brown	-0.233379225	9.93E-07	0.340383688	4.00E-13
MRPS22	brown	0.173252126	0.000306779	-0.356763227	2.37E-14
LEP	brown	-0.075339717	0.118772231	0.208522884	1.30E-05
RD3L	brown	-0.499626606	1.56E-28	0.262572199	3.27E-08
PREX2	brown	-0.350949443	6.58E-14	0.608152228	7.61E-45
CMA1	brown	-0.407425397	1.26E-18	0.773883454	6.22E-87
FBLN1	brown	-0.176750226	0.000230014	0.204838994	1.86E-05
UGP2	brown	-0.188423992	8.45E-05	0.313398926	2.97E-11
HN1	brown	0.450576138	6.89E-23	-0.603795704	4.57E-44
DUSP3	brown	-0.274568	7.10E-09	0.545908521	9.13E-35
TPRKB	brown	0.263824423	2.80E-08	-0.429025553	1.11E-20
GNAL	brown	-0.484670757	1.03E-26	0.706376671	3.21E-66
STAT5B	brown	-0.328407674	2.85E-12	0.595239774	1.43E-42
PCDH17	brown	8.36E-05	0.998621513	0.360324721	1.25E-14
DLC1	brown	-0.29879729	2.57E-10	0.568304989	3.80E-38
CLEC3A	brown	-0.431678139	6.03E-21	0.623969948	8.92E-48
CILP	brown	-0.341030745	3.59E-13	0.709015904	6.46E-67
PDZD11	brown	0.215546392	6.49E-06	-0.374475079	9.21E-16
THAP8	brown	-0.03921233	0.417325894	0.235911863	7.51E-07
KPTN	brown	0.296392087	3.62E-10	-0.426989647	1.75E-20
PACSIN3	brown	0.17192251	0.000341778	-0.322807503	6.94E-12
LURAP1	brown	-0.3036341	1.27E-10	0.426875114	1.80E-20
IMP4	brown	0.248779592	1.73E-07	-0.389238068	5.26E-17
C14orf28	brown	-0.262921773	3.13E-08	0.468186442	8.24E-25
PELI2	brown	-0.405944393	1.72E-18	0.610484708	2.88E-45
AKAP12	brown	-0.357835213	1.96E-14	0.599989354	2.14E-43
AXIN2	brown	-0.137860323	0.004181981	0.38428301	1.40E-16
GSN	brown	-0.424877358	2.82E-20	0.619046592	7.60E-47
CPXM2	brown	-0.319526508	1.16E-11	0.765006396	8.15E-84
TMX4	brown	-0.289518887	9.50E-10	0.509397512	9.04E-30
BCO2	brown	-0.273689758	7.96E-09	0.235127753	8.19E-07
RAB9B	brown	-0.464484801	2.13E-24	0.764546029	1.17E-83
TRPC4	brown	-0.295048072	4.38E-10	0.699095045	2.46E-64
AOX1	brown	-0.518385857	6.05E-31	0.822802883	4.35E-107
FAM57A	brown	0.081193487	0.092658019	-0.225708176	2.27E-06
AVPR2	brown	-0.289570037	9.43E-10	0.460907345	5.30E-24
CASQ2	brown	-0.460974605	5.21E-24	0.818273134	5.69E-105

2-Mar	brown	-0.162935249	0.000694977	0.381865912	2.24E-16
ESYT2	brown	-0.181985924	0.000147948	0.419544314	9.23E-20
DHRS1	brown	0.051793713	0.283895089	-0.3245554	5.27E-12
CFAP221	brown	0.059187903	0.220632552	0.166450404	0.000528757
CASP14	brown	0.149763263	0.001845083	-0.234403863	8.87E-07
EBF1	brown	-0.438721011	1.18E-21	0.846205132	4.44E-119
ADAMTSL2	brown	-0.051041902	0.29095226	0.160039553	0.000866958
CALM1	brown	-0.164071231	0.000636595	0.283212524	2.25E-09
TECR	brown	0.24651768	2.25E-07	-0.550826839	1.74E-35
MROH6	brown	0.211206267	1.00E-05	-0.255245997	8.02E-08
ACAN	brown	0.107430854	0.025900549	0.194410664	4.94E-05
OXER1	brown	-0.348094548	1.08E-13	0.380173475	3.10E-16
PCSK7	brown	-0.396221503	1.29E-17	0.767348561	1.27E-84
ACTN3	brown	-0.176605366	0.000232799	0.30878305	5.95E-11
FHL1	brown	-0.470029594	5.10E-25	0.854596803	7.08E-124
PEX14	brown	-0.229629689	1.49E-06	0.123279936	0.010506044
CHRD1	brown	-0.454882402	2.39E-23	0.728781197	2.13E-72
ENDOG	brown	0.121115267	0.011955743	-0.36848919	2.82E-15
FAT4	brown	-0.400575289	5.28E-18	0.841164202	2.47E-116
WWC1	brown	0.21781391	5.15E-06	-0.269243848	1.41E-08
GPM6B	brown	-0.336106212	8.15E-13	0.552635548	9.37E-36
WDR17	brown	-0.205210399	1.80E-05	0.332363834	1.50E-12
TRAF5	brown	-0.120840644	0.012151751	0.362337316	8.71E-15
CDIP1	brown	-0.255099696	8.16E-08	0.348288729	1.04E-13
ENPP3	brown	-0.262449902	3.32E-08	0.485061188	9.25E-27
RHOV	brown	0.183817756	0.000126413	-0.409287475	8.50E-19
C11orf80	brown	0.265827323	2.18E-08	-0.309482409	5.36E-11
TACC2	brown	-0.384091758	1.45E-16	0.418668612	1.12E-19
IL13	brown	-0.299771816	2.23E-10	0.360204052	1.28E-14
KRT18	brown	0.331288376	1.79E-12	-0.48242581	1.90E-26
TACR1	brown	-0.406596635	1.50E-18	0.611302088	2.05E-45
HABP4	brown	-0.300446771	2.02E-10	0.604334799	3.67E-44
TMEM258	brown	0.335050147	9.69E-13	-0.481608932	2.36E-26
PDE4D	brown	-0.426767928	1.84E-20	0.60523322	2.54E-44
RNF180	brown	-0.485687792	7.79E-27	0.735632591	2.06E-74
DOK6	brown	-0.460657721	5.64E-24	0.754781624	2.17E-80
PRSS8	brown	0.274354423	7.30E-09	-0.310932018	4.31E-11
MEGF8	brown	-0.131827923	0.00618814	0.291055981	7.67E-10
CSRNP1	brown	-0.490086352	2.31E-27	0.550036555	2.27E-35
MRPL27	brown	0.294037678	5.05E-10	-0.519989767	3.71E-31
DUS3L	brown	0.165467573	0.000571065	-0.327844578	3.12E-12
SRL	brown	-0.538118854	1.20E-33	0.780909201	1.67E-89
LEPR	brown	-0.423526312	3.82E-20	0.596258864	9.53E-43
CPQ	brown	-0.278167427	4.42E-09	0.542682275	2.67E-34
GPIHBP1	brown	-0.482402376	1.91E-26	0.687419349	1.97E-61
AGMAT	brown	0.231927037	1.16E-06	-0.347847922	1.13E-13
UTRN	brown	-0.282787492	2.38E-09	0.603751548	4.65E-44
KIAA1377	brown	-0.270664408	1.18E-08	0.420921132	6.81E-20
PLA2G2A	brown	-0.200906844	2.71E-05	0.399019717	7.28E-18
LRFN5	brown	-0.47586836	1.10E-25	0.718282455	1.99E-69
KCNMA1	brown	-0.498116369	2.41E-28	0.84495863	2.17E-118

OAS1	brown	0.2010952	2.66E-05	-0.375692917	7.31E-16
KCP	brown	0.153660115	0.001393035	-0.204403349	1.94E-05
C7	brown	-0.482237177	1.99E-26	0.76298798	3.99E-83
EBF2	brown	-0.404614981	2.28E-18	0.760984644	1.90E-82
TMEM233	brown	-0.224549353	2.56E-06	0.404605872	2.28E-18
TMEM229A	brown	-0.294149487	4.97E-10	0.532565845	7.19E-33
ZMAT3	brown	-0.13339043	0.005599066	0.434172993	3.40E-21
SSBP2	brown	-0.317302571	1.63E-11	0.496903474	3.40E-28
LDB3	brown	-0.450213532	7.53E-23	0.658491104	8.57E-55
ITGB4	brown	0.16695298	0.000508265	-0.396641945	1.18E-17
UBE2J2	brown	0.27769044	4.71E-09	-0.472795879	2.48E-25
NR4A3	brown	-0.540725442	5.10E-34	0.61346379	8.24E-46
LAMA2	brown	-0.418542871	1.15E-19	0.798340315	2.60E-96
CMTM5	brown	-0.693333227	6.94E-63	0.719385558	9.85E-70
PTGFR	brown	-0.492896365	1.05E-27	0.838526309	6.20E-115
MYOT	brown	-0.489654738	2.61E-27	0.604131179	3.98E-44
TMED9	brown	0.28892852	1.03E-09	-0.296798912	3.41E-10
GPRASP1	brown	-0.50667391	2.02E-29	0.819158803	2.22E-105
CEP85L	brown	-0.410793529	6.16E-19	0.593676533	2.65E-42
HOXB7	brown	0.283493113	2.17E-09	-0.441311521	6.39E-22
SLC8A1	brown	-0.388730252	5.82E-17	0.737679478	5.02E-75
PAK3	brown	-0.058247513	0.228066734	0.200104395	2.92E-05
ANG	brown	-0.211142558	1.01E-05	0.278746577	4.09E-09
PHYHD1	brown	-0.266276527	2.06E-08	0.394946894	1.67E-17
PARD3B	brown	-0.413774491	3.25E-19	0.729013156	1.83E-72
TUB	brown	-0.33648516	7.65E-13	0.61191893	1.58E-45
HSF1	brown	0.206280431	1.62E-05	-0.345141774	1.79E-13
NKIRAS1	brown	-0.132098068	0.006082478	0.342902952	2.62E-13
BOLA3	brown	0.327309292	3.40E-12	-0.459700214	7.18E-24
PDXK	brown	0.321511218	8.51E-12	-0.330601791	2.00E-12
AAAS	brown	0.294282866	4.88E-10	-0.369019766	2.56E-15
TMEM256-PL	brown	0.162749147	0.000705001	-0.288449231	1.10E-09
PIP5K1C	brown	-0.277139417	5.06E-09	0.490694786	1.95E-27
SELE	brown	-0.295161562	4.31E-10	0.458950303	8.67E-24
DCXR	brown	0.238378551	5.70E-07	-0.446030446	2.07E-22
FAM107A	brown	-0.626159552	3.40E-48	0.718595761	1.63E-69
EBPL	brown	0.13362516	0.005515067	-0.276215465	5.72E-09
SLC40A1	brown	-0.131881958	0.006166875	0.352275659	5.22E-14
IL33	brown	-0.280230925	3.36E-09	0.471409723	3.56E-25
ANKRD16	brown	0.198395538	3.42E-05	-0.279823822	3.55E-09
MAOB	brown	-0.40694448	1.40E-18	0.680874918	7.31E-60
MKX	brown	-0.374980414	8.37E-16	0.729989075	9.52E-73
BAG2	brown	-0.369572182	2.31E-15	0.698454002	3.58E-64
PISD	brown	0.202914934	2.24E-05	-0.250720674	1.38E-07
TP53I11	brown	-0.049498703	0.305803635	0.168679476	0.000443356
ZCCHC24	brown	-0.408199599	1.07E-18	0.812136555	3.40E-102
BCL2	brown	-0.33420244	1.11E-12	0.536593352	1.97E-33
ZBTB47	brown	-0.326590303	3.81E-12	0.593164456	3.24E-42
RUNX1T1	brown	-0.402213159	3.76E-18	0.831308491	3.12E-111
CACNA1G	brown	-0.002116107	0.965101408	0.157870816	0.001020652
CPE	brown	-0.205534144	1.74E-05	0.376781665	5.94E-16

