

Table S2 Identified mRNAs in LUSC

mRNA	logFC	logCPM	PValue	FDR
ITLN1	-8.090200779	3.245130679	3.34E-292	6.10E-288
SFTPC	-6.137542357	10.89669903	1.47E-82	7.04E-81
AGER	-5.99823051	7.425121794	2.27E-197	2.08E-194
CLDN18	-5.981604496	6.261833531	6.95E-134	1.27E-131
SLC6A4	-5.974926896	3.940362475	1.63E-146	3.86E-144
GGTLC1	-5.700778207	1.908185195	3.36E-105	3.10E-103
GKN2	-5.649433712	2.265962602	7.14E-97	5.07E-95
PRG4	-5.643757518	3.456345852	1.48E-169	6.00E-167
ANKRD1	-5.639711813	3.200075031	7.61E-136	1.45E-133
CD300LG	-5.601487478	0.538258843	4.86E-112	5.19E-110
CA4	-5.434459369	1.988603293	5.39E-142	1.19E-139
FAM107A	-5.413913326	4.797664629	2.26E-207	2.58E-204
CLIC5	-5.328556818	5.178447449	3.12E-212	5.19E-209
AC008763.3	-5.311412527	-3.795823487	1.29E-67	4.14E-66
MCEMP1	-5.281946044	3.827440075	5.69E-173	2.48E-170
GPM6A	-5.243605501	2.330936569	2.68E-115	3.06E-113
RS1	-5.167097839	-0.924110135	1.50E-172	6.36E-170
CEACAM8	-5.1587123	-2.600650126	5.11E-130	8.48E-128
GPIHBP1	-5.147140027	2.56564064	1.03E-176	5.40E-174
CNTN6	-5.133676211	0.69995884	5.55E-110	5.70E-108
TMEM100	-5.110322148	3.68056811	7.03E-134	1.27E-131
HBA1	-5.09484199	-1.765267491	6.36E-123	9.01E-121
ADH1B	-5.076954201	5.480450376	5.27E-105	4.82E-103
GPA33	-5.070872336	0.793816946	3.71E-160	1.19E-157
ADAMTS8	-5.037526152	2.612182574	6.96E-158	2.12E-155
FCN3	-5.007788456	4.548449794	8.89E-169	3.46E-166
TNNC1	-5.005826783	2.809063621	6.05E-149	1.49E-146
GPD1	-5.00498139	2.653204256	1.83E-194	1.52E-191
RXFP2	-4.999882055	-3.337558449	1.68E-68	5.52E-67
F11	-4.950327634	-0.034193208	2.10E-92	1.28E-90
CAV3	-4.914523458	-3.133628655	2.44E-116	2.89E-114
PLA2G1B	-4.842656698	0.815532444	4.79E-95	3.18E-93
CPB2	-4.83121434	1.711416502	1.29E-69	4.42E-68
INMT	-4.830271503	4.655728262	8.03E-208	1.05E-204
C8B	-4.801491205	0.455000631	3.65E-57	8.80E-56
VEGFD	-4.774017816	2.590335617	4.46E-141	9.48E-139
OTC	-4.746808919	-2.585849576	1.37E-102	1.19E-100
CLEC3B	-4.741618614	3.481649271	4.21E-246	1.54E-242
HBB	-4.717982082	6.127972218	1.67E-107	1.61E-105
RETN	-4.708704051	0.701531695	2.06E-119	2.67E-117
ITLN2	-4.693060996	1.758296051	1.56E-100	1.27E-98

FREM3	-4.686558436	-1.829568406	1.47E-126	2.25E-124
DEFA3	-4.676185107	-3.041502519	2.39E-61	6.41E-60
GDF10	-4.657022269	1.622930012	7.96E-105	7.23E-103
GRIA1	-4.655737193	1.398181511	8.16E-89	4.62E-87
CLEC4M	-4.653656998	-1.578287362	8.09E-88	4.41E-86
TNXB	-4.646129375	4.478815372	1.05E-179	6.16E-177
SEC14L3	-4.644721406	-1.039619928	1.06E-74	4.30E-73
MS4A15	-4.607279123	3.074606962	1.32E-69	4.52E-68
PGC	-4.603415107	5.638189296	5.62E-56	1.32E-54
CYP4B1	-4.596552574	5.863629047	1.87E-84	9.26E-83
SFTPA1	-4.590435299	10.85395955	2.80E-57	6.75E-56
CACNA2D2	-4.579352531	4.908072075	7.67E-155	2.12E-152
AGRP	-4.571462887	-1.063125996	1.35E-158	4.26E-156
GP9	-4.539490985	-3.359179866	1.56E-106	1.46E-104
TCF21	-4.533559185	2.695653909	2.96E-179	1.69E-176
VEPH1	-4.517933379	3.326138602	5.75E-142	1.25E-139
HBA2	-4.514239696	3.540917073	1.44E-120	1.93E-118
LRRC36	-4.485250549	1.389578296	6.22E-176	2.99E-173
SUSD2	-4.466615133	6.205955582	1.49E-140	3.09E-138
CHRM2	-4.453992917	-1.585748035	3.15E-76	1.31E-74
SCN7A	-4.450974398	3.41360264	2.29E-125	3.49E-123
DES	-4.44163283	3.797490413	6.75E-110	6.89E-108
INMT-MINDY4	-4.431716296	-3.239510647	4.95E-95	3.28E-93
SCARA5	-4.430580591	2.235690977	8.33E-87	4.40E-85
KIAA0408	-4.423222794	-2.150844387	1.26E-90	7.31E-89
CSF3	-4.38256056	3.51101962	1.55E-63	4.47E-62
PEBP4	-4.331429208	3.799265776	1.03E-63	2.98E-62
ANGPT4	-4.315648598	-0.423424748	8.10E-136	1.53E-133
SFTPA2	-4.309150785	11.16085434	4.00E-50	7.86E-49
AQP4	-4.299720801	6.077594587	1.09E-61	2.96E-60
EDNRB	-4.286542423	4.385413966	9.97E-206	1.01E-202
SERTM1	-4.279014825	0.932498682	1.90E-49	3.65E-48
MYZAP	-4.278935777	1.31324568	1.92E-177	1.06E-174
OGN	-4.256351097	2.435861287	5.89E-100	4.68E-98
ABCA8	-4.247481802	3.14211799	4.49E-125	6.68E-123
RSPO1	-4.236752895	-0.150680066	7.21E-132	1.26E-129
ZBTB16	-4.232319799	1.812257445	4.05E-80	1.83E-78
CTXND1	-4.21631208	0.335762914	1.71E-124	2.50E-122
SCGB1A1	-4.213149117	7.315373473	2.17E-40	3.05E-39
CD5L	-4.208222925	-1.178620698	1.21E-53	2.63E-52
LRRN4	-4.205197761	2.114067811	8.30E-91	4.86E-89
OVCH1	-4.204836022	-0.915565833	6.09E-97	4.35E-95
TNR	-4.203301831	0.026844216	4.08E-75	1.66E-73

SLC46A2	-4.201480728	1.215709035	1.27E-103	1.13E-101
CHIA	-4.191854318	0.995656655	8.02E-46	1.35E-44
ALAS2	-4.188359867	-1.475464601	2.42E-122	3.37E-120
GGTLC2	-4.186660981	-2.90966105	2.52E-85	1.29E-83
RTKN2	-4.132624709	4.939897094	4.14E-253	3.79E-249
FHL5	-4.077234948	1.211840228	6.16E-163	2.21E-160
PKHD1L1	-4.075247365	1.122929267	1.23E-96	8.68E-95
ANGPTL7	-4.068561762	-1.230846738	8.60E-67	2.71E-65
PDK4	-4.057846872	4.859540409	3.73E-113	4.11E-111
DPCR1	-4.053046264	0.743691876	2.09E-57	5.07E-56
KHDRBS2	-4.040409988	-0.028969244	9.02E-74	3.51E-72
HSD17B6	-4.033058434	3.421000271	9.70E-251	5.91E-247
NDNF	-4.012709713	4.856242527	3.55E-84	1.75E-82
C1QTNF7	-4.012430437	1.457477789	5.33E-130	8.77E-128
TEK	-4.010053492	3.760654882	4.61E-232	1.20E-228
FOSB	-4.009574695	7.120042757	2.51E-82	1.19E-80
FAM189A2	-4.00664549	3.260103523	3.29E-120	4.38E-118
LPL	-4.006247236	4.931108929	9.06E-131	1.52E-128
SFTA2	-3.99851476	4.320969781	8.27E-48	1.51E-46
DEFA4	-3.965714918	-3.83608791	8.87E-53	1.87E-51
PRND	-3.959925122	0.238338866	1.48E-64	4.42E-63
ADGRD1	-3.952339055	3.653335086	5.68E-134	1.05E-131
OR6K3	-3.939702036	-4.017263812	1.67E-45	2.78E-44
MARCO	-3.929428765	5.745185389	4.51E-84	2.20E-82
FOLR1	-3.925916213	4.851036144	1.43E-60	3.76E-59
CHRM1	-3.91645368	-0.584929822	1.86E-55	4.30E-54
LYVE1	-3.915711903	3.307544841	1.57E-160	5.13E-158
CST5	-3.906606268	-2.210713744	2.85E-64	8.43E-63
SCUBE1	-3.89950241	2.440926311	2.56E-70	8.96E-69
SLC5A9	-3.89091952	0.581042617	1.57E-94	1.02E-92
SFTPD	-3.890131008	6.792243573	5.66E-55	1.28E-53
DLC1	-3.879869266	5.59391397	1.91E-194	1.52E-191
ASPA	-3.87788596	0.123767099	8.59E-141	1.80E-138
NPR1	-3.858142087	3.616797955	1.99E-191	1.51E-188
FHL1	-3.856866643	5.667735133	5.61E-156	1.60E-153
C6orf229	-3.854967896	-3.834594934	1.34E-49	2.59E-48
HHIP	-3.84213258	3.79938622	1.14E-54	2.56E-53
CXCL2	-3.833619507	5.082383452	3.16E-84	1.56E-82
RBP2	-3.825005499	-1.034250083	3.91E-83	1.88E-81
SLC39A8	-3.815114868	6.409996765	7.30E-187	4.94E-184
PRX	-3.809233934	3.870589833	7.04E-203	6.77E-200
C16orf89	-3.797509352	4.935414236	3.47E-56	8.17E-55
MAMDC2	-3.79607427	3.441645526	4.02E-74	1.59E-72

ATOH8	-3.793455198	3.341909851	1.34E-96	9.43E-95
ATP1A2	-3.786759269	0.805565181	3.09E-78	1.34E-76
PF4	-3.783845668	-1.653066243	1.40E-62	3.90E-61
AL096711.2	-3.778008658	-1.73388636	2.58E-115	2.97E-113
ADGRF5	-3.775270507	6.219421625	9.59E-163	3.37E-160
NAPSA	-3.765914311	8.118485776	1.58E-47	2.84E-46
LRRK2	-3.75357872	5.986220011	5.34E-93	3.31E-91
LRRN3	-3.747106222	0.977128919	2.69E-96	1.89E-94
COL4A3	-3.738398453	3.148023907	4.01E-84	1.96E-82
LCN6	-3.734002639	-2.479861054	6.27E-47	1.11E-45
CCL23	-3.733799579	0.051729348	1.23E-86	6.47E-85
CHRD1	-3.733353662	4.087288167	4.18E-72	1.54E-70
GGTLC3	-3.732619762	-3.820175519	5.75E-44	9.11E-43
SLC10A2	-3.732313094	-3.075258666	1.13E-31	1.08E-30
SEC14L6	-3.725815306	1.658341645	6.83E-95	4.49E-93
EMCN	-3.724000183	3.524673271	9.10E-170	3.78E-167
SFTA3	-3.716689162	4.072714434	1.65E-39	2.25E-38
APOH	-3.713694818	0.272158463	4.45E-27	3.33E-26
MRC1	-3.701740057	6.051707038	4.77E-101	3.96E-99
CCDC141	-3.700200541	0.861455897	1.36E-79	6.05E-78
ADRA1A	-3.698900572	-0.993854929	2.19E-32	2.15E-31
MT1M	-3.683714495	2.234810021	8.29E-87	4.39E-85
TMEM252	-3.683144124	-3.168037191	1.05E-71	3.82E-70
CCL14	-3.681853115	0.284773382	3.23E-72	1.20E-70
MYOCD	-3.681441927	0.40687713	3.97E-75	1.62E-73
C18orf63	-3.679169392	-3.157200957	5.37E-44	8.51E-43
GYPE	-3.676282914	-1.018401719	3.17E-110	3.32E-108
MAP1LC3C	-3.661892382	-0.344762074	5.15E-72	1.89E-70
HIGD1B	-3.655478806	1.461686543	2.77E-206	2.97E-203
ANGPTL5	-3.654941395	-2.634982553	2.30E-71	8.23E-70
SSTR1	-3.640829049	1.415515571	1.89E-54	4.21E-53
PPBP	-3.63897717	0.348928226	1.44E-33	1.49E-32
RASGRF1	-3.63483685	3.350297038	1.76E-67	5.62E-66
EFCC1	-3.630958064	1.765088378	8.10E-150	2.03E-147
SLC34A2	-3.627324289	8.829138037	2.27E-49	4.34E-48
ABCA3	-3.626204871	7.231624653	2.32E-74	9.27E-73
AGTR2	-3.625731058	2.330780842	2.39E-29	2.02E-28
AOC3	-3.618699232	5.665351418	4.14E-137	8.14E-135
CAVIN2	-3.607607788	5.738071185	1.53E-106	1.44E-104
IL1RL1	-3.601738528	3.41197143	3.17E-46	5.44E-45
PTPRB	-3.601389652	5.116911953	2.28E-232	6.95E-229
KCNK3	-3.591582473	3.321782901	5.47E-69	1.83E-67
ROBO4	-3.581928714	4.57192788	1.84E-249	8.40E-246

PII6	-3.577998762	0.764402434	9.15E-46	1.54E-44
PGM5	-3.56574369	2.528903212	8.86E-98	6.43E-96
HNF1B	-3.563492563	1.943944655	6.51E-46	1.10E-44
KL	-3.541466957	1.400835435	1.55E-102	1.34E-100
SYNDIG1L	-3.537942016	-0.540016724	2.80E-67	8.91E-66
ITGA8	-3.537883552	3.700906918	1.24E-124	1.83E-122
SELENBP1	-3.537766104	5.944405329	8.83E-98	6.43E-96
GUCA2A	-3.532554593	-2.893665954	3.51E-20	1.76E-19
ADRB1	-3.523397327	2.077507335	3.13E-79	1.38E-77
ZNF385B	-3.523090423	2.814715091	5.79E-62	1.59E-60
MFAP4	-3.518957921	6.677431235	1.95E-98	1.47E-96
ANGPTL1	-3.518727303	1.182555029	2.43E-98	1.82E-96
FO681492.1	-3.514162533	-0.336948058	3.22E-82	1.52E-80
FPR2	-3.511144164	2.205636495	1.08E-74	4.35E-73
COL6A6	-3.51066049	3.314859833	6.82E-70	2.36E-68
HSPB6	-3.508626099	2.829243873	2.34E-104	2.10E-102
RXRG	-3.503617329	0.083393707	1.75E-70	6.15E-69
MYRF	-3.500280662	4.25474926	1.29E-123	1.85E-121
VIPR1	-3.499365392	4.294927116	1.95E-139	3.96E-137
FAM216B	-3.497215996	2.046562695	4.81E-31	4.43E-30
MT1A	-3.493357167	1.086463041	2.26E-36	2.68E-35
ACOXL	-3.49255728	1.351166388	3.09E-121	4.22E-119
FXYD1	-3.486356893	-0.265247854	1.37E-143	3.10E-141
C10orf67	-3.483269375	-0.34387389	5.00E-59	1.26E-57
S1PR1	-3.482579547	4.739189414	3.74E-169	1.49E-166
CDH5	-3.468754253	5.583277477	2.21E-215	5.05E-212
MYRIP	-3.468457719	0.288440907	2.28E-86	1.19E-84
SOX17	-3.46833818	1.278778739	2.76E-156	8.00E-154
CAPN9	-3.466538607	1.208970917	3.24E-72	1.20E-70
A2M	-3.459152207	9.711626914	9.02E-140	1.85E-137
ADGRG4	-3.458982279	-3.759362781	2.83E-38	3.65E-37
KANK3	-3.450390549	2.252923184	1.67E-175	7.83E-173
C2orf91	-3.445205794	-1.258744939	1.33E-50	2.66E-49
SLC51B	-3.444887329	-0.337320905	6.90E-98	5.04E-96
RAMP3	-3.443628966	4.049560656	4.71E-176	2.32E-173
SHE	-3.443274951	3.278414367	5.83E-136	1.12E-133
SLC19A3	-3.442322214	2.028129337	1.24E-79	5.55E-78
TUBB1	-3.438954203	-0.607997563	2.44E-176	1.24E-173
FFAR4	-3.436555396	0.873125168	2.06E-75	8.47E-74
LEFTY2	-3.434641809	-0.870995381	9.76E-58	2.40E-56
SCGB3A1	-3.43370464	5.623619176	1.31E-33	1.35E-32
LOXHD1	-3.428157649	-0.610048681	1.17E-69	4.02E-68
LIMCH1	-3.424019142	6.107485155	1.20E-117	1.47E-115

ABI3BP	-3.417912423	4.902179361	9.04E-96	6.19E-94
MMRN1	-3.416614229	3.07454861	8.17E-85	4.10E-83
RGCC	-3.414549698	5.602228516	1.70E-209	2.39E-206
ADGB	-3.414209231	-0.804492047	6.91E-26	4.83E-25
PLAC9	-3.413792517	1.980942792	1.43E-164	5.34E-162
ACADL	-3.412634565	2.000479835	6.02E-74	2.36E-72
C1orf87	-3.407341845	0.349436626	6.18E-24	3.91E-23
CASQ2	-3.406947439	0.336434398	4.30E-64	1.27E-62
C7	-3.398749113	6.1684347	6.40E-51	1.28E-49
AFF3	-3.380675617	2.555867972	8.47E-71	3.00E-69
GPR17	-3.375554159	-0.763591031	3.52E-67	1.12E-65
TMEM212	-3.37439868	-0.79317312	3.18E-27	2.40E-26
C6	-3.37070336	1.075267152	2.92E-32	2.86E-31
VWA3B	-3.362784351	1.347992029	2.99E-43	4.63E-42
NOSTRIN	-3.356442444	2.540159804	1.50E-207	1.82E-204
NMUR1	-3.353114381	0.155406739	4.06E-98	3.00E-96
TRHDE	-3.347381414	0.642821212	1.71E-26	1.24E-25
WISP2	-3.346430136	3.381842212	5.66E-85	2.85E-83
GPX3	-3.346358034	7.46960581	7.51E-110	7.63E-108
PREX2	-3.338315406	2.615592367	2.12E-127	3.37E-125
LDB2	-3.338000119	4.062651813	4.16E-212	6.33E-209
CFAP65	-3.3365473	1.202745649	5.35E-29	4.41E-28
SLC1A1	-3.335720289	3.602954023	5.99E-108	5.85E-106
RND1	-3.334815047	4.200677246	1.83E-60	4.81E-59
PIGR	-3.334583334	7.055321039	5.25E-43	8.08E-42
SFTPB	-3.331391447	11.1939827	3.15E-32	3.08E-31
CA3	-3.327073503	1.215138358	1.03E-58	2.58E-57
C4BPA	-3.32054988	5.753206613	1.04E-31	9.93E-31
CCDC85A	-3.319719896	0.47728512	2.52E-80	1.15E-78
ACKR1	-3.315552227	3.923131543	4.34E-57	1.04E-55
SEMA3G	-3.306284009	3.457536248	3.89E-177	2.09E-174
C1orf158	-3.306180308	-0.543602951	1.54E-21	8.40E-21
ARHGEF15	-3.302942695	3.302052387	6.93E-197	6.03E-194
SCN1A	-3.29505473	0.9021811	1.34E-41	1.99E-40
DNASE2B	-3.290629546	-0.50803529	1.30E-48	2.43E-47
KCNT2	-3.288683461	1.075761224	2.92E-87	1.58E-85
CX3CR1	-3.284057497	1.735897867	1.69E-86	8.87E-85
KLB	-3.280774244	0.755126435	9.71E-53	2.04E-51
BTNL9	-3.276577322	3.505563784	1.69E-53	3.67E-52
UPK3B	-3.274855485	4.715937353	1.15E-44	1.86E-43
TEKT1	-3.262995919	1.704532547	2.43E-26	1.74E-25
FMO2	-3.261921319	5.759549278	1.83E-65	5.57E-64
EPAS1	-3.259766724	8.618421986	1.22E-162	4.22E-160

VWF	-3.254994085	7.827022805	9.45E-156	2.66E-153
STEAP4	-3.249964468	5.92833039	3.57E-55	8.15E-54
SPAAR	-3.249543376	-0.121482816	1.85E-154	4.98E-152
BEND2	-3.247760444	-4.187254998	2.17E-36	2.58E-35
CRTAC1	-3.24719836	4.636488984	2.88E-44	4.61E-43
AGBL1	-3.244344097	-3.197326763	1.37E-32	1.36E-31
FOXA2	-3.242153038	2.764953249	3.47E-39	4.67E-38
OLR1	-3.241699716	5.096423334	1.39E-64	4.15E-63
AKAP2	-3.239812549	-0.290841794	2.12E-82	1.01E-80
ERICH3	-3.237852493	1.835416615	3.74E-31	3.46E-30
ANKRD66	-3.236464209	-0.367335234	2.49E-20	1.26E-19
IHH	-3.233069546	-0.48213783	1.31E-26	9.52E-26
CLEC19A	-3.229526886	-4.127352179	2.30E-43	3.59E-42
NR4A3	-3.226124675	4.041144133	2.40E-63	6.89E-62
C2orf40	-3.225487192	1.144701823	2.67E-35	3.01E-34
GIMAP8	-3.223610117	3.974602539	1.00E-148	2.44E-146
MROH9	-3.220866982	-1.35752431	1.35E-40	1.92E-39
VSIG2	-3.220771113	3.311535089	1.41E-46	2.47E-45
PDE1C	-3.220684253	1.308451168	2.70E-102	2.30E-100
GCOM1	-3.220258332	-0.966041292	3.16E-68	1.03E-66
MYBPHL	-3.218766167	-1.196333186	2.34E-42	3.54E-41
LRRC18	-3.218487928	-1.223358703	2.59E-39	3.50E-38
SIRPB1	-3.212201488	2.524484803	2.40E-81	1.12E-79
AQP1	-3.211588511	7.852562194	3.80E-69	1.27E-67
MYH2	-3.208647393	-2.218758993	1.49E-26	1.08E-25
MOGAT1	-3.207971019	-3.492172208	4.41E-37	5.40E-36
CSRNP1	-3.206728176	5.524258347	6.98E-185	4.25E-182
MS4A8	-3.197051421	2.097211758	1.15E-20	5.94E-20
KCNA5	-3.195167885	-0.62886331	1.90E-57	4.62E-56
AWAT2	-3.19499789	-2.161049158	4.34E-30	3.81E-29
SPATS1	-3.187330683	-3.534899622	2.18E-17	9.21E-17
HAS1	-3.186379853	0.830000451	1.87E-39	2.55E-38
FMO5	-3.182390957	3.058226922	1.28E-88	7.19E-87
MYOC	-3.181606787	0.091316513	1.66E-16	6.64E-16
ERBB4	-3.180108696	1.051300616	3.31E-50	6.52E-49
DNAH9	-3.175684926	2.276624634	2.75E-37	3.39E-36
CFAP77	-3.175044899	0.163651351	5.73E-34	6.01E-33
SLIT3	-3.174841348	5.172696839	2.04E-79	8.99E-78
PTPN5	-3.171621368	-1.383017143	6.28E-44	9.92E-43
ALDH3B1	-3.171607473	5.077178571	7.07E-91	4.17E-89
ART1	-3.166404735	-3.759391952	1.54E-45	2.58E-44
PCDHA12	-3.165759321	-0.49259357	1.36E-36	1.63E-35
GLDN	-3.164692681	2.573364916	1.11E-107	1.08E-105

NCKAP5	-3.163395337	3.420117703	7.79E-78	3.36E-76
SPOCK2	-3.159166245	6.699875373	2.40E-65	7.30E-64
MYCT1	-3.158970935	2.853558401	2.79E-173	1.25E-170
C1orf194	-3.158197116	0.827011457	6.62E-30	5.75E-29
TDRD10	-3.155287928	0.44936802	2.27E-69	7.71E-68
LGI3	-3.154741416	3.830287602	9.94E-36	1.14E-34
SIGLEC11	-3.149660505	0.006795008	4.70E-58	1.16E-56
ARHGAP6	-3.145109682	1.987440802	6.00E-102	5.05E-100
APLN	-3.144941109	3.924772291	1.74E-94	1.13E-92
C11orf97	-3.137190352	-1.694743709	4.28E-17	1.78E-16
CHI3L2	-3.136448678	3.906899554	4.07E-49	7.71E-48
TMEM125	-3.134169225	4.524634149	1.34E-74	5.35E-73
FBP1	-3.132384565	5.599766274	4.50E-77	1.90E-75
C6orf118	-3.132001285	-0.107760128	3.56E-21	1.89E-20
SYNE1	-3.12560122	5.508582673	4.11E-125	6.15E-123
KIR3DL1	-3.121585434	-2.338194175	1.43E-38	1.87E-37
ARC	-3.121025813	1.034267363	1.62E-52	3.37E-51
CPAMD8	-3.119303806	3.895793668	2.51E-69	8.48E-68
CGNL1	-3.117426188	4.722512252	6.18E-112	6.57E-110
ACVRL1	-3.113971279	5.149801104	1.08E-213	2.20E-210
DMBT1	-3.113100991	6.717500908	2.21E-26	1.58E-25
SLC26A9	-3.112997359	3.27336229	1.73E-47	3.10E-46
ALDH1A2	-3.109514564	2.511114672	2.28E-61	6.15E-60
FCN1	-3.107672893	3.219322794	2.68E-74	1.06E-72
JAM2	-3.100988305	3.57746065	1.39E-160	4.61E-158
WWC2	-3.100178584	4.682128825	2.29E-185	1.45E-182
TBX4	-3.097295972	3.105891516	4.63E-76	1.92E-74
SPN	-3.097093225	4.334546301	4.20E-94	2.67E-92
ADGRE3	-3.09056505	-0.057800822	7.35E-61	1.95E-59
APOBEC4	-3.089826891	-0.580446442	4.60E-19	2.16E-18
LHFPL3	-3.088761049	-0.477600749	1.65E-29	1.41E-28
RAMP2	-3.087147944	3.975738382	1.64E-212	3.00E-209
CAV1	-3.086826328	7.869511315	8.03E-88	4.40E-86
SLC6A20	-3.080782508	1.265041247	3.75E-46	6.41E-45
FAXDC2	-3.080107482	4.118329422	2.51E-99	1.94E-97
USHBP1	-3.076541917	1.283457387	7.73E-186	5.05E-183
SELE	-3.07176656	3.472968595	1.29E-34	1.40E-33
DNAH12	-3.059710304	1.085451952	3.78E-32	3.67E-31
CLDN5	-3.05612925	4.717977151	9.78E-96	6.67E-94
SGCA	-3.050288322	1.756547435	1.84E-60	4.83E-59
SNTN	-3.049537914	1.687947061	7.95E-27	5.87E-26
LRRC71	-3.044548418	-0.0009197	5.71E-34	6.00E-33
MORN5	-3.043791216	-0.00140158	2.10E-22	1.21E-21

CCBE1	-3.039602335	2.678847093	8.42E-44	1.33E-42
TAL1	-3.033549982	1.742676499	4.63E-82	2.18E-80
TMEM132C	-3.032451405	-0.717627908	1.71E-18	7.77E-18
LONRF3	-3.029028435	1.450336105	1.23E-73	4.77E-72
KLF2	-3.027341186	4.047833082	3.61E-117	4.37E-115
AGR3	-3.02664426	4.008309866	1.28E-34	1.39E-33
CD93	-3.02643345	6.414087273	1.44E-133	2.58E-131
DCDC2	-3.022979491	1.239387664	9.41E-48	1.71E-46
CLEC14A	-3.018160795	4.439412831	7.39E-174	3.38E-171
ECSCR	-3.015425425	1.488559646	1.38E-161	4.68E-159
ZMYND10	-3.015333657	2.470433786	3.23E-37	3.98E-36
AOX1	-3.014996781	2.820373303	1.09E-71	3.95E-70
C20orf85	-3.013853611	2.522119725	4.97E-16	1.93E-15
VWA3A	-3.013401032	0.754106392	1.15E-27	8.89E-27
ERICH4	-3.011638969	-3.431502966	4.85E-69	1.62E-67
RSPO2	-3.010952485	0.738399171	2.76E-24	1.79E-23
KCNA10	-3.010429307	-4.053330196	6.07E-33	6.11E-32
ACTN2	-3.009273359	0.215064638	4.61E-39	6.17E-38
ESAM	-3.008576335	5.105894702	4.64E-191	3.39E-188
PECAM1	-3.006007136	7.546328867	1.47E-166	5.58E-164
TNS1	-3.004111136	7.617921681	2.14E-151	5.43E-149
LDLRAD1	-3.00276904	1.815083237	9.52E-25	6.27E-24
BTNL8	-2.998685733	-1.149572509	1.41E-70	4.97E-69
C1orf141	-2.997703319	-2.057853419	2.48E-19	1.18E-18
GLP2R	-2.997077014	-1.713504993	6.14E-25	4.08E-24
ARRB1	-2.996524826	4.480557698	1.06E-117	1.30E-115
PIH1D3	-2.995281627	-1.006576563	2.40E-18	1.08E-17
GNG11	-2.993517813	4.536555327	4.22E-110	4.38E-108
STMND1	-2.993437695	-0.198283822	7.10E-24	4.48E-23
CFAP221	-2.989030297	2.150023658	1.07E-41	1.60E-40
WFDC6	-2.985871555	-2.50604048	2.67E-14	9.23E-14
VSIG4	-2.983785008	5.545416696	1.31E-64	3.93E-63
CABCOCO1	-2.982313796	0.315705678	1.07E-36	1.29E-35
GPRC5A	-2.981713791	8.030871415	1.35E-62	3.78E-61
RGR	-2.980623674	-4.11896158	2.12E-17	8.95E-17
FABP4	-2.977382154	4.629635784	2.20E-20	1.12E-19
FGFR4	-2.97553528	3.925242222	1.09E-77	4.70E-76
CXCR1	-2.974147801	1.162179977	1.23E-33	1.28E-32
LRRC32	-2.973646577	5.414677661	5.13E-131	8.69E-129
DNAI2	-2.964042195	0.697333154	4.12E-27	3.09E-26
NR0B2	-2.961308354	-0.068752803	3.12E-19	1.47E-18
FYB2	-2.961000597	0.094367121	1.03E-44	1.67E-43
FRMD3	-2.959523875	1.697777621	8.05E-112	8.50E-110

MMP24	-2.95929721	2.29587609	5.85E-91	3.47E-89
HYDIN	-2.958041561	0.998494046	7.72E-37	9.38E-36
HELT	-2.957999046	-2.997432527	8.43E-17	3.43E-16
IL6	-2.957504965	4.628841092	3.22E-40	4.49E-39
TTC29	-2.956584685	-0.080122784	1.10E-19	5.36E-19
CFAP52	-2.953397038	0.887940334	5.49E-39	7.32E-38
IQSEC3	-2.953175949	1.384724844	8.52E-63	2.40E-61
JCAD	-2.95278469	5.31071322	5.47E-124	7.87E-122
ALOX15B	-2.949034996	4.638997704	8.02E-46	1.35E-44
FAM162B	-2.945162917	1.124359744	1.74E-96	1.23E-94
STAC	-2.944011959	2.543694286	2.73E-49	5.20E-48
NECAB1	-2.943690601	1.909538151	1.10E-60	2.92E-59
FBLN5	-2.943510057	5.155476254	2.53E-108	2.51E-106
MAP3K19	-2.941119075	0.224463116	3.31E-30	2.93E-29
CD52	-2.939102667	5.250949664	8.26E-75	3.35E-73
ACKR4	-2.93484068	0.371285821	2.17E-100	1.76E-98
ELANE	-2.93430055	-2.607575353	1.17E-48	2.19E-47
TCTE1	-2.93310943	-0.226200048	1.65E-31	1.56E-30
SLC4A4	-2.931534022	3.228280112	1.91E-46	3.30E-45
NOVA2	-2.929378865	1.991240957	9.37E-132	1.60E-129
NKX2-1	-2.919627726	4.516911054	2.49E-27	1.89E-26
PKNOX2	-2.917762901	1.998313174	2.55E-80	1.16E-78
AL928654.3	-2.917707831	-3.736293957	3.78E-41	5.49E-40
ROR1	-2.916915031	2.577509457	2.66E-63	7.62E-62
MAS1L	-2.916720017	-3.882178171	1.05E-23	6.55E-23
ADAM29	-2.916663199	-3.125025195	2.12E-27	1.62E-26
TUBA4B	-2.915945244	0.513641672	1.17E-28	9.48E-28
FAM110D	-2.913878217	0.406346553	1.43E-115	1.67E-113
CAPSL	-2.912853497	0.660354644	7.69E-24	4.85E-23
CATSPERD	-2.909802166	-0.996390712	1.57E-22	9.09E-22
SELP	-2.906618269	3.100711703	2.38E-65	7.24E-64
ARHGAP44	-2.903579493	3.692197144	2.31E-90	1.33E-88
LIMS2	-2.903491718	4.33488021	8.35E-128	1.34E-125
LMO3	-2.902884945	4.489578903	1.78E-32	1.76E-31
CFAP43	-2.902624456	1.976701405	1.31E-39	1.79E-38
STARD8	-2.900799588	3.35117391	2.61E-133	4.63E-131
PTCRA	-2.900414562	-1.129649828	2.73E-63	7.80E-62
LCN10	-2.899090104	-2.59285027	1.45E-21	7.92E-21
HSPA12B	-2.898789335	2.832514706	8.29E-142	1.78E-139
RSPH1	-2.898070181	2.316215965	5.64E-34	5.94E-33
GAS2L2	-2.895174088	0.288452035	2.48E-25	1.69E-24
WDR38	-2.894761338	1.091416065	4.19E-24	2.67E-23
IL5RA	-2.892078018	0.785865357	1.75E-42	2.65E-41

