

Table S1 (related to supplementary figure S4b) - WGCNA analysis of HNSCC tumours					
Gene	Lymphocyte Co-stimulation ME cor		Lymphocyte Co-stimulation ME cor (p value)		
IKZF1	0.97518711	3.34E-21			
SASH3	0.973957702	6.85E-21			
DOCK2	0.972650692	1.42E-20			
DOCK8	0.971038203	3.31E-20			
ITGAL	0.969009072	9.01E-20			
BIN2	0.968557375	1.12E-19			
IL2RG	0.966962039	2.32E-19			
EVI2B	0.963568341	9.83E-19			
CD5	0.962609961	1.44E-18			
CD48	0.961986042	1.84E-18			
CD3E	0.961491552	2.23E-18			
FAM78A	0.961260312	2.43E-18			
PTPRC	0.959701123	4.35E-18			
NCKAP1L	0.957067551	1.11E-17			
SPN	0.955691829	1.76E-17			
P2RY10	0.955428671	1.92E-17			
GVINP1	0.954638075	2.48E-17			
ANKRD44	0.954014971	3.03E-17			
ARHGAP15	0.953667802	3.39E-17			
CD53	0.953597867	3.46E-17			
PPP1R16B	0.952398643	5.04E-17			
AKNA	0.951470637	6.69E-17			
PRKCB	0.951312354	7.02E-17			
NLRC3	0.94957246	1.17E-16			
CD37	0.948418688	1.64E-16			
WDFY4	0.9465449	2.76E-16			
BTK	0.943144011	6.80E-16			
CD247	0.942882667	7.28E-16			
GAB3	0.942765358	7.50E-16			
IL10RA	0.942493558	8.03E-16			
LPXN	0.942215523	8.62E-16			
CLEC2D	0.942212197	8.63E-16			
ARHGAP9	0.942097175	8.88E-16			
CD3D	0.9416916	9.84E-16			
PARP15	0.940711888	1.25E-15			
KIAA0748	0.940355956	1.37E-15			
MAP4K1	0.940201815	1.42E-15			
PIK3CG	0.939037829	1.88E-15			
ITK	0.937240256	2.88E-15			
CD2	0.936443713	3.46E-15			
INPP5D	0.935868162	3.94E-15			
CD52	0.935808038	4.00E-15			
IL16	0.93369535	6.41E-15			
ARHGAP25	0.932208377	8.84E-15			
ARHGAP30	0.931545249	1.02E-14			
RASSF2	0.930441888	1.29E-14			
SIT1	0.929971005	1.42E-14			
ARHGEF6	0.929023337	1.72E-14			
LAT2	0.928900444	1.77E-14			

SLAMF6	0.928862898	1.78E-14		
ZAP70	0.927888551	2.17E-14		
CD96	0.927333444	2.43E-14		
LOC100505	0.926842094	2.67E-14		
CCR5	0.926699681	2.75E-14		
ARHGDIB	0.926288106	2.98E-14		
CD28	0.924960667	3.86E-14		
UBASH3A	0.924910245	3.90E-14		
TLR10	0.92436226	4.34E-14		
SLA2	0.923663879	4.95E-14		
GRAP2	0.923449898	5.16E-14		
SP140	0.92296529	5.65E-14		
LAPTM5	0.922518037	6.14E-14		
PLCB2	0.922459437	6.21E-14		
IRF8	0.922158697	6.57E-14		
SNX20	0.922034645	6.72E-14		
ZC3H12D	0.920242948	9.34E-14		
LOC100233	0.917553363	1.51E-13		
HLA-DRA	0.917406349	1.55E-13		
SLAMF1	0.91610824	1.94E-13		
CDC42SE2	0.916045236	1.96E-13		
SCML4	0.915398281	2.19E-13		
ZNF831	0.915222504	2.25E-13		
PTPN7	0.914864254	2.40E-13		
SELPLG	0.914296267	2.64E-13		
BTLA	0.913854964	2.84E-13		
CD84	0.913660568	2.93E-13		
LOC100130	0.912735866	3.42E-13		
GMFG	0.912379119	3.63E-13		
APBB1IP	0.911594472	4.12E-13		
JAK3	0.911274792	4.34E-13		
LINC00426	0.910723957	4.75E-13		
RCSD1	0.910380763	5.02E-13		
VAV1	0.910358787	5.04E-13		
CXCR4	0.910321874	5.07E-13		
WAS	0.909436875	5.84E-13		
WIPF1	0.908197647	7.09E-13		
PLA2G2D	0.907998574	7.32E-13		
CD180	0.90768808	7.68E-13		
RASAL3	0.906357166	9.43E-13		
SAMD3	0.905814741	1.03E-12		
CARD8	0.90477463	1.20E-12		
SPOCK2	0.904676438	1.22E-12		
BANK1	0.904088679	1.33E-12		
CTSS	0.903854973	1.38E-12		
TMC8	0.903572204	1.44E-12		
SKAP1	0.902247849	1.75E-12		
FCRL3	0.901644122	1.91E-12		
TRAT1	0.901558654	1.93E-12		
ATM	0.901498182	1.95E-12		
KLRG1	0.900914195	2.12E-12		
CYTIP	0.900846103	2.14E-12		