TLL7	brown	-0.343127268	2.52E-13	0.555284095	3.77E-36
TCEAL2	brown	-0.459664061	7.24E-24	0.730690406	5.95E-73
FAM155A	brown	-0.220254723	4.01E-06	0.333295826	1.29E-12
CAPN15	brown	0.254138	9.17E-08	-0.43710398	1.72E-21
BRAT1	brown	0.262805129	3.18E-08	-0.397323897	1.03E-17
ZFYVE27	brown	0.198152256	3.50E-05	-0.296251131	3.69E-10
RAC1	brown	0.172933573	0.000314846	-0.357478383	2.08E-14
ESAM	brown	-0.095167067	0.048591345	0.379068472	3.84E-16
OR2C1	brown	-0.10128629	0.035763548	0.226962192	1.99E-06
FHL5	brown	-0.382631404	1.93E-16	0.692116089	1.39E-62
TMEM220	brown	-0.457061203	1.39E-23	0.672049968	8.23E-58
SNRK	brown	-0.30901532	5.75E-11	0.575523984	2.71E-39
INPP5A	brown	-0.318566349	1.34E-11	0.459932922	6.77E-24
TBC1D1	brown	-0.16027047	0.00085192	0.339297358	4.80E-13
HSPB3	brown	-0.19819473	3.49E-05	0.367209156	3.57E-15
LDB2	brown	-0.34475035	1.91E-13	0.704393035	1.06E-65
ZDHHC24	brown	0.361793299	9.61E-15	-0.425515268	2.44E-20
ESR1	brown	-0.310968781	4.29E-11	0.233318757	9.99E-07
MTG2	brown	0.331738154	1.67E-12	-0.383727999	1.56E-16
THEGL	brown	-0.152149418	0.00155459	0.356876569	2.32E-14
DMGDH	brown	-0.600549255	1.71E-43	0.807998044	2.22E-100
NCALD	brown	-0.3808374	2.73E-16	0.666996443	1.14E-56
KLF12	brown	-0.197503144	3.72E-05	0.504847042	3.45E-29
RXRG	brown	-0.506607055	2.06E-29	0.569946706	2.10E-38
TARBP2	brown	0.414942313	2.52E-19	-0.573906365	4.93E-39
SSBP1	brown	0.252429914	1.12E-07	-0.48167996	2.32E-26
FUCA2	brown	0.254772251	8.49E-08	-0.265061323	2.40E-08
FAM110D	brown	-0.356638121	2.42E-14	0.523317617	1.33E-31
TOMM34	brown	0.283910595	2.05E-09	-0.340222233	4.11E-13
MPRIP	brown	-0.129828412	0.007022808	0.253192819	1.03E-07
RAD51L3-RF	brown	-0.116055992	0.016052308	0.186306541	0.00010184
WWTR1	brown	-0.351575162	5.90E-14	0.732241361	2.09E-73
HHIP	brown	-0.341340841	3.41E-13	0.294120446	4.99E-10
PTP4A3	brown	-0.077191582	0.109952872	0.394203782	1.94E-17
STARD13	brown	-0.371686174	1.56E-15	0.770771113	7.99E-86
PSMA4	brown	0.292917447	5.91E-10	-0.482120979	2.06E-26
MYOCD	brown	-0.597403658	6.04E-43	0.840448848	5.96E-116
SLIT2	brown	-0.448169608	1.24E-22	0.819507674	1.53E-105
CHCHD1	brown	0.329875542	2.25E-12	-0.509989055	7.59E-30
THOC3	brown	0.271576091	1.05E-08	-0.481449413	2.47E-26
SV2B	brown	-0.064452693	0.182198475	0.304635365	1.10E-10
MEOX1	brown	-0.379260788	3.70E-16	0.607495457	9.99E-45
WNT9A	brown	-0.247239175	2.07E-07	0.262374469	3.35E-08
THRSP	brown	-0.077516274	0.108461094	0.244529476	2.84E-07
C11orf98	brown	0.275728058	6.10E-09	-0.493867894	8.03E-28
CCDC3	brown	-0.267415294	1.78E-08	0.518963126	5.07E-31
NPRL3	brown	0.248085387	1.88E-07	-0.35016007	7.55E-14
TSPAN18	brown	-0.3696386	2.28E-15	0.753812788	4.48E-80
RAI2	brown	-0.458094239	1.07E-23	0.706051894	3.91E-66
KIAA2013	brown	0.248143078	1.86E-07	-0.360114661	1.30E-14
ANKRD34A	brown	-0.05560495	0.249903928	0.304847161	1.07E-10

ZNF135	brown	-0.155559236	0.00121185	0.285148364	1.73E-09
SLC39A11	brown	0.329424832	2.42E-12	-0.363560929	6.97E-15
TIAM2	brown	-0.200520468	2.81E-05	0.478948663	4.84E-26
FLT1	brown	-0.041983733	0.385152413	0.260356395	4.30E-08
SHROOM3	brown	-0.142760237	0.003007867	0.288792939	1.05E-09
AARD	brown	-0.454204878	2.83E-23	0.750681027	4.59E-79
VARS2	brown	0.244401146	2.88E-07	-0.333709109	1.21E-12
DPCD	brown	0.230670132	1.33E-06	-0.372097797	1.44E-15
CCDC176	brown	-0.085291219	0.077277047	0.379687418	3.41E-16
TMEM179B	brown	0.279590659	3.66E-09	-0.406836227	1.43E-18
CDC42EP3	brown	-0.252152257	1.16E-07	0.534090193	4.41E-33
SGCD	brown	-0.414921613	2.53E-19	0.821291771	2.24E-106
CBX4	brown	0.246208437	2.34E-07	-0.290330449	8.49E-10
NT5C3A	brown	0.247071506	2.11E-07	-0.370271954	2.03E-15
RBMX2	brown	0.123818267	0.01017065	-0.284584708	1.87E-09
BLOC1S3	brown	0.384952956	1.23E-16	-0.380861564	2.72E-16
HSPA12B	brown	-0.241776568	3.89E-07	0.671722346	9.78E-58
CST11	brown	-0.065916725	0.172446828	0.194069906	5.10E-05
NKAPL	brown	-0.569311095	2.64E-38	0.803703897	1.52E-98
PTPN21	brown	-0.219496431	4.34E-06	0.498412361	2.21E-28
HIF3A	brown	-0.42612373	2.13E-20	0.620158755	4.70E-47
SBDS	brown	-0.332302068	1.52E-12	0.432316189	5.21E-21
C6orf223	brown	0.123746091	0.010215059	-0.178348581	0.000201287
ARMCX2	brown	-0.079571855	0.099383905	0.230929606	1.30E-06
FAM150B	brown	-0.347744688	1.15E-13	0.31055269	4.56E-11
F2RL1	brown	0.025810359	0.59351729	-0.193647918	5.30E-05
CCDC69	brown	-0.433619813	3.86E-21	0.631674275	2.89E-49
MAPK13	brown	0.3343335	1.09E-12	-0.570157246	1.94E-38
TRADD	brown	0.229463593	1.52E-06	-0.32394126	5.81E-12
PRDM6	brown	-0.49185568	1.41E-27	0.7906239	3.23E-93
RYR2	brown	-0.370793911	1.84E-15	0.726331735	1.08E-71
ZNF835	brown	-0.20456933	1.91E-05	0.421009374	6.68E-20
DGKB	brown	-0.390366502	4.20E-17	0.663463479	6.99E-56
PTGES3L	brown	-0.4160107	2.00E-19	0.599926386	2.19E-43
CSTB	brown	0.179854645	0.000177324	-0.517762764	7.32E-31
PGPEP1L	brown	-0.187246471	9.38E-05	0.34056575	3.88E-13
PDK4	brown	-0.478431429	5.56E-26	0.670871527	1.53E-57
SEPT4	brown	-0.056959753	0.238532983	0.474500352	1.58E-25
PRKCSH	brown	0.308794963	5.94E-11	-0.45623738	1.71E-23
RGS11	brown	-0.158724452	0.000957381	0.332921087	1.37E-12
THSD7B	brown	-0.166509443	0.000526311	0.245436215	2.55E-07
SPON1	brown	-0.350841838	6.70E-14	0.732185153	2.17E-73
LRCH1	brown	-0.286189966	1.50E-09	0.64700491	2.34E-52
LY6D	brown	0.065203832	0.17714555	-0.28463072	1.86E-09
ERO1L	brown	0.24865667	1.76E-07	-0.368402992	2.87E-15
TIMM23	brown	0.259729076	4.65E-08	-0.425493091	2.46E-20
TMEM150C	brown	-0.204100481	2.00E-05	0.469623339	5.67E-25
DYNLT1	brown	0.137834064	0.004189259	-0.286754556	1.39E-09
DCAF15	brown	0.339977251	4.28E-13	-0.518789005	5.35E-31
PRICKLE2	brown	-0.421259487	6.32E-20	0.734505405	4.47E-74
PQLC2	brown	0.431960762	5.66E-21	-0.427701727	1.49E-20

SPEG	brown	-0.3836784	1.57E-16	0.735479654	2.29E-74
ISL2	brown	0.249379582	1.61E-07	-0.292962551	5.88E-10
ACKR3	brown	-0.185330427	0.000110887	0.295628506	4.03E-10
ADIPOQ	brown	-0.166501085	0.000526656	0.41853657	1.15E-19
ULBP2	brown	0.280343811	3.31E-09	-0.309420768	5.41E-11
RBFOX3	brown	-0.58113935	3.33E-40	0.822740314	4.65E-107
UNC5C	brown	-0.333492121	1.25E-12	0.623361442	1.17E-47
MTTP	brown	-0.316249241	1.92E-11	0.578809598	7.99E-40
YTHDF1	brown	0.280086897	3.43E-09	-0.35277572	4.78E-14
CYFIP2	brown	-0.15981855	0.00088158	0.295488711	4.11E-10
HAAO	brown	-0.442188992	5.19E-22	0.560902484	5.31E-37
SRP19	brown	0.170886532	0.00037159	-0.283531769	2.16E-09
MAGI2	brown	-0.402751477	3.36E-18	0.582369516	2.09E-40
TSPYL2	brown	-0.36559085	4.81E-15	0.46476241	1.99E-24
FAM127B	brown	0.211063607	1.02E-05	-0.361041904	1.10E-14
MDK	brown	0.242170031	3.72E-07	-0.306849623	7.93E-11
LSR	brown	0.321117766	9.05E-12	-0.535383615	2.91E-33
CDK5	brown	0.363589178	6.94E-15	-0.425370248	2.53E-20
HSBP1	brown	0.228254084	1.73E-06	-0.374882299	8.53E-16
LDOC1	brown	-0.122491396	0.011015024	0.195763738	4.37E-05
ZNF25	brown	-0.312619316	3.34E-11	0.69292103	8.79E-63
BTBD6	brown	0.178248452	0.000202983	-0.303304486	1.34E-10
DDX28	brown	0.155157329	0.001248279	-0.391220756	3.54E-17
TXNDC17	brown	0.185354323	0.000110657	-0.55575229	3.21E-36
ACE	brown	-0.003646068	0.939907092	0.226070346	2.18E-06
FDXR	brown	0.222967662	3.03E-06	-0.463036268	3.09E-24
CPSF1	brown	0.296575729	3.53E-10	-0.357799074	1.97E-14
KRTCAP2	brown	0.308880492	5.86E-11	-0.455957846	1.83E-23
TSLP	brown	-0.332069925	1.58E-12	0.329923784	2.23E-12
WDR18	brown	0.31089225	4.34E-11	-0.501169582	1.00E-28
SERTM1	brown	-0.375865743	7.08E-16	0.550770549	1.77E-35
ZNRD1	brown	0.20651419	1.59E-05	-0.486780223	5.77E-27
FREM1	brown	-0.250167353	1.47E-07	0.34456832	1.97E-13
NRXN2	brown	-0.281162196	2.97E-09	0.635117818	6.05E-50
CLUAP1	brown	-0.214868253	6.95E-06	0.36838186	2.88E-15
TMEM255B	brown	-0.091216161	0.058766754	0.432825342	4.64E-21
CSRNP3	brown	-0.306523103	8.32E-11	0.51367753	2.52E-30
TMEM11	brown	0.236372314	7.13E-07	-0.376649645	6.10E-16
C16orf45	brown	-0.349854155	7.96E-14	0.573795776	5.13E-39
AGT	brown	-0.120660247	0.012282047	0.357029065	2.26E-14
CLEC3B	brown	-0.648797612	9.90E-53	0.725666738	1.68E-71
TTC23	brown	-0.180679007	0.000165367	0.36632001	4.21E-15
C11orf31	brown	0.281379068	2.88E-09	-0.456846596	1.47E-23
ERGIC3	brown	0.263706777	2.84E-08	-0.414159806	2.99E-19
RBCK1	brown	0.283015202	2.31E-09	-0.400450126	5.42E-18
STARD9	brown	-0.426962675	1.76E-20	0.796825862	1.08E-95
MCAM	brown	-0.274422664	7.23E-09	0.683886289	1.40E-60
TCEAL7	brown	-0.457288096	1.31E-23	0.784782811	5.83E-91
ANKS1B	brown	-0.403128688	3.11E-18	0.639857554	6.80E-51
ADAMTS4	brown	-0.27527186	6.47E-09	0.572179827	9.28E-39
RBMS3	brown	-0.393205931	2.38E-17	0.768513818	4.97E-85

