

Supplementary Table 2A Co-expressed genes positively associated with MRPL19

Query	Statistic	P-value	FDR (BH)	Event_SD	Event_TD
MRPL19	1	1.00E-54	1.00E-50	515	515
MTIF2	0.6119935	3.05E-54	3.05E-50	515	515
WDR43	0.60654904	4.61E-53	3.07E-49	515	515
CCT7	0.58990075	1.35E-49	6.77E-46	515	515
LRPPRC	0.58339135	2.72E-48	1.09E-44	515	515
C2orf3	0.58040145	1.05E-47	3.50E-44	515	515
PNO1	0.57807127	2.99E-47	8.55E-44	515	515
NOL10	0.56935423	1.39E-45	3.48E-42	515	515
KCMF1	0.56416454	1.30E-44	2.88E-41	515	515
PNPT1	0.56036752	6.48E-44	1.30E-40	515	515
EPT1	0.55183832	2.23E-42	4.05E-39	515	515
RAB10	0.54900727	7.05E-42	1.17E-38	515	515
YIPF4	0.5475957	1.25E-41	1.92E-38	515	515
TTC27	0.54665865	1.82E-41	2.60E-38	515	515
IMMT	0.54531039	3.12E-41	4.16E-38	515	515
HSPD1	0.54317456	7.31E-41	9.14E-38	515	515
DDX1	0.54260461	9.17E-41	1.08E-37	515	515
PEX13	0.53753498	6.72E-40	7.47E-37	515	515
SMEK2	0.53583764	1.30E-39	1.30E-36	515	515
CEBPZ	0.53473024	2.00E-39	1.90E-36	515	515
MPHOSPH	0.53215313	5.37E-39	4.88E-36	515	515
RAB1A	0.52885019	1.89E-38	1.64E-35	515	515
DARS2	0.52820185	2.41E-38	2.01E-35	515	515
FAM136A	0.52571433	6.15E-38	4.92E-35	515	515
CPSF3	0.51596769	2.23E-36	1.72E-33	515	515
MRPL42	0.51454512	3.74E-36	2.77E-33	515	515
GFPT1	0.51135929	1.17E-35	8.37E-33	515	515
MTHFD2	0.51031576	1.70E-35	1.17E-32	515	515
PRPF40A	0.51022025	1.76E-35	1.17E-32	515	515
PPP3R1	0.50919669	2.53E-35	1.63E-32	515	515
NDUFS1	0.50884419	2.87E-35	1.79E-32	515	515
ACTR2	0.50735249	4.86E-35	2.94E-32	515	515
PCBP1	0.5059049	8.08E-35	4.75E-32	515	515
DDX18	0.50563457	8.89E-35	5.08E-32	515	515
ACP1	0.50313012	2.13E-34	1.15E-31	515	515
CCT4	0.50109463	4.31E-34	2.27E-31	515	515
ATIC	0.49892265	9.10E-34	4.65E-31	515	515
FAM98A	0.49885853	9.30E-34	4.65E-31	515	515
NCKAP1	0.49681447	1.87E-33	9.12E-31	515	515
WDR12	0.49327554	6.19E-33	2.95E-30	515	515
PSME4	0.49023277	1.71E-32	7.97E-30	515	515

DHX57	0.48788075	3.74E-32	1.63E-29	515	515
PAICS	0.48644398	6.01E-32	2.56E-29	515	515
PSMD12	0.48461545	1.09E-31	4.56E-29	515	515
KPNB1	0.48395707	1.36E-31	5.54E-29	515	515
ZC3H15	0.48357898	1.54E-31	6.14E-29	515	515
SNRNP27	0.48327441	1.70E-31	6.64E-29	515	515
PDCL3	0.48292425	1.90E-31	7.30E-29	515	515
MRPL30	0.47853027	7.85E-31	2.80E-28	515	515
EIF5B	0.47742791	1.12E-30	3.91E-28	515	515
GTF3C2	0.47669544	1.41E-30	4.86E-28	515	515
SPAST	0.47596595	1.78E-30	6.03E-28	515	515
IARS2	0.47039568	1.03E-29	3.31E-27	515	515
PTCD3	0.46907926	1.55E-29	4.76E-27	515	515
SRPK1	0.4688199	1.68E-29	5.08E-27	515	515
LCLAT1	0.46867071	1.76E-29	5.24E-27	515	515
DENR	0.46841628	1.90E-29	5.59E-27	515	515
MRPL35	0.46732566	2.66E-29	7.61E-27	515	515
STAMBP	0.46575411	4.32E-29	1.18E-26	515	515
VRK2	0.46526352	5.03E-29	1.36E-26	515	515
GTPBP4	0.46166025	1.51E-28	3.91E-26	515	515
TFAM	0.46077462	1.97E-28	5.05E-26	515	515
DDX52	0.46029713	2.28E-28	5.76E-26	515	515
KRR1	0.45957887	2.83E-28	7.01E-26	515	515
MKI67IP	0.45956576	2.84E-28	7.01E-26	515	515
R3HDM1	0.45911946	3.25E-28	7.91E-26	515	515
UCHL5	0.45834247	4.10E-28	9.87E-26	515	515
MRPL3	0.4580902	4.42E-28	1.05E-25	515	515
XPO1	0.45731036	5.58E-28	1.31E-25	515	515
RNASEH1	0.45645394	7.21E-28	1.66E-25	515	515
SF3B14	0.45606927	8.08E-28	1.84E-25	515	515
NOLC1	0.45439282	1.33E-27	2.99E-25	515	515
PPAT	0.45375922	1.60E-27	3.48E-25	515	515
BOLA3	0.45355076	1.70E-27	3.66E-25	515	515
EIF3J	0.45334891	1.81E-27	3.81E-25	515	515
UBXN2A	0.45133152	3.27E-27	6.82E-25	515	515
MOBKL1B	0.4505509	4.11E-27	8.48E-25	515	515
POLR1B	0.45017708	4.59E-27	9.36E-25	515	515
SLC30A6	0.44989321	4.98E-27	1.01E-24	515	515
MEMO1	0.44900442	6.46E-27	1.29E-24	515	515
MRPS35	0.4479817	8.69E-27	1.70E-24	515	515
CCT3	0.44789975	8.90E-27	1.73E-24	515	515
NAA15	0.44676656	1.23E-26	2.34E-24	515	515
MSH2	0.44674572	1.24E-26	2.34E-24	515	515
PSME3	0.44591699	1.58E-26	2.92E-24	515	515

SUV39H2	0.44525903	1.91E-26	3.49E-24	515	515
TSR1	0.44405387	2.69E-26	4.76E-24	515	515
TPRKB	0.44326808	3.37E-26	5.75E-24	515	515
PPM1G	0.44319466	3.44E-26	5.83E-24	515	515
HEATR1	0.44308164	3.55E-26	5.97E-24	515	515
USP39	0.4423227	4.41E-26	7.26E-24	515	515
SMYD5	0.44222893	4.53E-26	7.36E-24	515	515
PPP1CB	0.43953047	9.72E-26	1.54E-23	515	515
ECT2	0.43836885	1.35E-25	2.12E-23	515	515
OLA1	0.43762644	1.66E-25	2.59E-23	515	515
PSMD14	0.43755535	1.69E-25	2.62E-23	515	515
C12orf48	0.43727169	1.83E-25	2.79E-23	515	515
TRUB1	0.43710441	1.92E-25	2.88E-23	515	515
TMED2	0.43668083	2.16E-25	3.20E-23	515	515
PDIA6	0.43640711	2.33E-25	3.40E-23	515	515
PAWR	0.43604514	2.58E-25	3.74E-23	515	515
SSB	0.43558207	2.93E-25	4.22E-23	515	515
XRCC5	0.43454173	3.92E-25	5.59E-23	515	515
UGP2	0.43446428	4.00E-25	5.67E-23	515	515
YARS2	0.43415845	4.35E-25	6.09E-23	515	515
SRP72	0.4336962	4.95E-25	6.73E-23	515	515
LSM12	0.43344523	5.30E-25	7.11E-23	515	515
TWF1	0.43337448	5.41E-25	7.20E-23	515	515
MTRF1	0.43328273	5.55E-25	7.34E-23	515	515
GPNPAT1	0.43294081	6.09E-25	7.96E-23	515	515
RPAP3	0.43279155	6.35E-25	8.24E-23	515	515
VPS54	0.43180638	8.33E-25	1.07E-22	515	515
EIF2AK2	0.43154626	8.94E-25	1.13E-22	515	515
YWHAQ	0.42859426	2.00E-24	2.45E-22	515	515
MSH6	0.42852665	2.04E-24	2.48E-22	515	515
E2F6	0.42804893	2.32E-24	2.81E-22	515	515
KIF20B	0.4279469	2.39E-24	2.87E-22	515	515
EXO1	0.42777109	2.50E-24	3.00E-22	515	515
LARP4	0.42762888	2.60E-24	3.08E-22	515	515
ABCE1	0.42752443	2.68E-24	3.15E-22	515	515
EPRS	0.426823	3.23E-24	3.78E-22	515	515
CENPO	0.4256198	4.47E-24	5.14E-22	515	515
LRRC59	0.42559566	4.50E-24	5.14E-22	515	515
TMTC3	0.42463163	5.83E-24	6.40E-22	515	515
CHUK	0.42458394	5.91E-24	6.45E-22	515	515
5-Mar	0.42427937	6.41E-24	6.96E-22	515	515
TMEM33	0.42407174	6.77E-24	7.28E-22	515	515
RRM2	0.42374717	7.39E-24	7.90E-22	515	515
HDGF	0.42314242	8.68E-24	9.18E-22	515	515

URB2	0.42225978	1.10E-23	1.14E-21	515	515
NEK2	0.42188725	1.21E-23	1.24E-21	515	515
KIF11	0.42157022	1.32E-23	1.35E-21	515	515
RPE	0.42092183	1.57E-23	1.57E-21	515	515
KPNA2	0.4207355	1.65E-23	1.64E-21	515	515
MCM10	0.41965453	2.19E-23	2.15E-21	515	515
PBK	0.4190849	2.54E-23	2.47E-21	515	515
BLM	0.41842507	3.03E-23	2.89E-21	515	515
TDG	0.4183515	3.08E-23	2.94E-21	515	515
STRAP	0.41801148	3.37E-23	3.20E-21	515	515
NAA25	0.41783387	3.53E-23	3.32E-21	515	515
MTA3	0.41762847	3.73E-23	3.48E-21	515	515
NCL	0.41722096	4.15E-23	3.82E-21	515	515
CDC73	0.41696918	4.43E-23	4.06E-21	515	515
C15orf23	0.41605621	5.62E-23	5.08E-21	515	515
PTPN11	0.41564559	6.26E-23	5.61E-21	515	515
TOMM70A	0.4148289	7.73E-23	6.90E-21	515	515
EPCAM	0.414646	8.11E-23	7.20E-21	515	515
PSMD11	0.4144297	8.58E-23	7.58E-21	515	515
ALDH18A1	0.41441747	8.61E-23	7.58E-21	515	515
PDHX	0.41424097	9.01E-23	7.90E-21	515	515
INTS7	0.41274811	1.32E-22	1.14E-20	515	515
KIF14	0.4124349	1.44E-22	1.23E-20	515	515
DDX21	0.41219171	1.53E-22	1.30E-20	515	515
AHCTF1	0.41182507	1.68E-22	1.42E-20	515	515
CCDC43	0.41116283	1.99E-22	1.66E-20	515	515
UBE2K	0.41045209	2.39E-22	1.98E-20	515	515
TSSC1	0.41042915	2.40E-22	1.98E-20	515	515
NARS	0.41024661	2.52E-22	2.06E-20	515	515
LIN9	0.41010428	2.61E-22	2.13E-20	515	515
TOP2A	0.41008993	2.62E-22	2.13E-20	515	515
YME1L1	0.40942446	3.10E-22	2.51E-20	515	515
BZW1	0.40864658	3.78E-22	3.04E-20	515	515
SLC5A6	0.40817477	4.26E-22	3.35E-20	515	515
CDC27	0.40778415	4.71E-22	3.69E-20	515	515
UBE2V2	0.40768512	4.83E-22	3.77E-20	515	515
ARHGAP1	0.40726045	5.37E-22	4.16E-20	515	515
ANAPC1	0.40698418	5.76E-22	4.41E-20	515	515
SGOL1	0.40688646	5.91E-22	4.51E-20	515	515
UNG	0.40655374	6.42E-22	4.86E-20	515	515
BUB1B	0.40655335	6.42E-22	4.86E-20	515	515
RRP15	0.4055269	8.32E-22	6.25E-20	515	515
ENTPD7	0.40547689	8.43E-22	6.31E-20	515	515
C12orf11	0.40522318	8.98E-22	6.67E-20	515	515

GMCL1	0.40516954	9.10E-22	6.74E-20	515	515
DNM1L	0.40451401	1.07E-21	7.88E-20	515	515
UGGT1	0.40234355	1.84E-21	1.34E-19	515	515
CKAP2L	0.4023382	1.85E-21	1.34E-19	515	515
TLK1	0.40156224	2.24E-21	1.61E-19	515	515
C2orf49	0.40155051	2.25E-21	1.61E-19	515	515
TMEM185	0.40136751	2.35E-21	1.67E-19	515	515
MCFD2	0.40088895	2.65E-21	1.87E-19	515	515
PPP1CC	0.40045231	2.95E-21	2.06E-19	515	515
DARS	0.40001764	3.28E-21	2.27E-19	515	515
CEP55	0.40000174	3.29E-21	2.27E-19	515	515
GPN1	0.39986313	3.41E-21	2.34E-19	515	515
ZWILCH	0.39943312	3.79E-21	2.57E-19	515	515
C2orf47	0.39838388	4.90E-21	3.30E-19	515	515
BUB1	0.39765128	5.87E-21	3.94E-19	515	515
TXNDC9	0.39684576	7.15E-21	4.73E-19	515	515
RFC3	0.3967674	7.28E-21	4.81E-19	515	515
PSMD1	0.39654158	7.70E-21	5.04E-19	515	515
NUP37	0.39580396	9.21E-21	6.00E-19	515	515
DLAT	0.39528958	1.04E-20	6.74E-19	515	515
CCNB2	0.39480993	1.17E-20	7.45E-19	515	515
RACGAP1	0.39480551	1.17E-20	7.45E-19	515	515
SSR1	0.39448375	1.27E-20	8.01E-19	515	515
GFM1	0.39377305	1.51E-20	9.41E-19	515	515
KIF5B	0.3935088	1.61E-20	1.00E-18	515	515
CENPA	0.39301365	1.81E-20	1.12E-18	515	515
USP14	0.39295498	1.84E-20	1.13E-18	515	515
RAD23B	0.39245176	2.07E-20	1.26E-18	515	515
MDH1	0.39203614	2.29E-20	1.38E-18	515	515
PUS7	0.39158784	2.55E-20	1.52E-18	515	515
RAN	0.39108901	2.87E-20	1.70E-18	515	515
ATP5B	0.39070736	3.15E-20	1.85E-18	515	515
KIF18A	0.38978817	3.92E-20	2.26E-18	515	515
CCNB1	0.38977108	3.94E-20	2.27E-18	515	515
C1orf124	0.38940896	4.29E-20	2.45E-18	515	515
FARSB	0.38939758	4.30E-20	2.45E-18	515	515
NOP58	0.38846247	5.37E-20	3.01E-18	515	515
IARS	0.38831645	5.56E-20	3.11E-18	515	515
FAM72A	0.387792	6.30E-20	3.50E-18	515	513
ARL5B	0.38761904	6.56E-20	3.63E-18	515	515
NCAPG	0.38747463	6.79E-20	3.74E-18	515	515
MTPAP	0.38744484	6.84E-20	3.75E-18	515	515
XPOT	0.38723136	7.19E-20	3.94E-18	515	515
AFTPH	0.386866	7.84E-20	4.25E-18	515	515

C17orf53	0.3866994	8.15E-20	4.38E-18	515	515
CDC6	0.38625839	9.05E-20	4.81E-18	515	515
MAD2L1	0.38575435	1.02E-19	5.38E-18	515	515
ERCC6L	0.38469972	1.30E-19	6.74E-18	515	515
MRPS5	0.38440721	1.40E-19	7.18E-18	515	515
NCAPH	0.38431394	1.43E-19	7.30E-18	515	515
RIOK1	0.38420901	1.46E-19	7.46E-18	515	515
KIF23	0.38411784	1.49E-19	7.58E-18	515	515
PRC1	0.38386774	1.58E-19	7.95E-18	515	515
OIP5	0.38349918	1.73E-19	8.56E-18	515	515
NOL11	0.38333696	1.79E-19	8.85E-18	515	515
SLC4A1AP	0.38255397	2.15E-19	1.05E-17	515	515
DUSP11	0.38251533	2.17E-19	1.06E-17	515	515
ERGIC2	0.38238222	2.24E-19	1.08E-17	515	515
ASPM	0.38209945	2.39E-19	1.15E-17	515	515
ZBTB41	0.38166634	2.64E-19	1.26E-17	515	515
ORC2L	0.38127926	2.89E-19	1.36E-17	515	515
CRIP1	0.38120617	2.94E-19	1.38E-17	515	515
SKA1	0.38116341	2.97E-19	1.39E-17	515	515
ARL5A	0.38112347	3.00E-19	1.40E-17	515	515
GTF3C3	0.38105542	3.05E-19	1.42E-17	515	515
AGFG1	0.38102985	3.06E-19	1.42E-17	515	515
DEPDC1	0.38090154	3.16E-19	1.46E-17	515	515
MRPL15	0.38089147	3.16E-19	1.46E-17	515	515
VDAC2	0.38065881	3.34E-19	1.54E-17	515	515
YWHAZ	0.38016071	3.74E-19	1.71E-17	515	515
C10orf2	0.37962787	4.23E-19	1.92E-17	515	515
NUF2	0.37917461	4.70E-19	2.12E-17	515	515
NAA50	0.37898223	4.91E-19	2.20E-17	515	515
KIAA0101	0.37894864	4.95E-19	2.21E-17	515	515
UBE2T	0.37892597	4.97E-19	2.22E-17	515	515
NEDD1	0.37890166	5.00E-19	2.23E-17	515	515
SGOL2	0.37847506	5.52E-19	2.43E-17	515	515
FASTKD2	0.37838244	5.63E-19	2.48E-17	515	515
FAM45A	0.37789736	6.30E-19	2.76E-17	515	515
SUZ12	0.37788221	6.32E-19	2.76E-17	515	515
PGAM5	0.37744153	6.99E-19	3.04E-17	515	515
IPO7	0.37719108	7.40E-19	3.19E-17	515	515
CYCS	0.37619403	9.29E-19	3.96E-17	515	515
PRMT3	0.37584237	1.01E-18	4.25E-17	515	515
PPIL1	0.37548737	1.09E-18	4.58E-17	515	515
AURKA	0.37521013	1.16E-18	4.83E-17	515	515
CCDC138	0.37483227	1.26E-18	5.24E-17	515	515
WDR75	0.37451256	1.36E-18	5.58E-17	515	515

CCNA2	0.37421962	1.45E-18	5.95E-17	515	515
EHBP1	0.3739394	1.55E-18	6.30E-17	515	515
ESCO2	0.37382991	1.59E-18	6.44E-17	515	515
SKA3	0.37367074	1.64E-18	6.63E-17	515	515
TMPO	0.37328831	1.79E-18	7.16E-17	515	515
CACYBP	0.37327128	1.80E-18	7.18E-17	515	515
PA2G4	0.37300448	1.91E-18	7.59E-17	515	515
SPAG5	0.37216194	2.31E-18	9.06E-17	515	515
KRAS	0.37213696	2.32E-18	9.10E-17	515	515
NUSAP1	0.3714209	2.72E-18	1.06E-16	515	515
ORC1L	0.37115433	2.89E-18	1.12E-16	515	515
EIF5AL1	0.37073561	3.18E-18	1.23E-16	515	515
ZWINT	0.37046949	3.37E-18	1.30E-16	515	515
NEIL3	0.37034989	3.46E-18	1.32E-16	515	515
ATP2A2	0.37034556	3.46E-18	1.32E-16	515	515
FANCI	0.37014381	3.62E-18	1.37E-16	515	515
SNRPA1	0.37005832	3.69E-18	1.40E-16	515	515
FKBP4	0.36994268	3.79E-18	1.43E-16	515	515
COPB2	0.3693109	4.36E-18	1.63E-16	515	515
UGDH	0.36880453	4.88E-18	1.81E-16	515	515
C2orf29	0.36874461	4.94E-18	1.83E-16	515	515
DNAJC10	0.36858704	5.12E-18	1.88E-16	515	515
SLC25A15	0.36858609	5.12E-18	1.88E-16	515	515
RSRC1	0.36769807	6.23E-18	2.23E-16	515	515
YES1	0.36681101	7.58E-18	2.67E-16	515	515
IWS1	0.36658101	7.97E-18	2.80E-16	515	515
HNRNPR	0.36651551	8.09E-18	2.84E-16	515	515
FAM72D	0.36619542	8.67E-18	3.03E-16	515	515
CIAO1	0.36606687	8.92E-18	3.10E-16	515	515
FLVCR1	0.36577565	9.51E-18	3.29E-16	515	515
LMAN1	0.36557834	9.93E-18	3.42E-16	515	515
POLR1A	0.36550692	1.01E-17	3.47E-16	515	515
HNRNPC	0.36528199	1.06E-17	3.63E-16	515	515
MAPK6	0.36512469	1.10E-17	3.75E-16	515	515
GMPS	0.36496654	1.14E-17	3.87E-16	515	515
CENPF	0.36475471	1.19E-17	4.01E-16	515	515
TSNAX	0.36460636	1.23E-17	4.12E-16	515	515
LYAR	0.36454265	1.25E-17	4.17E-16	515	515
PPM1B	0.36418696	1.35E-17	4.47E-16	515	515
TTK	0.36393839	1.42E-17	4.69E-16	515	515
CKS1B	0.36372604	1.49E-17	4.89E-16	515	515
CDK1	0.36345526	1.58E-17	5.17E-16	515	515
CD2AP	0.36322629	1.66E-17	5.43E-16	515	515
NUDCD1	0.36310969	1.70E-17	5.54E-16	515	515

KPNA4	0.36293023	1.77E-17	5.74E-16	515	515
C2orf43	0.36286616	1.79E-17	5.81E-16	515	515
NFXL1	0.36280148	1.82E-17	5.89E-16	515	515
MFSD9	0.36264635	1.88E-17	6.07E-16	515	515
MAP4K3	0.36258356	1.91E-17	6.14E-16	515	515
ANLN	0.36172211	2.30E-17	7.33E-16	515	515
HSPA4	0.36162738	2.35E-17	7.47E-16	515	515
HJURP	0.3613333	2.50E-17	7.90E-16	515	515
DSCC1	0.36127598	2.53E-17	7.98E-16	515	515
PCGF6	0.36091334	2.74E-17	8.56E-16	515	515
NME1	0.36084169	2.78E-17	8.68E-16	515	515
TMEM182	0.36081781	2.79E-17	8.71E-16	515	515
SNRPG	0.36076395	2.83E-17	8.80E-16	515	515
TRMT61B	0.36066153	2.89E-17	8.97E-16	515	515
ATF1	0.36001711	3.32E-17	1.02E-15	515	515
FOXM1	0.3599966	3.33E-17	1.03E-15	515	515
FAM18B	0.35929113	3.88E-17	1.19E-15	515	515
TPX2	0.35874966	4.36E-17	1.32E-15	515	515
LPGAT1	0.35856319	4.53E-17	1.38E-15	515	515
C1D	0.35841128	4.68E-17	1.41E-15	515	515
NHLRC2	0.35799488	5.12E-17	1.54E-15	515	515
PAPOLG	0.3577952	5.34E-17	1.60E-15	515	515
SNRPD1	0.35769545	5.46E-17	1.63E-15	515	515
ILF2	0.35760989	5.56E-17	1.65E-15	515	515
CLTC	0.35731294	5.92E-17	1.75E-15	515	515
IDE	0.35704696	6.26E-17	1.85E-15	515	515
TFG	0.35703044	6.29E-17	1.85E-15	515	515
MRPL45	0.35701333	6.31E-17	1.86E-15	515	515
PUS7L	0.35693569	6.41E-17	1.88E-15	515	515
MEST	0.35690745	6.45E-17	1.89E-15	515	515
PGM3	0.35690431	6.46E-17	1.89E-15	515	515
KIF4A	0.35689048	6.48E-17	1.89E-15	515	515
TRIP12	0.35685944	6.52E-17	1.90E-15	515	515
SASS6	0.35683326	6.56E-17	1.90E-15	515	515
HSPE1	0.35682717	6.56E-17	1.90E-15	515	515
CHML	0.35678984	6.62E-17	1.91E-15	515	515
RAD51	0.35677747	6.63E-17	1.92E-15	515	515
MASTL	0.35670601	6.74E-17	1.94E-15	515	515
FAM199X	0.35664829	6.82E-17	1.96E-15	515	515
C1QBP	0.35644981	7.11E-17	2.04E-15	515	515
ACLY	0.35644404	7.12E-17	2.04E-15	515	515
FAM60A	0.35606988	7.71E-17	2.20E-15	515	515
CCAR1	0.35604866	7.74E-17	2.21E-15	515	515
CCDC58	0.35596679	7.88E-17	2.24E-15	515	515

XPO5	0.35562416	8.47E-17	2.39E-15	515	515
HNRNPK	0.35562401	8.47E-17	2.39E-15	515	515
MCM4	0.35554681	8.61E-17	2.43E-15	515	515
CLPX	0.3554553	8.78E-17	2.47E-15	515	515
AGPS	0.35541972	8.85E-17	2.48E-15	515	515
C2orf69	0.35537377	8.93E-17	2.50E-15	515	515
PWP1	0.35534309	8.99E-17	2.52E-15	515	515
C1orf135	0.35500989	9.65E-17	2.69E-15	515	515
CTBP2	0.3547831	1.01E-16	2.81E-15	515	515
PRDX3	0.35453762	1.07E-16	2.95E-15	515	515
RAD51AP1	0.35453511	1.07E-16	2.95E-15	515	515
YWHAG	0.35445804	1.08E-16	2.99E-15	515	515
ARMC1	0.35434479	1.11E-16	3.06E-15	515	515
C1orf182	0.35427381	1.13E-16	3.09E-15	515	504
FBXO11	0.35427328	1.13E-16	3.09E-15	515	515
CHAC2	0.35413985	1.16E-16	3.16E-15	515	515
UBE2G1	0.35410469	1.17E-16	3.18E-15	515	515
GNL3	0.35404234	1.18E-16	3.22E-15	515	515
ALG10	0.35333525	1.37E-16	3.71E-15	515	515
WDR3	0.35322941	1.40E-16	3.79E-15	515	515
CSE1L	0.35301854	1.47E-16	3.96E-15	515	515
METTL2A	0.35297464	1.48E-16	3.99E-15	515	515
LOC22171	0.3528267	1.53E-16	4.09E-15	515	515
MBTPS2	0.35257571	1.61E-16	4.31E-15	515	515
DLD	0.35255171	1.62E-16	4.32E-15	515	515
SRBD1	0.35238353	1.68E-16	4.46E-15	515	515
POLR2D	0.35195033	1.83E-16	4.86E-15	515	515
TNPO1	0.35168153	1.94E-16	5.12E-15	515	515
RIF1	0.35163594	1.96E-16	5.16E-15	515	515
EIF4A3	0.35146962	2.03E-16	5.33E-15	515	515
ATAD2	0.35143166	2.04E-16	5.37E-15	515	515
FAM72B	0.35125146	2.12E-16	5.55E-15	515	515
CENPL	0.35099428	2.24E-16	5.84E-15	515	515
OTX1	0.35096005	2.25E-16	5.87E-15	515	515
CDCA2	0.35063437	2.41E-16	6.27E-15	515	515
BIRC5	0.35034169	2.56E-16	6.62E-15	515	515
SFXN4	0.35010692	2.69E-16	6.92E-15	515	515
FAM119A	0.35010155	2.69E-16	6.92E-15	515	515
C1orf55	0.35000503	2.75E-16	7.04E-15	515	515
BRAP	0.34970186	2.93E-16	7.44E-15	515	515
DTL	0.34956591	3.01E-16	7.65E-15	515	515
RPL7L1	0.34949206	3.06E-16	7.74E-15	515	515
HNRNPU	0.34919618	3.25E-16	8.17E-15	515	515
COX15	0.34891747	3.44E-16	8.62E-15	515	515

GABPB1	0.34854035	3.72E-16	9.24E-15	515	515
TIMM17A	0.34840546	3.83E-16	9.47E-15	515	515
GPN3	0.34835899	3.86E-16	9.55E-15	515	515
MMADHC	0.34798195	4.18E-16	1.03E-14	515	515
UCK2	0.34792324	4.23E-16	1.04E-14	515	515
TFB2M	0.34695841	5.15E-16	1.25E-14	515	515
RPP40	0.34689736	5.22E-16	1.27E-14	515	515
PRR11	0.3466804	5.46E-16	1.32E-14	515	513
PLK4	0.34560006	6.81E-16	1.63E-14	515	515
UBXN4	0.34553176	6.90E-16	1.66E-14	515	515
CHD1L	0.3453704	7.13E-16	1.70E-14	515	515
ACTR3	0.34536034	7.15E-16	1.70E-14	515	515
LYPLA1	0.34521208	7.37E-16	1.75E-14	515	515
YY1	0.34510954	7.52E-16	1.79E-14	515	515
GRSF1	0.34491552	7.82E-16	1.85E-14	515	515
NOP2	0.34484203	7.94E-16	1.87E-14	515	515
DCAF13	0.34483458	7.95E-16	1.87E-14	515	515
CENPI	0.34463441	8.29E-16	1.94E-14	515	515
CDC123	0.3443929	8.70E-16	2.03E-14	515	515
RBM12	0.34405153	9.33E-16	2.17E-14	515	515
BYSL	0.34345145	1.05E-15	2.43E-14	515	515
CDC25A	0.34322292	1.10E-15	2.53E-14	515	515
COPB1	0.34307912	1.14E-15	2.60E-14	515	515
SEC23IP	0.34304643	1.14E-15	2.61E-14	515	515
MKI67	0.34302555	1.15E-15	2.62E-14	515	515
NLN	0.34298802	1.16E-15	2.64E-14	515	515
CUL2	0.34295597	1.16E-15	2.65E-14	515	515
NUDT15	0.34217643	1.36E-15	3.07E-14	515	515
DLGAP5	0.3420354	1.40E-15	3.15E-14	515	515
PA2G4P4	0.34199023	1.42E-15	3.17E-14	515	515
SMNDC1	0.34156979	1.54E-15	3.42E-14	515	515
DHX9	0.34153559	1.55E-15	3.44E-14	515	515
YTHDF3	0.34141579	1.59E-15	3.52E-14	515	515
C1orf31	0.34127226	1.64E-15	3.61E-14	515	515
DPY30	0.34110835	1.69E-15	3.71E-14	515	515
NDUFS2	0.34104486	1.71E-15	3.75E-14	515	515
EEF1E1	0.34103747	1.71E-15	3.75E-14	515	515
CPS1	0.3409174	1.76E-15	3.84E-14	515	514
RAB3GAP2	0.34087012	1.77E-15	3.87E-14	515	515
YIPF6	0.34054354	1.89E-15	4.12E-14	515	515
CCT5	0.3402673	2.00E-15	4.34E-14	515	515
ANP32E	0.34020495	2.03E-15	4.39E-14	515	515
HADHB	0.34013063	2.06E-15	4.45E-14	515	515
TBCE	0.33991473	2.15E-15	4.64E-14	515	515

NUP35	0.33978722	2.20E-15	4.74E-14	515	515
DKC1	0.33978697	2.20E-15	4.74E-14	515	515
HELLS	0.33947893	2.34E-15	5.03E-14	515	515
FH	0.33936661	2.40E-15	5.13E-14	515	515
MRPS9	0.33935423	2.40E-15	5.14E-14	515	515
VPS26A	0.33924895	2.45E-15	5.24E-14	515	515
TMEM48	0.33900742	2.57E-15	5.47E-14	515	515
MRPS10	0.33891317	2.62E-15	5.56E-14	515	515
CAPRIN1	0.33889233	2.63E-15	5.57E-14	515	515
SLMO2	0.3388813	2.64E-15	5.58E-14	515	515
COX7A2L	0.33888124	2.64E-15	5.58E-14	515	515
SEH1L	0.33873137	2.72E-15	5.73E-14	515	515
DNA2	0.33809018	3.09E-15	6.48E-14	515	515
EIF2S3	0.3379605	3.17E-15	6.63E-14	515	515
SLC25A3	0.33793201	3.19E-15	6.66E-14	515	515
HSP90B1	0.33754653	3.44E-15	7.16E-14	515	515
INTS2	0.33698215	3.85E-15	7.94E-14	515	515
GOLT1B	0.33696483	3.86E-15	7.95E-14	515	515
PRKDC	0.33657705	4.17E-15	8.54E-14	515	515
TXNRD1	0.33655003	4.19E-15	8.58E-14	515	515
BZW2	0.33651899	4.22E-15	8.63E-14	515	515
PYCR1	0.33651037	4.22E-15	8.63E-14	515	515
SPC25	0.33647703	4.25E-15	8.68E-14	515	515
SFRS9	0.33625426	4.44E-15	9.04E-14	515	515
CKAP2	0.33614788	4.54E-15	9.22E-14	515	515
DNMT3A	0.33612632	4.56E-15	9.25E-14	515	515
MARS2	0.33599908	4.67E-15	9.45E-14	515	515
FOXN2	0.33599815	4.67E-15	9.45E-14	515	515
ERLIN1	0.33595019	4.72E-15	9.52E-14	515	515
CENPE	0.33592757	4.74E-15	9.55E-14	515	515
PDE12	0.33584571	4.82E-15	9.67E-14	515	515
TCEA1	0.33555709	5.10E-15	1.02E-13	515	515
GPD2	0.33539642	5.26E-15	1.04E-13	515	515
ATP5G3	0.33529489	5.37E-15	1.06E-13	515	515
GEMIN6	0.33517142	5.50E-15	1.09E-13	515	515
RTKN	0.33516457	5.51E-15	1.09E-13	515	515
KIAA1524	0.33511217	5.56E-15	1.10E-13	515	515
NCAPD2	0.3346668	6.07E-15	1.18E-13	515	515
TUBA1C	0.33444932	6.34E-15	1.23E-13	515	515
MAPKAPK	0.3341484	6.72E-15	1.30E-13	515	515
CS	0.33401952	6.89E-15	1.33E-13	515	515
DDX47	0.33384984	7.13E-15	1.37E-13	515	515
PREB	0.33383777	7.14E-15	1.38E-13	515	515
C21orf45	0.33382359	7.16E-15	1.38E-13	515	515

INTS8	0.33362223	7.45E-15	1.43E-13	515	515
ACBD3	0.3336102	7.47E-15	1.43E-13	515	515
PCBP2	0.33350017	7.63E-15	1.46E-13	515	515
DHX15	0.33334245	7.87E-15	1.50E-13	515	515
ACSL3	0.33331438	7.91E-15	1.51E-13	515	515
C15orf42	0.33314183	8.18E-15	1.56E-13	515	515
SHCBP1	0.33264894	9.01E-15	1.70E-13	515	515
KRT18	0.33262505	9.05E-15	1.71E-13	515	515
SET	0.33256197	9.16E-15	1.73E-13	515	515
RAD21	0.33255952	9.17E-15	1.73E-13	515	515
HNRNPA3	0.33238902	9.48E-15	1.78E-13	515	515
GAN	0.33229323	9.65E-15	1.81E-13	515	515
CASC5	0.33210018	1.00E-14	1.86E-13	515	515
SCO1	0.33202267	1.02E-14	1.89E-13	515	515
C12orf29	0.33182089	1.06E-14	1.96E-13	515	515
MINA	0.33176243	1.07E-14	1.98E-13	515	515
SNRPE	0.3316318	1.10E-14	2.03E-13	515	515
NUDT5	0.33159246	1.11E-14	2.04E-13	515	515
GCLM	0.33146437	1.13E-14	2.08E-13	515	515
SLC7A5	0.33136535	1.16E-14	2.12E-13	515	515
MELK	0.33098515	1.24E-14	2.27E-13	515	515
TSN	0.33081803	1.29E-14	2.33E-13	515	515
SLC35F5	0.33075128	1.30E-14	2.36E-13	515	515
BCCIP	0.33073818	1.31E-14	2.36E-13	515	515
XRCC2	0.33066029	1.33E-14	2.39E-13	515	515
CCT2	0.33049659	1.37E-14	2.47E-13	515	515
RAD18	0.33048142	1.37E-14	2.47E-13	515	515
PDSS1	0.33004603	1.49E-14	2.68E-13	515	515
HNRNPF	0.32945827	1.67E-14	2.97E-13	515	515
C12orf66	0.32944895	1.67E-14	2.98E-13	515	515
C1orf163	0.32934589	1.71E-14	3.03E-13	515	515
CCNJ	0.32931081	1.72E-14	3.05E-13	515	515
EIF2S2	0.32929905	1.72E-14	3.05E-13	515	515
RACGAP1	0.3290446	1.81E-14	3.19E-13	515	478
LOC28444	0.32886921	1.87E-14	3.29E-13	515	515
UBE2N	0.32882254	1.89E-14	3.32E-13	515	515
MOBK13	0.32876537	1.91E-14	3.34E-13	515	515
SENP1	0.32849679	2.01E-14	3.50E-13	515	515
HMMR	0.32836711	2.06E-14	3.58E-13	515	515
TARS	0.32798695	2.22E-14	3.84E-13	515	515
LIG3	0.32775463	2.32E-14	4.00E-13	515	515
SFRS1	0.32754455	2.41E-14	4.15E-13	515	515
CENPN	0.3275443	2.41E-14	4.15E-13	515	515
SBNO1	0.32721028	2.57E-14	4.42E-13	515	515

MTCH2	0.32708136	2.64E-14	4.52E-13	515	515
PAPOLA	0.32706829	2.64E-14	4.52E-13	515	515
COPA	0.32706791	2.64E-14	4.52E-13	515	515
SDHC	0.32700946	2.67E-14	4.57E-13	515	515
NOC3L	0.32698569	2.68E-14	4.58E-13	515	515
INSL4	0.32644893	2.97E-14	5.05E-13	515	239
EIF3A	0.32634064	3.04E-14	5.15E-13	515	515
GORASP2	0.32607579	3.19E-14	5.41E-13	515	515
MRPL44	0.32563904	3.47E-14	5.83E-13	515	515
TOMM20	0.32520038	3.77E-14	6.31E-13	515	515
ECE2	0.32507522	3.86E-14	6.45E-13	515	515
CDCA3	0.32500534	3.91E-14	6.52E-13	515	515
VPS33A	0.32492929	3.97E-14	6.59E-13	515	515
NOL7	0.32485827	4.02E-14	6.68E-13	515	515
HSPA9	0.3247855	4.08E-14	6.76E-13	515	515
7-Mar	0.32473711	4.11E-14	6.80E-13	515	515
PAK1IP1	0.32453394	4.28E-14	7.05E-13	515	515
CEP76	0.32439121	4.39E-14	7.24E-13	515	515
PHKA1	0.32437363	4.41E-14	7.26E-13	515	515
TIMM8A	0.32432662	4.45E-14	7.32E-13	515	515
EIF4A1	0.32426988	4.49E-14	7.39E-13	515	515
RUVBL1	0.32416712	4.58E-14	7.50E-13	515	515
MCM6	0.323843	4.87E-14	7.93E-13	515	515
KIF2C	0.32383936	4.87E-14	7.93E-13	515	515
CKAP4	0.32382595	4.89E-14	7.95E-13	515	515
PFN2	0.32370524	5.00E-14	8.12E-13	515	515
TIMELESS	0.32366817	5.03E-14	8.17E-13	515	515
ESF1	0.32366365	5.04E-14	8.17E-13	515	515
KPNA1	0.3236066	5.09E-14	8.25E-13	515	515
LDHB	0.3235961	5.10E-14	8.25E-13	515	515
AURKB	0.32354822	5.15E-14	8.32E-13	515	515
PCYOX1	0.32351406	5.18E-14	8.37E-13	515	515
PTGES3	0.32347702	5.22E-14	8.42E-13	515	515
C12orf23	0.32346607	5.23E-14	8.43E-13	515	515
DBF4	0.3232801	5.42E-14	8.71E-13	515	515
UBA2	0.3231307	5.57E-14	8.94E-13	515	515
ZC3H8	0.32305982	5.65E-14	9.05E-13	515	515
B4GALT1	0.32300758	5.70E-14	9.13E-13	515	515
FAM83A	0.32274588	5.99E-14	9.56E-13	515	515
DAP3	0.32264353	6.10E-14	9.74E-13	515	515
C1orf112	0.32243176	6.35E-14	1.01E-12	515	515
MRPS16	0.32227159	6.55E-14	1.04E-12	515	515
C6orf176	0.32193197	6.98E-14	1.10E-12	515	359
FAM91A1	0.32175928	7.21E-14	1.13E-12	515	515

CDCA5	0.32166892	7.33E-14	1.15E-12	515	515
RBM45	0.32163635	7.37E-14	1.16E-12	515	515
PIGF	0.3213167	7.83E-14	1.22E-12	515	515
HNRPLL	0.32104452	8.24E-14	1.28E-12	515	515
WDHD1	0.32093409	8.41E-14	1.30E-12	515	515
ANKRD57	0.32049485	9.12E-14	1.41E-12	515	515
HMGA1	0.32032934	9.41E-14	1.45E-12	515	515
POC1B	0.32027156	9.51E-14	1.46E-12	515	515
AIMP2	0.32000617	9.99E-14	1.53E-12	515	515
EPR1	0.31989686	1.02E-13	1.56E-12	515	513
FBXO45	0.31984486	1.03E-13	1.57E-12	515	515
DNTTIP2	0.31982773	1.03E-13	1.57E-12	515	515
FAM45B	0.3196608	1.07E-13	1.62E-12	515	515
SCYL2	0.319358	1.13E-13	1.70E-12	515	515
KIF20A	0.31921833	1.16E-13	1.75E-12	515	515
PTP4A1	0.31919548	1.16E-13	1.75E-12	515	515
HEATR2	0.31916694	1.17E-13	1.76E-12	515	515
C4orf43	0.31916649	1.17E-13	1.76E-12	515	515
ATAD1	0.31914845	1.17E-13	1.76E-12	515	515
NFU1	0.31888267	1.23E-13	1.85E-12	515	515
CKAP5	0.31855604	1.31E-13	1.96E-12	515	515
KIF15	0.31850597	1.32E-13	1.97E-12	515	515
TOP1	0.3184144	1.34E-13	2.00E-12	515	515
CSNK2A1	0.31830095	1.37E-13	2.04E-12	515	515
RAB2A	0.31802063	1.44E-13	2.15E-12	515	515
DHX36	0.3179197	1.47E-13	2.18E-12	515	515
PIPSL	0.31790284	1.48E-13	2.18E-12	515	515
GINS1	0.31786992	1.48E-13	2.20E-12	515	515
NDC80	0.31786557	1.49E-13	2.20E-12	515	515
UTP20	0.31780572	1.50E-13	2.22E-12	515	515
PCCB	0.31779915	1.50E-13	2.22E-12	515	515
EIF5A	0.31776904	1.51E-13	2.23E-12	515	515
SNRPF	0.3175511	1.57E-13	2.31E-12	515	515
TAF1A	0.31753655	1.58E-13	2.32E-12	515	515
CDK12	0.31728541	1.65E-13	2.42E-12	515	515
SMC3	0.31723603	1.67E-13	2.44E-12	515	515
MTDH	0.31719315	1.68E-13	2.46E-12	515	515
PPP4R2	0.31706362	1.72E-13	2.52E-12	515	515
PFDN4	0.31681279	1.80E-13	2.63E-12	515	515
PARG	0.31678815	1.81E-13	2.64E-12	515	515
PSMB5	0.31669976	1.84E-13	2.68E-12	515	515
GINS4	0.31668583	1.85E-13	2.68E-12	515	515
ADAM17	0.31654657	1.89E-13	2.75E-12	515	515
CHORDC1	0.31648962	1.91E-13	2.78E-12	515	515

GSTCD	0.31600248	2.09E-13	3.03E-12	515	515
NRAS	0.31591954	2.12E-13	3.07E-12	515	515
ROCK2	0.31581974	2.16E-13	3.12E-12	515	515
RDH14	0.31576685	2.18E-13	3.15E-12	515	515
FBXO28	0.31573765	2.20E-13	3.16E-12	515	515
CHEK1	0.31567811	2.22E-13	3.19E-12	515	515
SMC2	0.31542265	2.33E-13	3.33E-12	515	515
CDC20	0.31535768	2.35E-13	3.37E-12	515	515
SLC16A14	0.31533174	2.36E-13	3.37E-12	515	515
CCDC59	0.31529933	2.38E-13	3.39E-12	515	515
NAT8L	0.31523496	2.41E-13	3.43E-12	515	507
CBX3	0.31503272	2.50E-13	3.56E-12	515	515
GARS	0.3150082	2.51E-13	3.57E-12	515	515
HSP90AB1	0.314898	2.56E-13	3.63E-12	515	515
KIF4B	0.31482205	2.60E-13	3.67E-12	515	512
LOC10013	0.3146353	2.69E-13	3.80E-12	515	502
RPAP2	0.31460168	2.70E-13	3.82E-12	515	515
PPP2R1B	0.31455349	2.73E-13	3.85E-12	515	515
ESPL1	0.31448164	2.76E-13	3.89E-12	515	515
RFC5	0.31429773	2.86E-13	4.01E-12	515	515
LDHA	0.31415207	2.93E-13	4.11E-12	515	515
GHITM	0.31398975	3.02E-13	4.22E-12	515	515
CDC25C	0.31398318	3.02E-13	4.22E-12	515	515
TAF2	0.31378676	3.13E-13	4.37E-12	515	515
TPM3	0.31377274	3.14E-13	4.38E-12	515	515
RPS6KB1	0.31353415	3.28E-13	4.55E-12	515	515
IMPAD1	0.31346513	3.32E-13	4.60E-12	515	515
FBXO21	0.31334622	3.39E-13	4.70E-12	515	515
PLK1	0.31322625	3.47E-13	4.79E-12	515	515
TRIP13	0.31312583	3.53E-13	4.87E-12	515	515
PPP1R15B	0.31287367	3.70E-13	5.08E-12	515	515
PDCD11	0.31280811	3.74E-13	5.13E-12	515	515
DNAH14	0.31251771	3.94E-13	5.38E-12	515	515
ATL2	0.31182965	4.47E-13	6.04E-12	515	515
KHDRBS1	0.31182736	4.47E-13	6.04E-12	515	515
BRIX1	0.31131936	4.89E-13	6.58E-12	515	515
AGMAT	0.31066766	5.50E-13	7.34E-12	515	515
RNF2	0.31065243	5.52E-13	7.36E-12	515	515
UBE2D1	0.31035506	5.82E-13	7.75E-12	515	515
MPHOSPH	0.30985739	6.36E-13	8.40E-12	515	515
DCAF17	0.30981416	6.41E-13	8.45E-12	515	515
FAM64A	0.30970135	6.54E-13	8.61E-12	515	515
MRPS30	0.30964569	6.61E-13	8.69E-12	515	515
CPSF2	0.30957209	6.70E-13	8.80E-12	515	515

NIPSNAP1	0.30955521	6.72E-13	8.82E-12	515	515
RBM28	0.30950148	6.78E-13	8.89E-12	515	515
RAD54B	0.30906173	7.34E-13	9.57E-12	515	515
ARIH1	0.30878592	7.71E-13	1.00E-11	515	515
FANCB	0.30876812	7.73E-13	1.01E-11	515	515
POLQ	0.30857386	8.00E-13	1.04E-11	515	515
SYAP1	0.30836684	8.30E-13	1.08E-11	515	515
SLBP	0.30828343	8.43E-13	1.09E-11	515	515
EIF4E	0.30824173	8.49E-13	1.10E-11	515	515
C10orf119	0.30822607	8.51E-13	1.10E-11	515	515
COIL	0.3081683	8.60E-13	1.11E-11	515	515
ZRANB3	0.30808438	8.73E-13	1.12E-11	515	515
CCDC91	0.30801503	8.84E-13	1.14E-11	515	515
NIF3L1	0.30780804	9.17E-13	1.17E-11	515	515
GGH	0.30776414	9.24E-13	1.18E-11	515	515
LBR	0.30756543	9.57E-13	1.22E-11	515	515
DCUN1D5	0.30697472	1.06E-12	1.35E-11	515	515
COPS2	0.30690341	1.08E-12	1.36E-11	515	515
RBM34	0.30680333	1.10E-12	1.38E-11	515	515
ERO1L	0.306516	1.15E-12	1.45E-11	515	515
GLRX3	0.30650146	1.16E-12	1.45E-11	515	515
KIAA1033	0.30643145	1.17E-12	1.47E-11	515	515
CLPB	0.30633145	1.19E-12	1.49E-11	515	515
CMAS	0.3062936	1.20E-12	1.50E-11	515	515
MAPRE1	0.30625818	1.21E-12	1.51E-11	515	515
ZNF146	0.30610558	1.24E-12	1.55E-11	515	515
FAM83D	0.30578059	1.31E-12	1.63E-11	515	515
RAB18	0.30571189	1.33E-12	1.65E-11	515	515
NMD3	0.305536	1.37E-12	1.70E-11	515	515
CSNK2A1P	0.30548093	1.38E-12	1.71E-11	515	515
NUP133	0.3053908	1.41E-12	1.74E-11	515	515
GALNT4	0.30527475	1.43E-12	1.77E-11	515	515
NCAPG2	0.30527384	1.43E-12	1.77E-11	515	515
HADHA	0.30515082	1.47E-12	1.81E-11	515	515
GTF2H3	0.3051039	1.48E-12	1.82E-11	515	515
ANAPC7	0.30508694	1.48E-12	1.82E-11	515	515
ZFR	0.30501288	1.50E-12	1.85E-11	515	515
HDAC2	0.30472092	1.58E-12	1.94E-11	515	515
FUBP1	0.3046803	1.59E-12	1.95E-11	515	515
CDKN3	0.30453334	1.63E-12	1.99E-11	515	515
PABPC3	0.30439791	1.67E-12	2.03E-11	515	515
MFSD2B	0.30428537	1.71E-12	2.07E-11	515	515
LOC72902	0.30422456	1.72E-12	2.09E-11	515	515
ZNF143	0.3041947	1.73E-12	2.10E-11	515	515