CST7	0.90084275	2.14E-12		
GPR174	0.899439146	2.62E-12		
SPATA13	0.898673025	2.92E-12		
SIRPG	0.897825922	3.29E-12		
MPEG1	0.897137216	3.62E-12		
CCR6	0.897030715	3.68E-12		
UCP2	0.896698772	3.85E-12		
CD4	0.896682218	3.86E-12		
SH2D1A	0.896195053	4.13E-12		
THEMIS	0.895809751	4.35E-12		
LOC100506	0.895735991	4.40E-12		
LY9	0.895519961	4.53E-12		
GIMAP7	0.894464314	5.23E-12		
CELF2	0.894208387	5.41E-12		
HLA-DMB	0.894142041	5.46E-12		
CD6	0.893963614	5.59E-12		
NAPSB	0.893933254	5.61E-12		
FGD2	0.893610258	5.86E-12		
HLA-DPB1	0.892886517	6.46E-12		
PYHIN1	0.892724572	6.60E-12		
RHOH	0.891315879	7.95E-12		
CIITA	0.890937444	8.35E-12		
EVI2A	0.890274044	9.10E-12		
ATP8A1	0.890180327	9.22E-12		
KLHL6	0.8900683	9.35E-12		
PREX1	0.88966565	9.85E-12		
CD3G	0.888270264	1.18E-11		
STAP1	0.887216061	1.35E-11		
ABI3	0.887182794	1.35E-11		
CD22	0.886082272	1.55E-11		
LGALS2	0.885306468	1.71E-11		
CD8A	0.885179244	1.74E-11		
HLA-DOA	0.885113436	1.75E-11		
FCRL1	0.884637396	1.86E-11		
DOCK10	0.884173028	1.97E-11		
GPSM3	0.882947074	2.28E-11		
GIMAP4	0.882791865	2.33E-11		
MYO1F	0.88149796	2.72E-11		
LOC115110	0.880912654	2.91E-11		
GZMK	0.88063254	3.01E-11		
CECR1	0.880000376	3.25E-11		
FMNL1	0.878904661	3.69E-11		
FAIM3	0.878900812	3.69E-11		
EOMES	0.878616957	3.82E-11		
ITGB2	0.877475934	4.36E-11		
IL12RB1	0.877250335	4.48E-11		
CORO1A	0.877091958	4.56E-11		
AOAH	0.875278704	5.61E-11		
HLA-DPA1	0.874564585	6.08E-11		
CYBB	0.87326344	7.03E-11		
ST8SIA4	0.871974631	8.11E-11		
CLECL1	0.871713289	8.35E-11		