C7orf43	brown	0.305741797	9.34E-11	-0.420055758	8.24E-20
NOVA1	brown	-0.41369419	3.31E-19	0.602850543	6.72E-44
CNTNAP1	brown	-0.228271807	1.73E-06	0.702769983	2.80E-65
C6orf132	brown	0.097151785	0.044063819	-0.34689002	1.33E-13
EGR1	brown	-0.415557181	2.21E-19	0.556337336	2.62E-36
ZC3H3	brown	0.329543245	2.38E-12	-0.423212576	4.09E-20
FAXC	brown	-0.2631475	3.05E-08	0.512114775	4.03E-30
STON1	brown	-0.405403004	1.93E-18	0.727993364	3.61E-72
LYVE1	brown	-0.389264966	5.23E-17	0.729172175	1.64E-72
BHMT2	brown	-0.5980988	4.57E-43	0.897116968	6.12E-154
C16orf89	brown	-0.675615454	1.25E-58	0.73812846	3.68E-75
NLGN1	brown	-0.418409892	1.18E-19	0.594569702	1.86E-42
GPR146	brown	-0.343535722	2.35E-13	0.637878932	1.70E-50
TUBB4B	brown	0.109463924	0.023200884	-0.438886937	1.13E-21
ROR1	brown	-0.392959032	2.50E-17	0.740280673	8.17E-76
GJA4	brown	-0.148659056	0.001995656	0.472237971	2.87E-25
SPRY1	brown	-0.382621141	1.93E-16	0.644898307	6.37E-52
CTS0	brown	-0.168346059	0.000455256	0.428032395	1.39E-20
CMC1	brown	0.302592815	1.48E-10	-0.360678404	1.17E-14
CPNE1	brown	0.259433392	4.82E-08	-0.340421405	3.97E-13
SPRY2	brown	-0.2315843	1.21E-06	0.324900723	4.99E-12
RPP38	brown	0.250977083	1.34E-07	-0.432343736	5.18E-21
HBM	brown	0.00103587	0.982912428	0.175534075	0.000254394
TIMP4	brown	-0.151292672	0.00165368	0.311192262	4.15E-11
LMOD3	brown	-0.614382284	5.58E-46	0.750151544	6.78E-79
GNG7	brown	-0.516659302	1.02E-30	0.684099533	1.25E-60
RDH5	brown	-0.209480789	1.19E-05	0.529079916	2.18E-32
WISP2	brown	-0.286367787	1.47E-09	0.615498136	3.47E-46
METTL1	brown	0.323068752	6.66E-12	-0.454121059	2.88E-23
TMEM252	brown	-0.584194461	1.04E-40	0.801748066	1.01E-97
DAZAP1	brown	0.394161724	1.96E-17	-0.597550307	5.69E-43
HOPX	brown	-0.040282623	0.404717848	0.197100765	3.86E-05
RNF149	brown	0.2420375	3.77E-07	-0.400111624	5.81E-18
PTPN3	brown	0.204477457	1.93E-05	-0.302608323	1.48E-10
LPPR2	brown	-0.044612081	0.356078861	0.203244914	2.17E-05
GPR87	brown	0.13762304	0.004248164	-0.286307796	1.48E-09
TLCD1	brown	0.303339178	1.33E-10	-0.495114999	5.65E-28
E2F4	brown	0.220496715	3.91E-06	-0.295725674	3.98E-10
pk	brown	-0.40599625	1.71E-18	0.732169651	2.19E-73
NTRK2	brown	-0.150934306	0.00169682	0.326017478	4.18E-12
TGFBR2	brown	-0.282342342	2.53E-09	0.605936448	1.90E-44
TMEM240	brown	-0.214264404	7.38E-06	0.388389309	6.23E-17
NR3C2	brown	-0.489975245	2.39E-27	0.680242817	1.03E-59
PLD2	brown	0.098725295	0.040731447	-0.23594794	7.48E-07
C2CD4B	brown	-0.359269545	1.51E-14	0.435435772	2.54E-21
ZNF728	brown	-0.300668548	1.96E-10	0.422942985	4.35E-20
P4HA1	brown	0.195481702	4.48E-05	-0.199712598	3.03E-05
PRKAG2	brown	-0.366145227	4.35E-15	0.529642325	1.83E-32
SLC39A4	brown	0.365218601	5.15E-15	-0.551540481	1.36E-35
SH2D3A	brown	0.183622115	0.000128564	-0.511908636	4.28E-30
TMEM81	brown	0.216457486	5.92E-06	-0.20756327	1.43E-05

FBXL7	brown	-0.432264427	5.27E-21	0.847314527	1.07E-119
KRT222	brown	-0.210500724	1.07E-05	0.350970551	6.56E-14
CCDC81	brown	-0.212711814	8.62E-06	0.387175279	7.92E-17
SYNM	brown	-0.49769608	2.71E-28	0.859918227	4.45E-127
S100A11	brown	0.297165772	3.24E-10	-0.565355576	1.09E-37
PINK1	brown	-0.14281787	0.002996049	0.287293076	1.29E-09
KIAA0408	brown	-0.502336148	7.15E-29	0.636939411	2.62E-50
IL1RL1	brown	-0.120327469	0.012525641	0.27927597	3.82E-09
PER2	brown	-0.467683599	9.38E-25	0.415887051	2.05E-19
CGB7	brown	0.124313481	0.009870543	-0.221249359	3.62E-06
TCEAL1	brown	-0.308592198	6.12E-11	0.399565801	6.51E-18
ANK2	brown	-0.487195014	5.15E-27	0.79115283	2.00E-93
NANOS1	brown	-0.08503256	0.078182357	0.290586219	8.19E-10
PACSIN2	brown	-0.110621632	0.021775158	0.3249613	4.94E-12
PCDH18	brown	-0.325018151	4.90E-12	0.767336772	1.28E-84
CHRM3	brown	-0.371325236	1.66E-15	0.6172349	1.66E-46
HTR2A	brown	-0.309671214	5.21E-11	0.697700743	5.56E-64
SLC6A16	brown	-0.107454414	0.025867777	0.253542455	9.84E-08
MECP2	brown	-0.198710515	3.32E-05	0.362375346	8.65E-15
C6	brown	-0.166796802	0.000514553	0.42613222	2.13E-20
ZCWPW2	brown	-0.417539193	1.43E-19	0.605154701	2.62E-44
SCRG1	brown	-0.293666572	5.32E-10	0.771541887	4.26E-86
GNB2	brown	0.233153293	1.02E-06	-0.380094051	3.15E-16
CABS1	brown	-0.39759673	9.75E-18	0.345975146	1.55E-13
RPP25L	brown	0.128768525	0.007504919	-0.404639547	2.27E-18
ADAMTS17	brown	-0.050753221	0.293693053	0.269515545	1.36E-08
TGIF1	brown	0.136778429	0.004491493	-0.250234737	1.46E-07
DDX41	brown	0.318351982	1.39E-11	-0.428488711	1.25E-20
TSPAN2	brown	-0.319698072	1.13E-11	0.611869844	1.61E-45
UBE2L3	brown	0.220684196	3.84E-06	-0.341126447	3.53E-13
AKR1A1	brown	0.270301309	1.23E-08	-0.378762702	4.07E-16
C22orf39	brown	-0.214787418	7.01E-06	0.307005431	7.75E-11
TP53INP2	brown	-0.404606744	2.28E-18	0.512045646	4.11E-30
NGFR	brown	-0.19759026	3.69E-05	0.469958816	5.20E-25
NOTCH4	brown	-0.062404952	0.196513404	0.382737717	1.89E-16
PDZRN3	brown	-0.425075995	2.70E-20	0.801867636	9.00E-98
SVEP1	brown	-0.542661732	2.69E-34	0.768965572	3.45E-85
CC2D2A	brown	-0.347019457	1.30E-13	0.584889387	8.01E-41
SHROOM4	brown	-0.107232964	0.02617723	0.326523636	3.85E-12
PCDHGA12	brown	-0.240061622	4.72E-07	0.682208767	3.53E-60
PLEKHH2	brown	-0.199255194	3.16E-05	0.312363903	3.47E-11
ADARB1	brown	-0.309871733	5.05E-11	0.694804792	2.98E-63
SCN4B	brown	-0.399210023	7.00E-18	0.525032812	7.78E-32
VSX1	brown	-0.208327232	1.33E-05	0.367782423	3.22E-15
PALMD	brown	-0.107269107	0.026126508	0.163397933	0.000670624
ATP5H	brown	0.184155749	0.000122777	-0.41124974	5.59E-19
TBX5	brown	-0.41181919	4.95E-19	0.683661097	1.59E-60
PKIB	brown	0.135124359	0.005004791	-0.158306178	0.000987917
NEGR1	brown	-0.584348474	9.85E-41	0.877551874	1.03E-138
NUDT14	brown	0.219643469	4.27E-06	-0.377370105	5.31E-16
FIGF	brown	-0.521373301	2.42E-31	0.653200577	1.17E-53

PRKAA2	brown	-0.361626074	9.90E-15	0.495804267	4.65E-28
CDC42BPA	brown	-0.290793479	7.96E-10	0.571470576	1.20E-38
NNAT	brown	-0.168294056	0.000457139	0.219167547	4.49E-06
DIXDC1	brown	-0.475428874	1.24E-25	0.905930734	7.75E-162
CERS4	brown	-0.161187308	0.000794559	0.234243509	9.03E-07
COL4A6	brown	-0.27584848	6.00E-09	0.284767632	1.82E-09
SFN	brown	0.23029397	1.39E-06	-0.475682508	1.16E-25
APOLD1	brown	-0.426441812	1.98E-20	0.659843197	4.35E-55
KIAA0513	brown	-0.33829324	5.67E-13	0.467612169	9.55E-25
DSEL	brown	-0.224757048	2.51E-06	0.512361041	3.74E-30
MICU3	brown	-0.55187074	1.22E-35	0.840465209	5.84E-116
HRASLS5	brown	-0.201578356	2.54E-05	0.410456986	6.62E-19
KDF1	brown	0.306924222	7.84E-11	-0.603655243	4.84E-44
PKHD1L1	brown	-0.190602865	6.97E-05	0.319165449	1.23E-11
MIEN1	brown	0.259117277	5.01E-08	-0.458515396	9.67E-24
MRPL4	brown	0.205153693	1.81E-05	-0.425848923	2.27E-20
DPP9	brown	0.24097305	4.26E-07	-0.25662118	6.79E-08
PRKG1	brown	-0.420849393	6.92E-20	0.873042183	1.42E-135
SHKBP1	brown	0.291779805	6.93E-10	-0.366176783	4.32E-15
BID	brown	0.354902711	3.29E-14	-0.446072662	2.05E-22
SGCA	brown	-0.457845526	1.14E-23	0.793889452	1.64E-94
TIMM17B	brown	0.253685865	9.68E-08	-0.495379678	5.24E-28
ZER1	brown	-0.186987793	9.59E-05	0.206346886	1.61E-05
SOX17	brown	-0.5011429	1.01E-28	0.647924397	1.51E-52
CAP2	brown	-0.310586848	4.54E-11	0.587315823	3.16E-41
CD300LG	brown	-0.474492646	1.58E-25	0.654127315	7.43E-54
SLC22A17	brown	-0.192676614	5.78E-05	0.322255871	7.57E-12
GPRASP2	brown	-0.311786576	3.79E-11	0.518145174	6.52E-31
MED18	brown	0.211492321	9.74E-06	-0.375476006	7.62E-16
RAD9A	brown	0.298042415	2.86E-10	-0.493046938	1.01E-27
ARHGEF17	brown	-0.236267445	7.22E-07	0.683962816	1.35E-60
NDUFB4	brown	0.214108444	7.50E-06	-0.396320012	1.26E-17
PPME1	brown	0.195256945	4.57E-05	-0.289096988	1.01E-09
VPS16	brown	0.267007191	1.88E-08	-0.276466095	5.53E-09
A2M	brown	-0.356852543	2.33E-14	0.734480029	4.55E-74
GNL2	brown	0.242021983	3.78E-07	-0.394355097	1.89E-17
RHBDD3	brown	0.321546725	8.46E-12	-0.365439607	4.95E-15
HSPG2	brown	-0.210581697	1.07E-05	0.69892577	2.72E-64
ARHGAP24	brown	-0.334664788	1.03E-12	0.762686978	5.05E-83
RBFA	brown	0.12097491	0.012055569	-0.223387193	2.90E-06
HBA2	brown	-0.21899284	4.57E-06	0.257927098	5.80E-08
LPAR3	brown	0.082734868	0.086607437	-0.231008725	1.29E-06
TNFRSF25	brown	0.277050886	5.12E-09	-0.429151662	1.07E-20
FSCN1	brown	0.199276478	3.15E-05	-0.297014305	3.31E-10
KIAA1644	brown	-0.514944842	1.72E-30	0.866362501	3.89E-131
FOSB	brown	-0.420091892	8.18E-20	0.341571032	3.28E-13
TSTD1	brown	0.251604552	1.24E-07	-0.464761193	1.99E-24
ADPRHL2	brown	0.333303708	1.29E-12	-0.484374967	1.12E-26
KL	brown	-0.089445488	0.063868325	0.296352994	3.64E-10
ZNF331	brown	-0.182489608	0.000141707	0.21735523	5.40E-06
ITGA9	brown	-0.364914273	5.45E-15	0.711502591	1.40E-67