USP32	0.30419254	1.73E-12	2.10E-11	515	515
ENOPH1	0.30401828	1.79E-12	2.16E-11	515	515
NUP205	0.30372079	1.88E-12	2.26E-11	515	515
WDR92	0.30363968	1.91E-12	2.29E-11	515	515
ERLEC1	0.30355911	1.94E-12	2.32E-11	515	515
NIP7	0.303407	1.99E-12	2.37E-11	515	515
FUBP3	0.30329475	2.03E-12	2.42E-11	515	515
C2orf18	0.30311489	2.09E-12	2.49E-11	515	515
CYP24A1	0.30310765	2.10E-12	2.49E-11	515	513
CDCA8	0.30278301	2.22E-12	2.62E-11	515	515
RPS6KC1	0.30271256	2.25E-12	2.65E-11	515	515
ZNF281	0.30182094	2.62E-12	3.06E-11	515	515
TIPRL	0.30178749	2.64E-12	3.08E-11	515	515
SUDS3	0.30177145	2.65E-12	3.08E-11	515	515
GRPEL1	0.30170932	2.67E-12	3.11E-11	515	515
GSG2	0.30166029	2.70E-12	3.14E-11	515	515
PPTC7	0.30145643	2.79E-12	3.24E-11	515	515
METTL5	0.30129604	2.87E-12	3.33E-11	515	515
TPI1	0.30058819	3.25E-12	3.74E-11	515	515
GOT2	0.30042029	3.34E-12	3.85E-11	515	515
GART	0.30032387	3.40E-12	3.91E-11	515	515
CAMSAP1	0.30010706	3.53E-12	4.05E-11	515	515
MCM8	0.2999922	3.60E-12	4.13E-11	515	515
PPIF	0.29992962	3.64E-12	4.17E-11	515	515
PDS5A	0.29944015	3.96E-12	4.50E-11	515	515
RRP1B	0.29942601	3.97E-12	4.51E-11	515	515
NUP153	0.29916047	4.15E-12	4.71E-11	515	515
MIB1	0.29908567	4.21E-12	4.76E-11	515	515
SUMO1P3	0.29897751	4.28E-12	4.85E-11	515	515
RPRD1A	0.29896599	4.29E-12	4.85E-11	515	515
NUP155	0.29894983	4.30E-12	4.86E-11	515	515
SRPK2	0.29894103	4.31E-12	4.86E-11	515	515
PARD3	0.29889588	4.34E-12	4.90E-11	515	515
RRM1	0.29887279	4.36E-12	4.91E-11	515	515
GPATCH4	0.29874009	4.46E-12	5.01E-11	515	515
STRN	0.29873315	4.47E-12	5.02E-11	515	515
LOC44117	0.29859994	4.57E-12	5.12E-11	515	177
FIP1L1	0.29851518	4.64E-12	5.18E-11	515	515
ARL1	0.29848811	4.66E-12	5.21E-11	515	515
SMARCC1	0.29839036	4.74E-12	5.29E-11	515	515
METAP2	0.2982906	4.82E-12	5.37E-11	515	515
SERBP1	0.29824011	4.86E-12	5.41E-11	515	515
NAMPT	0.2982165	4.88E-12	5.43E-11	515	515
COPZ1	0.29811431	4.97E-12	5.52E-11	515	515

NEK4	0.29802969	5.04E-12	5.59E-11	515	515
UBQLN1	0.29796346	5.10E-12	5.64E-11	515	515
TEX10	0.29758271	5.44E-12	6.00E-11	515	515
DCAF10	0.29746951	5.55E-12	6.11E-11	515	515
AAGAB	0.29727882	5.73E-12	6.30E-11	515	515
ABCB10	0.29712749	5.88E-12	6.45E-11	515	515
PRDX6	0.29689108	6.12E-12	6.70E-11	515	515
IGF2BP1	0.29684474	6.17E-12	6.75E-11	515	450
UBQLN4	0.29668791	6.34E-12	6.91E-11	515	515
C3orf26	0.29667009	6.36E-12	6.92E-11	515	515
UHRF1	0.29646808	6.58E-12	7.14E-11	515	515
CUL3	0.296355	6.70E-12	7.28E-11	515	515
SLK	0.29629892	6.77E-12	7.34E-11	515	515
KIFC1	0.29601881	7.10E-12	7.68E-11	515	515
LOC64933	0.29580578	7.36E-12	7.95E-11	515	515
TRIM37	0.29572932	7.46E-12	8.04E-11	515	515
CWC22	0.29560866	7.61E-12	8.19E-11	515	515
RBBP5	0.29556787	7.66E-12	8.24E-11	515	515
FXR1	0.29552563	7.72E-12	8.29E-11	515	515
E2F8	0.29549514	7.76E-12	8.33E-11	515	515
KIAA1804	0.29521294	8.14E-12	8.71E-11	515	515
POLR2B	0.29496065	8.49E-12	9.06E-11	515	515
ZNF639	0.29427285	9.54E-12	1.01E-10	515	515
RBM27	0.29413402	9.76E-12	1.03E-10	515	515
TTF2	0.29392532	1.01E-11	1.07E-10	515	515
CCRN4L	0.29390732	1.01E-11	1.07E-10	515	515
TAF5	0.2938821	1.02E-11	1.07E-10	515	515
MTMR2	0.29388071	1.02E-11	1.07E-10	515	515
PFDN2	0.29387545	1.02E-11	1.07E-10	515	515
PSAT1	0.29379834	1.03E-11	1.09E-10	515	515
C20orf24	0.29372795	1.05E-11	1.10E-10	515	515
CCT8	0.2936719	1.06E-11	1.11E-10	515	515
UTP18	0.2935923	1.07E-11	1.12E-10	515	515
USP10	0.29354464	1.08E-11	1.13E-10	515	515
ACBD5	0.29352632	1.08E-11	1.13E-10	515	515
SRXN1	0.29350975	1.08E-11	1.13E-10	515	515
ACTL6A	0.29338638	1.11E-11	1.15E-10	515	515
SHMT2	0.29335511	1.11E-11	1.16E-10	515	515
RFWD3	0.29330934	1.12E-11	1.17E-10	515	515
TM9SF3	0.2932874	1.13E-11	1.17E-10	515	515
WDR67	0.29326382	1.13E-11	1.17E-10	515	515
HDLBP	0.29318424	1.15E-11	1.19E-10	515	515
STAM	0.29313101	1.16E-11	1.20E-10	515	515
ORC6L	0.29301673	1.18E-11	1.22E-10	515	515

CCT6A	0.29295858	1.19E-11	1.23E-10	515	515
YWHAE	0.29290746	1.20E-11	1.24E-10	515	515
SLC25A32	0.29288731	1.20E-11	1.24E-10	515	515
TAF1B	0.29283532	1.21E-11	1.25E-10	515	515
FLAD1	0.2928299	1.22E-11	1.25E-10	515	515
AASDHPPT	0.29275938	1.23E-11	1.27E-10	515	515
RMND5A	0.29275115	1.23E-11	1.27E-10	515	515
AQR	0.2926381	1.26E-11	1.29E-10	515	515
CAND1	0.29263097	1.26E-11	1.29E-10	515	515
TRIB3	0.29262153	1.26E-11	1.29E-10	515	515
ARPP19	0.29211284	1.37E-11	1.40E-10	515	515
CAD	0.29180624	1.44E-11	1.47E-10	515	515
CLSPN	0.29176941	1.45E-11	1.48E-10	515	515
MRPL9	0.29172122	1.46E-11	1.49E-10	515	515
IPO8	0.29170101	1.47E-11	1.49E-10	515	515
LLPH	0.29161458	1.49E-11	1.51E-10	515	515
C8orf76	0.29151724	1.51E-11	1.53E-10	515	515
GAPDH	0.29150192	1.52E-11	1.54E-10	515	515
ATE1	0.29149968	1.52E-11	1.54E-10	515	515
MPP6	0.29144369	1.53E-11	1.55E-10	515	515
C1orf58	0.29119851	1.60E-11	1.61E-10	515	515
NUFIP1	0.29102369	1.64E-11	1.65E-10	515	515
TK1	0.29088916	1.68E-11	1.69E-10	515	515
C14orf126	0.29066119	1.75E-11	1.75E-10	515	515
SNRNP200	0.29065997	1.75E-11	1.75E-10	515	515
DEPDC1B	0.29065659	1.75E-11	1.75E-10	515	515
CDK8	0.29058515	1.77E-11	1.77E-10	515	515
TRMT6	0.29052867	1.78E-11	1.78E-10	515	515
PRKRA	0.29042923	1.81E-11	1.81E-10	515	515
CCDC34	0.29010642	1.91E-11	1.90E-10	515	515
FAM54A	0.2900764	1.92E-11	1.91E-10	515	515
AVEN	0.28977265	2.02E-11	2.00E-10	515	515
FAM98B	0.28952966	2.11E-11	2.08E-10	515	515
WAC	0.28950896	2.11E-11	2.08E-10	515	515
ATPBD4	0.28949488	2.12E-11	2.09E-10	515	515
PPIG	0.28943771	2.14E-11	2.11E-10	515	515
ISG20L2	0.28935248	2.17E-11	2.13E-10	515	515
ATP6V1E2	0.28928793	2.19E-11	2.15E-10	515	515
LOC72908	0.2892522	2.20E-11	2.16E-10	515	515
C10orf12	0.2891625	2.24E-11	2.19E-10	515	515
MND1	0.28910949	2.26E-11	2.21E-10	515	515
C9orf140	0.28910321	2.26E-11	2.21E-10	515	515
METAP1	0.2890959	2.26E-11	2.21E-10	515	515
SNF8	0.28896502	2.31E-11	2.26E-10	515	515

EFTUD2	0.28887296	2.35E-11	2.29E-10	515	515
C10orf46	0.28880135	2.37E-11	2.31E-10	515	515
BRCA1	0.28864716	2.44E-11	2.37E-10	515	515
RCN2	0.28861056	2.45E-11	2.38E-10	515	515
ECD	0.28828322	2.59E-11	2.50E-10	515	515
TIPIN	0.28826216	2.60E-11	2.51E-10	515	515
CHCHD3	0.28816613	2.64E-11	2.55E-10	515	515
GPATCH2	0.28811645	2.66E-11	2.57E-10	515	515
NRBP1	0.28807528	2.68E-11	2.58E-10	515	515
FBXO22	0.28795177	2.73E-11	2.63E-10	515	515
PDIA3P	0.28792037	2.75E-11	2.64E-10	515	515
MRPL47	0.28786371	2.77E-11	2.66E-10	515	515
C10orf18	0.28771859	2.84E-11	2.72E-10	515	515
ITGB1	0.28759689	2.90E-11	2.77E-10	515	515
PITX2	0.28751491	2.93E-11	2.80E-10	515	481
SSX2IP	0.2874001	2.99E-11	2.85E-10	515	515
DIAPH3	0.28737632	3.00E-11	2.86E-10	515	515
POP1	0.2872697	3.06E-11	2.90E-10	515	515
GMCL1L	0.28712677	3.13E-11	2.97E-10	515	510
E2F3	0.28709311	3.14E-11	2.98E-10	515	515
C16orf87	0.28704056	3.17E-11	3.01E-10	515	515
MAPK8	0.28701078	3.19E-11	3.02E-10	515	515
EIF2S1	0.2869222	3.23E-11	3.06E-10	515	515
C5orf22	0.28689831	3.25E-11	3.07E-10	515	515
FGA	0.28659543	3.41E-11	3.22E-10	515	510
LOC72789	0.28627428	3.60E-11	3.38E-10	515	515
DHTKD1	0.28604073	3.74E-11	3.51E-10	515	515
RPIA	0.28599431	3.76E-11	3.53E-10	515	515
EIF2AK1	0.28597252	3.78E-11	3.54E-10	515	515
ODC1	0.28543558	4.12E-11	3.84E-10	515	515
SFXN1	0.28529403	4.22E-11	3.92E-10	515	515
COG2	0.28528641	4.22E-11	3.92E-10	515	515
CDYL	0.28525342	4.25E-11	3.94E-10	515	515
DDX10	0.28518434	4.29E-11	3.98E-10	515	515
CENPH	0.28499783	4.43E-11	4.09E-10	515	515
EIF2C2	0.28483494	4.55E-11	4.20E-10	515	515
SMARCAL	0.28471288	4.64E-11	4.28E-10	515	515
LOC29034	0.28466295	4.67E-11	4.31E-10	515	91
SPATS2	0.2846019	4.72E-11	4.34E-10	515	515
HSP90AB2	0.28443685	4.85E-11	4.45E-10	515	515
STAU2	0.28437482	4.90E-11	4.50E-10	515	515
KIF18B	0.2842789	4.97E-11	4.56E-10	515	515
PTRH2	0.28423291	5.01E-11	4.60E-10	515	515
BRIP1	0.28403594	5.17E-11	4.73E-10	515	515

ROD1	0.28401223	5.19E-11	4.75E-10	515	515
RQCD1	0.28387346	5.31E-11	4.85E-10	515	515
NBAS	0.28357157	5.58E-11	5.08E-10	515	515
NME2	0.28350964	5.63E-11	5.13E-10	515	515
BRI3BP	0.28349581	5.65E-11	5.14E-10	515	515
POLDIP2	0.2834059	5.73E-11	5.20E-10	515	515
L2HGDH	0.28332355	5.81E-11	5.27E-10	515	515
C12orf73	0.28327877	5.85E-11	5.30E-10	515	515
PUM2	0.28303355	6.08E-11	5.50E-10	515	515
TROAP	0.28284245	6.27E-11	5.65E-10	515	515
PPIAL4C	0.28267921	6.44E-11	5.79E-10	515	515
KIAA1598	0.28262214	6.50E-11	5.84E-10	515	515
DNAJC9	0.28255429	6.57E-11	5.90E-10	515	515
AP1AR	0.28235442	6.79E-11	6.07E-10	515	515
MGC3403	0.28231526	6.83E-11	6.10E-10	515	58
HAUS6	0.28230667	6.84E-11	6.11E-10	515	515
ATP5C1	0.28228479	6.86E-11	6.12E-10	515	515
DSG2	0.28148797	7.80E-11	6.89E-10	515	515
LAMC1	0.28146776	7.82E-11	6.90E-10	515	515
C12orf45	0.28135306	7.97E-11	7.03E-10	515	515
PTER	0.28121809	8.14E-11	7.18E-10	515	515
XYLB	0.28119239	8.18E-11	7.20E-10	515	515
BUB3	0.28082054	8.68E-11	7.62E-10	515	515
UTP6	0.28073134	8.80E-11	7.72E-10	515	515
NPM3	0.28059751	8.99E-11	7.87E-10	515	515
DYNC1I2	0.28049111	9.15E-11	8.00E-10	515	515
METTL8	0.28045162	9.20E-11	8.04E-10	515	515
WBP11P1	0.28038614	9.30E-11	8.11E-10	515	515
2-Sep	0.28037308	9.32E-11	8.13E-10	515	515
SMC6	0.28036006	9.34E-11	8.14E-10	515	515
ESRP1	0.28034343	9.36E-11	8.15E-10	515	515
KIF21A	0.28027817	9.46E-11	8.23E-10	515	515
VAR5	0.28013519	9.68E-11	8.41E-10	515	515
TMEM106	0.28004965	9.81E-11	8.51E-10	515	515
NUP98	0.28002513	9.85E-11	8.53E-10	515	515
C13orf37	0.27997048	9.94E-11	8.60E-10	515	515
EXOC6B	0.27988574	1.01E-10	8.72E-10	515	515
DNAJC14	0.27983197	1.02E-10	8.78E-10	515	515
SLC39A6	0.27974226	1.03E-10	8.90E-10	515	515
MRPL13	0.27965099	1.05E-10	9.02E-10	515	515
FGB	0.2794328	1.08E-10	9.31E-10	515	449
SLC7A1	0.2790251	1.15E-10	9.90E-10	515	515
C10orf88	0.27901628	1.16E-10	9.91E-10	515	515
IPO4	0.27891925	1.17E-10	1.01E-09	515	515

RNF115	0.27886618	1.18E-10	1.01E-09	515	515
AHCY	0.27880133	1.20E-10	1.02E-09	515	515
STC1	0.2785212	1.25E-10	1.07E-09	515	515
LIN54	0.27837961	1.28E-10	1.09E-09	515	515
NAE1	0.27801656	1.35E-10	1.15E-09	515	515
IDH1	0.27795712	1.37E-10	1.16E-09	515	515
TAF13	0.27783776	1.39E-10	1.18E-09	515	515
MFF	0.27750731	1.47E-10	1.24E-09	515	515
GOLGA5	0.27742736	1.49E-10	1.25E-09	515	515
G2E3	0.27738678	1.50E-10	1.26E-09	515	515
DIP2B	0.27725777	1.53E-10	1.28E-09	515	515
OCRL	0.2772544	1.53E-10	1.28E-09	515	515
MAGOHB	0.27707165	1.57E-10	1.32E-09	515	515
CDC45	0.2769311	1.61E-10	1.35E-09	515	515
NME2P1	0.27684234	1.63E-10	1.36E-09	515	515
SLC35B1	0.27681601	1.64E-10	1.37E-09	515	515
MYBL2	0.27681146	1.64E-10	1.37E-09	515	515
FAM175B	0.27679544	1.64E-10	1.37E-09	515	515
ARHGAP1	0.27667331	1.67E-10	1.40E-09	515	513
SRP9	0.27655464	1.71E-10	1.42E-09	515	515
DCLRE1A	0.27648609	1.72E-10	1.43E-09	515	515
EIF2AK3	0.27628168	1.78E-10	1.48E-09	515	515
OPA1	0.2762293	1.80E-10	1.49E-09	515	515
USMG5	0.27596678	1.87E-10	1.55E-09	515	515
CKS2	0.27583352	1.91E-10	1.58E-09	515	515
LRP12	0.27557838	1.99E-10	1.64E-09	515	515
RRS1	0.27513976	2.13E-10	1.75E-09	515	515
NAA35	0.27490289	2.21E-10	1.81E-09	515	515
POC1A	0.27489799	2.21E-10	1.81E-09	515	515
PARP1	0.27489333	2.21E-10	1.81E-09	515	515
ZNF207	0.27476332	2.26E-10	1.84E-09	515	515
POLE2	0.27475131	2.26E-10	1.84E-09	515	515
FBXO22OS	0.2747188	2.27E-10	1.85E-09	515	515
LARP1B	0.27465491	2.30E-10	1.87E-09	515	515
DSP	0.2745847	2.32E-10	1.88E-09	515	515
C9orf41	0.27457785	2.32E-10	1.89E-09	515	515
SCD	0.27456147	2.33E-10	1.89E-09	515	515
PANK3	0.27436665	2.40E-10	1.94E-09	515	515
PRDM4	0.27433502	2.41E-10	1.95E-09	515	515
SUMO1	0.27427376	2.44E-10	1.97E-09	515	515
KIAA1429	0.27420661	2.46E-10	1.99E-09	515	515
SP3	0.27398062	2.55E-10	2.05E-09	515	515
NUDT3	0.27394391	2.56E-10	2.06E-09	515	515
KPNA3	0.27388582	2.59E-10	2.08E-09	515	515

BMS1	0.27387528	2.59E-10	2.08E-09	515	515
UEVLD	0.27383912	2.61E-10	2.09E-09	515	515
C2orf56	0.27371154	2.66E-10	2.13E-09	515	515
RARS	0.27364315	2.69E-10	2.15E-09	515	515
GMNN	0.27351509	2.74E-10	2.19E-09	515	515
CSTF2	0.27344382	2.77E-10	2.21E-09	515	515
TMEM135	0.27330015	2.83E-10	2.25E-09	515	515
LOC10013	0.27328641	2.84E-10	2.26E-09	515	515
FAM18B2	0.2732634	2.85E-10	2.26E-09	515	515
DCUN1D1	0.27324632	2.86E-10	2.27E-09	515	515
TUBGCP4	0.27315224	2.90E-10	2.30E-09	515	515
E2F5	0.27272484	3.10E-10	2.45E-09	515	515
TWISTNB	0.27263942	3.14E-10	2.48E-09	515	515
NBN	0.2725195	3.20E-10	2.52E-09	515	515
TDP2	0.27246936	3.22E-10	2.54E-09	515	515
SUPV3L1	0.27230054	3.31E-10	2.60E-09	515	515
ACTR6	0.27229054	3.31E-10	2.60E-09	515	515
SAMD8	0.27223328	3.34E-10	2.62E-09	515	515
TOPBP1	0.27223291	3.34E-10	2.62E-09	515	515
ORC5L	0.27202589	3.45E-10	2.71E-09	515	515
WBP11	0.27159243	3.69E-10	2.88E-09	515	515
HOMER1	0.27156214	3.71E-10	2.89E-09	515	515
PANK1	0.27147887	3.76E-10	2.93E-09	515	515
CNGB3	0.27133985	3.84E-10	2.98E-09	515	300
TOMM40	0.27119156	3.92E-10	3.05E-09	515	515
CHRNA5	0.27115315	3.95E-10	3.06E-09	515	515
FURIN	0.27098729	4.05E-10	3.14E-09	515	515
MRPS23	0.27097295	4.06E-10	3.14E-09	515	515
HSPA5	0.27046926	4.38E-10	3.38E-09	515	515
OPN3	0.27041298	4.42E-10	3.41E-09	515	515
RAB6A	0.27031027	4.49E-10	3.46E-09	515	515
PAIP1	0.27023255	4.55E-10	3.50E-09	515	515
THUMPD3	0.2701334	4.62E-10	3.55E-09	515	515
MARS	0.26997572	4.73E-10	3.63E-09	515	515
ITCH	0.2699262	4.76E-10	3.66E-09	515	515
UHMK1	0.26984786	4.82E-10	3.70E-09	515	515
C11orf82	0.26973399	4.91E-10	3.75E-09	515	515
TUBG1	0.26969328	4.94E-10	3.78E-09	515	515
NUP107	0.26934373	5.21E-10	3.96E-09	515	515
SLC25A13	0.26926965	5.27E-10	4.01E-09	515	515
FBXO30	0.26925803	5.28E-10	4.01E-09	515	515
MLF1IP	0.26922885	5.30E-10	4.03E-09	515	515
CPE	0.26918863	5.33E-10	4.05E-09	515	515
B3GALNT2	0.26913029	5.38E-10	4.08E-09	515	515

RG9MTD1	0.26892194	5.55E-10	4.20E-09	515	515
CBX1	0.26867962	5.76E-10	4.35E-09	515	515
CLNS1A	0.26859614	5.84E-10	4.40E-09	515	515
HSP90AA1	0.26849838	5.92E-10	4.46E-09	515	515
C1orf43	0.26825616	6.15E-10	4.62E-09	515	515
TMEM177	0.26820896	6.19E-10	4.65E-09	515	515
ZBTB10	0.26799176	6.40E-10	4.80E-09	515	515
MFN1	0.26792214	6.46E-10	4.84E-09	515	515
TROVE2	0.26779359	6.59E-10	4.93E-09	515	515
STIP1	0.26774325	6.64E-10	4.97E-09	515	515
OSGIN2	0.26674749	7.72E-10	5.73E-09	515	515
SPOPL	0.26665392	7.83E-10	5.81E-09	515	515
VPS37A	0.26665214	7.83E-10	5.81E-09	515	515
SUCLG1	0.26645075	8.08E-10	5.98E-09	515	515
GEN1	0.2663612	8.18E-10	6.05E-09	515	515
AEBP2	0.26632174	8.23E-10	6.09E-09	515	515
C14orf147	0.26619778	8.39E-10	6.20E-09	515	515
SPATA5	0.26607089	8.55E-10	6.31E-09	515	515
EGLN1	0.26605465	8.57E-10	6.33E-09	515	515
VDAC1	0.26599075	8.65E-10	6.38E-09	515	515
CHMP1B	0.26590838	8.76E-10	6.45E-09	515	515
TLCD1	0.26586402	8.82E-10	6.49E-09	515	515
RDX	0.26575351	8.97E-10	6.59E-09	515	515
PDIA3	0.26571643	9.02E-10	6.62E-09	515	515
NOP14	0.26556396	9.23E-10	6.76E-09	515	515
ATAD5	0.26551298	9.30E-10	6.81E-09	515	515
WAPAL	0.26514741	9.82E-10	7.18E-09	515	515
SLC30A1	0.26511424	9.87E-10	7.22E-09	515	515
ADAR	0.26506091	9.95E-10	7.27E-09	515	515
NSUN2	0.26484222	1.03E-09	7.50E-09	515	515
GOSR1	0.26468997	1.05E-09	7.66E-09	515	515
HSPA14	0.26440321	1.10E-09	7.98E-09	515	515
GTSE1	0.26438824	1.10E-09	7.99E-09	515	515
REEP3	0.26429779	1.12E-09	8.08E-09	515	515
MTBP	0.26422647	1.13E-09	8.17E-09	515	515
VRK1	0.26413985	1.14E-09	8.25E-09	515	515
NUS1	0.26401592	1.16E-09	8.40E-09	515	515
PSMA4	0.26394086	1.18E-09	8.48E-09	515	515
EYS	0.26387025	1.19E-09	8.57E-09	515	515
C12orf32	0.26386046	1.19E-09	8.58E-09	515	515
LTBR	0.26371794	1.22E-09	8.74E-09	515	515
LTV1	0.26369592	1.22E-09	8.77E-09	515	515
STRBP	0.26342611	1.27E-09	9.11E-09	515	515
SEC24A	0.26330747	1.29E-09	9.26E-09	515	515

SPATA5L1	0.26323174	1.31E-09	9.34E-09	515	515
PSMD7	0.26312891	1.33E-09	9.48E-09	515	515
PDIA4	0.26304105	1.35E-09	9.60E-09	515	515
USO1	0.26303653	1.35E-09	9.60E-09	515	515
ATP2B1	0.26302604	1.35E-09	9.61E-09	515	515
NSF	0.26293145	1.37E-09	9.75E-09	515	515
SLC39A10	0.26276516	1.40E-09	9.98E-09	515	515
TMEM206	0.26267535	1.42E-09	1.01E-08	515	515
NUP88	0.26253778	1.45E-09	1.03E-08	515	515
TOMM5	0.26237523	1.48E-09	1.05E-08	515	515
KCNMB4	0.26236985	1.49E-09	1.05E-08	515	515
SPTY2D1	0.26233944	1.49E-09	1.06E-08	515	515
FECH	0.26203977	1.56E-09	1.10E-08	515	515
TGS1	0.26198224	1.57E-09	1.11E-08	515	515
MED1	0.2619581	1.58E-09	1.11E-08	515	515
PIP5K1A	0.26194079	1.58E-09	1.11E-08	515	515
UMPS	0.26186724	1.60E-09	1.13E-08	515	515
METTL10	0.26165579	1.65E-09	1.16E-08	515	515
TADA1	0.26110506	1.79E-09	1.25E-08	515	515
CDT1	0.26085708	1.86E-09	1.30E-08	515	515
MTX2	0.26074652	1.89E-09	1.32E-08	515	515
MORF4L2	0.26060836	1.93E-09	1.34E-08	515	515
SAP130	0.26054544	1.95E-09	1.35E-08	515	515
SGK196	0.26050313	1.96E-09	1.36E-08	515	514
CALU	0.26049847	1.96E-09	1.36E-08	515	515
BAG2	0.26043415	1.98E-09	1.37E-08	515	515
TOR1AIP2	0.26015428	2.06E-09	1.43E-08	515	515
LEO1	0.25998298	2.11E-09	1.46E-08	515	515
TSEN15	0.25987487	2.15E-09	1.48E-08	515	515
CDC5L	0.2598388	2.16E-09	1.49E-08	515	515
VPS35	0.25964814	2.22E-09	1.53E-08	515	515
FEN1	0.25962806	2.23E-09	1.53E-08	515	515
OTUD6B	0.25939092	2.30E-09	1.58E-08	515	515
C9orf30	0.25936333	2.31E-09	1.59E-08	515	515
TMEM209	0.25911593	2.40E-09	1.64E-08	515	515
WDR76	0.25887433	2.48E-09	1.70E-08	515	515
OSTC	0.25883366	2.50E-09	1.71E-08	515	515
ARCN1	0.25878474	2.52E-09	1.72E-08	515	515
MRPL12	0.25868746	2.55E-09	1.74E-08	515	515
PAH	0.25868462	2.55E-09	1.74E-08	515	399
PAK2	0.25866925	2.56E-09	1.74E-08	515	515
POLR3A	0.25865249	2.57E-09	1.75E-08	515	515
SEC23A	0.25859856	2.59E-09	1.76E-08	515	515
ACTL8	0.2585911	2.59E-09	1.76E-08	515	261

NDUFA12	0.25847774	2.63E-09	1.78E-08	515	515
GNPAT	0.25806323	2.80E-09	1.89E-08	515	515
STIL	0.25793733	2.85E-09	1.92E-08	515	515
AP3M1	0.25782433	2.90E-09	1.95E-08	515	515
PKN2	0.25777648	2.92E-09	1.96E-08	515	515
GCN1L1	0.25764789	2.97E-09	1.99E-08	515	515
CENPW	0.25754404	3.02E-09	2.02E-08	515	515
HAT1	0.25746147	3.05E-09	2.04E-08	515	515
RBM8A	0.25745776	3.05E-09	2.04E-08	515	515
G3BP1	0.25745591	3.05E-09	2.04E-08	515	515
EME1	0.25731922	3.12E-09	2.08E-08	515	515
TERF1	0.25729208	3.13E-09	2.09E-08	515	515
GINS2	0.25708513	3.22E-09	2.15E-08	515	515
DHX33	0.25703316	3.25E-09	2.16E-08	515	515
C1orf107	0.25679471	3.36E-09	2.23E-08	515	515
UBE2E1	0.25671287	3.40E-09	2.25E-08	515	515
PHF16	0.25666989	3.42E-09	2.27E-08	515	515
H2AFZ	0.25657088	3.47E-09	2.30E-08	515	515
ATL3	0.25653927	3.49E-09	2.31E-08	515	515
VPS24	0.25626998	3.63E-09	2.39E-08	515	515
GAL	0.25589402	3.83E-09	2.52E-08	515	435
AATF	0.25588038	3.84E-09	2.52E-08	515	515
ATF6	0.25586448	3.85E-09	2.52E-08	515	515
GDI2	0.25579517	3.88E-09	2.55E-08	515	515
SUMO2	0.25577045	3.90E-09	2.56E-08	515	515
PRIM1	0.25574449	3.91E-09	2.56E-08	515	515
UHRF1BP1	0.25558202	4.00E-09	2.62E-08	515	515
TYMS	0.25556672	4.01E-09	2.63E-08	515	515
C14orf129	0.25555657	4.02E-09	2.63E-08	515	515
HNRNPL	0.25550794	4.05E-09	2.65E-08	515	515
PSMD2	0.25532809	4.15E-09	2.71E-08	515	515
SNX4	0.25527359	4.19E-09	2.73E-08	515	515
FAM35A	0.25527301	4.19E-09	2.73E-08	515	515
MAP7	0.2552516	4.20E-09	2.74E-08	515	515
IBTK	0.25502856	4.34E-09	2.82E-08	515	515
SLC33A1	0.25502022	4.34E-09	2.82E-08	515	515
PIP4K2C	0.25499935	4.36E-09	2.83E-08	515	515
NLE1	0.25499864	4.36E-09	2.83E-08	515	515
BIRC6	0.2549469	4.39E-09	2.85E-08	515	515
UAP1	0.25488061	4.43E-09	2.87E-08	515	515
PLA2G4A	0.25488055	4.43E-09	2.87E-08	515	515
CHAF1B	0.25481625	4.47E-09	2.90E-08	515	515
PABPC1	0.25471826	4.53E-09	2.93E-08	515	515
NAT10	0.25468731	4.55E-09	2.95E-08	515	515

CHEK2	0.25466575	4.57E-09	2.95E-08	515	515
RPS27A	0.25463184	4.59E-09	2.97E-08	515	515
C19orf40	0.25462349	4.60E-09	2.97E-08	515	515
SLC7A11	0.25455647	4.64E-09	3.00E-08	515	515
SOS1	0.25452932	4.66E-09	3.01E-08	515	515
RFK	0.25451973	4.67E-09	3.01E-08	515	515
ATP6V1C1	0.25446401	4.70E-09	3.03E-08	515	515
PDHB	0.25437177	4.77E-09	3.07E-08	515	515
DGUOK	0.25437027	4.77E-09	3.07E-08	515	515
BAT2L2	0.25423416	4.86E-09	3.12E-08	515	515
SEPHS1	0.25418493	4.89E-09	3.14E-08	515	515
FAM114A	0.25409078	4.96E-09	3.18E-08	515	515
CTPS	0.25408798	4.96E-09	3.18E-08	515	515
STARD7	0.25408481	4.97E-09	3.18E-08	515	515
ADIPOR2	0.25397194	5.05E-09	3.23E-08	515	515
PDCD2L	0.25394981	5.06E-09	3.24E-08	515	515
PIGM	0.25390419	5.09E-09	3.26E-08	515	515
HMGB3	0.25386737	5.12E-09	3.27E-08	515	515
IPO9	0.25386187	5.13E-09	3.28E-08	515	515
COPG	0.25379121	5.18E-09	3.30E-08	515	515
ABCF2	0.25372078	5.23E-09	3.33E-08	515	515
SSR3	0.25366931	5.27E-09	3.35E-08	515	515
SYNCRIP	0.25359549	5.32E-09	3.39E-08	515	515
CNOT7	0.25354009	5.37E-09	3.41E-08	515	515
TCTN3	0.25352502	5.38E-09	3.42E-08	515	515
LANCL1	0.25349002	5.41E-09	3.43E-08	515	515
ERRFI1	0.25326669	5.58E-09	3.54E-08	515	515
TCEB1	0.25315944	5.67E-09	3.59E-08	515	515
LOC39981	0.25297494	5.82E-09	3.68E-08	515	509
BRCA2	0.25292735	5.86E-09	3.70E-08	515	515
BNIP3	0.25281461	5.95E-09	3.76E-08	515	515
APOA1BP	0.25273073	6.02E-09	3.80E-08	515	515
KDM5B	0.25268977	6.06E-09	3.82E-08	515	515
CXorf61	0.25239591	6.32E-09	3.98E-08	515	342
RHPN2	0.25236519	6.34E-09	3.99E-08	515	515
HMGXB4	0.25236165	6.35E-09	3.99E-08	515	515
PSMD3	0.25235871	6.35E-09	3.99E-08	515	515
LOC72917	0.25223966	6.46E-09	4.05E-08	515	515
NCBP1	0.2520553	6.63E-09	4.15E-08	515	515
TMEM5	0.25200379	6.68E-09	4.18E-08	515	515
CTSL2	0.25200062	6.68E-09	4.18E-08	515	515
ZNF770	0.25157214	7.10E-09	4.42E-08	515	515
ORC4L	0.25145927	7.21E-09	4.49E-08	515	515
TAF5L	0.25137731	7.30E-09	4.54E-08	515	515

PRPF4	0.25132054	7.36E-09	4.57E-08	515	515
UBE3A	0.25112079	7.57E-09	4.70E-08	515	515
LMNB1	0.25102028	7.68E-09	4.76E-08	515	515
UBE2C	0.25076276	7.96E-09	4.92E-08	515	515
DEK	0.2506932	8.04E-09	4.96E-08	515	515
EXOSC3	0.25053868	8.21E-09	5.06E-08	515	515
NCAPD3	0.25046591	8.30E-09	5.11E-08	515	515
SCML2	0.25045593	8.31E-09	5.12E-08	515	515
RTN4	0.25042693	8.35E-09	5.13E-08	515	515
C1orf131	0.250392	8.39E-09	5.15E-08	515	515
C18orf19	0.25026071	8.54E-09	5.25E-08	515	515
HOOK1	0.25018783	8.63E-09	5.30E-08	515	515
SDAD1	0.25016485	8.66E-09	5.31E-08	515	515
PRAME	0.2501446	8.68E-09	5.33E-08	515	495
VBP1	0.25010401	8.73E-09	5.35E-08	515	515
TRIAP1	0.25007883	8.76E-09	5.37E-08	515	515
STT3B	0.25007619	8.77E-09	5.37E-08	515	515
PYGL	0.25000728	8.85E-09	5.42E-08	515	515
NFYA	0.2499342	8.94E-09	5.47E-08	515	515
TEX261	0.24992312	8.96E-09	5.48E-08	515	515
RRP12	0.24973845	9.19E-09	5.62E-08	515	515
PSMA1	0.24972337	9.21E-09	5.63E-08	515	515
VCP	0.24938972	9.65E-09	5.87E-08	515	515
HSPA13	0.24920692	9.91E-09	6.01E-08	515	515
PSMC4	0.24906642	1.01E-08	6.12E-08	515	515
EIF3B	0.24890987	1.03E-08	6.25E-08	515	515
CSTF3	0.24882432	1.05E-08	6.32E-08	515	515
PAPD5	0.24882125	1.05E-08	6.32E-08	515	515
MAP3K2	0.2485921	1.08E-08	6.51E-08	515	515
C12orf52	0.24858328	1.08E-08	6.52E-08	515	515
RIPK2	0.24851464	1.09E-08	6.57E-08	515	515
TFCP2	0.24847613	1.10E-08	6.61E-08	515	515
KIAA0090	0.24841499	1.11E-08	6.66E-08	515	515
LRRC40	0.24812421	1.15E-08	6.91E-08	515	515
AVL9	0.24809773	1.16E-08	6.93E-08	515	515
HEATR5A	0.24803371	1.17E-08	6.99E-08	515	515
KIAA1279	0.24800076	1.17E-08	7.01E-08	515	515
CLIP1	0.24798172	1.18E-08	7.03E-08	515	515
NUCKS1	0.24794171	1.18E-08	7.06E-08	515	515
GPI	0.2479283	1.18E-08	7.07E-08	515	515
APOOL	0.24791295	1.19E-08	7.08E-08	515	515
N4BP2	0.24779942	1.21E-08	7.19E-08	515	515
PHB	0.24742751	1.27E-08	7.54E-08	515	515
AUP1	0.24727966	1.30E-08	7.69E-08	515	515

EIF2A	0.24719975	1.31E-08	7.76E-08	515	515
VCPIP1	0.2469651	1.35E-08	8.00E-08	515	515
LIN7C	0.24695828	1.36E-08	8.01E-08	515	515
CCDC51	0.24685563	1.37E-08	8.11E-08	515	515
SLC38A1	0.2468466	1.38E-08	8.12E-08	515	515
ADSS	0.24677184	1.39E-08	8.20E-08	515	515
TCP1	0.2467598	1.39E-08	8.21E-08	515	515
YRDC	0.24665447	1.41E-08	8.32E-08	515	515
MTL5	0.24662268	1.42E-08	8.35E-08	515	515
PPP1R12A	0.24639661	1.46E-08	8.59E-08	515	515
PVR	0.24637564	1.47E-08	8.61E-08	515	515
INTS6	0.24626548	1.49E-08	8.73E-08	515	515
DERA	0.24624152	1.50E-08	8.76E-08	515	515
FASTKD1	0.24622852	1.50E-08	8.77E-08	515	515
PIGN	0.24622567	1.50E-08	8.77E-08	515	515
ABCC2	0.24610062	1.53E-08	8.91E-08	515	515
C17orf63	0.24605248	1.54E-08	8.97E-08	515	515
UTP15	0.2459628	1.56E-08	9.07E-08	515	515
TTLL4	0.24575632	1.60E-08	9.31E-08	515	515
MLF2	0.24567293	1.62E-08	9.40E-08	515	515
SMARCE1	0.24558772	1.64E-08	9.50E-08	515	515
RAD54L	0.245364	1.69E-08	9.78E-08	515	515
VTI1A	0.24532316	1.70E-08	9.83E-08	515	515
GIN53	0.24532189	1.70E-08	9.83E-08	515	515
CCDC77	0.24509243	1.75E-08	1.01E-07	515	515
SRPRB	0.24502151	1.77E-08	1.02E-07	515	515
C17orf71	0.24494091	1.79E-08	1.03E-07	515	515
COPS8	0.2448617	1.81E-08	1.04E-07	515	515
OBFC2B	0.24476629	1.83E-08	1.05E-07	515	515
INCENP	0.24475897	1.84E-08	1.05E-07	515	515
RPN2	0.24452695	1.90E-08	1.09E-07	515	515
STRN3	0.24439694	1.93E-08	1.11E-07	515	515
TACC3	0.24426527	1.96E-08	1.12E-07	515	515
GUF1	0.24416781	1.99E-08	1.14E-07	515	515
FGL1	0.24404779	2.02E-08	1.15E-07	515	496
HTATIP2	0.24402171	2.03E-08	1.16E-07	515	515
PITPNC1	0.24401579	2.03E-08	1.16E-07	515	515
HLTF	0.24382628	2.09E-08	1.19E-07	515	515
GSR	0.24379291	2.10E-08	1.19E-07	515	515
METTL2B	0.2436668	2.13E-08	1.21E-07	515	515
TGIF1	0.24365144	2.14E-08	1.21E-07	515	515
SPR	0.24348974	2.18E-08	1.24E-07	515	515
CNIH	0.24336634	2.22E-08	1.26E-07	515	515
FNTA	0.24320704	2.27E-08	1.28E-07	515	515

DUSP4	0.24320581	2.27E-08	1.28E-07	515	515
AGXT2L1	0.24293966	2.36E-08	1.33E-07	515	233
FAM103A	0.2428881	2.37E-08	1.34E-07	515	515
PRCC	0.24278528	2.41E-08	1.35E-07	515	515
MINPP1	0.24269514	2.44E-08	1.37E-07	515	515
LRRC1	0.24262252	2.46E-08	1.38E-07	515	515
RPS7	0.24260481	2.47E-08	1.39E-07	515	515
AIMP1	0.24246637	2.51E-08	1.41E-07	515	515
SOCS5	0.24228222	2.58E-08	1.44E-07	515	515
RPL22L1	0.24227116	2.58E-08	1.44E-07	515	515
C13orf34	0.2422568	2.58E-08	1.45E-07	515	515
DIABLO	0.24223233	2.59E-08	1.45E-07	515	515
PDCD5	0.24222606	2.60E-08	1.45E-07	515	515
RAB5A	0.24217284	2.61E-08	1.46E-07	515	515
ALG8	0.24204728	2.66E-08	1.48E-07	515	515
SF3B3	0.24191991	2.71E-08	1.51E-07	515	515
CDC7	0.24165998	2.80E-08	1.56E-07	515	515
PRMT5	0.24163352	2.81E-08	1.56E-07	515	515
AACS	0.24160892	2.82E-08	1.57E-07	515	515
RPF2	0.24148522	2.87E-08	1.59E-07	515	515
CPD	0.24139639	2.90E-08	1.61E-07	515	515
C5orf43	0.24136927	2.92E-08	1.62E-07	515	515
LETM1	0.2413277	2.93E-08	1.62E-07	515	515
HSP90B3P	0.24129173	2.95E-08	1.63E-07	515	513
MRPL51	0.24127653	2.95E-08	1.63E-07	515	515
MCM2	0.24122303	2.97E-08	1.64E-07	515	515
GTF2F2	0.24116685	3.00E-08	1.66E-07	515	515
C19orf48	0.24108243	3.03E-08	1.67E-07	515	515
IER3IP1	0.24098138	3.07E-08	1.69E-07	515	515
NUDT19	0.24093105	3.09E-08	1.70E-07	515	515
PHB2	0.24086526	3.12E-08	1.72E-07	515	515
RNFT2	0.24085684	3.12E-08	1.72E-07	515	515
CDK2	0.24077089	3.16E-08	1.74E-07	515	515
ATAD2B	0.24076659	3.16E-08	1.74E-07	515	515
FGG	0.240541	3.26E-08	1.79E-07	515	507
XPR1	0.24046905	3.29E-08	1.81E-07	515	515
C6orf153	0.2403771	3.33E-08	1.83E-07	515	515
C13orf38	0.24036872	3.34E-08	1.83E-07	515	495
GTF2A2	0.24027032	3.38E-08	1.85E-07	515	515
HIF1A	0.24023417	3.40E-08	1.86E-07	515	515
PSMA5	0.24010018	3.46E-08	1.89E-07	515	515
ENAH	0.23995817	3.53E-08	1.92E-07	515	515
CCNE1	0.2398757	3.57E-08	1.94E-07	515	515
TMEM41A	0.23984018	3.58E-08	1.95E-07	515	515

API5	0.23957706	3.71E-08	2.02E-07	515	515
TRAIP	0.23935057	3.83E-08	2.07E-07	515	515
FANCD2	0.23931706	3.84E-08	2.08E-07	515	515
PGD	0.2391366	3.94E-08	2.13E-07	515	515
KCTD3	0.23903908	3.99E-08	2.16E-07	515	515
AFG3L2	0.23899225	4.02E-08	2.17E-07	515	515
NACA	0.23896953	4.03E-08	2.18E-07	515	515
FGF12	0.23896026	4.03E-08	2.18E-07	515	513
TACO1	0.23887789	4.08E-08	2.20E-07	515	515
MCCC2	0.23884736	4.09E-08	2.21E-07	515	515
ERAL1	0.23855143	4.26E-08	2.29E-07	515	515
SEC23B	0.23851202	4.28E-08	2.30E-07	515	515
POGK	0.23850423	4.29E-08	2.30E-07	515	515
IGF2BP3	0.23837145	4.36E-08	2.34E-07	515	515
HN1	0.23814145	4.50E-08	2.41E-07	515	515
ERMP1	0.23809203	4.53E-08	2.42E-07	515	515
CISD2	0.23808263	4.53E-08	2.43E-07	515	515
UBE2MP1	0.23807584	4.54E-08	2.43E-07	515	515
PPP2R5E	0.237861	4.67E-08	2.49E-07	515	515
KDM5A	0.23783404	4.69E-08	2.50E-07	515	515
ORMDL2	0.23774649	4.74E-08	2.53E-07	515	515
C18orf54	0.23763183	4.82E-08	2.56E-07	515	515
C12orf39	0.23761319	4.83E-08	2.57E-07	515	241
SKP2	0.23741201	4.96E-08	2.63E-07	515	515
KIAA0020	0.23725155	5.07E-08	2.69E-07	515	515
ATF2	0.23720365	5.10E-08	2.70E-07	515	515
RSPO3	0.23716721	5.12E-08	2.72E-07	515	515
PCGF1	0.23710003	5.17E-08	2.74E-07	515	515
ANKIB1	0.23708562	5.18E-08	2.74E-07	515	515
ZNF643	0.23676765	5.40E-08	2.85E-07	515	515
USP37	0.23676132	5.41E-08	2.85E-07	515	515
ANP32C	0.23668358	5.46E-08	2.88E-07	515	484
SAPS3	0.23665787	5.48E-08	2.89E-07	515	515
VANGL1	0.23648323	5.61E-08	2.95E-07	515	515
COG6	0.23639552	5.67E-08	2.99E-07	515	515
COX10	0.23636233	5.70E-08	3.00E-07	515	515
ATG16L1	0.23626278	5.78E-08	3.04E-07	515	515
EIF3M	0.23625606	5.78E-08	3.04E-07	515	515
SR140	0.23624584	5.79E-08	3.04E-07	515	515
ARNTL2	0.23606192	5.93E-08	3.11E-07	515	515
GCLC	0.23579113	6.15E-08	3.21E-07	515	515
UBE2F	0.23573924	6.19E-08	3.23E-07	515	515
GMFB	0.23565503	6.26E-08	3.27E-07	515	515
MRPL10	0.2356171	6.29E-08	3.28E-07	515	515