ACAP1	0.871478273	8.56E-11		
GPR18	0.87127947	8.75E-11		
CRTAM	0.870597216	9.43E-11		
HCLS1	0.869661932	1.04E-10		
FGL2	0.869254558	1.09E-10		
TIGIT	0.86887744	1.14E-10		
PTPRJ	0.868337119	1.20E-10		
FLI1	0.868209707	1.22E-10		
HSH2D	0.867583818	1.30E-10		
CXorf21	0.866754351	1.42E-10		
LSP1	0.866206314	1.51E-10		
DOK2	0.865913821	1.56E-10		
CXCR6	0.865787566	1.58E-10		
CXCR3	0.865640263	1.60E-10		
GIMAP2	0.865215348	1.67E-10		
GIMAP1	0.86446795	1.81E-10		
C11orf21	0.86437053	1.83E-10		
EVL	0.864141224	1.87E-10		
KCNAB2	0.862633503	2.19E-10		
TARP	0.861981909	2.34E-10		
GPRIN3	0.861703227	2.40E-10		
TNFRSF14	0.861311984	2.50E-10		
CD226	0.860935888	2.60E-10		
TNFRSF1B	0.859453422	3.01E-10		
IPCEF1	0.859223534	3.08E-10		
PTPN22	0.859163109	3.10E-10		
CNOT6L	0.85851359	3.31E-10		
FNBP1	0.858349801	3.36E-10		
CD72	0.85816885	3.42E-10		
PLCL2	0.857974986	3.49E-10		
SLAMF7	0.857876768	3.52E-10		
IL21R	0.857706655	3.58E-10		
PPM1M	0.856392131	4.07E-10		
MIAT	0.856141042	4.17E-10		
TAGAP	0.856133788	4.18E-10		
PARVG	0.855848338	4.30E-10		
MS4A1	0.855394519	4.49E-10		
SELL	0.853958813	5.15E-10		
TRPV2	0.853649815	5.31E-10		
NCF4	0.853481294	5.39E-10		
BLK	0.853212162	5.53E-10		
FYB	0.85296855	5.66E-10		
C16orf54	0.852416933	5.97E-10		
ABCD2	0.852389508	5.98E-10		
FAM65B	0.851826762	6.31E-10		
GIMAP6	0.851821446	6.31E-10		
KLRB1	0.851719479	6.37E-10		
TRAF3IP3	0.851167719	6.71E-10		
IKZF3	0.850388957	7.22E-10		
RASGRP2	0.850301739	7.28E-10		
NKG7	0.849513369	7.83E-10		
KCNA3	0.849240502	8.03E-10		

SLA	0.848522675	8.58E-10		
TSPAN32	0.848257586	8.79E-10		
GPR171	0.847607959	9.33E-10		
JAKMIP1	0.84688772	9.97E-10		
FERMT3	0.846805671	1.00E-09		
CEP85L	0.84635544	1.05E-09		
BATF	0.845820251	1.10E-09		
HCST	0.845061006	1.18E-09		
LRMP	0.845025161	1.18E-09		
IL2RB	0.844802064	1.20E-09		
RASGRP3	0.84458974	1.23E-09		
GPR183	0.843632122	1.34E-09		
TBX21	0.843574209	1.34E-09		
RAB39B	0.842616156	1.46E-09		
LCP2	0.842489511	1.48E-09		
RNF125	0.842378849	1.49E-09		
HLA-DMA	0.842259507	1.51E-09		
SETDB2	0.840999343	1.68E-09		
HLA-DRB6	0.840388537	1.78E-09		
SFMBT2	0.840048779	1.83E-09		
TBC1D10C	0.83952059	1.91E-09		
FCRL6	0.839326938	1.95E-09		
BCL2	0.839272179	1.96E-09		
TMEM156	0.83920323	1.97E-09		
FLT3	0.838582279	2.08E-09		
LTA	0.838517207	2.09E-09		
CYTH4	0.837383467	2.30E-09		
ADAMDEC1	0.836352851	2.51E-09		
NCF1C	0.83452486	2.93E-09		
PDCD1	0.834175886	3.01E-09		
FYN	0.834111571	3.03E-09		
CXCR5	0.833109024	3.29E-09		
AMICA1	0.832927492	3.34E-09		
CD74	0.832732244	3.40E-09		
HVCN1	0.831995303	3.61E-09		
CD40LG	0.831649871	3.71E-09		
TLR7	0.828982786	4.61E-09		
CCL5	0.828578879	4.77E-09		
ARHGEF3	0.828404991	4.83E-09		
FUCA1	0.828402674	4.83E-09		
LILRB1	0.82789579	5.03E-09		
N4BP2L1	0.826558861	5.60E-09		
CCR4	0.826518801	5.62E-09		
LOC285972	0.826459967	5.64E-09		
FAM129C	0.826379004	5.68E-09		
MYO1G	0.824659993	6.51E-09		
PARP8	0.82464406	6.51E-09		
HLA-DOB	0.824183688	6.75E-09		
EPB41	0.823194529	7.29E-09		
PIP4K2A	0.821078149	8.59E-09		
SCIMP	0.821068389	8.59E-09		
GPR65	0.820934938	8.68E-09		