AGTR1	-2.888014023	0.739683166	2.69E-39	3.63E-38
ADRB2	-2.885914379	3.032082953	3.91E-62	1.08E-60
ESYT3	-2.885500847	2.882972866	2.65E-64	7.85E-63
CCDC33	-2.882931462	-0.092259034	2.98E-21	1.59E-20
DPEP2	-2.880656326	2.314220159	2.16E-87	1.17E-85
CD36	-2.876847634	5.296881275	5.02E-55	1.14E-53
CDO1	-2.876461358	1.206732193	2.14E-42	3.25E-41
SCEL	-2.875445066	4.866810434	3.23E-39	4.35E-38
DRC7	-2.873323251	0.091538994	1.56E-26	1.13E-25
C21orf62	-2.871148773	-2.713403886	5.05E-49	9.53E-48
SGMS2	-2.867023148	5.129595982	4.75E-109	4.77E-107
CCDC173	-2.866372479	-0.071006892	6.50E-57	1.56E-55
CASS4	-2.865129188	2.610882586	8.90E-90	5.08E-88
MSR1	-2.860210567	5.783836818	5.41E-66	1.67E-64
TMEM213	-2.858941248	1.430185198	1.53E-18	6.96E-18
DNAI1	-2.858935229	0.765760953	1.78E-23	1.10E-22
ZBBX	-2.858199128	0.381698535	6.48E-22	3.62E-21
CFD	-2.854772086	4.357186656	2.77E-95	1.86E-93
PHACTR1	-2.852928246	3.726943513	4.79E-110	4.94E-108
FAM81B	-2.850859539	0.633152266	4.89E-25	3.28E-24
NRG3	-2.849948337	-1.449869797	1.60E-34	1.73E-33
MYOZ1	-2.849742587	0.30093722	2.55E-48	4.73E-47
SPAG6	-2.848846337	1.928952867	3.48E-23	2.10E-22
CDHR4	-2.848744832	1.098102093	5.99E-21	3.14E-20
SHROOM4	-2.846963272	4.079675141	3.00E-97	2.16E-95
RRAD	-2.846604245	4.237798335	7.86E-41	1.12E-39
HYAL1	-2.846236399	3.730087411	2.65E-86	1.38E-84
TMEM139	-2.84071188	2.046325821	9.82E-36	1.13E-34
TMEM190	-2.840671825	0.522490716	2.57E-26	1.84E-25
NR4A1	-2.840077975	6.625488889	1.45E-66	4.54E-65
COX4I2	-2.839511462	1.980155375	3.81E-105	3.50E-103
DUSP27	-2.839491184	-1.750465326	8.64E-18	3.74E-17
KIAA2012	-2.838570505	-0.532856719	1.35E-22	7.87E-22
C2orf73	-2.836308263	-1.751642417	2.25E-35	2.55E-34
CFAP73	-2.835718915	0.562812389	8.65E-34	9.02E-33
PLA1A	-2.834188103	2.140557166	2.48E-64	7.36E-63
MS4A2	-2.831021934	1.871056736	1.16E-59	2.98E-58
CCM2L	-2.830494558	1.661791683	9.80E-114	1.09E-111
TRIM71	-2.830109699	-0.367149169	2.58E-28	2.05E-27
FILIP1	-2.829671676	3.247463426	2.76E-69	9.29E-68
LMO7	-2.828550133	6.799944807	3.33E-158	1.03E-155
PCDH12	-2.827775249	3.972649338	1.28E-147	3.08E-145
SH2D3C	-2.827761363	4.163361583	5.84E-164	2.14E-161

GUCY1A2	-2.826727454	3.464073351	4.33E-100	3.47E-98
TIE1	-2.826145342	4.57446952	8.95E-135	1.67E-132
EPPIN	-2.824868267	-2.495150022	4.97E-16	1.93E-15
NXPH3	-2.821438265	1.422875612	6.96E-59	1.75E-57
FOXF1	-2.819725682	3.361701531	5.11E-99	3.89E-97
RIIAD1	-2.818025243	-1.769041233	4.86E-26	3.44E-25
PGR	-2.813008684	1.054123276	1.16E-67	3.73E-66
SYT15	-2.812733247	-0.535660045	2.31E-62	6.41E-61
TPPP3	-2.809283271	5.228235224	3.87E-55	8.80E-54
KCNA4	-2.808257902	-0.58148797	1.61E-14	5.64E-14
NLRP12	-2.807740442	-0.387533339	1.68E-47	3.02E-46
CNGA4	-2.804681347	-0.50634295	1.92E-33	1.97E-32
LAMP3	-2.804442684	7.060632211	4.26E-72	1.57E-70
IL13	-2.801884261	-2.855195105	5.66E-29	4.66E-28
CHRNA2	-2.801594757	-2.610868313	9.79E-22	5.41E-21
SLC16A12	-2.801560618	0.134883987	2.20E-39	2.98E-38
ART4	-2.799959895	0.604433282	3.17E-24	2.04E-23
CD302	-2.799858802	3.08118286	3.47E-122	4.81E-120
C8orf34	-2.799454627	0.703829934	5.07E-52	1.05E-50
HSPB7	-2.799194683	1.681942242	1.75E-68	5.74E-67
CCDC68	-2.799087373	2.37729299	2.99E-60	7.81E-59
RGS22	-2.797793242	0.540520947	8.80E-38	1.11E-36
ALOX5AP	-2.795203189	5.034601059	6.71E-76	2.77E-74
DPYSL2	-2.795176442	6.570984676	4.06E-138	8.14E-136
CCDC170	-2.793934063	2.17721614	8.66E-44	1.36E-42
C1orf116	-2.790761177	5.985634629	1.58E-76	6.62E-75
SIRPD	-2.790439169	-2.917286786	3.28E-51	6.63E-50
ARMC3	-2.790025323	1.168183163	1.08E-23	6.74E-23
LRRC2	-2.787455239	-0.241634609	2.25E-53	4.84E-52
SLC24A4	-2.783593663	0.099377243	5.05E-52	1.04E-50
ANGPT1	-2.783159081	3.626100047	2.68E-59	6.83E-58
PRAM1	-2.782927294	2.216728042	6.26E-91	3.70E-89
C9orf135	-2.781908597	-0.289653773	1.84E-16	7.33E-16
NRGN	-2.781103526	3.94752112	6.59E-55	1.49E-53
ST8SIA6	-2.779999684	0.946408908	1.90E-43	2.98E-42
MS4A7	-2.77702186	4.979275365	2.61E-75	1.07E-73
FAM105A	-2.776601622	3.957486785	2.20E-114	2.47E-112
RSPH4A	-2.77646857	1.554937598	6.51E-38	8.26E-37
DPP6	-2.776177912	-0.45389868	3.03E-23	1.84E-22
C9orf24	-2.775553637	1.65829345	1.65E-27	1.26E-26
LRP2BP	-2.774203221	1.453683922	5.07E-145	1.17E-142
TGFBR2	-2.773785067	6.896293902	6.99E-128	1.13E-125
C5orf49	-2.773382591	1.417237357	3.15E-28	2.50E-27

COLEC12	-2.77265465	4.973966417	8.61E-69	2.85E-67
NLRC4	-2.76735808	1.908390453	3.63E-133	6.38E-131
CACNA1D	-2.765376067	1.938656496	3.59E-51	7.24E-50
PIFO	-2.765236255	2.725388232	5.10E-34	5.38E-33
HPSE2	-2.764062359	0.231726661	3.87E-32	3.75E-31
DNAH7	-2.761689455	0.987841167	8.82E-47	1.55E-45
SCTR	-2.761577555	2.349661732	2.03E-33	2.08E-32
PTX3	-2.759497141	2.36870031	6.13E-31	5.61E-30
MUSK	-2.757682066	-1.252430131	1.98E-54	4.40E-53
LEPR	-2.757638728	4.030037158	2.59E-88	1.45E-86
PADI4	-2.757599865	-0.844280708	2.89E-33	2.94E-32
RGN	-2.756268773	1.455536254	7.28E-50	1.42E-48
NEGR1	-2.756159514	1.917081829	1.97E-55	4.54E-54
COL4A4	-2.755524923	3.725144982	1.72E-44	2.79E-43
SORBS1	-2.755105281	4.076571962	5.37E-101	4.44E-99
C4orf22	-2.753092345	-1.392816992	6.26E-20	3.09E-19
WDR63	-2.751708848	0.28813803	4.22E-41	6.11E-40
TMEM88	-2.744475044	1.048951476	1.27E-106	1.21E-104
SPATA4	-2.742052754	-1.716269253	8.38E-26	5.83E-25
HTR3C	-2.740850295	-1.101156894	9.50E-13	2.96E-12
COBL	-2.739753567	3.91404298	2.02E-42	3.07E-41
LMOD3	-2.733169281	-1.855572301	3.32E-70	1.16E-68
DYNLRB2	-2.732442109	0.003025235	5.56E-36	6.46E-35
AATK	-2.731071058	2.897078745	5.19E-80	2.34E-78
G6PC2	-2.72978176	-4.035041965	4.78E-14	1.62E-13
CATIP	-2.728037456	-0.302470738	2.19E-43	3.41E-42
FGD5	-2.727763383	4.434454195	1.21E-99	9.44E-98
OSCAR	-2.727101601	3.375965997	3.20E-84	1.57E-82
EMP2	-2.7269977	8.182170157	4.00E-154	1.06E-151
F8	-2.726908545	3.930045293	1.75E-156	5.24E-154
IGFALS	-2.725523102	-0.316901958	8.01E-42	1.20E-40
BMP5	-2.723761778	2.73843222	3.68E-29	3.06E-28
MLPH	-2.723532932	5.307660593	1.31E-41	1.95E-40
HOPX	-2.721703559	6.284657115	2.75E-51	5.58E-50
DAW1	-2.72042908	0.312559794	2.51E-22	1.44E-21
RNASE1	-2.720286045	7.4620378	2.85E-74	1.13E-72
CXorf36	-2.719911703	3.507900126	1.04E-126	1.63E-124
RASGRP4	-2.71931755	1.570521685	4.60E-98	3.39E-96
KCNA3	-2.717559995	1.358384168	1.39E-43	2.17E-42
CFAP46	-2.713642545	0.568862143	2.59E-27	1.96E-26
CFP	-2.710858633	1.880780212	4.83E-73	1.84E-71
SHC3	-2.710420345	2.562975401	2.71E-72	1.01E-70
PCDH15	-2.706579684	0.242769688	9.86E-22	5.45E-21

ZNF366	-2.706109924	0.775024714	6.13E-76	2.54E-74
TMPRSS2	-2.705621177	5.258428118	4.06E-39	5.44E-38
FSHR	-2.702961308	-4.140386407	1.42E-13	4.69E-13
ATP13A4	-2.702862201	4.238186675	6.56E-35	7.27E-34
TREM1	-2.702841017	4.489757167	1.51E-47	2.72E-46
BTNL3	-2.700204142	-3.021885625	3.99E-20	1.99E-19
PNMA2	-2.6995899	2.517187512	1.10E-58	2.75E-57
ARHGAP31	-2.698497311	5.17161574	4.69E-109	4.74E-107
PTPN21	-2.698267577	4.237740718	1.43E-154	3.91E-152
CXCL3	-2.697137707	2.811966853	3.63E-41	5.28E-40
C11orf88	-2.694513097	1.0160336	5.11E-29	4.22E-28
HPGD	-2.693225076	5.048248328	3.50E-36	4.11E-35
C11orf96	-2.692865998	4.748824654	3.64E-59	9.23E-58
MYO7B	-2.688821879	0.976043215	5.13E-39	6.85E-38
GRK5	-2.688243571	4.654280669	5.09E-154	1.33E-151
CPED1	-2.688224108	3.274976377	8.75E-62	2.39E-60
ALOX5	-2.687276086	5.319806573	7.81E-72	2.84E-70
KLHL33	-2.684793031	-3.080543256	8.72E-47	1.53E-45
DCDC2B	-2.681235156	-0.592703184	1.61E-37	2.00E-36
DNAAF1	-2.680709022	1.909389494	7.49E-32	7.19E-31
LMOD1	-2.680056995	3.912946803	8.89E-72	3.23E-70
CALCRL	-2.678217319	5.440234535	6.55E-104	5.87E-102
HPGDS	-2.677595451	1.308213478	2.36E-77	1.01E-75
RHOJ	-2.677473579	3.368178094	4.70E-120	6.14E-118
MACROD2	-2.674709252	3.55781104	1.64E-41	2.42E-40
SMIM6	-2.674044061	-0.493551761	2.99E-31	2.78E-30
CCL24	-2.673672937	1.06435457	2.46E-33	2.51E-32
SMAD6	-2.673515271	3.607599733	3.83E-93	2.40E-91
EFHB	-2.672801664	0.265306083	9.83E-43	1.50E-41
ROS1	-2.672368202	4.974166673	4.03E-28	3.18E-27
TEKT2	-2.67218597	1.176728789	9.95E-31	9.02E-30
SVEP1	-2.670676908	4.742047594	3.66E-93	2.31E-91
C20orf202	-2.668656647	-1.174955366	3.44E-107	3.31E-105
SEMA3B	-2.668190487	4.385454076	1.21E-46	2.11E-45
CD34	-2.666974682	5.430001605	6.95E-145	1.59E-142
FAM92B	-2.66647485	1.478151746	1.37E-25	9.43E-25
CA1	-2.664512819	-2.90854174	1.51E-37	1.87E-36
CAMP	-2.662816646	-0.554266646	2.26E-28	1.80E-27
CDKL2	-2.658468867	1.482766086	2.44E-54	5.38E-53
GRAMD2A	-2.656707481	3.280724003	5.86E-62	1.61E-60
NTNG1	-2.656661227	1.04217182	2.00E-20	1.02E-19
DEPP1	-2.655794491	6.821239722	2.69E-74	1.07E-72
CDHR3	-2.654680959	2.989844624	9.26E-49	1.74E-47

STX11	-2.654072037	3.532966208	4.96E-86	2.57E-84
DENND2A	-2.652940752	2.900661673	1.18E-90	6.90E-89
RP1	-2.651468807	-1.047016602	3.75E-18	1.67E-17
LRRC46	-2.650635578	2.168384979	1.00E-42	1.53E-41
DNAH10	-2.644517081	1.746220217	1.43E-39	1.95E-38
SLCO2A1	-2.64434753	5.683565792	2.58E-47	4.60E-46
RSPH10B2	-2.643938303	-2.776351391	1.97E-30	1.76E-29
TOGARAM2	-2.642690329	1.389880016	1.55E-46	2.70E-45
KIR2DL1	-2.640275155	-2.715277608	1.58E-22	9.16E-22
SLC8A3	-2.639707378	-0.84389237	4.36E-34	4.61E-33
ADGRE1	-2.63724625	1.679923786	3.36E-35	3.77E-34
PCDH9	-2.636000359	1.937787089	3.68E-29	3.06E-28
NEK5	-2.635002845	0.811606424	2.66E-57	6.44E-56
GPBAR1	-2.632142967	-0.184540501	8.31E-93	5.11E-91
EFCAB12	-2.631944719	0.48491847	1.27E-40	1.80E-39
OMG	-2.631650909	1.346761386	1.33E-32	1.32E-31
ANOS1	-2.630897142	5.230104667	1.20E-54	2.67E-53
AVPR2	-2.629414787	-0.583627015	4.05E-45	6.66E-44
GADD45B	-2.627588552	5.798440093	6.22E-94	3.95E-92
AQP7	-2.624315645	-0.592635154	1.05E-27	8.14E-27
TCTEX1D1	-2.624152461	0.066974179	7.48E-48	1.37E-46
SLC22A31	-2.621658532	3.801999478	5.81E-25	3.88E-24
CYP3A7	-2.621554147	-0.901759916	1.83E-57	4.46E-56
GIMAP6	-2.621300468	4.300742574	9.28E-80	4.17E-78
AL049634.2	-2.619879002	-4.133585991	1.79E-36	2.13E-35
SLIT2	-2.618878423	4.939308956	2.55E-63	7.31E-62
AKAP14	-2.615389557	-0.721997509	4.55E-17	1.89E-16
FAM184A	-2.61415825	2.522591598	1.68E-50	3.33E-49
GIMAP1	-2.613661352	2.640009278	1.44E-81	6.72E-80
TMCO2	-2.610465207	-3.909750045	1.03E-36	1.24E-35
NME5	-2.607378479	0.436945819	3.94E-32	3.81E-31
DYDC1	-2.607364285	-2.769288112	6.90E-18	3.01E-17
RHOBTB2	-2.606035577	5.34459	5.51E-72	2.02E-70
PTH1R	-2.605610338	1.125830053	4.00E-60	1.04E-58
TSPAN12	-2.602767463	4.30885549	9.02E-65	2.73E-63
AC008878.3	-2.602002979	-3.401304203	1.78E-21	9.63E-21
CD300C	-2.601276032	1.718403609	8.73E-71	3.09E-69
CYP1A2	-2.600939056	-1.663256908	2.37E-09	5.79E-09
AL163636.2	-2.597847	-2.734520272	2.96E-73	1.14E-71
PIP5K1B	-2.595792891	3.100125253	1.90E-49	3.64E-48
CCL15-CCL14	-2.59555137	-3.562847755	1.01E-11	2.93E-11
AZU1	-2.592626888	-2.130868731	2.24E-40	3.15E-39
BCL6B	-2.590970961	3.600225087	4.13E-120	5.47E-118

KCNB1	-2.590192752	-0.456700941	6.09E-26	4.29E-25
PPP1R42	-2.589366663	-1.64138407	2.63E-22	1.51E-21
GNA14	-2.586944743	1.882261917	1.48E-50	2.95E-49
SCGB3A2	-2.586317069	6.321742893	6.48E-18	2.83E-17
PDE2A	-2.584912039	2.532980201	1.80E-72	6.73E-71
CYP17A1	-2.580571039	-1.449263719	5.60E-58	1.38E-56
GATA6	-2.580034414	3.430296807	1.94E-71	6.96E-70
TCTEX1D4	-2.579566697	-1.801373593	9.76E-29	7.95E-28
ECT2L	-2.577925057	0.6520906	8.58E-37	1.04E-35
FAM47E-STBD	-2.57335046	-3.870273411	9.16E-36	1.06E-34
DUSP1	-2.572970241	7.86711431	4.76E-67	1.51E-65
LRRC74B	-2.570692721	-1.252640435	1.34E-17	5.77E-17
F2RL3	-2.570464957	2.259432025	1.63E-66	5.07E-65
CLIC3	-2.56939624	3.592383349	1.19E-43	1.87E-42
SCN2B	-2.568741132	0.363001546	4.80E-34	5.07E-33
ACE	-2.566509531	5.114622384	4.36E-113	4.74E-111
DYDC2	-2.565893972	0.403037916	7.64E-26	5.33E-25
ICAM1	-2.563585802	7.54190953	4.14E-49	7.84E-48
CFAP61	-2.557379791	0.130442299	3.11E-34	3.32E-33
CADM1	-2.557235717	5.722178103	7.88E-52	1.61E-50
PTGDS	-2.556856917	5.974872241	1.90E-40	2.68E-39
TTL6	-2.556610085	-1.02007848	7.72E-17	3.15E-16
LRRC52	-2.554134579	-2.769531597	6.56E-17	2.69E-16
SLC22A10	-2.552876807	-3.577517492	2.83E-29	2.38E-28
GRIK4	-2.552818002	0.093991296	9.18E-35	1.01E-33
TMEM232	-2.551604755	0.363943511	2.86E-38	3.68E-37
CLEC1B	-2.548883354	-2.045811056	1.05E-35	1.21E-34
TMEM236	-2.543401392	-0.05888378	7.21E-60	1.86E-58
KDR	-2.542834204	4.80607235	1.30E-92	7.95E-91
PZP	-2.540971289	0.222761339	8.40E-25	5.55E-24
FLRT3	-2.540948916	4.888371321	7.78E-34	8.13E-33
ITIH5	-2.54020121	4.293837759	2.23E-28	1.78E-27
AHSP	-2.539537228	-3.891382482	1.27E-26	9.27E-26
JAML	-2.536539907	4.222723677	2.52E-66	7.81E-65
PLA2G4F	-2.536303822	4.34536215	3.97E-43	6.13E-42
CACNA1S	-2.534157731	-2.009073953	2.85E-15	1.05E-14
DRAM1	-2.533483736	5.991662578	3.32E-101	2.77E-99
MYADM	-2.53319434	7.216159466	1.26E-66	3.94E-65
CELF2	-2.53237011	5.330625554	3.08E-72	1.14E-70
UNC45B	-2.529676613	-0.932030054	1.45E-23	8.99E-23
ALPL	-2.523078028	6.204860674	8.26E-41	1.18E-39
DTHD1	-2.521962958	1.166162006	2.09E-29	1.77E-28
FAM167A	-2.521922766	3.247369365	7.23E-37	8.79E-36

KANK2	-2.516800959	5.879455291	1.63E-143	3.62E-141
F10	-2.515614203	1.276687513	8.03E-56	1.87E-54
RPS6KA2	-2.515250078	5.664030442	4.23E-103	3.74E-101
LRP2	-2.513623848	3.09022186	2.49E-21	1.34E-20
ATP8A1	-2.513583133	4.219553581	1.08E-54	2.41E-53
ADAMTSL3	-2.5135168	3.09088148	8.30E-35	9.15E-34
ABCA9	-2.512901196	1.742940578	8.70E-75	3.52E-73
SORBS2	-2.512014763	3.506804847	1.88E-46	3.25E-45
ATP10A	-2.509431224	3.652539421	2.54E-55	5.85E-54
C1orf189	-2.509171398	-1.155219642	3.67E-20	1.84E-19
FZD4	-2.506970262	4.381824761	3.88E-113	4.24E-111
FOLR3	-2.50536484	0.150131638	5.27E-17	2.18E-16
IQCIN	-2.505063923	2.584034993	3.54E-45	5.82E-44
STARD9	-2.504605486	3.052258766	2.47E-77	1.05E-75
CCL2	-2.503166814	5.875076779	4.98E-45	8.17E-44
CFTR	-2.501950245	3.320995342	1.86E-26	1.34E-25
NR3C2	-2.496425937	2.929515172	2.74E-43	4.26E-42
ROPN1L	-2.496308304	0.9205601	2.97E-24	1.92E-23
C22orf15	-2.49442556	-0.296572386	4.11E-31	3.80E-30
PPP1R17	-2.493786551	-3.671975422	3.61E-18	1.61E-17
ERG	-2.493435089	4.167361022	4.02E-107	3.85E-105
RXFP1	-2.493392892	1.406043053	4.47E-26	3.16E-25
RAI2	-2.492092864	3.367486518	1.15E-78	5.01E-77
GIMAP7	-2.490975589	3.466428412	1.30E-66	4.07E-65
AKAP12	-2.490489573	5.299757219	5.97E-46	1.01E-44
HECW2	-2.4902693	3.756457628	1.31E-126	2.02E-124
VIP	-2.489586445	-2.501111729	1.27E-35	1.45E-34
LIPN	-2.487852761	-2.090436099	4.70E-27	3.52E-26
MMRN2	-2.487694892	4.56198303	1.37E-81	6.42E-80
SOD3	-2.486238659	4.410463534	1.07E-74	4.31E-73
CCDC178	-2.486232645	-1.836528458	1.94E-24	1.26E-23
TTC16	-2.48470846	-0.045133694	1.13E-37	1.42E-36
MMP19	-2.484453842	4.658480151	3.48E-53	7.40E-52
FABP3	-2.484227387	2.846435008	1.19E-72	4.48E-71
C1orf162	-2.482928807	4.008693598	8.74E-77	3.69E-75
TEKT3	-2.481946905	-1.033988609	9.05E-47	1.59E-45
RBP4	-2.480346018	2.624223629	6.03E-19	2.81E-18
TNS2	-2.479449754	5.736137969	4.71E-152	1.21E-149
TEKT4	-2.479213615	-1.203012434	3.33E-24	2.14E-23
ITIH3	-2.479057433	0.401267589	6.01E-54	1.32E-52
WFDC1	-2.477093932	2.018925741	1.10E-66	3.47E-65
PRR29	-2.475608418	1.805517967	1.32E-44	2.14E-43
AL645922.1	-2.474380258	-4.077539607	1.91E-28	1.53E-27

SGCG	-2.474350701	0.543526423	2.11E-20	1.07E-19
CD300LF	-2.473519597	2.83473729	1.55E-57	3.77E-56
PROK2	-2.473247191	-0.757307316	2.99E-24	1.92E-23
ADCY4	-2.471542537	2.894661863	1.15E-99	8.95E-98
C9orf152	-2.471347086	2.023870609	1.04E-25	7.21E-25
KLF17	-2.470395147	-2.430919446	4.65E-40	6.46E-39
DAPK2	-2.4679086	3.91318009	1.83E-71	6.58E-70
CACNG6	-2.466170111	0.08347863	1.28E-13	4.24E-13
HMGCLL1	-2.464225984	-0.04029933	3.78E-23	2.28E-22
GPR146	-2.463268185	0.82852813	1.48E-116	1.77E-114
ALKAL2	-2.462423599	0.997421178	1.87E-28	1.50E-27
NOTCH4	-2.4610845	4.650044352	1.08E-95	7.31E-94
ARMC4	-2.45945089	1.065438654	3.18E-21	1.70E-20
GCSAML	-2.457556207	-0.466714617	3.18E-38	4.08E-37
COL6A5	-2.457495414	2.158559418	2.09E-29	1.77E-28
SMCO3	-2.455591822	-0.995425097	2.93E-67	9.30E-66
CFAP100	-2.454044298	0.096849275	2.35E-21	1.26E-20
CMA1	-2.453747953	-2.054819137	2.33E-25	1.59E-24
SLC11A1	-2.451917945	5.072179846	1.12E-69	3.85E-68
FAM13C	-2.448932874	1.317667195	5.50E-69	1.83E-67
SCN4B	-2.448474394	3.253277173	1.16E-43	1.83E-42
MS4A3	-2.446570314	-3.637646727	4.68E-18	2.07E-17
GPR182	-2.446291552	-1.356038545	5.23E-62	1.44E-60
FRY	-2.443105013	4.46388084	2.75E-70	9.59E-69
CCRL2	-2.441102718	2.482443593	4.58E-66	1.41E-64
ICAM2	-2.440676963	3.132454812	5.47E-71	1.94E-69
KNDC1	-2.439023088	2.266167797	4.71E-27	3.52E-26
GPER1	-2.438220318	1.631045116	1.64E-54	3.67E-53
ITGA10	-2.438160692	1.517224277	1.05E-67	3.40E-66
AHCYL2	-2.43801158	5.619663824	1.44E-105	1.34E-103
MS4A14	-2.437807128	0.953386816	1.38E-53	2.99E-52
SULT1A2	-2.435344558	0.973516184	7.46E-32	7.18E-31
C1QTNF2	-2.431946046	0.426537563	3.58E-69	1.20E-67
CIB4	-2.428091336	-3.904477674	3.63E-22	2.06E-21
SERPIND1	-2.426914333	2.270226794	1.07E-14	3.80E-14
PRSS57	-2.426376467	-3.488664967	6.31E-20	3.11E-19
MAG	-2.425242305	-2.18436794	6.88E-14	2.31E-13
OVCH2	-2.421581709	-0.825832434	5.34E-25	3.58E-24
DNASE1L3	-2.421495892	2.487909455	2.68E-34	2.86E-33
CD55	-2.421030066	7.139213828	1.17E-84	5.82E-83
UBXN10	-2.420835629	2.737795741	8.77E-27	6.46E-26
PID1	-2.420799667	3.657722581	1.92E-53	4.14E-52
CCDC13	-2.420038754	-0.40253198	1.14E-54	2.55E-53

CSF3R	-2.418893521	5.097060141	1.40E-42	2.14E-41
PRELP	-2.418562476	6.143149802	5.07E-40	7.03E-39
ENKUR	-2.41749035	1.326595895	3.04E-30	2.69E-29
TMEM150B	-2.415515355	1.500388612	1.78E-50	3.52E-49
JPH4	-2.415446162	0.621675569	1.63E-32	1.60E-31
CYYR1	-2.413469672	3.825479167	2.74E-76	1.14E-74
GLIPR2	-2.413400301	5.188377146	1.56E-100	1.27E-98
LDB3	-2.412746327	0.537913412	2.08E-69	7.09E-68
NEK10	-2.405515464	0.475146967	3.21E-31	2.98E-30
PTPRM	-2.404155253	5.187947036	5.26E-82	2.47E-80
PRDM16	-2.403239506	2.410497843	3.61E-33	3.67E-32
ADH1A	-2.398268293	-2.59505435	3.24E-28	2.56E-27
PGLYRP1	-2.397142325	-2.51609811	1.65E-36	1.97E-35
RASL12	-2.396734477	3.279348082	7.66E-88	4.20E-86
ENPP2	-2.396696286	5.69906131	1.28E-56	3.04E-55
LMO7DN	-2.396079057	-2.97645441	6.45E-30	5.61E-29
HRCT1	-2.395864809	0.167285116	9.17E-27	6.74E-26
INSC	-2.395362388	-1.384129063	9.34E-27	6.85E-26
SLC17A3	-2.394033853	-3.660329121	5.36E-16	2.08E-15
KCNIP1	-2.392885332	-1.502918536	5.63E-33	5.67E-32
PCDHAC2	-2.391433197	0.163211758	1.34E-31	1.27E-30
DNALI1	-2.389227759	3.303163021	1.48E-28	1.19E-27
FGR	-2.389225649	4.528398109	8.50E-69	2.82E-67
WIF1	-2.38887776	5.231915218	9.08E-11	2.45E-10
ADGRE5	-2.386976887	6.304516422	9.15E-89	5.16E-87
MGP	-2.386271817	7.006588581	1.11E-46	1.94E-45
SH3GL2	-2.383728244	-0.245636405	9.58E-14	3.19E-13
MAB21L2	-2.382217076	-3.953274406	1.02E-24	6.74E-24
CROCC2	-2.38192846	-0.396765221	1.16E-18	5.29E-18
SERPINA1	-2.381862625	8.441084351	1.16E-30	1.05E-29
ASB11	-2.380435249	-3.656421652	7.36E-25	4.87E-24
ARHGAP29	-2.379893269	5.0176719	9.77E-55	2.20E-53
SLC5A4	-2.379847458	-1.082554251	1.55E-30	1.39E-29
ABCA6	-2.37747959	2.4126863	2.11E-59	5.38E-58
DOK2	-2.37607835	3.85632484	8.58E-65	2.59E-63
DAAM2	-2.374668175	3.700125613	3.20E-63	9.12E-62
CFAP161	-2.374140151	-0.664230512	2.99E-35	3.36E-34
SPNS2	-2.372406905	3.972851563	3.07E-61	8.23E-60
DCSTAMP	-2.372056806	0.722959903	2.39E-28	1.90E-27
LRRIQ1	-2.371661841	1.057087529	8.98E-27	6.60E-26
PEAR1	-2.371594862	3.030048732	1.51E-70	5.31E-69
STARD13	-2.371401016	3.757553569	1.17E-76	4.91E-75
CAPN8	-2.370111693	3.342501968	1.75E-19	8.38E-19

HEMGN	-2.369642549	-3.215881636	8.93E-17	3.63E-16
STOML3	-2.367639718	0.590542539	2.29E-15	8.51E-15
RD3	-2.359650318	-2.958808317	1.48E-21	8.06E-21
LILRA5	-2.359239159	2.239289269	9.10E-45	1.48E-43
C10orf128	-2.358792655	3.125415099	7.87E-64	2.29E-62
HGF	-2.358603608	3.128304599	4.04E-38	5.16E-37
FAM124B	-2.358508386	0.540272441	6.77E-60	1.75E-58
NR5A2	-2.357477642	1.508878454	9.44E-73	3.56E-71
C5AR1	-2.354358904	4.884200926	1.96E-66	6.08E-65
CLEC12A	-2.353977381	2.194305559	8.02E-37	9.72E-36
ABCB1	-2.35354286	1.592046837	6.94E-47	1.23E-45
C14orf132	-2.353267174	4.417047495	4.33E-50	8.49E-49
MASP1	-2.350228859	2.164891757	9.30E-26	6.46E-25
CFAP58	-2.348658096	0.059817525	5.35E-36	6.22E-35
IL3RA	-2.348245751	3.333065976	3.29E-105	3.05E-103
NCMAP	-2.34543675	2.102813964	3.34E-37	4.11E-36
RANBP3L	-2.344358518	-0.017987183	6.03E-29	4.96E-28
TM4SF18	-2.342618652	2.335637653	4.71E-63	1.34E-61
PLCXD3	-2.339609847	1.118066603	3.97E-20	1.98E-19
HMCN2	-2.33541749	1.702587419	3.85E-34	4.09E-33
CTSG	-2.335370756	0.506300181	7.63E-24	4.81E-23
FPR1	-2.335336095	4.031231941	1.58E-40	2.24E-39
GRASP	-2.334360533	3.593901949	1.01E-55	2.34E-54
RORC	-2.334262876	3.124297057	2.87E-23	1.74E-22
SLC24A5	-2.333409746	-4.069783034	1.66E-14	5.81E-14
ST6GALNAC5	-2.332492497	2.826103674	7.70E-61	2.04E-59
FAT4	-2.33144705	3.613868999	4.47E-44	7.11E-43
DENND3	-2.331085248	5.310480365	4.47E-73	1.71E-71
LILRA2	-2.330735917	1.623031599	3.93E-38	5.02E-37
NXF3	-2.329159479	0.426254546	1.08E-16	4.39E-16
PPP1R14A	-2.327840869	2.704569572	1.76E-51	3.58E-50
CYP27A1	-2.327531839	5.666213807	8.35E-51	1.67E-49
ERVFRD-1	-2.326586334	-1.417826731	1.49E-19	7.20E-19
FGF18	-2.326389868	0.127018578	6.05E-29	4.97E-28
KCNE1B	-2.326281497	-2.003344195	7.44E-19	3.45E-18
SIGLEC6	-2.326154965	-0.071812514	2.00E-31	1.88E-30
CCDC69	-2.322502635	5.136585446	1.20E-69	4.12E-68
MYL3	-2.320978825	-1.394171464	1.14E-40	1.63E-39
SAXO2	-2.320175514	1.567747594	8.03E-29	6.56E-28
FLT4	-2.318966163	3.927299259	1.40E-85	7.19E-84
GIMAP5	-2.3183435	1.081910401	3.23E-46	5.54E-45
NTN4	-2.316491077	5.313005146	1.05E-55	2.44E-54
EFR3B	-2.314328403	2.326706272	9.69E-36	1.12E-34