FAM40B	0.23551373	6.38E-08	3.32E-07	515	515
BLZF1	0.2354781	6.41E-08	3.34E-07	515	515
C16orf59	0.23536824	6.50E-08	3.38E-07	515	515
EXOC6	0.23521996	6.63E-08	3.44E-07	515	515
TEAD4	0.23510397	6.73E-08	3.49E-07	515	515
NCSTN	0.23496157	6.86E-08	3.55E-07	515	515
PLEKHA8	0.23491577	6.90E-08	3.57E-07	515	515
DTYMK	0.23479629	7.01E-08	3.62E-07	515	515
KDM3A	0.234779	7.02E-08	3.63E-07	515	515
KCNU1	0.23474972	7.05E-08	3.64E-07	515	169
CNPY2	0.23474466	7.06E-08	3.64E-07	515	515
UBE2S	0.23451297	7.27E-08	3.75E-07	515	515
SLC44A1	0.2344878	7.30E-08	3.76E-07	515	515
LOC44245	0.23426571	7.51E-08	3.87E-07	515	515
AMMECR1	0.23405391	7.72E-08	3.97E-07	515	515
TLK2	0.23404012	7.74E-08	3.97E-07	515	515
MRPL24	0.2338849	7.90E-08	4.05E-07	515	515
ATMIN	0.23377628	8.01E-08	4.10E-07	515	515
SMAD2	0.23377058	8.02E-08	4.11E-07	515	515
NIPA2	0.23368157	8.11E-08	4.15E-07	515	515
USP5	0.23357043	8.23E-08	4.21E-07	515	515
SLC35E3	0.23355463	8.25E-08	4.22E-07	515	515
GAR1	0.23335432	8.47E-08	4.33E-07	515	515
IPO5	0.23333644	8.49E-08	4.34E-07	515	515
CEP78	0.23327708	8.55E-08	4.37E-07	515	515
TXN	0.23326999	8.56E-08	4.37E-07	515	515
GATC	0.23323984	8.59E-08	4.39E-07	515	515
C6orf167	0.23316517	8.68E-08	4.43E-07	515	515
RALGPS2	0.23309465	8.76E-08	4.46E-07	515	515
RSL1D1	0.23309192	8.76E-08	4.46E-07	515	515
UBE2Q1	0.23301744	8.85E-08	4.50E-07	515	515
INHA	0.23297063	8.90E-08	4.53E-07	515	492
VEZT	0.23282054	9.08E-08	4.61E-07	515	515
PPPDE1	0.23274233	9.17E-08	4.65E-07	515	515
C2orf44	0.23273046	9.18E-08	4.65E-07	515	515
RG9MTD2	0.23261205	9.33E-08	4.72E-07	515	515
TMEM106	0.2325812	9.36E-08	4.74E-07	515	515
VTA1	0.23234861	9.65E-08	4.88E-07	515	515
SRP54	0.23216728	9.88E-08	4.99E-07	515	515
TMED10P1	0.23197972	1.01E-07	5.10E-07	515	515
TUBB3	0.23188304	1.03E-07	5.16E-07	515	515
YEATS4	0.23158118	1.07E-07	5.35E-07	515	515
HAL	0.2315679	1.07E-07	5.36E-07	515	514
WRN	0.23149906	1.08E-07	5.41E-07	515	515

TMCO1	0.23130681	1.10E-07	5.53E-07	515	515
IAH1	0.23119517	1.12E-07	5.61E-07	515	515
THAP1	0.23117184	1.12E-07	5.62E-07	515	515
ASCC1	0.23106185	1.14E-07	5.69E-07	515	515
COG5	0.23091475	1.16E-07	5.79E-07	515	515
UBXN7	0.23083344	1.17E-07	5.85E-07	515	515
KLHL5	0.23080364	1.18E-07	5.87E-07	515	515
UBE2W	0.23073518	1.19E-07	5.92E-07	515	515
GLRX2	0.23071896	1.19E-07	5.93E-07	515	515
DSC2	0.23055982	1.22E-07	6.04E-07	515	515
IQGAP3	0.23055067	1.22E-07	6.05E-07	515	515
ELMOD2	0.23053716	1.22E-07	6.05E-07	515	515
ACN9	0.23021755	1.27E-07	6.29E-07	515	515
PLEKHA3	0.23020554	1.27E-07	6.30E-07	515	515
MRPL33	0.23018872	1.28E-07	6.31E-07	515	515
DNAJB11	0.23013231	1.29E-07	6.35E-07	515	515
UBE2R2	0.23012052	1.29E-07	6.36E-07	515	515
RHOV	0.2300767	1.29E-07	6.40E-07	515	515
SHOC2	0.22975608	1.35E-07	6.64E-07	515	515
ZNF259	0.22952182	1.39E-07	6.83E-07	515	515
SUPT16H	0.22950535	1.39E-07	6.84E-07	515	515
SCFD1	0.2294578	1.40E-07	6.88E-07	515	515
RPP30	0.22944756	1.40E-07	6.89E-07	515	515
KIAA1715	0.22940965	1.41E-07	6.92E-07	515	515
NDUFA9	0.22933004	1.43E-07	6.98E-07	515	515
ATXN7L3B	0.22915633	1.46E-07	7.13E-07	515	515
NDUF4F4	0.22907726	1.47E-07	7.19E-07	515	515
AURKAPS1	0.22907695	1.47E-07	7.19E-07	515	515
TTC39C	0.22886075	1.51E-07	7.38E-07	515	515
ACOT13	0.22885521	1.51E-07	7.38E-07	515	515
MRS2	0.22874179	1.54E-07	7.48E-07	515	515
EMG1	0.22846573	1.59E-07	7.73E-07	515	515
SLC30A9	0.22846186	1.59E-07	7.73E-07	515	515
FXN	0.22844113	1.60E-07	7.75E-07	515	515
CDK16	0.22821136	1.64E-07	7.96E-07	515	515
RTCD1	0.22819867	1.65E-07	7.96E-07	515	515
SLC2A1	0.22817654	1.65E-07	7.98E-07	515	515
ZNF664	0.22814114	1.66E-07	8.01E-07	515	515
GCSH	0.22809393	1.67E-07	8.06E-07	515	514
ARID3A	0.22800254	1.69E-07	8.15E-07	515	515
GTF2E2	0.22775636	1.74E-07	8.40E-07	515	515
TAOK1	0.22763771	1.77E-07	8.52E-07	515	515
TMEM214	0.22761012	1.78E-07	8.55E-07	515	515
NECAP1	0.2276095	1.78E-07	8.55E-07	515	515

MED13	0.22757086	1.78E-07	8.59E-07	515	515
ARPC3	0.22756863	1.78E-07	8.59E-07	515	515
TXNL1	0.22751908	1.80E-07	8.64E-07	515	515
TUBB	0.22714658	1.88E-07	9.03E-07	515	515
SCRN3	0.22690764	1.94E-07	9.28E-07	515	515
C14orf33	0.22686484	1.95E-07	9.33E-07	515	515
TPD52	0.22685501	1.95E-07	9.34E-07	515	515
PSMD6	0.22684071	1.96E-07	9.35E-07	515	515
WSB2	0.22675031	1.98E-07	9.46E-07	515	515
CABYR	0.22667673	2.00E-07	9.54E-07	515	515
C1orf27	0.2265789	2.02E-07	9.64E-07	515	515
ZNF280A	0.22650059	2.04E-07	9.73E-07	515	231
ZNF367	0.22640414	2.07E-07	9.85E-07	515	515
KIAA0196	0.2263159	2.09E-07	9.95E-07	515	515
MRPL37	0.22620905	2.12E-07	1.01E-06	515	515
CPSF6	0.22606454	2.16E-07	1.03E-06	515	515
ASCC3	0.22603264	2.17E-07	1.03E-06	515	515
COPS3	0.22603233	2.17E-07	1.03E-06	515	515
EAF1	0.2260125	2.17E-07	1.03E-06	515	515
SEC22B	0.22597089	2.19E-07	1.04E-06	515	515
POU2F1	0.22591735	2.20E-07	1.04E-06	515	515
GOT1	0.22588509	2.21E-07	1.05E-06	515	515
NOL6	0.2258458	2.22E-07	1.05E-06	515	515
STOML2	0.22583957	2.22E-07	1.05E-06	515	515
EIF2AK4	0.22567743	2.27E-07	1.07E-06	515	515
KDM1A	0.22560851	2.29E-07	1.08E-06	515	515
EXOC2	0.22524944	2.39E-07	1.13E-06	515	515
DNAJC2	0.22524081	2.40E-07	1.13E-06	515	515
GNAI3	0.2252127	2.40E-07	1.13E-06	515	515
RANBP1	0.22520424	2.41E-07	1.14E-06	515	515
C6orf129	0.22519831	2.41E-07	1.14E-06	515	515
PHF6	0.22510949	2.44E-07	1.15E-06	515	515
COPS5	0.22481613	2.53E-07	1.19E-06	515	515
SSRP1	0.22457638	2.60E-07	1.22E-06	515	515
USP34	0.22449765	2.63E-07	1.23E-06	515	515
ERI1	0.22443285	2.65E-07	1.24E-06	515	515
LMNB2	0.22442854	2.65E-07	1.24E-06	515	515
NAA30	0.2243668	2.67E-07	1.25E-06	515	515
MDH2	0.22418509	2.74E-07	1.27E-06	515	515
CHMP4C	0.22413348	2.75E-07	1.28E-06	515	515
NAF1	0.2241256	2.76E-07	1.28E-06	515	515
RANBP2	0.22408435	2.77E-07	1.29E-06	515	515
CAPZA1	0.22396376	2.81E-07	1.31E-06	515	515
RCN1	0.2238854	2.84E-07	1.32E-06	515	515

FAM20B	0.22382289	2.86E-07	1.33E-06	515	515
ADAMTS2	0.22377884	2.88E-07	1.33E-06	515	221
NARS2	0.22368488	2.91E-07	1.35E-06	515	515
MAK16	0.2236484	2.93E-07	1.35E-06	515	515
C12orf34	0.22350849	2.98E-07	1.37E-06	515	515
LSM14A	0.22348567	2.99E-07	1.38E-06	515	515
KLHL23	0.22346406	2.99E-07	1.38E-06	515	515
ZNF638	0.22341452	3.01E-07	1.39E-06	515	515
DRG1	0.22334838	3.04E-07	1.40E-06	515	515
NT5DC3	0.22330429	3.05E-07	1.41E-06	515	515
RNF6	0.22310737	3.13E-07	1.44E-06	515	515
HRG	0.22308207	3.14E-07	1.44E-06	515	281
TMEM68	0.22307933	3.14E-07	1.44E-06	515	515
TET1	0.22307727	3.14E-07	1.44E-06	515	515
HSF2BP	0.22301414	3.17E-07	1.45E-06	515	515
CHMP5	0.22286563	3.23E-07	1.48E-06	515	515
COQ3	0.2228586	3.23E-07	1.48E-06	515	515
HYLS1	0.22272706	3.28E-07	1.50E-06	515	515
AZIN1	0.22266475	3.31E-07	1.51E-06	515	515
SUCLG2	0.2224517	3.40E-07	1.55E-06	515	515
DUS4L	0.22238019	3.43E-07	1.56E-06	515	515
MGST1	0.22235602	3.44E-07	1.56E-06	515	515
UBAP2L	0.22232747	3.45E-07	1.57E-06	515	515
GLDC	0.22227748	3.47E-07	1.58E-06	515	515
DCAF16	0.22210941	3.54E-07	1.61E-06	515	515
LOC10013	0.22205115	3.57E-07	1.62E-06	515	511
RMI1	0.2220075	3.59E-07	1.63E-06	515	515
KIN	0.22199146	3.60E-07	1.63E-06	515	515
RALBP1	0.22186355	3.65E-07	1.66E-06	515	515
PSMA6	0.22185537	3.66E-07	1.66E-06	515	515
GAST	0.22159494	3.78E-07	1.71E-06	515	74
POLE4	0.2215903	3.78E-07	1.71E-06	515	515
PTPLB	0.22157799	3.79E-07	1.71E-06	515	515
ADO	0.22154089	3.80E-07	1.72E-06	515	515
DNAJA1	0.22139004	3.87E-07	1.75E-06	515	515
TMEM14B	0.22135485	3.89E-07	1.75E-06	515	515
LOC14443	0.22125832	3.94E-07	1.77E-06	515	515
KLHL15	0.22115289	3.99E-07	1.80E-06	515	515
DYM	0.22098068	4.08E-07	1.83E-06	515	515
SC65	0.22083668	4.15E-07	1.86E-06	515	515
CNOT2	0.22081408	4.16E-07	1.87E-06	515	515
MAN1A2	0.22080485	4.16E-07	1.87E-06	515	515
C9orf100	0.22078522	4.17E-07	1.87E-06	515	515
C18orf55	0.22052255	4.31E-07	1.93E-06	515	515

PITRM1	0.22049958	4.32E-07	1.93E-06	515	515
CD46	0.22047107	4.34E-07	1.94E-06	515	515
S100P	0.22032758	4.42E-07	1.97E-06	515	515
HIST1H2B	0.22016299	4.51E-07	2.01E-06	515	514
CYC1	0.22005605	4.57E-07	2.03E-06	515	515
ME1	0.22003866	4.58E-07	2.03E-06	515	515
B4GALT3	0.21996766	4.62E-07	2.05E-06	515	515
PSMD4	0.21991529	4.65E-07	2.06E-06	515	515
C1orf9	0.21990017	4.65E-07	2.06E-06	515	515
TOM1L1	0.21983665	4.69E-07	2.08E-06	515	515
OR1F1	0.21982479	4.70E-07	2.08E-06	515	142
ELAVL1	0.21968031	4.78E-07	2.12E-06	515	515
UBA6	0.21965385	4.80E-07	2.12E-06	515	515
LOC10013	0.21964527	4.80E-07	2.12E-06	515	427
TMED7	0.21964268	4.80E-07	2.12E-06	515	515
STT3A	0.21953818	4.87E-07	2.15E-06	515	515
UTP14A	0.21953207	4.87E-07	2.15E-06	515	515
C5orf33	0.21947564	4.90E-07	2.16E-06	515	515
NACA2	0.21946628	4.91E-07	2.17E-06	515	515
UBE2H	0.21943364	4.93E-07	2.17E-06	515	515
HOXA11	0.2193772	4.96E-07	2.19E-06	515	359
COPG2	0.21934985	4.98E-07	2.19E-06	515	515
RTF1	0.21923137	5.05E-07	2.22E-06	515	515
MAP2K4	0.21916146	5.10E-07	2.24E-06	515	515
ACBD6	0.2191507	5.10E-07	2.24E-06	515	515
OTUB2	0.2190719	5.15E-07	2.26E-06	515	515
CCDC99	0.21904612	5.17E-07	2.27E-06	515	515
SRP68	0.21903201	5.18E-07	2.27E-06	515	515
C10orf58	0.21885625	5.29E-07	2.31E-06	515	515
RFC4	0.21877856	5.34E-07	2.33E-06	515	515
CNO	0.21869019	5.40E-07	2.36E-06	515	515
NPM1	0.21868412	5.40E-07	2.36E-06	515	515
PGAM4	0.21863268	5.44E-07	2.37E-06	515	515
TBC1D7	0.21859635	5.46E-07	2.38E-06	515	515
PGBD3	0.21814221	5.77E-07	2.51E-06	515	515
CCDC86	0.21806059	5.83E-07	2.53E-06	515	515
QTRTD1	0.21790527	5.94E-07	2.58E-06	515	515
VAPA	0.21775865	6.05E-07	2.62E-06	515	515
GTF2E1	0.2175799	6.18E-07	2.67E-06	515	515
PUS1	0.21754325	6.21E-07	2.68E-06	515	515
SQLE	0.21745701	6.27E-07	2.71E-06	515	515
ZCRB1	0.21742169	6.30E-07	2.72E-06	515	515
TKT	0.21740417	6.31E-07	2.72E-06	515	515
GBX2	0.21726446	6.42E-07	2.77E-06	515	295

OGFOD1	0.21725884	6.42E-07	2.77E-06	515	515
ALDH3B2	0.21703568	6.60E-07	2.84E-06	515	514
CDCA4	0.21692352	6.69E-07	2.88E-06	515	515
ARF3	0.21683777	6.76E-07	2.91E-06	515	515
TMEM69	0.21668395	6.89E-07	2.96E-06	515	515
NOP56	0.21659386	6.96E-07	2.99E-06	515	515
RBPMS2	0.21657331	6.98E-07	2.99E-06	515	515
EIF2B1	0.21650759	7.04E-07	3.01E-06	515	515
NT5C2	0.21636341	7.16E-07	3.06E-06	515	515
CENPQ	0.21634593	7.18E-07	3.07E-06	515	515
LSM5	0.21632464	7.19E-07	3.07E-06	515	515
TMSB10	0.21620893	7.29E-07	3.11E-06	515	515
HCCS	0.21604352	7.44E-07	3.17E-06	515	515
POLR3B	0.21601138	7.47E-07	3.18E-06	515	515
ZNF695	0.21600049	7.48E-07	3.18E-06	515	507
TFDP2	0.21599637	7.48E-07	3.18E-06	515	515
PRPSAP2	0.21589314	7.58E-07	3.22E-06	515	515
MOCOS	0.21587776	7.59E-07	3.23E-06	515	515
IREB2	0.21586253	7.61E-07	3.23E-06	515	515
FNDC3B	0.21581309	7.65E-07	3.25E-06	515	515
FYTTD1	0.21579498	7.67E-07	3.26E-06	515	515
RLIM	0.21577799	7.68E-07	3.26E-06	515	515
PDZD8	0.21573518	7.72E-07	3.28E-06	515	515
LOC15078	0.21563044	7.82E-07	3.32E-06	515	515
HHIPL2	0.215559	7.89E-07	3.34E-06	515	498
SORD	0.21545382	7.99E-07	3.38E-06	515	515
CIAPIN1	0.21542315	8.02E-07	3.39E-06	515	515
PRKAA2	0.21532448	8.11E-07	3.43E-06	515	515
LMBR1	0.21523278	8.20E-07	3.46E-06	515	515
THEM5	0.21519558	8.24E-07	3.48E-06	515	505
DDX55	0.2151551	8.28E-07	3.49E-06	515	515
STC2	0.21512217	8.31E-07	3.51E-06	515	515
XPO7	0.21508642	8.35E-07	3.52E-06	515	515
GRINL1A	0.21507244	8.36E-07	3.52E-06	515	515
CHCHD4	0.21506307	8.37E-07	3.53E-06	515	515
UBE2NL	0.21501049	8.43E-07	3.55E-06	515	493
MRTO4	0.21499882	8.44E-07	3.55E-06	515	515
SIGMAR1	0.21493734	8.50E-07	3.58E-06	515	515
TMEM194	0.21482169	8.62E-07	3.62E-06	515	515
COQ5	0.21479867	8.64E-07	3.63E-06	515	515
ATP5A1	0.21476026	8.68E-07	3.65E-06	515	515
PAFAH1B2	0.21475554	8.69E-07	3.65E-06	515	515
POPDC3	0.21469076	8.76E-07	3.68E-06	515	469
RB1CC1	0.21464828	8.80E-07	3.69E-06	515	515

TDRD5	0.21459297	8.86E-07	3.71E-06	515	458
TOP1P1	0.2144895	8.97E-07	3.75E-06	515	515
ESM1	0.21439108	9.08E-07	3.79E-06	515	515
LAPTM4B	0.21435465	9.11E-07	3.81E-06	515	515
ZNF148	0.21427988	9.20E-07	3.84E-06	515	515
C16orf88	0.21421706	9.27E-07	3.86E-06	515	515
PCSK1	0.21419364	9.29E-07	3.87E-06	515	510
URB1	0.21418695	9.30E-07	3.88E-06	515	515
SCOC	0.21396988	9.54E-07	3.97E-06	515	515
SNRPB2	0.21389358	9.63E-07	4.00E-06	515	515
EXOC5	0.21370834	9.85E-07	4.09E-06	515	515
RPLP0	0.21368425	9.87E-07	4.10E-06	515	515
MED14	0.21359326	9.98E-07	4.14E-06	515	515
NUDT21	0.21348027	1.01E-06	4.19E-06	515	515
ETFA	0.2133905	1.02E-06	4.23E-06	515	515
GPT2	0.21328609	1.04E-06	4.28E-06	515	515
MEX3A	0.21325642	1.04E-06	4.29E-06	515	515
C10orf57	0.21324391	1.04E-06	4.30E-06	515	515
C15orf63	0.21322941	1.04E-06	4.31E-06	515	515
SAE1	0.21320783	1.05E-06	4.32E-06	515	515
KNTC1	0.21314138	1.05E-06	4.35E-06	515	515
ADAM10	0.21313429	1.05E-06	4.35E-06	515	515
KIAA0564	0.21312315	1.06E-06	4.36E-06	515	515
ANP32A	0.21309676	1.06E-06	4.37E-06	515	515
FBXO5	0.21302242	1.07E-06	4.40E-06	515	515
CHMP2B	0.21299835	1.07E-06	4.41E-06	515	515
CPNE3	0.21268087	1.11E-06	4.57E-06	515	515
ZNF697	0.2123264	1.16E-06	4.75E-06	515	515
EIF3H	0.21230858	1.16E-06	4.76E-06	515	515
KDM1B	0.21222444	1.17E-06	4.81E-06	515	515
TRIM16L	0.21215168	1.18E-06	4.85E-06	515	515
FUCA2	0.21210135	1.19E-06	4.87E-06	515	515
MRPS28	0.21208041	1.19E-06	4.88E-06	515	515
EIF4G2	0.21203294	1.20E-06	4.91E-06	515	515
PLEKHB2	0.2119858	1.21E-06	4.93E-06	515	515
ASAH2	0.21193827	1.21E-06	4.96E-06	515	506
HBS1L	0.21189596	1.22E-06	4.98E-06	515	515
PATL1	0.21187971	1.22E-06	4.99E-06	515	515
RBBP8	0.2118522	1.23E-06	5.00E-06	515	515
KIAA0391	0.21173441	1.24E-06	5.07E-06	515	515
G3BP2	0.21171156	1.25E-06	5.08E-06	515	515
C9orf40	0.21151336	1.28E-06	5.19E-06	515	515
POLR2K	0.21151316	1.28E-06	5.19E-06	515	515
FAM83H	0.21150687	1.28E-06	5.20E-06	515	515

PPA1	0.2115001	1.28E-06	5.20E-06	515	515
MRPS15	0.2112469	1.32E-06	5.35E-06	515	515
NPEPPS	0.21123854	1.32E-06	5.35E-06	515	515
PDF	0.21113418	1.34E-06	5.41E-06	515	515
LZIC	0.21102934	1.35E-06	5.48E-06	515	515
ARL6IP1	0.2106683	1.41E-06	5.70E-06	515	515
DDB1	0.21063603	1.42E-06	5.72E-06	515	515
QSER1	0.2106098	1.42E-06	5.73E-06	515	515
TRIM28	0.21046012	1.45E-06	5.82E-06	515	515
CTBS	0.21040661	1.46E-06	5.86E-06	515	515
IPMK	0.21033882	1.47E-06	5.90E-06	515	515
C17orf75	0.21032137	1.47E-06	5.91E-06	515	515
RAB21	0.21014647	1.50E-06	6.02E-06	515	515
EIF3C	0.21003223	1.52E-06	6.10E-06	515	509
CWF19L1	0.21001048	1.52E-06	6.11E-06	515	515
GALK2	0.20992696	1.54E-06	6.17E-06	515	515
TRIM59	0.20988324	1.55E-06	6.20E-06	515	515
ANKRD39	0.20979196	1.56E-06	6.26E-06	515	515
C15orf41	0.20978081	1.57E-06	6.27E-06	515	515
MESDC2	0.20976087	1.57E-06	6.28E-06	515	515
MRPL17	0.20967027	1.59E-06	6.34E-06	515	515
DDX23	0.2096071	1.60E-06	6.39E-06	515	515
TMEM117	0.20959702	1.60E-06	6.39E-06	515	515
C12orf43	0.20942355	1.63E-06	6.52E-06	515	515
SMARCA5	0.20938118	1.64E-06	6.55E-06	515	515
FAM35B	0.20933276	1.65E-06	6.58E-06	515	515
TMOD3	0.20901771	1.71E-06	6.82E-06	515	515
LARS2	0.20900532	1.71E-06	6.83E-06	515	515
RREB1	0.20896574	1.72E-06	6.85E-06	515	515
CAGE1	0.20886076	1.74E-06	6.93E-06	515	387
PCGF5	0.20869874	1.78E-06	7.06E-06	515	515
GPR89A	0.20868021	1.78E-06	7.07E-06	515	515
DFFA	0.20862931	1.79E-06	7.11E-06	515	515
LCOR	0.20851297	1.82E-06	7.20E-06	515	515
WDR26	0.20846204	1.83E-06	7.24E-06	515	515
CLOCK	0.20844938	1.83E-06	7.25E-06	515	515
SMG7	0.20837936	1.84E-06	7.30E-06	515	515
SMC4	0.20830939	1.86E-06	7.35E-06	515	515
SLC7A2	0.20830888	1.86E-06	7.35E-06	515	515
ERCC3	0.20830487	1.86E-06	7.35E-06	515	515
PIK3C2A	0.20824798	1.87E-06	7.40E-06	515	515
SFPQ	0.20818022	1.89E-06	7.46E-06	515	515
DHX37	0.20813511	1.90E-06	7.50E-06	515	515
SLC1A5	0.20804372	1.92E-06	7.57E-06	515	515

DDN	0.20801541	1.92E-06	7.59E-06	515	507
KLHL12	0.20793907	1.94E-06	7.66E-06	515	515
KARS	0.20789221	1.95E-06	7.70E-06	515	515
EIF3E	0.20781565	1.97E-06	7.76E-06	515	515
ASXL2	0.20781114	1.97E-06	7.76E-06	515	515
SENP2	0.20774379	1.98E-06	7.82E-06	515	515
HIST1H2B	0.20763665	2.01E-06	7.91E-06	515	515
AMMECR1	0.20750781	2.04E-06	8.03E-06	515	515
PCNA	0.20748118	2.05E-06	8.05E-06	515	515
XRCC6	0.20739831	2.07E-06	8.12E-06	515	515
COX5A	0.2073828	2.07E-06	8.13E-06	515	515
SLC39A1	0.20731199	2.09E-06	8.20E-06	515	515
BMPR1A	0.20728111	2.09E-06	8.22E-06	515	515
FO XK2	0.20719505	2.11E-06	8.30E-06	515	515
CHD7	0.20718696	2.12E-06	8.30E-06	515	515
PPP1R14B	0.20692259	2.18E-06	8.55E-06	515	515
C3orf33	0.20681885	2.21E-06	8.64E-06	515	515
C4orf14	0.20674914	2.23E-06	8.70E-06	515	515
RINT1	0.20668279	2.24E-06	8.76E-06	515	515
PHF20L1	0.20667928	2.24E-06	8.76E-06	515	515
NETO2	0.20657667	2.27E-06	8.86E-06	515	515
ACACA	0.20649621	2.29E-06	8.94E-06	515	515
LRRC58	0.20643867	2.31E-06	8.99E-06	515	515
CENPK	0.20640022	2.32E-06	9.03E-06	515	515
TAF9	0.20632775	2.34E-06	9.10E-06	515	515
BCL9	0.20631841	2.34E-06	9.11E-06	515	515
NPW	0.2061321	2.39E-06	9.30E-06	515	496
GGCT	0.2061038	2.40E-06	9.33E-06	515	515
HRSP12	0.20609938	2.40E-06	9.33E-06	515	515
TSFM	0.20608091	2.40E-06	9.35E-06	515	515
WDYHV1	0.20606915	2.41E-06	9.36E-06	515	515
C2orf16	0.20606346	2.41E-06	9.37E-06	515	515
SNX27	0.20606195	2.41E-06	9.37E-06	515	515
VDAC3	0.20591422	2.45E-06	9.51E-06	515	515
SMARCA1	0.20574688	2.50E-06	9.69E-06	515	515
LOC72397	0.20567108	2.52E-06	9.77E-06	515	515
ICT1	0.20564641	2.53E-06	9.80E-06	515	515
RAET1G	0.20555317	2.55E-06	9.89E-06	515	506
PKMYT1	0.20549475	2.57E-06	9.95E-06	515	515
RABIF	0.20541945	2.59E-06	1.00E-05	515	515
CATSPER2	0.20537682	2.61E-06	1.01E-05	515	515
STYX	0.20530122	2.63E-06	1.02E-05	515	515
LOC10013	0.20511603	2.69E-06	1.04E-05	515	512
ARG2	0.20485794	2.77E-06	1.06E-05	515	515

ADNP2	0.20481153	2.78E-06	1.07E-05	515	515
ATP13A3	0.20451803	2.88E-06	1.10E-05	515	515
PPP2R2C	0.20449327	2.88E-06	1.10E-05	515	511
RBL1	0.20445677	2.90E-06	1.11E-05	515	515
CNP	0.20410831	3.01E-06	1.15E-05	515	515
HELB	0.204105	3.01E-06	1.15E-05	515	515
NBPF6	0.20410469	3.01E-06	1.15E-05	515	71
ADSSL1	0.20405367	3.03E-06	1.16E-05	515	515
CDK17	0.20402321	3.04E-06	1.16E-05	515	515
SPC24	0.20398542	3.06E-06	1.16E-05	515	512
MRPL1	0.20390745	3.08E-06	1.17E-05	515	515
BARX1	0.20388711	3.09E-06	1.18E-05	515	457
CGREF1	0.2038001	3.12E-06	1.19E-05	515	515
C7orf49	0.2037874	3.12E-06	1.19E-05	515	515
AP1S3	0.20361951	3.18E-06	1.21E-05	515	515
EIF4G1	0.20356759	3.20E-06	1.22E-05	515	515
CIRH1A	0.20355147	3.21E-06	1.22E-05	515	515
RBM47	0.20347907	3.24E-06	1.23E-05	515	515
C15orf44	0.20346496	3.24E-06	1.23E-05	515	515
FAM10A4	0.20343749	3.25E-06	1.23E-05	515	515
DHCR7	0.20342437	3.26E-06	1.23E-05	515	515
C17orf96	0.20334078	3.29E-06	1.24E-05	515	515
SKA2	0.20327255	3.31E-06	1.25E-05	515	515
VPS25	0.20326707	3.31E-06	1.25E-05	515	515
RAD50	0.20313446	3.36E-06	1.27E-05	515	515
NACAP1	0.20301845	3.41E-06	1.29E-05	515	515
MED20	0.20288529	3.46E-06	1.31E-05	515	515
CRNKL1	0.20272978	3.52E-06	1.33E-05	515	515
ZW10	0.20270642	3.53E-06	1.33E-05	515	515
HNRNPA1	0.20269266	3.54E-06	1.33E-05	515	515
PTP4A2	0.20260842	3.57E-06	1.34E-05	515	515
TATDN1	0.20252131	3.61E-06	1.36E-05	515	515
ANO10	0.20251576	3.61E-06	1.36E-05	515	515
DNMT3B	0.20250926	3.61E-06	1.36E-05	515	515
CALM2	0.20212872	3.77E-06	1.42E-05	515	515
CBX2	0.20208678	3.79E-06	1.42E-05	515	515
ELOVL6	0.20199084	3.83E-06	1.44E-05	515	515
MRPS12	0.20186535	3.88E-06	1.46E-05	515	515
KIAA1161	0.20182761	3.90E-06	1.46E-05	515	515
COQ10B	0.20175816	3.93E-06	1.47E-05	515	515
TMEM65	0.20172478	3.94E-06	1.48E-05	515	515
LOC90784	0.20172213	3.95E-06	1.48E-05	515	515
SF3B4	0.20160245	4.00E-06	1.50E-05	515	515
DEPDC4	0.2015867	4.01E-06	1.50E-05	515	515

POMP	0.20152278	4.04E-06	1.51E-05	515	515
PIGC	0.20145502	4.07E-06	1.52E-05	515	515
SEC24B	0.20136925	4.11E-06	1.53E-05	515	515
CEBPG	0.20130188	4.14E-06	1.54E-05	515	515
UBE2Z	0.20128329	4.15E-06	1.55E-05	515	515
PAFAH1B3	0.20123817	4.17E-06	1.55E-05	515	515
LOC28646	0.20116795	4.20E-06	1.56E-05	515	482
GTF3C4	0.2011243	4.22E-06	1.57E-05	515	515
PPPDE2	0.20107214	4.24E-06	1.58E-05	515	515
ANXA7	0.20107004	4.25E-06	1.58E-05	515	515
MST4	0.20098836	4.28E-06	1.59E-05	515	515
ATXN2	0.20097526	4.29E-06	1.59E-05	515	515
PRRC1	0.20096131	4.30E-06	1.60E-05	515	515
THOC4	0.20086745	4.34E-06	1.61E-05	515	515
GNL3L	0.20079637	4.38E-06	1.62E-05	515	515
GOLM1	0.20079561	4.38E-06	1.62E-05	515	515
LRRC42	0.20074719	4.40E-06	1.63E-05	515	515
PRR19	0.20062948	4.46E-06	1.65E-05	515	515
ASNS	0.20061458	4.47E-06	1.66E-05	515	515
CEP350	0.20059056	4.48E-06	1.66E-05	515	515
PGAM1	0.20058024	4.49E-06	1.66E-05	515	515
WARS2	0.20056681	4.49E-06	1.66E-05	515	515
WHSC1	0.20055702	4.50E-06	1.66E-05	515	515
SLC12A8	0.20035896	4.60E-06	1.70E-05	515	515
CRK	0.20033772	4.61E-06	1.70E-05	515	515
PTDSS1	0.20029581	4.63E-06	1.71E-05	515	515
ZAK	0.20022595	4.67E-06	1.72E-05	515	515
APOO	0.20016123	4.70E-06	1.73E-05	515	515
AGL	0.20016001	4.70E-06	1.73E-05	515	515
SNAPC3	0.20015073	4.71E-06	1.73E-05	515	515
RHOQ	0.2001431	4.71E-06	1.74E-05	515	515
KIAA1958	0.20012863	4.72E-06	1.74E-05	515	515

Supplementary Table 2B Co-expressed genes negatively associated with MRPL19

Query	Statistic	P-value	FDR (BH)	Event_SD	Event_TD
CBX7	-0.53606	1.19E-39	1.26E-36	515	515
LOC72839	-0.50351	1.87E-34	1.04E-31	515	515
TNFRSF14	-0.49006	1.82E-32	8.26E-30	515	515
CIRBP	-0.48874	2.81E-32	1.25E-29	515	515
MAP3K3	-0.48227	2.35E-31	8.87E-29	515	515
ZNF763	-0.4821	2.48E-31	9.18E-29	515	515
GAB3	-0.47858	7.73E-31	2.80E-28	515	515
UBXN11	-0.47364	3.71E-30	1.24E-27	515	515
LOC11511	-0.47228	5.70E-30	1.87E-27	515	515
TSPAN32	-0.46954	1.34E-29	4.26E-27	515	514
LTC4S	-0.46944	1.38E-29	4.31E-27	515	513
ATG16L2	-0.46822	2.02E-29	5.85E-27	515	515
IL11RA	-0.466	4.01E-29	1.13E-26	515	515
CAPN3	-0.46585	4.20E-29	1.17E-26	515	515
SLC25A34	-0.46265	1.12E-28	2.97E-26	515	515
GAS6	-0.46218	1.29E-28	3.38E-26	515	515
PIK3IP1	-0.4571	5.95E-28	1.38E-25	515	515
HLA-DPB1	-0.45389	1.54E-27	3.42E-25	515	515
LYL1	-0.4538	1.58E-27	3.48E-25	515	515
DPEP2	-0.45351	1.72E-27	3.66E-25	515	515
C16orf54	-0.44828	7.97E-27	1.58E-24	515	515
PARVG	-0.44778	9.20E-27	1.77E-24	515	515
SFI1	-0.44599	1.54E-26	2.88E-24	515	515
APBB3	-0.4451	1.99E-26	3.60E-24	515	515
RASGRP2	-0.44509	2.00E-26	3.60E-24	515	515
GGA2	-0.44485	2.14E-26	3.82E-24	515	515
TREML1	-0.44402	2.72E-26	4.76E-24	515	485
CCDC159	-0.44394	2.78E-26	4.84E-24	515	515
C21orf2	-0.44361	3.05E-26	5.26E-24	515	515
PRCD	-0.44263	4.04E-26	6.73E-24	515	515
AGXT2L2	-0.4423	4.43E-26	7.26E-24	515	515
PPM1M	-0.44211	4.68E-26	7.54E-24	515	515
ABTB1	-0.44174	5.21E-26	8.33E-24	515	515
FGD3	-0.4374	1.77E-25	2.71E-23	515	515
SPSB3	-0.43721	1.87E-25	2.83E-23	515	515
UBA7	-0.43696	2.00E-25	2.98E-23	515	515
CD74	-0.43658	2.22E-25	3.27E-23	515	515
N4BP2L1	-0.43419	4.32E-25	6.08E-23	515	515
AMICA1	-0.43404	4.49E-25	6.24E-23	515	515
MICAL1	-0.43398	4.57E-25	6.29E-23	515	515
TFEB	-0.43397	4.59E-25	6.29E-23	515	515

SPAG8	-0.43365	5.01E-25	6.76E-23	515	512
FCHSD1	-0.43302	5.96E-25	7.84E-23	515	515
MTMR9L	-0.43183	8.28E-25	1.07E-22	515	515
BZRAP1	-0.43156	8.92E-25	1.13E-22	515	515
NLRP1	-0.43138	9.37E-25	1.18E-22	515	515
SH2B1	-0.43099	1.04E-24	1.30E-22	515	515
HLA-DMA	-0.4301	1.33E-24	1.65E-22	515	515
IFFO1	-0.42988	1.41E-24	1.74E-22	515	515
FLJ10357	-0.42765	2.58E-24	3.07E-22	515	515
ST6GALNA	-0.42657	3.46E-24	4.02E-22	515	515
ZBTB48	-0.42607	3.96E-24	4.58E-22	515	515
TMEM8B	-0.42548	4.65E-24	5.28E-22	515	515
LCAT	-0.42536	4.79E-24	5.41E-22	515	515
CALCOCO	-0.42531	4.86E-24	5.45E-22	515	515
TNNI2	-0.42507	5.18E-24	5.78E-22	515	509
CCDC88B	-0.42505	5.21E-24	5.78E-22	515	515
APOB48R	-0.42465	5.80E-24	6.40E-22	515	515
C16orf93	-0.42413	6.66E-24	7.20E-22	515	515
ZNF688	-0.42328	8.37E-24	8.90E-22	515	515
FLT3LG	-0.42298	9.07E-24	9.55E-22	515	515
DAPK2	-0.42263	9.95E-24	1.04E-21	515	515
C16orf86	-0.42244	1.05E-23	1.09E-21	515	515
CCDC130	-0.42213	1.14E-23	1.17E-21	515	515
C10orf105	-0.42152	1.34E-23	1.36E-21	515	503
ST3GAL6	-0.42092	1.57E-23	1.57E-21	515	515
POU6F1	-0.42013	1.93E-23	1.92E-21	515	515
SLC27A1	-0.4198	2.11E-23	2.09E-21	515	515
ROGDI	-0.41973	2.15E-23	2.12E-21	515	515
ZNF441	-0.41908	2.55E-23	2.47E-21	515	515
EVL	-0.41896	2.63E-23	2.54E-21	515	515
PRAM1	-0.41869	2.83E-23	2.71E-21	515	515
C18orf1	-0.41787	3.50E-23	3.30E-21	515	515
FGD2	-0.41749	3.87E-23	3.60E-21	515	515
GSN	-0.41732	4.04E-23	3.74E-21	515	515
LSP1	-0.41659	4.89E-23	4.46E-21	515	515
CD37	-0.4162	5.41E-23	4.92E-21	515	515
HCG26	-0.41603	5.65E-23	5.09E-21	515	515
FAM193B	-0.4142	9.11E-23	7.95E-21	515	515
HMHA1	-0.41383	1.00E-22	8.70E-21	515	515
ANGPTL6	-0.41337	1.13E-22	9.77E-21	515	507
CELF6	-0.41231	1.48E-22	1.27E-20	515	515
PTCH2	-0.41137	1.89E-22	1.59E-20	515	513
C14orf139	-0.41131	1.92E-22	1.61E-20	515	515
LIMS2	-0.41061	2.29E-22	1.91E-20	515	515

RALGDS	-0.41025	2.51E-22	2.06E-20	515	515
TREX1	-0.40937	3.15E-22	2.54E-20	515	515
ZNF700	-0.40842	4.01E-22	3.20E-20	515	515
C11orf21	-0.40836	4.06E-22	3.24E-20	515	513
GIMAP1	-0.40829	4.14E-22	3.29E-20	515	515
HLA-J	-0.40819	4.24E-22	3.35E-20	515	514
JMJD7-PL	-0.40747	5.10E-22	3.97E-20	515	515
TUBGCP6	-0.40713	5.55E-22	4.28E-20	515	515
ZMYND15	-0.40706	5.65E-22	4.34E-20	515	515
C1QTNF2	-0.40567	8.02E-22	6.05E-20	515	515
DOK2	-0.40544	8.50E-22	6.34E-20	515	515
TTC16	-0.40455	1.06E-21	7.83E-20	515	505
VMAC	-0.40374	1.30E-21	9.52E-20	515	515
NFIX	-0.40294	1.59E-21	1.16E-19	515	515
HLA-DOA	-0.40197	2.02E-21	1.46E-19	515	515
ANKRD10	-0.40147	2.29E-21	1.64E-19	515	515
TTLL3	-0.40135	2.36E-21	1.67E-19	515	515
ABCA10	-0.40069	2.78E-21	1.95E-19	515	511
PBX4	-0.40057	2.86E-21	2.01E-19	515	515
PLCB2	-0.40024	3.10E-21	2.16E-19	515	515
C9orf139	-0.40021	3.13E-21	2.17E-19	515	504
SNAI3	-0.39958	3.66E-21	2.50E-19	515	515
CC2D2B	-0.39956	3.67E-21	2.51E-19	515	503
MEGF6	-0.39952	3.71E-21	2.52E-19	515	515
NCF4	-0.39896	4.25E-21	2.87E-19	515	515
HLA-DRB1	-0.39752	6.05E-21	4.05E-19	515	515
CIITA	-0.39749	6.11E-21	4.07E-19	515	515
DDX26B	-0.39729	6.41E-21	4.25E-19	515	515
ZNF266	-0.39666	7.49E-21	4.92E-19	515	515
PTPN18	-0.39625	8.27E-21	5.40E-19	515	515
C5orf56	-0.39539	1.02E-20	6.60E-19	515	515
TEF	-0.39528	1.05E-20	6.74E-19	515	515
MOBKL2C	-0.39527	1.05E-20	6.74E-19	515	515
ARRB2	-0.39501	1.12E-20	7.16E-19	515	515
SYNPO	-0.39483	1.17E-20	7.45E-19	515	515
KCNAB2	-0.39448	1.27E-20	8.01E-19	515	515
TNFSF12	-0.39405	1.41E-20	8.85E-19	515	515
GYPC	-0.39377	1.51E-20	9.41E-19	515	515
MYO1F	-0.39348	1.62E-20	1.00E-18	515	515
ZNF439	-0.39329	1.69E-20	1.05E-18	515	515
HLA-DPA1	-0.39272	1.94E-20	1.19E-18	515	515
PIK3R6	-0.39261	2.00E-20	1.22E-18	515	515
STK11	-0.3924	2.10E-20	1.28E-18	515	515
FERMT3	-0.39226	2.17E-20	1.31E-18	515	515

RASGRP4	-0.39223	2.19E-20	1.32E-18	515	515
TTLL9	-0.39196	2.33E-20	1.40E-18	515	515
SLC27A3	-0.39184	2.40E-20	1.44E-18	515	515
BTN2A2	-0.39166	2.50E-20	1.49E-18	515	515
CCDC146	-0.39135	2.70E-20	1.60E-18	515	515
SLC39A13	-0.39107	2.88E-20	1.70E-18	515	515
AMY2B	-0.39105	2.90E-20	1.71E-18	515	515
VENTX	-0.39067	3.18E-20	1.86E-18	515	515
NAPSB	-0.39045	3.35E-20	1.95E-18	515	515
ARHGAP3	-0.39034	3.43E-20	2.00E-18	515	515
KLHDC1	-0.39002	3.71E-20	2.15E-18	515	515
SPNS3	-0.3897	4.01E-20	2.30E-18	515	509
POPDC2	-0.38941	4.30E-20	2.45E-18	515	515
RNASE1	-0.38931	4.39E-20	2.49E-18	515	515
PSTPIP1	-0.38907	4.65E-20	2.63E-18	515	515
KIAA1529	-0.38895	4.79E-20	2.70E-18	515	515
SH2D3C	-0.38859	5.22E-20	2.94E-18	515	515
EML3	-0.38854	5.28E-20	2.96E-18	515	515
CACNB1	-0.38784	6.23E-20	3.47E-18	515	515
NPFF	-0.38761	6.57E-20	3.63E-18	515	510
TBC1D10C	-0.38701	7.58E-20	4.14E-18	515	515
CORO7	-0.38695	7.68E-20	4.18E-18	515	515
TRIM22	-0.38695	7.69E-20	4.18E-18	515	515
CLEC4F	-0.38683	7.91E-20	4.27E-18	515	477
C10orf54	-0.3868	7.96E-20	4.29E-18	515	515
RFX2	-0.38659	8.37E-20	4.48E-18	515	515
C11orf66	-0.38655	8.45E-20	4.51E-18	515	513
EPHB6	-0.38642	8.71E-20	4.64E-18	515	515
ADRB2	-0.38609	9.40E-20	4.98E-18	515	515
ADAMTSL	-0.38575	1.02E-19	5.38E-18	515	515
GHRL	-0.38572	1.03E-19	5.39E-18	515	505
KIAA0247	-0.38571	1.03E-19	5.39E-18	515	515
PTCRA	-0.38555	1.07E-19	5.59E-18	515	499
ZNF563	-0.38546	1.09E-19	5.69E-18	515	515
MFNG	-0.38503	1.21E-19	6.29E-18	515	515
FITM1	-0.38492	1.24E-19	6.42E-18	515	506
TRPC2	-0.38471	1.30E-19	6.74E-18	515	456
MUSTN1	-0.38444	1.39E-19	7.14E-18	515	514
HLA-DMB	-0.38432	1.42E-19	7.30E-18	515	515
CDH23	-0.38418	1.47E-19	7.49E-18	515	515
GIPR	-0.38398	1.54E-19	7.80E-18	515	513
SLC15A3	-0.3839	1.57E-19	7.94E-18	515	515
NAALADL	-0.38387	1.59E-19	7.95E-18	515	515
FXYP1	-0.38386	1.59E-19	7.95E-18	515	501

SLC25A29	-0.38384	1.59E-19	7.97E-18	515	515
GTF2IRD2	-0.38371	1.64E-19	8.19E-18	515	515
IL16	-0.38367	1.66E-19	8.24E-18	515	515
KLHL33	-0.38335	1.79E-19	8.84E-18	515	366
GNMT	-0.38311	1.89E-19	9.29E-18	515	507
KANK3	-0.38311	1.89E-19	9.29E-18	515	515
LY86	-0.38274	2.06E-19	1.01E-17	515	515
FUT7	-0.38247	2.19E-19	1.07E-17	515	515
SELPLG	-0.38244	2.21E-19	1.07E-17	515	515
HLA-DRA	-0.38237	2.25E-19	1.08E-17	515	515
ARHGAP9	-0.38224	2.32E-19	1.12E-17	515	515
FAM116B	-0.38217	2.35E-19	1.13E-17	515	515
SPI1	-0.38204	2.43E-19	1.16E-17	515	515
ZNF540	-0.38195	2.47E-19	1.18E-17	515	515
LCNL1	-0.38186	2.53E-19	1.20E-17	515	428
SCN4B	-0.38151	2.74E-19	1.30E-17	515	515
RAI2	-0.38143	2.79E-19	1.32E-17	515	515
RNF166	-0.3811	3.01E-19	1.41E-17	515	515
CLK4	-0.38079	3.24E-19	1.50E-17	515	515
SFRS5	-0.38055	3.42E-19	1.57E-17	515	515
C1orf63	-0.38033	3.60E-19	1.65E-17	515	515
LOC10013	-0.37992	3.96E-19	1.81E-17	515	515
COLQ	-0.37983	4.04E-19	1.84E-17	515	515
OSCAR	-0.37941	4.45E-19	2.01E-17	515	515
GPSM3	-0.37941	4.45E-19	2.01E-17	515	515
PGPEP1	-0.37917	4.71E-19	2.12E-17	515	515
CTSH	-0.37907	4.82E-19	2.16E-17	515	515
EMR4P	-0.37871	5.23E-19	2.32E-17	515	512
RILPL2	-0.37866	5.29E-19	2.35E-17	515	515
LTBP4	-0.37853	5.45E-19	2.41E-17	515	515
ABCD4	-0.37808	6.04E-19	2.65E-17	515	515
RTN4RL1	-0.37786	6.35E-19	2.77E-17	515	515
SCARF1	-0.37768	6.62E-19	2.88E-17	515	515
RGS9	-0.3773	7.22E-19	3.13E-17	515	514
PRRT2	-0.37724	7.31E-19	3.16E-17	515	515
PTK2B	-0.37698	7.77E-19	3.35E-17	515	515
HPGDS	-0.37666	8.35E-19	3.59E-17	515	515
CD33	-0.37648	8.70E-19	3.73E-17	515	515
GPR146	-0.37637	8.92E-19	3.82E-17	515	515
NCRNA00	-0.37636	8.93E-19	3.82E-17	515	515
SEC31B	-0.37618	9.32E-19	3.96E-17	515	515
GTF2IRD2	-0.37615	9.38E-19	3.98E-17	515	515
C11orf93	-0.37602	9.65E-19	4.09E-17	515	514
CHST5	-0.37583	1.01E-18	4.26E-17	515	487