KCNJ10	0.819534999	9.66E-09		
VAMP1	0.819308931	9.83E-09		
CCR7	0.816826888	1.19E-08		
FGR	0.813716636	1.49E-08		
CYSLTR1	0.813671268	1.50E-08		
P2RY13	0.813124796	1.56E-08		
C1orf38	0.812643992	1.61E-08		
GMIP	0.811766622	1.72E-08		
C5orf20	0.811457482	1.76E-08		
TNFSF8	0.810108292	1.94E-08		
LOC100506	0.809376642	2.04E-08		
PTPRCAP	0.809310901	2.05E-08		
ENTPD1	0.809295595	2.06E-08		
TBC1D4	0.809137236	2.08E-08		
DDX26B	0.808831325	2.12E-08		
ITGB7	0.808227444	2.22E-08		
STK17B	0.808219559	2.22E-08		
RNF38	0.807916166	2.27E-08		
SYNE1	0.806561174	2.49E-08		
SPI1	0.806436249	2.52E-08		
UBD	0.805551655	2.68E-08		
NFAM1	0.804824376	2.82E-08		
LGALS9	0.804415381	2.90E-08		
TRAF1	0.804163727	2.95E-08		
RAB37	0.804069774	2.97E-08		
ALOX5	0.803354241	3.12E-08		
ZMAT1	0.802470895	3.32E-08		
TIFAB	0.802366986	3.34E-08		
CCR2	0.801880427	3.45E-08		
CYTH1	0.800861817	3.70E-08		
MCART6	0.799361608	4.10E-08		
C5orf41	0.798797673	4.26E-08		
TRAF5	0.798083638	4.47E-08		
PLEKHO1	0.797333771	4.70E-08		
LST1	0.796902919	4.83E-08		
CLNK	0.796658771	4.91E-08		
PLCG2	0.796215945	5.06E-08		
CD69	0.795688758	5.24E-08		
PIK3R5	0.795484491	5.31E-08		
DNAJC5B	0.795453116	5.32E-08		
SLC40A1	0.795393963	5.34E-08		
HMHA1	0.795026045	5.47E-08		
PLA1A	0.795009045	5.48E-08		
ALOX5AP	0.794878544	5.53E-08		
AFF3	0.794213186	5.78E-08		
TMSB4X	0.793768493	5.95E-08		
LOC286442	0.792618857	6.41E-08		
ITGA4	0.79166329	6.82E-08		
FCRL2	0.791015671	7.11E-08		
CTLA4	0.790795563	7.21E-08		
TNFRSF13B	0.790564017	7.32E-08		
FCER2	0.790395286	7.40E-08		

COL4A3	0.788835239	8.18E-08		
CMKLR1	0.788209393	8.51E-08		
ZNF671	0.787822933	8.72E-08		
STAT5A	0.787335872	9.00E-08		
CD19	0.786632839	9.41E-08		
LCK	0.786259035	9.63E-08		
CXorf65	0.786013721	9.78E-08		
CSF2RB	0.783514033	1.14E-07		
NAAA	0.783284769	1.16E-07		
SAMSN1	0.782303811	1.23E-07		
SRGN	0.781479126	1.30E-07		
FOXP3	0.779242026	1.49E-07		
SLAMF8	0.779173431	1.49E-07		
PRF1	0.778001315	1.60E-07		
NCR1	0.776718344	1.73E-07		
CD200R1	0.775407863	1.87E-07		
STK4	0.775385691	1.87E-07		
IQGAP2	0.772890917	2.17E-07		
OGT	0.772698639	2.20E-07		
CCL19	0.772199697	2.26E-07		
JAK2	0.772162871	2.27E-07		
PCF11	0.772016958	2.29E-07		
CD1C	0.771872814	2.30E-07		
TLR1	0.771517393	2.35E-07		
DENND2D	0.770922084	2.44E-07		
BTN2A2	0.768819223	2.75E-07		
SYTL3	0.768564177	2.79E-07		
PIK3AP1	0.768266204	2.84E-07		
SEMA4D	0.767437307	2.98E-07		
UBA7	0.767079908	3.04E-07		
CD8B	0.766257991	3.19E-07		
STAMBPL1	0.765712606	3.29E-07		
LPIN2	0.765174437	3.39E-07		
TCF7	0.765059211	3.41E-07		
PAX5	0.764524466	3.51E-07		
LCP1	0.763251473	3.77E-07		
RLTPR	0.762465488	3.94E-07		
ICOS	0.761457995	4.17E-07		
CXCL13	0.761435603	4.18E-07		
ZNF540	0.761360631	4.19E-07		
CYFIP2	0.761296362	4.21E-07		
LYZ	0.760627407	4.37E-07		
TTC24	0.760139813	4.49E-07		
APOBEC3H	0.760117259	4.49E-07		
ENPP2	0.759937243	4.54E-07		
ANKRD12	0.759887093	4.55E-07		
LOC283663	0.758754359	4.84E-07		
CLEC17A	0.757930606	5.07E-07		
SYT11	0.757841165	5.09E-07		
TSPYL2	0.757399019	5.22E-07		
BTN3A1	0.757226789	5.26E-07		
PSTPIP1	0.757220549	5.27E-07		