PPIL6	-2.31234937	1.677797244	1.77E-43	2.77E-42
APOLD1	-2.312300866	4.461510602	1.97E-85	1.01E-83
AK1	-2.311962738	3.193561362	2.59E-124	3.75E-122
CASC1	-2.311702333	0.262265071	1.21E-29	1.03E-28
DAO	-2.311115745	-3.517638713	5.76E-25	3.84E-24
SERTM2	-2.309846111	-0.384264904	1.85E-13	6.03E-13
DOCK4	-2.309800627	4.596763123	4.49E-97	3.22E-95
CYBRD1	-2.309661037	6.882045496	1.07E-83	5.17E-82
ABCC6	-2.309265633	2.83014082	5.91E-58	1.46E-56
GLOD5	-2.30804516	-1.566245363	1.70E-29	1.44E-28
REN	-2.304283689	-1.573955291	6.93E-31	6.32E-30
CFAP74	-2.303678298	0.969746112	3.21E-20	1.61E-19
ACSS3	-2.302265632	3.105137639	8.01E-39	1.06E-37
CMTM5	-2.300813915	-2.272199073	9.50E-20	4.62E-19
ENG	-2.298686842	6.860895437	1.43E-101	1.20E-99
FRMPD2	-2.29716023	-1.115532679	5.51E-15	2.00E-14
DRC1	-2.297050367	1.498950312	2.50E-16	9.90E-16
TTL9	-2.296920551	-0.365789575	1.49E-28	1.20E-27
FAM189A1	-2.294137303	0.201560452	5.99E-20	2.95E-19
ACSM5	-2.293571186	-0.510170773	5.58E-32	5.39E-31
FAM166B	-2.291558739	0.955297522	2.47E-25	1.69E-24
P2RY14	-2.29098778	1.420600682	1.32E-59	3.38E-58
S1PR4	-2.288462404	2.201433204	3.63E-51	7.31E-50
TRPV2	-2.286440086	4.583161588	1.56E-77	6.69E-76
ZFP36	-2.284576435	8.182940017	2.59E-57	6.26E-56
CORO2B	-2.284454459	1.902282644	5.56E-38	7.09E-37
WDR78	-2.283701183	1.792054836	6.77E-41	9.71E-40
ITM2A	-2.282437206	4.109840168	5.12E-47	9.09E-46
STAB2	-2.279940142	0.651114969	9.66E-37	1.17E-35
CITED2	-2.279456581	5.936104626	4.19E-74	1.65E-72
C7orf57	-2.278623023	0.129226524	1.58E-22	9.19E-22
GATA1	-2.276807437	-2.11873456	1.36E-50	2.71E-49
ACOX2	-2.276069141	1.898473521	5.08E-51	1.02E-49
FLI1	-2.272371107	4.311494752	3.66E-68	1.19E-66
STXBP6	-2.271288237	3.684895378	1.58E-28	1.27E-27
CXCR2	-2.270424735	1.865615883	9.03E-26	6.27E-25
DNAH6	-2.26764207	1.399420519	1.75E-22	1.01E-21
GPRIN2	-2.265500637	2.590065113	5.25E-35	5.83E-34
MYH1	-2.263055618	-2.824625528	6.42E-15	2.32E-14
ANXA3	-2.260985749	5.623607242	7.76E-40	1.07E-38
SPEF1	-2.259328027	0.282587271	4.27E-25	2.87E-24
10-Mar	-2.259176582	-0.238185395	6.51E-31	5.94E-30
TSPAN19	-2.256350951	0.294450001	4.25E-10	1.10E-09

FGF9	-2.255998505	-0.271271855	5.58E-20	2.76E-19
TMEM132D	-2.255691754	-0.545430121	5.28E-10	1.35E-09
SH2D4B	-2.254837141	-1.481717564	1.78E-36	2.12E-35
ANO5	-2.251870504	1.055641902	7.77E-26	5.42E-25
LRRC10B	-2.250627534	1.430326909	5.67E-18	2.49E-17
LIFR	-2.249495836	5.584094463	6.84E-35	7.58E-34
USP44	-2.246135835	1.435634667	6.56E-41	9.42E-40
FCER1A	-2.245941427	1.357430662	1.36E-23	8.43E-23
SLC5A8	-2.243824816	1.177260649	1.80E-12	5.50E-12
SLC4A1	-2.243730627	-1.774593849	2.10E-11	5.96E-11
SLCO2B1	-2.243508138	6.160616615	7.69E-42	1.15E-40
RNASE4	-2.242646967	0.107720991	1.10E-73	4.28E-72
NTRK3	-2.237113089	1.080928705	1.81E-17	7.70E-17
FOS	-2.236644561	8.130290937	3.96E-36	4.64E-35
WFIKKN2	-2.236366882	-2.056259705	1.73E-16	6.92E-16
KLHL41	-2.236328499	-1.424690656	2.04E-36	2.42E-35
IYD	-2.236127833	0.357006351	2.48E-16	9.83E-16
GREM2	-2.235937364	0.091717063	7.55E-25	4.99E-24
ANKRD29	-2.235554561	4.169446473	1.74E-36	2.08E-35
SCIMP	-2.234153001	2.712081008	2.62E-40	3.67E-39
CPA3	-2.229585268	4.59638232	3.16E-32	3.09E-31
SLC9A3R2	-2.229440888	5.678602701	1.04E-99	8.17E-98
CTSH	-2.228896885	8.162213574	8.89E-53	1.87E-51
MGLL	-2.22856557	6.445476522	3.01E-53	6.42E-52
CABLES1	-2.228379625	3.969867524	1.03E-57	2.51E-56
TMEM163	-2.228340642	3.356577115	8.43E-36	9.75E-35
TTC25	-2.227873415	1.353181555	1.70E-38	2.21E-37
CCDC17	-2.226747715	2.108606898	8.29E-26	5.77E-25
PNMA8C	-2.226268675	-4.003289647	1.11E-12	3.44E-12
SCARF1	-2.225305302	3.584093136	5.86E-89	3.32E-87
S100A4	-2.224995522	6.728661701	1.17E-64	3.52E-63
ALS2CR12	-2.224914713	-0.62085986	6.66E-41	9.56E-40
FLVCR2	-2.224805075	3.386155017	4.44E-64	1.31E-62
CD101	-2.223693866	2.453524678	1.63E-82	7.77E-81
CD300E	-2.22357754	2.411585482	7.06E-37	8.59E-36
PTPRN2	-2.223245765	2.842461027	2.27E-41	3.32E-40
SFRP5	-2.222638344	1.259398718	8.15E-13	2.55E-12
HPR	-2.22251592	-1.823820468	9.44E-13	2.94E-12
SECISBP2L	-2.219683075	5.650010494	9.06E-191	6.36E-188
ST6GALNAC3	-2.218897166	1.439366851	1.19E-36	1.42E-35
PTGIS	-2.218078127	4.642931201	2.49E-35	2.82E-34
MNDA	-2.217413657	3.858380474	4.34E-44	6.90E-43
PLEKHH2	-2.216359146	3.94010407	1.28E-48	2.40E-47

CD69	-2.216255369	3.327249202	1.85E-34	1.99E-33
RGS5	-2.216153367	5.941440397	1.40E-60	3.69E-59
NTM	-2.213576837	4.272171286	1.80E-41	2.64E-40
PAPSS2	-2.213301571	5.915663783	1.35E-41	2.00E-40
OR1L8	-2.213100346	-3.622036424	1.51E-34	1.64E-33
ABLIM3	-2.21058322	3.806524201	7.36E-41	1.05E-39
SMTNL2	-2.209302806	0.480193145	1.31E-23	8.13E-23
TRPC3	-2.208046659	-1.297184764	3.47E-41	5.06E-40
C11orf21	-2.207590044	0.65407477	4.16E-33	4.21E-32
PRTG	-2.205909319	1.21733257	6.73E-23	4.00E-22
ADAMTSL4	-2.203872445	4.744691475	2.01E-33	2.07E-32
BMP2	-2.20380106	4.525825986	3.89E-34	4.13E-33
RGS13	-2.203124395	0.353795165	3.08E-23	1.87E-22
TLR8	-2.203023215	2.709638528	2.72E-30	2.42E-29
LILRA1	-2.202853163	0.573807649	6.04E-49	1.14E-47
RGS7BP	-2.200319963	-0.365843793	5.13E-23	3.07E-22
KLF15	-2.199695499	2.314843201	1.50E-35	1.72E-34
NHLRC4	-2.1990021	0.456794857	3.03E-37	3.73E-36
CEACAM21	-2.197789693	1.025203698	2.10E-44	3.37E-43
SNX25	-2.19351038	4.366241396	1.87E-146	4.39E-144
DLL4	-2.192662315	3.955835567	6.29E-84	3.07E-82
RBMS3	-2.192372783	3.747971423	1.42E-71	5.12E-70
ADGRB3	-2.191886432	0.123589966	4.67E-19	2.19E-18
NEXN	-2.191077388	3.350298912	9.59E-58	2.35E-56
MAATS1	-2.190341688	1.51947413	9.25E-22	5.13E-21
TMEM204	-2.187609654	4.076069035	2.06E-80	9.52E-79
TM6SF1	-2.187147604	1.580469406	6.59E-57	1.57E-55
GIPC2	-2.187121138	1.529668744	9.26E-23	5.47E-22
KIF19	-2.186256253	1.231360575	5.13E-21	2.70E-20
GYPC	-2.18610735	4.291663676	3.23E-53	6.89E-52
CFAP45	-2.184066231	1.818331589	1.55E-31	1.47E-30
MYLK3	-2.18383479	-0.956621095	6.39E-29	5.24E-28
KIR2DL3	-2.183136959	-2.656439871	4.28E-17	1.78E-16
MEOX2	-2.181879936	1.828167495	2.53E-31	2.37E-30
LY86	-2.181683107	2.805672495	7.80E-44	1.23E-42
KCNE1	-2.181123997	-0.255522455	9.99E-32	9.53E-31
PDE4C	-2.180920621	1.746039073	3.06E-31	2.84E-30
ADGRL4	-2.17828625	3.855554853	1.17E-76	4.91E-75
SLC22A3	-2.177438893	3.653896781	6.71E-21	3.51E-20
ITGA9	-2.1772277	4.118582915	3.22E-47	5.73E-46
SPRY4	-2.176568886	5.351249259	8.85E-73	3.35E-71
PRKCE	-2.176534628	4.174798016	3.52E-136	6.85E-134
ENPP4	-2.174626572	4.233177039	1.76E-46	3.05E-45

ERICH2	-2.173978275	0.401873828	1.15E-30	1.04E-29
CMTM2	-2.1738495	-0.679862803	5.24E-30	4.57E-29
C2CD4B	-2.172966552	1.443212974	1.10E-22	6.46E-22
CELA2B	-2.172887822	-2.142015453	4.64E-40	6.45E-39
WSCD1	-2.172635748	1.85347699	5.22E-22	2.93E-21
GJA5	-2.171047533	4.515972397	4.39E-39	5.88E-38
FAM180B	-2.169938785	-3.56718291	1.15E-23	7.17E-23
GPC5	-2.168862198	0.240439015	2.10E-12	6.39E-12
KLHL32	-2.167806933	-0.370359685	2.57E-24	1.66E-23
DISP1	-2.165692953	3.115350462	2.18E-75	8.95E-74
SPATA18	-2.1653484	3.238556549	5.51E-35	6.11E-34
SELPLG	-2.162724742	5.002063955	1.65E-54	3.69E-53
CRYM	-2.162162869	2.032306689	9.74E-16	3.73E-15
NR4A2	-2.160526422	4.469183374	9.07E-40	1.25E-38
PDZD2	-2.159590573	4.936773808	1.73E-25	1.19E-24
AQP9	-2.157281382	3.673191757	3.13E-31	2.90E-30
MS4A6E	-2.157083785	-2.931430022	1.46E-14	5.13E-14
ARHGEF38	-2.155288664	1.634134938	4.70E-29	3.89E-28
KCTD16	-2.154772376	0.1100075	2.12E-26	1.52E-25
KMO	-2.154004126	1.719940719	3.47E-42	5.22E-41
IGSF10	-2.150117574	3.93108184	1.58E-26	1.14E-25
CYR61	-2.149935674	7.330876295	2.22E-43	3.46E-42
CCL16	-2.149653898	-3.043230755	6.74E-14	2.27E-13
SEL1L2	-2.148997716	-4.129983803	8.36E-14	2.80E-13
CBLN4	-2.147694684	-0.536545083	4.84E-14	1.64E-13
PCDHGA12	-2.145051659	0.902414241	7.60E-43	1.16E-41
KLRF1	-2.144646541	-0.030973607	2.46E-26	1.76E-25
ATP11A	-2.144590063	6.44205435	1.47E-64	4.41E-63
C5	-2.142809639	3.497643227	1.61E-41	2.37E-40
CRIP1	-2.137512988	1.947148204	6.19E-38	7.87E-37
KLF9	-2.135531778	5.608891404	6.75E-67	2.13E-65
DHH	-2.134514688	-2.168095469	4.59E-35	5.11E-34
ADARB1	-2.134361418	4.516608629	2.15E-67	6.87E-66
PIEZO2	-2.132591576	3.362810687	4.26E-32	4.12E-31
GATA5	-2.130583913	-0.334999464	7.18E-16	2.77E-15
SLC16A4	-2.130028057	2.970178657	3.24E-34	3.46E-33
APOBR	-2.129911763	3.901872891	1.07E-54	2.41E-53
METTTL21C	-2.12867227	-4.139186605	6.25E-18	2.73E-17
PYGM	-2.127821711	0.120152611	5.52E-59	1.39E-57
CD83	-2.127491585	5.031865194	1.75E-63	5.02E-62
TNFRSF10C	-2.124689629	1.477307736	1.39E-37	1.73E-36
TRIM58	-2.1235035	-0.20117689	9.20E-11	2.48E-10
SLC18A2	-2.123499458	0.546719433	1.22E-39	1.68E-38

NLRP3	-2.12184767	2.088707963	5.93E-41	8.54E-40
HHLA2	-2.12100737	0.718686156	4.23E-17	1.76E-16
MAP3K15	-2.118353106	-0.861700849	9.69E-26	6.72E-25
SH2D1B	-2.117067718	-0.265220901	8.28E-30	7.13E-29
CYB5A	-2.115385249	6.408448897	5.16E-64	1.51E-62
ATP1B2	-2.115160971	0.998159095	1.94E-41	2.84E-40
MFNG	-2.113809819	3.738356162	1.24E-58	3.11E-57
PRUNE2	-2.111493455	2.764347962	4.65E-34	4.92E-33
TNFSF13	-2.111338097	3.709230843	3.59E-88	2.01E-86
COX7A1	-2.110594662	2.37757073	1.60E-46	2.77E-45
KCNK17	-2.10965221	0.413017241	4.12E-28	3.24E-27
TGM2	-2.109496276	8.295953233	1.24E-34	1.35E-33
TLR4	-2.107577306	4.181894675	1.62E-39	2.22E-38
SULT1C4	-2.107292928	1.627875033	3.57E-22	2.03E-21
PDE1B	-2.10398114	1.854952018	6.22E-60	1.61E-58
AC010547.4	-2.102119402	-3.963649348	2.50E-25	1.70E-24
CD33	-2.101452123	2.181306971	5.15E-46	8.78E-45
TMEM130	-2.100443974	2.470978724	1.10E-23	6.84E-23
CD40LG	-2.097027844	0.187625634	3.98E-25	2.68E-24
SLC6A13	-2.094449591	-0.878613977	1.82E-22	1.05E-21
PDLIM2	-2.094116831	4.533755576	1.27E-100	1.05E-98
SH3BP5	-2.093720076	3.297176578	1.78E-60	4.67E-59
HK3	-2.093628345	3.808687573	6.72E-36	7.80E-35
SPTBN1	-2.092718074	8.603932709	2.33E-156	6.87E-154
ADGRA1	-2.092151864	-1.994151457	1.12E-09	2.79E-09
ZEB2	-2.092077971	5.319615415	4.09E-64	1.21E-62
AARD	-2.092008091	0.785587263	9.74E-16	3.73E-15
GFRA1	-2.09159405	2.331387391	4.79E-18	2.11E-17
GALNT16	-2.090401708	1.269907791	5.75E-20	2.84E-19
SIGLEC1	-2.089792949	4.660215154	8.07E-35	8.90E-34
MROH2B	-2.08965724	-3.69365492	2.41E-10	6.35E-10
SLN	-2.088915203	-1.338822251	3.14E-16	1.23E-15
PTGIR	-2.084998662	2.367331166	1.15E-53	2.51E-52
SASH1	-2.083748564	5.173767737	4.04E-87	2.18E-85
KIF17	-2.082970784	1.280960255	2.63E-48	4.88E-47
SPARCL1	-2.082543218	7.954276815	1.53E-36	1.83E-35
RAB37	-2.082014703	2.052528205	5.33E-47	9.46E-46
TEX26	-2.081913291	-1.764081145	1.88E-10	4.98E-10
NFE2	-2.080962498	0.802406603	1.23E-21	6.74E-21
ANK2	-2.080939293	3.081460459	4.91E-34	5.19E-33
B3GALT2	-2.078955629	0.42738068	1.10E-17	4.72E-17
ARHGEF6	-2.078381108	4.394212913	5.63E-56	1.32E-54
MUC1	-2.078015048	7.597276547	5.94E-27	4.42E-26

TMC5	-2.07450495	4.63591041	3.44E-20	1.73E-19
P2RY12	-2.072815491	0.040846861	2.21E-18	9.95E-18
HBD	-2.071353515	-2.762146458	1.61E-15	6.07E-15
WFS1	-2.070829508	5.79047438	4.34E-117	5.21E-115
SPI1	-2.070804352	5.161870504	2.96E-51	5.99E-50
RSPH10B	-2.068778682	-2.436787693	2.51E-29	2.11E-28
NEDD9	-2.068667717	6.927832346	2.30E-53	4.94E-52
SRD5A2	-2.06814768	0.23727752	9.76E-12	2.84E-11
CYS1	-2.065824644	2.119849271	7.29E-30	6.32E-29
MFSD2A	-2.065799688	5.163064751	1.62E-45	2.70E-44
IL33	-2.06458981	5.102798269	2.48E-22	1.42E-21
DAPK1	-2.064314281	5.670318891	6.01E-39	7.98E-38
DDO	-2.062925492	0.991160178	1.58E-30	1.42E-29
TBX5	-2.06213399	2.965156158	1.76E-47	3.17E-46
C2	-2.061910213	5.506815962	1.34E-47	2.43E-46
RASSF2	-2.061062098	4.942397374	1.03E-39	1.42E-38
HLA-DRB5	-2.060963773	7.382135954	1.30E-26	9.43E-26
C10orf95	-2.060050646	0.228901694	5.95E-45	9.73E-44
FCRL6	-2.058617053	0.537080458	1.15E-31	1.09E-30
BTK	-2.058255554	3.528221326	3.08E-42	4.65E-41
TGFBR3	-2.058050483	4.912180696	7.23E-37	8.79E-36
LAMC3	-2.057937888	4.339267557	2.41E-37	2.97E-36
EDN1	-2.055844643	4.840373657	1.56E-30	1.39E-29
LPCAT1	-2.05543902	7.769291886	1.87E-40	2.64E-39
RUNX1T1	-2.055365098	2.067943897	1.31E-34	1.42E-33
GPR4	-2.0552968	2.877885565	9.78E-80	4.38E-78
TRPC6	-2.054447965	3.366235459	6.06E-33	6.10E-32
SCNN1B	-2.052897494	4.863795702	6.77E-24	4.28E-23
B3GNT7	-2.051431728	4.51166864	3.76E-32	3.65E-31
DKK2	-2.051363313	2.58029861	3.81E-18	1.69E-17
LRCOL1	-2.051162189	-2.105162086	1.18E-21	6.52E-21
DOCK8	-2.050068445	5.113910162	3.86E-44	6.15E-43
BMX	-2.048958502	0.76179308	2.66E-23	1.62E-22
NINJ2	-2.048081364	2.967835459	5.30E-42	7.95E-41
MAOB	-2.045707898	4.143647664	6.97E-29	5.71E-28
OR2W3	-2.043753109	-2.451519638	4.43E-09	1.06E-08
IL7R	-2.043333945	6.046086692	9.25E-31	8.41E-30
C2orf50	-2.043312643	-0.761010555	1.20E-21	6.62E-21
FCAR	-2.042656278	-0.162407372	1.41E-21	7.73E-21
GJA4	-2.041650751	2.981813998	2.50E-57	6.06E-56
PCDH20	-2.04131073	-2.483195214	6.28E-15	2.27E-14
SYNE3	-2.040006215	3.381382779	4.07E-48	7.50E-47
TIMP3	-2.038836395	3.583867878	1.04E-23	6.48E-23

SEPT4	-2.03658361	3.1555219	6.15E-62	1.68E-60
ALDH2	-2.035823586	7.085474882	4.37E-62	1.20E-60
GADL1	-2.035777709	-2.598175285	1.85E-17	7.85E-17
GRAPL	-2.0347273	-3.545037823	1.07E-26	7.81E-26
PTPRQ	-2.033691077	1.396196007	9.28E-15	3.32E-14
CFAP206	-2.03310696	-2.173296182	5.28E-20	2.61E-19
OCLN	-2.031634296	3.494548994	2.59E-47	4.60E-46
CCDC81	-2.030242784	-0.205261908	1.16E-47	2.11E-46
AC119396.1	-2.030013743	-1.004062737	9.32E-27	6.84E-26
OLFML1	-2.028553866	3.338107625	1.63E-43	2.55E-42
CFAP57	-2.028404313	1.75008655	1.70E-16	6.79E-16
KLF6	-2.028145482	7.429732718	8.65E-70	2.99E-68
AC010255.3	-2.027902677	-3.565455319	2.29E-12	6.96E-12
DOCK11	-2.027534994	4.304092883	1.08E-55	2.51E-54
TMEM233	-2.027197688	-0.458640944	3.30E-48	6.09E-47
SIGLEC5	-2.026699118	-0.497478151	6.22E-28	4.86E-27
PLA2G10	-2.026220433	-0.682583796	2.28E-31	2.13E-30
FCGR3B	-2.025899241	2.475922706	1.86E-13	6.07E-13
ENO4	-2.025735693	-1.365318053	1.83E-35	2.08E-34
ADAMTS4	-2.025366905	5.270777038	1.34E-30	1.21E-29
CAT	-2.022395004	6.521111912	3.14E-94	2.01E-92
SNX30	-2.02158182	5.389204617	8.81E-116	1.03E-113
ZNF474	-2.019212095	-0.217023791	2.45E-21	1.32E-20
C14orf180	-2.018984224	-3.226490391	4.48E-08	9.87E-08
SYNC	-2.018676871	1.259382381	2.19E-53	4.72E-52
GMFG	-2.018265945	4.304804653	1.63E-47	2.93E-46
SMAD9	-2.018011842	2.723485287	3.96E-39	5.31E-38
CYBB	-2.016323381	6.323058467	1.30E-31	1.23E-30
TRIM63	-2.015213635	-2.247651871	1.38E-11	3.96E-11
FAM47E	-2.013838952	0.285481109	3.36E-35	3.77E-34
KIF6	-2.013028365	0.376092789	2.25E-22	1.30E-21
UTRN	-2.012223181	6.50518999	4.68E-83	2.25E-81
PLA2G12B	-2.011916523	-0.621780557	8.69E-07	1.73E-06
LHFPL6	-2.010701637	4.797052376	2.43E-74	9.68E-73
TSPAN4	-2.010268868	5.095197325	2.00E-60	5.23E-59
TCIM	-2.010112522	6.708435225	5.12E-27	3.81E-26
MMP28	-2.009819489	3.933674533	4.37E-16	1.71E-15
GIMAP4	-2.009082249	4.648241022	1.41E-44	2.29E-43
PLIN5	-2.008123509	1.01831933	2.60E-26	1.86E-25
ITGA1	-2.007047904	5.678685726	2.17E-72	8.08E-71
CD163	-2.004555624	6.371583596	1.69E-27	1.29E-26
PCDH17	-2.004515031	4.427904759	2.95E-46	5.07E-45
DSCAML1	-2.002910413	-0.084290406	2.49E-16	9.87E-16

DDAH1	-2.001329096	5.032452225	8.00E-46	1.35E-44
DYSF	-2.000550262	4.890335869	1.88E-48	3.51E-47
GAL3ST3	2.00163801	-2.581366897	0.000768767	0.001176193
MTHFD2	2.001922242	7.139202202	8.95E-33	8.95E-32
E2F1	2.002117317	4.7834626	1.08E-35	1.24E-34
RPP40	2.003931222	3.244503343	1.79E-44	2.90E-43
EFCAB8	2.005083745	-0.964431213	3.47E-07	7.12E-07
DGKA	2.006387068	6.463593534	6.49E-33	6.53E-32
CLGN	2.006642415	2.662283193	7.43E-09	1.75E-08
ALLC	2.006772883	-2.987456632	2.31E-05	4.05E-05
MYPN	2.006800399	-1.90068346	0.001066178	0.001609927
NTN3	2.006850469	-1.674224867	1.80E-09	4.44E-09
SMKR1	2.008617158	1.227823815	6.98E-11	1.91E-10
GNRHR	2.009847005	-1.550353612	1.12E-06	2.20E-06
PCDH7	2.010413261	5.455229713	5.71E-11	1.57E-10
SERINC2	2.011346145	7.595262978	3.09E-16	1.22E-15
TRIM31	2.011569691	1.355226967	6.26E-07	1.26E-06
SPRED3	2.011772145	1.957854975	5.75E-17	2.37E-16
TRIM45	2.012625841	3.354632409	2.31E-25	1.58E-24
SLC10A6	2.013077292	1.048700914	3.65E-07	7.47E-07
EFS	2.014397308	5.927282018	1.79E-27	1.37E-26
FRMD5	2.014734447	1.293915041	3.14E-09	7.62E-09
FLG	2.014859882	1.44153528	1.02E-07	2.18E-07
RET	2.015383001	2.529379899	3.57E-07	7.32E-07
MEIOC	2.018454832	0.07850393	2.46E-10	6.48E-10
LINC00483	2.019379812	-4.014616333	0.00015321	0.000250322
EPHB2	2.019530086	5.265837627	4.43E-15	1.62E-14
FANCG	2.019809511	5.028151548	2.63E-35	2.97E-34
ERC2	2.022087377	1.42159888	1.30E-13	4.29E-13
IGFBP1	2.023641266	-0.060110814	0.002315739	0.003373282
TUBAL3	2.024631994	-0.280025726	4.89E-09	1.17E-08
SEPT3	2.024781355	3.35659675	3.93E-13	1.26E-12
GNAT1	2.02560209	-3.106320032	1.02E-05	1.84E-05
DNAH17	2.025689203	4.66589658	2.35E-09	5.75E-09
FANCD2	2.025748155	4.643525286	2.70E-55	6.20E-54
CCDC58	2.027011592	4.63622406	1.81E-42	2.75E-41
AKR1D1	2.02896089	-2.675048644	2.50E-07	5.18E-07
SMOX	2.030454101	4.702619741	3.72E-25	2.50E-24
STX1A	2.03171433	3.380019021	1.37E-26	9.95E-26
SOX9	2.031897403	5.681047885	3.84E-13	1.23E-12
ADAM32	2.033522542	0.632119516	4.42E-14	1.51E-13
PRSS55	2.033911548	-4.015641378	0.000767617	0.00117463
PIR	2.035913507	5.605593926	2.33E-19	1.11E-18

NUDT1	2.036580603	4.872976395	6.33E-47	1.12E-45
EPOP	2.036812519	3.76568886	2.68E-21	1.43E-20
ERO1A	2.03686383	7.906275748	1.80E-26	1.30E-25
ME1	2.038438203	6.653488401	1.81E-12	5.54E-12
HNF4G	2.039621515	1.565183676	3.99E-12	1.19E-11
GLIS1	2.040328458	0.217285084	2.50E-09	6.10E-09
FAXC	2.041164853	4.07948519	3.71E-15	1.36E-14
LDHC	2.042209098	-0.649005731	3.37E-05	5.83E-05
EFNA4	2.042453654	4.11049047	1.99E-54	4.41E-53
GEN1	2.043644288	4.808195696	7.67E-47	1.35E-45
HGFAC	2.044202918	-1.19749125	2.00E-08	4.55E-08
OCA2	2.044856177	2.123883723	1.26E-05	2.27E-05
CFHR3	2.044868103	0.381044524	5.36E-13	1.69E-12
SCRT2	2.045732064	-4.108010118	0.002006483	0.002943679
LRAT	2.047994365	2.44503294	1.15E-07	2.44E-07
PRSS22	2.048164635	5.208866114	5.04E-13	1.60E-12
PLOD2	2.048573415	7.180714755	1.23E-23	7.64E-23
SFXN1	2.048989344	6.191617455	5.39E-46	9.18E-45
LRRC9	2.049187233	-1.069064446	9.59E-11	2.59E-10
FAM162A	2.04933345	6.835834311	1.37E-32	1.36E-31
CIB2	2.051594681	3.54451055	1.05E-19	5.12E-19
CYP2C18	2.051687319	2.501735901	3.62E-08	8.03E-08
STARD5	2.052865698	3.195640195	1.61E-26	1.16E-25
CYSRT1	2.054683468	1.501828128	1.12E-11	3.25E-11
FMO1	2.05637536	3.278385763	4.14E-09	9.94E-09
ABCC1	2.058104477	8.446215974	7.04E-18	3.07E-17
RCCD1	2.059559948	4.368367936	1.45E-47	2.63E-46
FAM110C	2.059619677	5.371143383	6.18E-14	2.08E-13
CDH24	2.059938562	4.380726024	2.30E-33	2.36E-32
MFAP2	2.060756033	5.825526938	6.19E-20	3.05E-19
PGBD5	2.060999733	4.576574388	2.21E-10	5.84E-10
RPS10-NUDT3	2.061099589	-2.929349295	1.27E-09	3.16E-09
KCNK4	2.063769519	-4.01419103	9.19E-05	0.000153382
PSRC1	2.064572553	3.702934483	1.64E-41	2.42E-40
GGCT	2.064878598	5.945643754	6.05E-50	1.18E-48
GPR78	2.065318863	-0.742709374	7.53E-09	1.77E-08
GLRA2	2.065737424	-3.216287254	6.31E-06	1.16E-05
MED12L	2.066131077	1.961884273	2.26E-17	9.53E-17
PPP1R3G	2.067060337	2.403199527	1.00E-17	4.33E-17
ZNF724	2.067707318	1.058409873	7.24E-14	2.43E-13
CKAP2	2.068620077	5.61600471	5.48E-56	1.29E-54
FIGNL1	2.069372992	4.730655215	1.64E-45	2.73E-44
PROKR1	2.06954743	-2.023800217	1.64E-06	3.17E-06

WSCD2	2.069711348	2.286148692	8.14E-06	1.49E-05
SYT1	2.072098632	3.580080111	2.69E-15	9.94E-15
TM4SF19-TCT12	2.072128812	-2.601458588	3.66E-11	1.02E-10
IGF2	2.072273811	7.661536054	0.000106572	0.000176468
HS6ST3	2.073972561	0.63569294	0.00011882	0.000195844
MCF2	2.074907165	-1.183262443	4.40E-07	8.95E-07
KRTAP1-5	2.075184499	-3.809496448	0.000231305	0.000372084
RGS17	2.076136227	1.770912064	2.46E-13	7.96E-13
LHFPL4	2.077334016	-0.406701358	0.000627129	0.000969638
MSX2	2.078042132	2.041787737	9.00E-10	2.27E-09
KNSTRN	2.079035867	4.884115762	2.70E-55	6.20E-54
ZNF367	2.079659158	3.660308668	3.16E-30	2.80E-29
CLDN8	2.080093859	3.438141858	6.21E-05	0.000105089
LRP8	2.080444115	5.365659409	1.06E-21	5.86E-21
RIMBP2	2.081103037	1.421844766	2.38E-06	4.55E-06
LTB4R2	2.082132403	2.643258889	1.34E-18	6.11E-18
ACKR3	2.082481025	7.51741315	6.44E-13	2.03E-12
CCDC190	2.084149188	3.727075438	0.00013161	0.000216183
CD24	2.085607659	8.699347627	2.32E-11	6.57E-11
NRTN	2.086410586	0.957974785	3.15E-15	1.16E-14
AL360181.3	2.086739204	-3.309979778	1.22E-14	4.31E-14
FANCD2OS	2.090381352	-3.419493652	5.28E-14	1.79E-13
KRTAP5-9	2.094295886	-1.050077207	4.66E-07	9.45E-07
KRT80	2.094841064	5.780819144	2.20E-13	7.14E-13
CENPL	2.095063272	3.785569007	1.99E-53	4.30E-52
ADAMTSL5	2.09567778	2.676535089	1.65E-15	6.19E-15
SCN2A	2.096025115	2.006737703	3.96E-06	7.44E-06
STON2	2.096957172	5.401008198	2.26E-21	1.21E-20
HAS3	2.099296038	7.623286492	9.28E-12	2.71E-11
SV2A	2.099937939	3.999528589	2.98E-16	1.17E-15
VAX2	2.1006935	1.017938861	2.18E-13	7.10E-13
FXYD3	2.101660786	8.966771836	4.97E-14	1.69E-13
HES7	2.10285097	-2.064296406	9.06E-09	2.12E-08
LMNB1	2.103289885	6.048496094	1.39E-50	2.76E-49
PPM1J	2.104533018	1.770774119	4.75E-25	3.19E-24
POLR2H	2.105029135	6.654965167	7.69E-45	1.26E-43
ZNF703	2.105502206	6.19516203	1.91E-19	9.16E-19
SHMT2	2.105779839	7.446747749	9.57E-62	2.61E-60
GRIN1	2.105946317	0.111986753	2.01E-10	5.32E-10
C1QL2	2.106684568	-0.669715575	0.002458723	0.003573303
CBR1	2.107693404	7.65739265	5.37E-13	1.70E-12
KRTAP16-1	2.107791364	-4.02873628	0.000622656	0.000962966
PPP1R14B	2.108340826	6.548462792	8.97E-47	1.57E-45