CUBN	-0.37564	1.05E-18	4.43E-17	515	515
METTL7A	-0.37547	1.09E-18	4.58E-17	515	515
TESK2	-0.37544	1.10E-18	4.61E-17	515	515
FGR	-0.37537	1.12E-18	4.68E-17	515	515
C5orf45	-0.37515	1.18E-18	4.89E-17	515	515
ANKRD58	-0.37482	1.27E-18	5.24E-17	515	514
ACSM5	-0.37473	1.30E-18	5.35E-17	515	494
PLD4	-0.37469	1.31E-18	5.38E-17	515	515
ADAMTS1	-0.37465	1.32E-18	5.42E-17	515	515
FAM13B	-0.37419	1.46E-18	5.98E-17	515	515
C11orf92	-0.37412	1.48E-18	6.05E-17	515	515
PRICKLE4	-0.37379	1.60E-18	6.48E-17	515	515
FBXL12	-0.37379	1.60E-18	6.48E-17	515	515
TNFAIP8L2	-0.37371	1.63E-18	6.58E-17	515	515
CYP27A1	-0.37364	1.66E-18	6.66E-17	515	515
ARFRP1	-0.37352	1.70E-18	6.83E-17	515	515
LGALS9	-0.37336	1.76E-18	7.07E-17	515	515
CNTFR	-0.37302	1.90E-18	7.57E-17	515	435
ZNF177	-0.37286	1.97E-18	7.82E-17	515	515
OTOA	-0.3728	2.00E-18	7.91E-17	515	514
PATL2	-0.37275	2.02E-18	7.98E-17	515	514
JPH4	-0.37254	2.12E-18	8.36E-17	515	513
SGCA	-0.37218	2.30E-18	9.04E-17	515	513
NDRG2	-0.37184	2.48E-18	9.70E-17	515	515
C3orf42	-0.37152	2.66E-18	1.04E-16	515	513
PLAC9	-0.37123	2.84E-18	1.11E-16	515	514
IL34	-0.37097	3.01E-18	1.17E-16	515	513
C19orf66	-0.37074	3.18E-18	1.23E-16	515	515
GNG7	-0.37056	3.30E-18	1.27E-16	515	515
LOC28366	-0.37042	3.41E-18	1.31E-16	515	515
STAT5A	-0.37042	3.41E-18	1.31E-16	515	515
PLEKHM1P	-0.3703	3.50E-18	1.33E-16	515	515
HLA-DQB	-0.37022	3.56E-18	1.35E-16	515	515
PDLIM2	-0.37009	3.67E-18	1.39E-16	515	515
TMEM90A	-0.36994	3.79E-18	1.43E-16	515	498
ARHGAP2	-0.36972	3.98E-18	1.50E-16	515	515
CROCC	-0.36942	4.26E-18	1.60E-16	515	515
ALOX5	-0.36924	4.43E-18	1.66E-16	515	515
TNFSF13	-0.36901	4.66E-18	1.74E-16	515	515
HSFX2	-0.36892	4.76E-18	1.77E-16	515	515
SPN	-0.3689	4.78E-18	1.77E-16	515	515
FAM113A	-0.36874	4.95E-18	1.83E-16	515	515
CD83	-0.3687	4.99E-18	1.84E-16	515	515
DUSP26	-0.36863	5.07E-18	1.86E-16	515	504

PRMT2	-0.3685	5.22E-18	1.91E-16	515	515
LRP2BP	-0.36849	5.24E-18	1.91E-16	515	515
NXF1	-0.36848	5.24E-18	1.91E-16	515	515
ADAMTS8	-0.36844	5.29E-18	1.93E-16	515	514
CD300LF	-0.36839	5.34E-18	1.94E-16	515	515
CORO1A	-0.36838	5.36E-18	1.94E-16	515	515
MAN1C1	-0.36828	5.47E-18	1.98E-16	515	515
CA3	-0.36812	5.68E-18	2.05E-16	515	514
C16orf48	-0.3681	5.71E-18	2.06E-16	515	515
USHBP1	-0.36807	5.73E-18	2.07E-16	515	515
RNF175	-0.36797	5.87E-18	2.11E-16	515	512
SETDB2	-0.36792	5.93E-18	2.13E-16	515	515
CCDC101	-0.36757	6.41E-18	2.29E-16	515	515
C11orf61	-0.36745	6.59E-18	2.35E-16	515	515
LRRC36	-0.36739	6.67E-18	2.37E-16	515	511
HLA-DRB5	-0.36739	6.68E-18	2.37E-16	515	515
S1PR4	-0.36738	6.69E-18	2.38E-16	515	515
WAS	-0.36703	7.22E-18	2.56E-16	515	515
VIM	-0.36689	7.44E-18	2.63E-16	515	515
ZNF862	-0.36681	7.57E-18	2.67E-16	515	515
RTN1	-0.36657	7.99E-18	2.81E-16	515	515
LOC91450	-0.36639	8.32E-18	2.91E-16	515	505
CRHBP	-0.36631	8.47E-18	2.96E-16	515	470
PHF1	-0.36608	8.90E-18	3.10E-16	515	515
CARD8	-0.36607	8.92E-18	3.10E-16	515	515
PHKG1	-0.36589	9.27E-18	3.21E-16	515	500
HAAO	-0.3656	9.88E-18	3.41E-16	515	515
TRAF1	-0.36533	1.05E-17	3.60E-16	515	515
ARGLU1	-0.36516	1.09E-17	3.73E-16	515	515
ITGB2	-0.36499	1.13E-17	3.85E-16	515	515
CACNA2D	-0.36491	1.15E-17	3.91E-16	515	515
INPP5B	-0.3649	1.15E-17	3.91E-16	515	515
CADPS	-0.36488	1.16E-17	3.92E-16	515	494
PRSS36	-0.36482	1.17E-17	3.97E-16	515	514
FLJ11235	-0.3648	1.18E-17	3.98E-16	515	514
CRY2	-0.3647	1.20E-17	4.05E-16	515	515
HCG27	-0.36468	1.21E-17	4.06E-16	515	515
CYTH4	-0.36436	1.30E-17	4.34E-16	515	515
DNM2	-0.36423	1.33E-17	4.45E-16	515	515
AGAP11	-0.36421	1.34E-17	4.45E-16	515	513
VWA3A	-0.36421	1.34E-17	4.45E-16	515	470
MFAP4	-0.36412	1.37E-17	4.53E-16	515	515
TTC21A	-0.36406	1.38E-17	4.58E-16	515	515
C3orf47	-0.36404	1.39E-17	4.60E-16	515	515

TBC1D17	-0.36389	1.44E-17	4.73E-16	515	515
ACTN2	-0.36358	1.54E-17	5.04E-16	515	500
RASAL3	-0.36321	1.67E-17	5.44E-16	515	515
NISCH	-0.36311	1.70E-17	5.54E-16	515	515
PPIEL	-0.36301	1.74E-17	5.66E-16	515	515
SIGLECP3	-0.36267	1.87E-17	6.05E-16	515	506
CD1C	-0.36254	1.93E-17	6.19E-16	515	515
FLJ42875	-0.36253	1.93E-17	6.20E-16	515	505
USP20	-0.36239	1.99E-17	6.38E-16	515	515
ZCCHC18	-0.36178	2.27E-17	7.26E-16	515	514
ZGLP1	-0.36173	2.29E-17	7.32E-16	515	515
JMJD5	-0.36152	2.40E-17	7.64E-16	515	515
MATK	-0.36148	2.42E-17	7.69E-16	515	515
CD22	-0.36141	2.46E-17	7.79E-16	515	515
NTRK3	-0.36136	2.49E-17	7.86E-16	515	507
CD1E	-0.36127	2.53E-17	7.98E-16	515	510
SLC25A42	-0.36125	2.54E-17	8.00E-16	515	515
PLK3	-0.36109	2.64E-17	8.28E-16	515	515
PIGQ	-0.36097	2.70E-17	8.47E-16	515	515
TCTEX1D4	-0.3607	2.87E-17	8.91E-16	515	497
PER3	-0.36059	2.94E-17	9.10E-16	515	515
C3orf54	-0.36039	3.07E-17	9.49E-16	515	515
ZNF564	-0.36008	3.28E-17	1.01E-15	515	515
HLX	-0.35999	3.34E-17	1.03E-15	515	515
RAB11FIP3	-0.35983	3.46E-17	1.06E-15	515	515
LST1	-0.35962	3.61E-17	1.11E-15	515	515
TPPP3	-0.3595	3.71E-17	1.14E-15	515	515
PPP1R3E	-0.35927	3.90E-17	1.19E-15	515	515
CD52	-0.35904	4.09E-17	1.25E-15	515	515
PHLDB1	-0.35889	4.23E-17	1.29E-15	515	515
CEMP1	-0.35848	4.61E-17	1.40E-15	515	515
ZNF846	-0.35842	4.68E-17	1.41E-15	515	515
PTGDS	-0.3583	4.79E-17	1.45E-15	515	515
GFI1B	-0.35826	4.84E-17	1.46E-15	515	407
CD82	-0.35824	4.85E-17	1.46E-15	515	515
C1orf228	-0.35794	5.18E-17	1.55E-15	515	514
PDE1B	-0.35791	5.21E-17	1.56E-15	515	515
TYK2	-0.35762	5.55E-17	1.65E-15	515	515
CCR6	-0.35741	5.80E-17	1.72E-15	515	515
GRASP	-0.35736	5.86E-17	1.74E-15	515	515
LOC28490	-0.3572	6.06E-17	1.79E-15	515	515
TNK2	-0.35698	6.36E-17	1.87E-15	515	515
HYI	-0.35694	6.41E-17	1.88E-15	515	515
FCGBP	-0.35688	6.49E-17	1.89E-15	515	515

CARD9	-0.35682	6.58E-17	1.91E-15	515	515
GMFG	-0.35655	6.97E-17	2.00E-15	515	515
DEF6	-0.35623	7.45E-17	2.13E-15	515	515
TRAF3IP3	-0.35607	7.71E-17	2.20E-15	515	515
OR52N4	-0.35599	7.83E-17	2.23E-15	515	410
TMEM222	-0.35594	7.93E-17	2.25E-15	515	515
ROM1	-0.35575	8.25E-17	2.34E-15	515	515
FAM73B	-0.35568	8.36E-17	2.37E-15	515	515
ACP5	-0.35554	8.62E-17	2.43E-15	515	515
BTK	-0.35501	9.64E-17	2.69E-15	515	515
RBM5	-0.35489	9.88E-17	2.76E-15	515	515
RCBTB2	-0.35487	9.93E-17	2.76E-15	515	515
IGFN1	-0.35473	1.02E-16	2.84E-15	515	461
ZNF211	-0.35449	1.08E-16	2.98E-15	515	515
LPXN	-0.35438	1.10E-16	3.04E-15	515	515
4-Sep	-0.35433	1.11E-16	3.06E-15	515	515
NFKBID	-0.35421	1.14E-16	3.13E-15	515	515
LY6G5C	-0.3542	1.14E-16	3.13E-15	515	515
RAPGEF3	-0.35402	1.19E-16	3.23E-15	515	515
HPS1	-0.354	1.19E-16	3.24E-15	515	515
PKD1	-0.35383	1.24E-16	3.35E-15	515	515
GPRASP1	-0.35357	1.31E-16	3.54E-15	515	515
RIPK3	-0.35293	1.49E-16	4.02E-15	515	515
C14orf73	-0.35288	1.51E-16	4.06E-15	515	505
CRYGS	-0.35286	1.52E-16	4.07E-15	515	514
GLIPR2	-0.35254	1.62E-16	4.33E-15	515	515
ZNF608	-0.35235	1.69E-16	4.49E-15	515	515
COLEC12	-0.35231	1.70E-16	4.52E-15	515	515
LOC33904	-0.35228	1.71E-16	4.54E-15	515	515
RASGRF1	-0.35198	1.82E-16	4.83E-15	515	515
RRAD	-0.35176	1.91E-16	5.05E-15	515	515
FCGRT	-0.35147	2.03E-16	5.33E-15	515	515
FAM179A	-0.35139	2.06E-16	5.41E-15	515	513
FAIM3	-0.35138	2.07E-16	5.41E-15	515	515
CYTH1	-0.35106	2.21E-16	5.77E-15	515	515
SCGB3A1	-0.35091	2.28E-16	5.93E-15	515	512
MGAT3	-0.35057	2.44E-16	6.34E-15	515	515
GPR162	-0.35051	2.48E-16	6.42E-15	515	515
DENND3	-0.35044	2.51E-16	6.50E-15	515	515
LRIT3	-0.35035	2.56E-16	6.62E-15	515	497
PTGER4	-0.35031	2.58E-16	6.65E-15	515	515
KANK2	-0.3502	2.64E-16	6.79E-15	515	515
SESN1	-0.35004	2.73E-16	7.00E-15	515	515
LMO2	-0.34999	2.76E-16	7.06E-15	515	515

RIC3	-0.34997	2.77E-16	7.09E-15	515	513
MYO9B	-0.34987	2.83E-16	7.22E-15	515	515
ITGAX	-0.34985	2.84E-16	7.24E-15	515	515
LTB	-0.34975	2.90E-16	7.38E-15	515	515
NFAM1	-0.34956	3.02E-16	7.65E-15	515	515
ZNF491	-0.34953	3.03E-16	7.69E-15	515	514
ABI3	-0.34932	3.17E-16	8.00E-15	515	515
CCDC114	-0.34932	3.17E-16	8.00E-15	515	514
SASH3	-0.34931	3.18E-16	8.00E-15	515	515
PIK3R5	-0.34925	3.21E-16	8.09E-15	515	515
PCP2	-0.34911	3.31E-16	8.31E-15	515	490
DLEC1	-0.34903	3.36E-16	8.43E-15	515	514
CARD16	-0.34891	3.45E-16	8.62E-15	515	515
TENC1	-0.34883	3.50E-16	8.75E-15	515	515
NFATC1	-0.3487	3.60E-16	8.99E-15	515	515
PI16	-0.34862	3.66E-16	9.13E-15	515	493
TMC8	-0.34861	3.67E-16	9.13E-15	515	515
FLYWCH1	-0.34858	3.69E-16	9.17E-15	515	515
BIRC7	-0.3485	3.75E-16	9.31E-15	515	512
CFP	-0.34845	3.79E-16	9.40E-15	515	515
CCDC30	-0.3483	3.91E-16	9.65E-15	515	515
MAPK10	-0.34821	3.99E-16	9.83E-15	515	515
CASP1	-0.34801	4.15E-16	1.02E-14	515	515
LAT	-0.34791	4.24E-16	1.04E-14	515	515
ANKS3	-0.34765	4.47E-16	1.10E-14	515	515
TMEM173	-0.34738	4.72E-16	1.16E-14	515	515
ANKK1	-0.34734	4.77E-16	1.16E-14	515	510
ARHGEF1	-0.34733	4.78E-16	1.17E-14	515	515
LIME1	-0.34729	4.81E-16	1.17E-14	515	515
WNT11	-0.34699	5.12E-16	1.25E-14	515	514
YPEL3	-0.34683	5.30E-16	1.28E-14	515	515
C10orf50	-0.34657	5.58E-16	1.35E-14	515	291
ZNF276	-0.34653	5.63E-16	1.36E-14	515	515
OXER1	-0.34617	6.05E-16	1.46E-14	515	515
CTSZ	-0.34613	6.10E-16	1.47E-14	515	515
C1QTNF7	-0.34595	6.34E-16	1.53E-14	515	515
NPIP	-0.34571	6.66E-16	1.60E-14	515	515
ROBO3	-0.34546	7.01E-16	1.68E-14	515	515
STK10	-0.34538	7.12E-16	1.70E-14	515	515
ZNF333	-0.34536	7.14E-16	1.70E-14	515	515
RAB24	-0.3453	7.23E-16	1.72E-14	515	515
MCOLN1	-0.34526	7.29E-16	1.73E-14	515	515
GMIP	-0.3451	7.53E-16	1.79E-14	515	515
FOLR2	-0.34508	7.57E-16	1.79E-14	515	515

CYP21A2	-0.34501	7.68E-16	1.82E-14	515	513
ICAM3	-0.3449	7.84E-16	1.85E-14	515	515
1-Sep	-0.34489	7.86E-16	1.85E-14	515	515
FAM156A	-0.34482	7.98E-16	1.88E-14	515	515
DNALI1	-0.3448	8.02E-16	1.88E-14	515	515
LBXCOR1	-0.34456	8.41E-16	1.97E-14	515	490
HR	-0.34441	8.67E-16	2.03E-14	515	514
DENND1C	-0.34425	8.97E-16	2.09E-14	515	515
TREM2	-0.34407	9.29E-16	2.17E-14	515	515
ACSS1	-0.34401	9.40E-16	2.18E-14	515	515
LOC14318	-0.34398	9.47E-16	2.20E-14	515	515
RASSF5	-0.34386	9.70E-16	2.25E-14	515	515
DENND2A	-0.34367	1.01E-15	2.33E-14	515	515
ELL	-0.34367	1.01E-15	2.33E-14	515	515
PION	-0.34351	1.04E-15	2.41E-14	515	515
CA5B	-0.34351	1.04E-15	2.41E-14	515	515
TXNIP	-0.34339	1.07E-15	2.45E-14	515	515
TEPP	-0.34338	1.07E-15	2.46E-14	515	439
KIAA0892	-0.34327	1.09E-15	2.51E-14	515	515
LOC80154	-0.34317	1.11E-15	2.56E-14	515	515
FAM180B	-0.3431	1.13E-15	2.59E-14	515	312
ZNF44	-0.34275	1.21E-15	2.76E-14	515	515
TOM1L2	-0.34266	1.24E-15	2.81E-14	515	515
CCDC157	-0.34255	1.26E-15	2.87E-14	515	514
GNAI2	-0.3424	1.30E-15	2.95E-14	515	515
C1orf133	-0.34236	1.31E-15	2.97E-14	515	514
KIAA0748	-0.34236	1.31E-15	2.97E-14	515	513
SNX29	-0.34225	1.34E-15	3.03E-14	515	515
KIAA0467	-0.34223	1.35E-15	3.04E-14	515	515
SUN2	-0.34211	1.38E-15	3.11E-14	515	515
WDTC1	-0.34201	1.41E-15	3.16E-14	515	515
ZNF671	-0.34198	1.42E-15	3.18E-14	515	515
FAM198A	-0.34191	1.44E-15	3.22E-14	515	515
CADM3	-0.34179	1.47E-15	3.29E-14	515	513
ARHGAP6	-0.34177	1.48E-15	3.31E-14	515	515
PLEKHM2	-0.34171	1.50E-15	3.34E-14	515	515
TLR2	-0.3417	1.50E-15	3.34E-14	515	515
MAP3K12	-0.34169	1.50E-15	3.34E-14	515	515
PLA2G15	-0.34169	1.50E-15	3.34E-14	515	515
TMEM175	-0.34143	1.59E-15	3.51E-14	515	515
TYROBP	-0.34136	1.61E-15	3.55E-14	515	515
MGP	-0.34132	1.62E-15	3.58E-14	515	515
ZNF69	-0.34125	1.64E-15	3.62E-14	515	515
ICAM5	-0.34122	1.65E-15	3.64E-14	515	514

C19orf44	-0.3411	1.69E-15	3.71E-14	515	515
NICN1	-0.34109	1.70E-15	3.72E-14	515	515
SORBS3	-0.34103	1.72E-15	3.76E-14	515	515
SLC37A2	-0.34067	1.84E-15	4.02E-14	515	515
CMTM7	-0.34059	1.88E-15	4.09E-14	515	515
ZNF83	-0.34052	1.90E-15	4.13E-14	515	515
OSBPL7	-0.34036	1.96E-15	4.26E-14	515	515
CLEC10A	-0.33987	2.17E-15	4.68E-14	515	515
DPYSL2	-0.33974	2.22E-15	4.78E-14	515	515
LOC14772	-0.33966	2.26E-15	4.85E-14	515	515
MASP2	-0.33941	2.38E-15	5.10E-14	515	514
FGD5	-0.33932	2.42E-15	5.17E-14	515	515
LOC92973	-0.33923	2.46E-15	5.25E-14	515	511
GSTM5	-0.33911	2.52E-15	5.38E-14	515	514
RHOT2	-0.33902	2.56E-15	5.46E-14	515	515
RPS6KA1	-0.339	2.57E-15	5.47E-14	515	515
TECTA	-0.33893	2.61E-15	5.55E-14	515	513
RASSF1	-0.33875	2.71E-15	5.72E-14	515	515
CD300C	-0.33859	2.79E-15	5.89E-14	515	515
ADHFE1	-0.33853	2.83E-15	5.95E-14	515	515
CBFA2T3	-0.33827	2.98E-15	6.26E-14	515	515
RNASE6	-0.33825	2.99E-15	6.28E-14	515	515
PDZD4	-0.33808	3.09E-15	6.48E-14	515	515
HCST	-0.33787	3.22E-15	6.73E-14	515	515
LOC28305	-0.33782	3.26E-15	6.80E-14	515	515
ZNF440	-0.33772	3.32E-15	6.92E-14	515	515
DOK3	-0.33753	3.45E-15	7.17E-14	515	515
PARP15	-0.33749	3.48E-15	7.22E-14	515	515
RENBP	-0.3374	3.54E-15	7.34E-14	515	515
GALNTL1	-0.3374	3.54E-15	7.34E-14	515	514
POM121L	-0.33737	3.56E-15	7.38E-14	515	515
C5orf20	-0.3371	3.76E-15	7.78E-14	515	508
RASSF4	-0.33702	3.82E-15	7.90E-14	515	515
LOC14688	-0.337	3.83E-15	7.91E-14	515	515
PPP1R12C	-0.33696	3.86E-15	7.95E-14	515	515
HLA-DQB	-0.33692	3.89E-15	8.00E-14	515	515
ZCCHC24	-0.33689	3.92E-15	8.04E-14	515	515
CX3CR1	-0.33674	4.04E-15	8.29E-14	515	515
ZMAT1	-0.33637	4.34E-15	8.86E-14	515	515
AP4B1	-0.33629	4.41E-15	8.98E-14	515	515
ZAP70	-0.33608	4.60E-15	9.33E-14	515	515
BTNL9	-0.33605	4.62E-15	9.37E-14	515	515
CNRIP1	-0.33599	4.68E-15	9.46E-14	515	515
C15orf17	-0.33593	4.74E-15	9.55E-14	515	515

FHL1	-0.33591	4.76E-15	9.57E-14	515	515
LMF2	-0.33585	4.81E-15	9.67E-14	515	515
ARMC5	-0.3358	4.86E-15	9.75E-14	515	515
LOC72826	-0.33578	4.88E-15	9.77E-14	515	515
HSPA7	-0.33578	4.88E-15	9.77E-14	515	515
PIK3CD	-0.33577	4.89E-15	9.77E-14	515	515
SLC9A3	-0.33568	4.98E-15	9.95E-14	515	461
C19orf25	-0.3356	5.05E-15	1.01E-13	515	515
ITGAL	-0.33556	5.10E-15	1.02E-13	515	515
TSPYL2	-0.33554	5.11E-15	1.02E-13	515	515
TRPV2	-0.33553	5.13E-15	1.02E-13	515	515
RRN3P2	-0.33551	5.14E-15	1.02E-13	515	515
FAM182B	-0.33518	5.49E-15	1.09E-13	515	514
GFRA1	-0.33502	5.67E-15	1.12E-13	515	514
FAM78A	-0.335	5.68E-15	1.12E-13	515	515
PTGIR	-0.33499	5.70E-15	1.12E-13	515	515
GGT3P	-0.33498	5.71E-15	1.12E-13	515	515
TSSK3	-0.33495	5.74E-15	1.13E-13	515	515
ARHGEF10	-0.33494	5.75E-15	1.13E-13	515	515
CYP4Z1	-0.33494	5.75E-15	1.13E-13	515	431
LOC64416	-0.3349	5.79E-15	1.14E-13	515	513
AKNA	-0.33486	5.85E-15	1.15E-13	515	515
LRMP	-0.33481	5.91E-15	1.16E-13	515	515
NDST2	-0.33479	5.93E-15	1.16E-13	515	515
CCDC116	-0.33474	5.98E-15	1.17E-13	515	477
LRCH4	-0.3346	6.15E-15	1.20E-13	515	515
BEND5	-0.33445	6.33E-15	1.23E-13	515	515
GCET2	-0.33439	6.41E-15	1.25E-13	515	515
TNXB	-0.33438	6.42E-15	1.25E-13	515	515
C15orf59	-0.33411	6.77E-15	1.31E-13	515	512
PLEKHH2	-0.33405	6.85E-15	1.33E-13	515	515
MMP23B	-0.33394	7.00E-15	1.35E-13	515	515
HLA-F	-0.33379	7.21E-15	1.39E-13	515	515
SLFN14	-0.3337	7.33E-15	1.41E-13	515	429
SLC12A4	-0.33361	7.47E-15	1.43E-13	515	515
KIAA1683	-0.33358	7.51E-15	1.44E-13	515	515
REM1	-0.33346	7.70E-15	1.47E-13	515	515
ARHGAP2	-0.33332	7.90E-15	1.51E-13	515	515
CASP12	-0.33314	8.19E-15	1.56E-13	515	449
NWD1	-0.33311	8.24E-15	1.57E-13	515	503
MUM1	-0.33297	8.46E-15	1.61E-13	515	515
MIA	-0.33296	8.47E-15	1.61E-13	515	483
RAB36	-0.33288	8.61E-15	1.63E-13	515	515
KAZ	-0.33272	8.88E-15	1.68E-13	515	515

C5orf38	-0.33263	9.05E-15	1.71E-13	515	512
TSPAN4	-0.33261	9.07E-15	1.71E-13	515	515
C20orf160	-0.33251	9.26E-15	1.74E-13	515	515
RANBP3	-0.33248	9.30E-15	1.75E-13	515	515
SGSM3	-0.33235	9.55E-15	1.79E-13	515	515
ZNF709	-0.33229	9.66E-15	1.81E-13	515	515
ABCA9	-0.33222	9.80E-15	1.83E-13	515	515
C3orf62	-0.3322	9.82E-15	1.83E-13	515	515
ZMYND10	-0.33216	9.91E-15	1.85E-13	515	515
MAPK8IP3	-0.33215	9.94E-15	1.85E-13	515	515
RRN3P1	-0.33212	9.98E-15	1.86E-13	515	515
LMF1	-0.33212	9.98E-15	1.86E-13	515	515
LOC91316	-0.33201	1.02E-14	1.89E-13	515	515
ENGASE	-0.33188	1.05E-14	1.94E-13	515	515
ARHGEF17	-0.3318	1.06E-14	1.97E-13	515	515
CCDC13	-0.33173	1.08E-14	1.99E-13	515	513
VSIG2	-0.33155	1.12E-14	2.05E-13	515	512
MS4A14	-0.33155	1.12E-14	2.05E-13	515	515
ZNF653	-0.33153	1.12E-14	2.06E-13	515	515
GOLGA8A	-0.33147	1.13E-14	2.08E-13	515	515
CCDC48	-0.3314	1.15E-14	2.11E-13	515	515
P2RX6	-0.33126	1.18E-14	2.16E-13	515	483
PLEKHO2	-0.33124	1.18E-14	2.17E-13	515	515
EFCAB6	-0.33123	1.19E-14	2.17E-13	515	514
IFT140	-0.33123	1.19E-14	2.17E-13	515	515
HLA-E	-0.33117	1.20E-14	2.19E-13	515	515
C7orf23	-0.331	1.24E-14	2.26E-13	515	515
GGTA1	-0.3309	1.26E-14	2.30E-13	515	515
SGCG	-0.33084	1.28E-14	2.33E-13	515	483
C16orf79	-0.33082	1.28E-14	2.33E-13	515	512
MOB2	-0.33067	1.32E-14	2.39E-13	515	515
FLJ10038	-0.33039	1.40E-14	2.52E-13	515	515
CCDC84	-0.33032	1.42E-14	2.55E-13	515	515
TCEAL2	-0.3302	1.45E-14	2.61E-13	515	507
TNFRSF13	-0.33017	1.46E-14	2.62E-13	515	508
PNPLA6	-0.33014	1.46E-14	2.63E-13	515	515
LOC28317	-0.32998	1.51E-14	2.71E-13	515	515
MYO15B	-0.32996	1.52E-14	2.72E-13	515	515
CCDC78	-0.32993	1.53E-14	2.73E-13	515	514
C1orf162	-0.32985	1.55E-14	2.77E-13	515	515
C17orf103	-0.32974	1.58E-14	2.83E-13	515	515
C3orf15	-0.3297	1.59E-14	2.85E-13	515	511
ACAP1	-0.32962	1.62E-14	2.89E-13	515	515
SSBP4	-0.32952	1.65E-14	2.94E-13	515	515

LOC28444	-0.3293	1.72E-14	3.05E-13	515	515
ISLR2	-0.32926	1.74E-14	3.07E-13	515	512
C20orf194	-0.32919	1.76E-14	3.11E-13	515	515
PLEKHA4	-0.32907	1.80E-14	3.18E-13	515	515
PNMAL2	-0.32892	1.85E-14	3.27E-13	515	514
TTC18	-0.32891	1.86E-14	3.27E-13	515	515
TPSB2	-0.32889	1.86E-14	3.28E-13	515	515
CCNL2	-0.32885	1.88E-14	3.30E-13	515	515
ZNF500	-0.32882	1.89E-14	3.32E-13	515	515
C14orf132	-0.3288	1.90E-14	3.33E-13	515	515
SAPS2	-0.32875	1.91E-14	3.35E-13	515	515
VASH1	-0.32869	1.94E-14	3.39E-13	515	515
MGC1670	-0.32862	1.96E-14	3.43E-13	515	480
C7orf57	-0.32862	1.96E-14	3.43E-13	515	508
SLC12A9	-0.3286	1.97E-14	3.44E-13	515	515
IRF8	-0.32858	1.98E-14	3.45E-13	515	515
CASQ1	-0.32847	2.02E-14	3.52E-13	515	484
CHKB-CPT	-0.32842	2.04E-14	3.55E-13	515	515
C14orf159	-0.32841	2.04E-14	3.55E-13	515	515
P2RX1	-0.32808	2.18E-14	3.77E-13	515	515
CCDC81	-0.32802	2.20E-14	3.82E-13	515	512
NHLRC4	-0.32786	2.27E-14	3.93E-13	515	515
MAST3	-0.32785	2.28E-14	3.93E-13	515	515
LGALS2	-0.32766	2.36E-14	4.07E-13	515	507
LOC10027	-0.32759	2.39E-14	4.12E-13	515	515
BLCAP	-0.32735	2.51E-14	4.31E-13	515	515
FAM159A	-0.3271	2.63E-14	4.51E-13	515	514
LRRC33	-0.32699	2.68E-14	4.58E-13	515	515
RGL4	-0.32676	2.80E-14	4.78E-13	515	512
LOC44089	-0.32665	2.86E-14	4.87E-13	515	366
C6orf70	-0.32661	2.88E-14	4.91E-13	515	515
RSPO1	-0.32649	2.95E-14	5.02E-13	515	488
TGFB1	-0.32643	2.98E-14	5.07E-13	515	515
CTSD	-0.32635	3.03E-14	5.14E-13	515	515
ADAM33	-0.32607	3.20E-14	5.41E-13	515	515
ARHGEF6	-0.32606	3.20E-14	5.41E-13	515	515
SOCS1	-0.32604	3.22E-14	5.43E-13	515	515
HLA-L	-0.32599	3.25E-14	5.48E-13	515	515
A4GNT	-0.32593	3.28E-14	5.53E-13	515	409
LOC10027	-0.32592	3.29E-14	5.54E-13	515	514
C4A	-0.32583	3.34E-14	5.63E-13	515	515
RORA	-0.32579	3.37E-14	5.67E-13	515	515
CD4	-0.32561	3.49E-14	5.85E-13	515	515
ALS2CR12	-0.32544	3.60E-14	6.05E-13	515	468

FBP1	-0.32542	3.62E-14	6.07E-13	515	515
NRIP2	-0.32523	3.75E-14	6.28E-13	515	515
TMEM204	-0.32509	3.85E-14	6.44E-13	515	515
NLRC3	-0.32507	3.86E-14	6.45E-13	515	515
MEOX1	-0.32505	3.88E-14	6.47E-13	515	514
SLC16A11	-0.32495	3.95E-14	6.58E-13	515	515
C1orf175	-0.32495	3.95E-14	6.58E-13	515	514
CD1D	-0.32494	3.96E-14	6.59E-13	515	515
LOC65378	-0.32485	4.03E-14	6.68E-13	515	502
CCDC37	-0.32477	4.09E-14	6.77E-13	515	411
KCNJ5	-0.32475	4.11E-14	6.79E-13	515	515
NOD1	-0.3246	4.23E-14	6.98E-13	515	515
C2orf40	-0.32459	4.23E-14	6.98E-13	515	479
TSLP	-0.32426	4.50E-14	7.39E-13	515	501
HIVEP3	-0.32425	4.51E-14	7.40E-13	515	515
EBF4	-0.32424	4.52E-14	7.41E-13	515	515
ZBTB47	-0.32417	4.58E-14	7.50E-13	515	515
SAP30L	-0.32408	4.66E-14	7.62E-13	515	515
UCP3	-0.324	4.73E-14	7.72E-13	515	514
PGR	-0.32396	4.76E-14	7.78E-13	515	515
NEIL1	-0.32396	4.77E-14	7.78E-13	515	515
CD40	-0.32392	4.80E-14	7.83E-13	515	515
ZNF767	-0.32374	4.97E-14	8.07E-13	515	515
LENG8	-0.3236	5.10E-14	8.25E-13	515	515
ZNF836	-0.32343	5.27E-14	8.48E-13	515	515
ERCC5	-0.32329	5.40E-14	8.70E-13	515	515
ELN	-0.32318	5.52E-14	8.87E-13	515	515
ACCS	-0.32317	5.53E-14	8.89E-13	515	515
RGS13	-0.32297	5.74E-14	9.19E-13	515	509
HDC	-0.3229	5.81E-14	9.30E-13	515	513
FCER1A	-0.32288	5.84E-14	9.32E-13	515	511
SLC9A9	-0.32264	6.11E-14	9.74E-13	515	515
ARHGDI3	-0.32253	6.24E-14	9.94E-13	515	515
COL13A1	-0.32238	6.41E-14	1.02E-12	515	515
ARVCF	-0.32233	6.48E-14	1.03E-12	515	515
TBX19	-0.32232	6.49E-14	1.03E-12	515	515
ZSCAN18	-0.32231	6.49E-14	1.03E-12	515	515
HLA-B	-0.32228	6.53E-14	1.04E-12	515	515
SYTL1	-0.32225	6.57E-14	1.04E-12	515	515
LRRC56	-0.32223	6.59E-14	1.04E-12	515	515
FHAD1	-0.32191	7.00E-14	1.11E-12	515	515
PLA2G4C	-0.32184	7.09E-14	1.12E-12	515	515
MKNK1	-0.32178	7.18E-14	1.13E-12	515	515
LOC22144	-0.32176	7.21E-14	1.13E-12	515	515

FLI1	-0.3217	7.29E-14	1.15E-12	515	515
LOC60672	-0.32161	7.41E-14	1.16E-12	515	515
ATP6V0A1	-0.32153	7.53E-14	1.18E-12	515	515
SCNN1D	-0.32149	7.57E-14	1.19E-12	515	514
PTPN6	-0.3214	7.71E-14	1.21E-12	515	515
MBL1P	-0.32132	7.83E-14	1.22E-12	515	510
NCRNA00	-0.32129	7.86E-14	1.23E-12	515	513
PPP2R5B	-0.32127	7.89E-14	1.23E-12	515	515
CST5	-0.32114	8.08E-14	1.26E-12	515	437
C10orf107	-0.32109	8.16E-14	1.27E-12	515	491
GRRP1	-0.32107	8.20E-14	1.28E-12	515	515
TLE4	-0.32101	8.29E-14	1.29E-12	515	515
ERMAP	-0.321	8.30E-14	1.29E-12	515	515
FGF14	-0.32092	8.42E-14	1.31E-12	515	515
BTN2A1	-0.32083	8.57E-14	1.33E-12	515	515
PVRIG	-0.32076	8.68E-14	1.34E-12	515	515
CYBASC3	-0.32073	8.74E-14	1.35E-12	515	515
ZRSR2	-0.32071	8.76E-14	1.35E-12	515	515
RNH1	-0.32064	8.88E-14	1.37E-12	515	515
KIAA0427	-0.32061	8.93E-14	1.38E-12	515	515
MYBPC3	-0.32024	9.56E-14	1.47E-12	515	440
ZDHHC15	-0.32022	9.61E-14	1.48E-12	515	515
VIP	-0.32021	9.61E-14	1.48E-12	515	425
FAM13AO	-0.32021	9.62E-14	1.48E-12	515	515
FCRL6	-0.32012	9.78E-14	1.50E-12	515	515
HEMK1	-0.32007	9.88E-14	1.51E-12	515	515
TEKT2	-0.31991	1.02E-13	1.56E-12	515	500
C2CD2L	-0.31991	1.02E-13	1.56E-12	515	515
ENG	-0.31988	1.02E-13	1.56E-12	515	515
GPR132	-0.31984	1.03E-13	1.57E-12	515	515
HCK	-0.31973	1.05E-13	1.60E-12	515	515
FAM76A	-0.31967	1.06E-13	1.62E-12	515	515
SEPW1	-0.31966	1.07E-13	1.62E-12	515	515
LOC64874	-0.31965	1.07E-13	1.62E-12	515	507
C5orf53	-0.31945	1.11E-13	1.68E-12	515	515
SERPINI2	-0.31943	1.11E-13	1.69E-12	515	376
INPP5D	-0.31939	1.12E-13	1.70E-12	515	515
NIPAL3	-0.31938	1.12E-13	1.70E-12	515	515
GPBAR1	-0.3193	1.14E-13	1.72E-12	515	515
COL9A2	-0.31918	1.17E-13	1.76E-12	515	515
P2RY13	-0.31916	1.17E-13	1.76E-12	515	515
WASH7P	-0.31876	1.26E-13	1.89E-12	515	515
CD1B	-0.31872	1.27E-13	1.90E-12	515	497
CMAH	-0.31859	1.30E-13	1.95E-12	515	515

CSAD	-0.31855	1.31E-13	1.96E-12	515	515
LOC40089	-0.31852	1.32E-13	1.97E-12	515	359
ZDHHC14	-0.31848	1.32E-13	1.98E-12	515	515
RGS11	-0.31843	1.34E-13	2.00E-12	515	515
BLK	-0.31842	1.34E-13	2.00E-12	515	510
C11orf68	-0.3182	1.40E-13	2.07E-12	515	515
TRIOBP	-0.31798	1.45E-13	2.16E-12	515	515
SNX20	-0.31797	1.46E-13	2.16E-12	515	515
C13orf18	-0.31791	1.47E-13	2.18E-12	515	515
MAN2B1	-0.31779	1.50E-13	2.22E-12	515	515
P2RY12	-0.31779	1.51E-13	2.22E-12	515	506
CHN2	-0.31778	1.51E-13	2.22E-12	515	515
ITIH5	-0.31738	1.62E-13	2.39E-12	515	515
ZNF20	-0.3173	1.65E-13	2.42E-12	515	515
ZMYM6	-0.31723	1.67E-13	2.45E-12	515	515
SARM1	-0.31701	1.74E-13	2.54E-12	515	515
CCDC61	-0.31701	1.74E-13	2.54E-12	515	515
LOC39059	-0.31698	1.75E-13	2.55E-12	515	503
KLHDC7A	-0.31628	1.99E-13	2.89E-12	515	512
CCDC42B	-0.31623	2.01E-13	2.91E-12	515	508
TK2	-0.31621	2.01E-13	2.92E-12	515	515
PLEKHM1	-0.31589	2.14E-13	3.09E-12	515	515
S100Z	-0.31584	2.16E-13	3.12E-12	515	468
PNPLA7	-0.31582	2.16E-13	3.12E-12	515	515
PRICKLE1	-0.31573	2.20E-13	3.17E-12	515	515
FXVD6	-0.3157	2.21E-13	3.18E-12	515	515
EFHC1	-0.31567	2.22E-13	3.20E-12	515	515
LOC10013	-0.31561	2.25E-13	3.23E-12	515	515
TBC1D2B	-0.31553	2.28E-13	3.27E-12	515	515
C9orf128	-0.3155	2.29E-13	3.29E-12	515	449
HK3	-0.31546	2.31E-13	3.31E-12	515	515
FAM189A	-0.31543	2.32E-13	3.33E-12	515	515
GAS2L2	-0.31534	2.36E-13	3.37E-12	515	495
SCN11A	-0.31534	2.36E-13	3.37E-12	515	485
PTPRO	-0.31501	2.51E-13	3.57E-12	515	515
FRY	-0.31496	2.53E-13	3.59E-12	515	515
PCYOX1L	-0.31496	2.53E-13	3.59E-12	515	515
PIN1	-0.31494	2.54E-13	3.61E-12	515	515
LOC33879	-0.31482	2.60E-13	3.67E-12	515	515
CCDC28A	-0.31472	2.65E-13	3.74E-12	515	515
AIF1	-0.31452	2.74E-13	3.87E-12	515	515
MFSD7	-0.31448	2.76E-13	3.89E-12	515	515
KCNMB1	-0.31443	2.79E-13	3.92E-12	515	515
ANKRD24	-0.31436	2.82E-13	3.97E-12	515	514

PTH1R	-0.31434	2.84E-13	3.99E-12	515	515
TCEAL6	-0.31423	2.89E-13	4.05E-12	515	515
HDAC10	-0.31415	2.93E-13	4.11E-12	515	515
CCDC17	-0.31405	2.99E-13	4.18E-12	515	514
CD40LG	-0.31405	2.99E-13	4.18E-12	515	514
APOBEC3	-0.31402	3.00E-13	4.20E-12	515	510
FLJ37453	-0.31393	3.05E-13	4.26E-12	515	515
CROCCL1	-0.31385	3.10E-13	4.32E-12	515	515
BTN3A3	-0.31376	3.15E-13	4.38E-12	515	515
CHAD	-0.31369	3.19E-13	4.44E-12	515	513
RASL10A	-0.3136	3.24E-13	4.50E-12	515	505
GPR55	-0.31359	3.25E-13	4.51E-12	515	512
SLC14A1	-0.31349	3.31E-13	4.59E-12	515	515
DNAH1	-0.31342	3.35E-13	4.64E-12	515	515
ZNF559	-0.31338	3.38E-13	4.67E-12	515	515
TMEM132	-0.3133	3.42E-13	4.73E-12	515	408
THRA	-0.31322	3.47E-13	4.79E-12	515	515
GATA1	-0.31319	3.49E-13	4.82E-12	515	449
CLIC5	-0.31307	3.57E-13	4.91E-12	515	515
ZNF167	-0.31305	3.58E-13	4.93E-12	515	515
TMEM130	-0.31304	3.59E-13	4.94E-12	515	513
DNM1P35	-0.31301	3.60E-13	4.96E-12	515	515
GGT5	-0.31298	3.62E-13	4.98E-12	515	515
IFI27L2	-0.31279	3.76E-13	5.15E-12	515	515
HLA-DQA	-0.31277	3.77E-13	5.16E-12	515	515
PVALB	-0.31276	3.78E-13	5.17E-12	515	466
MS4A8B	-0.31274	3.79E-13	5.18E-12	515	470
CYP4X1	-0.31273	3.80E-13	5.19E-12	515	515
SUSD3	-0.31265	3.85E-13	5.26E-12	515	515
ECHDC2	-0.31253	3.93E-13	5.37E-12	515	515
LOC28307	-0.31252	3.94E-13	5.38E-12	515	515
P2RY11	-0.31248	3.97E-13	5.41E-12	515	511
ARHGEF15	-0.31246	3.98E-13	5.42E-12	515	515
CAV3	-0.31237	4.05E-13	5.51E-12	515	275
ZFP3	-0.31231	4.10E-13	5.57E-12	515	515
DNASE2B	-0.3123	4.10E-13	5.57E-12	515	480
MDGA1	-0.31224	4.15E-13	5.63E-12	515	515
KIAA0141	-0.31221	4.17E-13	5.65E-12	515	515
CCDC69	-0.31218	4.19E-13	5.68E-12	515	515
CYP4B1	-0.31213	4.23E-13	5.73E-12	515	514
SMARCA2	-0.31201	4.32E-13	5.86E-12	515	515
BLNK	-0.3119	4.41E-13	5.97E-12	515	515
RSPO2	-0.31176	4.52E-13	6.10E-12	515	488
CCDC153	-0.31176	4.52E-13	6.10E-12	515	514

TCEAL3	-0.3117	4.57E-13	6.17E-12	515	515
BCO2	-0.31161	4.64E-13	6.26E-12	515	515
C1orf152	-0.31146	4.77E-13	6.43E-12	515	514
DOCK2	-0.3114	4.82E-13	6.49E-12	515	515
PROCA1	-0.31133	4.89E-13	6.58E-12	515	515
FUCA1	-0.31129	4.92E-13	6.61E-12	515	515
GLT25D2	-0.31128	4.93E-13	6.62E-12	515	515
LMOD1	-0.3112	5.00E-13	6.71E-12	515	515
DOCK8	-0.31111	5.08E-13	6.81E-12	515	515
ANAPC2	-0.3111	5.09E-13	6.82E-12	515	515
KAT2B	-0.311	5.19E-13	6.95E-12	515	515
AGAP3	-0.31094	5.24E-13	7.01E-12	515	515
CTNNBIP1	-0.31084	5.33E-13	7.13E-12	515	515
FBXO31	-0.31082	5.36E-13	7.16E-12	515	515
STAC3	-0.31071	5.46E-13	7.29E-12	515	515
FMO4	-0.31059	5.58E-13	7.44E-12	515	515
RAMP2	-0.31037	5.81E-13	7.74E-12	515	515
SUSD2	-0.31027	5.91E-13	7.85E-12	515	515
NLRP3	-0.31026	5.92E-13	7.86E-12	515	515
LRRN4CL	-0.31021	5.98E-13	7.94E-12	515	515
DOK1	-0.31018	6.00E-13	7.97E-12	515	515
PLP1	-0.31016	6.03E-13	7.99E-12	515	359
MYOM2	-0.31003	6.17E-13	8.18E-12	515	514
RGS12	-0.31001	6.19E-13	8.20E-12	515	515
HDAC5	-0.30998	6.23E-13	8.24E-12	515	515
AP1M1	-0.30995	6.26E-13	8.28E-12	515	515
FLJ13197	-0.30994	6.27E-13	8.29E-12	515	513
TPPP	-0.30993	6.28E-13	8.30E-12	515	515
EZH1	-0.30991	6.30E-13	8.32E-12	515	515
HLA-DOB	-0.30983	6.40E-13	8.44E-12	515	515
UNC45B	-0.3098	6.43E-13	8.47E-12	515	491
CD300LG	-0.30953	6.75E-13	8.86E-12	515	433
LUC7L	-0.30949	6.79E-13	8.90E-12	515	515
HTR3C	-0.30948	6.81E-13	8.91E-12	515	266
CLEC18A	-0.30948	6.81E-13	8.91E-12	515	508
ABCA6	-0.30944	6.85E-13	8.96E-12	515	515
CHRNA10	-0.30939	6.92E-13	9.04E-12	515	515
IL10RA	-0.30931	7.02E-13	9.17E-12	515	515
PLCH2	-0.3092	7.16E-13	9.34E-12	515	515
ROBO2	-0.30887	7.59E-13	9.90E-12	515	513
CPNE9	-0.30882	7.66E-13	9.98E-12	515	442
INPP5J	-0.3087	7.83E-13	1.02E-11	515	515
LOC40093	-0.30853	8.06E-13	1.05E-11	515	513
TMPRSS2	-0.30848	8.14E-13	1.06E-11	515	515