GIPC1	brown	0.264921769	2.44E-08	-0.572240496	9.08E-39
SLC25A30	brown	-0.107281547	0.026109069	0.40548125	1.90E-18
DUSP23	brown	0.224853574	2.48E-06	-0.285271324	1.70E-09
SPINK13	brown	-0.149466821	0.001884451	0.205007908	1.83E-05
SUV420H2	brown	0.268863835	1.48E-08	-0.351826656	5.65E-14
ALDH7A1	brown	-0.13005824	0.006921997	0.184835949	0.000115754
PRAC1	brown	-0.356502503	2.48E-14	0.26394583	2.76E-08
LTBR	brown	0.272543344	9.23E-09	-0.466846494	1.16E-24
BDNF	brown	-0.287591809	1.24E-09	0.415446335	2.26E-19
RAMP3	brown	-0.157612461	0.001040548	0.437412404	1.60E-21
RUVBL2	brown	0.334189716	1.12E-12	-0.547910817	4.66E-35
TMEM138	brown	0.311490903	3.96E-11	-0.34462103	1.96E-13
CALCOCO1	brown	-0.284578381	1.87E-09	0.467751623	9.22E-25
KCNN3	brown	-0.324514198	5.30E-12	0.590569062	8.95E-42
TRIM3	brown	-0.123460595	0.010392412	0.404810495	2.19E-18
HLX	brown	-0.067711585	0.161028995	0.412904248	3.92E-19
ACTR5	brown	0.300504242	2.01E-10	-0.391760836	3.18E-17
WLS	brown	-0.235442836	7.91E-07	0.405860113	1.76E-18
POMGNT1	brown	0.24265296	3.52E-07	-0.361312873	1.05E-14
NLE1	brown	0.22026642	4.01E-06	-0.364288051	6.11E-15
AGTR1	brown	-0.472318029	2.81E-25	0.734259954	5.29E-74
LONRF2	brown	-0.372244552	1.40E-15	0.582445295	2.03E-40
RGS5	brown	-0.340221589	4.11E-13	0.660425653	3.25E-55
AFF3	brown	-0.546208394	8.26E-35	0.752651122	1.07E-79
PKD2	brown	-0.233789434	9.49E-07	0.600129508	2.02E-43
WBSCR17	brown	-0.476573047	9.12E-26	0.794384979	1.04E-94
POR	brown	0.210998576	1.02E-05	-0.357257618	2.17E-14
ANGPTL1	brown	-0.398101711	8.79E-18	0.815250787	1.37E-103
TMEM177	brown	0.307428774	7.28E-11	-0.390484685	4.10E-17
APEH	brown	0.196920783	3.92E-05	-0.334540877	1.05E-12
MEIS2	brown	-0.329130945	2.54E-12	0.565474566	1.05E-37
ENOX1	brown	-0.179389241	0.000184428	0.513723738	2.49E-30
ARHGAP10	brown	-0.305422159	9.79E-11	0.414627416	2.70E-19
FAXDC2	brown	-0.496453399	3.86E-28	0.769191723	2.88E-85
PMF1	brown	0.239263335	5.16E-07	-0.39611907	1.32E-17
MYH3	brown	-0.284947079	1.78E-09	0.568845083	3.12E-38
JTB	brown	0.343197564	2.49E-13	-0.415293738	2.34E-19
CHURC1	brown	-0.233308323	1.00E-06	0.445028103	2.64E-22
ENG	brown	-0.021059558	0.663215927	0.309203183	5.59E-11
RNASE4	brown	-0.431496233	6.29E-21	0.539273795	8.21E-34
TSPAN7	brown	-0.294738768	4.57E-10	0.430986931	7.07E-21
GYG1	brown	-0.203858403	2.05E-05	0.394556376	1.81E-17
GTF2E2	brown	0.163829897	0.000648604	-0.240498965	4.49E-07
FZR1	brown	0.188266785	8.57E-05	-0.34666323	1.38E-13
ARHGAP20	brown	-0.539417418	7.83E-34	0.87245608	3.57E-135
C3orf70	brown	-0.360261778	1.27E-14	0.645886645	3.99E-52
SYNGR2	brown	0.335073441	9.66E-13	-0.415980203	2.01E-19
ZSCAN18	brown	-0.167302507	0.000494451	0.253960209	9.36E-08
MYOZ1	brown	-0.03951696	0.413714082	0.243229537	3.29E-07
DIRAS1	brown	-0.239213028	5.19E-07	0.470149331	4.95E-25
SPRY4	brown	0.079459874	0.099862324	0.112982442	0.019101592

NHP2	brown	0.143040285	0.002950837	-0.366308028	4.22E-15
PDLIM3	brown	-0.376668883	6.07E-16	0.793111367	3.35E-94
DSTN	brown	-0.414510798	2.77E-19	0.59167271	5.81E-42
PPP1R16A	brown	0.310571133	4.55E-11	-0.53666114	1.92E-33
DACT2	brown	-0.11969478	0.013000553	0.185811561	0.000106337
WSCD1	brown	-0.097607569	0.04307576	0.352904532	4.68E-14
SLMAP	brown	-0.421249279	6.33E-20	0.718130087	2.19E-69
HIST3H2A	brown	0.351626736	5.85E-14	-0.40627818	1.61E-18
ZBTB4	brown	-0.35519698	3.12E-14	0.504487626	3.83E-29
ZNF423	brown	-0.180194367	0.000172302	0.367450828	3.42E-15
TUT1	brown	0.249740427	1.55E-07	-0.424803714	2.87E-20
CNTN1	brown	-0.371635697	1.57E-15	0.664949227	3.28E-56
SEMA6B	brown	-0.135024878	0.005037285	0.411509438	5.29E-19
CPT1A	brown	-0.12646012	0.008658617	0.220125543	4.07E-06
MRPL21	brown	0.168578791	0.000446918	-0.406308906	1.60E-18
UQCC2	brown	0.262903351	3.14E-08	-0.445383394	2.42E-22
MST1R	brown	0.108936238	0.023877084	-0.291133703	7.59E-10
C20orf194	brown	-0.274062801	7.58E-09	0.38364932	1.58E-16
NPTX1	brown	-0.212931323	8.44E-06	0.311937562	3.70E-11
SOX18	brown	-0.105561481	0.028617479	0.295552225	4.08E-10
APLNR	brown	-0.010339401	0.830715496	0.421955052	5.41E-20
COX19	brown	0.296882983	3.37E-10	-0.396261905	1.28E-17
VLDLR	brown	-0.169860527	0.000403488	0.361284584	1.05E-14
ASL	brown	0.217676745	5.23E-06	-0.29810541	2.83E-10
RANGAP1	brown	0.298534694	2.66E-10	-0.536050523	2.34E-33
LIFR	brown	-0.330441767	2.05E-12	0.570856241	1.51E-38
ERG	brown	-0.220373552	3.96E-06	0.60223759	8.62E-44
NACC2	brown	-0.414488455	2.78E-19	0.732590716	1.65E-73
IL17RD	brown	-0.206548075	1.58E-05	0.452489368	4.31E-23
PARVA	brown	-0.310083371	4.90E-11	0.673233159	4.41E-58
KLHL13	brown	-0.353522109	4.20E-14	0.494970397	5.88E-28
HSPA12A	brown	-0.342416661	2.84E-13	0.662463004	1.16E-55
GNA14	brown	-0.21347985	7.99E-06	0.391512985	3.34E-17
C1QTNF3	brown	-0.158007698	0.001010254	0.437531184	1.56E-21
PPP3CB	brown	-0.322131324	7.72E-12	0.555186507	3.90E-36
FYCO1	brown	-0.3639972	6.44E-15	0.628189808	1.38E-48
MCAT	brown	0.238575448	5.58E-07	-0.451206084	5.91E-23
TRIM63	brown	-0.285326433	1.69E-09	0.51470613	1.85E-30
PODN	brown	-0.324672313	5.17E-12	0.69146746	2.01E-62
RUNDC3B	brown	-0.418062579	1.28E-19	0.546043204	8.73E-35
SSTR1	brown	-0.322678497	7.08E-12	0.392628989	2.67E-17
GNAZ	brown	-0.336435783	7.71E-13	0.60428396	3.74E-44
PPP1R13L	brown	0.261118359	3.92E-08	-0.530632114	1.33E-32
SCN7A	brown	-0.564220553	1.64E-37	0.666521528	1.46E-56
AMOTL1	brown	-0.262529686	3.29E-08	0.52439409	9.49E-32
CADM3	brown	-0.473242586	2.20E-25	0.653374802	1.07E-53
CCDC22	brown	0.111095391	0.021214004	-0.302257864	1.56E-10
RNASEK	brown	0.191720658	6.30E-05	-0.285194152	1.72E-09
FZD4	brown	-0.118271684	0.014127165	0.385312385	1.14E-16
MRPL2	brown	0.272869604	8.85E-09	-0.448883971	1.04E-22
PKD1	brown	-0.355807813	2.80E-14	0.610782225	2.54E-45

PALLD	brown	-0.363502966	7.05E-15	0.744021613	5.77E-77
PSMG4	brown	0.244717974	2.77E-07	-0.342230148	2.93E-13
TMEM55A	brown	-0.244441367	2.86E-07	0.568109617	4.07E-38
KCNK6	brown	-0.149231001	0.001916315	0.182361107	0.000143275
PUSL1	brown	0.294956794	4.44E-10	-0.51984015	3.88E-31
PRKCA	brown	-0.15380994	0.001377884	0.331434174	1.75E-12
Clorf21	brown	-0.299639688	2.27E-10	0.300733479	1.94E-10
SPECC1L	brown	-0.077047019	0.110622236	0.350498813	7.12E-14
ATP6V0A1	brown	-0.036710827	0.447677919	0.217176642	5.50E-06
HMGCLL1	brown	-0.426537096	1.94E-20	0.385061142	1.20E-16
LRRN4CL	brown	-0.487754612	4.41E-27	0.72291322	1.01E-70
ZNF366	brown	-0.142236897	0.003117134	0.564373701	1.55E-37
VWA1	brown	-0.01998157	0.679473427	0.181988022	0.000147922
FAM110B	brown	-0.310925462	4.32E-11	0.662416479	1.19E-55
RP11-216L1	brown	-0.169183981	0.000425897	0.259534322	4.76E-08
VCL	brown	-0.305218198	1.01E-10	0.615162602	4.01E-46
TPSD1	brown	-0.35546885	2.98E-14	0.613030265	9.89E-46
ACKR1	brown	-0.375878335	7.06E-16	0.616828603	1.97E-46
DTWD1	brown	-0.202067497	2.43E-05	0.423422465	3.91E-20
MFAP4	brown	-0.391923028	3.08E-17	0.688219463	1.26E-61
TSPAN17	brown	0.275004161	6.70E-09	-0.335644054	8.79E-13
SMARCA4	brown	0.281299513	2.91E-09	-0.350838924	6.71E-14
MRPS34	brown	0.327839668	3.12E-12	-0.577921243	1.11E-39
EFHD2	brown	0.204878669	1.86E-05	-0.482948156	1.64E-26
PEBP4	brown	-0.170616038	0.000379764	0.331153875	1.83E-12
CYP7A1	brown	-0.098093926	0.04204207	0.223362954	2.90E-06
HLF	brown	-0.700995479	8.03E-65	0.869508252	3.39E-133
TIMM13	brown	0.287161331	1.31E-09	-0.507551275	1.56E-29
TPRA1	brown	0.321685786	8.28E-12	-0.43380988	3.69E-21
MEF2D	brown	-0.417193742	1.55E-19	0.653032226	1.27E-53
ERCC2	brown	0.247296004	2.06E-07	-0.301182045	1.82E-10
CCDC102B	brown	-0.075467618	0.118145868	0.443005876	4.27E-22
GJB6	brown	0.161651625	0.000766892	-0.332201736	1.54E-12
REEP2	brown	-0.258974968	5.10E-08	0.56936138	2.59E-38
VDAC1	brown	0.305861785	9.17E-11	-0.409509945	8.11E-19
CAND2	brown	-0.186576557	9.95E-05	0.431504532	6.28E-21
EMC4	brown	0.20046713	2.82E-05	-0.385382647	1.13E-16
ADRB3	brown	-0.5073951	1.63E-29	0.819294119	1.92E-105
RP11-903H1	brown	-0.451001793	6.21E-23	0.617271402	1.63E-46
RELL2	brown	0.280793749	3.12E-09	-0.325818469	4.31E-12
PTBP2	brown	-0.240108071	4.69E-07	0.464334537	2.22E-24
ALDH16A1	brown	0.257976746	5.76E-08	-0.389578801	4.92E-17
MYCT1	brown	-0.332389234	1.50E-12	0.684696866	8.97E-61
WFS1	brown	-0.163342347	0.000673507	0.207080717	1.50E-05
SHPK	brown	0.216692341	5.78E-06	-0.309124358	5.65E-11
KRT19	brown	0.200831783	2.73E-05	-0.470790085	4.19E-25
H1FNT	brown	-0.078125921	0.105703259	0.212164467	9.11E-06
MIF	brown	0.277000763	5.16E-09	-0.553131531	7.90E-36
MEIS1	brown	-0.380589501	2.86E-16	0.530728175	1.29E-32
RHBDD2	brown	0.190730921	6.89E-05	-0.29606162	3.79E-10
SYNJ2BP-CO	brown	-0.195738353	4.38E-05	0.258623689	5.32E-08