SIAH2	2.10850725	6.559307223	2.04E-39	2.77E-38
SGO2	2.111635219	4.01545705	2.47E-46	4.26E-45
NUDT8	2.112457499	3.7355814	7.15E-25	4.73E-24
CHAC2	2.112789758	3.073185034	1.49E-26	1.08E-25
H2AFX	2.113419114	6.123310366	1.35E-45	2.26E-44
FBXO32	2.115513792	6.201410982	3.54E-25	2.39E-24
FAM178B	2.11650949	0.884346899	1.80E-07	3.78E-07
PIGX	2.119135808	6.148248069	1.68E-31	1.58E-30
HSPA4L	2.120606375	5.001283302	5.85E-25	3.90E-24
NRARP	2.121243752	4.720720122	4.81E-18	2.12E-17
VSX1	2.122693287	-2.767746937	2.69E-05	4.69E-05
ANXA8	2.122910602	5.320072187	6.93E-11	1.89E-10
VPS37D	2.124527409	2.178110248	4.83E-20	2.40E-19
DBF4	2.12495445	4.526126411	1.14E-51	2.33E-50
HIST1H4K	2.125897286	-1.981432786	3.41E-14	1.17E-13
OR1J1	2.126267709	-3.521730885	5.07E-08	1.11E-07
ASCL2	2.127522502	2.230907124	8.54E-17	3.48E-16
C1orf105	2.1276472	-3.447432392	6.63E-05	0.000112023
CDH7	2.128411515	-1.209511474	0.001407244	0.002098578
HTR3E	2.129408295	-2.11618936	0.000261038	0.000417779
VSIG10L	2.1295922	3.657945108	1.16E-11	3.35E-11
CD200R1L	2.129601334	-2.060923839	4.92E-10	1.26E-09
DDX4	2.129821882	-3.074027977	2.55E-05	4.46E-05
RFX6	2.130904181	-2.770111639	0.001140746	0.001717275
CLDN16	2.131558574	2.812382747	1.04E-08	2.41E-08
SELENOI	2.132720054	6.679768156	3.71E-40	5.17E-39
MCM7	2.133467855	7.786054126	4.80E-56	1.13E-54
RNFT2	2.134033376	2.654447514	7.74E-15	2.78E-14
YDJC	2.134689045	5.213575971	9.70E-38	1.22E-36
GPI	2.135002114	9.563803799	3.13E-37	3.85E-36
HSPB1	2.136227241	10.09416038	4.36E-25	2.93E-24
SLC22A7	2.136472578	-3.223592967	0.000262064	0.000419348
PC	2.136532685	5.617551237	1.18E-19	5.71E-19
DUOXA2	2.137576383	1.65698922	2.78E-08	6.24E-08
IGLL1	2.140015528	-0.830433586	4.17E-06	7.80E-06
ARID3C	2.141497052	-2.344905225	1.33E-11	3.83E-11
LAMC2	2.142559548	9.474351003	1.48E-11	4.24E-11
PDK1	2.146983182	5.894582986	5.69E-42	8.52E-41
AIM2	2.148745962	3.341950506	8.29E-11	2.25E-10
POU4F2	2.148853832	-4.128387369	0.002528884	0.003670759
PRDM14	2.150554212	-4.094721011	0.003412471	0.004880223
VSTM5	2.151583917	0.921393909	4.84E-14	1.64E-13
MDFI	2.152268752	5.437628205	1.13E-21	6.24E-21

CERS1	2.154730464	-0.020754233	3.23E-07	6.65E-07
GINS3	2.154912471	4.017667737	3.78E-49	7.18E-48
C1QTNF6	2.15598135	5.298606718	4.95E-25	3.32E-24
TMEM45A	2.156236502	6.210789898	1.78E-12	5.45E-12
INAVA	2.156445104	5.246633089	7.65E-33	7.68E-32
ATP2A1	2.161013406	1.209876724	1.68E-24	1.09E-23
CD70	2.161631167	1.728311274	6.41E-07	1.28E-06
MYH7	2.162249938	-2.673430744	8.23E-06	1.50E-05
NCAPD2	2.162378655	7.59853075	2.39E-51	4.86E-50
SYT2	2.162657354	1.559671674	7.97E-10	2.02E-09
FGFR3	2.163045881	7.300598829	2.91E-12	8.77E-12
DKK1	2.163473206	4.137665847	1.46E-08	3.37E-08
ANKRD7	2.163648909	-1.29513002	8.57E-11	2.32E-10
UMODL1	2.164960922	0.669230794	1.43E-06	2.79E-06
LYPD2	2.165463339	1.037283921	0.000171338	0.000278785
USH1C	2.166051429	1.247506212	1.43E-06	2.78E-06
SYT7	2.166730806	4.738797292	1.43E-14	5.02E-14
CEND1	2.1670129	-0.779164501	6.53E-10	1.66E-09
SYT16	2.168480536	-0.061134077	1.15E-09	2.87E-09
C8orf74	2.169505178	-3.386048053	0.000103491	0.000171707
THSD7B	2.169517042	1.827100741	1.34E-06	2.62E-06
SRD5A1	2.170952643	5.385618227	1.74E-29	1.48E-28
C5orf60	2.171452013	-3.06872679	1.95E-09	4.79E-09
KCNK12	2.172665629	-0.787168508	8.09E-12	2.37E-11
ZG16B	2.172891787	2.560883537	7.44E-08	1.61E-07
RIPPLY3	2.172905657	1.363697672	2.61E-10	6.85E-10
RND2	2.173397892	3.107864064	1.35E-11	3.90E-11
OR56B4	2.17382609	-2.605197667	1.35E-08	3.10E-08
NYAP1	2.17470661	0.77560291	4.71E-10	1.21E-09
TP73	2.175228636	4.596946581	9.90E-16	3.78E-15
XKR7	2.175431635	-0.784717036	4.70E-05	8.03E-05
STARD6	2.177381567	-2.826581101	7.13E-12	2.09E-11
ANXA13	2.179384395	0.684478164	0.000150252	0.000245634
HIST1H4H	2.180332204	1.663315789	2.43E-13	7.88E-13
NRIP3	2.180613387	3.23158559	3.37E-22	1.92E-21
NEB	2.18300264	3.25184582	2.73E-18	1.22E-17
KCND2	2.18349434	1.712614408	1.38E-14	4.88E-14
TRPV4	2.183954515	5.108763592	7.19E-25	4.76E-24
ANKRD30BL	2.184533555	-4.040769948	0.000253334	0.000405983
LMNB2	2.18583021	7.409815187	2.41E-50	4.76E-49
RDH8	2.188553014	-3.910903721	3.07E-05	5.32E-05
ARHGEF4	2.189194212	5.737629322	1.34E-15	5.08E-15
TMEM215	2.189464496	-1.647949862	0.000605326	0.000936959

FSTL4	2.19041923	3.810868669	2.37E-11	6.71E-11
AMER3	2.190762015	-3.65563787	0.000446667	0.000699793
MAPK8IP2	2.195527386	3.866442015	1.96E-13	6.39E-13
AC131097.2	2.195558311	-2.128829649	3.57E-09	8.61E-09
FANCE	2.195760972	4.826027211	2.35E-42	3.55E-41
NSG1	2.198030407	3.711668895	3.20E-09	7.75E-09
TRIM17	2.19825131	2.366217484	4.32E-12	1.29E-11
ATAD5	2.198315474	3.702785803	3.27E-45	5.38E-44
PPEF1	2.198404398	0.27999125	2.89E-16	1.14E-15
ALOX12	2.199165306	2.97534637	2.05E-11	5.82E-11
NRSN1	2.199201265	-1.949441841	0.002480459	0.003603745
FGF12	2.199206066	3.497735881	5.84E-11	1.61E-10
GMNN	2.199339718	4.917187963	8.99E-50	1.74E-48
UCK2	2.200022187	6.069513747	3.26E-50	6.43E-49
MBL2	2.200156965	-4.002716009	0.001477361	0.002198477
ADAMDEC1	2.200877788	3.873415553	2.96E-11	8.32E-11
TMEM270	2.202096495	-0.426571741	7.31E-10	1.86E-09
SYNDIG1	2.202397221	2.379665171	2.56E-12	7.73E-12
OSGIN1	2.205008049	5.864982071	7.71E-09	1.81E-08
CPT1B	2.205268316	1.923986626	1.00E-20	5.18E-20
TMEM196	2.205673255	-3.414344249	0.002273198	0.003313691
MAGED4B	2.207051776	-3.946619741	2.95E-09	7.16E-09
PITX3	2.210631425	-1.935617084	2.70E-10	7.07E-10
LGR4	2.211503854	5.671581857	1.90E-28	1.52E-27
MUC20	2.212011306	5.602227271	6.90E-09	1.63E-08
CRYBG2	2.213268778	4.461349273	3.22E-15	1.19E-14
ANKRD62	2.2139281	-1.599128196	1.29E-08	2.98E-08
B4GALT4	2.214064772	6.357358153	5.73E-26	4.04E-25
UGT2B17	2.215245849	0.346422743	1.71E-05	3.04E-05
SCML2	2.215637073	2.192837409	9.61E-14	3.20E-13
TBX1	2.2156927	3.972954203	4.91E-16	1.91E-15
GHSR	2.216480558	-4.118315411	6.97E-05	0.000117477
HIST1H2BD	2.216525159	4.026930416	3.33E-23	2.02E-22
BOP1	2.219679247	6.530620997	6.06E-48	1.11E-46
TMEM52	2.219914565	1.539795017	1.28E-15	4.84E-15
LENEP	2.220769131	-3.145486947	2.42E-11	6.83E-11
SORD	2.222309273	5.377754597	8.23E-34	8.60E-33
ST18	2.222614261	-0.152323306	4.73E-08	1.04E-07
AL603832.3	2.223967836	-2.954284548	1.99E-12	6.07E-12
MYOG	2.225978742	-3.968438812	0.002445122	0.003554384
ADCY2	2.227900659	2.660097275	1.44E-06	2.80E-06
HTR6	2.228861782	-2.313293177	6.74E-08	1.46E-07
H2AFB1	2.228954979	-4.020916586	0.002361008	0.00343621

FKBP4	2.229183325	7.942991007	1.86E-50	3.69E-49
ZFHX4	2.229478453	2.78404978	2.87E-09	6.97E-09
TM4SF19	2.230169988	2.059236441	3.88E-10	1.00E-09
MCM8	2.230261896	5.042749189	1.94E-56	4.58E-55
NPPB	2.23213524	-3.688516633	0.000298672	0.000475844
PAR6G	2.232962672	4.936144071	1.07E-34	1.17E-33
CA7	2.235280328	-2.764449227	1.65E-06	3.20E-06
THEGL	2.23703324	-2.897015985	1.00E-08	2.33E-08
SNAP91	2.238106727	0.35117401	2.00E-06	3.84E-06
CLEC18B	2.238960063	-1.258621243	7.81E-13	2.45E-12
ASIC1	2.239041568	3.228228776	4.20E-24	2.68E-23
SCUBE3	2.240008011	4.077124911	5.34E-10	1.37E-09
FAM72A	2.240056047	1.0115207	3.85E-40	5.36E-39
GLRA4	2.241555775	-2.897828543	0.000250107	0.000401023
PPAT	2.242205016	4.818660669	4.97E-49	9.40E-48
P3H4	2.244773956	5.611594723	1.95E-38	2.53E-37
ALDH1L1	2.245680451	3.416509283	4.53E-08	9.97E-08
LIPM	2.248295678	0.07709708	3.23E-19	1.53E-18
STEAP1	2.252920736	4.832727814	1.91E-22	1.11E-21
FRMD6	2.253710704	6.737015555	1.70E-29	1.44E-28
GBX1	2.253992896	-3.032870504	0.000413033	0.000648991
FHOD3	2.25423722	4.21544981	5.84E-13	1.84E-12
FAM19A4	2.258175103	-1.912260313	1.39E-06	2.71E-06
PRSS38	2.258774529	-3.888942179	0.000858119	0.001307644
GPR156	2.259364313	1.702088553	1.14E-11	3.29E-11
JUP	2.263167467	10.03805624	9.42E-39	1.24E-37
MEI4	2.263230047	-1.372276801	0.000109215	0.000180598
MINDY4B	2.264491395	-3.064157542	8.53E-10	2.15E-09
NDRG1	2.26454066	10.78589574	2.36E-19	1.13E-18
C4orf51	2.2663087	-2.348341346	1.43E-06	2.79E-06
ATAD2	2.267109261	6.129776019	8.05E-69	2.67E-67
SIX1	2.267235289	4.364276634	1.69E-22	9.79E-22
NCAPG2	2.26805434	5.463598636	9.97E-61	2.64E-59
KCNH8	2.270194226	1.367434009	3.55E-09	8.57E-09
CEACAM5	2.270447605	7.193839823	7.51E-06	1.38E-05
CHAF1A	2.270828999	5.34256196	1.26E-48	2.36E-47
FOLH1	2.271470243	3.239307234	1.12E-12	3.46E-12
C10orf55	2.272667201	1.11460666	1.80E-17	7.64E-17
TMEM200C	2.272830848	1.765559629	5.24E-11	1.45E-10
CYB5R2	2.275666921	5.271969828	4.51E-21	2.38E-20
CCNE2	2.276188018	2.893387782	2.45E-35	2.77E-34
ELOVL2	2.280287122	2.4853595	2.79E-10	7.30E-10
C9	2.281110384	-1.656105363	2.60E-08	5.85E-08

C9orf84	2.28149113	1.115914929	2.93E-21	1.57E-20
CENPN	2.285049339	4.484000254	7.34E-51	1.47E-49
FBXO45	2.285351263	6.034112956	5.85E-50	1.14E-48
ANKRD13B	2.287594978	4.157070461	4.71E-23	2.83E-22
C1orf112	2.289838044	3.878070008	7.31E-64	2.13E-62
TXNDC8	2.291262139	-3.87525925	1.99E-05	3.52E-05
DDIAS	2.293049179	4.206478511	6.22E-39	8.25E-38
L1CAM	2.293351762	3.284418518	5.39E-08	1.18E-07
C19orf48	2.293824087	6.360512962	2.51E-61	6.75E-60
PAK6	2.294245377	0.401554118	4.45E-30	3.91E-29
MIF	2.295003188	6.29744805	3.40E-37	4.17E-36
OXGR1	2.295270544	1.081356158	3.22E-10	8.39E-10
MANSC4	2.297137606	-0.782607375	5.98E-06	1.11E-05
MYF6	2.297713511	-3.455841058	7.28E-06	1.34E-05
FABP9	2.299069436	-3.625375661	1.86E-07	3.89E-07
COLCA2	2.300397393	3.606938408	4.78E-12	1.42E-11
JAG1	2.301398672	8.46118687	4.00E-25	2.69E-24
ANKRD20A8P	2.301690963	-2.879685558	0.000129787	0.000213285
RHBDL2	2.303400228	3.18935802	2.17E-19	1.04E-18
GSTA1	2.303492681	6.441302398	1.04E-05	1.88E-05
WNT5A	2.307850066	6.994765925	9.26E-15	3.31E-14
RBP3	2.308127487	-2.795510567	5.06E-08	1.11E-07
PAICS	2.30868167	7.543656308	5.28E-49	9.94E-48
SNORC	2.309291087	0.731742448	1.74E-21	9.44E-21
HIST1H1E	2.309797662	-0.287136467	6.05E-14	2.04E-13
SIX4	2.310463597	4.415916888	4.67E-35	5.20E-34
SBK1	2.310491731	4.541106283	5.71E-12	1.69E-11
DIRAS1	2.311135693	2.455617472	1.75E-09	4.32E-09
GSTM3	2.311646458	7.091127817	1.47E-09	3.63E-09
AGMAT	2.31215452	1.718467383	1.78E-23	1.10E-22
SLC35G1	2.315276124	4.713957818	2.82E-14	9.75E-14
AMBP	2.315601922	2.020684197	0.000618675	0.000957053
CHEK2	2.317606755	4.792623044	9.82E-60	2.52E-58
ESRRB	2.317792755	0.320853294	8.85E-06	1.61E-05
PMAIP1	2.317923364	5.117859406	4.64E-31	4.27E-30
CKM	2.318246293	-0.259413096	2.33E-07	4.83E-07
KRT86	2.319148835	2.561454108	1.16E-07	2.47E-07
LYPD6	2.319835566	2.661253831	2.17E-14	7.57E-14
PTGFRN	2.320117808	7.936080793	1.24E-38	1.63E-37
DSG2	2.321859602	8.467742666	4.77E-41	6.89E-40
SLC6A19	2.321956741	-3.667812915	0.000217737	0.000351091
POM121L2	2.322078842	-2.680116723	2.25E-06	4.31E-06
CA5A	2.32261259	-1.842066712	2.25E-05	3.96E-05

TPBG	2.324918503	6.183473696	1.58E-38	2.07E-37
ARHGEF19	2.325712461	5.765149343	2.16E-44	3.47E-43
FANCA	2.326782012	4.566258519	1.80E-53	3.90E-52
MMP27	2.327555512	-2.699536663	5.50E-05	9.35E-05
NRK	2.330229603	2.051628008	8.19E-08	1.76E-07
SLC1A4	2.331814787	6.906317039	1.13E-25	7.82E-25
ALDH8A1	2.333711962	1.494479606	9.38E-07	1.86E-06
TSKU	2.33392162	7.00172568	1.35E-37	1.69E-36
SOX3	2.334529373	-3.706318399	0.005785271	0.008084427
ALG3	2.335360028	6.999900786	1.49E-46	2.59E-45
C6orf58	2.335784761	-0.090974024	0.000141436	0.000231575
MIA-RAB4B	2.336227425	-4.143258399	0.000177703	0.00028873
KNTC1	2.336699396	5.373779766	9.24E-67	2.91E-65
PLA2G4D	2.337967866	0.771178166	6.01E-09	1.42E-08
DPYSL4	2.337985859	2.929487854	1.88E-11	5.36E-11
MTBP	2.339320426	3.378022007	3.60E-65	1.09E-63
RNASEH2A	2.343135685	5.440540985	2.99E-53	6.40E-52
TPO	2.343421378	-0.066133626	4.09E-07	8.34E-07
POTEE	2.343452264	-1.889464841	8.86E-10	2.24E-09
NME1	2.345569681	6.223622749	3.87E-53	8.22E-52
MTNR1A	2.345873538	-3.214526658	3.54E-07	7.26E-07
DGKB	2.346320573	-0.339943679	6.17E-08	1.34E-07
DRD2	2.347451198	0.377232343	7.38E-08	1.59E-07
TSPYL6	2.348383559	-2.261865294	0.001315312	0.001968391
CELSR3	2.349654474	3.388389936	7.17E-21	3.75E-20
FEN1	2.349871194	5.802800991	1.74E-70	6.11E-69
HOXA9	2.355193615	0.711085473	5.51E-11	1.52E-10
KIF18A	2.35574022	3.753526101	7.80E-53	1.65E-51
MCIDAS	2.355909446	0.336631295	1.79E-17	7.61E-17
IL23A	2.356334046	2.106169063	1.62E-17	6.91E-17
HIST1H4J	2.3563946	-2.382918298	5.36E-15	1.95E-14
LCE2D	2.359315559	-4.086031615	0.001354875	0.002024116
MTNR1B	2.360396832	-3.784114441	0.002084722	0.003052581
LPAR3	2.364385818	4.69261915	1.08E-17	4.64E-17
CCDC166	2.365381768	-4.012482197	4.04E-08	8.93E-08
TLL12	2.366424702	7.190084976	7.26E-47	1.28E-45
MTCL1	2.367115333	4.840879052	4.81E-24	3.06E-23
TMEM184A	2.367860483	4.782737119	2.36E-19	1.12E-18
GRTP1	2.370177214	4.449993971	1.63E-21	8.84E-21
ASNS	2.371771548	6.154924017	1.70E-31	1.61E-30
HS3ST3A1	2.371957514	1.998490344	4.79E-16	1.86E-15
LTB4R	2.373785266	5.34667803	4.75E-19	2.23E-18
SUGCT	2.375328451	2.628292077	1.90E-19	9.11E-19

SMPX	2.375755545	-1.513489685	3.28E-07	6.74E-07
CYP2C19	2.377065918	-3.624528372	3.92E-07	8.01E-07
KRT19	2.377306937	10.67838091	7.77E-22	4.33E-21
SLC35D3	2.377357396	-1.878415811	1.19E-07	2.52E-07
PIWIL2	2.379872422	1.110830971	1.10E-07	2.35E-07
EPHB1	2.381229288	3.200408961	1.02E-09	2.56E-09
ATP6V1C2	2.382250449	2.924656371	5.07E-19	2.37E-18
TIMELESS	2.382250969	6.280838177	1.21E-72	4.54E-71
CNTN5	2.383925626	1.962461392	2.40E-09	5.86E-09
WNT7B	2.38546101	6.609767461	8.88E-20	4.33E-19
STMN4	2.385893026	-2.650663096	3.83E-07	7.83E-07
SLC5A11	2.389622535	-0.518046664	3.90E-08	8.64E-08
FLRT1	2.392166014	-0.016301271	2.35E-14	8.17E-14
CPNE7	2.39290853	2.720530983	2.17E-14	7.55E-14
SEMA4B	2.393068123	8.526633694	2.03E-28	1.63E-27
PNMA3	2.394559221	1.428008042	2.76E-10	7.22E-10
DGKI	2.397950448	1.043408802	1.43E-12	4.40E-12
PTGES	2.398395338	5.473878167	2.86E-16	1.13E-15
LINGO1	2.398861206	2.931609024	9.95E-13	3.09E-12
KRT71	2.400490397	-2.565177787	7.13E-09	1.68E-08
FBLL1	2.401592324	-0.494876681	4.73E-08	1.04E-07
OTP	2.407082205	-3.28860516	1.36E-08	3.13E-08
RACGAP1	2.407105622	5.985637384	5.29E-82	2.48E-80
FOXO6	2.407123143	2.12300622	5.98E-16	2.31E-15
C3orf30	2.407977608	-3.159193016	1.19E-05	2.14E-05
ITGB8	2.408783338	6.573968736	2.73E-26	1.95E-25
TFAP2C	2.409992951	5.303333544	2.00E-38	2.59E-37
PSPH	2.414052666	5.264594369	1.09E-24	7.16E-24
SLC25A10	2.414874363	4.150589535	2.02E-45	3.36E-44
CCNA1	2.416395369	3.554003391	1.69E-07	3.55E-07
BPIFB2	2.417451725	2.558853138	0.005693887	0.007960987
ADAM11	2.420307146	0.956878697	2.38E-16	9.45E-16
HECW1	2.420661996	1.406522276	1.17E-16	4.73E-16
BBOX1	2.420745595	1.733836044	5.33E-12	1.58E-11
SLC16A8	2.423320072	0.798003823	1.39E-18	6.32E-18
RAB38	2.426039207	5.113491549	1.51E-20	7.72E-20
NPM3	2.426581556	5.337566554	7.93E-46	1.34E-44
KCP	2.427874894	2.762955099	1.86E-15	6.97E-15
IL11	2.428540073	1.911845728	5.15E-15	1.87E-14
ZNF280B	2.429417949	2.388549395	1.36E-13	4.49E-13
SMCO1	2.434130032	-3.14175536	8.57E-13	2.68E-12
SLC52A1	2.434555318	2.914310939	9.07E-17	3.69E-16
PAQR9	2.436163745	-1.90561446	1.59E-05	2.83E-05

ADD2	2.436216687	4.813867073	2.97E-09	7.20E-09
GCNT3	2.439414003	3.304151833	1.85E-09	4.57E-09
TRIM54	2.442781541	-0.104657975	1.45E-06	2.82E-06
BDH1	2.443570852	5.629157358	1.54E-29	1.31E-28
NBPF6	2.445367901	-3.607372838	9.90E-05	0.000164536
ENTPD2	2.445795281	2.398223094	5.61E-14	1.89E-13
ETNK2	2.446154945	4.717785443	4.21E-35	4.71E-34
GH2	2.446380632	-4.099136418	0.001941426	0.002851211
FUT2	2.447285377	3.911268492	9.72E-22	5.38E-21
PHYHIPL	2.451427081	-0.012025938	5.87E-07	1.18E-06
CA10	2.453733311	-1.216450802	0.000203195	0.000328484
HIST1H2BB	2.454119066	-3.869129728	8.92E-10	2.25E-09
PRR19	2.454870652	1.305268562	6.86E-34	7.19E-33
HES6	2.455815827	3.867013032	1.39E-13	4.57E-13
TP53TG3D	2.459304155	-1.891396664	9.20E-09	2.15E-08
CCDC197	2.460758845	-3.655820271	3.35E-06	6.33E-06
TG	2.461095942	2.035013249	4.97E-15	1.81E-14
COL20A1	2.462888457	-2.470283479	4.16E-07	8.47E-07
ACTL6A	2.463515035	7.323924453	3.61E-49	6.86E-48
RFX4	2.46560379	-0.613742564	0.000391677	0.000617079
SCG2	2.465610112	3.238179566	3.20E-08	7.14E-08
NEFH	2.466152153	2.808551438	1.77E-06	3.42E-06
CACNG5	2.470106175	-3.235626871	6.16E-05	0.00010427
PLPP2	2.474106187	6.208582674	1.48E-38	1.94E-37
FAM57B	2.475450538	-1.404820032	1.14E-12	3.54E-12
DRP2	2.476286974	-0.152721245	1.20E-20	6.19E-20
CCDC34	2.476352329	4.417022957	1.96E-52	4.07E-51
C5orf46	2.477032673	0.2952918	7.23E-14	2.43E-13
FAM71E2	2.4772135	-3.97218144	1.33E-05	2.39E-05
C15orf48	2.478204738	5.063950816	3.39E-14	1.16E-13
GALR3	2.479459668	-3.413443757	2.15E-09	5.26E-09
AXDND1	2.482278174	0.076688679	2.43E-08	5.49E-08
PAFAH1B3	2.482909353	5.307352271	3.30E-49	6.29E-48
UGT2B7	2.484991644	0.990395698	0.000190277	0.000308365
AC083902.2	2.485151222	-0.885671853	1.52E-07	3.20E-07
TRAIIP	2.485261074	3.049720457	1.10E-68	3.64E-67
PLEKHG4B	2.48605712	4.486669017	6.96E-13	2.19E-12
CHRNA9	2.486783092	-0.889166065	2.01E-06	3.87E-06
RAD54B	2.487125606	2.362708141	9.72E-64	2.82E-62
GPR158	2.487388859	1.80344773	3.21E-11	9.00E-11
XXYLT1	2.488892056	6.082455922	1.98E-47	3.54E-46
CHRNA9	2.48901185	-1.944315625	2.91E-10	7.60E-10
SLC22A11	2.489399985	-1.9203731	2.92E-09	7.09E-09

PRSS27	2.489899605	2.559098058	1.38E-14	4.87E-14
AKR7A3	2.490360076	0.73055317	7.95E-13	2.49E-12
C1orf74	2.491559128	3.88777087	1.10E-37	1.38E-36
ABCA13	2.494182286	5.9447765	3.17E-13	1.02E-12
C10orf62	2.495284779	-3.694571266	7.31E-09	1.72E-08
DEFB4B	2.49698731	-3.363913758	0.00353866	0.005050017
CHAF1B	2.497045004	4.358232366	3.09E-61	8.26E-60
PANX3	2.497987625	-3.546102208	0.000920124	0.001398398
WDHD1	2.498242158	4.71817807	5.60E-72	2.05E-70
ADGRB1	2.50039149	3.0170766	1.74E-08	3.97E-08
MMP9	2.502591366	7.039218293	3.48E-14	1.20E-13
RBP1	2.5034698	6.697848176	7.97E-15	2.86E-14
GSX2	2.503844675	-3.787949706	0.000362311	0.000572889
DNA2	2.505824312	3.638040879	2.15E-58	5.35E-57
ZNF670-ZNF692	2.506401559	-1.520814406	2.02E-21	1.09E-20
HIST1H4B	2.50645187	-3.243570776	9.47E-13	2.95E-12
POU3F4	2.508409303	-3.283199622	0.001000624	0.001515825
PTGR1	2.511054628	7.152014572	2.31E-13	7.50E-13
CLEC3A	2.511752595	-2.735552326	0.002200196	0.003212912
HSF2BP	2.512521765	0.258595568	1.09E-32	1.09E-31
OVOL3	2.512592721	-1.189625306	4.04E-17	1.68E-16
DLX3	2.512972433	2.027932259	1.69E-11	4.83E-11
ZNF729	2.516386365	-3.948849894	0.003934015	0.005591522
TYMS	2.516465506	5.352215955	2.29E-47	4.10E-46
RHBDL3	2.516998148	1.808895053	2.53E-10	6.65E-10
THOC3	2.518042455	4.468870193	4.30E-46	7.34E-45
GRIK2	2.51900908	1.089871049	9.05E-09	2.12E-08
HIST1H4D	2.520471844	-2.445081318	2.40E-16	9.52E-16
TRIM59	2.520846354	4.302664212	2.30E-46	3.97E-45
S1PR5	2.52158954	4.250187811	9.67E-21	5.01E-20
SAMD7	2.525777368	-3.529710071	0.001699137	0.002516414
NKAIN3	2.529030937	-3.230148756	5.61E-05	9.53E-05
HIST1H3I	2.530228544	-3.634937284	9.46E-08	2.03E-07
SMOC1	2.530258222	3.440170835	2.33E-07	4.84E-07
CILP2	2.533713766	3.315850316	6.92E-17	2.83E-16
ANKRD22	2.533737266	4.042447788	2.04E-28	1.63E-27
CENPK	2.535810742	3.317359986	2.47E-48	4.59E-47
PKLR	2.53716065	-2.934452176	2.18E-08	4.93E-08
MOGAT3	2.53755636	-3.702892619	0.000313466	0.000498154
TBX18	2.539301652	3.000163072	1.30E-09	3.24E-09
PKP3	2.539964229	7.097491642	1.77E-47	3.18E-46
CELF5	2.541966731	-0.742991913	7.99E-11	2.17E-10
COL19A1	2.542464736	1.083954807	6.35E-06	1.17E-05

GCLM	2.542796847	7.198653177	1.53E-16	6.14E-16
TEX35	2.544803864	-2.536657012	3.25E-08	7.26E-08
GABRE	2.544828945	6.323519594	1.68E-14	5.88E-14
PPP1R14D	2.545340934	-0.114887196	2.36E-08	5.32E-08
PRDM12	2.546082127	-2.560632293	1.38E-13	4.55E-13
CRYBB3	2.547575889	-0.203018149	3.95E-18	1.75E-17
PHGDH	2.548759275	6.773469308	3.66E-29	3.05E-28
C5orf34	2.548882824	2.5833949	2.86E-56	6.75E-55
LY6G6D	2.552241133	-3.15638306	0.000162413	0.000264805
TMEM235	2.552432642	-2.866713644	4.58E-05	7.83E-05
HPCA	2.552590641	-0.704104639	2.67E-23	1.63E-22
MTFR2	2.553253522	2.939246087	2.83E-55	6.48E-54
STYK1	2.554509995	3.390156455	1.16E-37	1.45E-36
VANGL2	2.557241687	6.537907446	1.54E-31	1.46E-30
GALR2	2.558265616	-1.023129095	1.09E-11	3.16E-11
HIST2H2BF	2.558811491	1.406244819	5.49E-17	2.27E-16
RHOXF2	2.559686933	-4.035457401	0.005354093	0.007515223
CENPH	2.561404003	4.112030845	2.95E-63	8.42E-62
CHRND	2.561505884	-3.184033333	6.18E-07	1.24E-06
GJB7	2.561792848	1.788372552	7.32E-15	2.63E-14
DISP3	2.564520951	0.261251598	8.33E-08	1.79E-07
LMX1A	2.565789564	-1.167023783	0.000229743	0.0003697
SLC7A10	2.565968969	-0.210137471	2.34E-06	4.47E-06
ARL9	2.566058444	0.537852077	1.86E-17	7.91E-17
KRTAP10-2	2.567076984	-3.857237443	6.97E-06	1.28E-05
CLCN2	2.567373619	4.34973802	2.88E-36	3.39E-35
OR8A1	2.571185293	-3.998935962	0.003448739	0.004928234
SLC38A4	2.573222008	2.173642319	2.80E-10	7.32E-10
VWDE	2.577238849	2.732382784	2.22E-12	6.75E-12
TGM7	2.577441959	-3.517777924	2.14E-05	3.77E-05
CHTF18	2.577819487	4.841846986	5.10E-45	8.35E-44
NAT16	2.578120521	-2.82459338	3.05E-07	6.27E-07
ADAM12	2.578312035	5.592542094	3.50E-21	1.86E-20
ALX4	2.579829334	0.002927852	9.79E-06	1.78E-05
NUDT10	2.582319559	1.171054321	5.47E-10	1.40E-09
SRSF12	2.582327555	1.993038227	1.08E-22	6.34E-22
SLC8A2	2.582556001	0.308533379	7.79E-10	1.98E-09
HHLA1	2.584936552	-4.086992038	2.75E-06	5.23E-06
CXCL6	2.586540862	4.650435204	9.67E-08	2.07E-07
KLK14	2.587191399	1.848734206	1.51E-07	3.19E-07
LRFN2	2.58764977	-1.82312269	2.79E-07	5.76E-07
SHCBP1	2.587705042	4.066308555	1.16E-65	3.56E-64
MRLN	2.595065739	-0.528068369	7.11E-05	0.000119672