MMP19	-0.30842	8.22E-13	1.07E-11	515	515
FLJ33360	-0.30841	8.23E-13	1.07E-11	515	431
RIN3	-0.30831	8.38E-13	1.09E-11	515	515
C9orf130	-0.3083	8.40E-13	1.09E-11	515	515
SYNGAP1	-0.30828	8.43E-13	1.09E-11	515	515
ARHGAP3	-0.30811	8.70E-13	1.12E-11	515	515
CHIT1	-0.30808	8.74E-13	1.12E-11	515	515
ITGAM	-0.30804	8.79E-13	1.13E-11	515	515
PPP2R2B	-0.30803	8.82E-13	1.13E-11	515	515
NCF2	-0.30788	9.05E-13	1.16E-11	515	515
P2RX2	-0.30788	9.05E-13	1.16E-11	515	431
NCF1	-0.30787	9.07E-13	1.16E-11	515	515
MAP4K1	-0.30781	9.17E-13	1.17E-11	515	515
SOX8	-0.30777	9.22E-13	1.18E-11	515	514
RBP5	-0.30763	9.46E-13	1.21E-11	515	515
NPR2	-0.30753	9.63E-13	1.23E-11	515	515
ZNF547	-0.30749	9.70E-13	1.24E-11	515	515
SLC24A4	-0.30738	9.89E-13	1.26E-11	515	511
MGC3771	-0.30737	9.90E-13	1.26E-11	515	515
SELO	-0.3073	1.00E-12	1.28E-11	515	515
DDO	-0.30726	1.01E-12	1.29E-11	515	514
SNHG12	-0.30716	1.03E-12	1.31E-11	515	515
OLFM1	-0.30714	1.03E-12	1.31E-11	515	515
TGFB111	-0.30709	1.04E-12	1.32E-11	515	515
BOC	-0.30705	1.05E-12	1.33E-11	515	515
GTF2IRD2	-0.30698	1.06E-12	1.35E-11	515	515
PPIL6	-0.30693	1.07E-12	1.36E-11	515	515
CHRD1	-0.30686	1.08E-12	1.37E-11	515	514
POU3F1	-0.30682	1.09E-12	1.38E-11	515	507
C10orf116	-0.30679	1.10E-12	1.39E-11	515	515
FLCN	-0.30677	1.10E-12	1.39E-11	515	515
TMEM39B	-0.30674	1.11E-12	1.40E-11	515	515
HSPB2	-0.30669	1.12E-12	1.41E-11	515	515
RABEP2	-0.30666	1.12E-12	1.41E-11	515	515
TRIM52	-0.30666	1.12E-12	1.42E-11	515	515
CSDC2	-0.30649	1.16E-12	1.45E-11	515	514
COX7A1	-0.30645	1.17E-12	1.47E-11	515	515
TNS1	-0.30643	1.17E-12	1.47E-11	515	515
KRTAP5-9	-0.30635	1.19E-12	1.49E-11	515	457
KLKB1	-0.30625	1.21E-12	1.51E-11	515	498
PRDM6	-0.30624	1.21E-12	1.51E-11	515	515
LEFTY2	-0.3062	1.22E-12	1.52E-11	515	493
AQP10	-0.30612	1.24E-12	1.54E-11	515	353
ABI3BP	-0.30601	1.26E-12	1.57E-11	515	515

CCDC19	-0.30588	1.29E-12	1.61E-11	515	515
VAMP2	-0.30579	1.31E-12	1.63E-11	515	515
KLHL6	-0.30577	1.31E-12	1.63E-11	515	515
C5orf49	-0.30573	1.33E-12	1.65E-11	515	515
NAT6	-0.30566	1.34E-12	1.66E-11	515	515
RGS3	-0.30563	1.35E-12	1.67E-11	515	515
JUN	-0.30562	1.35E-12	1.67E-11	515	515
APBB1	-0.30546	1.39E-12	1.72E-11	515	515
NXPH3	-0.30545	1.39E-12	1.72E-11	515	515
GPR120	-0.30533	1.42E-12	1.76E-11	515	503
KCNIP2	-0.30529	1.43E-12	1.77E-11	515	515
TRIM66	-0.30515	1.47E-12	1.81E-11	515	515
TM7SF4	-0.30486	1.54E-12	1.89E-11	515	512
MICALL2	-0.30486	1.54E-12	1.89E-11	515	515
GJC2	-0.30477	1.57E-12	1.92E-11	515	514
ZNF554	-0.30476	1.57E-12	1.92E-11	515	515
HEXDC	-0.30471	1.58E-12	1.94E-11	515	515
INMT	-0.30469	1.59E-12	1.94E-11	515	515
PAPLN	-0.30462	1.61E-12	1.97E-11	515	515
ARID5A	-0.30458	1.62E-12	1.98E-11	515	515
ZBTB7C	-0.30455	1.63E-12	1.99E-11	515	515
ODF3B	-0.30452	1.64E-12	1.99E-11	515	515
FAM70B	-0.30448	1.65E-12	2.01E-11	515	515
C14orf64	-0.30446	1.66E-12	2.02E-11	515	508
C20orf132	-0.30443	1.66E-12	2.02E-11	515	515
MLLT1	-0.30442	1.67E-12	2.03E-11	515	515
RRN3P3	-0.30438	1.68E-12	2.04E-11	515	515
HSPA12B	-0.30433	1.69E-12	2.06E-11	515	515
GAPT	-0.30432	1.70E-12	2.06E-11	515	515
HCLS1	-0.30429	1.71E-12	2.07E-11	515	515
WDR90	-0.30423	1.72E-12	2.09E-11	515	515
AVIL	-0.30415	1.75E-12	2.11E-11	515	515
MAP7D1	-0.30403	1.79E-12	2.16E-11	515	515
MPND	-0.30392	1.82E-12	2.19E-11	515	515
ZFP2	-0.30389	1.83E-12	2.20E-11	515	515
LOC12195	-0.30382	1.85E-12	2.23E-11	515	387
PEX11G	-0.30381	1.86E-12	2.23E-11	515	515
CNTN6	-0.30377	1.87E-12	2.24E-11	515	455
C1orf21	-0.30376	1.87E-12	2.25E-11	515	515
TLL10	-0.30375	1.87E-12	2.25E-11	515	494
CORO2B	-0.30373	1.88E-12	2.26E-11	515	515
MAPK11	-0.30373	1.88E-12	2.26E-11	515	515
PIGR	-0.30369	1.89E-12	2.27E-11	515	515
C19orf6	-0.30368	1.90E-12	2.27E-11	515	515

CAPS	-0.30362	1.92E-12	2.29E-11	515	514
GPR17	-0.30359	1.93E-12	2.30E-11	515	496
NRXN2	-0.30352	1.95E-12	2.33E-11	515	515
C21orf129	-0.30332	2.02E-12	2.41E-11	515	330
ARRDC5	-0.3033	2.03E-12	2.42E-11	515	509
PRR24	-0.30329	2.03E-12	2.42E-11	515	515
TBRG1	-0.30321	2.06E-12	2.45E-11	515	515
DNHD1	-0.3032	2.06E-12	2.45E-11	515	515
EXOC3L	-0.30319	2.07E-12	2.46E-11	515	514
RGAG4	-0.30312	2.09E-12	2.49E-11	515	515
CTF1	-0.30308	2.11E-12	2.50E-11	515	515
MIB2	-0.30306	2.12E-12	2.51E-11	515	515
CROCCL2	-0.30303	2.13E-12	2.52E-11	515	515
C6orf97	-0.303	2.14E-12	2.53E-11	515	515
MGRN1	-0.3029	2.18E-12	2.57E-11	515	515
C9orf117	-0.30283	2.20E-12	2.60E-11	515	508
EPB41L4A	-0.30279	2.22E-12	2.62E-11	515	515
KRT79	-0.30266	2.27E-12	2.67E-11	515	379
ACSBG1	-0.30266	2.27E-12	2.67E-11	515	508
RABL2A	-0.30262	2.28E-12	2.69E-11	515	515
VIPR1	-0.30258	2.30E-12	2.71E-11	515	515
PTPRCAP	-0.30253	2.32E-12	2.73E-11	515	515
IKBKB	-0.30252	2.32E-12	2.73E-11	515	515
YPEL1	-0.30242	2.36E-12	2.78E-11	515	515
LOC28483	-0.30242	2.36E-12	2.78E-11	515	515
CCL16	-0.30238	2.38E-12	2.79E-11	515	326
ITGA10	-0.30237	2.38E-12	2.79E-11	515	515
TRIM41	-0.3023	2.41E-12	2.83E-11	515	515
ADCY4	-0.30227	2.43E-12	2.84E-11	515	515
CABIN1	-0.30226	2.43E-12	2.84E-11	515	515
C22orf36	-0.30216	2.47E-12	2.89E-11	515	515
RNF130	-0.3021	2.50E-12	2.92E-11	515	515
CXorf42	-0.30207	2.51E-12	2.94E-11	515	515
MARCO	-0.30206	2.51E-12	2.94E-11	515	514
WLS	-0.30202	2.54E-12	2.96E-11	515	515
DOCK10	-0.30167	2.69E-12	3.14E-11	515	515
C22orf25	-0.30166	2.70E-12	3.14E-11	515	515
LGALS9C	-0.30159	2.73E-12	3.17E-11	515	515
NLRC4	-0.30146	2.79E-12	3.24E-11	515	515
NCALD	-0.30142	2.81E-12	3.26E-11	515	515
LOC20218	-0.30134	2.85E-12	3.31E-11	515	515
PARP3	-0.30124	2.90E-12	3.36E-11	515	515
KEL	-0.3012	2.92E-12	3.38E-11	515	474
ZNF362	-0.3012	2.92E-12	3.38E-11	515	515

MSTN	-0.30114	2.95E-12	3.41E-11	515	465
GPR108	-0.30106	2.99E-12	3.46E-11	515	515
IL3RA	-0.30098	3.03E-12	3.50E-11	515	515
CCDC94	-0.3009	3.08E-12	3.55E-11	515	515
SIGLEC11	-0.30076	3.15E-12	3.64E-11	515	509
MGAT1	-0.30058	3.25E-12	3.74E-11	515	515
ADCY9	-0.30021	3.47E-12	3.99E-11	515	515
GRM6	-0.30001	3.59E-12	4.12E-11	515	476
FBXL8	-0.29988	3.67E-12	4.21E-11	515	514
SFRS4	-0.29983	3.70E-12	4.24E-11	515	515
CD300LB	-0.29982	3.71E-12	4.25E-11	515	515
TPSAB1	-0.29977	3.74E-12	4.28E-11	515	514
FAAH	-0.29973	3.77E-12	4.31E-11	515	515
ABCA8	-0.29969	3.79E-12	4.33E-11	515	513
CASR	-0.29966	3.81E-12	4.35E-11	515	382
ZNF136	-0.29965	3.82E-12	4.36E-11	515	515
TBX2	-0.29965	3.82E-12	4.36E-11	515	515
MEF2C	-0.29962	3.84E-12	4.38E-11	515	515
LOC10013	-0.29958	3.86E-12	4.40E-11	515	515
FAM183B	-0.29957	3.87E-12	4.41E-11	515	439
ZNF438	-0.29956	3.88E-12	4.41E-11	515	515
CD59	-0.29941	3.98E-12	4.53E-11	515	515
FBLN5	-0.2994	3.98E-12	4.53E-11	515	515
WDR27	-0.29934	4.02E-12	4.57E-11	515	515
CAPN11	-0.29932	4.04E-12	4.59E-11	515	476
C14orf180	-0.29924	4.10E-12	4.65E-11	515	302
PKNOX2	-0.29912	4.18E-12	4.73E-11	515	515
SYT15	-0.29903	4.25E-12	4.81E-11	515	515
MAF	-0.29897	4.29E-12	4.85E-11	515	515
ATP13A4	-0.29896	4.30E-12	4.86E-11	515	510
CLECL1	-0.29886	4.37E-12	4.93E-11	515	511
MYOC	-0.29879	4.42E-12	4.98E-11	515	398
HLA-DPB2	-0.29877	4.44E-12	5.00E-11	515	508
GIMAP7	-0.29876	4.45E-12	5.00E-11	515	515
FLJ45244	-0.2987	4.49E-12	5.04E-11	515	515
SOBP	-0.29864	4.54E-12	5.09E-11	515	515
BHLHE41	-0.29864	4.54E-12	5.09E-11	515	515
KLC4	-0.2986	4.57E-12	5.12E-11	515	515
SAMD3	-0.29858	4.59E-12	5.13E-11	515	515
ARAP1	-0.29856	4.60E-12	5.14E-11	515	515
NUPR1	-0.29841	4.72E-12	5.27E-11	515	515
ARRDC4	-0.29838	4.75E-12	5.29E-11	515	515
RASSF2	-0.29836	4.76E-12	5.31E-11	515	515
LOC64647	-0.29825	4.85E-12	5.41E-11	515	515

TOX2	-0.29824	4.86E-12	5.41E-11	515	515
KCNA5	-0.29818	4.91E-12	5.45E-11	515	508
SLC35E2	-0.29809	4.99E-12	5.53E-11	515	515
LOC14962	-0.29809	4.99E-12	5.53E-11	515	363
POM121L	-0.29802	5.05E-12	5.60E-11	515	477
CACHD1	-0.29795	5.11E-12	5.66E-11	515	515
C19orf36	-0.29787	5.18E-12	5.73E-11	515	514
ANGPTL7	-0.29781	5.23E-12	5.78E-11	515	373
TNN	-0.29773	5.31E-12	5.87E-11	515	505
SOD3	-0.29762	5.41E-12	5.97E-11	515	515
PDK2	-0.29762	5.41E-12	5.97E-11	515	515
SRL	-0.29749	5.53E-12	6.09E-11	515	514
FMO2	-0.29738	5.63E-12	6.21E-11	515	515
CHADL	-0.29736	5.66E-12	6.22E-11	515	515
EID2B	-0.29729	5.72E-12	6.29E-11	515	515
LYNX1	-0.29725	5.76E-12	6.32E-11	515	515
ZNF25	-0.29724	5.76E-12	6.33E-11	515	515
BTBD19	-0.29713	5.88E-12	6.45E-11	515	513
ANGPTL5	-0.29707	5.94E-12	6.51E-11	515	413
OGFR	-0.29703	5.98E-12	6.55E-11	515	515
SIDT1	-0.29696	6.05E-12	6.63E-11	515	515
C1orf91	-0.29686	6.16E-12	6.74E-11	515	515
ZBED5	-0.2968	6.22E-12	6.80E-11	515	515
EVI2B	-0.29673	6.29E-12	6.87E-11	515	515
DBP	-0.29673	6.29E-12	6.87E-11	515	515
CLEC18B	-0.29669	6.33E-12	6.91E-11	515	471
ARHGAP1	-0.29669	6.34E-12	6.91E-11	515	515
CAMK1	-0.2966	6.43E-12	7.00E-11	515	515
LRRN3	-0.29659	6.45E-12	7.01E-11	515	514
TCF21	-0.29655	6.49E-12	7.06E-11	515	514
KCTD7	-0.29648	6.56E-12	7.13E-11	515	515
CLDN15	-0.29631	6.76E-12	7.33E-11	515	515
TRANK1	-0.29609	7.01E-12	7.60E-11	515	515
CXorf21	-0.29607	7.04E-12	7.63E-11	515	515
RIBC1	-0.29603	7.08E-12	7.67E-11	515	514
C20orf200	-0.29595	7.18E-12	7.76E-11	515	383
SLCO2B1	-0.29582	7.35E-12	7.94E-11	515	515
DPY19L2P	-0.29577	7.41E-12	8.00E-11	515	514
EIF4EBP3	-0.29575	7.43E-12	8.02E-11	515	515
NRGN	-0.29574	7.45E-12	8.03E-11	515	515
DZIP1L	-0.2957	7.50E-12	8.08E-11	515	515
OR56B1	-0.29563	7.58E-12	8.16E-11	515	202
CDK10	-0.29559	7.63E-12	8.21E-11	515	515
DHRS1	-0.29554	7.70E-12	8.27E-11	515	515

MYL5	-0.29549	7.77E-12	8.33E-11	515	515
LOC11323	-0.29527	8.05E-12	8.63E-11	515	515
CLEC4A	-0.29527	8.06E-12	8.63E-11	515	515
B3GAT1	-0.29525	8.09E-12	8.66E-11	515	515
VAMP1	-0.29519	8.17E-12	8.75E-11	515	515
VILL	-0.29511	8.28E-12	8.86E-11	515	515
RNPC3	-0.29507	8.34E-12	8.91E-11	515	515
DPP6	-0.295	8.44E-12	9.02E-11	515	483
FAM167B	-0.29497	8.48E-12	9.05E-11	515	515
C16orf5	-0.29495	8.51E-12	9.07E-11	515	515
CES2	-0.29495	8.51E-12	9.07E-11	515	515
PEF1	-0.29489	8.59E-12	9.15E-11	515	515
RAC2	-0.29484	8.67E-12	9.24E-11	515	515
GDPD5	-0.29479	8.74E-12	9.31E-11	515	515
FAM129C	-0.29477	8.78E-12	9.34E-11	515	499
ADORA2A	-0.29469	8.89E-12	9.45E-11	515	515
ATP1A2	-0.29468	8.91E-12	9.46E-11	515	506
MYST1	-0.29468	8.91E-12	9.46E-11	515	515
COL21A1	-0.2946	9.02E-12	9.58E-11	515	515
HSPB7	-0.29443	9.29E-12	9.86E-11	515	515
GRID1	-0.29439	9.35E-12	9.92E-11	515	514
TMEM88	-0.29437	9.38E-12	9.94E-11	515	515
CRTC1	-0.29429	9.52E-12	1.01E-10	515	515
LOC72874	-0.29424	9.59E-12	1.01E-10	515	515
PLCG2	-0.29424	9.59E-12	1.01E-10	515	515
GNRH1	-0.29421	9.64E-12	1.02E-10	515	514
LYZ	-0.29415	9.73E-12	1.03E-10	515	515
TNNI3K	-0.29408	9.85E-12	1.04E-10	515	503
ADH1B	-0.29388	1.02E-11	1.07E-10	515	509
ZNF334	-0.2938	1.03E-11	1.09E-10	515	515
GATA6	-0.2938	1.03E-11	1.09E-10	515	515
THSD1	-0.29376	1.04E-11	1.09E-10	515	515
C17orf87	-0.29375	1.04E-11	1.09E-10	515	513
C15orf62	-0.29372	1.05E-11	1.10E-10	515	515
MYOZ3	-0.29362	1.06E-11	1.11E-10	515	514
TREML2	-0.29362	1.06E-11	1.11E-10	515	512
NECAP2	-0.29353	1.08E-11	1.13E-10	515	515
C1orf183	-0.29339	1.11E-11	1.15E-10	515	515
KIAA1274	-0.29333	1.12E-11	1.16E-10	515	515
GABRE	-0.2933	1.12E-11	1.17E-10	515	515
LAIR1	-0.29329	1.13E-11	1.17E-10	515	515
CYB5R3	-0.29321	1.14E-11	1.18E-10	515	515
CRIP2	-0.2932	1.14E-11	1.18E-10	515	515
KIAA0408	-0.29317	1.15E-11	1.19E-10	515	390

NTRK1	-0.29309	1.16E-11	1.21E-10	515	507
ATP6V0D2	-0.293	1.18E-11	1.22E-10	515	515
ALOX5AP	-0.29298	1.18E-11	1.23E-10	515	515
LOC28559	-0.29291	1.20E-11	1.24E-10	515	485
CSF1R	-0.29288	1.21E-11	1.24E-10	515	515
CYGB	-0.29286	1.21E-11	1.25E-10	515	515
CCL17	-0.29283	1.22E-11	1.25E-10	515	509
TMPRSS5	-0.29273	1.24E-11	1.27E-10	515	482
C1orf89	-0.29265	1.25E-11	1.29E-10	515	515
NCKAP1L	-0.29253	1.28E-11	1.31E-10	515	515
SOAT2	-0.29244	1.30E-11	1.33E-10	515	364
IRX1	-0.29237	1.31E-11	1.34E-10	515	456
LRRC25	-0.29236	1.31E-11	1.34E-10	515	515
HLA-C	-0.2921	1.37E-11	1.40E-10	515	515
C17orf56	-0.2921	1.37E-11	1.40E-10	515	515
ACAP3	-0.29209	1.38E-11	1.41E-10	515	515
POM121L	-0.29207	1.38E-11	1.41E-10	515	497
ATP6V0D1	-0.292	1.40E-11	1.43E-10	515	515
UAP1L1	-0.2919	1.42E-11	1.45E-10	515	515
RAMP3	-0.29178	1.45E-11	1.48E-10	515	515
RGMB	-0.29172	1.46E-11	1.49E-10	515	515
STARD5	-0.29169	1.47E-11	1.50E-10	515	515
LPAR6	-0.29159	1.50E-11	1.52E-10	515	515
KLF2	-0.29157	1.50E-11	1.52E-10	515	515
ARHGEF7	-0.29155	1.51E-11	1.53E-10	515	515
B9D2	-0.29143	1.54E-11	1.55E-10	515	515
SIGLEC9	-0.2914	1.54E-11	1.56E-10	515	515
PTPN22	-0.29125	1.58E-11	1.60E-10	515	515
CLCN6	-0.29111	1.62E-11	1.63E-10	515	515
PAQR8	-0.29111	1.62E-11	1.63E-10	515	515
3-Mar	-0.29109	1.62E-11	1.64E-10	515	515
VAV1	-0.29106	1.63E-11	1.65E-10	515	515
SFRS18	-0.29105	1.64E-11	1.65E-10	515	515
ZNF442	-0.29099	1.65E-11	1.66E-10	515	515
CENPT	-0.29095	1.66E-11	1.67E-10	515	515
DES	-0.29095	1.66E-11	1.67E-10	515	515
IHH	-0.29091	1.68E-11	1.68E-10	515	479
GATA5	-0.2908	1.71E-11	1.71E-10	515	499
LOC10018	-0.29075	1.72E-11	1.73E-10	515	515
MIR155HG	-0.2907	1.74E-11	1.74E-10	515	515
LOC28427	-0.29069	1.74E-11	1.74E-10	515	499
FAM125B	-0.2906	1.76E-11	1.76E-10	515	515
C9orf24	-0.29056	1.77E-11	1.77E-10	515	509
CGNL1	-0.29053	1.79E-11	1.78E-10	515	515

NAT15	-0.29042	1.82E-11	1.81E-10	515	515
OR5K2	-0.29038	1.83E-11	1.82E-10	515	288
BTN2A3	-0.29037	1.83E-11	1.82E-10	515	515
GALNTL4	-0.29031	1.85E-11	1.84E-10	515	515
DBH	-0.2903	1.85E-11	1.84E-10	515	506
GSDMB	-0.29025	1.87E-11	1.86E-10	515	515
ERVFRDE1	-0.2902	1.88E-11	1.87E-10	515	482
ATP8B4	-0.29017	1.89E-11	1.88E-10	515	515
C12orf69	-0.29012	1.91E-11	1.90E-10	515	514
NTRK2	-0.28985	2.00E-11	1.98E-10	515	514
NLRP9	-0.28984	2.00E-11	1.98E-10	515	464
ST5	-0.28981	2.01E-11	1.99E-10	515	515
MXD4	-0.28974	2.03E-11	2.01E-10	515	515
FAM108A	-0.2897	2.05E-11	2.03E-10	515	515
TBX5	-0.28966	2.06E-11	2.04E-10	515	515
SIGLEC1	-0.28959	2.08E-11	2.06E-10	515	515
IGSF6	-0.28952	2.11E-11	2.08E-10	515	515
LOC10027	-0.28952	2.11E-11	2.08E-10	515	515
DNAI2	-0.28943	2.14E-11	2.11E-10	515	429
TCTEX1D1	-0.28941	2.15E-11	2.11E-10	515	515
LOC10030	-0.28941	2.15E-11	2.11E-10	515	515
MC5R	-0.28938	2.16E-11	2.12E-10	515	279
CACNA2D	-0.28936	2.17E-11	2.13E-10	515	511
C13orf15	-0.2892	2.23E-11	2.18E-10	515	515
MAP6	-0.28918	2.23E-11	2.19E-10	515	515
HVCN1	-0.28918	2.23E-11	2.19E-10	515	515
B3GNT1	-0.28901	2.30E-11	2.25E-10	515	515
GRIA1	-0.28898	2.31E-11	2.26E-10	515	482
GAS7	-0.28896	2.31E-11	2.26E-10	515	515
EMP3	-0.28895	2.32E-11	2.26E-10	515	515
BDNFOS	-0.28893	2.33E-11	2.27E-10	515	515
GPR44	-0.2889	2.33E-11	2.28E-10	515	511
NR2F1	-0.28886	2.35E-11	2.29E-10	515	515
KCNH4	-0.28878	2.38E-11	2.32E-10	515	480
SEPT7P2	-0.28878	2.38E-11	2.32E-10	515	515
PGCP	-0.28878	2.38E-11	2.32E-10	515	515
FKBP15	-0.28867	2.43E-11	2.36E-10	515	515
MMP21	-0.28859	2.46E-11	2.39E-10	515	366
C1orf38	-0.28857	2.47E-11	2.39E-10	515	515
KIAA0664	-0.28852	2.49E-11	2.41E-10	515	515
AGAP2	-0.28848	2.50E-11	2.43E-10	515	515
LOC10012	-0.28839	2.54E-11	2.46E-10	515	484
F11	-0.28832	2.57E-11	2.49E-10	515	419
UBQLNL	-0.28827	2.59E-11	2.51E-10	515	515

EVI5L	-0.28815	2.64E-11	2.55E-10	515	515
ZNF596	-0.28804	2.69E-11	2.59E-10	515	515
FCHSD2	-0.288	2.71E-11	2.61E-10	515	515
APOL3	-0.28798	2.72E-11	2.62E-10	515	515
C1orf186	-0.28797	2.72E-11	2.62E-10	515	509
ZCWPW1	-0.28787	2.77E-11	2.66E-10	515	515
LOC10027	-0.28786	2.77E-11	2.66E-10	515	509
ZNF493	-0.28784	2.78E-11	2.67E-10	515	515
SEC14L3	-0.28784	2.78E-11	2.67E-10	515	339
ZNF662	-0.28781	2.80E-11	2.68E-10	515	515
MADD	-0.28777	2.82E-11	2.70E-10	515	515
MED26	-0.28767	2.86E-11	2.74E-10	515	515
PDE6G	-0.28766	2.86E-11	2.74E-10	515	515
SMPD3	-0.28758	2.90E-11	2.78E-10	515	515
SLC9A11	-0.28754	2.92E-11	2.79E-10	515	361
MOCS1	-0.28754	2.92E-11	2.79E-10	515	515
ARHGAP3	-0.28751	2.93E-11	2.80E-10	515	515
WDR24	-0.28748	2.95E-11	2.82E-10	515	515
WSCD2	-0.28739	2.99E-11	2.85E-10	515	498
SLCO3A1	-0.28739	2.99E-11	2.85E-10	515	515
ITIH3	-0.28739	2.99E-11	2.85E-10	515	513
ZNF175	-0.28732	3.03E-11	2.88E-10	515	515
IL12RB1	-0.28727	3.06E-11	2.90E-10	515	515
RXRG	-0.2871	3.14E-11	2.98E-10	515	473
TXNDC15	-0.28702	3.18E-11	3.02E-10	515	515
PTPN21	-0.28673	3.34E-11	3.16E-10	515	515
RCS1	-0.28673	3.34E-11	3.16E-10	515	515
CYSLTR1	-0.28672	3.34E-11	3.16E-10	515	515
CCDC89	-0.28669	3.36E-11	3.18E-10	515	514
FLJ36777	-0.28668	3.36E-11	3.18E-10	515	497
COL6A4P2	-0.28666	3.38E-11	3.19E-10	515	492
AOC3	-0.28662	3.40E-11	3.21E-10	515	515
PODN	-0.28642	3.51E-11	3.31E-10	515	515
KIAA0513	-0.28642	3.51E-11	3.31E-10	515	515
EDN3	-0.2864	3.52E-11	3.32E-10	515	293
PDZRN3	-0.28629	3.59E-11	3.38E-10	515	515
PRR14	-0.28617	3.65E-11	3.44E-10	515	515
CD101	-0.28611	3.69E-11	3.47E-10	515	515
ZDHHC8	-0.28611	3.69E-11	3.47E-10	515	515
C1orf213	-0.28609	3.70E-11	3.48E-10	515	515
C2orf55	-0.28593	3.80E-11	3.56E-10	515	515
RGS6	-0.28584	3.86E-11	3.62E-10	515	457
ZNF23	-0.28582	3.87E-11	3.62E-10	515	515
ACOXL	-0.28576	3.91E-11	3.66E-10	515	511

ICOSLG	-0.28576	3.91E-11	3.66E-10	515	515
CKMT2	-0.28575	3.92E-11	3.66E-10	515	508
SIGIRR	-0.28572	3.94E-11	3.68E-10	515	515
LPPR4	-0.28569	3.96E-11	3.70E-10	515	515
TAGAP	-0.28567	3.97E-11	3.70E-10	515	515
KCNE1	-0.28564	3.99E-11	3.72E-10	515	513
PRICKLE2	-0.28561	4.01E-11	3.74E-10	515	515
TSC22D3	-0.28553	4.06E-11	3.79E-10	515	515
CCDC92	-0.28553	4.06E-11	3.79E-10	515	515
S100B	-0.28552	4.07E-11	3.79E-10	515	515
SRGAP3	-0.28545	4.11E-11	3.83E-10	515	515
KCNAB3	-0.28541	4.14E-11	3.85E-10	515	513
CEACAM2	-0.2854	4.15E-11	3.86E-10	515	515
XAB2	-0.28538	4.16E-11	3.87E-10	515	515
GPR85	-0.28533	4.19E-11	3.90E-10	515	514
ADAMTS1	-0.2853	4.22E-11	3.92E-10	515	515
ASPA	-0.28519	4.29E-11	3.98E-10	515	492
LRDD	-0.28507	4.38E-11	4.05E-10	515	515
LMCD1	-0.28505	4.39E-11	4.06E-10	515	515
CCL14	-0.28503	4.40E-11	4.07E-10	515	514
MYH11	-0.28497	4.45E-11	4.11E-10	515	515
TTLL1	-0.28493	4.47E-11	4.13E-10	515	515
FOXS1	-0.28489	4.50E-11	4.16E-10	515	515
CDIPT	-0.28475	4.61E-11	4.25E-10	515	515
DTX3	-0.28465	4.68E-11	4.32E-10	515	515
SLC15A2	-0.28464	4.69E-11	4.32E-10	515	515
ZBTB46	-0.28464	4.69E-11	4.32E-10	515	515
CLEC12B	-0.2846	4.72E-11	4.34E-10	515	443
TAL1	-0.28448	4.81E-11	4.43E-10	515	515
SLC9A3R2	-0.28447	4.82E-11	4.43E-10	515	515
FCRL1	-0.28419	5.04E-11	4.62E-10	515	500
GFRA2	-0.28418	5.05E-11	4.63E-10	515	513
THSD1P1	-0.28412	5.11E-11	4.68E-10	515	515
MYOZ1	-0.2841	5.12E-11	4.69E-10	515	512
C16orf89	-0.28405	5.16E-11	4.72E-10	515	515
TRIM62	-0.28393	5.27E-11	4.81E-10	515	515
ASB12	-0.28385	5.33E-11	4.87E-10	515	433
C17orf91	-0.28381	5.36E-11	4.90E-10	515	515
CD97	-0.28381	5.37E-11	4.90E-10	515	515
CDK3	-0.28359	5.56E-11	5.07E-10	515	515
LRP5L	-0.28357	5.58E-11	5.08E-10	515	515
DNAH8	-0.28354	5.60E-11	5.10E-10	515	472
HTRA4	-0.28349	5.65E-11	5.14E-10	515	513
LOC33952	-0.28347	5.67E-11	5.16E-10	515	515

ZSCAN4	-0.2834	5.74E-11	5.21E-10	515	404
C9orf44	-0.28336	5.77E-11	5.24E-10	515	350
BTNL8	-0.28323	5.89E-11	5.34E-10	515	479
TMEM132	-0.28319	5.93E-11	5.37E-10	515	508
LOC90586	-0.28319	5.93E-11	5.37E-10	515	489
AGPAT4	-0.28319	5.93E-11	5.37E-10	515	515
TSNAXIP1	-0.28315	5.97E-11	5.40E-10	515	511
PRRT3	-0.28303	6.08E-11	5.50E-10	515	515
CPVL	-0.28301	6.11E-11	5.52E-10	515	515
C1QA	-0.283	6.12E-11	5.53E-10	515	515
FCRL3	-0.28298	6.14E-11	5.54E-10	515	512
C21orf34	-0.28294	6.18E-11	5.57E-10	515	509
TRPV6	-0.28294	6.18E-11	5.57E-10	515	478
CASZ1	-0.28293	6.18E-11	5.57E-10	515	515
PRDM16	-0.28291	6.21E-11	5.59E-10	515	515
LIMD2	-0.28289	6.23E-11	5.61E-10	515	515
CA10	-0.28284	6.27E-11	5.65E-10	515	348
ELANE	-0.28281	6.31E-11	5.67E-10	515	395
MPEG1	-0.28281	6.31E-11	5.67E-10	515	515
SLC8A3	-0.28266	6.46E-11	5.80E-10	515	494
SIDT2	-0.28259	6.53E-11	5.86E-10	515	515
PREX1	-0.28252	6.61E-11	5.93E-10	515	515
SIGLEC16	-0.28248	6.65E-11	5.96E-10	515	507
SLC25A27	-0.28244	6.69E-11	6.00E-10	515	515
DCUN1D2	-0.2824	6.73E-11	6.03E-10	515	515
KIF17	-0.28239	6.75E-11	6.04E-10	515	515
GRN	-0.28236	6.78E-11	6.07E-10	515	515
HLA-DQA	-0.28232	6.82E-11	6.10E-10	515	515
SSBP2	-0.28229	6.86E-11	6.12E-10	515	515
NR1H3	-0.28227	6.88E-11	6.14E-10	515	515
SPEF1	-0.28227	6.88E-11	6.14E-10	515	506
UST	-0.28222	6.93E-11	6.18E-10	515	515
MS4A7	-0.28222	6.93E-11	6.18E-10	515	515
EFEMP2	-0.28208	7.09E-11	6.31E-10	515	515
LOC28583	-0.28207	7.10E-11	6.32E-10	515	515
CCDC152	-0.28206	7.12E-11	6.33E-10	515	514
FIGF	-0.28205	7.13E-11	6.34E-10	515	508
RARRES3	-0.28205	7.13E-11	6.34E-10	515	515
STAP1	-0.28186	7.35E-11	6.53E-10	515	514
TPRG1	-0.28183	7.39E-11	6.56E-10	515	515
RAB4B	-0.2818	7.42E-11	6.59E-10	515	515
GIMAP5	-0.28179	7.43E-11	6.59E-10	515	515
WWP2	-0.28174	7.49E-11	6.64E-10	515	515
SYT8	-0.28174	7.49E-11	6.64E-10	515	512

C1orf190	-0.28173	7.51E-11	6.65E-10	515	514
SPPL2B	-0.28171	7.53E-11	6.67E-10	515	515
ABCA5	-0.28168	7.56E-11	6.70E-10	515	515
CFD	-0.28165	7.59E-11	6.72E-10	515	515
MAP3K14	-0.2816	7.66E-11	6.77E-10	515	515
FLJ37307	-0.28157	7.70E-11	6.81E-10	515	488
SLFNL1	-0.28153	7.75E-11	6.85E-10	515	514
GDF5	-0.2815	7.79E-11	6.88E-10	515	505
LOC10012	-0.28146	7.83E-11	6.91E-10	515	515
ARHGEF2	-0.28121	8.16E-11	7.18E-10	515	515
SULT1C2	-0.28106	8.36E-11	7.36E-10	515	514
LPIN3	-0.28099	8.45E-11	7.43E-10	515	515
CX3CL1	-0.28092	8.54E-11	7.51E-10	515	515
MVP	-0.28086	8.62E-11	7.57E-10	515	515
MNDA	-0.28086	8.62E-11	7.57E-10	515	515
DLG4	-0.28077	8.74E-11	7.68E-10	515	515
IDO2	-0.28076	8.76E-11	7.69E-10	515	498
KCNK5	-0.28075	8.78E-11	7.70E-10	515	515
NFASC	-0.28068	8.87E-11	7.78E-10	515	515
AMT	-0.2806	8.99E-11	7.87E-10	515	515
ZNF682	-0.28058	9.02E-11	7.90E-10	515	515
ABCA7	-0.2805	9.14E-11	8.00E-10	515	515
TDRD6	-0.28043	9.23E-11	8.07E-10	515	514
MAP3K6	-0.28041	9.26E-11	8.09E-10	515	515
CMTM5	-0.28039	9.29E-11	8.11E-10	515	332
SMPD1	-0.28037	9.33E-11	8.13E-10	515	515
ZNF490	-0.28035	9.35E-11	8.14E-10	515	515
C9orf45	-0.28031	9.41E-11	8.19E-10	515	515
C17orf72	-0.2803	9.43E-11	8.20E-10	515	515
LCK	-0.28022	9.55E-11	8.30E-10	515	515
NPDC1	-0.28019	9.60E-11	8.34E-10	515	515
GNAO1	-0.28012	9.70E-11	8.41E-10	515	515
AMY2A	-0.28012	9.70E-11	8.41E-10	515	487
C6orf124	-0.28011	9.73E-11	8.43E-10	515	515
AMPD1	-0.28003	9.85E-11	8.53E-10	515	492
DARC	-0.27986	1.01E-10	8.75E-10	515	513
WASH2P	-0.27984	1.01E-10	8.77E-10	515	515
DGCR6L	-0.27971	1.04E-10	8.94E-10	515	515
RAB11B	-0.27967	1.04E-10	9.00E-10	515	515
DNAJC4	-0.27967	1.04E-10	9.00E-10	515	515
DEXI	-0.27961	1.05E-10	9.07E-10	515	515
SLC25A45	-0.2795	1.07E-10	9.23E-10	515	515
TNIP1	-0.27945	1.08E-10	9.30E-10	515	515
OR2A1	-0.27944	1.08E-10	9.31E-10	515	485

GSG1L	-0.27935	1.10E-10	9.44E-10	515	299
CCDC39	-0.27934	1.10E-10	9.44E-10	515	515
FAM118A	-0.27922	1.12E-10	9.62E-10	515	515
TMEM109	-0.2792	1.12E-10	9.65E-10	515	515
C7	-0.27916	1.13E-10	9.70E-10	515	515
UBE2G2	-0.27913	1.14E-10	9.74E-10	515	515
GPIHBP1	-0.27912	1.14E-10	9.75E-10	515	515
CLK1	-0.27892	1.17E-10	1.01E-09	515	515
CCR7	-0.27883	1.19E-10	1.02E-09	515	515
TPK1	-0.27883	1.19E-10	1.02E-09	515	515
DNASE2	-0.27861	1.23E-10	1.05E-09	515	515
FOXN3	-0.27854	1.25E-10	1.07E-09	515	515
IQSEC1	-0.27841	1.27E-10	1.09E-09	515	515
MAMDC2	-0.27837	1.28E-10	1.09E-09	515	514
WHAMM	-0.2783	1.30E-10	1.10E-09	515	515
AGRP	-0.27827	1.30E-10	1.11E-09	515	449
NAIP	-0.27827	1.30E-10	1.11E-09	515	515
PRKACA	-0.27814	1.33E-10	1.13E-09	515	515
BTN3A2	-0.2781	1.34E-10	1.14E-09	515	515
ANKRD44	-0.27809	1.34E-10	1.14E-09	515	515
DCDC2B	-0.27801	1.36E-10	1.15E-09	515	406
WASH3P	-0.278	1.36E-10	1.15E-09	515	515
IGSF9B	-0.278	1.36E-10	1.15E-09	515	501
SCML4	-0.27793	1.37E-10	1.16E-09	515	514
CLEC3B	-0.27792	1.38E-10	1.17E-09	515	515
C1QTNF4	-0.27791	1.38E-10	1.17E-09	515	462
A2M	-0.27783	1.40E-10	1.18E-09	515	515
CCL19	-0.27781	1.40E-10	1.19E-09	515	514
REC8	-0.2778	1.40E-10	1.19E-09	515	515
FEZ1	-0.27779	1.40E-10	1.19E-09	515	515
SORBS1	-0.27777	1.41E-10	1.19E-09	515	515
FOXI2	-0.27775	1.41E-10	1.19E-09	515	379
PPFIBP2	-0.2776	1.45E-10	1.22E-09	515	515
CD164L2	-0.27757	1.45E-10	1.23E-09	515	509
ARHGAP4	-0.27756	1.46E-10	1.23E-09	515	515
MZF1	-0.27753	1.46E-10	1.23E-09	515	515
INPP5K	-0.27749	1.47E-10	1.24E-09	515	515
IL5RA	-0.27742	1.49E-10	1.25E-09	515	485
REPS2	-0.27732	1.51E-10	1.27E-09	515	515
ACSM1	-0.2773	1.52E-10	1.28E-09	515	505
GOLGA6L	-0.2772	1.54E-10	1.29E-09	515	515
COL4A3	-0.27709	1.57E-10	1.32E-09	515	513
U2AF1L4	-0.27708	1.57E-10	1.32E-09	515	515
LTBP2	-0.27707	1.57E-10	1.32E-09	515	515

KRTAP5-8	-0.27706	1.57E-10	1.32E-09	515	340
PRX	-0.27692	1.61E-10	1.35E-09	515	515
IFT172	-0.27689	1.62E-10	1.36E-09	515	515
SIRT2	-0.27685	1.63E-10	1.36E-09	515	515
NCRNA00	-0.27676	1.65E-10	1.38E-09	515	515
CD81	-0.27675	1.65E-10	1.38E-09	515	515
TCIRG1	-0.27669	1.67E-10	1.39E-09	515	515
C1orf70	-0.27668	1.67E-10	1.39E-09	515	503
H1FNT	-0.27657	1.70E-10	1.42E-09	515	292
LYSMD4	-0.27657	1.70E-10	1.42E-09	515	515
C22orf15	-0.27655	1.71E-10	1.42E-09	515	498
ZFPM1	-0.27642	1.74E-10	1.45E-09	515	515
RHOG	-0.27641	1.74E-10	1.45E-09	515	515
FCER2	-0.27629	1.78E-10	1.48E-09	515	490
TLR7	-0.27628	1.78E-10	1.48E-09	515	515
P2RX7	-0.27624	1.79E-10	1.49E-09	515	515
RGL1	-0.27617	1.81E-10	1.50E-09	515	515
BDH2	-0.27613	1.82E-10	1.51E-09	515	515
LRRC29	-0.27612	1.83E-10	1.51E-09	515	515
SCN2B	-0.27608	1.84E-10	1.52E-09	515	503
SLC25A14	-0.27604	1.85E-10	1.53E-09	515	515
C2orf81	-0.276	1.86E-10	1.54E-09	515	515
CECR1	-0.27587	1.90E-10	1.57E-09	515	515
STX11	-0.27581	1.92E-10	1.58E-09	515	515
LOC28636	-0.27571	1.95E-10	1.61E-09	515	515
ST8SIA1	-0.2757	1.95E-10	1.61E-09	515	515
IKZF1	-0.2757	1.95E-10	1.61E-09	515	515
ASPRV1	-0.2757	1.95E-10	1.61E-09	515	515
C20orf56	-0.27567	1.96E-10	1.62E-09	515	505
S1PR2	-0.27555	2.00E-10	1.64E-09	515	515
COL29A1	-0.27546	2.02E-10	1.67E-09	515	506
PLB1	-0.27546	2.02E-10	1.67E-09	515	515
WDR52	-0.27545	2.03E-10	1.67E-09	515	515
NXF3	-0.27538	2.05E-10	1.69E-09	515	440
JAM2	-0.27537	2.05E-10	1.69E-09	515	515
RUFY4	-0.27519	2.11E-10	1.74E-09	515	508
FCN1	-0.27516	2.12E-10	1.74E-09	515	515
TEKT3	-0.27515	2.13E-10	1.75E-09	515	493
LOC10013	-0.27514	2.13E-10	1.75E-09	515	515
C6orf174	-0.27513	2.13E-10	1.75E-09	515	514
TSPYL4	-0.2751	2.14E-10	1.76E-09	515	515
RTP4	-0.27508	2.15E-10	1.76E-09	515	515
FBXO42	-0.27508	2.15E-10	1.76E-09	515	515
RABL2B	-0.27505	2.16E-10	1.77E-09	515	515

CD207	-0.27502	2.17E-10	1.78E-09	515	508
PDXDC2	-0.27501	2.17E-10	1.78E-09	515	515
LRRC39	-0.27491	2.21E-10	1.80E-09	515	505
FAM182A	-0.27482	2.24E-10	1.83E-09	515	369
GPER	-0.27482	2.24E-10	1.83E-09	515	515
CPAMD8	-0.27482	2.24E-10	1.83E-09	515	515
STOML1	-0.27479	2.25E-10	1.83E-09	515	515
DCAF15	-0.27477	2.26E-10	1.84E-09	515	515
PTPN7	-0.27476	2.26E-10	1.84E-09	515	515
DHRS3	-0.27475	2.26E-10	1.84E-09	515	515
DCP1B	-0.27473	2.27E-10	1.85E-09	515	515
COL23A1	-0.27463	2.31E-10	1.87E-09	515	514
LOC34911	-0.27459	2.32E-10	1.88E-09	515	515
TNFRSF1B	-0.27456	2.33E-10	1.89E-09	515	515
GIMAP2	-0.27446	2.37E-10	1.92E-09	515	515
C1orf92	-0.27442	2.38E-10	1.93E-09	515	402
C14orf28	-0.2744	2.39E-10	1.94E-09	515	515
TREX2	-0.27438	2.40E-10	1.94E-09	515	500
TPRG1L	-0.27433	2.42E-10	1.95E-09	515	515
CD28	-0.27431	2.42E-10	1.96E-09	515	515
ST3GAL2	-0.27431	2.42E-10	1.96E-09	515	515
C17orf59	-0.2743	2.43E-10	1.96E-09	515	515
C14orf178	-0.27426	2.44E-10	1.97E-09	515	305
NPHP4	-0.27425	2.45E-10	1.97E-09	515	515
PCSK7	-0.27411	2.50E-10	2.01E-09	515	515
CYB561D1	-0.27405	2.52E-10	2.03E-09	515	515
MMP28	-0.27403	2.53E-10	2.04E-09	515	514
SCARA3	-0.27401	2.54E-10	2.04E-09	515	515
HLF	-0.27393	2.57E-10	2.07E-09	515	515
GRK6	-0.27385	2.60E-10	2.09E-09	515	515
MRC2	-0.27382	2.61E-10	2.10E-09	515	515
CCDC141	-0.27377	2.63E-10	2.11E-09	515	514
UBXN6	-0.27377	2.64E-10	2.11E-09	515	515
CASS4	-0.27375	2.64E-10	2.12E-09	515	515
LOC72380	-0.27374	2.65E-10	2.12E-09	515	478
MECP2	-0.27373	2.65E-10	2.12E-09	515	515
DCLK2	-0.27369	2.67E-10	2.14E-09	515	515
KIAA0895L	-0.27367	2.68E-10	2.14E-09	515	515
GRAP2	-0.27364	2.69E-10	2.15E-09	515	515
BBC3	-0.27362	2.70E-10	2.16E-09	515	515
GGA1	-0.27361	2.70E-10	2.16E-09	515	515
SLC9A1	-0.27361	2.70E-10	2.16E-09	515	515
AANAT	-0.27354	2.73E-10	2.18E-09	515	333
SYNE1	-0.27351	2.74E-10	2.19E-09	515	515

VEGFB	-0.27351	2.74E-10	2.19E-09	515	515
ABR	-0.27348	2.76E-10	2.20E-09	515	515
MS4A2	-0.27344	2.77E-10	2.21E-09	515	513
B3GNT9	-0.27343	2.78E-10	2.21E-09	515	515
UBTD1	-0.27335	2.81E-10	2.24E-09	515	515
CXorf65	-0.27331	2.83E-10	2.25E-09	515	400
C8orf79	-0.27329	2.84E-10	2.26E-09	515	515
FAM160A	-0.27325	2.86E-10	2.27E-09	515	515
SLC5A4	-0.27324	2.86E-10	2.27E-09	515	455
SLC18A2	-0.27312	2.91E-10	2.31E-09	515	510
FAT4	-0.27303	2.96E-10	2.34E-09	515	515
NAPA	-0.27301	2.97E-10	2.35E-09	515	515
JDP2	-0.27295	2.99E-10	2.37E-09	515	515
MAPKBP1	-0.27283	3.05E-10	2.41E-09	515	515
TAOK2	-0.27282	3.05E-10	2.41E-09	515	515
SLC2A9	-0.27267	3.12E-10	2.47E-09	515	515
CNR1	-0.2726	3.16E-10	2.49E-09	515	513
FLT3	-0.27259	3.16E-10	2.50E-09	515	513
SLIT3	-0.27257	3.17E-10	2.50E-09	515	515
FMO3	-0.27252	3.20E-10	2.52E-09	515	515
C18orf16	-0.27251	3.20E-10	2.52E-09	515	399
CDK18	-0.27237	3.27E-10	2.58E-09	515	515
SMAP2	-0.2723	3.31E-10	2.60E-09	515	515
CCT6B	-0.2723	3.31E-10	2.60E-09	515	515
SPATA18	-0.27228	3.32E-10	2.61E-09	515	515
PADI2	-0.27223	3.35E-10	2.63E-09	515	515
CACNA1C	-0.27218	3.37E-10	2.64E-09	515	515
CTSG	-0.27216	3.38E-10	2.65E-09	515	492
RASGEF1B	-0.27194	3.50E-10	2.74E-09	515	515
FBXO44	-0.27187	3.54E-10	2.77E-09	515	515
C10orf81	-0.27183	3.56E-10	2.78E-09	515	512
PIWIL4	-0.27176	3.60E-10	2.81E-09	515	515
STAB1	-0.2717	3.63E-10	2.84E-09	515	515
PAOX	-0.27167	3.65E-10	2.85E-09	515	515
CCDC107	-0.27165	3.66E-10	2.86E-09	515	515
STX4	-0.27159	3.69E-10	2.88E-09	515	515
ZNF580	-0.27157	3.70E-10	2.89E-09	515	515
WNT3A	-0.27156	3.71E-10	2.89E-09	515	481
C15orf51	-0.27151	3.74E-10	2.91E-09	515	467
LDLRAD2	-0.27149	3.75E-10	2.92E-09	515	515
CD48	-0.27148	3.75E-10	2.92E-09	515	515
MYL3	-0.27146	3.77E-10	2.93E-09	515	451
SYTL2	-0.27144	3.78E-10	2.94E-09	515	515
ADH1A	-0.27136	3.82E-10	2.98E-09	515	453