GPR4	brown	-0.023328111	0.629522141	0.314403808	2.55E-11
TMEM238	brown	0.255597645	7.69E-08	-0.439289181	1.03E-21
UNC93B1	brown	0.233035246	1.03E-06	-0.439856087	9.01E-22
NIT2	brown	0.339490235	4.64E-13	-0.503741013	4.76E-29
OLFM1	brown	-0.407086529	1.36E-18	0.616357466	2.41E-46
GLIPR1L2	brown	-0.32661435	3.80E-12	0.314275237	2.60E-11
SLC51B	brown	-0.401975027	3.95E-18	0.688067236	1.37E-61
NCAM1	brown	-0.478087475	6.09E-26	0.801313926	1.53E-97
MRPL32	brown	0.265396271	2.30E-08	-0.461531729	4.52E-24
LTBP4	brown	-0.438889757	1.13E-21	0.50341118	5.24E-29
DALRD3	brown	0.169371514	0.000419572	-0.224207558	2.66E-06
RP5-877J2.	brown	-0.265397422	2.30E-08	0.330774215	1.95E-12
ELANE	brown	-0.598273022	4.26E-43	0.553945177	5.98E-36
MPDU1	brown	0.2258626	2.23E-06	-0.357145506	2.21E-14
RPP21	brown	0.252717888	1.09E-07	-0.525688783	6.34E-32
TXN	brown	0.163182673	0.000681854	-0.380281308	3.04E-16
SMN1	brown	0.140557032	0.003492675	-0.329107936	2.55E-12
STXBP2	brown	0.366379012	4.16E-15	-0.645139973	5.68E-52
WISP3	brown	0.101998507	0.034477134	-0.186188733	0.000102894
NRTN	brown	-0.132494637	0.0059303	0.297865364	2.93E-10
NR4A1	brown	-0.501620515	8.80E-29	0.559727994	8.03E-37
GJB3	brown	0.124642457	0.009675551	-0.364466591	5.91E-15
P4HB	brown	0.38393487	1.50E-16	-0.370583642	1.91E-15
NDRG1	brown	0.060267414	0.212313968	-0.214979237	6.87E-06
TBCC	brown	0.174840442	0.000269359	-0.273917273	7.73E-09
OSTF1	brown	0.110754889	0.021616033	-0.278369738	4.30E-09
ADAM33	brown	-0.505012919	3.28E-29	0.804682138	5.87E-99
PLEKHG5	brown	0.167806334	0.000475152	-0.271703515	1.03E-08
ANKRD39	brown	0.21726278	5.45E-06	-0.354105692	3.79E-14
FGD5	brown	-0.129365088	0.007230043	0.293565892	5.40E-10
TMEM204	brown	-0.097254801	0.043838845	0.331881373	1.63E-12
MEF2C	brown	-0.365839131	4.60E-15	0.799024962	1.36E-96
RP9	brown	0.306038745	8.94E-11	-0.327370291	3.37E-12
AP000350.1	brown	0.120995075	0.012041182	-0.214608121	7.13E-06
SLC45A1	brown	-0.212677729	8.65E-06	0.437470528	1.58E-21
CKB	brown	-0.305795339	9.26E-11	0.33848528	5.49E-13
UCHL3	brown	0.229215798	1.56E-06	-0.479466522	4.21E-26
THBS3	brown	-0.051880024	0.283092348	0.236394774	7.12E-07
FGFBP2	brown	-0.131304093	0.00639773	0.213693742	7.82E-06
EXOC3L2	brown	0.011213748	0.81664392	0.141115242	0.003363562
MMP27	brown	-0.594315389	2.06E-42	0.538552104	1.04E-33
FKBPL	brown	0.35006181	7.68E-14	-0.485164522	8.99E-27
HTR1B	brown	-0.335944868	8.37E-13	0.590538926	9.05E-42
WDR49	brown	-0.192026729	6.13E-05	0.336902962	7.14E-13
ITGA8	brown	-0.574378619	4.14E-39	0.719969496	6.78E-70
PIP5K1B	brown	-0.155613612	0.001206997	0.359983796	1.33E-14
RHOB	brown	-0.404250266	2.46E-18	0.501306672	9.63E-29
TMC3	brown	-0.008671295	0.857708613	0.169739746	0.000407407
EIF4E3	brown	-0.283735185	2.10E-09	0.413772146	3.25E-19
EPHX1	brown	-0.186194129	0.000102845	0.21979821	4.21E-06
Clorf95	brown	-0.424259936	3.24E-20	0.736738686	9.63E-75

ZFP36	brown	-0.410945356	5.97E-19	0.405579994	1.86E-18
TTC28	brown	-0.236770343	6.83E-07	0.513024757	3.07E-30
MARC2	brown	-0.149797411	0.001840597	0.300210704	2.09E-10
TMEM223	brown	0.377253164	5.43E-16	-0.554150246	5.57E-36
MAP3K12	brown	-0.08035065	0.096106851	0.376157832	6.69E-16
HYAL1	brown	-0.18660173	9.92E-05	0.259335901	4.88E-08
AIF1L	brown	-0.142111031	0.003143946	0.210525574	1.07E-05
METTL24	brown	-0.519030678	4.97E-31	0.825235845	2.99E-108
TRAK2	brown	-0.261686374	3.65E-08	0.608993082	5.37E-45
NECAB1	brown	-0.434220225	3.36E-21	0.715702083	1.02E-68
CYP46A1	brown	-0.219077005	4.53E-06	0.505279879	3.04E-29
MARCKS	brown	0.177923811	0.000208575	-0.202312049	2.37E-05
SMYD5	brown	0.304091257	1.19E-10	-0.431425431	6.39E-21
TMC6	brown	0.377578976	5.11E-16	-0.450113904	7.71E-23
SLC01C1	brown	-0.12628053	0.008754671	0.491985705	1.36E-27
MRPL16	brown	0.214548755	7.18E-06	-0.43149467	6.29E-21
CSGALNACT1	brown	-0.439795829	9.14E-22	0.697155343	7.64E-64
RGMA	brown	-0.21503071	6.84E-06	0.386973784	8.24E-17
TSEN54	brown	0.352416952	5.09E-14	-0.553273331	7.53E-36
DHH	brown	-0.228924847	1.61E-06	0.612270397	1.36E-45
PNPLA7	brown	-0.312978604	3.16E-11	0.402299794	3.70E-18
MYL3	brown	-0.438743871	1.17E-21	0.582888034	1.72E-40
TGFBR3	brown	-0.342734877	2.69E-13	0.443113474	4.17E-22
SS18L2	brown	0.287062062	1.33E-09	-0.447164041	1.58E-22
SNX9	brown	-0.273371154	8.29E-09	0.587543284	2.89E-41
ST3GAL3	brown	-0.26513951	2.37E-08	0.511268885	5.18E-30
RCCD1	brown	0.308184385	6.50E-11	-0.426455328	1.98E-20
EPHA6	brown	-0.3522653	5.23E-14	0.498170432	2.37E-28
RNF115	brown	-0.153258737	0.001434383	0.473278359	2.18E-25
SOCS2	brown	-0.193648123	5.29E-05	0.269623376	1.34E-08
ZDHC12	brown	0.345886701	1.58E-13	-0.546456107	7.60E-35
LA16c-306E	brown	-0.211732995	9.51E-06	0.250848951	1.36E-07
DLL4	brown	0.00559898	0.907838097	0.286583179	1.42E-09
SMG9	brown	0.34009965	4.19E-13	-0.315614946	2.12E-11
NAP1L3	brown	-0.31240793	3.45E-11	0.711037101	1.87E-67
DAAM2	brown	-0.328549522	2.79E-12	0.763794205	2.12E-83
TRPC1	brown	-0.26302548	3.09E-08	0.555327887	3.71E-36
PHKG1	brown	-0.22082442	3.78E-06	0.620176299	4.66E-47
LSM8	brown	0.3140078	2.71E-11	-0.350012379	7.74E-14
DDIT4L	brown	-0.087656027	0.06938883	0.423100362	4.20E-20
ABCC9	brown	-0.370405655	1.98E-15	0.814567856	2.78E-103
NCAM2	brown	-0.089168756	0.064697633	0.305754474	9.32E-11
RASL12	brown	-0.431474787	6.32E-21	0.851982264	2.38E-122
IL1RL2	brown	0.140723221	0.003453774	-0.221981111	3.35E-06
PCP4	brown	-0.378340727	4.41E-16	0.727964506	3.68E-72
CDKL1	brown	-0.45769959	1.19E-23	0.507753338	1.47E-29
YDJC	brown	0.408136033	1.09E-18	-0.65052626	4.30E-53
GALNT14	brown	0.173981991	0.000289019	-0.329692899	2.32E-12
SPATA4	brown	-0.348205384	1.06E-13	0.513821545	2.41E-30
NTRK3	brown	-0.527611046	3.47E-32	0.495444503	5.14E-28
MRPS12	brown	0.31707367	1.69E-11	-0.525033943	7.78E-32

PENK	brown	-0.197723373	3.64E-05	0.405414985	1.93E-18
GRPEL1	brown	0.108974121	0.023827978	-0.372374129	1.37E-15
CSNK1G2	brown	0.34557842	1.66E-13	-0.472935561	2.39E-25
MAD2L1BP	brown	0.212727099	8.61E-06	-0.397854579	9.25E-18
TBX4	brown	-0.312902644	3.20E-11	0.701548477	5.79E-65
TKT	brown	0.125876972	0.008973986	-0.252972209	1.05E-07
TMEM41B	brown	0.201144429	2.65E-05	-0.313115589	3.10E-11
CCDC149	brown	-0.126571514	0.008599509	0.368796274	2.67E-15
CDH19	brown	-0.39297993	2.49E-17	0.497175285	3.15E-28
CCM2L	brown	-0.239370661	5.10E-07	0.521680006	2.20E-31
HAND1	brown	-0.398443238	8.20E-18	0.745610866	1.85E-77
SLC52A2	brown	0.465188617	1.78E-24	-0.579661454	5.80E-40
MICAL1	brown	-0.177134061	0.000222785	0.382933256	1.82E-16
SNX21	brown	-0.136169628	0.004674616	0.197511347	3.72E-05
SHFM1	brown	0.341278655	3.44E-13	-0.580089603	4.94E-40
FAM198A	brown	-0.100654694	0.036938251	0.331285441	1.79E-12
PDE2A	brown	-0.505927689	2.51E-29	0.758467122	1.32E-81
TMEM108	brown	-0.29273287	6.07E-10	0.599465161	2.64E-43
MYOM1	brown	-0.568645803	3.36E-38	0.860071397	3.58E-127
LCMT1	brown	0.223137552	2.97E-06	-0.312953762	3.18E-11
FERMT2	brown	-0.376564521	6.20E-16	0.842071564	8.06E-117
JAM3	brown	-0.420574862	7.35E-20	0.83673058	5.37E-114
PPP1R12B	brown	-0.499101492	1.82E-28	0.847997601	4.44E-120
SNRPF	brown	0.338511824	5.47E-13	-0.582679965	1.86E-40
FAM46A	brown	-0.298984535	2.50E-10	0.416987314	1.62E-19
WDR4	brown	0.351815416	5.66E-14	-0.387921533	6.83E-17
MICU1	brown	-0.052990302	0.27290281	0.265624658	2.23E-08
PTGES3L-AA	brown	-0.273648324	8.00E-09	0.324698673	5.15E-12
FAM134B	brown	-0.096211074	0.046163481	0.271713122	1.03E-08
EPAS1	brown	-0.077053394	0.110592649	0.21373008	7.79E-06
RGS9	brown	-0.299856233	2.20E-10	0.517807052	7.22E-31
CACNA1C	brown	-0.373043162	1.21E-15	0.857748923	9.32E-126
ANKRD29	brown	-0.311355063	4.04E-11	0.620095896	4.83E-47
TTL11	brown	-0.272383593	9.43E-09	0.479048297	4.71E-26
ATP6V0B	brown	0.359896149	1.35E-14	-0.455300415	2.15E-23
KIZ	brown	-0.25231919	1.14E-07	0.234529528	8.75E-07
ADRBK1	brown	0.193216575	5.51E-05	-0.416735979	1.71E-19
GSK3A	brown	0.263114384	3.06E-08	-0.37741661	5.27E-16
FAM109A	brown	0.264198745	2.67E-08	-0.282185666	2.59E-09
TPSB2	brown	-0.330788809	1.94E-12	0.603401819	5.37E-44
ZDHHC11B	brown	-0.315098217	2.29E-11	0.238764354	5.46E-07
CNFN	brown	0.096082766	0.046456266	-0.276188593	5.74E-09
VIT	brown	-0.588240357	2.21E-41	0.698906841	2.75E-64
PKIG	brown	-0.351498228	5.98E-14	0.70523049	6.42E-66
IMP3	brown	0.20692179	1.52E-05	-0.553743787	6.41E-36
LMAN2	brown	0.242219089	3.69E-07	-0.405546088	1.88E-18
HBB	brown	-0.210238637	1.10E-05	0.33215698	1.56E-12
MTMR14	brown	0.24562602	2.50E-07	-0.281674826	2.77E-09
TM4SF18	brown	-0.028910537	0.549918965	0.280906049	3.07E-09
GPR116	brown	-0.139330605	0.003792264	0.460737043	5.53E-24
CPA3	brown	-0.322924715	6.81E-12	0.69073468	3.05E-62

JADE1	brown	-0.203405278	2.14E-05	0.448413777	1.17E-22
CNGA3	brown	-0.37034336	2.00E-15	0.49089132	1.85E-27
TECPR2	brown	-0.238056841	5.91E-07	0.508440076	1.20E-29
ELOVL2	brown	-0.114511364	0.017526857	0.401224069	4.62E-18
EWSR1	brown	0.245278912	2.60E-07	-0.404933571	2.13E-18
TACR3	brown	-0.454566908	2.58E-23	0.275027945	6.68E-09
HUNK	brown	-0.165207844	0.00058276	0.353738992	4.04E-14
PYG01	brown	-0.202211966	2.39E-05	0.477487782	7.15E-26
MDFI	brown	0.203276193	2.16E-05	-0.3314129	1.76E-12
SMPD2	brown	0.216339314	5.99E-06	-0.457992445	1.10E-23
ABCB5	brown	-0.475887706	1.09E-25	0.62978848	6.75E-49
LTBP3	brown	-0.187682169	9.03E-05	0.400563644	5.30E-18
C2orf74	brown	-0.13126025	0.006415558	0.266003949	2.13E-08
ITPKB	brown	-0.427680247	1.50E-20	0.681952382	4.06E-60
PCDHB15	brown	-0.193766759	5.24E-05	0.335222729	9.42E-13
PPP1R3B	brown	-0.282589165	2.45E-09	0.508163838	1.30E-29
HS1BP3	brown	-0.046348644	0.3376476	0.153643007	0.001394775
PHACTR1	brown	-0.211949301	9.30E-06	0.475696566	1.15E-25
CSK	brown	0.288361474	1.11E-09	-0.363922685	6.53E-15
ITGA1	brown	-0.274406115	7.25E-09	0.741205726	4.26E-76
FAM149A	brown	-0.331340789	1.78E-12	0.441163105	6.62E-22
PCED1A	brown	0.251512604	1.25E-07	-0.34630572	1.47E-13
PER3	brown	-0.287923201	1.18E-09	0.405000571	2.10E-18
GABRG1	brown	-0.269114494	1.44E-08	0.221256864	3.62E-06
RDH16	brown	0.12904532	0.007376241	-0.189204116	7.89E-05
BOC	brown	-0.361988095	9.27E-15	0.841631113	1.39E-116
DEF6	brown	0.18545727	0.00010967	-0.390588117	4.02E-17
CDCP1	brown	0.24261406	3.53E-07	-0.347728209	1.15E-13
ARHGEF37	brown	-0.283566118	2.15E-09	0.41173698	5.04E-19
SCUBE1	brown	-0.389639418	4.86E-17	0.304109049	1.19E-10
TRIM29	brown	0.081179334	0.092715106	-0.371836944	1.51E-15
TEK	brown	-0.251056043	1.32E-07	0.725244968	2.21E-71
OSTN	brown	-0.381095234	2.60E-16	0.55257113	9.58E-36
TNRC6C	brown	-0.248933876	1.70E-07	0.527569408	3.51E-32
PRRG4	brown	0.095270813	0.048345395	-0.314908342	2.36E-11
TAGLN	brown	-0.340865871	3.69E-13	0.696757553	9.63E-64
HDHD1	brown	0.167182037	0.000499173	-0.22409143	2.69E-06
SAFB	brown	0.225298071	2.37E-06	-0.429667335	9.55E-21
AKT1S1	brown	0.277710058	4.70E-09	-0.416888863	1.65E-19
PRR7	brown	0.219071526	4.53E-06	-0.387119455	8.01E-17
BUD31	brown	0.289611978	9.38E-10	-0.433232852	4.22E-21
PPP1R15A	brown	-0.267724411	1.71E-08	0.141185761	0.003347564
CHMP7	brown	-0.138981559	0.003881683	0.222993884	3.02E-06
EOGT	brown	-0.171482362	0.000354161	0.334788425	1.01E-12
NES	brown	-0.234933131	8.37E-07	0.497252365	3.08E-28
EML1	brown	-0.323393872	6.33E-12	0.717534936	3.20E-69
ABCA7	brown	0.16985589	0.000403638	-0.233727782	9.55E-07
PABPN1	brown	0.334375956	1.08E-12	-0.511226518	5.25E-30
TMEM101	brown	0.185644707	0.000107895	-0.269759945	1.32E-08
BNC2	brown	-0.345720595	1.62E-13	0.811866614	4.47E-102
SEMA3D	brown	-0.152500502	0.001515581	0.284597883	1.87E-09