FGFBP2	2.595112136	5.378533531	0.000102335	0.000169867
DSC2	2.595393627	7.550939357	1.23E-27	9.47E-27
CNGA2	2.595803261	-3.932461399	0.003717615	0.005295891
CDK5R1	2.596853237	3.914968758	1.24E-36	1.49E-35
PLK4	2.597036547	3.820493371	1.49E-73	5.74E-72
SLC6A17	2.59765946	0.143170729	8.08E-10	2.05E-09
LINGO2	2.59768296	-0.20418588	3.29E-08	7.34E-08
WNT10A	2.602718914	3.627884117	7.87E-11	2.14E-10
MAP6D1	2.604283837	2.983518304	7.42E-28	5.77E-27
NGFR	2.605155382	5.067633926	6.99E-11	1.91E-10
GATA4	2.606465746	1.183099679	1.73E-05	3.06E-05
TLE7	2.607887216	-4.217257715	0.003160827	0.004537032
KPNA2	2.612776785	7.536843112	7.75E-73	2.94E-71
ACTL6B	2.613003188	-2.867704336	1.47E-05	2.63E-05
SLC16A1	2.613996753	6.835172287	4.25E-34	4.50E-33
TCERG1L	2.614054682	-0.242886414	2.06E-05	3.63E-05
CKS1B	2.614403474	5.612222665	4.64E-55	1.05E-53
SLC4A3	2.614537054	3.984374798	2.67E-26	1.90E-25
SULT1E1	2.614899706	2.537164507	1.75E-06	3.38E-06
GGH	2.615563467	5.863952737	3.61E-40	5.04E-39
TTBK1	2.615904999	0.227053841	6.67E-15	2.41E-14
STAC2	2.616638647	1.801357917	3.55E-06	6.68E-06
RNF225	2.617647056	-1.274403844	2.00E-15	7.49E-15
BTBD16	2.618519456	0.480047156	3.32E-08	7.41E-08
NRXN1	2.618594764	2.142766149	3.60E-06	6.78E-06
SMO	2.61859696	5.76386656	1.86E-30	1.66E-29
FUT5	2.618630176	-3.955672525	1.54E-07	3.24E-07
TPD52L1	2.618912024	6.526138331	9.92E-29	8.07E-28
IGFL2	2.622420995	2.435554917	3.03E-10	7.91E-10
ACVR1C	2.623227022	2.803007133	9.46E-23	5.57E-22
DEFB1	2.623252987	4.012284154	8.12E-08	1.75E-07
RPL10L	2.624470459	-2.850226146	8.36E-06	1.53E-05
NEURL1	2.624484789	2.604273303	2.46E-11	6.95E-11
TGFBR3L	2.626854059	-0.69737293	8.17E-15	2.93E-14
DSCC1	2.631838928	3.764307199	8.63E-63	2.43E-61
S100P	2.634823482	5.706274986	6.79E-08	1.47E-07
EIF4E1B	2.636147018	-3.812848328	0.001914049	0.002815304
ATCAY	2.63631872	-2.167496151	1.34E-05	2.40E-05
ADGRG7	2.636476348	1.440801219	0.003387676	0.004847452
CHGA	2.636600053	1.365075366	3.44E-07	7.06E-07
PROC	2.637530028	1.006399172	2.25E-15	8.38E-15
LY6L	2.637643985	-3.801549868	0.005977751	0.00834383
DNMT3L	2.638705132	-3.773040323	0.000609158	0.00094265

HOXB7	2.638956266	3.979775883	6.41E-26	4.50E-25
MDK	2.642358954	7.805192279	2.83E-28	2.25E-27
FGF20	2.642706151	-0.921913692	0.000136245	0.000223535
PRR4	2.644992698	2.61185175	8.23E-08	1.77E-07
SPINK8	2.645111136	-3.089657652	3.80E-06	7.14E-06
LAD1	2.646365586	8.087089373	9.60E-43	1.47E-41
SPATA16	2.646891176	-4.061227041	8.69E-05	0.000145193
KRT40	2.65068003	0.799849846	3.66E-05	6.30E-05
LRRTM1	2.652338988	-0.143352036	0.000131244	0.000215601
SLC38A3	2.654481683	0.218196563	4.84E-09	1.16E-08
KRT10	2.656532691	6.466737894	1.91E-15	7.14E-15
ABCB6	2.656587238	3.940860281	2.23E-30	1.98E-29
SERPINE2	2.657053081	6.763334196	4.65E-21	2.45E-20
KLHL13	2.659731218	4.506475343	4.76E-20	2.36E-19
PRR5-ARHGAI2	2.660163148	-1.013208701	6.56E-23	3.90E-22
HRH3	2.660254798	-3.427353737	2.32E-05	4.07E-05
GAPDH	2.661884777	12.22244888	3.88E-59	9.80E-58
IL22RA2	2.662049971	0.214198632	6.97E-13	2.19E-12
IL12RB2	2.66269786	2.019167507	3.91E-16	1.53E-15
NFE4	2.663066069	0.068614291	0.000193603	0.000313533
HIST1H2AH	2.664172687	-3.064304284	1.62E-12	4.97E-12
FER1L6	2.665489843	1.41908197	3.42E-08	7.62E-08
LIN28A	2.666175834	-2.451460264	0.000165316	0.00026932
CYP27B1	2.66678295	3.282848158	2.35E-15	8.73E-15
FAM84A	2.666969744	6.52332174	4.17E-24	2.67E-23
CLDN20	2.667571386	0.444284209	7.76E-11	2.11E-10
GRXCR2	2.667940134	-4.10064239	7.74E-10	1.96E-09
SHOX	2.670040244	-2.83388523	0.000518834	0.000808146
IGF2BP2	2.671882702	6.683690252	1.66E-21	9.00E-21
ULBP2	2.671886143	3.662487603	3.37E-18	1.50E-17
PHF21B	2.672738476	-0.47354071	1.15E-08	2.66E-08
GPRIN1	2.674798703	3.663476903	2.31E-34	2.47E-33
ACRV1	2.674975049	-1.340169871	3.50E-32	3.40E-31
SPINK1	2.676736556	2.804949969	6.94E-07	1.39E-06
PRRX2	2.681858024	3.132377685	1.45E-21	7.92E-21
HIST1H2BL	2.68245281	-2.087127294	3.72E-20	1.86E-19
ALPK2	2.683999154	1.974189098	3.02E-13	9.71E-13
CCNF	2.684315874	4.882816285	2.39E-80	1.10E-78
PENK	2.684441517	4.375718838	3.42E-05	5.90E-05
KCNN1	2.684723322	0.302540326	1.57E-12	4.82E-12
VGLL2	2.687349488	-2.927269529	0.001324432	0.001981227
TTLL8	2.68841927	-3.503023198	5.50E-09	1.31E-08
GLDC	2.688561061	2.528202928	3.30E-10	8.60E-10

GAREM2	2.689160973	4.080983685	6.15E-37	7.50E-36
KCNC1	2.689434522	-1.462212671	6.89E-10	1.75E-09
ERFE	2.689966644	2.16270205	2.20E-18	9.91E-18
HMGB3	2.691616235	7.03966765	5.77E-38	7.36E-37
B3GNT4	2.696771499	1.77007806	3.12E-31	2.90E-30
TMEM145	2.697250918	0.275641341	1.92E-15	7.18E-15
LCE5A	2.698876626	-3.876010869	3.68E-07	7.52E-07
RASGEF1C	2.698918128	-1.525552454	3.19E-08	7.12E-08
LGR5	2.700099147	3.927934612	1.33E-07	2.82E-07
HIST1H2BJ	2.700726495	2.028274073	9.83E-19	4.52E-18
LGI1	2.701330702	-1.491754802	0.0026029	0.003772935
GOLGA8G	2.702115679	-3.928390869	1.97E-05	3.48E-05
FABP1	2.708215054	-1.825632491	0.006238682	0.008693433
HSD17B3	2.709021677	1.2518643	6.48E-12	1.91E-11
RAB6B	2.711139375	5.799660617	7.20E-13	2.26E-12
ENTPD8	2.711158886	0.482369855	1.83E-08	4.16E-08
PRKCG	2.711298505	-1.045479174	9.30E-09	2.17E-08
HMX3	2.711820837	-2.992505867	0.002281677	0.003325255
CALN1	2.714265021	0.704242268	3.68E-05	6.35E-05
RUNDC3A	2.715012683	1.894366879	1.05E-13	3.50E-13
DNMT3B	2.715325554	3.5202864	2.06E-28	1.65E-27
CLDN10	2.716418247	3.352838722	1.15E-10	3.08E-10
DEPDC7	2.719297639	2.204265807	1.64E-27	1.25E-26
FSCN1	2.71946417	8.780739996	1.60E-34	1.72E-33
LRRC15	2.720235289	5.050501901	1.61E-13	5.29E-13
MUC13	2.720862138	3.04688126	2.21E-05	3.89E-05
MPPED2	2.721623069	2.367970116	7.99E-12	2.34E-11
AL691442.1	2.721674322	-4.08567108	1.71E-08	3.91E-08
HASPIN	2.723188617	2.447098616	3.84E-55	8.74E-54
MUC6	2.725195795	1.795015576	1.52E-05	2.71E-05
SLC9A3R1	2.725975328	7.880381614	2.34E-33	2.40E-32
SLC29A4	2.727979231	3.987829439	1.12E-21	6.17E-21
GALP	2.72802697	-3.943700253	0.000762843	0.001167911
RDH12	2.729802008	0.785854928	1.62E-10	4.31E-10
GRIP1	2.729878312	2.963450923	1.44E-21	7.83E-21
OR1J4	2.730163878	-3.28461081	6.31E-11	1.73E-10
HIST1H2BE	2.735662574	-1.841095752	5.52E-14	1.87E-13
NKAIN4	2.735702997	-0.16233076	5.88E-10	1.50E-09
HIST1H1D	2.736631651	-1.084482644	1.81E-15	6.78E-15
FRMD1	2.736719397	-0.655594853	9.21E-05	0.000153779
MPP4	2.738372308	-0.494056499	7.20E-10	1.83E-09
POLE2	2.738854709	3.181483833	5.61E-53	1.19E-51
COL26A1	2.742958955	2.660152606	1.41E-07	2.99E-07

PROKR2	2.746579279	-2.946565141	0.002860928	0.004128285
MLLT11	2.750074862	5.168946356	3.27E-25	2.21E-24
CDX1	2.750733824	0.203123371	2.74E-14	9.47E-14
TONSL	2.751347109	5.130965558	3.06E-55	7.00E-54
LRIT2	2.753878875	-3.171661239	5.00E-08	1.10E-07
PLAU	2.755647362	7.970530319	3.48E-23	2.10E-22
GREB1L	2.756034259	1.388575476	2.85E-12	8.58E-12
PTGES3L-AAR	2.756248161	-2.226829216	2.75E-17	1.16E-16
WASF1	2.756315141	4.977306987	1.23E-28	9.98E-28
MYCL	2.756674386	5.528023483	2.49E-16	9.86E-16
SMIM35	2.757480354	-2.873963977	6.79E-15	2.45E-14
GNG13	2.762382585	-2.11995688	6.19E-08	1.35E-07
BLM	2.764635931	4.053422257	4.94E-68	1.60E-66
FRMD7	2.767965968	-2.696633292	6.65E-07	1.33E-06
SATL1	2.768345237	-3.892114918	4.19E-07	8.54E-07
SKP2	2.769345956	5.898402457	1.12E-52	2.34E-51
TMEM117	2.775835092	4.155915909	3.31E-43	5.12E-42
HIST1H2BI	2.776883719	-3.349308389	3.86E-12	1.16E-11
ADAD2	2.776895181	0.377591646	1.33E-17	5.73E-17
FANCB	2.777267109	1.679265661	6.86E-62	1.88E-60
ART3	2.780665829	-0.16171953	1.68E-06	3.24E-06
TNNI3	2.78086107	1.306368612	1.49E-10	3.97E-10
RAB26	2.78097902	1.407230306	7.00E-23	4.15E-22
C14orf39	2.781762661	-1.226030266	1.10E-08	2.56E-08
GPRC6A	2.78201501	-3.000879951	1.34E-07	2.83E-07
CGB7	2.78425057	0.118832604	3.31E-20	1.66E-19
C3orf67	2.784549869	3.028262324	2.36E-34	2.53E-33
KCTD1	2.78458119	5.739465244	2.73E-35	3.07E-34
TRDN	2.784661565	0.724523486	2.70E-06	5.14E-06
SLC16A9	2.78634752	4.111681851	1.37E-16	5.50E-16
TSACC	2.786710696	-0.358729291	9.32E-41	1.33E-39
BHMT	2.789968302	-0.866523686	2.98E-09	7.24E-09
CA6	2.790138528	-1.815978613	1.05E-06	2.06E-06
SCN8A	2.791722984	2.514325336	1.10E-25	7.57E-25
MARK1	2.794117865	5.117203403	1.96E-43	3.07E-42
ETV3L	2.795062304	-2.727648387	1.45E-06	2.82E-06
GLYATL1	2.797814447	-1.489808364	2.36E-09	5.78E-09
CTHRC1	2.801776013	6.17853241	1.10E-30	9.93E-30
ZP3	2.803835014	3.345558908	2.06E-35	2.34E-34
FRG2C	2.803968022	-3.224250909	6.80E-06	1.25E-05
SLC30A3	2.809385004	1.459325279	9.90E-11	2.67E-10
ADM2	2.809883059	3.800472766	2.08E-29	1.76E-28
TMEM88B	2.81107032	-2.499594219	1.28E-10	3.43E-10

S100A9	2.812106014	10.29927873	8.00E-10	2.03E-09
CALHM3	2.812541515	-1.556579236	4.56E-06	8.52E-06
WISP3	2.813454848	1.011566245	3.72E-10	9.64E-10
NQO1	2.817257154	7.976236306	1.96E-14	6.85E-14
SCN5A	2.818723827	0.760311721	3.25E-13	1.05E-12
WNT10B	2.82044912	1.706555345	8.54E-14	2.85E-13
KLK2	2.820784136	-0.911549862	9.43E-07	1.87E-06
CES5A	2.821935183	-2.729984632	3.41E-06	6.43E-06
ZBTB8B	2.822025714	-0.69738226	7.47E-09	1.76E-08
MESP2	2.824016012	0.088056293	6.16E-14	2.08E-13
HOXD4	2.824282841	-0.671975767	3.39E-09	8.19E-09
ANGPTL3	2.826858566	-1.901521395	5.08E-09	1.21E-08
PERM1	2.827223529	1.553791062	4.36E-27	3.26E-26
TRIM9	2.827471208	2.146514412	2.14E-15	7.98E-15
FZD9	2.828892667	0.85331527	3.31E-17	1.39E-16
NPHS2	2.829162808	-3.681872002	0.000108787	0.000179908
C6orf141	2.830169773	3.149951464	2.70E-13	8.72E-13
DTL	2.837140209	5.026884567	1.38E-64	4.15E-63
RHBDL1	2.83727046	1.918684985	1.26E-26	9.16E-26
ACOT12	2.838007763	-3.265777067	2.28E-06	4.37E-06
CLSPN	2.839566368	3.517703574	7.81E-52	1.60E-50
HIST1H3H	2.839670234	2.328567203	1.35E-20	6.95E-20
CXCL13	2.840684947	6.401227743	1.12E-08	2.60E-08
PHF24	2.841841376	2.755016127	2.02E-10	5.35E-10
INHBE	2.84328179	0.701870949	1.22E-16	4.93E-16
IGFBP3	2.843479567	9.314410569	8.81E-19	4.06E-18
CDCA4	2.845448484	5.624025742	1.33E-69	4.53E-68
PABPC1L2B	2.848676633	-3.814435559	0.000211775	0.00034172
AL121758.1	2.854485095	-1.984912054	2.64E-13	8.53E-13
OR51B5	2.854533591	-1.370799006	9.32E-06	1.69E-05
SLC35G3	2.855566699	-2.793067078	2.88E-06	5.46E-06
OR52L1	2.856072196	-4.041644607	6.35E-08	1.38E-07
MOGAT2	2.856097485	-0.944158298	9.64E-07	1.90E-06
PSG7	2.856537916	-4.114533454	0.000197141	0.000318979
ZDHHC22	2.858880426	-1.389821064	1.78E-05	3.15E-05
UGT8	2.859678729	4.343251087	1.44E-17	6.15E-17
ADRA2B	2.864718027	2.443571905	2.56E-12	7.74E-12
AMH	2.865657145	1.173573713	6.39E-11	1.75E-10
IL31	2.86620741	-3.942111807	0.000159133	0.000259689
CELSR2	2.86701868	6.777025231	1.77E-37	2.19E-36
AL355102.2	2.870457538	-2.997239429	2.65E-11	7.47E-11
KIF5A	2.870699543	1.112259459	2.05E-15	7.66E-15
STRC	2.874783291	-1.295243648	8.76E-15	3.14E-14

ALOX12B	2.875637606	1.568776541	7.67E-11	2.09E-10
GRHL1	2.87604958	5.63770008	3.64E-37	4.48E-36
IRF6	2.876080434	8.321417996	5.13E-49	9.67E-48
CYP2S1	2.877552614	7.16461918	1.13E-20	5.85E-20
SHISAL2B	2.878760673	-2.422501187	5.13E-10	1.32E-09
FGF8	2.880333345	-1.391507766	2.10E-08	4.77E-08
SFN	2.880897535	9.721773806	1.44E-27	1.11E-26
AGMO	2.881172271	0.888702942	1.69E-10	4.50E-10
CBR3	2.88220474	4.560754375	4.82E-18	2.13E-17
CLLU1OS	2.891080835	-1.285845565	9.00E-09	2.11E-08
TENM4	2.892265132	5.354381784	3.67E-30	3.24E-29
MDGA2	2.893598319	-1.752874631	9.42E-05	0.000156964
GPT2	2.89474505	5.557890242	3.35E-46	5.73E-45
ELOA2	2.896023631	-3.372016114	4.19E-12	1.25E-11
MYO3A	2.900659845	1.527602039	4.18E-08	9.22E-08
FGL1	2.902384353	1.225963227	4.91E-05	8.38E-05
C12orf40	2.905493094	-2.785275744	0.00077912	0.001191435
SIX6	2.906149051	-3.778210993	6.48E-06	1.19E-05
NDUFA4L2	2.906656261	7.875973688	9.53E-18	4.12E-17
CACNA1E	2.906900391	0.581344825	3.73E-11	1.04E-10
KCNB2	2.911797913	0.212738274	3.32E-07	6.83E-07
E2F2	2.914324997	3.71193097	4.37E-61	1.16E-59
RBBP8NL	2.917000676	2.747344716	9.48E-28	7.35E-27
EPO	2.91706195	-1.992899421	3.17E-12	9.54E-12
CCDC169	2.919905742	0.538965411	1.58E-19	7.61E-19
CALML6	2.925027139	-0.515853637	1.81E-15	6.78E-15
CHEK1	2.925470712	4.763282327	1.17E-94	7.65E-93
AHNAK2	2.926595707	7.737807176	1.63E-18	7.41E-18
PLEKHN1	2.92879967	2.904706828	8.68E-29	7.08E-28
RAC3	2.929905815	4.233786481	1.79E-34	1.93E-33
DYNC1I1	2.930235493	3.655964049	3.84E-22	2.18E-21
CDSN	2.93095342	-1.474950045	7.00E-07	1.40E-06
KLRF2	2.932509835	-2.782968297	1.17E-06	2.30E-06
SYT6	2.932753204	-1.115607052	1.11E-08	2.57E-08
B3GALT5	2.9333716	2.537094358	3.25E-09	7.87E-09
POF1B	2.935131578	4.972759278	6.09E-17	2.51E-16
PRR11	2.935494972	4.916640642	3.97E-78	1.72E-76
GRM1	2.937288509	0.443719371	4.24E-08	9.36E-08
SUSD4	2.938484794	5.429399963	6.51E-23	3.88E-22
LYZL2	2.939483899	-3.994226621	0.003296562	0.004722961
ARHGEF39	2.93952186	3.466707179	2.05E-45	3.39E-44
C6orf222	2.940041274	-0.829360821	5.26E-11	1.45E-10
SPTBN2	2.946041445	6.122400253	5.75E-51	1.15E-49

HMGA1	2.947126938	8.728007477	2.48E-80	1.14E-78
HOXC6	2.948107235	2.46149259	1.51E-21	8.21E-21
EPHB3	2.949516898	6.590234536	1.06E-31	1.01E-30
S100A8	2.954881041	9.111005118	5.73E-09	1.36E-08
KCNQ5	2.955178366	2.816268654	2.56E-20	1.29E-19
BTBD17	2.957776446	-2.923033293	2.10E-05	3.70E-05
NEUROD1	2.957992185	-2.701152364	0.003981419	0.00565494
MIA	2.958125217	-0.006936319	7.08E-07	1.41E-06
HIST1H4E	2.958630181	-0.887223536	2.71E-21	1.45E-20
PYCR1	2.96182747	6.372386961	8.18E-45	1.33E-43
MNX1	2.962704852	-0.246258955	3.70E-12	1.11E-11
TRPV3	2.963732334	2.46116682	5.30E-19	2.48E-18
EDDM13	2.965339764	2.048521295	8.76E-17	3.56E-16
FUT6	2.966217763	1.88364043	1.44E-09	3.58E-09
TRPC7	2.966461691	-3.983531726	2.41E-07	5.00E-07
SLC17A6	2.967102923	-4.126533986	0.001266425	0.001899118
AC107871.1	2.968507309	-3.453761317	4.52E-16	1.76E-15
POMC	2.969694405	2.878088574	3.72E-12	1.11E-11
ZNF750	2.969823978	5.481504349	1.36E-23	8.43E-23
ITGB4	2.972113496	9.18544498	2.37E-38	3.07E-37
OR51E1	2.974821566	-0.754651298	2.57E-23	1.57E-22
OR10H1	2.975400149	-3.848669459	4.33E-08	9.56E-08
KRT28	2.975856839	-3.622589781	0.003764491	0.005358908
AGXT	2.977973039	-1.664366694	5.82E-05	9.87E-05
UBE2QL1	2.978919702	1.953184083	4.35E-13	1.39E-12
SRXN1	2.980254396	3.60705057	1.93E-16	7.71E-16
PLEKHG6	2.980283133	4.853586937	1.23E-39	1.68E-38
CCL25	2.984988353	-1.562100355	2.07E-10	5.48E-10
RDH16	2.985728222	1.67122462	5.29E-20	2.62E-19
NGEF	2.988209392	3.261128432	5.67E-24	3.60E-23
HOXB1	2.992971358	-2.421733446	1.78E-09	4.40E-09
TMEM79	2.994680389	5.047688279	1.11E-39	1.53E-38
KRT85	2.995855258	-0.794440318	1.93E-06	3.71E-06
CAMKV	2.998198302	-1.817791994	7.14E-10	1.82E-09
IQCJ	2.999796644	-3.948486001	1.82E-06	3.52E-06
KRTAP7-1	3.000046674	-3.883209381	0.000263689	0.000421875
HS6ST2	3.00016693	4.7519584	5.92E-22	3.32E-21
MYL7	3.001700148	-2.677454262	2.21E-07	4.60E-07
MC4R	3.007255067	-1.807210376	2.31E-10	6.08E-10
BIK	3.008522523	3.654639128	4.98E-34	5.26E-33
FAM111B	3.011876638	4.158763404	2.21E-41	3.24E-40
CIP2A	3.012452097	4.490866613	1.72E-78	7.51E-77
EIF4EBP1	3.013371657	6.827156423	6.92E-34	7.24E-33

BOLL	3.014006561	-2.561819144	1.12E-12	3.47E-12
C20orf141	3.015057415	-3.234853492	1.88E-05	3.33E-05
PIRT	3.016317931	-2.082888453	0.000533733	0.000830433
C10orf82	3.016626027	-0.401981434	2.12E-07	4.41E-07
PARPBP	3.017174036	3.823151871	4.78E-63	1.35E-61
GOLGA6L22	3.017228024	-3.879123891	4.04E-06	7.59E-06
ADIPOQ	3.017569786	-2.243532609	0.002216944	0.003236594
CENPM	3.018149274	4.27095904	1.27E-67	4.08E-66
NRCAM	3.018311851	5.817861316	4.63E-16	1.80E-15
ARHGAP11A	3.018357434	5.105645705	3.18E-85	1.62E-83
C2CD4A	3.022541973	3.473350412	3.76E-16	1.47E-15
HIST1H2AG	3.022891618	1.50900454	1.13E-25	7.80E-25
ATRNL1	3.02360475	2.116214433	4.40E-11	1.22E-10
SLC22A2	3.02384734	-2.48764835	4.81E-06	8.97E-06
MYADML2	3.023944635	-2.443329552	1.32E-17	5.66E-17
MAFA	3.024323201	0.132332458	1.52E-10	4.06E-10
SIX3	3.024689582	0.965219446	4.49E-07	9.13E-07
FANCI	3.030047145	6.169357172	1.95E-84	9.67E-83
NBPF4	3.030489561	-3.369038017	1.80E-06	3.48E-06
HIST1H2BA	3.031144448	-4.155954897	0.003403227	0.004867384
PRLHR	3.032830408	-3.40649858	0.000874761	0.001332115
XG	3.033391449	2.983491045	3.47E-16	1.36E-15
MAB21L3	3.038412609	1.026630549	2.82E-14	9.75E-14
ZNF648	3.039787817	-2.302654006	3.96E-09	9.52E-09
STIL	3.041446563	4.302460235	9.99E-95	6.54E-93
NLRP13	3.04240572	-3.924466807	0.000631051	0.000975537
SHISA7	3.042686098	-1.844471393	9.35E-13	2.91E-12
CENPU	3.044738841	4.775851869	1.32E-62	3.70E-61
BPIFB6	3.048202898	-4.073864305	0.001700886	0.0025188
MCM4	3.051185243	7.395234019	2.78E-98	2.07E-96
PCP4	3.051846273	1.369030008	4.43E-07	8.99E-07
HBE1	3.053843349	-0.511733477	6.86E-06	1.26E-05
LYPD1	3.054390646	2.080650184	6.11E-16	2.36E-15
NAT8L	3.055762498	1.63172298	1.76E-14	6.15E-14
GJD2	3.056455164	-4.119379439	0.00064258	0.00099252
C6orf10	3.05658834	-0.666916655	1.96E-08	4.46E-08
CENPW	3.057817191	4.55081496	3.42E-52	7.07E-51
CCDC150	3.058428408	1.932601975	3.93E-39	5.27E-38
TRIM7	3.061030133	3.826404783	6.56E-20	3.23E-19
SPP2	3.061130549	-3.791729636	5.10E-08	1.12E-07
ISL2	3.062570123	0.274080104	1.07E-24	7.06E-24
GAP43	3.063008153	1.616327236	4.13E-14	1.41E-13
FOXB1	3.064064747	-1.304459245	5.22E-08	1.14E-07

SLC7A3	3.065599509	-1.037300903	2.58E-07	5.35E-07
FAM72B	3.065622173	1.066252685	2.03E-54	4.49E-53
LCE2C	3.066669543	-3.70759676	8.78E-05	0.000146687
ADAMTS18	3.067373984	1.636854965	1.31E-08	3.03E-08
DPF1	3.067510666	1.474703591	1.04E-23	6.46E-23
GRIN2D	3.070672961	3.437799943	1.57E-18	7.12E-18
SPIC	3.071955286	-0.681776923	0.000186656	0.000302819
IL17REL	3.072063	1.329791381	2.67E-07	5.52E-07
UBE2S	3.072773732	5.615126802	2.01E-67	6.43E-66
SMCO2	3.073449058	-0.202293451	3.07E-28	2.43E-27
AK4	3.078973239	5.631590318	7.98E-46	1.35E-44
ERVMER34-1	3.080081518	3.809134219	1.66E-24	1.08E-23
SMYD1	3.082707808	-3.771818517	0.000225115	0.000362477
B3GNT3	3.082946966	4.195982286	1.07E-17	4.63E-17
HOXA1	3.083350878	2.381535753	4.04E-42	6.07E-41
IL1F10	3.083587674	-2.236519722	3.41E-08	7.59E-08
GLRA3	3.083937691	-0.352649169	1.11E-12	3.44E-12
ATP10B	3.086472309	3.094522055	4.23E-16	1.65E-15
NUTM1	3.086635872	-1.491628641	5.16E-08	1.13E-07
SEZ6L	3.087330677	1.773507057	1.72E-05	3.05E-05
SMIM24	3.090247227	-0.199318436	2.41E-14	8.37E-14
TKTL1	3.090439823	2.859435156	0.000126175	0.000207573
HELLS	3.090460536	4.866377989	6.08E-80	2.74E-78
PIF1	3.092457626	3.200986172	2.39E-50	4.72E-49
SPATA21	3.094031977	-1.448855201	2.04E-06	3.92E-06
PLK5	3.095635463	-2.600016341	7.04E-12	2.07E-11
GABRA1	3.0956528	-2.151613309	0.000409479	0.000643628
PPFIA4	3.097435435	3.336684847	7.38E-28	5.75E-27
CENPE	3.098226547	4.402317232	7.42E-74	2.89E-72
TAAR1	3.098250819	-3.653554263	0.000313096	0.00049761
KIF15	3.099089577	3.796537918	3.99E-78	1.73E-76
LRTM1	3.102364203	-3.425979277	5.48E-07	1.10E-06
FAM72D	3.104064228	0.128805907	1.87E-45	3.11E-44
PODXL2	3.107238383	5.374397161	2.92E-28	2.32E-27
SIM2	3.109375838	3.080740076	1.96E-26	1.41E-25
KRTAP5-6	3.109872287	-3.8131017	1.00E-09	2.52E-09
AC091980.2	3.110513781	-3.655878605	4.62E-07	9.37E-07
TMEM249	3.111266119	-1.850055107	9.14E-21	4.75E-20
LPO	3.111365804	-0.239975095	3.61E-13	1.16E-12
SPEM1	3.115831565	-4.0635854	9.23E-09	2.16E-08
ATOH1	3.116115414	-3.972639653	2.69E-05	4.69E-05
ITIH6	3.116379092	-0.896608985	3.59E-19	1.69E-18
SPOCK3	3.116675986	2.881279126	3.47E-09	8.38E-09

TMEM114	3.118186037	-2.083863024	4.85E-07	9.82E-07
SLC39A5	3.118732682	-0.176157651	1.02E-08	2.37E-08
FAM46D	3.120524404	-3.382616804	5.30E-08	1.16E-07
HMMR	3.122076865	4.332313715	1.08E-58	2.69E-57
NSG2	3.123910072	-0.55959251	9.90E-06	1.80E-05
FBXO43	3.124260344	0.779348064	2.00E-36	2.38E-35
KRTAP29-1	3.124437319	-3.047869069	6.25E-08	1.36E-07
SMIM32	3.125065211	-2.745936109	3.97E-09	9.55E-09
AP3B2	3.125891126	3.221386017	7.36E-21	3.85E-20
ELAVL2	3.125966479	-0.236963795	6.36E-08	1.38E-07
CABS1	3.127603355	-4.158590734	0.000262162	0.000419468
ZNF723	3.128128596	-3.939995846	0.0002007	0.000324565
CLDN1	3.128458543	9.382525916	2.87E-19	1.36E-18
SLC35F3	3.130400304	2.388931459	2.28E-15	8.48E-15
CDH8	3.130914035	2.034377395	1.88E-18	8.52E-18
PLCZ1	3.134880819	-2.684821418	3.72E-07	7.61E-07
SUN3	3.135953324	-0.872459887	4.87E-09	1.16E-08
HIST1H2AB	3.136810091	-3.274079405	1.01E-14	3.58E-14
CA12	3.138579701	7.395327217	1.92E-18	8.67E-18
TRPM5	3.140324888	0.004990412	1.33E-07	2.81E-07
GSC	3.141670993	-0.612971536	8.92E-12	2.61E-11
CAMK2B	3.14210486	1.150618218	4.45E-13	1.41E-12
SLC6A5	3.142312922	-3.444408466	9.15E-09	2.14E-08
APELA	3.14483446	0.463627982	4.15E-11	1.15E-10
TRIM43B	3.145299411	-4.148788949	0.000145004	0.000237225
SCGB1D2	3.145552568	-2.879484546	9.89E-05	0.000164408
TF	3.146120968	4.072526047	7.37E-09	1.74E-08
OR9A4	3.151838574	-2.973585706	5.21E-08	1.14E-07
PTTG1	3.151978822	5.440017773	3.98E-85	2.01E-83
AADAACL2	3.153672404	0.720490128	6.44E-08	1.40E-07
EZH2	3.155500593	5.211634854	9.45E-70	3.26E-68
BCL11A	3.155536694	5.354691272	5.57E-31	5.11E-30
CPS1	3.156776132	4.517896092	6.08E-08	1.32E-07
EYA2	3.159662402	5.59371277	4.66E-22	2.62E-21
WDR62	3.161526231	4.587802371	2.64E-55	6.07E-54
TEX11	3.161532922	-0.923754152	2.98E-16	1.17E-15
IQANK1	3.165603639	6.060243041	3.57E-61	9.54E-60
E2F8	3.170315212	3.083712283	5.74E-64	1.68E-62
LEMD1	3.171076074	2.097814792	5.69E-16	2.20E-15
GFAP	3.171659599	-0.189898409	3.06E-09	7.41E-09
TCHH	3.174567716	3.351181563	1.54E-10	4.09E-10
GRIA2	3.176516417	-1.346280114	1.01E-08	2.34E-08
CNNM1	3.177649876	2.825635566	3.98E-18	1.76E-17