ZNF589	-0.27134	3.83E-10	2.98E-09	515	515
KBTBD10	-0.27131	3.86E-10	3.00E-09	515	515
BTN3A1	-0.2713	3.86E-10	3.00E-09	515	515
TRIM3	-0.27129	3.87E-10	3.00E-09	515	515
LHFP	-0.27126	3.88E-10	3.01E-09	515	515
NCF1C	-0.27115	3.95E-10	3.06E-09	515	515
TTYH2	-0.27108	3.99E-10	3.09E-09	515	515
ZER1	-0.27107	4.00E-10	3.10E-09	515	515
LOC38815	-0.27103	4.02E-10	3.12E-09	515	515
GHR	-0.27098	4.06E-10	3.14E-09	515	515
SCN1A	-0.27091	4.10E-10	3.17E-09	515	491
CCRL2	-0.27088	4.12E-10	3.18E-09	515	515
C10orf67	-0.27076	4.20E-10	3.24E-09	515	423
PCDHGC3	-0.27063	4.28E-10	3.30E-09	515	515
WDR83	-0.2706	4.30E-10	3.32E-09	515	515
C19orf60	-0.2706	4.30E-10	3.32E-09	515	515
CNTNAP1	-0.27052	4.35E-10	3.36E-09	515	515
TBC1D22A	-0.27051	4.36E-10	3.36E-09	515	515
C1orf230	-0.27043	4.41E-10	3.40E-09	515	400
IQCG	-0.27026	4.53E-10	3.49E-09	515	515
TEP1	-0.27016	4.60E-10	3.54E-09	515	515
GIMAP8	-0.27005	4.68E-10	3.59E-09	515	515
EPOR	-0.27001	4.71E-10	3.62E-09	515	515
TMEM149	-0.26993	4.76E-10	3.66E-09	515	515
NDN	-0.26983	4.84E-10	3.71E-09	515	515
FMNL3	-0.26983	4.84E-10	3.71E-09	515	515
GGTLC1	-0.26979	4.86E-10	3.73E-09	515	513
RAPSN	-0.26977	4.88E-10	3.74E-09	515	421
RETN	-0.26976	4.89E-10	3.74E-09	515	480
BIN2	-0.26973	4.91E-10	3.75E-09	515	515
NRADDP	-0.26969	4.94E-10	3.78E-09	515	457
FGFR2	-0.26955	5.05E-10	3.86E-09	515	515
NCR3	-0.26953	5.06E-10	3.86E-09	515	513
C10orf128	-0.2695	5.08E-10	3.88E-09	515	515
IGSF10	-0.26945	5.13E-10	3.91E-09	515	515
CGB7	-0.26944	5.13E-10	3.92E-09	515	488
ZBP1	-0.26944	5.13E-10	3.92E-09	515	515
ZNF471	-0.26942	5.15E-10	3.92E-09	515	515
DCAF5	-0.26942	5.15E-10	3.93E-09	515	515
MS4A15	-0.26939	5.17E-10	3.94E-09	515	498
LBH	-0.26936	5.20E-10	3.96E-09	515	515
MAN2C1	-0.26927	5.27E-10	4.01E-09	515	515
TBC1D10A	-0.26925	5.28E-10	4.01E-09	515	515
LGI4	-0.26922	5.30E-10	4.03E-09	515	515

LILRB5	-0.26922	5.31E-10	4.03E-09	515	515
TTC25	-0.26916	5.35E-10	4.06E-09	515	515
TTC14	-0.2691	5.40E-10	4.10E-09	515	515
RASL12	-0.2691	5.40E-10	4.10E-09	515	515
PRDM2	-0.26904	5.46E-10	4.13E-09	515	515
NCDN	-0.26893	5.55E-10	4.20E-09	515	515
TGM1	-0.26891	5.57E-10	4.21E-09	515	515
TXNDC6	-0.2689	5.57E-10	4.22E-09	515	511
DUSP15	-0.26887	5.60E-10	4.23E-09	515	503
ESAM	-0.26884	5.62E-10	4.25E-09	515	515
STARD13	-0.26878	5.68E-10	4.29E-09	515	515
SNED1	-0.26859	5.84E-10	4.40E-09	515	515
FLJ34503	-0.26858	5.85E-10	4.41E-09	515	281
TUBA1A	-0.26851	5.91E-10	4.46E-09	515	515
CD200R1	-0.26848	5.94E-10	4.47E-09	515	515
MRI1	-0.26844	5.97E-10	4.50E-09	515	515
SPATC1	-0.26843	5.99E-10	4.51E-09	515	496
CD14	-0.26838	6.03E-10	4.54E-09	515	515
LOC14841	-0.26818	6.22E-10	4.68E-09	515	515
TOR2A	-0.26815	6.25E-10	4.69E-09	515	515
PCDP1	-0.26809	6.30E-10	4.73E-09	515	512
HSD17B6	-0.26809	6.31E-10	4.74E-09	515	515
KAL1	-0.26802	6.37E-10	4.78E-09	515	515
TMEM150	-0.26799	6.40E-10	4.80E-09	515	513
SCMH1	-0.26798	6.41E-10	4.80E-09	515	515
CD79B	-0.26796	6.43E-10	4.82E-09	515	515
APOBEC4	-0.26784	6.54E-10	4.90E-09	515	432
C7orf63	-0.26784	6.54E-10	4.90E-09	515	515
CD6	-0.2677	6.69E-10	5.00E-09	515	515
QTRT1	-0.26755	6.84E-10	5.11E-09	515	515
ISM1	-0.26751	6.88E-10	5.14E-09	515	515
C1orf200	-0.26751	6.88E-10	5.14E-09	515	426
ALPK1	-0.2675	6.89E-10	5.14E-09	515	515
COQ4	-0.26746	6.94E-10	5.18E-09	515	515
SLC35A4	-0.26744	6.95E-10	5.19E-09	515	515
LRRC55	-0.26736	7.04E-10	5.25E-09	515	503
LRRC4	-0.26734	7.06E-10	5.27E-09	515	515
C6orf1	-0.26733	7.07E-10	5.27E-09	515	515
PHACTR1	-0.26732	7.08E-10	5.27E-09	515	515
RNF146	-0.2673	7.10E-10	5.29E-09	515	515
AHDC1	-0.26721	7.20E-10	5.36E-09	515	515
SH2B3	-0.26713	7.28E-10	5.42E-09	515	515
SGSH	-0.26711	7.31E-10	5.44E-09	515	515
LOC28474	-0.26706	7.37E-10	5.48E-09	515	471

SGSM2	-0.26704	7.39E-10	5.50E-09	515	515
IRF3	-0.26692	7.52E-10	5.59E-09	515	515
CHST7	-0.26692	7.52E-10	5.59E-09	515	515
CLEC4GP1	-0.26684	7.62E-10	5.65E-09	515	416
C22orf13	-0.2668	7.66E-10	5.69E-09	515	515
ZNF132	-0.26671	7.77E-10	5.76E-09	515	515
CR1	-0.26655	7.96E-10	5.90E-09	515	515
LAPTM5	-0.26645	8.08E-10	5.98E-09	515	515
PNPLA2	-0.26644	8.09E-10	5.99E-09	515	515
AGER	-0.26633	8.22E-10	6.08E-09	515	515
DPP7	-0.26624	8.34E-10	6.16E-09	515	515
DHRS12	-0.26603	8.60E-10	6.34E-09	515	515
MS4A6A	-0.266	8.65E-10	6.38E-09	515	515
PSMB10	-0.26598	8.67E-10	6.39E-09	515	515
ADAM8	-0.26598	8.67E-10	6.39E-09	515	515
KIAA0495	-0.26592	8.74E-10	6.44E-09	515	515
C7orf58	-0.26591	8.76E-10	6.45E-09	515	515
PRELP	-0.26586	8.83E-10	6.49E-09	515	515
ZNF474	-0.26582	8.87E-10	6.52E-09	515	510
RUNX3	-0.26574	8.99E-10	6.60E-09	515	515
ATP1A4	-0.26574	8.99E-10	6.60E-09	515	378
LOC15368	-0.26573	9.00E-10	6.60E-09	515	515
ILK	-0.2657	9.04E-10	6.63E-09	515	515
MRC1	-0.26563	9.13E-10	6.70E-09	515	515
PECAM1	-0.26541	9.44E-10	6.92E-09	515	515
IRX2	-0.26528	9.63E-10	7.05E-09	515	514
BBS5	-0.26523	9.70E-10	7.10E-09	515	515
TWF2	-0.26521	9.73E-10	7.12E-09	515	515
TXNDC3	-0.26509	9.90E-10	7.24E-09	515	483
UROD	-0.26504	9.98E-10	7.29E-09	515	515
LY6G5B	-0.26503	9.99E-10	7.29E-09	515	515
ARFGAP2	-0.26503	1.00E-09	7.29E-09	515	515
MAPK15	-0.26496	1.01E-09	7.37E-09	515	510
LOC26102	-0.26482	1.03E-09	7.52E-09	515	338
JAK3	-0.26481	1.03E-09	7.53E-09	515	515
ANKDD1A	-0.26472	1.05E-09	7.63E-09	515	515
ZNF557	-0.26472	1.05E-09	7.63E-09	515	515
MAMDC4	-0.26467	1.05E-09	7.67E-09	515	515
ZBTB22	-0.26454	1.08E-09	7.83E-09	515	515
CLEC14A	-0.26446	1.09E-09	7.91E-09	515	515
CDO1	-0.26441	1.10E-09	7.98E-09	515	514
DIRAS3	-0.26439	1.10E-09	7.99E-09	515	513
ITIH4	-0.26439	1.10E-09	7.99E-09	515	515
CTSS	-0.26436	1.11E-09	8.02E-09	515	515

C9orf68	-0.26436	1.11E-09	8.02E-09	515	515
IRF5	-0.26431	1.11E-09	8.07E-09	515	515
MAP1LC3	-0.26422	1.13E-09	8.17E-09	515	515
NCF1B	-0.26422	1.13E-09	8.17E-09	515	514
DYNC2H1	-0.26422	1.13E-09	8.17E-09	515	515
CSF2RB	-0.26421	1.13E-09	8.17E-09	515	515
GRAP	-0.2642	1.13E-09	8.19E-09	515	515
NPC2	-0.26419	1.13E-09	8.20E-09	515	515
FANK1	-0.26411	1.15E-09	8.29E-09	515	514
SLC6A20	-0.2641	1.15E-09	8.30E-09	515	509
ADRB3	-0.264	1.17E-09	8.41E-09	515	438
ABCC6	-0.26395	1.17E-09	8.47E-09	515	515
ZFP90	-0.26383	1.20E-09	8.61E-09	515	515
UBASH3A	-0.26383	1.20E-09	8.61E-09	515	514
ZNF785	-0.26378	1.20E-09	8.67E-09	515	515
ORAI3	-0.26378	1.20E-09	8.67E-09	515	515
LAT2	-0.26375	1.21E-09	8.71E-09	515	515
C1orf87	-0.26369	1.22E-09	8.77E-09	515	416
APBB1IP	-0.26368	1.22E-09	8.78E-09	515	515
CLEC7A	-0.26362	1.23E-09	8.86E-09	515	515
POMT1	-0.26354	1.25E-09	8.96E-09	515	515
ASAP3	-0.26347	1.26E-09	9.06E-09	515	515
SH3GLB2	-0.26345	1.27E-09	9.08E-09	515	515
FAM92B	-0.26341	1.27E-09	9.12E-09	515	501
CCDC96	-0.26339	1.28E-09	9.15E-09	515	515
ZNF137	-0.26333	1.29E-09	9.23E-09	515	515
GGT8P	-0.26329	1.30E-09	9.27E-09	515	472
TUBA4B	-0.26329	1.30E-09	9.28E-09	515	474
GNB3	-0.26328	1.30E-09	9.28E-09	515	513
DDB2	-0.26324	1.31E-09	9.34E-09	515	515
ABCC12	-0.26308	1.34E-09	9.54E-09	515	286
ARHGAP2	-0.26306	1.34E-09	9.57E-09	515	515
ANKMY1	-0.26291	1.37E-09	9.77E-09	515	515
CSF1	-0.26287	1.38E-09	9.82E-09	515	515
ACBD4	-0.26271	1.41E-09	1.01E-08	515	515
SESN2	-0.26271	1.41E-09	1.01E-08	515	515
CA13	-0.2627	1.41E-09	1.01E-08	515	515
ZNF835	-0.26264	1.43E-09	1.01E-08	515	506
CCDC135	-0.26263	1.43E-09	1.02E-08	515	483
LRRC8C	-0.26263	1.43E-09	1.02E-08	515	515
PLIN5	-0.26262	1.43E-09	1.02E-08	515	515
PLXNB2	-0.26252	1.45E-09	1.03E-08	515	515
GNG2	-0.26251	1.46E-09	1.03E-08	515	515
SPIB	-0.2625	1.46E-09	1.03E-08	515	515

FAM70A	-0.2625	1.46E-09	1.03E-08	515	515
ADARB1	-0.26242	1.47E-09	1.04E-08	515	515
C2orf85	-0.2624	1.48E-09	1.05E-08	515	401
C15orf27	-0.26238	1.48E-09	1.05E-08	515	515
C17orf108	-0.26233	1.50E-09	1.06E-08	515	515
KIAA1009	-0.26232	1.50E-09	1.06E-08	515	515
IQCC	-0.26226	1.51E-09	1.07E-08	515	515
CYTH3	-0.26217	1.53E-09	1.08E-08	515	515
C6	-0.2621	1.55E-09	1.09E-08	515	491
DNAI1	-0.26208	1.55E-09	1.09E-08	515	474
NCRNA00	-0.26206	1.55E-09	1.10E-08	515	515
CNGA4	-0.26206	1.56E-09	1.10E-08	515	493
SIGLEC7	-0.26198	1.58E-09	1.11E-08	515	515
NMBR	-0.26182	1.61E-09	1.13E-08	515	245
CCDC8	-0.26182	1.61E-09	1.13E-08	515	515
NARFL	-0.26173	1.63E-09	1.15E-08	515	515
CLUAP1	-0.2616	1.66E-09	1.17E-08	515	515
C1orf127	-0.26147	1.70E-09	1.19E-08	515	508
PACRG	-0.26144	1.71E-09	1.20E-08	515	479
ITGA7	-0.26143	1.71E-09	1.20E-08	515	515
JUND	-0.26138	1.72E-09	1.21E-08	515	515
C15orf34	-0.26128	1.75E-09	1.22E-08	515	515
LOC10023	-0.26127	1.75E-09	1.23E-08	515	514
2-Mar	-0.26127	1.75E-09	1.23E-08	515	515
C7orf41	-0.26105	1.81E-09	1.26E-08	515	515
C14orf49	-0.26095	1.83E-09	1.28E-08	515	514
CD2BP2	-0.26094	1.84E-09	1.28E-08	515	515
ZNF337	-0.26085	1.86E-09	1.30E-08	515	515
CD53	-0.26084	1.86E-09	1.30E-08	515	515
SLC22A20	-0.26079	1.88E-09	1.31E-08	515	512
SUGT1L1	-0.26078	1.88E-09	1.31E-08	515	515
CLCN7	-0.26077	1.88E-09	1.31E-08	515	515
ADC	-0.26077	1.88E-09	1.31E-08	515	515
PILRA	-0.26076	1.89E-09	1.32E-08	515	515
C19orf35	-0.26074	1.89E-09	1.32E-08	515	512
LTA	-0.26065	1.92E-09	1.34E-08	515	513
LOC34234	-0.26063	1.92E-09	1.34E-08	515	466
DBNL	-0.26061	1.93E-09	1.34E-08	515	515
BTG2	-0.26055	1.94E-09	1.35E-08	515	515
CACNA1F	-0.26047	1.97E-09	1.37E-08	515	510
MAP2K7	-0.26043	1.98E-09	1.37E-08	515	515
STAC	-0.2604	1.99E-09	1.38E-08	515	515
BANK1	-0.2604	1.99E-09	1.38E-08	515	515
CNR2	-0.26035	2.00E-09	1.39E-08	515	488

AP1S2	-0.26035	2.00E-09	1.39E-08	515	515
NTN5	-0.26031	2.01E-09	1.40E-08	515	486
GHDC	-0.26018	2.05E-09	1.42E-08	515	515
RFX1	-0.26014	2.06E-09	1.43E-08	515	515
GPD1	-0.26007	2.09E-09	1.44E-08	515	515
GCNT4	-0.26002	2.10E-09	1.46E-08	515	512
GARNL3	-0.25996	2.12E-09	1.47E-08	515	515
STMN3	-0.25995	2.12E-09	1.47E-08	515	515
FOXJ1	-0.25993	2.13E-09	1.47E-08	515	515
ST7OT1	-0.25987	2.15E-09	1.48E-08	515	515
TMEM231	-0.25983	2.16E-09	1.49E-08	515	515
RNASE13	-0.25977	2.18E-09	1.50E-08	515	237
CYP2U1	-0.25976	2.18E-09	1.51E-08	515	515
RSPH4A	-0.25968	2.21E-09	1.52E-08	515	513
LDLRAP1	-0.25966	2.22E-09	1.53E-08	515	515
ETV1	-0.25965	2.22E-09	1.53E-08	515	515
GPM6A	-0.25962	2.23E-09	1.53E-08	515	500
MEOX2	-0.25957	2.24E-09	1.54E-08	515	515
PLA2G5	-0.25954	2.25E-09	1.55E-08	515	514
XAF1	-0.25954	2.25E-09	1.55E-08	515	515
C19orf71	-0.25949	2.27E-09	1.56E-08	515	508
C1orf126	-0.25947	2.28E-09	1.57E-08	515	515
ZNF224	-0.25945	2.28E-09	1.57E-08	515	515
TELO2	-0.25934	2.32E-09	1.59E-08	515	515
NUDT18	-0.2593	2.33E-09	1.60E-08	515	515
GIMAP6	-0.25927	2.35E-09	1.61E-08	515	515
TRIP6	-0.25916	2.38E-09	1.64E-08	515	515
TMEM232	-0.25914	2.39E-09	1.64E-08	515	493
ZBTB3	-0.25912	2.40E-09	1.64E-08	515	515
ULK3	-0.25912	2.40E-09	1.64E-08	515	515
SDR39U1	-0.25907	2.42E-09	1.65E-08	515	515
REEP1	-0.25906	2.42E-09	1.65E-08	515	515
SLC9A5	-0.25905	2.42E-09	1.66E-08	515	515
CDHR4	-0.25903	2.43E-09	1.66E-08	515	455
CDK5RAP3	-0.25899	2.44E-09	1.67E-08	515	515
OSBPL6	-0.25897	2.45E-09	1.67E-08	515	515
PLCL1	-0.25893	2.47E-09	1.68E-08	515	515
ADAMTSL	-0.25886	2.49E-09	1.70E-08	515	515
ASB2	-0.25885	2.50E-09	1.70E-08	515	515
SIRPA	-0.25882	2.50E-09	1.71E-08	515	515
FABP3	-0.2588	2.51E-09	1.71E-08	515	515
GLI1	-0.25876	2.52E-09	1.72E-08	515	514
C19orf56	-0.25875	2.53E-09	1.72E-08	515	515
GCDH	-0.25864	2.57E-09	1.75E-08	515	515

P2RY8	-0.25861	2.58E-09	1.76E-08	515	515
C20orf123	-0.25859	2.59E-09	1.76E-08	515	275
C9orf135	-0.25859	2.59E-09	1.76E-08	515	446
NPPA	-0.25858	2.59E-09	1.76E-08	515	436
GPR18	-0.25857	2.60E-09	1.76E-08	515	515
LOC44120	-0.25857	2.60E-09	1.76E-08	515	515
SPARCL1	-0.25854	2.61E-09	1.77E-08	515	515
CCDC151	-0.25848	2.63E-09	1.78E-08	515	514
DNAJC5B	-0.25846	2.64E-09	1.79E-08	515	515
EFCAB1	-0.25842	2.66E-09	1.80E-08	515	507
STK19	-0.25837	2.67E-09	1.81E-08	515	515
PRG4	-0.25832	2.69E-09	1.82E-08	515	515
SIT1	-0.25831	2.70E-09	1.82E-08	515	514
C16orf55	-0.25829	2.71E-09	1.83E-08	515	515
TMEM86A	-0.25821	2.74E-09	1.85E-08	515	515
ZNF423	-0.25818	2.75E-09	1.86E-08	515	515
RGMA	-0.25818	2.75E-09	1.86E-08	515	514
TCTE1	-0.25817	2.76E-09	1.86E-08	515	425
ZNF781	-0.25814	2.76E-09	1.87E-08	515	515
ELOF1	-0.25814	2.77E-09	1.87E-08	515	515
GYPE	-0.25801	2.82E-09	1.90E-08	515	504
YSK4	-0.25797	2.83E-09	1.91E-08	515	467
FAM3D	-0.25797	2.83E-09	1.91E-08	515	503
HSF4	-0.25795	2.84E-09	1.91E-08	515	515
CLEC1A	-0.25794	2.85E-09	1.92E-08	515	515
FCAMR	-0.25785	2.88E-09	1.94E-08	515	461
SCAND2	-0.25782	2.90E-09	1.95E-08	515	515
MAOB	-0.2578	2.91E-09	1.95E-08	515	515
CASQ2	-0.25779	2.91E-09	1.96E-08	515	498
TAB1	-0.25778	2.91E-09	1.96E-08	515	515
HSD17B3	-0.25775	2.93E-09	1.96E-08	515	403
C1orf173	-0.25774	2.93E-09	1.97E-08	515	481
CSK	-0.25772	2.94E-09	1.97E-08	515	515
DNAH12	-0.2577	2.95E-09	1.98E-08	515	490
MAL	-0.25767	2.96E-09	1.99E-08	515	515
CALHM2	-0.25763	2.98E-09	2.00E-08	515	515
NSUN5P2	-0.2576	2.99E-09	2.00E-08	515	515
ZNF354B	-0.25756	3.01E-09	2.02E-08	515	515
MFRP	-0.25751	3.03E-09	2.03E-08	515	515
BMP3	-0.25748	3.04E-09	2.03E-08	515	514
USP2	-0.25745	3.06E-09	2.04E-08	515	513
RARRES2	-0.25743	3.07E-09	2.05E-08	515	515
C20orf26	-0.25729	3.13E-09	2.09E-08	515	500
CST3	-0.25724	3.15E-09	2.10E-08	515	515

GLIS2	-0.25719	3.17E-09	2.12E-08	515	515
FAM23A	-0.25719	3.18E-09	2.12E-08	515	513
C16orf71	-0.25715	3.19E-09	2.13E-08	515	515
TCEA2	-0.25714	3.20E-09	2.13E-08	515	515
GSDMD	-0.25704	3.25E-09	2.16E-08	515	515
RAB20	-0.25703	3.25E-09	2.16E-08	515	515
TMEM151	-0.25703	3.25E-09	2.16E-08	515	514
WDR38	-0.25701	3.26E-09	2.16E-08	515	462
C6orf105	-0.25701	3.26E-09	2.17E-08	515	513
CLEC12A	-0.25696	3.28E-09	2.18E-08	515	515
KCNC3	-0.25694	3.29E-09	2.19E-08	515	515
CXCR5	-0.25689	3.31E-09	2.20E-08	515	515
PHYHD1	-0.25688	3.32E-09	2.20E-08	515	515
FBXL7	-0.25682	3.35E-09	2.22E-08	515	515
RG9MTD3	-0.25678	3.37E-09	2.23E-08	515	515
MAML2	-0.25673	3.39E-09	2.25E-08	515	515
SHC3	-0.25671	3.40E-09	2.25E-08	515	514
DNAH9	-0.25652	3.50E-09	2.31E-08	515	495
TBXAS1	-0.25649	3.52E-09	2.32E-08	515	515
MYL9	-0.25648	3.52E-09	2.33E-08	515	515
ZNF804A	-0.2564	3.56E-09	2.35E-08	515	511
LOC28392	-0.25632	3.60E-09	2.38E-08	515	515
CCDC40	-0.25631	3.61E-09	2.38E-08	515	515
NIPSNAP3	-0.25627	3.63E-09	2.39E-08	515	515
DAB2	-0.25624	3.64E-09	2.40E-08	515	515
MYH3	-0.25624	3.64E-09	2.40E-08	515	515
EPM2A	-0.2562	3.66E-09	2.41E-08	515	515
ACAD8	-0.25619	3.67E-09	2.42E-08	515	515
PYGM	-0.25615	3.69E-09	2.43E-08	515	514
RAB37	-0.2561	3.72E-09	2.45E-08	515	515
TRIM61	-0.25609	3.72E-09	2.45E-08	515	499
LDB3	-0.25609	3.72E-09	2.45E-08	515	514
CYP3A7	-0.25605	3.74E-09	2.46E-08	515	395
F10	-0.25596	3.80E-09	2.50E-08	515	514
TBX3	-0.25587	3.84E-09	2.52E-08	515	515
PTCH1	-0.25587	3.84E-09	2.52E-08	515	515
LOC40002	-0.25577	3.90E-09	2.56E-08	515	515
PGS1	-0.25575	3.91E-09	2.56E-08	515	515
LILRA4	-0.25573	3.92E-09	2.57E-08	515	505
CD247	-0.25561	3.99E-09	2.61E-08	515	515
ACACB	-0.25555	4.02E-09	2.63E-08	515	515
COL27A1	-0.25548	4.06E-09	2.66E-08	515	515
CYP2D7P1	-0.25543	4.09E-09	2.67E-08	515	505
TLE2	-0.25542	4.10E-09	2.68E-08	515	515

CPT1B	-0.2554	4.11E-09	2.68E-08	515	515
LOC10013	-0.25539	4.12E-09	2.69E-08	515	515
SERPIND1	-0.25532	4.16E-09	2.71E-08	515	504
GRM3	-0.25527	4.19E-09	2.73E-08	515	400
FAM43A	-0.25526	4.20E-09	2.73E-08	515	515
TP53INP1	-0.25514	4.27E-09	2.78E-08	515	515
SYS1-DBN	-0.25511	4.29E-09	2.79E-08	515	470
KLHL3	-0.25508	4.30E-09	2.80E-08	515	515
C20orf134	-0.25507	4.31E-09	2.80E-08	515	515
NPIPL3	-0.25501	4.35E-09	2.82E-08	515	515
SCD5	-0.25499	4.36E-09	2.83E-08	515	515
ADRA1A	-0.25495	4.38E-09	2.85E-08	515	341
SLC18A1	-0.25492	4.40E-09	2.85E-08	515	362
SCARF2	-0.25482	4.47E-09	2.90E-08	515	515
LOC33929	-0.2548	4.48E-09	2.90E-08	515	515
TMEM229	-0.2547	4.55E-09	2.94E-08	515	515
WDR49	-0.25462	4.60E-09	2.97E-08	515	483
UPB1	-0.25461	4.61E-09	2.98E-08	515	500
PRKCD	-0.25456	4.64E-09	2.99E-08	515	515
TCEANC	-0.2545	4.68E-09	3.02E-08	515	515
NAP1L3	-0.25447	4.70E-09	3.03E-08	515	515
RUNDC2C	-0.25438	4.76E-09	3.07E-08	515	515
CCL28	-0.25435	4.78E-09	3.08E-08	515	514
TIFAB	-0.25431	4.81E-09	3.09E-08	515	504
C21orf15	-0.25424	4.86E-09	3.12E-08	515	457
TSPAN9	-0.25423	4.86E-09	3.12E-08	515	515
SMAD6	-0.25422	4.87E-09	3.13E-08	515	515
HECTD3	-0.25421	4.88E-09	3.13E-08	515	515
ZNF691	-0.2542	4.89E-09	3.14E-08	515	515
SCN7A	-0.2541	4.96E-09	3.18E-08	515	514
KCNA6	-0.25407	4.97E-09	3.19E-08	515	497
C3orf71	-0.25406	4.98E-09	3.19E-08	515	515
C6orf118	-0.25404	5.00E-09	3.20E-08	515	407
LZTR1	-0.25393	5.08E-09	3.25E-08	515	515
LOC14457	-0.25389	5.11E-09	3.26E-08	515	515
BATF	-0.25384	5.14E-09	3.28E-08	515	515
TUBA8	-0.25382	5.15E-09	3.29E-08	515	515
GIGYF1	-0.25382	5.16E-09	3.29E-08	515	515
XKR6	-0.25382	5.16E-09	3.29E-08	515	494
TNNT3	-0.25379	5.18E-09	3.30E-08	515	352
LRGUK	-0.25375	5.21E-09	3.32E-08	515	501
PCF11	-0.25369	5.25E-09	3.35E-08	515	515
STARD8	-0.25368	5.26E-09	3.35E-08	515	515
TPSG1	-0.25367	5.27E-09	3.35E-08	515	429

SDC3	-0.25367	5.27E-09	3.35E-08	515	515
FAM95B1	-0.25362	5.30E-09	3.37E-08	515	512
PLEKHG1	-0.25358	5.34E-09	3.39E-08	515	515
FRZB	-0.25357	5.35E-09	3.40E-08	515	515
FOXF1	-0.2535	5.40E-09	3.43E-08	515	515
CNKSR2	-0.25341	5.47E-09	3.47E-08	515	484
ZNF414	-0.25332	5.54E-09	3.51E-08	515	515
CAMK2A	-0.25332	5.54E-09	3.51E-08	515	509
EFNB1	-0.25327	5.58E-09	3.54E-08	515	515
ZC3H12D	-0.25319	5.64E-09	3.58E-08	515	514
KCTD12	-0.25316	5.67E-09	3.59E-08	515	515
ZNF789	-0.2531	5.72E-09	3.62E-08	515	515
C8orf34	-0.25308	5.73E-09	3.63E-08	515	505
PBXIP1	-0.25293	5.86E-09	3.70E-08	515	515
NME3	-0.25291	5.87E-09	3.71E-08	515	515
TCAP	-0.25271	6.04E-09	3.81E-08	515	505
LOC44046	-0.2527	6.05E-09	3.82E-08	515	500
ZBBX	-0.25258	6.15E-09	3.88E-08	515	441
CD44	-0.25253	6.19E-09	3.91E-08	515	515
RSPH10B2	-0.25253	6.20E-09	3.91E-08	515	492
STAG3L3	-0.25251	6.22E-09	3.92E-08	515	515
BBS1	-0.25249	6.23E-09	3.93E-08	515	515
C20orf195	-0.25247	6.25E-09	3.94E-08	515	496
C18orf18	-0.25244	6.27E-09	3.95E-08	515	515
CNIH3	-0.25238	6.33E-09	3.98E-08	515	515
PCYT1B	-0.25238	6.33E-09	3.98E-08	515	512
NSUN5P1	-0.25231	6.40E-09	4.02E-08	515	515
RXRA	-0.25227	6.43E-09	4.04E-08	515	515
WFDC2	-0.25227	6.43E-09	4.04E-08	515	515
PINK1	-0.25226	6.44E-09	4.04E-08	515	515
AK1	-0.25223	6.47E-09	4.06E-08	515	515
PKD2	-0.25221	6.49E-09	4.07E-08	515	515
MACF1	-0.25218	6.51E-09	4.08E-08	515	515
AP1G2	-0.25209	6.59E-09	4.13E-08	515	515
RGS22	-0.25207	6.62E-09	4.14E-08	515	499
HEMGN	-0.25201	6.67E-09	4.18E-08	515	317
LOC13446	-0.25198	6.70E-09	4.19E-08	515	510
C11orf35	-0.25196	6.72E-09	4.20E-08	515	515
CDH20	-0.25194	6.74E-09	4.21E-08	515	415
TOE1	-0.25194	6.74E-09	4.21E-08	515	515
LOC28373	-0.25192	6.76E-09	4.22E-08	515	496
GIMAP4	-0.25184	6.84E-09	4.27E-08	515	515
LOC54147	-0.25184	6.84E-09	4.27E-08	515	493
SF4	-0.25182	6.85E-09	4.28E-08	515	515

CDC14A	-0.25178	6.90E-09	4.30E-08	515	515
CD5	-0.25176	6.92E-09	4.31E-08	515	515
GOLGA2B	-0.2516	7.07E-09	4.41E-08	515	515
KRTAP5-1	-0.25156	7.11E-09	4.43E-08	515	341
CCDC57	-0.25151	7.16E-09	4.46E-08	515	515
APOC4	-0.25142	7.25E-09	4.52E-08	515	373
SIGLEC6	-0.25141	7.26E-09	4.52E-08	515	497
VWA5B1	-0.25136	7.31E-09	4.55E-08	515	304
SEMA6D	-0.25129	7.39E-09	4.59E-08	515	515
L3MBTL2	-0.25122	7.46E-09	4.64E-08	515	515
UCKL1AS	-0.25121	7.47E-09	4.64E-08	515	513
TBX4	-0.25119	7.50E-09	4.65E-08	515	515
C1orf54	-0.25114	7.54E-09	4.68E-08	515	515
CDK20	-0.25104	7.65E-09	4.75E-08	515	515
XPC	-0.25098	7.72E-09	4.79E-08	515	515
LGALS12	-0.25097	7.73E-09	4.79E-08	515	485
ZNF345	-0.2509	7.81E-09	4.84E-08	515	515
SORCS2	-0.25087	7.84E-09	4.86E-08	515	515
WBSCR17	-0.25086	7.85E-09	4.86E-08	515	514
DNAH7	-0.25084	7.87E-09	4.87E-08	515	513
ANO2	-0.25084	7.87E-09	4.87E-08	515	510
PPM1F	-0.25082	7.90E-09	4.89E-08	515	515
ROS1	-0.2508	7.92E-09	4.90E-08	515	515
RNF165	-0.25078	7.94E-09	4.91E-08	515	501
FAM180A	-0.25076	7.96E-09	4.92E-08	515	511
LRRC18	-0.25066	8.08E-09	4.99E-08	515	466
C17orf65	-0.25066	8.08E-09	4.99E-08	515	515
LOC38838	-0.25065	8.09E-09	4.99E-08	515	265
TIAM1	-0.25064	8.10E-09	4.99E-08	515	515
TSC22D4	-0.2506	8.14E-09	5.02E-08	515	515
BEX4	-0.25057	8.18E-09	5.04E-08	515	515
NBL1	-0.25048	8.28E-09	5.10E-08	515	515
GRIK4	-0.25048	8.28E-09	5.10E-08	515	478
DMTF1	-0.25044	8.33E-09	5.12E-08	515	515
CCL23	-0.25043	8.34E-09	5.13E-08	515	504
VWC2	-0.25041	8.37E-09	5.14E-08	515	335
ARMC2	-0.2504	8.38E-09	5.15E-08	515	515
CTSO	-0.25027	8.53E-09	5.24E-08	515	515
NCRNA00	-0.2502	8.62E-09	5.29E-08	515	515
MORN5	-0.25013	8.70E-09	5.33E-08	515	440
NCRNA00	-0.24998	8.89E-09	5.44E-08	515	515
CXCL12	-0.24988	9.01E-09	5.51E-08	515	515
AMY1A	-0.24986	9.03E-09	5.52E-08	515	514
ZNF154	-0.24968	9.28E-09	5.67E-08	515	515

PKD1L3	-0.24965	9.31E-09	5.69E-08	515	414
LOC10012	-0.24963	9.34E-09	5.70E-08	515	515
NCKAP5L	-0.24961	9.36E-09	5.71E-08	515	515
CD27	-0.2496	9.37E-09	5.72E-08	515	515
FAM153B	-0.24957	9.41E-09	5.74E-08	515	373
LOC90834	-0.24954	9.45E-09	5.76E-08	515	515
C1QB	-0.24953	9.46E-09	5.77E-08	515	515
ZNF446	-0.24951	9.49E-09	5.78E-08	515	515
FARP2	-0.24951	9.50E-09	5.79E-08	515	515
JAZF1	-0.24948	9.53E-09	5.81E-08	515	515
COL11A2	-0.24943	9.60E-09	5.84E-08	515	512
DMAP1	-0.24943	9.60E-09	5.84E-08	515	515
ZFYVE1	-0.24933	9.74E-09	5.92E-08	515	515
COTL1	-0.24929	9.79E-09	5.95E-08	515	515
C9orf7	-0.24929	9.79E-09	5.95E-08	515	515
PIP5K1C	-0.24922	9.88E-09	6.01E-08	515	515
ADCY2	-0.24922	9.89E-09	6.01E-08	515	503
GPR65	-0.24921	9.90E-09	6.01E-08	515	515
FAM117A	-0.24919	9.93E-09	6.03E-08	515	515
HIC1	-0.24919	9.94E-09	6.03E-08	515	515
FOXF2	-0.24914	9.99E-09	6.06E-08	515	515
KLHL29	-0.24914	1.00E-08	6.06E-08	515	515
CD80	-0.24911	1.00E-08	6.09E-08	515	515
PTPRU	-0.24902	1.02E-08	6.16E-08	515	515
MYO1G	-0.24894	1.03E-08	6.23E-08	515	515
RASA4P	-0.24894	1.03E-08	6.23E-08	515	515
C1orf194	-0.24889	1.04E-08	6.26E-08	515	456
AKR1A1	-0.24886	1.04E-08	6.29E-08	515	515
ANKFN1	-0.24881	1.05E-08	6.33E-08	515	465
DTHD1	-0.24875	1.06E-08	6.38E-08	515	493
CD3E	-0.24867	1.07E-08	6.45E-08	515	515
AZU1	-0.24865	1.07E-08	6.46E-08	515	440
SNX1	-0.24865	1.07E-08	6.47E-08	515	515
LRRC48	-0.24863	1.07E-08	6.48E-08	515	515
MUTYH	-0.24857	1.08E-08	6.53E-08	515	515
FCRL2	-0.24857	1.08E-08	6.53E-08	515	515
CCDC154	-0.24856	1.08E-08	6.54E-08	515	495
CD302	-0.24854	1.09E-08	6.55E-08	515	515
KLHL21	-0.24843	1.10E-08	6.65E-08	515	515
PILRB	-0.24841	1.11E-08	6.66E-08	515	515
PHF7	-0.24837	1.11E-08	6.70E-08	515	515
CHRNA2	-0.2483	1.12E-08	6.76E-08	515	296
LMAN1L	-0.24829	1.13E-08	6.76E-08	515	248
CYP7A1	-0.24825	1.13E-08	6.80E-08	515	304

D4S234E	-0.24824	1.13E-08	6.81E-08	515	514
CD1A	-0.24822	1.14E-08	6.83E-08	515	509
FAM160B2	-0.24818	1.14E-08	6.86E-08	515	515
PPP1R16B	-0.24818	1.14E-08	6.86E-08	515	515
EMP2	-0.24816	1.15E-08	6.88E-08	515	515
BIN3	-0.24814	1.15E-08	6.90E-08	515	515
TOLLIP	-0.24811	1.15E-08	6.92E-08	515	515
HERC2P2	-0.2481	1.16E-08	6.93E-08	515	515
INPP5E	-0.24807	1.16E-08	6.95E-08	515	515
NCRNA00	-0.24803	1.17E-08	6.99E-08	515	515
ARHGEF37	-0.24802	1.17E-08	6.99E-08	515	515
CAPN8	-0.24799	1.17E-08	7.02E-08	515	513
GPR114	-0.24798	1.18E-08	7.03E-08	515	515
GABRR2	-0.24792	1.19E-08	7.08E-08	515	470
ADRB1	-0.24785	1.20E-08	7.14E-08	515	508
SELENBP1	-0.24777	1.21E-08	7.22E-08	515	515
WDR91	-0.24775	1.21E-08	7.24E-08	515	515
PLXNB1	-0.24767	1.23E-08	7.32E-08	515	515
ALDOB	-0.24765	1.23E-08	7.33E-08	515	492
WDFY2	-0.24764	1.23E-08	7.34E-08	515	515
N4BP1	-0.24764	1.23E-08	7.34E-08	515	515
MUSK	-0.24764	1.23E-08	7.34E-08	515	398
DPCR1	-0.24762	1.24E-08	7.36E-08	515	505
POLR3GL	-0.2476	1.24E-08	7.37E-08	515	515
PIK3R1	-0.2476	1.24E-08	7.37E-08	515	515
LOC10013	-0.24758	1.24E-08	7.39E-08	515	515
SH3RF3	-0.24749	1.26E-08	7.48E-08	515	515
PLEKHO1	-0.24748	1.26E-08	7.49E-08	515	515
FAM111A	-0.24747	1.26E-08	7.50E-08	515	515
LIPA	-0.24735	1.28E-08	7.62E-08	515	515
MDP1	-0.24731	1.29E-08	7.66E-08	515	515
ZEB2	-0.24729	1.29E-08	7.68E-08	515	515
SIRPB2	-0.24726	1.30E-08	7.70E-08	515	515
LRRC3	-0.24724	1.30E-08	7.73E-08	515	515
MDH1B	-0.24722	1.31E-08	7.74E-08	515	511
C19orf38	-0.24719	1.31E-08	7.77E-08	515	515
ZNF160	-0.24717	1.32E-08	7.80E-08	515	515
HLA-A	-0.24713	1.32E-08	7.83E-08	515	515
SLC31A2	-0.24712	1.33E-08	7.84E-08	515	515
C9orf171	-0.24708	1.33E-08	7.88E-08	515	433
SERP2	-0.24705	1.34E-08	7.91E-08	515	515
TRADD	-0.24691	1.36E-08	8.06E-08	515	515
MYBPC2	-0.24691	1.36E-08	8.06E-08	515	503
TSGA10IP	-0.24691	1.36E-08	8.06E-08	515	367

TMEM190	-0.24685	1.38E-08	8.12E-08	515	447
PTGS1	-0.24676	1.39E-08	8.21E-08	515	515
FGF17	-0.24673	1.40E-08	8.24E-08	515	420
TMEM220	-0.24671	1.40E-08	8.26E-08	515	515
UPP2	-0.24669	1.41E-08	8.29E-08	515	326
HHIP	-0.24666	1.41E-08	8.32E-08	515	490
PLEK	-0.24665	1.42E-08	8.33E-08	515	515
SLC13A4	-0.24661	1.42E-08	8.36E-08	515	496
PMS2L11	-0.24659	1.43E-08	8.39E-08	515	514
FBLN1	-0.24658	1.43E-08	8.39E-08	515	515
AUTS2	-0.24655	1.43E-08	8.43E-08	515	515
TXK	-0.2465	1.44E-08	8.48E-08	515	514
RASSF7	-0.24645	1.45E-08	8.54E-08	515	515
TMEM119	-0.24644	1.46E-08	8.55E-08	515	515
CLDN18	-0.24643	1.46E-08	8.55E-08	515	512
CPO	-0.2464	1.46E-08	8.59E-08	515	323
CCDC108	-0.2464	1.46E-08	8.59E-08	515	497
DHDH	-0.24639	1.47E-08	8.60E-08	515	512
ACVRL1	-0.24638	1.47E-08	8.60E-08	515	515
TIAM2	-0.24631	1.48E-08	8.69E-08	515	515
FNBP1	-0.24626	1.49E-08	8.74E-08	515	515
GSTK1	-0.24621	1.50E-08	8.79E-08	515	515
RALGPS1	-0.24616	1.51E-08	8.85E-08	515	515
PDLIM1	-0.24612	1.52E-08	8.90E-08	515	515
ZBTB49	-0.24608	1.53E-08	8.94E-08	515	515
C6orf103	-0.24599	1.55E-08	9.05E-08	515	384
NADSYN1	-0.24598	1.55E-08	9.05E-08	515	515
C1orf101	-0.24592	1.56E-08	9.12E-08	515	511
NCRNA00	-0.24592	1.56E-08	9.12E-08	515	515
PTRH1	-0.24592	1.57E-08	9.12E-08	515	515
HSF5	-0.2459	1.57E-08	9.14E-08	515	451
AKAP8L	-0.24588	1.57E-08	9.16E-08	515	515
ANXA6	-0.24587	1.58E-08	9.17E-08	515	515
TCEAL5	-0.24583	1.58E-08	9.22E-08	515	511
TUBG2	-0.24582	1.59E-08	9.23E-08	515	515
MAPK8IP1	-0.24581	1.59E-08	9.25E-08	515	515
IKBKG	-0.24575	1.60E-08	9.32E-08	515	515
SLC26A5	-0.24572	1.61E-08	9.34E-08	515	447
RASA3	-0.2457	1.61E-08	9.37E-08	515	515
RPL13AP1	-0.24568	1.62E-08	9.39E-08	515	399
FAM65A	-0.24568	1.62E-08	9.40E-08	515	515
KIAA2022	-0.24564	1.63E-08	9.44E-08	515	509
F8	-0.24559	1.64E-08	9.50E-08	515	515
CLUL1	-0.24558	1.64E-08	9.51E-08	515	507

KLHL22	-0.24557	1.64E-08	9.52E-08	515	515
ZNF324	-0.24556	1.64E-08	9.53E-08	515	515
TAF1C	-0.24553	1.65E-08	9.57E-08	515	515
CYP4Z2P	-0.24551	1.66E-08	9.59E-08	515	383
EFHB	-0.24529	1.71E-08	9.87E-08	515	501
USP4	-0.24528	1.71E-08	9.88E-08	515	515
CTDSPL	-0.24524	1.72E-08	9.93E-08	515	515
IGFALS	-0.24516	1.74E-08	1.00E-07	515	511
C17orf47	-0.24514	1.74E-08	1.01E-07	515	502
SYP	-0.24511	1.75E-08	1.01E-07	515	515
SKINTL	-0.24509	1.75E-08	1.01E-07	515	266
NTN4	-0.24509	1.75E-08	1.01E-07	515	515
GNPTG	-0.24508	1.76E-08	1.01E-07	515	515
FBP2	-0.24506	1.76E-08	1.02E-07	515	302
TBX6	-0.24504	1.77E-08	1.02E-07	515	515
IQGAP2	-0.24501	1.77E-08	1.02E-07	515	515
FZR1	-0.24499	1.78E-08	1.03E-07	515	515
RSPH1	-0.24497	1.78E-08	1.03E-07	515	513
DHPS	-0.24496	1.79E-08	1.03E-07	515	515
FAM184A	-0.24494	1.79E-08	1.03E-07	515	515
THBS3	-0.24494	1.79E-08	1.03E-07	515	515
ZNF213	-0.24491	1.80E-08	1.03E-07	515	515
SPATA6	-0.24485	1.81E-08	1.04E-07	515	515
CECR6	-0.24484	1.81E-08	1.04E-07	515	514
GNGT2	-0.24477	1.83E-08	1.05E-07	515	515
AES	-0.24467	1.86E-08	1.07E-07	515	515
HDAC7	-0.24465	1.86E-08	1.07E-07	515	515
MAFB	-0.24464	1.87E-08	1.07E-07	515	515
GPR123	-0.2446	1.88E-08	1.08E-07	515	308
TNIK	-0.24453	1.90E-08	1.09E-07	515	515
ARAP3	-0.24442	1.92E-08	1.10E-07	515	515
CYLD	-0.24437	1.94E-08	1.11E-07	515	515
GLB1L3	-0.24433	1.95E-08	1.11E-07	515	453
LYST	-0.24433	1.95E-08	1.12E-07	515	515
CPNE2	-0.24429	1.96E-08	1.12E-07	515	515
CCDC60	-0.24424	1.97E-08	1.13E-07	515	390
RNASEH2	-0.24423	1.97E-08	1.13E-07	515	515
DNASE1L3	-0.24421	1.98E-08	1.13E-07	515	502
C1orf158	-0.24421	1.98E-08	1.13E-07	515	373
APBA3	-0.24418	1.99E-08	1.13E-07	515	515
SH3BP2	-0.24416	1.99E-08	1.14E-07	515	515
ODAM	-0.24412	2.00E-08	1.14E-07	515	325
FRMD4A	-0.24412	2.00E-08	1.14E-07	515	515
STRADA	-0.24409	2.01E-08	1.15E-07	515	515