SSBP3	brown	-0.140150744	0.003589457	0.190654225	6.93E-05
F12	brown	0.153051653	0.001456153	-0.387217767	7.85E-17
PPP1R14B	brown	0.424093381	3.36E-20	-0.621683305	2.42E-47
EFHC2	brown	-0.194755947	4.79E-05	0.249012124	1.68E-07
HMGA1	brown	0.324533654	5.29E-12	-0.501983874	7.92E-29
ARHGAP1	brown	-0.249113002	1.66E-07	0.53896535	9.08E-34
CCL14	brown	-0.535583359	2.73E-33	0.687581052	1.80E-61
MRGBP	brown	0.387214101	7.86E-17	-0.487414266	4.85E-27
SEMA3G	brown	-0.34868386	9.74E-14	0.644991369	6.10E-52
GNE	brown	-0.110457613	0.021972412	0.254258302	9.03E-08
COX16	brown	0.274344811	7.31E-09	-0.478436405	5.55E-26
MPDZ	brown	-0.270517806	1.20E-08	0.633109547	1.51E-49
POLR3K	brown	0.259385422	4.85E-08	-0.414670522	2.68E-19
PSD4	brown	0.145933597	0.002416621	-0.310353968	4.70E-11
PID1	brown	-0.512768424	3.31E-30	0.734471444	4.58E-74
POPDC2	brown	-0.405931179	1.73E-18	0.826184464	1.04E-108
PPCS	brown	0.183791984	0.000126695	-0.236320543	7.18E-07
DOC2B	brown	-0.130360275	0.006791483	0.288171878	1.14E-09
TARSL2	brown	-0.287758763	1.21E-09	0.444679762	2.87E-22
LATS2	brown	-0.306629385	8.19E-11	0.673195186	4.50E-58
HIGD1B	brown	-0.094345571	0.050576068	0.129333224	0.007244494
USP51	brown	-0.182165491	0.000145694	0.460740935	5.52E-24
KRT17	brown	0.129050054	0.007374057	-0.357838698	1.95E-14
ATF3	brown	-0.365710055	4.71E-15	0.340185279	4.13E-13
DUS1L	brown	0.413161376	3.71E-19	-0.655686274	3.45E-54
MYBBP1A	brown	0.254608075	8.66E-08	-0.377027063	5.67E-16
TNS1	brown	-0.451727455	5.20E-23	0.873650957	5.45E-136
POLR1C	brown	0.278940042	3.99E-09	-0.566613361	6.98E-38
GFRA3	brown	-0.323915814	5.83E-12	0.388735111	5.81E-17
SORCS1	brown	-0.659788703	4.47E-55	0.583469053	1.38E-40
APOD	brown	-0.229138164	1.57E-06	0.446947623	1.66E-22
IL6ST	brown	-0.328649968	2.74E-12	0.715205641	1.39E-68
SBSPON	brown	-0.369189904	2.48E-15	0.749788011	8.85E-79
C17orf96	brown	0.183610442	0.000128694	-0.385164869	1.18E-16
C2orf40	brown	-0.592882181	3.62E-42	0.839315975	2.38E-115
MYPOP	brown	0.333152661	1.32E-12	-0.412462622	4.31E-19
C3orf36	brown	0.00464106	0.923552784	0.234757909	8.53E-07
PLN	brown	-0.390235935	4.31E-17	0.804772429	5.37E-99
NDNF	brown	-0.390976328	3.72E-17	0.395659227	1.45E-17
ETHE1	brown	0.133028582	0.005730809	-0.278980828	3.97E-09
TMEM132C	brown	-0.629545057	7.53E-49	0.512756607	3.32E-30
WFDC1	brown	-0.453800446	3.12E-23	0.613483908	8.17E-46
MRPS7	brown	0.262735306	3.21E-08	-0.446225331	1.98E-22
EDA	brown	-0.167672207	0.00048022	0.241343655	4.08E-07
POLB	brown	0.20360915	2.10E-05	-0.327433361	3.33E-12
SH2D3C	brown	-0.112243384	0.019906024	0.473002543	2.35E-25
LIN7A	brown	-0.056864635	0.239319236	0.286193841	1.50E-09
GABRD	brown	0.17433576	0.00028076	-0.004073421	0.932879351
ABHD4	brown	0.007816804	0.871602473	0.191733298	6.29E-05
PNKP	brown	0.34875634	9.62E-14	-0.511284853	5.16E-30
FAH	brown	0.123146082	0.010590946	-0.255601745	7.68E-08

COMMD5	brown	0.308284048	6.41E-11	-0.366875407	3.80E-15
HK2	brown	0.172401063	0.000328773	-0.367772462	3.22E-15
ZBTB80S	brown	0.259044542	5.06E-08	-0.314178961	2.64E-11
GPR133	brown	-0.562491081	3.03E-37	0.871517712	1.54E-134
CHCHD7	brown	0.131258706	0.006416187	-0.232257625	1.12E-06
LURAP1L	brown	-0.106264548	0.027568232	0.258214327	5.60E-08
NAP1L5	brown	-0.362611621	8.28E-15	0.458614897	9.43E-24
GHR	brown	-0.392629937	2.67E-17	0.664740112	3.65E-56
EFNA4	brown	0.386073887	9.84E-17	-0.501153972	1.01E-28
ASB5	brown	-0.520745391	2.94E-31	0.815733548	8.25E-104
CAPG	brown	0.234415912	8.86E-07	-0.259858126	4.58E-08
GPR155	brown	-0.24022625	4.63E-07	0.543610399	1.96E-34
HAND2	brown	-0.451715031	5.21E-23	0.811205082	8.78E-102
KLHDC1	brown	-0.33007341	2.18E-12	0.542351292	2.98E-34
PLCXD3	brown	-0.02225958	0.645302415	0.186129945	0.000103424
SERPINI2	brown	-0.112184064	0.019971851	0.223874447	2.75E-06
SHISA5	brown	0.198268001	3.46E-05	-0.319126686	1.23E-11
GNG11	brown	-0.350336499	7.32E-14	0.660789669	2.71E-55
ACR	brown	-0.178900481	0.000192174	0.330650592	1.99E-12
TNXB	brown	-0.605087371	2.69E-44	0.815845196	7.34E-104
CTU1	brown	0.289470104	9.56E-10	-0.455504547	2.05E-23
RAMP2	brown	-0.159800279	0.000882799	0.395938466	1.37E-17
SMTN	brown	-0.465225112	1.77E-24	0.702745857	2.84E-65
S100A2	brown	0.074847277	0.121208084	-0.32879199	2.68E-12
MAP1A	brown	-0.390272937	4.28E-17	0.839984775	1.05E-115
COQ3	brown	0.13087352	0.00657475	-0.352374393	5.13E-14
NXPH3	brown	-0.42173926	5.68E-20	0.728907373	1.96E-72
CNPY2	brown	0.357992381	1.90E-14	-0.484888982	9.69E-27
ADAMTS8	brown	-0.480773506	2.96E-26	0.77921424	7.12E-89
GJB5	brown	0.072210928	0.134916746	-0.380661713	2.82E-16
CNTN4	brown	-0.38109635	2.60E-16	0.590862847	7.98E-42
MMAB	brown	0.164188846	0.000630818	-0.350556382	7.04E-14
PRCD	brown	-0.241636786	3.95E-07	0.345451172	1.70E-13
PBX3	brown	-0.186776248	9.77E-05	0.518357526	6.11E-31
RCE1	brown	0.265372747	2.31E-08	-0.450847331	6.45E-23
DMPK	brown	-0.33183313	1.64E-12	0.496856289	3.45E-28
C2orf71	brown	-0.235181463	8.14E-07	0.247974516	1.90E-07
C15orf61	brown	0.227929639	1.79E-06	-0.300510343	2.00E-10
NRIP2	brown	-0.239539727	5.01E-07	0.484182196	1.18E-26
CRY2	brown	-0.484896744	9.67E-27	0.65107184	3.30E-53
ARHGEF35	brown	0.156512276	0.001129343	-0.232725931	1.07E-06
TACSTD2	brown	0.224681597	2.53E-06	-0.475594908	1.18E-25
MMACHC	brown	0.288020223	1.17E-09	-0.35095179	6.58E-14
SORBS1	brown	-0.445600009	2.30E-22	0.858238972	4.71E-126
AGA	brown	0.137858371	0.004182522	-0.186349274	0.00010146
ABCA3	brown	-0.095789845	0.047130523	0.351788226	5.68E-14
SLC12A9	brown	0.302612985	1.48E-10	-0.371523653	1.60E-15
C10orf32	brown	-0.219742578	4.23E-06	0.32169138	8.27E-12
ERP29	brown	0.205899187	1.68E-05	-0.316255888	1.92E-11
PSENFEN	brown	0.275640281	6.17E-09	-0.447440384	1.48E-22
LY75	brown	0.100041097	0.038110676	-0.225278825	2.37E-06

STARD10	brown	0.207483397	1.44E-05	-0.468264965	8.07E-25
NCLN	brown	0.350661773	6.92E-14	-0.509412066	9.00E-30
ADAMTS5	brown	-0.323395168	6.33E-12	0.607757361	8.96E-45
BIK	brown	0.117791128	0.014526538	-0.250825728	1.36E-07
SFRP5	brown	-0.292615608	6.17E-10	0.476118073	1.03E-25
PRSS35	brown	-0.283635599	2.13E-09	0.649138516	8.40E-53
MYRIP	brown	-0.387393343	7.58E-17	0.526839708	4.42E-32
TPM2	brown	-0.321449886	8.59E-12	0.647663873	1.71E-52
IL17D	brown	-0.168602299	0.000446084	0.295210759	4.28E-10
GRB10	brown	-0.220796417	3.79E-06	0.344026477	2.16E-13
NACC1	brown	0.284855321	1.80E-09	-0.511468848	4.88E-30
FOXP2	brown	-0.453506159	3.36E-23	0.713050059	5.36E-68
CYB561D2	brown	0.259841475	4.59E-08	-0.315900235	2.03E-11
DIO3	brown	-0.181137125	0.000159053	0.423496378	3.84E-20
GPFR1	brown	-0.340682848	3.80E-13	0.593297442	3.07E-42
RERGL	brown	-0.572736228	7.57E-39	0.610322464	3.08E-45
FLNA	brown	-0.320701659	9.65E-12	0.664501052	4.12E-56
DIP2C	brown	-0.234598495	8.68E-07	0.517512088	7.90E-31
P2RY2	brown	0.147552273	0.002157781	-0.294024248	5.06E-10
GNA15	brown	0.135539531	0.004871212	-0.414860095	2.57E-19
FILIP1L	brown	-0.380028465	3.19E-16	0.777102095	4.25E-88
SNX29	brown	-0.136839174	0.004473582	0.496781807	3.52E-28
CCDC27	brown	-0.402917263	3.25E-18	0.488885404	3.23E-27
NUDT16	brown	-0.126002006	0.008905519	0.272795491	8.94E-09
NMUR1	brown	-0.289105595	1.01E-09	0.486449527	6.32E-27
MRPS26	brown	0.345732293	1.62E-13	-0.548704388	3.57E-35
GALNT3	brown	0.200393141	2.84E-05	-0.31054925	4.57E-11
MUSTN1	brown	-0.322570686	7.20E-12	0.430161394	8.54E-21
PHF21A	brown	-0.137669235	0.004235206	0.384655117	1.30E-16
ACOT8	brown	0.263585383	2.88E-08	-0.382935677	1.82E-16
NFIA	brown	-0.380088449	3.15E-16	0.545748356	9.63E-35
TBXA2R	brown	-0.081367938	0.091956698	0.418862528	1.07E-19
TMEM161A	brown	0.313498741	2.92E-11	-0.481454429	2.47E-26
CIDEC	brown	-0.220012628	4.11E-06	0.475005131	1.38E-25
TTL12	brown	0.158538481	0.000970849	-0.340198412	4.13E-13
ST6GALNAC3	brown	-0.249297856	1.63E-07	0.511942146	4.24E-30
C14orf180	brown	-0.163781026	0.000651061	0.363988038	6.45E-15
MGARP	brown	-0.317473113	1.59E-11	0.55638221	2.58E-36
TXNL4A	brown	0.22599923	2.20E-06	-0.355783742	2.82E-14
TSPO	brown	0.179226491	0.000186974	-0.495028416	5.79E-28
BAHCC1	brown	-0.077435778	0.108829433	0.266210588	2.07E-08
ABT1	brown	0.277873851	4.60E-09	-0.484251117	1.15E-26
PSMG3	brown	0.449623762	8.69E-23	-0.567917723	4.36E-38
CLU	brown	-0.259335713	4.88E-08	0.410737283	6.24E-19
AHDC1	brown	-0.156078676	0.001166217	0.177220269	0.000221191
FRMD8	brown	0.193455626	5.39E-05	-0.330439698	2.06E-12
ARPC3	brown	0.34850079	1.01E-13	-0.555041645	4.10E-36
PFDN4	brown	0.275554638	6.24E-09	-0.430935065	7.15E-21
WFDC10B	brown	0.018230923	0.70619191	0.167438605	0.000489167
RGMB	brown	-0.114049735	0.017989915	0.262474974	3.31E-08
CTIF	brown	-0.235759418	7.64E-07	0.514587314	1.92E-30