JAKMIP3	3.177688344	2.570776032	1.66E-14	5.82E-14
KNL1	3.180467584	4.414073947	4.60E-90	2.64E-88
PFN2	3.183387003	8.141356413	1.02E-35	1.17E-34
CARD17	3.183572265	-0.198643368	1.09E-16	4.42E-16
GPR19	3.184953278	1.089054618	1.97E-38	2.55E-37
ESPN	3.185097322	4.432066923	2.92E-30	2.59E-29
TBX22	3.18521732	-4.072895864	0.000297188	0.000473686
DIRC3	3.185658104	1.836120716	7.74E-15	2.78E-14
FGFBP1	3.187951034	6.596548274	1.50E-15	5.66E-15
TULP1	3.194942041	-0.626281533	4.58E-24	2.92E-23
RTP1	3.196289499	-1.729109548	3.51E-07	7.20E-07
HIST1H2AL	3.197903591	-2.701853328	1.71E-15	6.42E-15
CHRNA5	3.197938159	2.066779139	2.66E-44	4.26E-43
ANKRD33	3.198761461	-1.815827589	6.26E-07	1.26E-06
PLXNB3	3.199308076	4.455115827	3.98E-38	5.08E-37
UGT2B15	3.200879643	-1.305061687	5.58E-07	1.12E-06
DMP1	3.201609119	-1.935208603	8.91E-20	4.34E-19
SLC34A1	3.202080117	-1.996996264	3.34E-18	1.49E-17
HIST1H1B	3.20213564	-1.813665462	6.78E-17	2.78E-16
KRT2	3.202210135	-0.550471131	7.33E-08	1.59E-07
NLRP11	3.202913438	-0.732337307	7.07E-08	1.53E-07
FAM72C	3.205012389	-0.377864355	3.75E-33	3.80E-32
TBR1	3.206453334	-2.514877341	8.07E-08	1.74E-07
DAZ2	3.207218409	-4.158890642	0.001297885	0.001943902
ZWINT	3.208546274	5.638817417	5.01E-91	2.98E-89
ECT2	3.214089949	6.801139721	3.32E-69	1.12E-67
SPC25	3.216224102	3.360881293	4.11E-74	1.62E-72
LIX1	3.216549193	-0.082199271	2.63E-06	5.02E-06
IL31RA	3.222185717	1.143162164	2.67E-16	1.05E-15
NECTIN4	3.225666125	6.768552492	5.34E-41	7.70E-40
NPTX2	3.227008504	4.508539774	1.49E-08	3.42E-08
SST	3.227148522	-2.039237316	0.000193086	0.000312806
NELL1	3.227974705	3.629159135	6.06E-07	1.22E-06
SLC4A11	3.229259649	5.073288669	5.99E-25	3.99E-24
DLK2	3.231675235	3.733921292	5.59E-32	5.40E-31
HTR7	3.232272267	2.41112574	8.20E-16	3.16E-15
EPHA6	3.23247923	0.369990897	3.26E-10	8.49E-10
TEX37	3.236617492	-4.108732806	1.28E-06	2.51E-06
POTEF	3.237476737	-0.854372393	5.17E-14	1.75E-13
MGAM2	3.238110274	0.19233506	7.34E-07	1.47E-06
CACNG7	3.240938936	-2.60474228	5.88E-05	9.98E-05
PRB2	3.245669485	-2.89685544	1.17E-07	2.49E-07
COL4A6	3.246870691	5.387646423	1.68E-17	7.18E-17

RAD51AP1	3.247773737	4.480695245	2.14E-72	8.01E-71
ZNF560	3.248177275	-0.908683149	1.78E-05	3.15E-05
LHFPL1	3.249405737	-0.091871458	1.73E-18	7.85E-18
NTSR1	3.251833135	0.805272741	7.04E-07	1.41E-06
CDC25A	3.25202297	3.643361915	1.15E-74	4.59E-73
TFR2	3.252928252	2.230267972	4.86E-29	4.02E-28
KLHDC7B	3.25689912	4.362115428	3.50E-13	1.12E-12
CNGB3	3.257105517	-0.147411114	5.47E-25	3.65E-24
OPRK1	3.257317504	1.431515515	9.80E-09	2.28E-08
POPDC3	3.262258289	2.51541915	2.90E-13	9.35E-13
RMI2	3.263821205	4.761996614	1.93E-58	4.80E-57
PCSK1	3.264081951	2.072594991	1.44E-14	5.09E-14
OR56A5	3.26610087	-3.464263743	1.70E-08	3.89E-08
DNTT	3.270143278	-2.70393595	9.03E-06	1.64E-05
BNC1	3.270747389	5.436863676	1.50E-16	6.01E-16
RGMA	3.271477708	5.863355157	8.14E-23	4.81E-22
FBXO27	3.271691172	5.527575147	1.32E-28	1.07E-27
HIST3H2A	3.272086506	3.792799719	1.34E-24	8.81E-24
SYNGR4	3.272251587	-1.903741821	1.70E-14	5.95E-14
PLEK2	3.273191558	4.679734292	1.40E-22	8.14E-22
B4GALNT2	3.273488852	2.46953503	5.14E-10	1.32E-09
GPC1	3.274278179	8.789817431	1.18E-37	1.48E-36
TAF7L	3.275263016	-1.064928709	2.60E-17	1.09E-16
DPPA5	3.282718816	-3.828680031	7.82E-05	0.000131158
OR8D1	3.286627682	-3.800385444	0.000376314	0.000594311
STEAP1B	3.28757457	2.359016894	1.42E-17	6.09E-17
MRAP2	3.289264764	4.073085599	6.62E-15	2.39E-14
ASF1B	3.290177274	5.224683043	1.15E-73	4.46E-72
PLCH2	3.291946937	5.21713105	4.42E-24	2.82E-23
BARHL2	3.292478788	-3.604803506	2.93E-05	5.10E-05
DPEP3	3.295315122	1.338541321	6.31E-06	1.16E-05
NPFFR2	3.296724691	-0.046992497	1.50E-05	2.67E-05
HIST1H3D	3.297102617	0.203612851	1.22E-26	8.88E-26
LARGE2	3.297973635	5.886360889	1.49E-45	2.49E-44
CRHR1	3.300428337	-1.033556034	7.25E-09	1.71E-08
HES2	3.303280901	5.026721686	2.02E-21	1.09E-20
ATOH7	3.30723657	-1.674812363	3.82E-17	1.60E-16
FMR1NB	3.308233778	-3.097609994	0.000106175	0.000175842
LYPD6B	3.310534651	4.086119886	3.30E-23	2.00E-22
TEX101	3.310615739	0.285694145	4.24E-10	1.10E-09
GPC2	3.310771738	1.75921291	6.09E-28	4.77E-27
KRT82	3.31197903	-3.189611835	3.04E-11	8.53E-11
BUB1	3.315753399	5.32035885	1.08E-99	8.44E-98

BCAN	3.315822235	1.855143388	5.76E-12	1.70E-11
ADAM7	3.316449722	-3.729865601	5.17E-08	1.13E-07
TMEM132A	3.32017135	7.071349984	1.86E-64	5.53E-63
IFNL3	3.32027383	-3.679532674	3.89E-09	9.36E-09
PRR35	3.320837385	-3.735152527	4.90E-09	1.17E-08
SPOCK1	3.320996622	4.74490753	4.40E-25	2.95E-24
CACNG2	3.32913467	-3.4874889	2.20E-06	4.21E-06
TTYH1	3.329468133	1.010287744	1.47E-15	5.56E-15
C16orf74	3.331614684	3.868256368	1.56E-34	1.69E-33
UPK2	3.332358392	1.101295282	2.06E-10	5.45E-10
GSX1	3.332721741	-3.557470047	0.002528995	0.003670759
RPE65	3.333023321	-1.704220862	8.65E-09	2.03E-08
GTSF1	3.336780614	3.03558803	5.06E-09	1.21E-08
AURKA	3.337052537	5.133210569	1.42E-98	1.08E-96
COL10A1	3.339966676	5.39597802	1.16E-21	6.37E-21
SMC1B	3.341097043	0.905615812	6.14E-16	2.37E-15
ATP13A5	3.342358967	2.940837176	3.75E-09	9.03E-09
CARD14	3.344932331	3.191572412	5.27E-43	8.11E-42
CDH22	3.346063628	1.18268616	1.52E-06	2.95E-06
PPP1R27	3.347594894	-1.828917898	1.58E-21	8.58E-21
CENPVL3	3.349045906	-4.03222574	1.75E-05	3.10E-05
PANX2	3.352359651	4.8418223	4.38E-22	2.48E-21
GREM1	3.353692055	6.105971064	1.69E-21	9.15E-21
CENPI	3.354329889	3.312694323	3.74E-88	2.08E-86
ADH1C	3.354836835	5.690515922	1.38E-06	2.69E-06
PROM2	3.355993415	7.089050386	1.93E-26	1.39E-25
GRK7	3.357522203	-0.449190993	1.06E-22	6.23E-22
CPA2	3.35849579	-0.794715191	3.94E-11	1.10E-10
NUDT11	3.361741668	3.110847882	2.71E-23	1.65E-22
NOS2	3.362473976	5.488605433	2.14E-08	4.86E-08
RFC4	3.362740659	5.876984789	1.27E-72	4.77E-71
TWIST1	3.365321811	3.199685719	6.52E-23	3.88E-22
BRIP1	3.371640796	3.863821411	4.56E-78	1.97E-76
GINS4	3.372234176	3.88899125	8.72E-53	1.84E-51
C10orf120	3.372268682	-4.152665661	9.42E-07	1.86E-06
COL9A1	3.375608349	0.045410562	2.68E-08	6.02E-08
SPINK7	3.37567679	-0.664409445	5.26E-07	1.06E-06
ADAM2	3.375705721	-2.319558634	0.000404868	0.000636819
DSPP	3.376787315	-3.475468681	2.88E-16	1.14E-15
MC3R	3.378139658	-3.48559293	2.08E-05	3.67E-05
SLAMF9	3.37965633	1.572243609	1.88E-17	8.00E-17
TUBB4A	3.381103928	2.398004104	7.76E-15	2.79E-14
NEU2	3.382086257	-4.157933589	1.29E-06	2.53E-06

TMEFF1	3.382109927	-2.248924712	1.22E-15	4.65E-15
NKX6-1	3.383225253	-0.150859629	1.71E-18	7.75E-18
CDK1	3.383564252	6.082765656	2.76E-86	1.44E-84
TBX20	3.390268345	-1.475755553	3.24E-07	6.66E-07
HTR5A	3.392660796	-3.798936748	0.001010869	0.001530077
DIO2	3.394174844	4.718460049	6.17E-23	3.68E-22
NUSAP1	3.39517143	5.946024769	4.79E-96	3.30E-94
TMEM238L	3.395590024	-0.595309583	1.17E-05	2.10E-05
EDARADD	3.395746007	3.825611598	1.09E-26	7.98E-26
CNGB1	3.396103666	1.830205714	1.05E-11	3.05E-11
TMEM202	3.404342844	-4.021699294	9.00E-05	0.000150349
ABCA4	3.405167248	4.683320491	3.53E-09	8.53E-09
PTPRN	3.405537935	1.537037989	2.73E-17	1.15E-16
SLC47A2	3.405912724	2.448940475	2.88E-14	9.95E-14
MCM2	3.407931672	7.254513308	7.09E-87	3.76E-85
CHRN2	3.40999968	0.602498702	6.14E-17	2.53E-16
TUBB3	3.410217116	2.360880084	3.06E-23	1.86E-22
KCNK2	3.410731401	1.769661096	1.27E-11	3.67E-11
UGT3A2	3.414314789	0.876689381	5.30E-09	1.26E-08
CABP2	3.414581405	-4.115356569	0.000186993	0.000303259
LVRN	3.414715305	1.516339023	3.46E-08	7.71E-08
ASIC5	3.414966289	-2.9165681	1.31E-11	3.78E-11
FZD10	3.414968787	4.464925045	1.95E-17	8.28E-17
KIF11	3.415150246	5.583492	3.28E-112	3.52E-110
CLPS	3.417865123	-3.524224831	5.63E-06	1.04E-05
SPAG5	3.422547418	5.611213993	3.14E-80	1.43E-78
CELF3	3.425047933	-0.616636887	2.94E-06	5.57E-06
SPINK6	3.429058082	-0.286610474	1.38E-06	2.70E-06
TNFRSF18	3.431522264	4.223810256	2.53E-31	2.36E-30
RAD51	3.432008399	4.075478062	5.25E-95	3.46E-93
RNF183	3.432109078	0.893961365	9.02E-13	2.82E-12
AKR1C3	3.434345439	8.536735524	2.68E-13	8.66E-13
CBX2	3.434881202	5.319857408	9.25E-35	1.01E-33
KIFC1	3.435609522	5.522608658	3.85E-99	2.94E-97
GCLC	3.438623761	8.100209875	1.53E-27	1.17E-26
MKI67	3.439901595	7.012795174	6.12E-73	2.33E-71
KRT1	3.441191782	3.964059208	4.05E-08	8.95E-08
TLL2	3.442821664	1.374500898	9.44E-21	4.90E-20
MAD2L1	3.44286466	5.293614321	2.69E-83	1.29E-81
AIRE	3.444560141	-0.182764404	3.62E-07	7.41E-07
IGLON5	3.44669659	0.645780154	1.12E-18	5.14E-18
LINC02203	3.449353192	-4.117651579	0.000236851	0.00038067
ARNTL2	3.451481689	6.53693871	7.90E-46	1.34E-44

HIST1H2AJ	3.452002893	-2.804908196	1.47E-16	5.91E-16
ESCO2	3.453051498	3.439013073	3.14E-71	1.12E-69
KCNK10	3.459672294	0.269752457	5.86E-09	1.39E-08
H3.Y	3.462770213	-3.631070689	0.000207819	0.000335603
ELOVL4	3.466504997	2.78609861	4.28E-26	3.03E-25
ETV4	3.466970396	5.320102376	4.33E-29	3.59E-28
CDCA7	3.467910583	5.13628959	2.67E-56	6.31E-55
TMEM158	3.471683672	4.266416875	1.63E-28	1.31E-27
OIP5	3.473744995	2.688416751	1.37E-79	6.09E-78
ANKRD34B	3.473898048	0.222377094	3.67E-10	9.51E-10
NTRK2	3.47611424	8.555277608	6.91E-14	2.32E-13
PHOX2A	3.478810125	-3.17107996	2.23E-06	4.28E-06
KLK13	3.480965346	3.550913261	5.84E-10	1.49E-09
KLC3	3.481231928	3.903994713	1.09E-38	1.43E-37
TNNT1	3.482313404	4.635437691	1.19E-17	5.11E-17
HEPACAM2	3.485487487	1.741546899	1.95E-06	3.76E-06
TMEM63C	3.488508369	3.075947057	1.90E-23	1.17E-22
IGFBP2	3.489634841	9.464006751	3.86E-24	2.47E-23
RPL3L	3.490980262	-0.254805503	1.99E-27	1.52E-26
HIST1H2AM	3.491951692	-1.579685292	1.16E-24	7.60E-24
DBX2	3.499878334	-2.120591649	3.41E-06	6.44E-06
PCLAF	3.499899814	4.906684562	2.10E-66	6.51E-65
KIRREL2	3.501444386	0.301933078	4.00E-12	1.20E-11
TAC1	3.504184269	1.129304079	0.000791896	0.001210465
ALB	3.504579851	1.747216487	5.22E-07	1.05E-06
EGLN3	3.507586079	6.838464539	5.53E-29	4.56E-28
APOBEC3B	3.509065716	4.515920331	2.65E-39	3.58E-38
MND1	3.509168501	2.396043858	3.37E-79	1.48E-77
KIF20A	3.511540043	5.106046062	4.72E-88	2.60E-86
VSTM2B	3.515120159	-2.915601475	0.000753979	0.001155503
MYCN	3.515832875	2.460745771	1.53E-11	4.40E-11
C17orf99	3.516954298	0.239266498	1.50E-23	9.30E-23
NKX2-6	3.519399217	-3.987727738	4.65E-05	7.95E-05
TK1	3.519757565	6.892629111	1.18E-79	5.28E-78
1-Dec	3.520116014	0.353333179	1.85E-14	6.47E-14
CYP27C1	3.521627876	2.015251133	1.14E-15	4.35E-15
BAIAP2L2	3.523673276	2.593620733	9.30E-32	8.91E-31
SLC7A5	3.527433543	8.44491654	1.50E-39	2.05E-38
CYP2B6	3.52807949	0.331790727	0.000181886	0.000295368
MS4A13	3.528124982	-4.09724422	7.37E-05	0.000123947
NEUROD2	3.532141504	-0.72624649	9.79E-12	2.85E-11
ORC1	3.533580397	3.870587122	5.11E-93	3.18E-91
LRP1B	3.534365129	1.381219321	1.63E-11	4.65E-11

LRRC14B	3.534537634	-2.437475126	1.69E-14	5.94E-14
MLIP	3.534741964	0.53118087	1.69E-17	7.21E-17
NCAPG	3.536088351	4.586680967	2.77E-100	2.23E-98
A1CF	3.538819587	-1.923210016	4.93E-07	9.96E-07
FLG2	3.540644709	-1.424972388	2.23E-09	5.46E-09
IL36B	3.545264428	-0.317523035	3.19E-08	7.12E-08
CDKN3	3.54537274	4.113094004	1.13E-65	3.47E-64
C17orf53	3.546690425	3.650346376	1.13E-83	5.45E-82
ESPL1	3.546772677	4.834125841	2.05E-89	1.17E-87
COL9A3	3.547827482	3.356983	1.83E-14	6.39E-14
RFPL4B	3.547905683	-3.311153222	0.000224663	0.000361813
OR7C1	3.550485352	-1.925143637	3.76E-13	1.20E-12
FAM155B	3.551902333	2.432307898	2.52E-21	1.36E-20
PNMA6E	3.552377354	-1.761073435	0.000226188	0.000364109
ABCC5	3.555862301	8.425671046	1.44E-33	1.49E-32
VGF	3.560186813	0.78677225	1.15E-10	3.10E-10
SPATA31A6	3.563048687	-4.059179809	2.42E-06	4.62E-06
RGSL1	3.564747096	-2.177717367	1.36E-09	3.38E-09
SSX5	3.565033058	-2.698482833	0.000732878	0.001125051
CSTA	3.565727508	7.685240554	3.00E-23	1.82E-22
GAD2	3.567872092	-3.407131808	2.70E-05	4.71E-05
CGREF1	3.568688733	3.356812648	6.20E-26	4.36E-25
EPS8L3	3.569006603	-0.894364131	1.24E-06	2.43E-06
CNTD2	3.569007566	0.69951266	8.94E-16	3.43E-15
ARGFX	3.569190074	-3.933768083	2.48E-05	4.34E-05
CT45A5	3.569617746	-3.219451145	2.80E-05	4.88E-05
SEPT12	3.570414262	-2.735113406	1.81E-13	5.91E-13
NKX2-3	3.572079481	-0.427299896	3.34E-13	1.07E-12
TESMIN	3.572091038	3.340422199	1.59E-38	2.08E-37
TRIM16L	3.574730381	5.763258978	3.20E-21	1.71E-20
MAGEB17	3.574870519	-0.650166746	1.48E-08	3.39E-08
SLC44A5	3.578200528	4.084041653	3.25E-32	3.17E-31
SPC24	3.579671777	4.028899298	2.31E-80	1.06E-78
MYO18B	3.579854742	0.509158593	1.17E-11	3.37E-11
SERPINA12	3.580436919	-2.177648767	2.80E-08	6.28E-08
PERP	3.583910756	10.46569881	1.07E-63	3.08E-62
SYCP1	3.585257609	-3.393513364	9.97E-07	1.97E-06
FTCD	3.585754544	0.345920805	3.91E-14	1.34E-13
ARL14	3.586070877	0.652567504	5.79E-11	1.59E-10
AC018554.3	3.588072136	-4.064015297	3.25E-07	6.68E-07
EPHA7	3.589072184	3.531154002	1.82E-11	5.18E-11
PRC1	3.593046692	6.318161309	1.19E-106	1.14E-104
SNCB	3.59508215	-0.590143481	3.51E-16	1.38E-15

KCNV1	3.595708575	-0.773791058	1.48E-07	3.11E-07
PLSCR5	3.598203141	-2.680607114	0.000102083	0.00016948
CCNB1	3.601907485	6.118239572	1.71E-98	1.29E-96
TUBB2B	3.603265491	3.65393346	4.88E-14	1.66E-13
F2RL2	3.605784218	3.744478394	4.91E-13	1.56E-12
EMX2	3.609604099	-0.932309994	4.54E-07	9.22E-07
JPH3	3.610991499	1.589854436	4.21E-11	1.17E-10
CAMK2N2	3.611105091	0.517774571	4.37E-25	2.93E-24
ANKS4B	3.611665477	-1.374533244	4.90E-06	9.12E-06
SLC30A10	3.612199233	-1.387934477	7.34E-12	2.16E-11
C11orf53	3.613006402	1.034891471	4.14E-08	9.15E-08
WNT6	3.61612519	0.325470306	7.37E-13	2.31E-12
TFDP3	3.616774501	-2.864977817	0.000156632	0.000255767
XDH	3.61866941	3.873496324	1.61E-25	1.11E-24
DCAF12L1	3.618896307	-1.816494075	0.000477781	0.000746428
CD177	3.619920994	4.019529435	1.09E-10	2.94E-10
KIF23	3.620484472	5.373702286	3.34E-125	5.05E-123
CLDN6	3.621348606	1.534885605	2.61E-07	5.39E-07
ITPKA	3.625266567	1.845077924	2.55E-28	2.03E-27
HIST1H2AD	3.625658026	-0.422896621	1.21E-26	8.87E-26
RFPL1	3.626677187	-3.557810582	1.33E-09	3.31E-09
TBX10	3.628427513	-2.505702105	9.49E-12	2.76E-11
VSNL1	3.630841883	5.352522171	4.71E-31	4.34E-30
TEX15	3.631574593	0.346790583	1.89E-09	4.64E-09
BARHL1	3.632031097	-2.693317946	0.000166031	0.000270414
CIDEA	3.632237443	-1.814803159	9.21E-09	2.15E-08
RNF113B	3.633047659	-2.46591323	9.59E-06	1.74E-05
NECAB2	3.63595916	1.521116307	6.64E-13	2.09E-12
GBX2	3.639570193	-0.741653737	4.33E-15	1.58E-14
HTR3B	3.642011042	-3.44154555	5.39E-08	1.18E-07
GABRP	3.646238428	4.657859205	8.12E-11	2.21E-10
EME1	3.648381863	3.13000422	3.91E-77	1.66E-75
SGO1	3.653446411	2.838933583	7.98E-94	5.04E-92
TRIP13	3.657147728	5.590031259	3.48E-80	1.58E-78
PAGE4	3.657778443	-1.239085721	0.000257842	0.000412918
RGS20	3.663273573	2.124255463	2.07E-24	1.34E-23
PAK5	3.665704271	1.960644953	5.64E-13	1.78E-12
MYO3B	3.665706826	2.036796029	9.82E-16	3.75E-15
CNBD1	3.670006076	-3.127114433	1.64E-10	4.36E-10
ZNF679	3.670143772	-3.813844508	3.99E-05	6.86E-05
CYP4F8	3.671622134	-2.367994772	3.59E-07	7.35E-07
KISS1R	3.676831797	-0.797690672	1.27E-21	6.97E-21
CALCB	3.677217193	-0.110141983	1.70E-10	4.51E-10

SRRM3	3.678957101	3.742044353	2.47E-37	3.05E-36
SLCO1B7	3.681163969	-3.903990052	2.07E-07	4.32E-07
MAP7D2	3.683995047	3.242909257	1.08E-18	4.93E-18
IBSP	3.68639506	0.163266577	1.64E-21	8.87E-21
DEFB4A	3.686694151	0.510580852	2.20E-07	4.58E-07
RPL39L	3.686699364	5.148848102	3.17E-45	5.22E-44
ECE2	3.69187898	5.301967978	1.61E-60	4.24E-59
CDT1	3.693944131	5.000792598	3.19E-92	1.93E-90
SULT2A1	3.69440394	-2.7508202	0.000119217	0.000196479
NLRP10	3.698631824	-2.506979777	1.71E-09	4.22E-09
HIST1H2AE	3.698806933	1.244864247	2.29E-27	1.74E-26
REG4	3.699889106	-1.041837093	1.41E-06	2.74E-06
SLC9A3	3.704008722	2.202248267	1.43E-17	6.13E-17
SMIM36	3.711844386	-3.896163414	2.01E-14	7.01E-14
DMRT2	3.713075567	4.023589254	1.92E-15	7.19E-15
FSD1	3.714477792	1.36250649	2.86E-22	1.63E-21
KCNA7	3.715346427	-1.492503676	3.40E-21	1.81E-20
RECQL4	3.716406107	5.367124451	2.71E-77	1.15E-75
AADACL3	3.721767189	-3.823938096	3.85E-05	6.63E-05
HYPM	3.722087618	-3.877767356	2.94E-06	5.58E-06
NDC80	3.723184508	4.48017948	7.01E-87	3.74E-85
GIN52	3.723368804	4.686566467	2.83E-71	1.01E-69
FAM83D	3.723715334	5.874598859	1.65E-62	4.58E-61
MAGEA2B	3.724451054	-4.008933753	5.34E-08	1.17E-07
LAMA1	3.724711243	5.240291895	2.68E-17	1.13E-16
AC115220.1	3.72773839	-4.000107167	7.52E-05	0.000126236
IQGAP3	3.731311023	5.343032832	7.98E-76	3.28E-74
DIRC1	3.73132204	-2.931460673	6.02E-19	2.81E-18
LCE3C	3.733794761	-4.008334676	2.20E-05	3.87E-05
UNCX	3.73475889	-3.988569442	1.18E-05	2.13E-05
FST	3.734817081	6.140527181	1.40E-23	8.66E-23
IFNE	3.736135932	-0.84530226	3.26E-11	9.11E-11
NLRP7	3.737075334	1.480694569	3.16E-11	8.84E-11
MCHR2	3.741615592	-2.838373803	7.13E-10	1.81E-09
HOXC9	3.742125579	1.420449038	2.80E-22	1.60E-21
HIST1H3C	3.742944544	-2.05880644	3.79E-17	1.58E-16
AUNIP	3.745241771	2.705285892	4.00E-93	2.49E-91
TCF24	3.746565429	-0.274530495	1.99E-21	1.08E-20
WNT16	3.754856333	1.550116814	6.06E-12	1.79E-11
UBE2T	3.75496445	4.820318035	3.21E-91	1.92E-89
PDIA2	3.757709591	1.012403056	4.76E-13	1.51E-12
CCDC144NL	3.757728436	-1.657032664	1.24E-07	2.64E-07
GNAT3	3.764930287	-3.07456176	5.44E-05	9.26E-05

AC233724.6	3.766115513	-3.993204243	2.20E-05	3.87E-05
CDCA2	3.766206032	3.615239736	1.68E-87	9.15E-86
HHIPL2	3.76682639	1.062502851	6.60E-12	1.94E-11
CREG2	3.767988149	2.244784165	1.56E-22	9.09E-22
SI	3.768462442	-3.689474039	6.94E-05	0.000117044
CNTNAP4	3.770988982	-0.929147217	5.50E-10	1.41E-09
CCNA2	3.772535542	5.382659768	3.74E-93	2.35E-91
OVOL1	3.77275757	4.037983133	2.14E-33	2.19E-32
PAX9	3.775230049	4.874138878	3.11E-25	2.11E-24
MAST1	3.777385816	1.398397754	3.56E-32	3.46E-31
GOLGA6L6	3.778496288	-3.569120037	9.03E-07	1.79E-06
TMEM171	3.784484853	1.856934393	1.02E-38	1.35E-37
RNF222	3.784571652	-1.042208707	6.39E-17	2.62E-16
CAGE1	3.78533319	-0.785132789	1.26E-28	1.02E-27
SYT13	3.790774368	2.778440035	3.73E-11	1.04E-10
F12	3.792668935	3.335239461	1.77E-46	3.06E-45
GUCA1C	3.79704772	-3.820665734	1.92E-06	3.70E-06
DDN	3.798584271	0.795237907	5.53E-28	4.33E-27
USP26	3.80263996	-3.470814839	5.03E-06	9.36E-06
RRM2	3.805770175	6.642267082	6.18E-81	2.86E-79
HIST1H2BG	3.806902706	1.457876259	7.01E-30	6.09E-29
ABCG8	3.808034447	-2.264577743	7.54E-11	2.05E-10
PSORS1C2	3.809273835	0.710933319	7.16E-11	1.95E-10
NETO1	3.809673664	0.723681819	4.19E-19	1.97E-18
MEIOB	3.811596252	-2.636004445	1.26E-08	2.91E-08
PAX4	3.813978692	-3.703032079	0.000252601	0.000404879
CCER1	3.815509066	-3.850174762	1.61E-07	3.39E-07
UGT2A2	3.816232094	-3.489954684	9.58E-06	1.74E-05
AKR1C4	3.818650343	0.105918823	2.38E-10	6.26E-10
ZNF488	3.818824823	2.401044445	1.31E-34	1.42E-33
IFNL2	3.819092996	-3.605915919	4.21E-09	1.01E-08
KRTAP1-1	3.821949881	-3.708089847	2.03E-05	3.58E-05
XRCC2	3.827277827	3.666335221	1.45E-84	7.21E-83
PSG8	3.828946556	-3.604436604	3.08E-06	5.83E-06
UHRF1	3.830113241	4.792257114	2.58E-90	1.48E-88
SYT5	3.830492164	1.045181614	5.86E-13	1.85E-12
CDCA8	3.832172874	5.191348638	3.83E-95	2.55E-93
OR1F1	3.832288226	-3.169061639	2.87E-10	7.51E-10
GUCA1A	3.833544594	0.503082022	9.01E-13	2.81E-12
GTSE1	3.834202332	4.504554561	2.67E-102	2.29E-100
TRIM49C	3.838312308	-3.821206695	1.22E-05	2.19E-05
PTPRH	3.840016028	3.095513641	8.77E-25	5.79E-24
RAPGEFL1	3.841253963	6.543394324	2.55E-35	2.88E-34

CDH3	3.841966507	8.168288257	1.31E-37	1.63E-36
CCNE1	3.845404413	3.995241567	1.50E-58	3.73E-57
HOXB8	3.848567387	1.649514024	3.15E-12	9.46E-12
TDRD15	3.848709658	-1.66710899	0.00011443	0.00018883
EPN3	3.849530706	4.857641317	1.29E-59	3.31E-58
ARHGAP36	3.858364924	-2.536984517	2.80E-09	6.80E-09
SKA3	3.860170493	3.650137431	4.43E-100	3.54E-98
TGM3	3.862469908	4.100589809	1.54E-09	3.81E-09
THEG	3.863294053	-0.755603343	1.00E-12	3.11E-12
MIOX	3.868705442	-0.910570862	1.34E-17	5.74E-17
RDM1	3.871005905	0.146871071	1.18E-45	1.98E-44
TRIML2	3.871959286	-1.266430792	1.26E-07	2.68E-07
ISL1	3.876794055	-0.183195017	5.65E-10	1.45E-09
PAEP	3.888527442	1.397411576	1.32E-09	3.28E-09
UGT1A5	3.888691953	-3.796415824	8.61E-13	2.69E-12
C11orf87	3.889327647	0.776894544	9.46E-10	2.38E-09
IGSF1	3.893005341	1.965325746	6.41E-27	4.75E-26
AC011604.2	3.895138125	-3.527214612	6.70E-08	1.45E-07
HIST1H2BF	3.895488652	-1.184077176	9.33E-24	5.85E-23
STRA6	3.903034806	4.36017214	2.04E-23	1.26E-22
HIST1H2BO	3.903194215	-1.371850236	2.65E-24	1.71E-23
CST9	3.912186187	-3.650663374	1.62E-08	3.70E-08
CXCL14	3.912331206	7.479076755	5.29E-18	2.32E-17
BPIFB4	3.918981819	-1.418989036	1.14E-08	2.65E-08
LMX1B	3.919384509	1.449986691	7.94E-14	2.66E-13
OGDHL	3.925714503	2.751286942	1.37E-21	7.50E-21
GSTM1	3.928973293	5.720012023	1.49E-07	3.15E-07
ANKRD63	3.929057374	-3.127796089	6.31E-10	1.61E-09
HIST1H2BM	3.93255461	-3.007228121	1.49E-16	5.97E-16
PAGE5	3.934582033	-0.950776504	3.96E-06	7.44E-06
CKAP2L	3.934749703	4.417968344	9.06E-109	9.05E-107
CDCA5	3.94058366	5.619457707	2.45E-127	3.86E-125
FRRS1L	3.942287276	1.815455031	6.74E-12	1.98E-11
ORC6	3.944493488	4.128328392	3.93E-102	3.34E-100
CCL26	3.944518872	1.425997787	2.67E-23	1.63E-22
SALL4	3.945077133	1.943522138	3.35E-31	3.10E-30
FAM25C	3.946435628	-3.90196511	4.51E-08	9.94E-08
HTR3A	3.947029203	1.36410199	1.66E-11	4.74E-11
CLVS2	3.947078867	-1.862543963	4.84E-06	9.03E-06
PAX1	3.949529897	0.437454151	3.03E-08	6.78E-08
KCNJ4	3.951914068	-1.769297872	1.51E-10	4.02E-10
EMILIN3	3.952756293	2.8397934	1.90E-15	7.12E-15
HTN3	3.955122499	-3.903298954	4.82E-07	9.76E-07

DSP	3.957844718	10.16438199	1.86E-64	5.54E-63
KRT23	3.958262955	4.847922337	6.15E-13	1.94E-12
PLK1	3.959712818	5.669171434	1.31E-120	1.77E-118
CDC25C	3.960327375	2.659454581	5.88E-87	3.15E-85
FOXD1	3.963403668	2.573551633	3.88E-32	3.77E-31
SLC7A14	3.963637537	-0.193496526	2.87E-06	5.44E-06
GIN51	3.96422274	4.965821706	7.28E-103	6.40E-101
POTEH	3.966778369	-3.897818936	2.45E-06	4.68E-06
AFP	3.978538891	-0.674459079	3.78E-10	9.81E-10
CHP2	3.980407589	2.761429362	2.80E-12	8.46E-12
CEP55	3.980658511	5.497643417	1.91E-99	1.48E-97
ERCC6L	3.982248991	3.17113999	4.97E-81	2.30E-79
MEX3A	3.986727962	4.716953144	6.81E-39	9.02E-38
LCE1E	3.986782608	-3.489639119	2.47E-11	6.96E-11
OR11H4	3.986950339	-2.961672363	2.60E-08	5.85E-08
TEDC2	3.987171606	3.256705257	4.61E-87	2.48E-85
C7orf33	3.988020454	-3.630894016	1.35E-07	2.86E-07
PIMREG	3.98892855	3.749890792	7.92E-76	3.27E-74
MELTF	3.98893565	6.027300492	2.47E-38	3.19E-37
HTR1E	3.993505294	-2.320406188	7.07E-06	1.30E-05
FGF21	3.995672175	-3.277684386	2.42E-09	5.92E-09
MCM10	3.998314043	4.125656621	2.73E-94	1.76E-92
NDST4	3.998889086	-1.979093074	5.11E-05	8.71E-05
ERVV-1	4.003027982	-1.540345378	4.87E-07	9.86E-07
EFNA3	4.00675294	3.464566684	2.24E-59	5.72E-58
PRSS1	4.006774178	0.23587207	3.77E-11	1.05E-10
PRR9	4.012779051	1.089326571	7.08E-07	1.41E-06
NPW	4.01284257	0.384726014	2.14E-20	1.09E-19
TMEM151B	4.016518348	0.162905446	5.05E-18	2.22E-17
KRT35	4.023574679	-3.062518001	9.41E-08	2.02E-07
NCAPH	4.024008132	4.991178649	4.61E-119	5.90E-117
LCE2B	4.026249214	-3.733004634	6.04E-06	1.12E-05
TNP1	4.029532914	-3.560019324	0.00030807	0.000489877
HIST1H2AI	4.031967458	-0.302660135	1.82E-28	1.46E-27
ODAPH	4.036526661	-0.442842034	7.59E-12	2.22E-11
PBK	4.038243185	4.245683675	6.60E-74	2.58E-72
RCOR2	4.040656074	3.376585305	1.21E-31	1.15E-30
HIST1H3J	4.043690301	-2.387115056	9.30E-26	6.46E-25
DMRT3	4.049216394	1.82560291	3.85E-16	1.50E-15
CCNB2	4.04953648	5.514897025	5.45E-119	6.91E-117
CENPF	4.051524071	6.619118447	1.31E-90	7.59E-89
CDHR1	4.051917477	4.027325842	7.45E-23	4.41E-22
PPDPFL	4.054731598	-2.330136361	9.17E-06	1.67E-05