CRYBB1	-0.24405	2.02E-08	1.15E-07	515	503
C20orf103	-0.24403	2.03E-08	1.16E-07	515	515
C11orf88	-0.24389	2.07E-08	1.18E-07	515	471
C14orf182	-0.24389	2.07E-08	1.18E-07	515	509
LOC72898	-0.24386	2.08E-08	1.18E-07	515	484
RIMBP3	-0.24378	2.10E-08	1.19E-07	515	515
SMARCD3	-0.24376	2.11E-08	1.20E-07	515	515
RFPL3S	-0.24368	2.13E-08	1.21E-07	515	499
SLC1A7	-0.24366	2.13E-08	1.21E-07	515	515
NCAM1	-0.24359	2.16E-08	1.22E-07	515	515
CASC1	-0.24358	2.16E-08	1.23E-07	515	510
CXCR3	-0.24356	2.16E-08	1.23E-07	515	515
CDC42EP1	-0.24355	2.17E-08	1.23E-07	515	515
SLITRK3	-0.24354	2.17E-08	1.23E-07	515	417
C6orf217	-0.24353	2.17E-08	1.23E-07	515	479
LOC15869	-0.24352	2.17E-08	1.23E-07	515	455
ING4	-0.24347	2.19E-08	1.24E-07	515	515
TMC2	-0.24344	2.20E-08	1.25E-07	515	425
APOD	-0.2434	2.21E-08	1.25E-07	515	515
MYO7B	-0.24339	2.22E-08	1.25E-07	515	512
CLEC9A	-0.24337	2.22E-08	1.26E-07	515	460
PPP4R1L	-0.24328	2.25E-08	1.27E-07	515	515
SDK2	-0.24315	2.29E-08	1.29E-07	515	515
SERPING1	-0.24313	2.29E-08	1.30E-07	515	515
SLN	-0.24311	2.30E-08	1.30E-07	515	435
ZDHHC1	-0.2431	2.30E-08	1.30E-07	515	515
TGFBR3	-0.24302	2.33E-08	1.31E-07	515	515
C2orf58	-0.24296	2.35E-08	1.32E-07	515	506
MYOCD	-0.24295	2.35E-08	1.33E-07	515	503
SPRY2	-0.24292	2.36E-08	1.33E-07	515	515
SNTN	-0.24287	2.38E-08	1.34E-07	515	491
PTPLAD2	-0.24282	2.39E-08	1.35E-07	515	515
PXMP4	-0.24282	2.39E-08	1.35E-07	515	515
PDE4C	-0.24279	2.40E-08	1.35E-07	515	515
CYP4F12	-0.24272	2.43E-08	1.37E-07	515	484
CRAMP1L	-0.24264	2.45E-08	1.38E-07	515	515
ACAD11	-0.24257	2.48E-08	1.39E-07	515	515
P4HTM	-0.24254	2.49E-08	1.40E-07	515	515
TLR4	-0.24253	2.49E-08	1.40E-07	515	515
CYBRD1	-0.24249	2.50E-08	1.41E-07	515	515
NPHP3	-0.24249	2.51E-08	1.41E-07	515	515
ZBTB17	-0.24247	2.51E-08	1.41E-07	515	515
SLA	-0.24246	2.52E-08	1.41E-07	515	515
MYLK4	-0.24241	2.53E-08	1.42E-07	515	515

PHF11	-0.2424	2.54E-08	1.42E-07	515	515
FAM110B	-0.24238	2.54E-08	1.42E-07	515	515
THBS4	-0.24238	2.54E-08	1.42E-07	515	514
TIE1	-0.24229	2.57E-08	1.44E-07	515	515
RBM6	-0.24224	2.59E-08	1.45E-07	515	515
LTB4R	-0.24222	2.60E-08	1.45E-07	515	515
DOCK11	-0.24219	2.61E-08	1.46E-07	515	515
TRIM38	-0.24214	2.63E-08	1.47E-07	515	515
ZNF575	-0.24211	2.64E-08	1.47E-07	515	515
PLAGL1	-0.24209	2.64E-08	1.48E-07	515	515
CAMTA2	-0.24207	2.65E-08	1.48E-07	515	515
MEI1	-0.24206	2.65E-08	1.48E-07	515	515
BAD	-0.24202	2.67E-08	1.49E-07	515	515
EGLN2	-0.24199	2.68E-08	1.49E-07	515	515
TMOD4	-0.24197	2.69E-08	1.50E-07	515	421
TNFRSF25	-0.24192	2.71E-08	1.51E-07	515	515
FAR2	-0.24192	2.71E-08	1.51E-07	515	515
TLR10	-0.24189	2.72E-08	1.51E-07	515	515
GPR137	-0.24181	2.75E-08	1.53E-07	515	515
BCL2	-0.24179	2.76E-08	1.53E-07	515	515
SPOCK2	-0.24176	2.76E-08	1.54E-07	515	515
TRIM63	-0.24158	2.83E-08	1.57E-07	515	361
SLC22A17	-0.24157	2.84E-08	1.58E-07	515	515
C20orf165	-0.24151	2.86E-08	1.59E-07	515	507
AVPR2	-0.24146	2.88E-08	1.60E-07	515	508
SFXN3	-0.24137	2.92E-08	1.62E-07	515	515
KIAA0319L	-0.24134	2.93E-08	1.62E-07	515	515
FAM100A	-0.24132	2.94E-08	1.63E-07	515	515
MED16	-0.24128	2.95E-08	1.63E-07	515	515
GPC3	-0.24128	2.95E-08	1.63E-07	515	515
FES	-0.24125	2.96E-08	1.64E-07	515	515
HPSE2	-0.24115	3.00E-08	1.66E-07	515	403
PRR5L	-0.24108	3.03E-08	1.67E-07	515	515
BSDC1	-0.24106	3.04E-08	1.68E-07	515	515
LRRC31	-0.24102	3.06E-08	1.69E-07	515	497
MYO15A	-0.24102	3.06E-08	1.69E-07	515	515
SHC2	-0.24098	3.07E-08	1.69E-07	515	515
C15orf52	-0.24098	3.07E-08	1.69E-07	515	515
MEGF11	-0.24096	3.08E-08	1.70E-07	515	498
IGFBP7	-0.24085	3.13E-08	1.72E-07	515	515
ZYX	-0.2408	3.15E-08	1.73E-07	515	515
GPR172B	-0.24079	3.15E-08	1.73E-07	515	513
KRT72	-0.24076	3.17E-08	1.74E-07	515	176
RBPM5	-0.24068	3.20E-08	1.76E-07	515	515

TSNARE1	-0.24066	3.21E-08	1.76E-07	515	515
C15orf37	-0.24061	3.23E-08	1.77E-07	515	515
NAP1L2	-0.24061	3.23E-08	1.78E-07	515	515
FAT3	-0.24051	3.27E-08	1.80E-07	515	510
NPTXR	-0.24051	3.27E-08	1.80E-07	515	515
ATP1B2	-0.24051	3.28E-08	1.80E-07	515	515
SULT1C4	-0.24047	3.29E-08	1.81E-07	515	515
PTGFR	-0.24044	3.30E-08	1.81E-07	515	513
SCTR	-0.24044	3.31E-08	1.81E-07	515	500
DACT3	-0.24039	3.33E-08	1.82E-07	515	515
C6orf201	-0.24036	3.34E-08	1.83E-07	515	508
MAGI2	-0.24036	3.34E-08	1.83E-07	515	515
INO80E	-0.24036	3.34E-08	1.83E-07	515	515
LILRB3	-0.24035	3.35E-08	1.83E-07	515	515
LENG1	-0.24034	3.35E-08	1.83E-07	515	515
OGN	-0.24032	3.36E-08	1.84E-07	515	513
SYK	-0.24031	3.36E-08	1.84E-07	515	515
DAPP1	-0.24025	3.39E-08	1.85E-07	515	515
DOCK4	-0.24021	3.41E-08	1.86E-07	515	515
GP5	-0.2402	3.42E-08	1.86E-07	515	487
SORCS1	-0.24014	3.44E-08	1.88E-07	515	404
DND1	-0.2401	3.46E-08	1.89E-07	515	515
CC2D1A	-0.24009	3.47E-08	1.89E-07	515	515
IDUA	-0.24006	3.48E-08	1.90E-07	515	515
C22orf26	-0.23998	3.52E-08	1.92E-07	515	514
SLC22A15	-0.23996	3.53E-08	1.92E-07	515	515
SIGLEC8	-0.23991	3.55E-08	1.93E-07	515	514
PENK	-0.23991	3.55E-08	1.93E-07	515	497
ITGB1BP2	-0.2399	3.56E-08	1.93E-07	515	506
ZDHHC11	-0.23981	3.60E-08	1.96E-07	515	515
LOC40143	-0.2398	3.60E-08	1.96E-07	515	515
AQP8	-0.23975	3.63E-08	1.97E-07	515	335
FKBP6	-0.23974	3.63E-08	1.97E-07	515	404
RNASE4	-0.23967	3.67E-08	1.99E-07	515	515
ALS2CR8	-0.23958	3.71E-08	2.01E-07	515	515
IQSEC3	-0.23957	3.72E-08	2.02E-07	515	511
KIAA0087	-0.23952	3.74E-08	2.03E-07	515	363
C1orf129	-0.23951	3.75E-08	2.03E-07	515	348
TMEM100	-0.2395	3.75E-08	2.03E-07	515	515
PRKCB	-0.2395	3.75E-08	2.03E-07	515	515
SOX18	-0.23937	3.82E-08	2.07E-07	515	515
PCSK5	-0.23934	3.83E-08	2.08E-07	515	515
STK32B	-0.23929	3.86E-08	2.09E-07	515	514
SLFN12	-0.23927	3.87E-08	2.09E-07	515	515

ZNF577	-0.23911	3.95E-08	2.14E-07	515	515
ADORA3	-0.23903	3.99E-08	2.16E-07	515	515
IFFO2	-0.23902	4.00E-08	2.16E-07	515	515
PI4KAP1	-0.23902	4.00E-08	2.16E-07	515	515
FAM107A	-0.23893	4.05E-08	2.19E-07	515	515
HIGD1B	-0.23889	4.07E-08	2.20E-07	515	515
ARHGAP2	-0.23888	4.08E-08	2.20E-07	515	515
LOC40065	-0.23886	4.09E-08	2.20E-07	515	515
SFTPC	-0.23886	4.09E-08	2.20E-07	515	510
CPEB1	-0.23883	4.10E-08	2.21E-07	515	487
ITGB7	-0.23879	4.12E-08	2.22E-07	515	515
MUL1	-0.23878	4.13E-08	2.22E-07	515	515
EHD1	-0.23876	4.14E-08	2.23E-07	515	515
WDR13	-0.23873	4.16E-08	2.24E-07	515	515
FAM183A	-0.23869	4.18E-08	2.25E-07	515	477
AMDHD2	-0.23867	4.20E-08	2.26E-07	515	515
AFF3	-0.23865	4.21E-08	2.26E-07	515	515
PLXNA2	-0.23864	4.21E-08	2.26E-07	515	515
ADPRH	-0.23863	4.22E-08	2.27E-07	515	515
TIGD4	-0.23859	4.24E-08	2.28E-07	515	514
COL8A2	-0.23854	4.27E-08	2.29E-07	515	515
GDF15	-0.23852	4.28E-08	2.30E-07	515	515
PNMA3	-0.23839	4.35E-08	2.34E-07	515	509
SIGLEC5	-0.23827	4.42E-08	2.37E-07	515	515
GABBR1	-0.23823	4.44E-08	2.38E-07	515	515
ARHGAP2	-0.23817	4.48E-08	2.40E-07	515	515
SCGBL	-0.23816	4.49E-08	2.41E-07	515	300
CLDND2	-0.23812	4.51E-08	2.42E-07	515	449
FKBP8	-0.23811	4.52E-08	2.42E-07	515	515
RBMXL2	-0.23806	4.55E-08	2.43E-07	515	232
FHOD1	-0.23805	4.56E-08	2.44E-07	515	515
SPEF2	-0.23804	4.56E-08	2.44E-07	515	515
ELMOD1	-0.23804	4.56E-08	2.44E-07	515	474
TDRD10	-0.23795	4.62E-08	2.47E-07	515	515
KCNA4	-0.23792	4.64E-08	2.48E-07	515	379
SVEP1	-0.23791	4.64E-08	2.48E-07	515	515
IL2RG	-0.23788	4.66E-08	2.49E-07	515	515
MCC	-0.23784	4.68E-08	2.50E-07	515	515
CH25H	-0.23782	4.70E-08	2.51E-07	515	515
CARNS1	-0.2378	4.71E-08	2.51E-07	515	515
MITF	-0.23777	4.73E-08	2.52E-07	515	515
C9orf131	-0.23771	4.76E-08	2.54E-07	515	446
GNAZ	-0.23767	4.79E-08	2.55E-07	515	515
NR3C2	-0.23763	4.81E-08	2.56E-07	515	515

B3GNT8	-0.23759	4.84E-08	2.58E-07	515	515
NDUFS7	-0.23752	4.89E-08	2.60E-07	515	515
CD300A	-0.23752	4.89E-08	2.60E-07	515	515
SIAH3	-0.23749	4.91E-08	2.61E-07	515	430
AGAP4	-0.23747	4.92E-08	2.61E-07	515	515
TMEM86B	-0.23731	5.03E-08	2.67E-07	515	515
CCR2	-0.2373	5.03E-08	2.67E-07	515	515
CLEC17A	-0.23725	5.07E-08	2.69E-07	515	486
IVD	-0.23719	5.11E-08	2.71E-07	515	515
C9orf156	-0.23716	5.13E-08	2.72E-07	515	515
ATAD3C	-0.23713	5.15E-08	2.73E-07	515	515
NCRNA00	-0.23705	5.20E-08	2.75E-07	515	515
EMILIN2	-0.23699	5.25E-08	2.78E-07	515	515
ZNF75D	-0.23697	5.26E-08	2.78E-07	515	515
ZNF389	-0.23689	5.32E-08	2.81E-07	515	501
RRAS	-0.23686	5.34E-08	2.82E-07	515	515
ABRA	-0.23686	5.34E-08	2.82E-07	515	350
TEKT1	-0.23684	5.35E-08	2.83E-07	515	437
KCNMA1	-0.23681	5.37E-08	2.84E-07	515	515
PSD	-0.2368	5.38E-08	2.84E-07	515	515
PLXDC1	-0.23679	5.39E-08	2.85E-07	515	515
TNFSF14	-0.23675	5.41E-08	2.86E-07	515	512
FLJ45340	-0.23675	5.42E-08	2.86E-07	515	515
CG030	-0.23673	5.43E-08	2.86E-07	515	515
ME3	-0.23669	5.46E-08	2.88E-07	515	515
ZNF821	-0.23667	5.47E-08	2.89E-07	515	515
E4F1	-0.23666	5.48E-08	2.89E-07	515	515
PCBP3	-0.23659	5.53E-08	2.91E-07	515	515
TRIM36	-0.23647	5.62E-08	2.96E-07	515	515
HS3ST2	-0.23641	5.66E-08	2.98E-07	515	515
ZNF599	-0.23631	5.74E-08	3.02E-07	515	515
TMSL3	-0.23625	5.78E-08	3.04E-07	515	515
C17orf44	-0.23624	5.80E-08	3.04E-07	515	515
RAPGEF1	-0.23619	5.83E-08	3.06E-07	515	515
CDHR1	-0.23617	5.85E-08	3.07E-07	515	505
SH2D4B	-0.23616	5.85E-08	3.07E-07	515	487
CALML6	-0.23612	5.89E-08	3.09E-07	515	391
C2orf39	-0.23608	5.92E-08	3.10E-07	515	488
FAM47E	-0.23606	5.93E-08	3.11E-07	515	514
ZNF844	-0.23604	5.94E-08	3.12E-07	515	515
IGSF21	-0.23601	5.97E-08	3.13E-07	515	505
TNFRSF4	-0.23601	5.97E-08	3.13E-07	515	515
LOC73066	-0.23599	5.99E-08	3.13E-07	515	480
AGAP8	-0.23593	6.04E-08	3.16E-07	515	515

LPCAT2	-0.23593	6.04E-08	3.16E-07	515	515
CAMP	-0.23591	6.05E-08	3.17E-07	515	467
ERBB4	-0.2359	6.06E-08	3.17E-07	515	506
ADAMTS1	-0.23588	6.07E-08	3.17E-07	515	515
MAS1L	-0.23588	6.07E-08	3.17E-07	515	173
POLM	-0.2358	6.14E-08	3.21E-07	515	515
L3MBTL	-0.23578	6.15E-08	3.21E-07	515	515
STUB1	-0.23578	6.16E-08	3.21E-07	515	515
C20orf85	-0.23572	6.20E-08	3.24E-07	515	448
WDR16	-0.23553	6.37E-08	3.32E-07	515	491
PLLP	-0.23548	6.40E-08	3.34E-07	515	515
NPEPL1	-0.23545	6.43E-08	3.35E-07	515	515
HTR7P1	-0.23545	6.43E-08	3.35E-07	515	515
BMP4	-0.23545	6.43E-08	3.35E-07	515	515
POFUT2	-0.23541	6.47E-08	3.37E-07	515	515
OCM	-0.23539	6.48E-08	3.37E-07	515	392
ZEB1	-0.23533	6.53E-08	3.40E-07	515	515
RDH5	-0.23532	6.54E-08	3.40E-07	515	515
PLIN1	-0.23526	6.60E-08	3.43E-07	515	499
SOX10	-0.23524	6.61E-08	3.44E-07	515	312
LOC64371	-0.23519	6.65E-08	3.46E-07	515	494
ACRC	-0.23518	6.66E-08	3.46E-07	515	515
TOX	-0.23518	6.66E-08	3.46E-07	515	515
CEACAM4	-0.23517	6.67E-08	3.46E-07	515	508
ART4	-0.23517	6.67E-08	3.46E-07	515	493
PCDH15	-0.23515	6.69E-08	3.47E-07	515	400
RNF144B	-0.23511	6.72E-08	3.49E-07	515	515
PHF15	-0.2351	6.73E-08	3.49E-07	515	515
SYNPO2	-0.23508	6.75E-08	3.50E-07	515	515
NINJ1	-0.23508	6.75E-08	3.50E-07	515	515
ICAM4	-0.23504	6.78E-08	3.52E-07	515	515
ENHO	-0.23503	6.80E-08	3.52E-07	515	500
FOXA2	-0.23501	6.81E-08	3.53E-07	515	513
LTB4R2	-0.23491	6.91E-08	3.57E-07	515	515
FIG4	-0.23482	6.99E-08	3.61E-07	515	515
MTSS1L	-0.2348	7.01E-08	3.62E-07	515	515
DDX17	-0.23478	7.02E-08	3.63E-07	515	515
AQP1	-0.23469	7.11E-08	3.67E-07	515	515
PLAC8	-0.23463	7.16E-08	3.70E-07	515	515
DKFZP586I	-0.23454	7.25E-08	3.74E-07	515	515
SGK269	-0.23452	7.26E-08	3.75E-07	515	515
LCA5	-0.23447	7.32E-08	3.77E-07	515	515
DEAF1	-0.23446	7.33E-08	3.78E-07	515	515
PTPRD	-0.23439	7.39E-08	3.81E-07	515	515

GP6	-0.23432	7.46E-08	3.84E-07	515	463
FAM81B	-0.23427	7.51E-08	3.87E-07	515	502
CRTAC1	-0.23423	7.55E-08	3.89E-07	515	514
PISD	-0.23419	7.59E-08	3.91E-07	515	515
LOC10012	-0.23418	7.60E-08	3.91E-07	515	515
FOXI1	-0.23415	7.63E-08	3.92E-07	515	307
CCDC147	-0.23415	7.63E-08	3.92E-07	515	504
ACAA1	-0.2341	7.67E-08	3.95E-07	515	515
LCA5L	-0.23409	7.69E-08	3.95E-07	515	515
SLC9A8	-0.23407	7.71E-08	3.96E-07	515	515
LOC12183	-0.23406	7.72E-08	3.97E-07	515	357
CHST8	-0.23399	7.79E-08	4.00E-07	515	444
CLIP2	-0.23397	7.81E-08	4.01E-07	515	515
KCNH3	-0.23394	7.84E-08	4.02E-07	515	509
DGKZ	-0.23394	7.85E-08	4.02E-07	515	515
LILRB1	-0.23389	7.89E-08	4.04E-07	515	515
HELQ	-0.23386	7.93E-08	4.06E-07	515	515
SLC11A1	-0.23359	8.21E-08	4.20E-07	515	515
ZNF625	-0.23359	8.21E-08	4.20E-07	515	513
CYBB	-0.23359	8.21E-08	4.20E-07	515	515
ZNF204P	-0.23351	8.29E-08	4.24E-07	515	515
QRICH2	-0.23342	8.39E-08	4.29E-07	515	515
9-Mar	-0.23321	8.63E-08	4.40E-07	515	515
MGLL	-0.23319	8.65E-08	4.42E-07	515	515
TTC12	-0.23316	8.68E-08	4.43E-07	515	515
RXFP4	-0.23314	8.70E-08	4.44E-07	515	340
ZNF462	-0.23313	8.71E-08	4.44E-07	515	515
CEBPA	-0.23313	8.72E-08	4.44E-07	515	515
B4GALT7	-0.23312	8.73E-08	4.45E-07	515	515
NAAA	-0.23306	8.80E-08	4.48E-07	515	515
PTPRC	-0.23306	8.80E-08	4.48E-07	515	515
SMAD7	-0.23299	8.88E-08	4.52E-07	515	515
SMOC2	-0.23297	8.90E-08	4.53E-07	515	515
GSTA3	-0.23297	8.90E-08	4.53E-07	515	302
MED22	-0.23291	8.97E-08	4.56E-07	515	515
INCA1	-0.2329	8.99E-08	4.57E-07	515	515
CCDC129	-0.23285	9.04E-08	4.59E-07	515	430
SLC22A3	-0.23285	9.05E-08	4.59E-07	515	515
EHBP1L1	-0.23284	9.05E-08	4.60E-07	515	515
NCRNA00	-0.23281	9.09E-08	4.61E-07	515	515
BBS2	-0.2328	9.10E-08	4.61E-07	515	515
RYR2	-0.23278	9.12E-08	4.63E-07	515	515
ERG	-0.23276	9.14E-08	4.64E-07	515	515
LRRC27	-0.23274	9.17E-08	4.65E-07	515	515

HSPB6	-0.23273	9.18E-08	4.65E-07	515	515
SBF1	-0.23272	9.20E-08	4.66E-07	515	515
LSAMP	-0.23263	9.31E-08	4.71E-07	515	515
MAB21L1	-0.23253	9.43E-08	4.77E-07	515	383
NAALAD2	-0.23243	9.55E-08	4.83E-07	515	515
C12orf63	-0.23241	9.57E-08	4.84E-07	515	490
SYNJ1	-0.23239	9.59E-08	4.85E-07	515	515
TSPO	-0.23237	9.62E-08	4.86E-07	515	515
ANKRD55	-0.23237	9.63E-08	4.86E-07	515	492
TRIM74	-0.23232	9.69E-08	4.89E-07	515	425
MBD3	-0.23228	9.73E-08	4.91E-07	515	515
ARHGAP1	-0.2321	9.97E-08	5.03E-07	515	515
PRSS12	-0.23209	9.98E-08	5.03E-07	515	513
GPR116	-0.23208	9.99E-08	5.04E-07	515	515
ARC	-0.23203	1.01E-07	5.07E-07	515	510
PANK4	-0.23202	1.01E-07	5.08E-07	515	515
ZNF831	-0.232	1.01E-07	5.09E-07	515	515
PALMD	-0.232	1.01E-07	5.09E-07	515	515
FLNA	-0.23199	1.01E-07	5.09E-07	515	515
TAPT1	-0.23199	1.01E-07	5.09E-07	515	515
FHIT	-0.23198	1.01E-07	5.10E-07	515	515
PEBP4	-0.23195	1.02E-07	5.11E-07	515	504
CEACAM8	-0.23189	1.02E-07	5.15E-07	515	340
RBP2	-0.23185	1.03E-07	5.18E-07	515	322
FLJ37543	-0.23181	1.03E-07	5.20E-07	515	328
FBXO24	-0.23176	1.04E-07	5.24E-07	515	512
KLRB1	-0.23172	1.05E-07	5.26E-07	515	514
FAM82A2	-0.23165	1.06E-07	5.31E-07	515	515
WFIKKN1	-0.23154	1.07E-07	5.38E-07	515	514
FAM131B	-0.23149	1.08E-07	5.42E-07	515	515
CLIC3	-0.23148	1.08E-07	5.42E-07	515	514
ANGPT4	-0.23146	1.08E-07	5.43E-07	515	363
ODZ2	-0.23144	1.09E-07	5.44E-07	515	496
FAM154B	-0.23141	1.09E-07	5.46E-07	515	511
ARSG	-0.23135	1.10E-07	5.51E-07	515	515
LANCL3	-0.2313	1.11E-07	5.54E-07	515	495
AGFG2	-0.23129	1.11E-07	5.55E-07	515	515
ANKRD35	-0.23128	1.11E-07	5.55E-07	515	515
WDR65	-0.23127	1.11E-07	5.56E-07	515	489
LRRK2	-0.23123	1.12E-07	5.58E-07	515	515
COL6A6	-0.23123	1.12E-07	5.58E-07	515	510
CD5L	-0.23118	1.12E-07	5.62E-07	515	385
KIAA1407	-0.23116	1.13E-07	5.63E-07	515	515
GLYATL2	-0.23113	1.13E-07	5.65E-07	515	373

LY9	-0.23112	1.13E-07	5.65E-07	515	515
C20orf12	-0.23111	1.13E-07	5.66E-07	515	515
LOC28385	-0.23111	1.13E-07	5.66E-07	515	288
MYH7B	-0.23108	1.14E-07	5.68E-07	515	510
SPATS1	-0.23108	1.14E-07	5.68E-07	515	321
EVI2A	-0.23108	1.14E-07	5.68E-07	515	515
CD86	-0.231	1.15E-07	5.73E-07	515	515
PPWD1	-0.23098	1.15E-07	5.74E-07	515	515
SMCR7	-0.23093	1.16E-07	5.78E-07	515	515
PFKL	-0.2309	1.16E-07	5.80E-07	515	515
PTRF	-0.23076	1.19E-07	5.90E-07	515	515
NKD2	-0.23075	1.19E-07	5.90E-07	515	515
TMEM212	-0.23075	1.19E-07	5.91E-07	515	373
LRRC50	-0.2307	1.19E-07	5.94E-07	515	509
DUSP27	-0.23068	1.20E-07	5.96E-07	515	408
C11orf16	-0.23065	1.20E-07	5.97E-07	515	486
ZNF814	-0.23064	1.20E-07	5.98E-07	515	515
CRYBB3	-0.23059	1.21E-07	6.02E-07	515	380
SERPINA9	-0.23055	1.22E-07	6.05E-07	515	361
DCN	-0.23052	1.22E-07	6.06E-07	515	515
LOC65350	-0.23049	1.23E-07	6.09E-07	515	515
MORN1	-0.23036	1.25E-07	6.19E-07	515	515
C20orf135	-0.23034	1.25E-07	6.20E-07	515	515
FRS3	-0.23031	1.26E-07	6.23E-07	515	515
HOOK2	-0.23029	1.26E-07	6.24E-07	515	515
EGR2	-0.23025	1.27E-07	6.27E-07	515	515
TMEM129	-0.23023	1.27E-07	6.29E-07	515	515
SKI	-0.23021	1.27E-07	6.30E-07	515	515
CLEC16A	-0.23021	1.27E-07	6.30E-07	515	515
MMP24	-0.23015	1.28E-07	6.34E-07	515	515
ZHX2	-0.23014	1.28E-07	6.35E-07	515	515
CAMK2D	-0.23006	1.30E-07	6.41E-07	515	515
C1orf116	-0.23004	1.30E-07	6.43E-07	515	515
RADIL	-0.23003	1.30E-07	6.43E-07	515	515
ENPP6	-0.23002	1.30E-07	6.43E-07	515	503
LOC40109	-0.23002	1.30E-07	6.43E-07	515	515
RHOJ	-0.23002	1.31E-07	6.44E-07	515	515
ZBTB40	-0.22997	1.31E-07	6.48E-07	515	515
LOC10012	-0.22993	1.32E-07	6.50E-07	515	515
GUSBP1	-0.22991	1.32E-07	6.52E-07	515	515
C21orf7	-0.22982	1.34E-07	6.59E-07	515	515
ITFG2	-0.22982	1.34E-07	6.59E-07	515	515
TRIL	-0.22973	1.35E-07	6.66E-07	515	515
IRF2	-0.22972	1.36E-07	6.67E-07	515	515

CES8	-0.22972	1.36E-07	6.67E-07	515	515
FCGR2C	-0.22967	1.36E-07	6.71E-07	515	515
SGIP1	-0.22965	1.37E-07	6.73E-07	515	515
FLJ26850	-0.22962	1.37E-07	6.75E-07	515	404
CMKLR1	-0.22958	1.38E-07	6.79E-07	515	515
SLC1A3	-0.22956	1.38E-07	6.80E-07	515	515
SHH	-0.22952	1.39E-07	6.83E-07	515	493
EML6	-0.2295	1.39E-07	6.85E-07	515	515
SFRS14	-0.22947	1.40E-07	6.87E-07	515	515
UNC80	-0.22945	1.40E-07	6.88E-07	515	457
KBTBD8	-0.22942	1.41E-07	6.91E-07	515	515
RHOXF1	-0.22941	1.41E-07	6.92E-07	515	344
C17orf60	-0.22936	1.42E-07	6.96E-07	515	515
GPR112	-0.22935	1.42E-07	6.97E-07	515	129
CCDC65	-0.2293	1.43E-07	7.01E-07	515	513
CATSPER2	-0.22927	1.44E-07	7.03E-07	515	515
C3AR1	-0.22922	1.45E-07	7.08E-07	515	515
HPS4	-0.22919	1.45E-07	7.10E-07	515	515
DNAH2	-0.22919	1.45E-07	7.10E-07	515	515
CLEC11A	-0.22915	1.46E-07	7.13E-07	515	515
CCDC28B	-0.22911	1.47E-07	7.17E-07	515	515
ZMYND12	-0.22902	1.48E-07	7.25E-07	515	515
GBGT1	-0.22899	1.49E-07	7.27E-07	515	515
CD68	-0.22898	1.49E-07	7.28E-07	515	515
GGT6	-0.22897	1.49E-07	7.29E-07	515	509
RANBP3L	-0.22895	1.50E-07	7.30E-07	515	494
CCND2	-0.22893	1.50E-07	7.32E-07	515	515
TP73	-0.22892	1.50E-07	7.33E-07	515	514
C10orf125	-0.22892	1.50E-07	7.33E-07	515	515
CCRL1	-0.22891	1.50E-07	7.33E-07	515	515
DYNLRB2	-0.22882	1.52E-07	7.41E-07	515	481
RAB43	-0.22881	1.52E-07	7.42E-07	515	515
COL16A1	-0.22881	1.52E-07	7.42E-07	515	515
TMEM114	-0.22878	1.53E-07	7.45E-07	515	202
CXCL17	-0.22877	1.53E-07	7.46E-07	515	513
WDR63	-0.22872	1.54E-07	7.49E-07	515	501
DISP1	-0.22866	1.55E-07	7.56E-07	515	515
PLA2G6	-0.22865	1.55E-07	7.56E-07	515	515
FUZ	-0.22862	1.56E-07	7.59E-07	515	515
DMRTC1B	-0.22858	1.57E-07	7.63E-07	515	486
ELMO1	-0.22851	1.58E-07	7.69E-07	515	515
IL2	-0.2285	1.59E-07	7.70E-07	515	305
IL18BP	-0.22848	1.59E-07	7.71E-07	515	515
C17orf50	-0.22841	1.60E-07	7.78E-07	515	445

C13orf30	-0.22834	1.62E-07	7.85E-07	515	495
TTC29	-0.22834	1.62E-07	7.85E-07	515	393
DHX58	-0.22834	1.62E-07	7.85E-07	515	515
FAM150B	-0.22832	1.62E-07	7.86E-07	515	497
FAM161B	-0.22831	1.62E-07	7.87E-07	515	515
CTRC	-0.2283	1.62E-07	7.87E-07	515	239
ZNF552	-0.22829	1.63E-07	7.88E-07	515	515
GLIPR1	-0.22829	1.63E-07	7.88E-07	515	515
OGT	-0.22827	1.63E-07	7.90E-07	515	515
EBF3	-0.22827	1.63E-07	7.90E-07	515	487
LCP1	-0.22823	1.64E-07	7.94E-07	515	515
IL28RA	-0.22821	1.65E-07	7.96E-07	515	515
PPP1R15A	-0.22817	1.65E-07	7.99E-07	515	515
FAM53B	-0.22816	1.65E-07	7.99E-07	515	515
DGKA	-0.22816	1.66E-07	8.00E-07	515	515
SSTR3	-0.22809	1.67E-07	8.06E-07	515	372
FXD7	-0.22797	1.70E-07	8.19E-07	515	473
C6orf47	-0.2279	1.71E-07	8.25E-07	515	515
SLC46A2	-0.22785	1.72E-07	8.30E-07	515	515
GPR34	-0.22779	1.74E-07	8.37E-07	515	515
DPF3	-0.22778	1.74E-07	8.38E-07	515	513
SCRN2	-0.22773	1.75E-07	8.42E-07	515	515
SEMA4D	-0.22766	1.77E-07	8.50E-07	515	515
LRRK1	-0.22755	1.79E-07	8.61E-07	515	515
SLC29A3	-0.2275	1.80E-07	8.65E-07	515	515
CD72	-0.2275	1.80E-07	8.65E-07	515	515
ABCA3	-0.22747	1.81E-07	8.68E-07	515	515
JAM3	-0.22737	1.83E-07	8.79E-07	515	515
GGT7	-0.22733	1.84E-07	8.83E-07	515	515
TRIM50	-0.22731	1.84E-07	8.85E-07	515	434
PARP10	-0.22717	1.88E-07	9.01E-07	515	515
CD180	-0.22716	1.88E-07	9.02E-07	515	515
VWCE	-0.22715	1.88E-07	9.03E-07	515	514
TNFAIP8	-0.22715	1.88E-07	9.03E-07	515	515
CFTR	-0.22712	1.89E-07	9.06E-07	515	510
ERMN	-0.22706	1.90E-07	9.13E-07	515	514
VNN2	-0.22704	1.91E-07	9.15E-07	515	515
FGF10	-0.22701	1.92E-07	9.18E-07	515	232
WBP2	-0.227	1.92E-07	9.19E-07	515	515
DMBT1	-0.22698	1.92E-07	9.21E-07	515	514
IFT80	-0.22698	1.92E-07	9.21E-07	515	515
LAMB2L	-0.22697	1.93E-07	9.22E-07	515	515
DNAH6	-0.22695	1.93E-07	9.24E-07	515	508
ANKRD6	-0.22691	1.94E-07	9.28E-07	515	515

SCNN1B	-0.22685	1.96E-07	9.35E-07	515	515
PCDHGB7	-0.22683	1.96E-07	9.36E-07	515	515
IL9R	-0.22679	1.97E-07	9.42E-07	515	509
WHAMML	-0.22675	1.98E-07	9.46E-07	515	514
C1orf150	-0.22671	1.99E-07	9.50E-07	515	478
LEAP2	-0.22668	2.00E-07	9.54E-07	515	491
DTNBP1	-0.22667	2.00E-07	9.54E-07	515	515
OSCP1	-0.22663	2.01E-07	9.59E-07	515	515
EME2	-0.22661	2.01E-07	9.60E-07	515	510
ZFYVE28	-0.2266	2.02E-07	9.62E-07	515	515
C6orf225	-0.22655	2.03E-07	9.67E-07	515	515
BCL2L14	-0.22633	2.09E-07	9.94E-07	515	515
DAB2IP	-0.22633	2.09E-07	9.94E-07	515	515
APOC2	-0.22632	2.09E-07	9.95E-07	515	515
LRRC37B	-0.22631	2.09E-07	9.96E-07	515	515
CYP2B7P1	-0.22628	2.10E-07	1.00E-06	515	515
TNF	-0.22625	2.11E-07	1.00E-06	515	515
ZNF454	-0.22619	2.12E-07	1.01E-06	515	509
RHBDF1	-0.22615	2.14E-07	1.02E-06	515	515
ARMCX1	-0.22614	2.14E-07	1.02E-06	515	515
CD34	-0.22609	2.15E-07	1.02E-06	515	515
C1QC	-0.22598	2.18E-07	1.03E-06	515	515
TLR5	-0.22595	2.19E-07	1.04E-06	515	515
TTN	-0.22591	2.20E-07	1.04E-06	515	515
IQCK	-0.2259	2.21E-07	1.04E-06	515	515
TMEM219	-0.22589	2.21E-07	1.05E-06	515	515
CRTAM	-0.22586	2.22E-07	1.05E-06	515	514
GPR25	-0.22586	2.22E-07	1.05E-06	515	474
C19orf29	-0.22581	2.23E-07	1.06E-06	515	515
MYLPF	-0.22562	2.29E-07	1.08E-06	515	389
NOTCH4	-0.22559	2.29E-07	1.08E-06	515	515
SNX30	-0.22541	2.35E-07	1.11E-06	515	515
PTGER1	-0.2254	2.35E-07	1.11E-06	515	504
HYDIN	-0.22533	2.37E-07	1.12E-06	515	515
FAM167A	-0.22532	2.37E-07	1.12E-06	515	515
JMJD8	-0.22517	2.42E-07	1.14E-06	515	515
FAM153C	-0.22516	2.42E-07	1.14E-06	515	195
PLEKHF1	-0.22516	2.42E-07	1.14E-06	515	515
TMEM8C	-0.22513	2.43E-07	1.14E-06	515	124
LOC38979	-0.22512	2.43E-07	1.15E-06	515	483
ZNF433	-0.22512	2.43E-07	1.15E-06	515	515
LDB2	-0.22504	2.46E-07	1.16E-06	515	515
PAMR1	-0.22504	2.46E-07	1.16E-06	515	515
CPSF3L	-0.22497	2.48E-07	1.17E-06	515	515

ENC1	-0.22497	2.48E-07	1.17E-06	515	515
PHKG2	-0.22493	2.49E-07	1.17E-06	515	515
CD2	-0.22487	2.51E-07	1.18E-06	515	515
MAK	-0.22486	2.51E-07	1.18E-06	515	515
ITM2A	-0.22485	2.52E-07	1.18E-06	515	515
ZNF658	-0.22482	2.53E-07	1.19E-06	515	514
C19orf59	-0.22479	2.54E-07	1.19E-06	515	512
KLF12	-0.22476	2.54E-07	1.19E-06	515	515
GP1BA	-0.22475	2.55E-07	1.20E-06	515	504
DUOXA2	-0.22474	2.55E-07	1.20E-06	515	507
WASH5P	-0.22473	2.56E-07	1.20E-06	515	515
NKAPL	-0.22465	2.58E-07	1.21E-06	515	507
DMRT2	-0.22465	2.58E-07	1.21E-06	515	484
CUL9	-0.22464	2.58E-07	1.21E-06	515	515
GLTSCR2	-0.22461	2.60E-07	1.22E-06	515	515
GANC	-0.2246	2.60E-07	1.22E-06	515	515
NLRC5	-0.22454	2.62E-07	1.23E-06	515	515
ZNF788	-0.22453	2.62E-07	1.23E-06	515	515
PPAPDC3	-0.2245	2.63E-07	1.23E-06	515	514
CPA3	-0.22447	2.64E-07	1.24E-06	515	514
SLC22A4	-0.22446	2.64E-07	1.24E-06	515	515
SPTLC3	-0.22445	2.65E-07	1.24E-06	515	515
ASCL4	-0.2244	2.66E-07	1.24E-06	515	222
NHSL2	-0.22438	2.67E-07	1.25E-06	515	515
TEKT4	-0.22437	2.67E-07	1.25E-06	515	503
MTMR10	-0.2243	2.70E-07	1.26E-06	515	515
C9orf9	-0.2243	2.70E-07	1.26E-06	515	515
NTF4	-0.22429	2.70E-07	1.26E-06	515	512
ZNF324B	-0.22428	2.70E-07	1.26E-06	515	515
IFNAR2	-0.22427	2.71E-07	1.26E-06	515	515
DKFZp434	-0.22425	2.71E-07	1.27E-06	515	434
CLU	-0.22423	2.72E-07	1.27E-06	515	515
LOC10013	-0.22423	2.72E-07	1.27E-06	515	515
OLFML1	-0.22422	2.72E-07	1.27E-06	515	515
LILRA6	-0.22421	2.73E-07	1.27E-06	515	515
IRX5	-0.2242	2.73E-07	1.27E-06	515	514
SCGB1A1	-0.22419	2.73E-07	1.27E-06	515	498
DEF8	-0.22419	2.73E-07	1.27E-06	515	515
STX10	-0.22418	2.74E-07	1.27E-06	515	515
CDCP2	-0.22409	2.77E-07	1.29E-06	515	321
NCRNA00	-0.22404	2.79E-07	1.29E-06	515	496
DLL1	-0.22402	2.79E-07	1.30E-06	515	515
ZNF546	-0.22402	2.79E-07	1.30E-06	515	515
SLAMF1	-0.22399	2.81E-07	1.30E-06	515	515

ZC3H7B	-0.22397	2.81E-07	1.31E-06	515	515
WDR8	-0.22392	2.83E-07	1.31E-06	515	515
DAPK3	-0.22392	2.83E-07	1.31E-06	515	515
ZNF747	-0.22391	2.83E-07	1.31E-06	515	515
GRM2	-0.22391	2.83E-07	1.31E-06	515	503
BMX	-0.2239	2.84E-07	1.31E-06	515	508
KCNA2	-0.22388	2.84E-07	1.32E-06	515	428
ZNF214	-0.22388	2.84E-07	1.32E-06	515	514
SPSB4	-0.22385	2.85E-07	1.32E-06	515	498
MPL	-0.2238	2.87E-07	1.33E-06	515	515
IRF9	-0.22371	2.90E-07	1.34E-06	515	515
PPP3CC	-0.22369	2.91E-07	1.35E-06	515	515
SLC34A2	-0.22369	2.91E-07	1.35E-06	515	515
C22orf34	-0.22362	2.94E-07	1.36E-06	515	470
NMUR1	-0.2236	2.94E-07	1.36E-06	515	514
LOC10013	-0.2236	2.94E-07	1.36E-06	515	515
OLR1	-0.22359	2.95E-07	1.36E-06	515	515
SSPO	-0.22356	2.96E-07	1.37E-06	515	510
LOC10014	-0.22355	2.96E-07	1.37E-06	515	444
ABHD8	-0.22355	2.96E-07	1.37E-06	515	515
RCAN1	-0.22354	2.96E-07	1.37E-06	515	515
STOM	-0.22352	2.97E-07	1.37E-06	515	515
LOR	-0.22352	2.97E-07	1.37E-06	515	199
LOC44186	-0.22343	3.01E-07	1.39E-06	515	515
TMCC2	-0.2234	3.02E-07	1.39E-06	515	515
PTPRT	-0.22339	3.02E-07	1.39E-06	515	479
TMEM37	-0.22333	3.05E-07	1.40E-06	515	515
C5orf39	-0.22331	3.05E-07	1.40E-06	515	515
MGC1612	-0.22323	3.08E-07	1.42E-06	515	508
CST7	-0.2232	3.09E-07	1.42E-06	515	515
ZNF79	-0.22315	3.11E-07	1.43E-06	515	515
BEX5	-0.22311	3.13E-07	1.44E-06	515	515
EMCN	-0.22311	3.13E-07	1.44E-06	515	515
FAM54B	-0.22309	3.14E-07	1.44E-06	515	515
SH3BGR	-0.22308	3.14E-07	1.44E-06	515	515
AGAP5	-0.22302	3.16E-07	1.45E-06	515	515
TMCO6	-0.22302	3.16E-07	1.45E-06	515	515
LOC65036	-0.22302	3.17E-07	1.45E-06	515	515
ADRA2A	-0.22294	3.20E-07	1.47E-06	515	515
FAM138F	-0.2229	3.21E-07	1.47E-06	515	276
VSIG4	-0.2229	3.21E-07	1.47E-06	515	515
FCGR1C	-0.22282	3.25E-07	1.49E-06	515	515
NEK11	-0.22281	3.25E-07	1.49E-06	515	515
NR2E3	-0.22275	3.27E-07	1.50E-06	515	469

DERL3	-0.22274	3.28E-07	1.50E-06	515	515
RARA	-0.2227	3.29E-07	1.51E-06	515	515
TNNC1	-0.22267	3.30E-07	1.51E-06	515	510
NRG2	-0.22265	3.31E-07	1.51E-06	515	485
PTGDR	-0.22263	3.32E-07	1.52E-06	515	514
HMOX2	-0.22261	3.33E-07	1.52E-06	515	515
ADPRHL2	-0.22257	3.35E-07	1.53E-06	515	515
ZNF358	-0.22256	3.35E-07	1.53E-06	515	515
EGFL8	-0.22255	3.35E-07	1.53E-06	515	510
DIO3OS	-0.22253	3.36E-07	1.53E-06	515	348
AKAP14	-0.22247	3.39E-07	1.55E-06	515	362
TNFSF12-	-0.22247	3.39E-07	1.55E-06	515	510
SDHAP1	-0.22244	3.40E-07	1.55E-06	515	515
C21orf121	-0.22241	3.41E-07	1.56E-06	515	365
KIAA0040	-0.2224	3.42E-07	1.56E-06	515	515
ARHGEF9	-0.22239	3.42E-07	1.56E-06	515	515
MYH2	-0.22238	3.43E-07	1.56E-06	515	333
NTF3	-0.22237	3.43E-07	1.56E-06	515	507
CYP4F22	-0.22231	3.46E-07	1.57E-06	515	490
THYN1	-0.22228	3.47E-07	1.58E-06	515	515
ALDH8A1	-0.22223	3.49E-07	1.59E-06	515	507
PCDH20	-0.22222	3.50E-07	1.59E-06	515	512
HIRIP3	-0.22219	3.51E-07	1.60E-06	515	515
HAVCR2	-0.22212	3.54E-07	1.61E-06	515	515
IFI30	-0.22207	3.56E-07	1.62E-06	515	515
CD36	-0.22206	3.56E-07	1.62E-06	515	515
IDS	-0.22204	3.57E-07	1.62E-06	515	515
IRF4	-0.22189	3.64E-07	1.65E-06	515	515
IL33	-0.22186	3.66E-07	1.66E-06	515	515
RING1	-0.22186	3.66E-07	1.66E-06	515	515
C6orf145	-0.22184	3.66E-07	1.66E-06	515	515
FAM65B	-0.22179	3.69E-07	1.67E-06	515	515
TTC23L	-0.22172	3.72E-07	1.68E-06	515	506
GUSB	-0.22172	3.72E-07	1.68E-06	515	515
LTBP3	-0.22166	3.74E-07	1.70E-06	515	515
CDK11A	-0.22164	3.75E-07	1.70E-06	515	515
LOC10021	-0.22164	3.75E-07	1.70E-06	515	515
KRBA1	-0.22163	3.76E-07	1.70E-06	515	515
RBM44	-0.22163	3.76E-07	1.70E-06	515	508
NKX2-1	-0.22159	3.78E-07	1.71E-06	515	515
MTMR14	-0.22158	3.79E-07	1.71E-06	515	515
GALT	-0.22157	3.79E-07	1.71E-06	515	515
EBI3	-0.22155	3.80E-07	1.72E-06	515	514
TM6SF1	-0.22152	3.81E-07	1.72E-06	515	515

EGR3	-0.22148	3.83E-07	1.73E-06	515	515
CCDC74B	-0.22146	3.84E-07	1.73E-06	515	514
LINGO3	-0.2214	3.87E-07	1.75E-06	515	353
LPPR5	-0.2214	3.87E-07	1.75E-06	515	312
HLA-H	-0.22116	3.98E-07	1.80E-06	515	515
C21orf62	-0.22116	3.99E-07	1.80E-06	515	403
RP1-177G	-0.22112	4.00E-07	1.80E-06	515	129
TERF2IP	-0.22107	4.03E-07	1.81E-06	515	515
WDR81	-0.22107	4.03E-07	1.81E-06	515	515
GNRHR2	-0.22107	4.03E-07	1.81E-06	515	515
STX1B	-0.22099	4.07E-07	1.83E-06	515	515
AGBL2	-0.22096	4.09E-07	1.84E-06	515	512
RASL11A	-0.22092	4.10E-07	1.84E-06	515	515
OAZ1	-0.22091	4.11E-07	1.85E-06	515	515
CXorf41	-0.22087	4.13E-07	1.86E-06	515	359
SRPX	-0.22086	4.14E-07	1.86E-06	515	515
SLC25A28	-0.22086	4.14E-07	1.86E-06	515	515
RTDR1	-0.22085	4.14E-07	1.86E-06	515	472
MRVI1	-0.22084	4.14E-07	1.86E-06	515	515
LOC64300	-0.22083	4.15E-07	1.86E-06	515	514
PGA3	-0.2208	4.17E-07	1.87E-06	515	368
FXYD5	-0.2208	4.17E-07	1.87E-06	515	515
SEC14L5	-0.22078	4.18E-07	1.87E-06	515	512
TDRD3	-0.22074	4.20E-07	1.88E-06	515	515
TEX9	-0.22071	4.22E-07	1.89E-06	515	515
HSD11B1L	-0.2207	4.22E-07	1.89E-06	515	515
TMCO2	-0.22068	4.23E-07	1.89E-06	515	164
GLYCTK	-0.22068	4.23E-07	1.89E-06	515	515
DOC2A	-0.22056	4.29E-07	1.92E-06	515	508
OSR1	-0.22054	4.30E-07	1.93E-06	515	515
GEFT	-0.22052	4.31E-07	1.93E-06	515	515
EPB41L2	-0.2205	4.32E-07	1.93E-06	515	515
OVCH2	-0.22049	4.33E-07	1.94E-06	515	274
PAX6	-0.22043	4.36E-07	1.95E-06	515	515
SIPA1	-0.22042	4.37E-07	1.95E-06	515	515
SEC1	-0.2204	4.38E-07	1.95E-06	515	513
APOBEC3F	-0.22039	4.39E-07	1.96E-06	515	515
C14orf181	-0.22035	4.41E-07	1.97E-06	515	515
ATG4B	-0.22034	4.41E-07	1.97E-06	515	515
C6orf141	-0.22032	4.42E-07	1.97E-06	515	510
ZMIZ2	-0.22028	4.44E-07	1.98E-06	515	515
CCNL1	-0.22019	4.49E-07	2.00E-06	515	515
CHRM1	-0.22019	4.49E-07	2.00E-06	515	396
GALC	-0.22012	4.53E-07	2.02E-06	515	515