KY	brown	-0.524257937	9.90E-32	0.661013055	2.42E-55
TRNAU1AP	brown	0.205224808	1.79E-05	-0.300256829	2.08E-10
COL6A5	brown	-0.219547652	4.32E-06	0.10044645	0.037332673
ADCK3	brown	-0.14638745	0.002341328	0.26424221	2.66E-08
COX7A1	brown	-0.417552609	1.43E-19	0.699220877	2.28E-64
CABLES1	brown	-0.101683701	0.035040799	0.186311846	0.000101793
SAMD1	brown	0.33974421	4.45E-13	-0.468189818	8.23E-25
STAB2	brown	-0.379198921	3.74E-16	0.634574949	7.75E-50
CCDC137	brown	0.405277255	1.98E-18	-0.566826005	6.47E-38
CPEB1	brown	-0.560348284	6.46E-37	0.816979061	2.24E-104
SLIT3	brown	-0.48439477	1.11E-26	0.646700227	2.70E-52
SFRP1	brown	-0.375583875	7.46E-16	0.658713948	7.66E-55
KCNAB1	brown	-0.336243099	7.96E-13	0.618328583	1.04E-46
PKDCC	brown	-0.331098985	1.85E-12	0.727152704	6.30E-72
CCDC74A	brown	-0.025338506	0.600288893	0.208527856	1.30E-05
FAM50B	brown	-0.218879363	4.62E-06	0.274613537	7.06E-09
HTR2B	brown	-0.164708503	0.000605868	0.467991053	8.66E-25
RNF150	brown	-0.476643532	8.96E-26	0.800702746	2.75E-97
TMEM8B	brown	-0.275612103	6.19E-09	0.282750614	2.40E-09
INO80C	brown	0.166622582	0.000521652	-0.416416637	1.83E-19
SSPN	brown	-0.349137508	9.01E-14	0.57995849	5.19E-40
OTC	brown	-0.313060273	3.13E-11	0.470993969	3.97E-25
HBD	brown	0.014232386	0.768540232	0.16036344	0.000845933
COQ4	brown	0.206030354	1.66E-05	-0.493016657	1.02E-27
SF3A2	brown	0.275304091	6.45E-09	-0.415549814	2.21E-19
TOP1MT	brown	0.20031876	2.86E-05	-0.411601515	5.19E-19
R3HDM4	brown	0.159414051	0.000908934	-0.378436237	4.33E-16
BLOC1S4	brown	0.262299166	3.38E-08	-0.426547428	1.94E-20
FAM229B	brown	-0.233818554	9.46E-07	0.411774571	5.00E-19
OGN	brown	-0.560890738	5.34E-37	0.850222191	2.44E-121
MOGS	brown	0.485860603	7.43E-27	-0.589311213	1.46E-41
SPSB2	brown	0.253037425	1.05E-07	-0.324842386	5.03E-12
OSBPL10	brown	-0.341631982	3.24E-13	0.647808376	1.59E-52
F8	brown	-0.351075237	6.44E-14	0.68586521	4.69E-61
TLE4	brown	-0.245338751	2.58E-07	0.330025641	2.20E-12
RRP1	brown	0.295883772	3.89E-10	-0.522790851	1.56E-31
SAMD11	brown	-0.191183397	6.61E-05	0.29216626	6.57E-10
GOT1L1	brown	-0.090490056	0.060816444	0.214757353	7.03E-06
PFDN6	brown	0.364590444	5.78E-15	-0.58935672	1.43E-41
C4B	brown	-0.197930501	3.57E-05	0.633182932	1.46E-49
ADCYAP1	brown	-0.357917348	1.93E-14	0.62343724	1.13E-47
APRT	brown	0.272810503	8.92E-09	-0.524314409	9.73E-32
FAM131C	brown	0.137747058	0.004213456	-0.250607787	1.40E-07
CTD-2369P2	brown	0.17203047	0.000338803	-0.220268662	4.01E-06
MREG	brown	0.262855809	3.16E-08	-0.353548195	4.18E-14
ODF3L1	brown	-0.481355645	2.53E-26	0.351190438	6.31E-14
ARF5	brown	0.278417602	4.28E-09	-0.513761321	2.46E-30
ARL14EP	brown	-0.161383917	0.000782733	0.318533515	1.35E-11
GPX3	brown	-0.241704435	3.92E-07	0.442792976	4.50E-22
RAB23	brown	-0.360624683	1.19E-14	0.797536132	5.53E-96
RASD1	brown	-0.306367423	8.51E-11	0.395606805	1.46E-17

SH3BGRL	brown	-0.261238807	3.86E-08	0.512447358	3.65E-30
SSUH2	brown	-0.071152515	0.140744942	0.272118767	9.76E-09
NSDHL	brown	0.255354962	7.92E-08	-0.474820941	1.45E-25
PIEZ02	brown	-0.174109063	0.000286026	0.50283061	6.20E-29
KLHL38	brown	-0.176573407	0.000233418	0.58143366	2.98E-40
MRPL17	brown	0.357631032	2.03E-14	-0.501303142	9.64E-29
CWC15	brown	0.232299835	1.12E-06	-0.394107267	1.98E-17
HPSE2	brown	-0.464983242	1.88E-24	0.816185029	5.15E-104
GPBAR1	brown	-0.371996215	1.47E-15	0.680646821	8.28E-60
LHX6	brown	-0.125773664	0.009030909	0.431966018	5.65E-21
REEP1	brown	-0.447294125	1.53E-22	0.723329232	7.74E-71
TMEM100	brown	-0.454118289	2.89E-23	0.750590232	4.91E-79
MTFP1	brown	0.274172357	7.47E-09	-0.472553671	2.64E-25
SEZ6L2	brown	0.16714679	0.000500562	-0.17654151	0.000234037
IPO4	brown	0.246939271	2.15E-07	-0.384866425	1.25E-16
RFTN2	brown	-0.264592486	2.54E-08	0.628953088	9.82E-49
RPS6KA1	brown	0.297542317	3.07E-10	-0.439572285	9.64E-22
PIPOX	brown	-0.25630454	7.06E-08	0.4576448	1.20E-23
HMCN2	brown	-0.503627248	4.92E-29	0.767861734	8.39E-85
ANO5	brown	-0.336439534	7.71E-13	0.575901218	2.36E-39
SMAD9	brown	-0.281308815	2.91E-09	0.463741948	2.58E-24
CCDC58	brown	0.396272265	1.28E-17	-0.632340913	2.14E-49
CYP21A2	brown	-0.142548707	0.003051606	0.501506388	9.09E-29
MEX3D	brown	0.278007184	4.52E-09	-0.336487539	7.65E-13
LETM1	brown	0.229022389	1.59E-06	-0.409939924	7.40E-19
TSC22D1	brown	-0.367557481	3.35E-15	0.504991492	3.31E-29
GJC2	brown	-0.383635009	1.59E-16	0.558908749	1.07E-36
CLEC4F	brown	-0.132083566	0.006088109	0.218330984	4.89E-06
CYB561	brown	0.39308334	2.44E-17	-0.483845466	1.29E-26
MRPL48	brown	0.245408128	2.56E-07	-0.458076407	1.08E-23
NOC2L	brown	0.28174987	2.74E-09	-0.478145737	6.00E-26
CEP131	brown	0.328697818	2.72E-12	-0.403818031	2.69E-18
CYB5R2	brown	0.191958739	6.17E-05	-0.388435988	6.17E-17
TBX20	brown	-0.457911883	1.12E-23	0.705071322	7.06E-66
LGI1	brown	-0.346033965	1.54E-13	0.338793089	5.22E-13
P2RY14	brown	-0.480377791	3.30E-26	0.804367377	7.98E-99
MMRN1	brown	-0.434227763	3.35E-21	0.705879682	4.34E-66
C19orf52	brown	0.303984988	1.21E-10	-0.349329176	8.72E-14
SLC1A5	brown	0.090293341	0.061381794	-0.280116971	3.41E-09
TAL1	brown	-0.176057813	0.000243613	0.452969095	3.83E-23
NR4A2	brown	-0.454749447	2.47E-23	0.405517271	1.89E-18
FOXJ2	brown	-0.137874791	0.004177976	0.367134624	3.62E-15
RYR3	brown	-0.57844755	9.15E-40	0.723551226	6.70E-71
GPR112	brown	-0.592692556	3.90E-42	0.506582481	2.07E-29
ITPA	brown	0.358986748	1.59E-14	-0.516111103	1.21E-30
GFRA2	brown	-0.393325954	2.32E-17	0.663799906	5.89E-56
GATA1	brown	-0.276874468	5.24E-09	0.48082481	2.92E-26
FUNDC1	brown	0.205205185	1.80E-05	-0.375353312	7.80E-16
STK11IP	brown	0.15090302	0.001700634	-0.2220046	3.35E-06
APITD1	brown	0.297657308	3.02E-10	-0.441983068	5.45E-22
GYPE	brown	-0.293495714	5.45E-10	0.616674451	2.10E-46

NCS1	brown	-0.31343566	2.95E-11	0.471910166	3.12E-25
IGSF9B	brown	-0.479127731	4.61E-26	0.716431915	6.44E-69
IRS2	brown	-0.085283498	0.077303947	0.334947739	9.86E-13
CTSF	brown	-0.217419328	5.37E-06	0.369285442	2.43E-15
AKAP2	brown	-0.396365995	1.25E-17	0.693567432	6.07E-63
ITGB3	brown	-0.290468148	8.33E-10	0.664159647	4.90E-56
LMOD1	brown	-0.454570491	2.58E-23	0.817005595	2.17E-104
ADCY9	brown	-0.284007504	2.02E-09	0.607847578	8.63E-45
C17orf70	brown	0.312886827	3.21E-11	-0.406215176	1.63E-18
AOC3	brown	-0.429424958	1.01E-20	0.781850589	7.45E-90
ESD	brown	-0.167730669	0.000478005	0.313734079	2.82E-11
PCOLCE2	brown	-0.493541035	8.80E-28	0.6452548	5.38E-52
TIE1	brown	-0.189259687	7.85E-05	0.600691993	1.61E-43
SOD3	brown	-0.293465028	5.48E-10	0.592184754	4.76E-42
CLEC1A	brown	-0.167829045	0.000474299	0.413779327	3.24E-19
STARD8	brown	-0.280635285	3.18E-09	0.744619221	3.76E-77
ZNF853	brown	-0.167347873	0.000492684	0.283219691	2.25E-09
ZHX1-C8orf	brown	0.291460265	7.25E-10	-0.375415255	7.71E-16
SPINT1	brown	0.338769705	5.24E-13	-0.510890697	5.80E-30
FAM102A	brown	-0.194371722	4.96E-05	0.23526697	8.06E-07
PDCD5	brown	0.332058955	1.58E-12	-0.443242987	4.04E-22
CYSRT1	brown	0.065440273	0.175576731	-0.25569454	7.60E-08
MAPT	brown	-0.306055178	8.92E-11	0.46942172	5.98E-25
GLP2R	brown	-0.620788852	3.58E-47	0.79321436	3.05E-94
TSC22D4	brown	0.242050654	3.77E-07	-0.366169528	4.33E-15
FZD7	brown	-0.351119836	6.39E-14	0.573356205	6.03E-39
SLC35C2	brown	0.346817183	1.34E-13	-0.472056851	3.01E-25
CPED1	brown	-0.520938797	2.77E-31	0.847134753	1.35E-119
TPSAB1	brown	-0.345665624	1.64E-13	0.612922006	1.04E-45
SELP	brown	-0.269329446	1.40E-08	0.535907726	2.45E-33
OCIAD2	brown	0.360542464	1.20E-14	-0.61795163	1.22E-46
BOLA1	brown	0.259203437	4.96E-08	-0.313836922	2.78E-11
ST8SIA6	brown	-0.11855167	0.013898957	0.324165103	5.60E-12
FAM83G	brown	0.13534931	0.004932011	-0.309667524	5.21E-11
POP7	brown	0.405494019	1.90E-18	-0.585314965	6.81E-41
FBXW9	brown	0.367086629	3.66E-15	-0.470614288	4.38E-25
FOXF1	brown	-0.483210586	1.53E-26	0.751292932	2.92E-79
ATPAF2	brown	0.169105991	0.000428554	-0.270603772	1.19E-08
DUSP19	brown	-0.238592389	5.57E-07	0.404741481	2.22E-18
CNDP2	brown	0.166411466	0.000530376	-0.245558743	2.52E-07