ASPM	4.056488114	5.240272013	7.31E-93	4.51E-91
NIPAL4	4.059795007	3.844554432	7.79E-17	3.18E-16
PKMYT1	4.06045922	4.702862012	2.70E-92	1.64E-90
BEST2	4.065224883	-1.392754685	3.02E-12	9.08E-12
DMRTB1	4.065804882	-3.813109207	9.72E-06	1.76E-05
BECN2	4.067618995	-3.596051316	1.02E-11	2.96E-11
C1QL1	4.067857318	1.397880186	3.52E-22	2.00E-21
INHA	4.069654696	1.502798013	2.39E-15	8.87E-15
ALDH3A1	4.070962069	8.645869756	1.13E-12	3.50E-12
PIWIL1	4.071945959	-1.510265579	5.65E-08	1.23E-07
DEPDC1B	4.072878323	3.783763593	4.01E-85	2.03E-83
TRPM8	4.077475627	0.288299467	2.56E-16	1.01E-15
CDC6	4.079543378	5.427803649	1.19E-102	1.04E-100
CHODL	4.080349742	3.245320447	6.94E-26	4.86E-25
CNMD	4.081454503	0.518436539	4.12E-06	7.73E-06
RAD51AP2	4.088916839	-0.744179132	4.06E-31	3.75E-30
SKA1	4.08937347	3.792517891	5.62E-96	3.86E-94
CDH9	4.0915841	-3.33343103	8.57E-06	1.56E-05
UGT2B28	4.093740909	-2.402822429	1.49E-09	3.69E-09
LCN15	4.09404165	-0.76501096	7.76E-05	0.000130249
AFM	4.097225834	-3.276893641	9.26E-05	0.000154467
C1QTNF12	4.098869793	2.590239071	9.44E-22	5.23E-21
PNLDC1	4.100056013	2.348363979	2.89E-10	7.57E-10
CBLC	4.102685531	5.171025933	2.18E-60	5.71E-59
DLGAP5	4.102756253	4.873139452	2.30E-104	2.08E-102
NEIL3	4.103949428	2.524609182	5.03E-64	1.48E-62
FRG2	4.106540191	-3.807837393	7.23E-09	1.70E-08
CDCA3	4.10672562	4.727521623	5.46E-102	4.62E-100
LOR	4.107877722	-1.379379681	6.53E-10	1.67E-09
KRT25	4.112003733	-3.287893608	3.03E-06	5.75E-06
KCNH1	4.113882972	0.67440687	3.23E-17	1.35E-16
ANLN	4.114129345	6.279334242	1.00E-99	7.94E-98
OR6C2	4.114809742	-3.472792842	3.34E-09	8.07E-09
CBLN2	4.117443322	1.417587433	1.51E-08	3.48E-08
CAPN14	4.122007617	2.329745198	1.53E-18	6.94E-18
NTSR2	4.124254875	-3.246543418	1.76E-09	4.33E-09
NEUROG1	4.127922291	-3.811697916	8.59E-10	2.17E-09
MROH2A	4.128646523	2.001500855	1.22E-11	3.53E-11
ECEL1	4.130745474	2.815992894	7.20E-12	2.11E-11
DBX1	4.134103265	-3.451093468	2.03E-08	4.62E-08
KLK15	4.135803065	-3.231026441	4.75E-08	1.05E-07
SOHLH2	4.136079115	-0.254543003	4.71E-13	1.50E-12
HR	4.136512841	5.764750984	1.42E-27	1.09E-26

POU3F1	4.138375041	1.840309087	7.83E-18	3.40E-17
TOP2A	4.138803449	7.620681634	1.93E-85	9.90E-84
ZIC1	4.138987362	1.898189181	7.03E-08	1.52E-07
OTOP1	4.140536854	-3.553608324	9.51E-08	2.04E-07
PRR27	4.144781175	-3.467631958	1.29E-05	2.32E-05
BUB1B	4.148099553	5.046687346	3.21E-115	3.64E-113
NEFM	4.149678912	1.644112917	1.03E-08	2.40E-08
SMR3B	4.149921637	-3.499761792	0.000311998	0.000495908
B4GALNT1	4.150365526	4.383668274	5.09E-29	4.20E-28
FGF11	4.151595939	1.73049621	3.26E-36	3.83E-35
KIF2C	4.153029219	5.415992883	9.51E-123	1.34E-120
KCNK9	4.153095227	0.014800899	1.55E-18	7.02E-18
APOA1	4.153153113	4.054209176	3.72E-06	6.99E-06
RNF186	4.155377908	-1.504911774	0.000248373	0.000398312
RHBG	4.155476772	-0.632914634	1.87E-20	9.54E-20
CLDN19	4.156420571	0.283587977	1.50E-07	3.15E-07
TBXT	4.158748782	-2.497634872	8.21E-07	1.63E-06
MSI1	4.159277176	3.320507953	4.93E-26	3.49E-25
GSDMC	4.160620595	4.481120209	2.65E-31	2.48E-30
CRABP2	4.161642839	6.796976023	8.60E-26	5.98E-25
NKX6-3	4.162478518	-0.981477023	1.25E-07	2.66E-07
NEUROG3	4.164080511	0.028492875	6.24E-05	0.000105589
ONECUT2	4.164336496	1.176544279	6.94E-27	5.14E-26
GAD1	4.166261079	2.393808388	7.99E-24	5.02E-23
RASAL1	4.171932048	3.360372195	6.06E-43	9.31E-42
OR51E2	4.174629082	-1.351017261	2.88E-10	7.55E-10
FOXE3	4.174733104	-2.008033711	3.37E-14	1.16E-13
WNK2	4.176514491	5.765595409	7.67E-30	6.64E-29
KIF4A	4.181540094	5.116146053	2.16E-129	3.53E-127
MUCL1	4.184196938	2.364387807	1.92E-10	5.09E-10
TMPRSS15	4.186519289	-1.651372135	3.80E-11	1.06E-10
BARX2	4.187670532	3.951892283	2.61E-18	1.17E-17
PLPP4	4.188557685	1.828655778	1.24E-31	1.18E-30
TGIF2LY	4.190645585	-3.772496963	1.47E-05	2.63E-05
GMNC	4.191366076	1.441400697	2.09E-06	4.01E-06
BTBD11	4.193920809	4.699451338	2.00E-40	2.82E-39
NXPH1	4.194824298	-2.775378118	2.57E-13	8.32E-13
ABCC2	4.195791692	3.901989063	2.23E-12	6.79E-12
RIPPLY2	4.197422013	-0.510958452	4.40E-11	1.22E-10
TRIM72	4.201679943	0.729540284	2.35E-12	7.12E-12
RAD54L	4.204235296	3.901296896	3.25E-118	4.01E-116
TH	4.20609253	0.130492164	1.36E-08	3.13E-08
KRTAP2-3	4.219043701	-2.621808767	1.28E-08	2.95E-08

KIF14	4.225683299	4.152085352	6.29E-98	4.62E-96
KRT36	4.226039276	0.112650794	1.90E-11	5.41E-11
QRFRP	4.227714243	1.375276414	5.84E-08	1.27E-07
NWD2	4.230952127	-1.60238551	7.40E-13	2.32E-12
MAGEA8	4.23259447	-0.771074119	2.98E-11	8.35E-11
OTOS	4.237451658	-3.377426674	7.61E-08	1.64E-07
HOXC8	4.240057795	1.987728934	5.31E-27	3.96E-26
CKMT1A	4.240797583	2.719728794	8.81E-36	1.02E-34
PRH2	4.242821953	0.25978904	1.28E-08	2.95E-08
CCKBR	4.243820674	-0.122527721	6.71E-08	1.45E-07
AC116565.1	4.245312503	-3.32955877	3.11E-08	6.95E-08
PRSS50	4.248029851	1.788202698	1.53E-13	5.03E-13
BMP7	4.252017842	6.445154429	8.35E-35	9.20E-34
PSG11	4.254021479	-3.306301224	4.94E-05	8.43E-05
SIX2	4.257890181	4.023346679	9.88E-24	6.19E-23
VTCN1	4.26069752	4.870358158	1.14E-18	5.24E-18
SLC7A11	4.265818643	6.524564874	5.67E-23	3.39E-22
GSC2	4.273722854	-3.36837276	1.00E-09	2.52E-09
EXO1	4.274305192	4.188653001	4.22E-119	5.43E-117
GALNT14	4.276450618	4.999231622	3.46E-34	3.68E-33
CCDC185	4.276700422	-1.73468661	2.70E-25	1.83E-24
SYNPR	4.284164977	-1.937102215	5.36E-08	1.17E-07
TFF1	4.284511503	0.807819417	4.04E-09	9.71E-09
PTH	4.284559688	-3.712242749	4.40E-07	8.94E-07
SLC9A2	4.286975212	3.28849245	4.73E-23	2.84E-22
TAC3	4.291799481	-0.20014621	2.35E-08	5.31E-08
ROPN1	4.294621075	-2.495167687	1.29E-09	3.22E-09
SERPINB2	4.295238611	4.914982675	4.80E-15	1.75E-14
OR5M11	4.295502263	-3.220325419	3.63E-15	1.33E-14
MAGEA2	4.296812128	-3.577964354	7.73E-09	1.82E-08
COCH	4.301301834	4.040573612	8.40E-22	4.67E-21
OBP2B	4.30133206	-1.666066954	7.97E-06	1.46E-05
C12orf54	4.301589859	2.437756209	1.63E-21	8.87E-21
SYT12	4.303252119	3.113964788	6.84E-23	4.06E-22
KRTAP3-1	4.309130772	-0.961200581	1.80E-08	4.11E-08
UGT1A4	4.310492803	-3.073872503	7.35E-16	2.83E-15
TMEM40	4.310580282	4.435774171	5.76E-41	8.29E-40
CRABP1	4.314423466	1.957642349	1.78E-11	5.07E-11
AURKB	4.315229596	4.921661636	2.97E-97	2.14E-95
EPYC	4.316356261	-0.081488449	2.44E-14	8.47E-14
CT55	4.318136934	-1.691757968	4.50E-07	9.13E-07
NCAN	4.319222914	-1.342257139	1.61E-12	4.93E-12
LHFPL5	4.321068124	-2.459004069	2.34E-18	1.05E-17

SERPINB3	4.324492331	6.486041385	3.55E-14	1.22E-13
HRASLS	4.327721684	2.193425258	6.17E-27	4.58E-26
SLC6A2	4.333026323	1.339848669	7.40E-16	2.85E-15
HPDL	4.334720105	2.130858829	4.15E-33	4.20E-32
CCDC140	4.337481764	-3.5435906	2.66E-06	5.06E-06
ST8SIA2	4.347250174	1.17946575	1.14E-16	4.61E-16
HORMAD1	4.348496208	2.540663227	1.90E-14	6.65E-14
LYPD8	4.350343824	0.008027801	5.33E-14	1.80E-13
FERMT1	4.355739137	6.478783715	7.54E-64	2.20E-62
SPZ1	4.356309904	-3.692318396	1.17E-09	2.92E-09
FOXMI	4.365652768	6.549751968	2.86E-94	1.84E-92
APCDD1L	4.370074978	2.157601494	1.28E-20	6.57E-20
ONECUT1	4.371133268	-1.850021625	2.84E-16	1.12E-15
DEPDC1	4.372003514	4.343158988	2.71E-100	2.19E-98
POLQ	4.373384135	4.24236311	4.38E-96	3.03E-94
DHRS2	4.37581518	3.768732629	1.20E-12	3.71E-12
NUF2	4.382940782	4.615859306	4.00E-96	2.78E-94
ALG1L	4.383836608	3.950455297	2.30E-54	5.09E-53
OR2B6	4.390759959	-1.555363367	9.49E-21	4.93E-20
LRRC38	4.392724844	0.405672368	1.46E-10	3.91E-10
CLPSL2	4.393072228	-2.662003484	9.39E-12	2.73E-11
SLC38A11	4.394620344	3.462195382	1.47E-09	3.65E-09
SKOR2	4.397016995	-3.078023633	0.000102045	0.000169432
CDKN2A	4.402421735	5.571211144	6.39E-20	3.15E-19
IAPP	4.405115217	-3.30263988	4.15E-14	1.42E-13
MELK	4.408381537	5.025502005	5.55E-88	3.06E-86
PTH2R	4.415060066	2.248001394	4.02E-13	1.28E-12
EVX1	4.420385772	-2.22010302	3.61E-12	1.08E-11
WFDC5	4.420493718	2.410969423	8.64E-18	3.74E-17
TUBA3E	4.421861388	-0.833369409	1.29E-08	2.98E-08
COL2A1	4.425774095	3.092645979	1.27E-11	3.67E-11
DIRAS2	4.428104889	2.141222314	1.14E-12	3.54E-12
ZMAT4	4.436476817	0.190455438	2.23E-10	5.88E-10
TP53AIP1	4.436546328	3.033177219	4.33E-17	1.80E-16
TRPA1	4.437257814	2.995354795	1.62E-14	5.69E-14
OPRPN	4.437883286	-3.402724304	0.000182559	0.000296382
CDC45	4.445635696	5.031213861	2.72E-99	2.09E-97
DEFA6	4.449017428	-1.473514169	0.00119769	0.001800476
TICRR	4.460838081	4.348165255	1.46E-90	8.42E-89
REG1A	4.469112951	-1.307247999	1.37E-11	3.96E-11
NEK2	4.469267276	4.664976606	2.12E-118	2.65E-116
TEX19	4.474791559	-1.923685371	8.86E-17	3.61E-16
TDRD5	4.476270587	2.771449928	2.08E-22	1.20E-21

HIST1H3G	4.477377708	0.465131287	7.46E-26	5.21E-25
LECT2	4.484197494	-3.316345635	6.84E-10	1.74E-09
CDC20	4.486920105	6.119737322	1.02E-114	1.15E-112
E2F7	4.487350237	4.168149163	3.25E-85	1.65E-83
ANKRD18B	4.487775311	1.733628794	5.86E-31	5.37E-30
STAR	4.490620571	2.566679901	3.82E-20	1.91E-19
C10orf90	4.493927548	-0.855111278	9.57E-15	3.42E-14
CYP4F2	4.497900604	-1.14846591	6.70E-13	2.11E-12
UGT2A1	4.502277626	1.611213765	2.28E-07	4.74E-07
HJURP	4.503169916	4.862261089	5.79E-116	6.82E-114
COX8C	4.504235283	-1.076197303	4.47E-08	9.86E-08
TTK	4.506246098	4.76756754	2.13E-115	2.47E-113
CDH12	4.507578423	0.907588232	3.45E-09	8.35E-09
SSTR5	4.512359411	-1.841012713	2.49E-11	7.02E-11
LUZP4	4.517942617	-3.585267863	1.75E-07	3.68E-07
C1orf61	4.522431407	1.441764201	4.45E-14	1.52E-13
PAGE1	4.528430456	-1.870269355	2.00E-05	3.53E-05
TPX2	4.528693908	6.971139903	4.32E-120	5.68E-118
VCX3A	4.535365665	-2.573984848	4.11E-14	1.41E-13
SERPINA11	4.535629561	-0.234850708	2.04E-12	6.22E-12
CPN1	4.536422886	-3.310351348	1.08E-07	2.29E-07
CT45A10	4.544422458	0.667971568	2.11E-06	4.05E-06
CRYBA2	4.549440918	-1.817775131	1.28E-12	3.96E-12
NKPD1	4.550333776	0.775152564	2.30E-37	2.85E-36
GDNF	4.554626409	1.768188009	2.49E-21	1.34E-20
ARSH	4.5550014	-1.575668075	3.61E-23	2.18E-22
UPK1A	4.558329892	0.668842671	9.87E-12	2.87E-11
NEUROG2	4.565640437	-2.198112613	6.17E-11	1.69E-10
CENPA	4.567027916	3.80951946	7.36E-122	1.01E-119
DCAF12L2	4.570997294	-0.01583632	4.21E-12	1.25E-11
KCNU1	4.572297239	-2.132241298	8.99E-09	2.10E-08
TCL1B	4.574942549	-2.393246795	1.61E-05	2.86E-05
SORCS3	4.574973235	-0.776820081	4.58E-09	1.10E-08
NECTIN1	4.577763364	9.01846052	5.21E-72	1.91E-70
PMP2	4.579075274	0.345910248	3.65E-08	8.09E-08
TUNAR	4.579652063	-1.691923755	5.57E-05	9.47E-05
GDPD2	4.587745802	1.44922243	6.50E-18	2.84E-17
RHOV	4.588956352	5.89403581	5.58E-50	1.09E-48
ALOXE3	4.589165913	1.295429343	9.30E-27	6.83E-26
BIRC5	4.589457878	6.525821211	3.01E-103	2.67E-101
KIAA1549L	4.590986422	4.576197355	1.20E-22	7.00E-22
FDCSP	4.591067738	6.619215442	7.12E-08	1.54E-07
YBX2	4.593477092	2.095448933	7.35E-29	6.02E-28

CLPSL1	4.594348417	-2.01886365	1.40E-09	3.47E-09
BEST3	4.602231237	-0.671458873	6.86E-10	1.75E-09
UCHL1	4.604836318	7.188093958	6.32E-25	4.20E-24
CD8B2	4.606250477	0.347777524	5.59E-09	1.33E-08
MAEL	4.607007927	1.493072733	5.41E-09	1.29E-08
SERPINB7	4.607690532	3.629499936	5.68E-18	2.49E-17
TRIM43	4.616194915	-3.240185539	2.19E-07	4.56E-07
KCNJ18	4.616535085	-1.975033989	1.36E-07	2.88E-07
HIST1H3F	4.617433768	-2.155896483	1.16E-22	6.78E-22
NCCRP1	4.619104638	4.278994834	1.65E-20	8.43E-20
FAM181B	4.62158348	1.754486046	2.08E-27	1.58E-26
TROAP	4.624445131	4.992911655	2.21E-118	2.75E-116
PCDH19	4.626125897	4.632235102	5.08E-21	2.67E-20
CKMT1B	4.626339858	3.200699768	4.38E-41	6.33E-40
KIF18B	4.628482989	4.871963345	3.51E-98	2.61E-96
CTSV	4.632503628	5.348818515	5.95E-48	1.09E-46
LMO1	4.639728048	-0.155373156	1.32E-20	6.78E-20
ZNF556	4.640687991	1.228115705	1.27E-18	5.81E-18
KRT32	4.643074855	-0.527022196	4.06E-21	2.15E-20
LCE1A	4.646462651	-3.322142941	2.10E-06	4.04E-06
AKR1C1	4.649736464	9.295675955	4.75E-18	2.09E-17
MYBL2	4.650261768	6.667048159	3.12E-108	3.08E-106
TUBA3C	4.656625958	-1.99456878	1.08E-06	2.12E-06
CT45A3	4.657982662	-3.506976272	1.03E-08	2.40E-08
EVX2	4.662477092	-3.203738358	1.34E-16	5.38E-16
DUSP13	4.667171953	0.108207725	1.02E-16	4.14E-16
KRTAP17-1	4.669293312	-3.508421035	6.36E-09	1.51E-08
GRM4	4.681134579	1.684206886	1.66E-19	7.97E-19
CASKIN1	4.684646247	0.701488157	1.58E-33	1.63E-32
HTN1	4.68534152	-3.197665933	2.65E-07	5.48E-07
RALYL	4.687112911	-1.735722565	7.65E-08	1.65E-07
CSTL1	4.692593154	-2.176316749	1.14E-20	5.86E-20
CYP2W1	4.702723121	2.078450403	1.43E-14	5.02E-14
TCHHL1	4.705680555	-2.373889824	3.93E-13	1.26E-12
CHGB	4.706266432	3.354701807	7.96E-15	2.86E-14
SLC6A8	4.71201046	8.395883946	3.34E-59	8.45E-58
OR56A3	4.712173443	-2.917399886	2.14E-06	4.11E-06
CGB2	4.712276382	-3.291122667	8.11E-10	2.05E-09
ADAM23	4.721355291	6.80140571	1.63E-21	8.85E-21
CHRN4	4.727255276	1.633914769	3.27E-36	3.84E-35
ADCY10	4.730518845	1.63324204	2.42E-19	1.15E-18
GCGR	4.736927734	0.164810029	1.03E-15	3.92E-15
PSG3	4.737785006	-2.851341303	2.66E-06	5.06E-06

NKX3-2	4.738875293	0.036900677	4.92E-30	4.31E-29
FOXN1	4.741883143	3.64540628	1.29E-23	8.03E-23
SAPCD2	4.745585849	4.997822252	1.46E-68	4.80E-67
UBE2C	4.746584469	5.992197271	1.07E-118	1.35E-116
PRORY	4.750336926	-3.434799394	1.56E-05	2.78E-05
TLX2	4.760904999	0.004000741	2.82E-22	1.61E-21
ALX1	4.76178893	0.070265752	1.73E-11	4.95E-11
PSAT1	4.762943092	6.438537377	1.65E-67	5.29E-66
TAS2R38	4.766293987	-2.443372446	1.72E-18	7.79E-18
KRTAP19-5	4.766958791	-3.426970735	1.19E-06	2.34E-06
TENM2	4.769431214	5.801916162	1.21E-19	5.87E-19
INSM1	4.76975891	2.054020198	7.50E-09	1.77E-08
PSG9	4.770877329	-2.763491078	9.28E-11	2.51E-10
IGSF9	4.773068775	6.435641591	1.38E-62	3.86E-61
LCE1B	4.774158009	-3.011673298	5.74E-14	1.94E-13
IL19	4.777739432	-0.316241783	1.28E-11	3.70E-11
GAGE12J	4.796633827	-3.212787504	6.29E-05	0.000106446
OTX1	4.80095313	4.113950372	7.72E-48	1.41E-46
CGB8	4.800999368	-3.007242418	5.09E-09	1.21E-08
FOXH1	4.805745168	-0.390709736	1.12E-19	5.43E-19
HIST1H3B	4.806426749	-1.725655348	7.85E-29	6.42E-28
RTP3	4.81216793	-1.044010142	3.64E-09	8.79E-09
SLC15A1	4.812690104	2.166647263	2.52E-36	2.98E-35
CST11	4.817089624	-3.414929543	3.91E-12	1.17E-11
PABPC1L2A	4.81866715	-3.413245072	2.77E-08	6.22E-08
HDGFL1	4.820645211	-2.739445883	4.87E-09	1.16E-08
AMBN	4.823651719	-2.057095771	6.61E-06	1.22E-05
CNPY1	4.830092302	-2.381861831	5.06E-09	1.21E-08
MEGF10	4.834465788	2.550108982	2.01E-19	9.60E-19
NMU	4.83531388	2.705454955	6.24E-29	5.12E-28
DCX	4.841398311	-0.822011664	2.69E-07	5.56E-07
PTPRZ1	4.841408774	6.807925985	1.38E-30	1.24E-29
CT45A1	4.842989595	0.987052441	2.37E-05	4.15E-05
ALDH3B2	4.850399666	5.75793636	2.00E-44	3.23E-43
KLK12	4.852532962	2.914489868	4.33E-11	1.20E-10
IGSF11	4.857820454	3.113078551	1.22E-37	1.52E-36
HRG	4.857881799	-0.660044975	3.23E-16	1.27E-15
TRIM29	4.860812086	9.041234576	1.93E-57	4.68E-56
RTL1	4.866307316	-0.769602099	7.35E-06	1.35E-05
KCNQ2	4.870249764	0.277708781	2.35E-10	6.18E-10
CXorf67	4.873000994	0.980805514	4.80E-07	9.73E-07
FAM83F	4.873656763	5.621934077	3.17E-57	7.65E-56
UGT1A1	4.877197173	-1.190900891	1.46E-24	9.54E-24

ATP4B	4.878862937	0.798725723	3.42E-06	6.45E-06
PSG2	4.879643799	-3.199643799	9.49E-06	1.72E-05
FAM9C	4.887017715	0.084153672	1.34E-05	2.40E-05
SPRR2F	4.889742536	3.192312226	6.39E-12	1.88E-11
SLCO6A1	4.897452625	-2.04328003	1.62E-21	8.79E-21
CYP24A1	4.898038486	5.216588618	1.73E-17	7.34E-17
SPP1	4.902599446	9.935160603	6.51E-30	5.66E-29
TCN1	4.907866143	3.050952429	1.26E-14	4.46E-14
SGCZ	4.908257038	-2.34742857	1.12E-11	3.24E-11
RTBDN	4.913461328	-1.210720686	6.90E-18	3.01E-17
AL035425.2	4.913609421	-2.071284429	2.62E-07	5.43E-07
SLC39A2	4.916888339	1.434315346	2.29E-22	1.32E-21
LY6K	4.918406278	4.216658006	2.24E-31	2.10E-30
COL22A1	4.919566868	3.883555486	2.47E-19	1.17E-18
FAM133A	4.923299355	1.565027063	2.18E-12	6.62E-12
CNFN	4.924789191	3.841189596	4.24E-28	3.34E-27
CEACAM7	4.929213386	2.15653929	2.30E-13	7.47E-13
ZNF716	4.929527329	-2.327978205	6.58E-07	1.32E-06
BPIFC	4.943609696	-1.436406657	9.08E-13	2.83E-12
NKAIN1	4.949465978	1.013202813	1.90E-33	1.95E-32
PAX2	4.955596369	-0.812804377	9.75E-10	2.45E-09
SLC24A2	4.964660055	0.881251516	1.26E-40	1.79E-39
DCAF8L1	4.967417282	-3.151808361	1.71E-06	3.31E-06
UGT1A3	4.967599668	-2.385871389	1.62E-22	9.42E-22
FOXI1	4.972900956	2.080374512	2.28E-07	4.74E-07
ADGRD2	4.975638038	-1.150906921	3.68E-26	2.61E-25
MORC1	4.978347568	-0.812936498	1.27E-06	2.49E-06
CST8	4.978594261	-3.297739752	2.91E-10	7.61E-10
SHISA9	4.980905029	2.232547476	8.71E-11	2.36E-10
TRIM15	4.981639868	-0.717958333	2.70E-14	9.36E-14
KCNG1	4.98408559	3.501196131	4.59E-30	4.03E-29
FAM71F1	4.985060131	-0.328714169	2.22E-16	8.82E-16
SOX15	4.988795036	4.811608712	9.86E-40	1.36E-38
FSTL5	4.991095678	0.773337767	6.31E-11	1.73E-10
ISX	4.991387382	-2.560329848	8.60E-09	2.02E-08
UPK1B	4.998849296	7.145941854	2.36E-12	7.14E-12
CHAT	5.00002172	-1.170039728	1.17E-10	3.15E-10
TMEM179	5.005125408	1.121759912	5.54E-12	1.64E-11
CABYR	5.012067415	4.389325353	7.60E-32	7.30E-31
MRGPRX1	5.013428574	-3.285028823	3.02E-06	5.73E-06
ZIC4	5.016039084	-0.259161067	9.23E-11	2.49E-10
CGB5	5.020938465	-2.52468459	4.58E-09	1.10E-08
PDCL2	5.022072003	-2.21237162	5.33E-09	1.27E-08

BCL2L10	5.022853626	1.070352726	2.05E-36	2.43E-35
C4orf17	5.024073608	-1.789541054	1.90E-11	5.39E-11
TEX13B	5.026291423	-3.098991385	8.59E-10	2.17E-09
CALCA	5.026577337	3.513486322	1.73E-06	3.35E-06
SEPT14	5.029075787	-1.841539841	4.28E-07	8.71E-07
TFAP2B	5.030205115	1.939574076	4.60E-10	1.18E-09
CNTN2	5.030720644	2.023769249	4.08E-10	1.06E-09
DDX53	5.030923614	-2.467640704	2.35E-06	4.49E-06
PCDH8	5.034031441	-0.380082425	1.03E-08	2.40E-08
ZAN	5.035755704	-1.646056867	3.23E-17	1.35E-16
HS3ST4	5.040197331	0.672211137	5.01E-09	1.20E-08
OLFM3	5.043692368	-1.150444112	2.75E-07	5.68E-07
EFNA2	5.045557676	-1.791079728	5.45E-18	2.39E-17
ADGRF4	5.048589949	3.68258573	1.50E-35	1.72E-34
H2BFM	5.056499633	-2.366153531	3.07E-17	1.29E-16
IGF2BP3	5.064361356	4.760668521	2.86E-45	4.74E-44
SLITRK1	5.068137988	-1.557355854	1.62E-08	3.70E-08
TRIM49	5.069661686	-3.056812162	4.44E-07	9.02E-07
WDR72	5.076546175	5.859695638	2.12E-53	4.57E-52
FRG2B	5.082214029	-3.249592683	8.37E-09	1.96E-08
CHRNA6	5.083784601	1.756725094	8.54E-11	2.31E-10
UGT2B10	5.084476648	-2.33444267	4.30E-05	7.37E-05
PAGE2B	5.086237591	-0.618756786	3.89E-07	7.95E-07
SOX21	5.088338961	4.600800313	1.01E-27	7.80E-27
MKRN3	5.091174286	2.092421713	1.41E-20	7.22E-20
OR7A5	5.091965638	-0.209987547	3.07E-18	1.37E-17
EPHA8	5.09217388	-1.203010462	3.06E-16	1.20E-15
MYH6	5.095534722	-2.400343368	4.67E-15	1.71E-14
CDK5R2	5.109620091	-0.099352545	4.91E-18	2.16E-17
UGT2A3	5.110288003	-1.177391482	4.51E-06	8.43E-06
GDA	5.116900001	4.250132833	9.43E-23	5.56E-22
SPDYC	5.132911092	0.205604902	6.59E-10	1.68E-09
PNPLA5	5.134600957	-1.885794667	1.11E-12	3.43E-12
SELENOV	5.13504496	-2.329201942	5.89E-11	1.62E-10
APOBEC1	5.149567169	-2.658752799	2.66E-08	5.97E-08
OTOP2	5.154897106	-0.81110966	4.24E-17	1.77E-16
KRT83	5.157318308	-1.081455096	9.41E-15	3.36E-14
EEF1A2	5.186115071	4.559348991	4.42E-17	1.83E-16
GJA3	5.200746362	2.222163356	7.64E-31	6.96E-30
SULT4A1	5.202158218	1.525509457	5.89E-24	3.73E-23
11-Mar	5.205224755	-1.392295257	6.31E-08	1.37E-07
KLK9	5.211438711	-2.987676432	4.22E-10	1.09E-09
CPLX2	5.219430991	3.791657426	2.10E-08	4.76E-08

SLCO1B1	5.221985435	-1.847759862	2.06E-18	9.28E-18
GJB4	5.224386933	2.93460484	6.97E-33	7.00E-32
SLCO1B3	5.224690564	1.68652414	1.26E-12	3.90E-12
HIST1H2BH	5.231095457	1.459718291	4.88E-35	5.43E-34
GPHB5	5.231603314	-2.257963209	7.65E-06	1.40E-05
COL11A1	5.235132236	6.225723694	1.21E-29	1.03E-28
GOLGA6L7	5.236655955	0.229520736	1.58E-11	4.52E-11
FUT9	5.237642965	-0.606233618	2.48E-13	8.03E-13
HOXD10	5.238602815	2.953621216	1.23E-29	1.05E-28
TRIM49B	5.243046314	-2.69032953	9.46E-07	1.87E-06
ZNF695	5.253168877	0.999318336	2.18E-42	3.30E-41
FOXR2	5.25751586	-2.204015786	0.000111138	0.000183646
SOX2	5.264341555	7.651655744	8.86E-34	9.24E-33
RAX	5.26674255	-1.972682676	9.81E-12	2.85E-11
GJB3	5.269160267	5.598148345	1.73E-55	4.00E-54
GP2	5.270928864	1.227882062	1.55E-05	2.76E-05
POU6F2	5.283529464	2.598724126	1.52E-38	1.98E-37
CYP4F3	5.292430095	6.591654158	5.98E-16	2.31E-15
FGB	5.296413118	3.858412943	8.08E-06	1.48E-05
HOXA10	5.304282766	3.049413773	6.00E-54	1.31E-52
KRT38	5.307907043	-1.165774817	5.51E-11	1.52E-10
RNASE10	5.312315299	-0.277256118	4.35E-18	1.93E-17
INSL4	5.315197927	-1.283384602	1.44E-06	2.80E-06
PRB3	5.327655836	1.387778384	1.48E-20	7.58E-20
SLC13A5	5.329425542	2.714773548	1.31E-18	5.99E-18
GABRG3	5.332974232	1.350569202	3.77E-13	1.21E-12
POU4F1	5.333901118	0.414257996	1.46E-19	7.02E-19
FAM69C	5.349671278	0.748524679	2.12E-15	7.92E-15
SLC25A48	5.350547039	0.168659671	8.64E-22	4.80E-21
GHRH	5.350682743	-2.504302003	1.76E-08	4.02E-08
ZYG11A	5.35617733	1.772646412	4.53E-40	6.30E-39
DSC1	5.357176751	1.410537063	1.35E-19	6.53E-19
SNX31	5.361862301	2.623691391	3.73E-21	1.98E-20
RIMS2	5.361887404	2.830069474	1.29E-33	1.34E-32
CEL	5.364863909	4.629372382	9.64E-21	5.00E-20
HAP1	5.365661968	4.456420034	2.68E-32	2.63E-31
RAB3B	5.369399798	4.315326464	1.85E-28	1.48E-27
SLC6A11	5.370957702	2.304733595	1.03E-17	4.45E-17
TPTE	5.373158501	-2.862911206	7.65E-07	1.53E-06
SPERT	5.377945642	0.070709845	6.24E-43	9.57E-42
CGB3	5.385660185	-2.5152703	4.19E-08	9.26E-08
SLC5A12	5.385833085	1.919983611	1.59E-39	2.17E-38
TERT	5.387348653	0.634244562	2.25E-29	1.90E-28