XKR4	-0.22012	4.53E-07	2.02E-06	515	363
NUCB1	-0.22011	4.54E-07	2.02E-06	515	515
C6orf59	-0.22009	4.55E-07	2.03E-06	515	492
ARRDC2	-0.22006	4.56E-07	2.03E-06	515	515
H2BFXP	-0.22005	4.57E-07	2.03E-06	515	457
ROBO4	-0.22005	4.57E-07	2.03E-06	515	515
LHFPL3	-0.22004	4.57E-07	2.03E-06	515	463
SNORA39	-0.22002	4.59E-07	2.04E-06	515	504
MCOLN2	-0.21997	4.61E-07	2.05E-06	515	514
ENDOU	-0.21997	4.62E-07	2.05E-06	515	459
ATP6V1G2	-0.21996	4.62E-07	2.05E-06	515	515
CRMP1	-0.21995	4.62E-07	2.05E-06	515	515
GUSBP3	-0.21994	4.63E-07	2.06E-06	515	515
CHD5	-0.21993	4.64E-07	2.06E-06	515	439
PLA2G1B	-0.21991	4.65E-07	2.06E-06	515	491
MPP1	-0.21985	4.68E-07	2.08E-06	515	515
PRMT8	-0.21984	4.69E-07	2.08E-06	515	444
ZC3H12B	-0.21984	4.69E-07	2.08E-06	515	515
POLDIP3	-0.21983	4.70E-07	2.08E-06	515	515
WDR54	-0.21981	4.70E-07	2.08E-06	515	515
MS4A1	-0.21975	4.74E-07	2.10E-06	515	514
C21orf58	-0.2197	4.77E-07	2.11E-06	515	515
NUBP1	-0.21969	4.78E-07	2.11E-06	515	515
RERG	-0.21969	4.78E-07	2.11E-06	515	515
ST3GAL3	-0.21968	4.78E-07	2.12E-06	515	515
PARP8	-0.21963	4.81E-07	2.13E-06	515	515
ATPIF1	-0.21957	4.85E-07	2.14E-06	515	515
BEST1	-0.21953	4.87E-07	2.15E-06	515	515
FLJ35390	-0.21948	4.90E-07	2.16E-06	515	515
RS1	-0.21947	4.91E-07	2.17E-06	515	479
GOLGA8B	-0.21946	4.91E-07	2.17E-06	515	515
MFSD4	-0.21936	4.97E-07	2.19E-06	515	515
C11orf2	-0.21936	4.98E-07	2.19E-06	515	515
CTSF	-0.21935	4.98E-07	2.19E-06	515	515
DNAH10	-0.21933	4.99E-07	2.20E-06	515	515
ITGA8	-0.21933	4.99E-07	2.20E-06	515	512
POM121L	-0.21926	5.03E-07	2.22E-06	515	204
MCART6	-0.21922	5.06E-07	2.22E-06	515	514
CLTB	-0.21921	5.07E-07	2.23E-06	515	515
RAB33A	-0.21919	5.08E-07	2.23E-06	515	515
ORMDL3	-0.21919	5.08E-07	2.23E-06	515	515
CNN1	-0.21918	5.09E-07	2.24E-06	515	515
CD19	-0.21912	5.12E-07	2.25E-06	515	511
TYRP1	-0.21911	5.13E-07	2.25E-06	515	509

IER2	-0.21911	5.13E-07	2.25E-06	515	515
MSL3	-0.21909	5.14E-07	2.26E-06	515	515
HCP5	-0.21906	5.16E-07	2.26E-06	515	515
ATP6V1B2	-0.21903	5.18E-07	2.27E-06	515	515
CRYM	-0.21901	5.19E-07	2.28E-06	515	512
WNT2B	-0.21899	5.20E-07	2.28E-06	515	515
C1orf93	-0.21899	5.21E-07	2.28E-06	515	515
CCL13	-0.21897	5.22E-07	2.29E-06	515	515
C10orf93	-0.21895	5.23E-07	2.29E-06	515	442
C2CD4C	-0.21895	5.23E-07	2.29E-06	515	511
CD69	-0.21894	5.23E-07	2.29E-06	515	515
SNX25	-0.21889	5.27E-07	2.31E-06	515	515
ZNF823	-0.21889	5.27E-07	2.31E-06	515	515
PPIL2	-0.21889	5.27E-07	2.31E-06	515	515
NNAT	-0.21887	5.28E-07	2.31E-06	515	515
SLC44A2	-0.21886	5.29E-07	2.31E-06	515	515
IL21R	-0.2188	5.33E-07	2.33E-06	515	515
TMEM163	-0.21879	5.33E-07	2.33E-06	515	515
DAGLB	-0.21879	5.33E-07	2.33E-06	515	515
ZNF528	-0.21875	5.36E-07	2.34E-06	515	515
OTC	-0.21871	5.38E-07	2.35E-06	515	240
JUNB	-0.2187	5.39E-07	2.36E-06	515	515
RGS14	-0.21868	5.40E-07	2.36E-06	515	515
C12orf68	-0.21863	5.44E-07	2.37E-06	515	515
GLDN	-0.21862	5.45E-07	2.38E-06	515	515
ALPL	-0.2186	5.46E-07	2.38E-06	515	515
AKAP13	-0.21853	5.50E-07	2.40E-06	515	515
SNRNP70	-0.2184	5.60E-07	2.44E-06	515	515
LRSAM1	-0.21836	5.62E-07	2.45E-06	515	515
TSC2	-0.21835	5.63E-07	2.45E-06	515	515
NGFR	-0.21832	5.64E-07	2.46E-06	515	515
MEF2B	-0.2183	5.66E-07	2.46E-06	515	512
LDB1	-0.21828	5.68E-07	2.47E-06	515	515
TTLL11	-0.21827	5.68E-07	2.47E-06	515	515
LOC72999	-0.21825	5.69E-07	2.48E-06	515	512
LOC28579	-0.21825	5.70E-07	2.48E-06	515	199
ABAT	-0.21823	5.71E-07	2.48E-06	515	515
LOC72999	-0.21818	5.74E-07	2.50E-06	515	515
NR0B2	-0.21816	5.76E-07	2.50E-06	515	497
ALKBH3	-0.21814	5.78E-07	2.51E-06	515	515
LOXL1	-0.21813	5.78E-07	2.51E-06	515	515
CPLX3	-0.21807	5.82E-07	2.53E-06	515	311
LGR5	-0.21802	5.85E-07	2.54E-06	515	508
CDADC1	-0.21802	5.86E-07	2.54E-06	515	515

BMF	-0.21798	5.88E-07	2.55E-06	515	515
FLJ42709	-0.21797	5.89E-07	2.56E-06	515	515
TFEC	-0.21793	5.92E-07	2.57E-06	515	515
DKFZP686l	-0.21789	5.95E-07	2.58E-06	515	515
C4orf47	-0.21785	5.98E-07	2.59E-06	515	509
DHRS9	-0.21785	5.98E-07	2.59E-06	515	515
LIMK2	-0.21776	6.05E-07	2.62E-06	515	515
ZFYVE27	-0.21772	6.07E-07	2.63E-06	515	515
PABPC1L	-0.21772	6.08E-07	2.63E-06	515	515
CPNE5	-0.21769	6.09E-07	2.64E-06	515	515
CYP4A22	-0.21764	6.14E-07	2.66E-06	515	186
PMP22	-0.21759	6.17E-07	2.67E-06	515	515
DAPK1	-0.21757	6.18E-07	2.67E-06	515	515
CAPSL	-0.21753	6.22E-07	2.69E-06	515	456
C6orf155	-0.21751	6.23E-07	2.69E-06	515	508
LAMB2	-0.21751	6.23E-07	2.69E-06	515	515
SHROOM4	-0.2175	6.24E-07	2.69E-06	515	515
DPH1	-0.21749	6.25E-07	2.70E-06	515	515
ABCC6P2	-0.21748	6.25E-07	2.70E-06	515	514
PTPRZ1	-0.21743	6.29E-07	2.71E-06	515	505
GPR68	-0.21739	6.32E-07	2.73E-06	515	515
KIAA0913	-0.21738	6.33E-07	2.73E-06	515	515
APH1B	-0.21735	6.35E-07	2.74E-06	515	515
NCAPH2	-0.2173	6.40E-07	2.76E-06	515	515
FAM129A	-0.21726	6.43E-07	2.77E-06	515	515
FCER1G	-0.21723	6.45E-07	2.78E-06	515	515
NRN1	-0.21718	6.48E-07	2.79E-06	515	515
C5orf32	-0.21717	6.50E-07	2.80E-06	515	515
POLR2J4	-0.21704	6.60E-07	2.84E-06	515	515
NALCN	-0.21695	6.67E-07	2.87E-06	515	514
TMEM185	-0.21688	6.73E-07	2.89E-06	515	515
CLDN16	-0.21686	6.74E-07	2.90E-06	515	448
PEG3	-0.21686	6.74E-07	2.90E-06	515	515
LOC38963	-0.21682	6.78E-07	2.91E-06	515	506
GBA2	-0.2168	6.79E-07	2.92E-06	515	515
ZNF17	-0.21674	6.84E-07	2.94E-06	515	515
FAM3A	-0.2167	6.87E-07	2.95E-06	515	515
MYH1	-0.21668	6.89E-07	2.96E-06	515	301
ZNF444	-0.21668	6.89E-07	2.96E-06	515	515
ZNF346	-0.21663	6.93E-07	2.97E-06	515	515
ITIH1	-0.21663	6.94E-07	2.98E-06	515	361
FAM46C	-0.21659	6.96E-07	2.99E-06	515	515
FCGR1B	-0.21654	7.01E-07	3.00E-06	515	515
WDR6	-0.21654	7.01E-07	3.00E-06	515	515

TMEM125	-0.21654	7.01E-07	3.00E-06	515	515
ARRDC1	-0.21653	7.02E-07	3.01E-06	515	515
KIAA1751	-0.21647	7.07E-07	3.03E-06	515	483
CACNA2D	-0.21647	7.07E-07	3.03E-06	515	515
PIP5K1B	-0.21644	7.09E-07	3.04E-06	515	515
LCP2	-0.21644	7.09E-07	3.04E-06	515	515
CTSW	-0.21642	7.11E-07	3.04E-06	515	515
C22orf43	-0.21641	7.12E-07	3.04E-06	515	385
MRGPRF	-0.21639	7.14E-07	3.05E-06	515	515
CAMK4	-0.21637	7.16E-07	3.06E-06	515	512
PYROXD2	-0.21631	7.20E-07	3.08E-06	515	515
ANKRD13	-0.21627	7.24E-07	3.09E-06	515	515
MGC2328	-0.21624	7.27E-07	3.10E-06	515	515
ZNF19	-0.21618	7.32E-07	3.13E-06	515	515
C9orf50	-0.21616	7.33E-07	3.13E-06	515	364
ICAM2	-0.21613	7.36E-07	3.14E-06	515	515
CFI	-0.21613	7.37E-07	3.14E-06	515	515
ZBTB32	-0.21613	7.37E-07	3.14E-06	515	512
CAMK1D	-0.21611	7.38E-07	3.15E-06	515	515
GDF10	-0.21609	7.40E-07	3.16E-06	515	511
DLC1	-0.21608	7.41E-07	3.16E-06	515	515
CALML4	-0.21606	7.42E-07	3.16E-06	515	515
HABP2	-0.21605	7.43E-07	3.17E-06	515	509
PEX14	-0.21603	7.46E-07	3.17E-06	515	515
C1QTNF8	-0.21601	7.47E-07	3.18E-06	515	112
POM121L	-0.21593	7.55E-07	3.21E-06	515	462
LOC14814	-0.21577	7.69E-07	3.26E-06	515	134
DGCR2	-0.21576	7.70E-07	3.27E-06	515	515
VWA3B	-0.21567	7.78E-07	3.30E-06	515	511
C9orf37	-0.21567	7.79E-07	3.30E-06	515	515
CES3	-0.21562	7.83E-07	3.32E-06	515	515
LOC40079	-0.2156	7.85E-07	3.33E-06	515	407
MXRA8	-0.21558	7.86E-07	3.33E-06	515	515
RGS18	-0.21557	7.88E-07	3.34E-06	515	514
PLCG1	-0.21551	7.94E-07	3.36E-06	515	515
SH3BGRL	-0.21549	7.95E-07	3.37E-06	515	515
SIRT6	-0.21548	7.97E-07	3.37E-06	515	515
THSD7B	-0.21547	7.98E-07	3.38E-06	515	506
ABCA2	-0.21547	7.98E-07	3.38E-06	515	515
JOSD2	-0.21546	7.98E-07	3.38E-06	515	515
FLJ40852	-0.21544	8.00E-07	3.39E-06	515	515
DPY19L2P	-0.21542	8.02E-07	3.39E-06	515	405
SLC26A8	-0.21542	8.02E-07	3.39E-06	515	477
NOD2	-0.21536	8.08E-07	3.41E-06	515	515

SSC5D	-0.21534	8.10E-07	3.42E-06	515	515
C10orf79	-0.21529	8.15E-07	3.44E-06	515	514
NFIA	-0.21529	8.15E-07	3.44E-06	515	515
UCK1	-0.21519	8.25E-07	3.48E-06	515	515
IL17RC	-0.21515	8.28E-07	3.49E-06	515	515
SPATA4	-0.21513	8.30E-07	3.50E-06	515	401
COL19A1	-0.21511	8.33E-07	3.51E-06	515	436
KCNQ1	-0.21505	8.39E-07	3.53E-06	515	515
RUNX1T1	-0.21503	8.41E-07	3.54E-06	515	512
ECT2L	-0.21501	8.43E-07	3.55E-06	515	515
VIT	-0.215	8.44E-07	3.55E-06	515	384
APOL4	-0.21484	8.60E-07	3.62E-06	515	515
IL4R	-0.2148	8.64E-07	3.63E-06	515	515
CYTIP	-0.21473	8.72E-07	3.66E-06	515	515
MORN3	-0.21468	8.77E-07	3.68E-06	515	512
CCT6P1	-0.21468	8.77E-07	3.68E-06	515	515
LRRC52	-0.21467	8.78E-07	3.69E-06	515	394
TCF4	-0.21465	8.80E-07	3.69E-06	515	515
LOC10028	-0.21463	8.82E-07	3.70E-06	515	348
C8orf48	-0.21463	8.82E-07	3.70E-06	515	514
CYFIP2	-0.21461	8.84E-07	3.71E-06	515	515
C6orf123	-0.21457	8.88E-07	3.72E-06	515	509
PCDH11X	-0.21456	8.89E-07	3.73E-06	515	376
LRTOMT	-0.21454	8.91E-07	3.73E-06	515	515
TMEM178	-0.21452	8.93E-07	3.74E-06	515	515
JPH2	-0.21451	8.94E-07	3.75E-06	515	515
PQLC1	-0.21451	8.95E-07	3.75E-06	515	515
CALHM1	-0.21449	8.97E-07	3.75E-06	515	408
CCR9	-0.21447	8.99E-07	3.76E-06	515	439
CCR5	-0.21446	9.00E-07	3.77E-06	515	515
ATP13A5	-0.21443	9.04E-07	3.78E-06	515	416
LOC28423	-0.2144	9.07E-07	3.79E-06	515	494
NRBP2	-0.21439	9.08E-07	3.79E-06	515	515
LRP1	-0.21438	9.09E-07	3.80E-06	515	515
CORO6	-0.21435	9.12E-07	3.81E-06	515	513
KCNK4	-0.21432	9.15E-07	3.82E-06	515	375
WNT10A	-0.21431	9.16E-07	3.83E-06	515	515
PPP1R14C	-0.21429	9.18E-07	3.83E-06	515	515
IRX6	-0.21428	9.20E-07	3.84E-06	515	496
RASIP1	-0.21425	9.23E-07	3.85E-06	515	515
RTEL1	-0.21423	9.25E-07	3.86E-06	515	515
GOLGA6L	-0.21419	9.30E-07	3.87E-06	515	515
YPEL4	-0.21415	9.34E-07	3.89E-06	515	515
C1QTNF1	-0.21413	9.36E-07	3.90E-06	515	515

POU2F3	-0.21412	9.37E-07	3.90E-06	515	514
WBP2NL	-0.2141	9.39E-07	3.91E-06	515	503
UPF3A	-0.21408	9.42E-07	3.92E-06	515	515
RIMBP3C	-0.21407	9.43E-07	3.93E-06	515	505
KCNJ15	-0.21405	9.45E-07	3.93E-06	515	515
CACNA1G	-0.214	9.51E-07	3.96E-06	515	505
SPATA9	-0.21396	9.55E-07	3.97E-06	515	511
PTPRQ	-0.21383	9.70E-07	4.03E-06	515	400
LOC10012	-0.21382	9.72E-07	4.04E-06	515	513
FGFBP2	-0.21377	9.77E-07	4.06E-06	515	505
PIK3CG	-0.21374	9.81E-07	4.08E-06	515	515
SFTA3	-0.21371	9.85E-07	4.09E-06	515	512
ALS2CL	-0.2137	9.86E-07	4.09E-06	515	515
ATP2B2	-0.21365	9.92E-07	4.12E-06	515	430
LOC61920	-0.21355	1.00E-06	4.16E-06	515	513
LGR6	-0.21355	1.00E-06	4.16E-06	515	515
THAP7	-0.21355	1.00E-06	4.16E-06	515	515
NAPSA	-0.21353	1.01E-06	4.17E-06	515	515
CXorf57	-0.21352	1.01E-06	4.17E-06	515	514
LOC14366	-0.2135	1.01E-06	4.18E-06	515	515
C1orf88	-0.21347	1.01E-06	4.19E-06	515	515
ATXN1	-0.21346	1.01E-06	4.20E-06	515	515
SLC7A7	-0.21345	1.02E-06	4.21E-06	515	515
XPA	-0.21337	1.03E-06	4.24E-06	515	515
PLA2G3	-0.21334	1.03E-06	4.26E-06	515	475
AQP5	-0.21333	1.03E-06	4.26E-06	515	509
GHRLOS	-0.2133	1.03E-06	4.27E-06	515	512
FGL2	-0.21328	1.04E-06	4.29E-06	515	515
HMGCLL1	-0.21327	1.04E-06	4.29E-06	515	503
LOC15019	-0.21327	1.04E-06	4.29E-06	515	503
LRIG1	-0.21323	1.04E-06	4.31E-06	515	515
SYT11	-0.2132	1.05E-06	4.32E-06	515	515
PPP1R12B	-0.21311	1.06E-06	4.36E-06	515	515
AGR3	-0.2131	1.06E-06	4.37E-06	515	511
FAM71F2	-0.21309	1.06E-06	4.37E-06	515	498
BTN1A1	-0.21305	1.06E-06	4.39E-06	515	445
PI4KAP2	-0.21303	1.07E-06	4.40E-06	515	515
LOC10028	-0.21301	1.07E-06	4.41E-06	515	515
WDFY4	-0.21301	1.07E-06	4.41E-06	515	515
NAGA	-0.213	1.07E-06	4.41E-06	515	515
C2orf77	-0.213	1.07E-06	4.41E-06	515	515
C22orf40	-0.21299	1.07E-06	4.41E-06	515	515
C22orf45	-0.21292	1.08E-06	4.45E-06	515	491
ZBTB4	-0.2129	1.08E-06	4.46E-06	515	515

CP110	-0.21279	1.10E-06	4.52E-06	515	515
DTX4	-0.21278	1.10E-06	4.52E-06	515	515
KCNK13	-0.21277	1.10E-06	4.52E-06	515	514
ANKRD54	-0.21277	1.10E-06	4.52E-06	515	515
CCDC102	-0.21276	1.10E-06	4.53E-06	515	515
NR1I2	-0.21274	1.10E-06	4.54E-06	515	491
NCRNA00	-0.21273	1.11E-06	4.54E-06	515	234
HAPLN4	-0.21273	1.11E-06	4.54E-06	515	498
SIRPB1	-0.21273	1.11E-06	4.54E-06	515	515
FLJ42289	-0.2127	1.11E-06	4.56E-06	515	514
ITGA9	-0.21254	1.13E-06	4.64E-06	515	515
EFHC2	-0.21253	1.13E-06	4.64E-06	515	513
BCHE	-0.21249	1.14E-06	4.67E-06	515	514
RSPH9	-0.21248	1.14E-06	4.67E-06	515	515
CLDN23	-0.2124	1.15E-06	4.72E-06	515	515
CYMP	-0.21237	1.15E-06	4.73E-06	515	180
SLC2A11	-0.21236	1.16E-06	4.73E-06	515	515
SFTA1P	-0.21229	1.16E-06	4.77E-06	515	513
PCSK4	-0.21227	1.17E-06	4.78E-06	515	513
TACC1	-0.21217	1.18E-06	4.84E-06	515	515
PLCD1	-0.21216	1.18E-06	4.84E-06	515	515
MAGEE2	-0.21216	1.18E-06	4.84E-06	515	432
CHRNB3	-0.21213	1.19E-06	4.85E-06	515	154
GUCY1A3	-0.21209	1.19E-06	4.88E-06	515	515
CHST9	-0.21204	1.20E-06	4.90E-06	515	461
ZNF536	-0.21202	1.20E-06	4.91E-06	515	316
HNMT	-0.21197	1.21E-06	4.94E-06	515	515
MAP3K11	-0.21191	1.22E-06	4.97E-06	515	515
CBLN3	-0.21187	1.22E-06	4.99E-06	515	515
RHBDD2	-0.21186	1.23E-06	5.00E-06	515	515
ADAM20	-0.21186	1.23E-06	5.00E-06	515	411
CCDC74A	-0.21186	1.23E-06	5.00E-06	515	515
ASTE1	-0.21183	1.23E-06	5.01E-06	515	515
TMEM211	-0.2118	1.23E-06	5.03E-06	515	195
C20orf203	-0.21173	1.25E-06	5.07E-06	515	417
KLF13	-0.21166	1.26E-06	5.11E-06	515	515
IFT57	-0.21166	1.26E-06	5.11E-06	515	515
VASN	-0.21165	1.26E-06	5.12E-06	515	515
DGCR14	-0.21163	1.26E-06	5.13E-06	515	515
NEURL2	-0.21154	1.27E-06	5.18E-06	515	515
NEAT1	-0.21149	1.28E-06	5.21E-06	515	515
HAS3	-0.21148	1.28E-06	5.21E-06	515	515
TAZ	-0.21148	1.28E-06	5.21E-06	515	515
PID1	-0.21147	1.28E-06	5.21E-06	515	515

DUOXA1	-0.21138	1.30E-06	5.27E-06	515	512
C16orf42	-0.21136	1.30E-06	5.28E-06	515	515
MAP3K5	-0.21135	1.30E-06	5.28E-06	515	515
CCR4	-0.21131	1.31E-06	5.31E-06	515	513
LOC28386	-0.21129	1.31E-06	5.32E-06	515	496
SLC12A5	-0.21118	1.33E-06	5.39E-06	515	503
SFRP5	-0.21114	1.33E-06	5.41E-06	515	459
GVIN1	-0.21111	1.34E-06	5.43E-06	515	515
KIF19	-0.21104	1.35E-06	5.47E-06	515	508
PLD2	-0.21099	1.36E-06	5.50E-06	515	515
SCGB2A1	-0.21098	1.36E-06	5.50E-06	515	454
GADL1	-0.21095	1.36E-06	5.52E-06	515	306
ZNF43	-0.21092	1.37E-06	5.54E-06	515	515
RNF207	-0.21091	1.37E-06	5.55E-06	515	515
APLP2	-0.21079	1.39E-06	5.62E-06	515	515
SLC43A3	-0.21078	1.39E-06	5.63E-06	515	515
TAF6L	-0.21078	1.39E-06	5.63E-06	515	515
ZNF799	-0.21076	1.40E-06	5.64E-06	515	515
AGAP6	-0.21074	1.40E-06	5.65E-06	515	515
MS4A4A	-0.21073	1.40E-06	5.66E-06	515	515
CMA1	-0.21072	1.40E-06	5.66E-06	515	327
ZSCAN1	-0.2107	1.41E-06	5.68E-06	515	383
MOBK2A	-0.21066	1.41E-06	5.70E-06	515	515
ZNF506	-0.21065	1.41E-06	5.71E-06	515	515
HABP4	-0.21062	1.42E-06	5.73E-06	515	515
PGM5	-0.21059	1.42E-06	5.74E-06	515	515
C11orf67	-0.21055	1.43E-06	5.77E-06	515	515
KIAA1755	-0.21055	1.43E-06	5.77E-06	515	515
HAGH	-0.21053	1.43E-06	5.78E-06	515	515
NMNAT1	-0.21053	1.43E-06	5.78E-06	515	515
ZNF677	-0.21053	1.43E-06	5.78E-06	515	515
HERC1	-0.21047	1.44E-06	5.82E-06	515	515
DIO1	-0.21042	1.45E-06	5.85E-06	515	500
ZNF321	-0.2104	1.46E-06	5.86E-06	515	515
POLH	-0.21038	1.46E-06	5.87E-06	515	515
TNR	-0.21038	1.46E-06	5.87E-06	515	323
FRMD4B	-0.21035	1.47E-06	5.89E-06	515	515
C1orf192	-0.21033	1.47E-06	5.91E-06	515	515
SLAMF8	-0.2103	1.47E-06	5.92E-06	515	515
SLC47A1	-0.21026	1.48E-06	5.95E-06	515	515
ZMIZ1	-0.21021	1.49E-06	5.98E-06	515	515
CDKL3	-0.21017	1.50E-06	6.01E-06	515	515
C21orf128	-0.21016	1.50E-06	6.01E-06	515	448
TNFRSF8	-0.21009	1.51E-06	6.07E-06	515	515

SLC5A9	-0.21006	1.52E-06	6.08E-06	515	510
ASMTL	-0.21004	1.52E-06	6.09E-06	515	515
SARDH	-0.20993	1.54E-06	6.17E-06	515	515
AKAP3	-0.20992	1.54E-06	6.18E-06	515	514
IMPG1	-0.2099	1.54E-06	6.19E-06	515	494
RAGE	-0.20986	1.55E-06	6.22E-06	515	515
ARHGAP1	-0.20986	1.55E-06	6.22E-06	515	515
RRP7B	-0.20985	1.55E-06	6.22E-06	515	515
SH3TC1	-0.20983	1.56E-06	6.23E-06	515	515
NMT2	-0.20981	1.56E-06	6.25E-06	515	515
CREB5	-0.20968	1.58E-06	6.34E-06	515	515
AHNAK	-0.20967	1.59E-06	6.34E-06	515	515
DIDO1	-0.20961	1.60E-06	6.39E-06	515	515
CTRL	-0.20959	1.60E-06	6.40E-06	515	514
LOC10013	-0.20947	1.62E-06	6.48E-06	515	515
ODF3L1	-0.20947	1.62E-06	6.48E-06	515	512
FAM47C	-0.20944	1.63E-06	6.50E-06	515	153
FCGR2A	-0.20942	1.63E-06	6.52E-06	515	515
RELT	-0.20929	1.66E-06	6.61E-06	515	515
SLC22A1	-0.20927	1.66E-06	6.63E-06	515	457
OLIG1	-0.20915	1.69E-06	6.72E-06	515	454
LOC40146	-0.20911	1.69E-06	6.75E-06	515	487
LOC25688	-0.2091	1.70E-06	6.76E-06	515	501
CLDN11	-0.20908	1.70E-06	6.77E-06	515	515
PIH1D2	-0.20904	1.71E-06	6.80E-06	515	515
ADCY8	-0.20903	1.71E-06	6.80E-06	515	276
KRT73	-0.20897	1.72E-06	6.85E-06	515	128
CTTNBP2	-0.20896	1.72E-06	6.85E-06	515	515
C21orf49	-0.20888	1.74E-06	6.92E-06	515	511
NPR1	-0.20885	1.74E-06	6.94E-06	515	515
FAM74A3	-0.2088	1.76E-06	6.98E-06	515	40
C2orf73	-0.20877	1.76E-06	7.00E-06	515	425
FEM1C	-0.20873	1.77E-06	7.04E-06	515	515
LOC25303	-0.20869	1.78E-06	7.06E-06	515	515
AIFM3	-0.20867	1.78E-06	7.08E-06	515	514
CASP10	-0.20866	1.79E-06	7.09E-06	515	515
STK36	-0.20865	1.79E-06	7.09E-06	515	515
FBXW9	-0.20863	1.79E-06	7.11E-06	515	515
LOC67865	-0.20862	1.79E-06	7.12E-06	515	515
C4orf44	-0.20857	1.80E-06	7.15E-06	515	509
PTPRVP	-0.20855	1.81E-06	7.16E-06	515	466
FCGR1A	-0.20855	1.81E-06	7.17E-06	515	515
ZNF497	-0.20845	1.83E-06	7.25E-06	515	515
IRAK3	-0.20844	1.83E-06	7.25E-06	515	515

LOH3CR2	-0.20839	1.84E-06	7.29E-06	515	515
LCN10	-0.20839	1.84E-06	7.29E-06	515	508
CPNE7	-0.20832	1.86E-06	7.34E-06	515	515
ZNF14	-0.20832	1.86E-06	7.35E-06	515	515
SYCP3	-0.2083	1.86E-06	7.36E-06	515	163
ENKUR	-0.20813	1.90E-06	7.50E-06	515	510
ZNF780B	-0.20811	1.90E-06	7.51E-06	515	515
NPY6R	-0.208	1.93E-06	7.61E-06	515	357
MTHFSD	-0.20789	1.95E-06	7.70E-06	515	515
XCR1	-0.20787	1.95E-06	7.71E-06	515	469
WFDC1	-0.20784	1.96E-06	7.75E-06	515	515
C15orf26	-0.20779	1.97E-06	7.78E-06	515	473
WDR85	-0.20778	1.98E-06	7.79E-06	515	515
NRG3	-0.20772	1.99E-06	7.84E-06	515	455
MAP1S	-0.20765	2.01E-06	7.90E-06	515	515
FLJ43390	-0.20765	2.01E-06	7.90E-06	515	384
C6orf138	-0.20759	2.02E-06	7.95E-06	515	512
RELL2	-0.20758	2.02E-06	7.96E-06	515	515
HLA-DRB6	-0.20747	2.05E-06	8.06E-06	515	511
FABP4	-0.20745	2.05E-06	8.07E-06	515	511
VSIG8	-0.20741	2.06E-06	8.11E-06	515	431
AHSA2	-0.2073	2.09E-06	8.20E-06	515	515
SNCA	-0.20726	2.10E-06	8.24E-06	515	515
IL12B	-0.20724	2.10E-06	8.26E-06	515	501
TMEM91	-0.20723	2.11E-06	8.27E-06	515	515
UTS2D	-0.20719	2.12E-06	8.30E-06	515	446
MPG	-0.20714	2.13E-06	8.35E-06	515	515
HCFC1R1	-0.20713	2.13E-06	8.35E-06	515	515
LOC10012	-0.20703	2.16E-06	8.45E-06	515	515
SLC6A4	-0.20703	2.16E-06	8.45E-06	515	480
GGTLC2	-0.207	2.16E-06	8.47E-06	515	515
SERTAD1	-0.20695	2.18E-06	8.52E-06	515	515
ZFAND2B	-0.20694	2.18E-06	8.54E-06	515	515
RGS19	-0.20689	2.19E-06	8.58E-06	515	515
RHBDL3	-0.20684	2.20E-06	8.63E-06	515	507
ZBTB25	-0.20684	2.20E-06	8.63E-06	515	515
C1orf113	-0.20683	2.21E-06	8.63E-06	515	515
RAB40AL	-0.20682	2.21E-06	8.64E-06	515	511
FCGR2B	-0.2068	2.21E-06	8.65E-06	515	515
ATP8B2	-0.20679	2.22E-06	8.67E-06	515	515
HSD17B13	-0.20677	2.22E-06	8.69E-06	515	514
CYBA	-0.20676	2.22E-06	8.70E-06	515	515
RBP1	-0.20673	2.23E-06	8.72E-06	515	515
PDDC1	-0.2067	2.24E-06	8.75E-06	515	515

FAM171A	-0.2067	2.24E-06	8.75E-06	515	515
WFDC6	-0.20669	2.24E-06	8.75E-06	515	219
APOC1	-0.20664	2.26E-06	8.80E-06	515	515
ZNF133	-0.20663	2.26E-06	8.81E-06	515	515
IFT46	-0.2066	2.26E-06	8.84E-06	515	515
RILP	-0.20657	2.27E-06	8.86E-06	515	515
SNAPC2	-0.2065	2.29E-06	8.94E-06	515	515
C10orf68	-0.20634	2.33E-06	9.10E-06	515	505
LOC72960	-0.20627	2.35E-06	9.16E-06	515	515
TNFSF8	-0.20621	2.37E-06	9.22E-06	515	515
TMEM154	-0.20619	2.38E-06	9.25E-06	515	515
CASC2	-0.20616	2.38E-06	9.27E-06	515	515
TMEM146	-0.20605	2.41E-06	9.38E-06	515	346
C22orf32	-0.20599	2.43E-06	9.44E-06	515	515
FLJ44606	-0.20598	2.43E-06	9.45E-06	515	515
ZNF660	-0.20596	2.44E-06	9.47E-06	515	508
ST7OT3	-0.20595	2.44E-06	9.48E-06	515	476
SHANK3	-0.20589	2.46E-06	9.54E-06	515	515
CAMKK1	-0.2058	2.48E-06	9.63E-06	515	515
LOC15837	-0.20577	2.49E-06	9.67E-06	515	515
TMPRSS3	-0.20576	2.49E-06	9.67E-06	515	515
KCNRG	-0.20568	2.52E-06	9.76E-06	515	515
CSF2	-0.20561	2.54E-06	9.83E-06	515	502
TAS2R4	-0.2056	2.54E-06	9.85E-06	515	464
NACAD	-0.20559	2.54E-06	9.85E-06	515	515
ABHD14A	-0.20558	2.55E-06	9.86E-06	515	515
SAMD4A	-0.20557	2.55E-06	9.88E-06	515	515
CLEC5A	-0.2055	2.57E-06	9.95E-06	515	515
SLC6A7	-0.2055	2.57E-06	9.95E-06	515	458
CCDC64B	-0.20548	2.57E-06	9.96E-06	515	514
ZNF80	-0.20547	2.58E-06	9.97E-06	515	488
RASA4	-0.2054	2.60E-06	1.00E-05	515	515
SOX13	-0.20539	2.60E-06	1.01E-05	515	515
NXNL1	-0.20536	2.61E-06	1.01E-05	515	49
DRD1	-0.20531	2.63E-06	1.02E-05	515	472
TMEM80	-0.20527	2.64E-06	1.02E-05	515	515
LY75	-0.20527	2.64E-06	1.02E-05	515	515
ZNF365	-0.20518	2.67E-06	1.03E-05	515	515
HBZ	-0.20513	2.68E-06	1.04E-05	515	115
TBC1D9	-0.20511	2.69E-06	1.04E-05	515	515
FAM162B	-0.20509	2.69E-06	1.04E-05	515	515
FIBIN	-0.20509	2.69E-06	1.04E-05	515	515
CSNK1G2	-0.20507	2.70E-06	1.04E-05	515	515
CAMK1G	-0.20506	2.70E-06	1.04E-05	515	514

LAYN	-0.20506	2.70E-06	1.04E-05	515	515
BPI	-0.20506	2.70E-06	1.04E-05	515	385
ZNF673	-0.20502	2.72E-06	1.05E-05	515	515
B3GALT4	-0.20501	2.72E-06	1.05E-05	515	515
MEF2A	-0.20498	2.73E-06	1.05E-05	515	515
TBC1D3B	-0.20497	2.73E-06	1.05E-05	515	515
C8orf46	-0.20497	2.73E-06	1.05E-05	515	506
LILRA1	-0.20494	2.74E-06	1.05E-05	515	504
BMPER	-0.20494	2.74E-06	1.05E-05	515	509
FBXW4	-0.20491	2.75E-06	1.06E-05	515	515
LOC28299	-0.20488	2.76E-06	1.06E-05	515	515
C19orf39	-0.20487	2.76E-06	1.06E-05	515	515
PCDH9	-0.20484	2.77E-06	1.07E-05	515	513
EMR1	-0.20482	2.78E-06	1.07E-05	515	513
WDR37	-0.20482	2.78E-06	1.07E-05	515	515
LOC10013	-0.20481	2.78E-06	1.07E-05	515	515
PDE5A	-0.20475	2.80E-06	1.08E-05	515	515
TSSK4	-0.20475	2.80E-06	1.08E-05	515	514
SIN3B	-0.20472	2.81E-06	1.08E-05	515	515
SMPX	-0.20471	2.81E-06	1.08E-05	515	380
C4orf31	-0.20468	2.82E-06	1.08E-05	515	515
C4orf7	-0.20468	2.82E-06	1.08E-05	515	466
ATP10A	-0.20466	2.83E-06	1.09E-05	515	515
BRD1	-0.20464	2.84E-06	1.09E-05	515	515
CDHR3	-0.20461	2.85E-06	1.09E-05	515	515
PIP	-0.20461	2.85E-06	1.09E-05	515	409
PLXDC2	-0.20461	2.85E-06	1.09E-05	515	515
C9orf72	-0.20461	2.85E-06	1.09E-05	515	515
TMEM205	-0.20457	2.86E-06	1.09E-05	515	515
DBC1	-0.20455	2.86E-06	1.10E-05	515	491
RCAN2	-0.20452	2.88E-06	1.10E-05	515	515
ACD	-0.2045	2.88E-06	1.10E-05	515	515
C12orf59	-0.20445	2.90E-06	1.11E-05	515	514
A1BG	-0.20444	2.90E-06	1.11E-05	515	515
TMEM63A	-0.20444	2.90E-06	1.11E-05	515	515
PYHIN1	-0.20437	2.93E-06	1.12E-05	515	514
KLRA1	-0.20434	2.94E-06	1.12E-05	515	515
ZNF302	-0.20425	2.96E-06	1.13E-05	515	515
SLC6A16	-0.20425	2.97E-06	1.13E-05	515	515
DNAL4	-0.20421	2.98E-06	1.14E-05	515	515
ZNF839	-0.20414	3.00E-06	1.15E-05	515	515
SERGEF	-0.2041	3.02E-06	1.15E-05	515	515
PLCL2	-0.2041	3.02E-06	1.15E-05	515	515
MUS81	-0.20409	3.02E-06	1.15E-05	515	515

SCAMP4	-0.20406	3.03E-06	1.16E-05	515	515
PPOX	-0.20406	3.03E-06	1.16E-05	515	515
DTNA	-0.20405	3.03E-06	1.16E-05	515	515
NRN1L	-0.20404	3.04E-06	1.16E-05	515	478
ARHGEF18	-0.20404	3.04E-06	1.16E-05	515	515
ACTG2	-0.204	3.05E-06	1.16E-05	515	515
SEPP1	-0.20397	3.06E-06	1.17E-05	515	515
TMEM217	-0.20396	3.06E-06	1.17E-05	515	515
LOC10019	-0.20386	3.10E-06	1.18E-05	515	515
FAM69C	-0.20385	3.10E-06	1.18E-05	515	323
SOSTDC1	-0.20383	3.11E-06	1.18E-05	515	482
NECAB1	-0.20382	3.11E-06	1.18E-05	515	515
C2orf65	-0.20378	3.13E-06	1.19E-05	515	511
FAT2	-0.20376	3.14E-06	1.19E-05	515	512
MID1IP1	-0.20375	3.14E-06	1.19E-05	515	515
RTN4R	-0.20375	3.14E-06	1.19E-05	515	515
BST1	-0.20372	3.15E-06	1.20E-05	515	515
ZNF784	-0.20368	3.16E-06	1.20E-05	515	515
FGGY	-0.20367	3.17E-06	1.20E-05	515	515
CSRP1	-0.20362	3.19E-06	1.21E-05	515	515
HMG3	-0.20349	3.23E-06	1.23E-05	515	515
SLC2A8	-0.20349	3.23E-06	1.23E-05	515	515
DCT	-0.20344	3.25E-06	1.23E-05	515	283
EXD3	-0.20341	3.26E-06	1.24E-05	515	515
ELMOD3	-0.20338	3.27E-06	1.24E-05	515	515
GPNMB	-0.20336	3.28E-06	1.24E-05	515	515
CYS1	-0.20336	3.28E-06	1.24E-05	515	515
CYP4V2	-0.20335	3.28E-06	1.24E-05	515	515
APOBEC3	-0.20335	3.28E-06	1.24E-05	515	515
TXLNB	-0.20324	3.33E-06	1.26E-05	515	514
PNMA6A	-0.20323	3.33E-06	1.26E-05	515	515
MPZ	-0.20323	3.33E-06	1.26E-05	515	515
PML	-0.20322	3.33E-06	1.26E-05	515	515
ITGA4	-0.20321	3.33E-06	1.26E-05	515	515
CAPG	-0.2032	3.34E-06	1.26E-05	515	515
SSBP3	-0.2031	3.38E-06	1.28E-05	515	515
ITK	-0.2031	3.38E-06	1.28E-05	515	515
MACROD2	-0.20307	3.39E-06	1.28E-05	515	515
GORASP1	-0.20306	3.39E-06	1.28E-05	515	515
DAAM2	-0.20298	3.42E-06	1.29E-05	515	515
APOBEC3	-0.20296	3.43E-06	1.30E-05	515	515
SPTBN5	-0.20294	3.44E-06	1.30E-05	515	514
PDLIM3	-0.20289	3.46E-06	1.30E-05	515	515
ESRRB	-0.20284	3.48E-06	1.31E-05	515	418

SMG6	-0.2028	3.50E-06	1.32E-05	515	515
RRAGB	-0.20278	3.50E-06	1.32E-05	515	515
FLJ45079	-0.20274	3.52E-06	1.33E-05	515	232
C9orf96	-0.20272	3.53E-06	1.33E-05	515	514
GSTM2	-0.20269	3.54E-06	1.33E-05	515	515
TNFRSF13	-0.20261	3.57E-06	1.34E-05	515	505
CCDC24	-0.20255	3.60E-06	1.35E-05	515	515
TFPT	-0.20252	3.61E-06	1.36E-05	515	515
GEMIN8	-0.20235	3.68E-06	1.38E-05	515	515
NKTR	-0.20217	3.75E-06	1.41E-05	515	515
CRAT	-0.20213	3.77E-06	1.42E-05	515	515
TMEM98	-0.20213	3.77E-06	1.42E-05	515	515
TPSD1	-0.20203	3.81E-06	1.43E-05	515	457
RAB40A	-0.20201	3.82E-06	1.43E-05	515	510
MALL	-0.20198	3.83E-06	1.44E-05	515	515
YJEFN3	-0.20197	3.84E-06	1.44E-05	515	505
ZNF837	-0.20196	3.84E-06	1.44E-05	515	513
SNHG9	-0.20188	3.88E-06	1.45E-05	515	514
TMEM139	-0.20188	3.88E-06	1.45E-05	515	514
LRRC46	-0.20187	3.88E-06	1.46E-05	515	515
SLC46A3	-0.20183	3.90E-06	1.46E-05	515	515
PDPK1	-0.20181	3.91E-06	1.46E-05	515	515
MTM1	-0.20179	3.92E-06	1.47E-05	515	515
LOC10019	-0.20176	3.93E-06	1.47E-05	515	514
TEK	-0.20175	3.93E-06	1.47E-05	515	515
LSS	-0.20175	3.93E-06	1.47E-05	515	515
C21orf29	-0.20172	3.95E-06	1.48E-05	515	494
MBOAT4	-0.20159	4.01E-06	1.50E-05	515	498
FBXL15	-0.20156	4.02E-06	1.50E-05	515	515
ACCN4	-0.20156	4.02E-06	1.50E-05	515	458
GRM7	-0.20156	4.02E-06	1.50E-05	515	332
SH3GL3	-0.20153	4.03E-06	1.51E-05	515	375
C11orf75	-0.20153	4.03E-06	1.51E-05	515	515
B2M	-0.20151	4.04E-06	1.51E-05	515	515
ANO4	-0.20146	4.06E-06	1.52E-05	515	472
EXOG	-0.20144	4.07E-06	1.52E-05	515	515
PTPRJ	-0.20143	4.08E-06	1.52E-05	515	515
ALAD	-0.20138	4.10E-06	1.53E-05	515	515
MLXIPL	-0.20129	4.14E-06	1.54E-05	515	513
OR2A9P	-0.20128	4.15E-06	1.55E-05	515	515
GPHA2	-0.20128	4.15E-06	1.55E-05	515	344
AXL	-0.20127	4.15E-06	1.55E-05	515	515
C21orf63	-0.20124	4.16E-06	1.55E-05	515	515
LHB	-0.20122	4.18E-06	1.55E-05	515	446

OSGEP	-0.20111	4.23E-06	1.57E-05	515	515
AOAH	-0.2011	4.23E-06	1.57E-05	515	515
DUSP8	-0.20107	4.24E-06	1.58E-05	515	515
KALRN	-0.20107	4.25E-06	1.58E-05	515	515
FAM195B	-0.20107	4.25E-06	1.58E-05	515	515
TXNDC11	-0.20102	4.27E-06	1.59E-05	515	515
C5AR1	-0.20102	4.27E-06	1.59E-05	515	515
BCAS4	-0.20099	4.28E-06	1.59E-05	515	515
ZNF429	-0.2009	4.33E-06	1.61E-05	515	515
LOC10013	-0.2009	4.33E-06	1.61E-05	515	513
ZNF764	-0.20086	4.35E-06	1.61E-05	515	515
ECSCR	-0.20084	4.36E-06	1.62E-05	515	515
ZNF263	-0.20083	4.36E-06	1.62E-05	515	515
FAM153A	-0.20082	4.37E-06	1.62E-05	515	472
ZNF219	-0.20073	4.41E-06	1.63E-05	515	515
PRKCDBP	-0.20061	4.47E-06	1.66E-05	515	515
MTVR2	-0.20059	4.48E-06	1.66E-05	515	237
SV2B	-0.20057	4.49E-06	1.66E-05	515	514
TSPAN3	-0.20055	4.50E-06	1.66E-05	515	515
LCN6	-0.20048	4.53E-06	1.68E-05	515	201
GPR150	-0.20048	4.54E-06	1.68E-05	515	354
CLEC2D	-0.20037	4.59E-06	1.70E-05	515	515
APOE	-0.20037	4.59E-06	1.70E-05	515	515
PDE6B	-0.20032	4.62E-06	1.70E-05	515	515
SCPEP1	-0.20032	4.62E-06	1.71E-05	515	515
C10orf26	-0.20029	4.63E-06	1.71E-05	515	515
LRRC43	-0.20029	4.63E-06	1.71E-05	515	513
KCTD17	-0.20025	4.65E-06	1.72E-05	515	515
ZBTB1	-0.20024	4.66E-06	1.72E-05	515	515
ANKH	-0.20022	4.67E-06	1.72E-05	515	515
RSPO4	-0.20018	4.69E-06	1.73E-05	515	507
GPC4	-0.20013	4.72E-06	1.74E-05	515	515
GAL3ST4	-0.20012	4.72E-06	1.74E-05	515	515
MOAP1	-0.20012	4.72E-06	1.74E-05	515	515
MGAM	-0.20011	4.73E-06	1.74E-05	515	504
ZNF117	-0.20009	4.74E-06	1.74E-05	515	515
ZGPAT	-0.20008	4.74E-06	1.75E-05	515	515
SLC7A6	-0.20006	4.75E-06	1.75E-05	515	515
ERAS	-0.20004	4.76E-06	1.75E-05	515	411
P2RY14	-0.20004	4.77E-06	1.75E-05	515	515