MEgreen	MEgreen	MEyellow	MEyellow	MEagenta
-0.322832941	6.91E-12	-0.120848392	0.012146183	0.068486495
-0.271229496	1.09E-08	-0.307545312	7.15E-11	0.009240594
-0.216474287	5.91E-06	-0.038112094	0.430524084	0.052456588
-0.009434212	0.845340596	-0.012941243	0.789018488	-0.021921574
0.211414587	9.81E-06	0.094356353	0.050549588	0.01463407
-0.240835349	4.32E-07	-0.114782222	0.017260037	0.018677967
0.046333324	0.337807485	0.123319487	0.010481073	-0.023764898
-0.188158928	8.65E-05	-0.0017816	0.970615352	0.096179583
-0.252683734	1.09E-07	-0.229059707	1.59E-06	-0.02433345
0.07625775	0.114333469	-0.050597557	0.295178096	0.056420876
0.229897272	1.45E-06	0.125558686	0.009150395	-0.053942549
-0.128704793	0.007534829	-0.164545371	0.0006136	-0.102486411
-0.287925166	1.18E-09	-0.065396247	0.175868066	0.122492472
0.710493101	2.61E-67	0.413748115	3.27E-19	-0.081699723
-0.232095006	1.14E-06	-0.251384854	1.27E-07	0.017726118
-0.13142108	0.006350378	-0.154048583	0.001354064	0.072756592
-0.010506475	0.828022317	0.155432424	0.001223237	-0.03657866
0.493113027	9.93E-28	0.217649134	5.24E-06	-0.04684731
-0.502767431	6.31E-29	-0.311330595	4.06E-11	0.173952563
0.445666179	2.26E-22	0.184141504	0.000122928	-0.023938347
-0.152509793	0.001514562	-0.196614013	4.04E-05	0.066671613
0.222412081	3.21E-06	0.064805325	0.1798132	0.009887261
0.504984068	3.31E-29	0.299317204	2.38E-10	-0.025735992
0.228620467	1.66E-06	0.156416366	0.001137406	0.022000845
0.482998343	1.62E-26	0.433291471	4.16E-21	-0.043627965
-0.348547047	9.98E-14	-0.218759105	4.68E-06	0.045410573
-0.119270535	0.013327823	-0.033071911	0.493984889	0.033275143
-0.230864229	1.31E-06	-0.183571666	0.000129125	0.058175495
-0.321409354	8.64E-12	-0.134644319	0.00516335	0.090609735
0.153676385	0.001391383	0.082188696	0.088713959	0.035372602
-0.240101562	4.70E-07	-0.188704918	8.25E-05	-0.038907097
-0.298010983	2.87E-10	-0.259389317	4.85E-08	0.0289364
0.28524579	1.71E-09	0.277632441	4.75E-09	0.006706751
-0.244432689	2.87E-07	-0.114013479	0.018026731	-0.016488578
-0.295853503	3.91E-10	-0.119804016	0.012917441	0.029332175
-0.016607626	0.731294333	-0.147787111	0.002122408	0.139718233
-0.082355009	0.088068196	0.019328313	0.689398791	0.024414191
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0.248141014	1.86E-07	0.095231532	0.048438395	-0.002567901
0.046716998	0.333817981	-0.094669026	0.049786673	0.081819754
-0.119777346	0.012937689	-0.04919726	0.308762112	-0.090022227
0.357900817	1.93E-14	0.235522113	7.84E-07	-0.000657491
0.66381447	5.85E-56	0.473443073	2.09E-25	-0.061294703
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0.295650466	4.02E-10	0.193506602	5.36E-05	0.011171559
0.340787033	3.74E-13	0.157095653	0.001081425	0.060547204
0.054696232	0.257739119	0.039577274	0.413001166	0.130341183
0.532189386	8.11E-33	0.394055246	2.00E-17	0.087722367

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0.424173458	3.30E-20	0.296264089	3.69E-10	-0.021506835
-0.258163886	5.63E-08	-0.046536212	0.335694034	0.097174831
-0.478972137	4.81E-26	-0.35566843	2.87E-14	-0.046490774
0.195969055	4.28E-05	0.019043664	0.693740488	0.001007067
0.194563391	4.87E-05	0.166880447	0.000511176	0.085018743
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0.279234029	3.84E-09	0.082576258	0.087214988	0.084208678
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0.614235946	5.94E-46	0.360918243	1.13E-14	-0.038588255
0.59858711	3.76E-43	0.394790594	1.73E-17	-0.104867465
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0.330821963	1.93E-12	0.189117864	7.95E-05	0.022035656
0.332646229	1.44E-12	0.073121742	0.130051663	-0.040628564
0.491586472	1.52E-27	0.358946672	1.60E-14	-0.069832484
0.247596915	1.99E-07	0.208789306	1.27E-05	0.016337888
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0.230886435	1.30E-06	0.239137475	5.24E-07	0.061643383
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0.597723708	5.31E-43	0.428207107	1.33E-20	-0.107865687
0.75981339	4.70E-82	0.487338636	4.95E-27	-0.060893703
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0.238600109	5.56E-07	0.173176017	0.000308689	-0.091229497
0.487180169	5.17E-27	0.268408009	1.57E-08	0.026879974
0.293082513	5.78E-10	0.120041914	0.012738057	-0.011008344
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0.122857272	0.010776208	0.046374034	0.337382732	0.062257607
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0.317146094	1.67E-11	0.357916778	1.93E-14	-0.059214706
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0.366091733	4.39E-15	0.230672226	1.33E-06	0.022929809
0.333794059	1.19E-12	0.183056041	0.000134984	0.010344071
-0.423242958	4.06E-20	-0.218846798	4.64E-06	0.031973873
-0.63826028	1.43E-50	-0.404527828	2.32E-18	0.124076001
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0.258802922	5.21E-08	0.287160257	1.31E-09	-0.03443556
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0.303000928	1.40E-10	0.122853185	0.01077885	0.183527547
0.523970511	1.08E-31	0.38519341	1.17E-16	-0.060486663
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0.755657342	1.12E-80	0.498342541	2.26E-28	-0.073713617
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-0.248719135	1.74E-07	-0.025916639	0.591996883	0.07826603
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0.05021497	0.298849265	0.07071074	0.143233902	-0.01565012
0.381000681	2.65E-16	0.205505155	1.75E-05	-0.01369422
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0.335648973	8.78E-13	0.188548651	8.36E-05	0.002312213
0.400238065	5.66E-18	0.381197622	2.55E-16	0.041237016
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0.441640481	5.91E-22	0.211109942	1.01E-05	-0.112228996
0.137810002	0.004195938	0.09599696	0.046652935	-0.034298279
-0.276844052	5.27E-09	-0.072694639	0.132315854	0.087678539
-0.064970938	0.178700978	-0.062335733	0.197011236	0.003780211
0.535552968	2.75E-33	0.355425901	3.00E-14	0.015255321
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-0.238745859	5.47E-07	-0.060145107	0.213244943	0.091801099
0.35700703	2.27E-14	0.339816343	4.40E-13	-0.030142844
-0.418460107	1.17E-19	-0.184988799	0.000114228	0.033306065
0.218813169	4.65E-06	0.126547595	0.008612171	-0.004149382

0.041703	0.388340992	-0.052010839	0.281878621	0.024636149
0.407099486	1.35E-18	0.314997242	2.33E-11	0.011568485
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0.554527254	4.89E-36	0.346887456	1.33E-13	-0.032456723
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-0.521650898	2.22E-31	-0.381737437	2.29E-16	0.115462745
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0.564469598	1.50E-37	0.44317043	4.11E-22	-0.021633378
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0.253617166	9.76E-08	0.234113281	9.16E-07	0.009717915
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0.060796524	0.208320179	-0.002363451	0.961025317	0.028987337
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0.650327906	-0.053307991	0.270033809	-0.033322038	0.49072225	-0.078944935
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0.699333124	-0.017635393	0.715365852	-0.035010123	0.469007955	0.124830897
0.623119271	0.06474449	0.180223041	0.298878441	2.54E-10	0.315871159
0.046235194	0.060103372	0.2135633	-0.145808232	0.002437804	-0.280660296
0.614827261	-0.086812298	0.072124031	0.063759434	0.186955842	-0.031392222
0.243011447	-0.02461243	0.610776277	0.374197312	9.70E-16	0.299126952
0.2643651	-0.013428228	0.781276722	-0.039471688	0.414249668	-0.127947483
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0.713965569	0.146449969	0.002331125	-0.015623764	0.746651379	0.065075091
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0.649147868	0.092446548	0.055424183	0.212177226	9.10E-06	0.074544616
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3. 17E-09	0. 060700942	0. 209037602	0. 243372117	3. 24E-07
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4. 05E-12	0. 225862056	2. 23E-06	0. 25392588	9. 40E-08
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2. 92E-10	0. 031969846	0. 508496799	-0. 290586532	8. 19E-10
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9. 85E-12	0. 106644701	0. 027014796	-0. 201007256	2. 68E-05
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2. 78E-10	0. 297577179	3. 06E-10	-0. 169550936	0. 000413603
3. 57E-05	0. 412813754	4. 00E-19	0. 064690332	0. 180588485
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6. 46E-07	-0. 032820662	0. 49727377	0. 143419936	0. 002875094
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9. 42E-07	0. 0348208	0. 471416593	-0. 396081557	1. 33E-17
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7. 16E-05	-0. 30673424	8. 06E-11	-0. 240503798	4. 49E-07
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1. 90E-05	0. 027704941	0. 566685614	0. 032971591	0. 495296692
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2. 34E-11	0. 203377707	2. 14E-05	0. 144042372	0. 002754732
7. 30E-10	-0. 048686418	0. 313818645	0. 343494461	2. 37E-13
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9. 06E-05	0. 113419978	0. 018638822	0. 498649228	2. 07E-28
0. 961831931	0. 042671804	0. 377405	-0. 381068942	2. 61E-16
2. 87E-11	-0. 118715652	0. 013766812	-0. 135343624	0. 004933839
0. 089582825	0. 207094785	1. 50E-05	0. 256852951	6. 60E-08
0. 29589873	0. 022292371	0. 644815719	0. 134042593	0. 005368483
0. 235564412	0. 008697259	0. 857287108	-0. 164222002	0. 000629198
0. 01710055	0. 136664008	0. 004525408	-0. 142892577	0. 002980793
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0. 046387379	-0. 006202115	0. 897961689	-0. 225080184	2. 42E-06
3. 44E-06	-0. 057900325	0. 230855846	-0. 028842921	0. 550852837
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9. 04E-10	0. 073469006	0. 128232908	-0. 147440011	0. 00217488
0. 596548878	-0. 141449823	0. 003288266	0. 11393295	0. 01810874
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9. 71E-23	-0. 063800951	0. 186668394	0. 3886396	5. 93E-17
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6. 98E-09	0. 025992382	0. 590914415	0. 114869769	0. 017174557
7. 91E-09	0. 128880238	0. 007452745	0. 003667391	0. 939556323
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7.90E-07	0.288638475	1.07E-09	-0.1222717	0.011160666
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1. 29E-07	-0. 020604943	0. 670053414	-0. 216189599	6. 08E-06
3. 61E-16	0. 052293452	0. 279268509	0. 10293834	0. 032840058
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7. 87E-06	-0. 018607011	0. 70042015	0. 194778928	4. 78E-05
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1. 97E-14	0. 043418444	0. 369107277	-0. 15770916	0. 00103306
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2. 16E-14	0. 055263552	0. 252827873	0. 187489657	9. 18E-05
2. 58E-08	0. 18235539	0. 000143346	-0. 259183542	4. 97E-08
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3. 42E-06	0. 392580276	2. 70E-17	0. 055511214	0. 250704388
5. 61E-09	0. 423281453	4. 03E-20	0. 114386268	0. 017651301
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0. 617480611	-0. 202180823	2. 40E-05	0. 008592972	0. 858980378
0. 748357124	0. 04238083	0. 380669507	0. 23754046	6. 26E-07
5. 30E-08	-0. 136362875	0. 004615772	-0. 316622619	1. 81E-11
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4. 29E-05	-0. 187398501	9. 25E-05	0. 017362339	0. 719585974
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3. 38E-15	0. 071429926	0. 139199035	0. 218914503	4. 61E-06
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4. 98E-08	0. 284513028	1. 89E-09	0. 034746344	0. 472365704
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4. 67E-18	-0. 068708519	0. 154937986	0. 011503631	0. 811991332
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1. 61E-05	0. 042068299	0. 384195046	-0. 251503946	1. 25E-07
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9.80E-15	-0.024976886	0.605501974	0.058036518	0.229758888
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-0.190443027	7.07E-05
-0.121767841	0.011501141
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-0.202417351	2.35E-05
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-0.210770171	1.05E-05
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-0.17981635	0.000177899
-0.177025392	0.00022481