GNG4	5.388112505	4.078356115	6.14E-30	5.34E-29
IL1RAPL2	5.393234052	-0.418176594	5.99E-21	3.15E-20
PAH	5.393970031	1.29027611	2.77E-12	8.35E-12
TFAP2A	5.394751368	5.751154885	1.42E-95	9.54E-94
VIL1	5.397463417	2.439377913	6.30E-12	1.86E-11
KRT33B	5.40549952	-1.738405173	4.02E-14	1.38E-13
SPANXC	5.416231274	-2.661992282	9.75E-07	1.93E-06
CDH18	5.419004789	-0.384065676	1.26E-09	3.15E-09
AC020922.1	5.419332029	-1.737777843	1.33E-12	4.10E-12
SPTSSB	5.427616771	3.363732692	3.46E-24	2.22E-23
CCDC177	5.428402005	0.34341553	9.92E-19	4.56E-18
F2	5.432301167	-0.314855446	1.02E-07	2.18E-07
FGF5	5.434754249	-0.454312134	1.17E-12	3.61E-12
DEFB126	5.438080234	-1.615837048	4.46E-22	2.52E-21
SHOX2	5.43816567	3.110332923	2.55E-47	4.56E-46
PGLYRP4	5.444372211	2.621438297	2.30E-27	1.75E-26
PRB1	5.444763641	-1.810110798	1.61E-06	3.11E-06
TDRD12	5.444997588	2.704547638	4.02E-13	1.28E-12
POU3F2	5.445002362	0.369742333	1.77E-13	5.78E-13
OTOG	5.452339241	-1.533778887	8.56E-16	3.29E-15
DCAF8L2	5.456183074	-2.331750592	1.72E-07	3.62E-07
ARTN	5.457526569	4.378307413	1.69E-49	3.26E-48
TINAG	5.459001438	-2.598537162	1.78E-09	4.38E-09
C11orf86	5.460100765	-1.586732525	5.62E-08	1.23E-07
LY6G6C	5.461462679	2.296474969	2.66E-20	1.34E-19
FAM237A	5.464125945	-2.592859316	3.10E-13	9.96E-13
SH2D5	5.471099895	2.138241407	1.53E-31	1.45E-30
HMX2	5.47656314	-1.882908333	2.97E-15	1.10E-14
FOXB2	5.478576215	-2.489948123	1.31E-07	2.77E-07
UGT2B11	5.478806454	-1.281778803	8.92E-06	1.62E-05
C1QL4	5.486253868	-0.379314072	9.92E-24	6.21E-23
COX6B2	5.491392495	2.466762335	6.38E-24	4.04E-23
ATP4A	5.500602643	0.462157239	1.00E-15	3.84E-15
HEPHL1	5.501765918	3.181543734	7.90E-20	3.86E-19
NKX2-4	5.503708475	-2.040835167	9.40E-09	2.19E-08
APOC3	5.512109357	0.061925462	0.000188809	0.000306095
IGFL4	5.514778897	1.043631815	5.17E-28	4.05E-27
CSN2	5.518251376	-2.625224163	4.78E-07	9.68E-07
ONECUT3	5.520217134	-0.059459671	1.45E-17	6.18E-17
PRSS3	5.535148986	2.087307576	3.79E-19	1.79E-18
LELP1	5.53516659	-2.980968767	1.04E-06	2.05E-06
ZIC2	5.53736876	3.274838899	7.20E-35	7.96E-34
KRT37	5.543579119	-1.901522029	1.56E-16	6.24E-16

IRS4	5.544704355	2.232261852	6.15E-10	1.57E-09
FBN2	5.548941051	6.363881479	6.00E-20	2.96E-19
GBP6	5.551029212	6.406620769	6.78E-32	6.54E-31
TNS4	5.552647786	7.135880635	9.55E-55	2.15E-53
SOX11	5.555780141	2.136830074	1.48E-15	5.59E-15
PRAC1	5.566921517	-2.47941455	8.81E-07	1.75E-06
CNTNAP2	5.572522411	5.713461686	6.49E-25	4.31E-24
KRT3	5.573213777	-0.006597464	6.28E-23	3.75E-22
RNASE7	5.576384512	2.700014129	7.68E-20	3.76E-19
SLURP1	5.580539153	-0.436239474	7.86E-15	2.82E-14
POU3F3	5.587199888	-0.356046609	3.99E-08	8.82E-08
GPR149	5.592106601	0.068441697	4.62E-10	1.19E-09
MMP1	5.594300187	8.000547007	8.28E-27	6.11E-26
CALB1	5.598456355	4.903883492	4.72E-13	1.50E-12
FAM131C	5.605197649	0.718093003	7.58E-57	1.81E-55
TFF2	5.60617595	-0.00182904	7.78E-09	1.83E-08
TSPY3	5.615078187	-2.897912428	2.80E-05	4.87E-05
ESX1	5.622479802	-2.394504605	8.56E-07	1.70E-06
SAGE1	5.633561277	1.043792612	2.38E-08	5.37E-08
TM4SF5	5.64902345	-1.143343003	1.69E-05	3.01E-05
NEFL	5.662474878	4.507582868	1.65E-15	6.21E-15
XAGE5	5.663069359	-2.579444378	4.62E-07	9.38E-07
IL20RB	5.666434032	5.393794407	2.61E-30	2.32E-29
TGM6	5.666618074	-2.001570991	9.51E-10	2.39E-09
ALPI	5.670636265	-1.93300153	3.42E-05	5.91E-05
TMPRSS4	5.677451762	8.005975698	4.90E-53	1.04E-51
ASCL1	5.677709571	3.280202424	1.29E-09	3.22E-09
NPPC	5.68409875	2.60968054	1.52E-16	6.09E-16
MYEOV	5.688098785	3.685623005	1.27E-21	6.96E-21
ISM2	5.691813582	1.581563525	2.35E-22	1.35E-21
DQX1	5.694568692	3.118187771	1.13E-62	3.16E-61
PRAP1	5.696402096	2.304915843	3.16E-14	1.09E-13
CT83	5.700945977	0.915213726	3.98E-08	8.81E-08
AKR1C2	5.721164711	9.105834443	6.78E-26	4.74E-25
KLK8	5.722221654	3.017325216	2.79E-16	1.10E-15
ALX3	5.726091389	-1.185692897	1.96E-11	5.58E-11
MRGPRX3	5.727359805	-0.300253145	2.89E-15	1.07E-14
PYDC1	5.729581609	-0.772973167	2.24E-12	6.80E-12
MMP12	5.732649226	6.539862143	1.39E-45	2.33E-44
ZIC3	5.733450411	-1.316129241	3.50E-09	8.44E-09
UGT1A6	5.743101902	4.422526981	1.63E-31	1.54E-30
LHX3	5.753477818	-1.736446272	1.38E-09	3.43E-09
NPY	5.756566401	1.169519758	8.40E-07	1.67E-06

TGM5	5.756602663	1.756022567	2.37E-26	1.70E-25
VCX	5.769218326	-0.845361446	5.64E-24	3.58E-23
ACP7	5.769526088	3.023520618	9.24E-24	5.80E-23
MMP20	5.77488362	-1.257604413	2.59E-13	8.38E-13
EMX1	5.775358621	0.902243248	6.70E-26	4.69E-25
PSG1	5.776737264	-1.961048327	2.20E-07	4.58E-07
HOXD12	5.777080506	-2.216455423	3.08E-27	2.33E-26
NKAIN2	5.783438823	3.277780938	9.84E-29	8.01E-28
ANXA10	5.783537085	2.231644196	3.20E-14	1.10E-13
SLC2A1	5.785054629	10.04971433	1.05E-83	5.11E-82
TGIF2LX	5.791434522	-2.528419359	1.50E-08	3.44E-08
CYP26A1	5.792320483	3.330866126	8.40E-19	3.88E-18
ASCL4	5.796777636	-0.176163284	5.34E-11	1.47E-10
TRIM48	5.806874216	-2.484041973	9.04E-07	1.79E-06
TP63	5.818811981	9.032604272	5.51E-53	1.16E-51
SDR9C7	5.820921258	0.883523639	2.64E-22	1.51E-21
UGT1A9	5.820960706	-2.496329072	9.52E-14	3.17E-13
GJB5	5.826600833	5.066545192	9.40E-58	2.31E-56
CYP4F11	5.829512622	6.83483738	1.17E-18	5.33E-18
RETNLB	5.83446828	-2.325839963	9.52E-32	9.10E-31
ZPLD1	5.854439807	1.696616209	4.19E-13	1.34E-12
GOLGA6L2	5.859088249	-1.838713801	1.81E-15	6.78E-15
KRT78	5.860364124	2.065014749	1.88E-26	1.36E-25
B4GALNT4	5.865601501	4.813057749	1.12E-65	3.45E-64
COL7A1	5.875309048	8.319906231	9.56E-53	2.01E-51
FOXG1	5.879548029	-0.148997417	2.28E-09	5.57E-09
PLAC1	5.896601527	1.265249213	4.74E-27	3.54E-26
MMP11	5.899016547	7.05944766	3.70E-48	6.83E-47
NR5A1	5.90583174	0.917014812	1.65E-12	5.05E-12
H2BFWT	5.909535518	-1.816774374	2.47E-25	1.68E-24
PNLIPRP3	5.909879855	0.940743595	4.12E-08	9.10E-08
PRDM9	5.912226107	-2.616072175	2.21E-12	6.71E-12
SALL1	5.920572737	1.347244231	1.62E-16	6.47E-16
NEUROD6	5.922727104	-2.598756017	5.24E-05	8.93E-05
SPANXD	5.927386621	-2.607211278	5.78E-07	1.16E-06
CA9	5.933481526	5.60543517	2.23E-27	1.70E-26
LYPD3	5.944587081	7.299680025	1.28E-47	2.31E-46
DSC3	5.94499412	8.401934883	5.17E-45	8.46E-44
CSAG2	5.94535382	-0.325831357	7.98E-14	2.67E-13
NAA11	5.950594646	-0.334289094	3.28E-08	7.32E-08
CLCA2	5.953487125	8.254324872	4.04E-30	3.55E-29
NPBWR1	5.954482261	2.05870499	1.39E-21	7.58E-21
CLEC2L	5.957889886	2.4069923	9.56E-21	4.96E-20

SERPINA4	5.960186843	-1.309707303	1.08E-11	3.12E-11
DMBX1	5.96532331	-0.002842671	3.55E-25	2.39E-24
FOXD3	5.97437626	-0.166877531	9.20E-34	9.57E-33
GLYATL2	5.97692288	2.591788523	2.19E-19	1.04E-18
CFHR4	5.984375562	-1.609501244	1.55E-20	7.90E-20
DSG1	5.985640987	3.456944885	6.30E-19	2.94E-18
MUC2	5.987374728	2.361769005	2.09E-11	5.94E-11
DSG4	5.988899297	-0.838548367	1.43E-17	6.13E-17
CLEC2A	5.995073376	-1.178108666	7.54E-08	1.63E-07
SOX14	6.025758199	0.60239632	2.74E-06	5.22E-06
PDX1	6.0262302	-1.171777322	6.97E-14	2.34E-13
FAT2	6.032236824	7.367045913	1.43E-46	2.49E-45
KRT81	6.043950007	3.955688543	1.03E-14	3.67E-14
ADAM18	6.071734922	-1.867740668	1.36E-07	2.88E-07
IQCM	6.086304381	-2.284097012	6.95E-27	5.14E-26
MSGN1	6.097405515	-1.15155848	4.35E-16	1.70E-15
MMP3	6.098946576	4.082004916	1.60E-24	1.05E-23
STXBP5L	6.100721128	1.797004577	2.60E-18	1.17E-17
TSPY10	6.102947995	-2.495310181	1.51E-05	2.70E-05
FEZF1	6.108884843	2.29123315	8.54E-26	5.94E-25
NR2E1	6.115587659	-0.650170041	7.71E-18	3.35E-17
ABCA12	6.125477022	4.699102479	4.91E-50	9.61E-49
LHX1	6.129015901	-0.489722478	6.86E-12	2.02E-11
COL17A1	6.135808705	8.464034167	4.18E-35	4.68E-34
UGT3A1	6.14234844	1.307189555	1.23E-07	2.62E-07
CSAG3	6.146965854	0.621882153	3.62E-15	1.33E-14
CNTNAP5	6.151375954	-1.096083326	3.05E-17	1.28E-16
PAX3	6.151717371	-0.093295816	1.87E-17	7.95E-17
STRA8	6.160776514	-0.419873655	1.65E-12	5.07E-12
SCGB2A2	6.164671949	-2.016734978	1.78E-05	3.15E-05
INA	6.170262739	2.545227978	6.16E-23	3.68E-22
UCN2	6.172384778	1.831033474	1.63E-40	2.30E-39
PI3	6.180965146	8.08217907	8.01E-21	4.17E-20
ADH7	6.183339345	7.032536903	9.13E-20	4.44E-19
HSD3B1	6.183810742	0.689322966	1.87E-05	3.31E-05
CDX2	6.189464068	0.075733243	4.79E-13	1.52E-12
IL36A	6.191654629	0.407077385	4.18E-12	1.25E-11
CTAG2	6.21074684	2.503582832	1.93E-07	4.03E-07
SLC9A4	6.214918844	1.583053398	3.07E-20	1.54E-19
KHDC1L	6.226936804	0.165270211	6.76E-17	2.77E-16
UNC93A	6.227196546	-0.948943219	4.48E-16	1.75E-15
NTS	6.228278011	8.535161443	4.94E-15	1.80E-14
PASD1	6.228858235	-0.033245291	5.85E-08	1.27E-07

GCG	6.235278283	-1.504455841	1.99E-05	3.51E-05
KIF1A	6.237682108	5.118554967	6.04E-18	2.64E-17
GC	6.246845591	0.463923943	3.57E-05	6.16E-05
TFAP2D	6.258392273	-1.942253249	2.52E-09	6.13E-09
GAL	6.264825527	2.581396603	1.73E-29	1.47E-28
GRHL3	6.265272967	4.972029537	1.02E-57	2.50E-56
KREMEN2	6.265414338	3.992635247	2.64E-31	2.47E-30
DLX5	6.269943731	4.41473626	1.08E-43	1.70E-42
FEZF2	6.271766108	-1.297484684	2.24E-06	4.28E-06
KRT76	6.278423676	-0.297138822	2.79E-13	9.02E-13
CGA	6.282913448	-0.045596658	2.30E-08	5.20E-08
CACNA1B	6.286722225	3.708961559	1.08E-30	9.81E-30
OR6C70	6.307283934	-2.317969005	4.82E-14	1.64E-13
KRT15	6.311196085	9.891587997	1.63E-35	1.86E-34
SBSN	6.312123161	5.440587373	6.66E-19	3.10E-18
EN2	6.316606255	1.459683544	2.36E-24	1.53E-23
PKP1	6.333058473	9.843654089	1.06E-49	2.06E-48
GABRQ	6.34023975	3.219955253	2.42E-35	2.73E-34
MPPED1	6.347737549	2.453048707	7.31E-17	2.99E-16
PSG4	6.35661939	1.473802088	4.93E-13	1.56E-12
PRB4	6.372038837	1.405886083	2.01E-05	3.55E-05
KRT20	6.372923916	1.472670132	8.99E-12	2.62E-11
GJB2	6.377641551	8.119523733	6.01E-39	7.99E-38
NXPH4	6.380707396	5.017930683	3.12E-59	7.93E-58
DLL3	6.396106296	1.510912043	2.05E-25	1.40E-24
ADAMTS20	6.411222466	1.233501162	4.68E-34	4.94E-33
FADS6	6.412742257	1.257438094	2.34E-26	1.68E-25
MAGEB6	6.412824568	-1.783273596	7.40E-16	2.85E-15
SOST	6.416510876	4.715046751	1.32E-14	4.65E-14
OTX2	6.416648953	0.995991816	1.75E-11	4.98E-11
LHX2	6.420176018	1.680856762	2.02E-31	1.90E-30
HOXA11	6.441737476	0.812615642	2.52E-35	2.84E-34
PNCK	6.451484587	4.672128856	3.73E-44	5.96E-43
KRT34	6.451768758	-0.097604983	2.10E-27	1.60E-26
AHSG	6.456923968	2.179102366	1.90E-12	5.79E-12
OLFM4	6.461643483	3.843789004	1.31E-13	4.32E-13
FGF3	6.462098008	0.484066199	5.34E-06	9.92E-06
FAM83A	6.462473098	6.604430765	1.52E-29	1.30E-28
SSX1	6.470646782	-1.480357014	2.32E-09	5.67E-09
SIM1	6.477136847	-0.947091317	3.46E-08	7.70E-08
PSG5	6.485695477	-0.322652907	4.56E-14	1.55E-13
SPRR2B	6.49568689	1.713401259	1.18E-13	3.91E-13
PPP2R2C	6.507172386	5.365735331	3.22E-45	5.30E-44

C6orf15	6.520458649	3.237310969	1.28E-12	3.96E-12
ZIC5	6.522920926	2.241042564	3.56E-41	5.18E-40
IVL	6.523081939	5.568796711	9.97E-25	6.57E-24
GABRR1	6.52826212	1.408006171	6.04E-36	7.02E-35
DYNAP	6.548171395	-1.13718958	1.40E-10	3.75E-10
C1orf68	6.574889874	-1.697869065	1.11E-15	4.24E-15
FAM83B	6.603083099	4.734354276	3.60E-88	2.01E-86
CAPNS2	6.606611023	4.241212847	4.14E-33	4.19E-32
IGFL3	6.612015042	0.645298895	1.98E-16	7.90E-16
MYBPC1	6.627656367	3.283827851	2.10E-11	5.96E-11
METTL11B	6.633116686	-1.469714757	7.36E-41	1.05E-39
GAGE2A	6.64435841	-0.571336584	4.66E-07	9.45E-07
SLC2A2	6.666952579	-0.835275061	2.77E-07	5.73E-07
SPRR2E	6.669986163	5.614411785	8.40E-17	3.42E-16
TSPY2	6.703845595	-1.774132847	1.03E-05	1.87E-05
MUC7	6.704455927	-0.402680658	2.31E-06	4.41E-06
NKX2-2	6.704462227	-0.892054606	1.28E-09	3.19E-09
CLDN17	6.705598918	-1.357187629	1.21E-11	3.50E-11
SOX1	6.717311901	-0.411329689	3.67E-10	9.52E-10
SP8	6.725170708	1.051268992	6.32E-23	3.77E-22
MAGEB16	6.733267777	-1.660015732	5.73E-07	1.15E-06
FAM25A	6.740949668	-0.539213771	5.82E-17	2.40E-16
DMRTA2	6.745902411	2.622916792	2.62E-27	1.99E-26
GPR87	6.757042166	5.921231551	1.11E-68	3.68E-67
DLX1	6.763057335	1.159631564	6.06E-32	5.85E-31
OLIG3	6.775777326	-1.892676912	2.31E-07	4.80E-07
KRT84	6.78315194	-0.615085521	2.00E-17	8.49E-17
SLC6A15	6.785799133	4.149093091	8.09E-30	6.98E-29
KPRP	6.789471383	0.767598555	1.78E-17	7.58E-17
IL36RN	6.791128547	3.983137707	8.88E-26	6.17E-25
APOA2	6.799146457	2.865098723	6.07E-08	1.32E-07
KRT17	6.804896388	11.46706279	1.97E-47	3.53E-46
FOXI3	6.806893444	1.853056551	8.74E-24	5.49E-23
PNMA5	6.811079426	3.300941685	4.12E-11	1.15E-10
PRAC2	6.816890195	-0.869572791	3.41E-13	1.10E-12
KRTAP4-1	6.852181566	-0.219814654	6.96E-43	1.07E-41
PAX7	6.854648853	1.644896605	3.20E-12	9.61E-12
HOXC10	6.854883221	3.054321004	2.29E-24	1.48E-23
CST4	6.857681097	-0.749530901	1.60E-21	8.68E-21
IL36G	6.86074842	4.099838924	6.69E-22	3.74E-21
CLCA4	6.863807063	4.391518507	5.53E-20	2.73E-19
SP9	6.867057128	-0.540015642	1.78E-26	1.29E-25
C12orf56	6.875470267	2.77115801	4.25E-70	1.48E-68

ZNF280A	6.881197183	-0.291321878	3.02E-24	1.94E-23
SPRR2D	6.881230142	6.316861738	4.69E-23	2.82E-22
PITX1	6.884947179	6.603100799	3.84E-58	9.52E-57
LCE1C	6.886115504	-0.61091315	3.10E-19	1.47E-18
PLA2G2F	6.899297898	0.005754924	1.47E-15	5.56E-15
DLX2	6.905549219	0.789564983	4.04E-26	2.87E-25
LHX8	6.91865	-0.020264179	3.68E-12	1.10E-11
PTHLH	6.927971929	7.632796193	2.11E-39	2.85E-38
SMCP	6.929028993	-1.770147392	4.67E-14	1.59E-13
KRT74	6.936176333	0.89905247	2.71E-40	3.80E-39
CST1	6.937628963	4.031644085	3.10E-27	2.34E-26
S100A2	6.963820019	9.502286166	1.58E-41	2.34E-40
MMP10	6.970528633	7.034063438	9.70E-24	6.08E-23
SPANXB1	6.978412932	-0.264349495	8.00E-08	1.72E-07
KRT24	6.980504311	3.257441706	4.52E-11	1.25E-10
SPRR1A	6.988007301	6.202937577	2.55E-22	1.46E-21
RPTN	6.991608258	2.152475901	4.86E-15	1.77E-14
SALL3	6.995868182	0.863157829	9.86E-13	3.07E-12
LIN28B	7.001912833	0.816397488	1.54E-11	4.42E-11
DLK1	7.002161322	4.171177472	5.30E-07	1.07E-06
DAPL1	7.008926641	5.798261231	8.01E-33	8.03E-32
CTCF	7.014458248	3.178031046	1.45E-10	3.87E-10
TMPRSS11B	7.016502543	0.341004664	3.59E-13	1.15E-12
IGF2BP1	7.027440371	3.896583497	5.06E-25	3.39E-24
HMGA2	7.046835666	5.197892477	5.61E-40	7.77E-39
DPYSL5	7.065687396	1.361631101	1.14E-14	4.03E-14
CRCT1	7.080256561	1.910836469	3.31E-16	1.30E-15
DUSP9	7.090240924	3.687443685	5.23E-60	1.36E-58
LIPK	7.095311119	-0.868041512	2.58E-21	1.38E-20
GPX2	7.096832512	8.259684127	1.94E-36	2.31E-35
MT4	7.107016937	-1.40043404	1.56E-05	2.78E-05
KRTDAP	7.108498644	4.423213759	4.99E-17	2.07E-16
SERPINB4	7.110914616	5.136111948	6.53E-23	3.89E-22
HOXC12	7.119417363	0.649023272	6.95E-12	2.04E-11
NGB	7.120689168	0.261245809	5.84E-19	2.72E-18
CRNN	7.122166785	2.957973729	1.86E-09	4.58E-09
SERPINB5	7.122306457	7.688948581	2.33E-69	7.89E-68
TMPRSS11E	7.138221866	5.079053023	8.64E-32	8.29E-31
DPPA2	7.152930857	-0.239699256	1.19E-12	3.67E-12
PADI3	7.164989593	5.457792641	4.11E-21	2.17E-20
LGALS7B	7.169427341	4.470482544	1.00E-25	6.93E-25
A2ML1	7.1730621	6.380749724	1.06E-29	9.07E-29
EN1	7.176231576	2.24047561	1.21E-25	8.35E-25

PSG6	7.203615234	-1.515794753	2.20E-09	5.40E-09
PADI1	7.231578773	3.495916824	5.89E-23	3.52E-22
FGF4	7.235579446	0.430073469	6.10E-06	1.13E-05
MMP13	7.242382764	6.533191986	6.10E-21	3.20E-20
SYT14	7.251388824	2.618049219	1.72E-38	2.24E-37
KLK6	7.255761706	4.120826175	1.30E-21	7.11E-21
HMX1	7.263680794	-0.353994317	2.70E-13	8.74E-13
LCE1F	7.267898418	-0.761015403	1.16E-15	4.40E-15
DMRT1	7.296861282	-0.015234155	4.15E-29	3.44E-28
PRSS56	7.307604886	-0.810578447	3.88E-11	1.08E-10
SPRR2A	7.317652232	6.915958926	1.15E-22	6.73E-22
GABRA5	7.325145372	1.255075655	1.13E-13	3.74E-13
SERPINB13	7.329287476	6.665854683	9.30E-31	8.44E-30
DEFA5	7.336834189	-0.068896507	4.37E-05	7.49E-05
GABRG2	7.337856817	0.662604777	3.77E-16	1.48E-15
GAGE1	7.341929254	-0.940496565	3.03E-07	6.25E-07
BRDT	7.344681228	2.049212358	1.12E-12	3.46E-12
GABRA3	7.353846976	3.226827832	1.96E-66	6.09E-65
GAST	7.379248416	0.618517607	4.47E-25	3.00E-24
LCE3E	7.384963244	0.147012678	9.59E-17	3.89E-16
LCE3A	7.387160006	-0.757013576	1.70E-15	6.38E-15
GFY	7.390629669	-0.196300732	2.83E-15	1.05E-14
KRT5	7.396896098	12.3742632	6.69E-52	1.38E-50
HOXB9	7.409647065	2.984501086	7.43E-23	4.41E-22
LY6D	7.43191621	7.202192118	4.07E-21	2.15E-20
KRT9	7.434019634	0.011407135	1.38E-30	1.24E-29
ZP4	7.444179664	-1.307067358	6.19E-11	1.70E-10
PRDM13	7.453653189	0.18366682	5.59E-30	4.88E-29
ERVV-2	7.460510057	-1.025778355	7.45E-10	1.89E-09
IGFL1	7.461603886	3.525249084	2.21E-21	1.19E-20
USH1G	7.462064154	2.820361373	8.75E-47	1.54E-45
SPRR2G	7.478461672	3.21648112	2.02E-17	8.54E-17
SPRR3	7.492283607	7.288541369	1.89E-20	9.63E-20
PPP4R3C	7.509083905	-1.251076017	1.51E-09	3.73E-09
TMPRSS11F	7.513684633	1.540777482	2.38E-30	2.11E-29
NKX2-5	7.52511249	1.517135905	3.94E-23	2.37E-22
TMPRSS11D	7.531026924	5.332784831	5.26E-26	3.72E-25
TSPY1	7.547709038	-1.227340562	3.20E-06	6.05E-06
KRTAP19-1	7.550612566	0.181552696	1.36E-18	6.19E-18
LGALS7	7.557025826	3.138058043	1.52E-19	7.31E-19
HTR2C	7.569404061	1.268100476	2.83E-34	3.02E-33
GNGT1	7.57142593	1.75619729	1.56E-102	1.35E-100
AC011473.4	7.589345821	0.676662095	1.01E-15	3.87E-15

CSAG1	7.607037849	2.556462748	4.59E-16	1.79E-15
NPSR1	7.625369708	1.121270877	6.67E-25	4.43E-24
MYOD1	7.647948569	-0.469224495	2.72E-13	8.79E-13
VAX1	7.678178809	0.41269798	3.69E-24	2.37E-23
FAM83C	7.710994775	4.215432227	6.98E-28	5.44E-27
GLYATL3	7.72595333	-0.588529941	1.89E-07	3.95E-07
SPRR1B	7.739852365	7.443039437	4.91E-29	4.06E-28
KRT13	7.746068283	9.543006662	1.18E-25	8.15E-25
TLX3	7.773322568	0.064454199	2.59E-20	1.31E-19
SPRR4	7.774272453	1.146436972	2.80E-17	1.18E-16
FOXL2	7.806902111	1.853226982	8.47E-28	6.58E-27
CERS3	7.814437896	4.849017446	2.26E-48	4.21E-47
MAGEA9	7.862113313	-0.5111150494	3.62E-12	1.08E-11
UGT1A8	7.872303876	0.932011542	1.26E-13	4.18E-13
RAET1L	7.895532101	3.379681763	3.58E-43	5.54E-42
SLC1A6	7.930474249	2.739353477	4.85E-20	2.41E-19
HOXC11	7.93140398	1.688192629	2.18E-30	1.94E-29
DLX6	7.938782969	3.096910912	3.38E-53	7.20E-52
FABP7	7.960236766	3.879020563	2.27E-14	7.90E-14
FOXL2NB	7.974164626	1.209889061	1.02E-23	6.39E-23
LCE3D	7.9759997	2.037372103	9.35E-17	3.80E-16
FOXE1	7.986222324	6.249450574	1.26E-42	1.92E-41
DKK4	7.998769545	2.893050807	2.69E-14	9.29E-14
KRT75	8.003547664	3.957243409	4.25E-24	2.71E-23
PGLYRP3	8.015699529	2.971758121	2.63E-35	2.97E-34
CALML5	8.024679787	5.083686829	2.40E-20	1.21E-19
HOXA13	8.029122959	1.589236592	5.90E-46	1.00E-44
GPR50	8.036622123	1.401592123	2.12E-19	1.01E-18
KRT16	8.043668161	9.615139643	1.18E-37	1.48E-36
AKR1B15	8.045541898	3.883850353	1.57E-32	1.55E-31
DSG3	8.050334467	8.629727567	2.30E-50	4.55E-49
PITX2	8.059250585	2.719307288	8.17E-32	7.84E-31
TMPRSS11A	8.0779323	4.891934134	1.02E-25	7.08E-25
OTOP3	8.084367171	2.0929737	3.69E-14	1.27E-13
SLC18A3	8.086694929	1.207601316	1.42E-19	6.85E-19
KRT6A	8.097670104	11.78645491	1.26E-53	2.73E-52
NOBOX	8.122043861	0.268838827	5.51E-08	1.20E-07
DCAF4L2	8.126895721	0.668114484	3.11E-07	6.41E-07
C10orf99	8.134214181	3.65800638	1.65E-28	1.33E-27
FETUB	8.173365883	3.200233908	4.12E-19	1.94E-18
CARD18	8.208823615	0.220421166	5.10E-22	2.87E-21
KRT6B	8.220055661	8.636406825	4.63E-38	5.91E-37
TLX1	8.228389508	1.283648358	5.86E-19	2.73E-18

HOXB13	8.253536197	2.815659616	3.48E-21	1.85E-20
SERPINB12	8.269324139	2.167019572	2.56E-18	1.15E-17
AMTN	8.27156911	4.717027685	8.51E-18	3.69E-17
ACTL8	8.271619625	0.936873088	1.08E-19	5.23E-19
AKR1B10	8.278027171	8.577543478	2.10E-29	1.78E-28
MAGEB1	8.317524665	-0.497151584	8.56E-09	2.01E-08
S100A7A	8.320608254	3.863778134	6.04E-19	2.82E-18
KRT6C	8.406433738	6.745417028	3.31E-29	2.76E-28
NKX1-2	8.442702264	2.028227439	2.75E-31	2.56E-30
UGT1A10	8.457549325	3.316920431	2.50E-13	8.11E-13
MAGEA1	8.538654324	3.711834611	3.67E-16	1.44E-15
HOXC13	8.548938128	2.511058653	6.41E-61	1.70E-59
PRAME	8.550848642	6.14581913	6.11E-48	1.12E-46
UGT1A7	8.568066176	4.610855003	1.31E-20	6.71E-20
KRT77	8.615184093	1.890018895	1.15E-23	7.18E-23
MAGEA12	8.64729317	3.003358733	4.80E-14	1.63E-13
RHCG	8.682653508	6.770296044	1.66E-31	1.57E-30
MAGEC1	8.692019567	1.969860672	2.34E-11	6.61E-11
HOXD11	8.692367541	2.016903015	5.38E-51	1.08E-49
S100A7	8.745079206	6.793292289	5.43E-22	3.05E-21
BARX1	8.749039229	3.506634458	6.41E-35	7.11E-34
FGF19	8.775049146	3.051138223	7.15E-14	2.40E-13
NR0B1	8.782102731	3.426857038	2.06E-14	7.20E-14
KRT14	8.793799659	10.09468664	6.74E-27	4.99E-26
CSN1S1	8.802390634	1.67396935	1.28E-06	2.50E-06
FTHL17	8.818185137	0.23508957	7.92E-09	1.86E-08
LHX5	8.849123117	1.271465699	1.67E-40	2.37E-39
GJB6	8.8633685	6.913199896	1.12E-45	1.89E-44
STATH	8.887971356	2.036984643	5.90E-11	1.62E-10
KRT33A	8.945530174	0.921606848	2.43E-23	1.48E-22
MAGEA4	8.980411297	6.582709372	2.31E-21	1.24E-20
MAGEB2	8.985505721	3.070429892	2.42E-14	8.42E-14
PAGE2	9.004639388	2.192902813	1.28E-09	3.18E-09
MAGEA11	9.018565667	3.538842604	9.19E-21	4.78E-20
MAGEC2	9.087792293	2.791478876	4.82E-11	1.33E-10
IRX4	9.133371575	3.22180356	3.60E-29	3.00E-28
SOHLH1	9.169335846	2.90191567	3.51E-19	1.66E-18
HOXD13	9.203694634	2.90847138	3.38E-33	3.43E-32
CALML3	9.220644415	8.296972425	1.19E-49	2.29E-48
MAGEA10	9.247803117	3.270660122	6.75E-18	2.95E-17
MAGEA9B	9.266455941	1.298375186	5.66E-22	3.18E-21
COX7B2	9.336289584	0.481696374	2.03E-11	5.77E-11
CASP14	9.702993134	4.559488045	1.29E-16	5.20E-16

MAGEA6	9.879805865	4.377067655	6.81E-22	3.80E-21
KRT31	9.909010021	4.218136939	7.12E-27	5.27E-26
MAGEA3	9.91978563	4.497322882	4.25E-22	2.41E-21
CSN3	10.63608689	3.486133999	3.51E-08	7.79E-08