STAT4	0.757041121	5.32E-07		
HSF5	0.75632214	5.53E-07		
CNR2	0.756018141	5.62E-07		
ETS1	0.755956262	5.64E-07		
APOBEC3G	0.755303603	5.84E-07		
LTB	0.754259571	6.18E-07		
FCRLA	0.754186091	6.20E-07		
KIF21B	0.753398361	6.47E-07		
ZBP1	0.752722691	6.71E-07		
ATXN7	0.752404391	6.82E-07		
SLC9A9	0.752286826	6.87E-07		
TXNIP	0.751912428	7.01E-07		
DOK3	0.75156446	7.14E-07		
PTPN6	0.750637081	7.50E-07		
RNASET2	0.750430631	7.58E-07		
KLRF1	0.750344391	7.61E-07		
ZNF80	0.749720142	7.87E-07		
NAIP	0.749175638	8.09E-07		
ZNF101	0.7491113	8.12E-07		
GZMH	0.74878162	8.26E-07		
FAM177B	0.748598879	8.34E-07		
ANKRD55	0.748529963	8.37E-07		
LILRA4	0.748056577	8.58E-07		
TRANK1	0.745121749	9.99E-07		
LBH	0.745088135	1.00E-06		
PPM1K	0.744622153	1.03E-06		
FCRL4	0.744080171	1.05E-06		
GZMA	0.743450534	1.09E-06		
LCN10	0.742861701	1.12E-06		
DPEP2	0.742673478	1.13E-06		
RBM6	0.742534867	1.14E-06		
ITPR1	0.742518625	1.14E-06		
C8orf80	0.742425002	1.15E-06		
OR52N4	0.742171122	1.16E-06		
PLD4	0.741260217	1.22E-06		
SMAP2	0.740492669	1.26E-06		
ELMO1	0.739487508	1.33E-06		
PTGER4	0.739320745	1.34E-06		
KIAA0226L	0.738981256	1.36E-06		
VPS13C	0.737458575	1.47E-06		
LEF1	0.737244704	1.49E-06		
LAT	0.737044923	1.50E-06		
KLRC4	0.736787975	1.52E-06		
FBP1	0.736781528	1.52E-06		
SIGLEC8	0.736149837	1.57E-06		
ZNF253	0.735978707	1.58E-06		
DENND1C	0.735334685	1.64E-06		
FAM49A	0.734788277	1.68E-06		
NCR3	0.734758087	1.68E-06		
PLEKHO2	0.733580947	1.78E-06		
HLA-DQB2	0.733548791	1.79E-06		
CLIC2	0.732725933	1.86E-06		



SLC14A1	0.732391564	1.89E-06		
PTGDS	0.73070469	2.05E-06		
PIK3CD	0.729923642	2.13E-06		
HCK	0.72867306	2.26E-06		
TTC16	0.728386209	2.29E-06		
LIMD2	0.728045957	2.33E-06		
ZNF737	0.727548714	2.38E-06		
GBP2	0.726921761	2.46E-06		
FAM111A	0.726408942	2.52E-06		
CLIC5	0.726395637	2.52E-06		
ITM2A	0.726019486	2.56E-06		
PIK3IP1	0.725185625	2.67E-06		
CD7	0.723225696	2.92E-06		
GAPT	0.723103034	2.94E-06		
NUB1	0.722678494	3.00E-06		
EML4	0.721788042	3.13E-06		
ARHGAP4	0.721681298	3.14E-06		
RBPJ	0.72020604	3.36E-06		
TP53INP1	0.720084611	3.38E-06		
P2RX7	0.719709711	3.44E-06		
IGSF6	0.718242248	3.68E-06		
IL21	0.71823311	3.68E-06		
RFTN1	0.717997601	3.72E-06		
FCHSD2	0.717470288	3.81E-06		
IFNAR2	0.717103443	3.88E-06		
FASLG	0.715246294	4.22E-06		
LOC100506	0.714580253	4.35E-06		
CYLD	0.7116994	4.95E-06		
FAM26F	0.711673003	4.95E-06		
ARRB2	0.709538379	5.44E-06		
LAG3	0.709291289	5.50E-06		
C9orf95	0.708956095	5.58E-06		
CD1E	0.707440186	5.97E-06		
CMAHP	0.706159028	6.31E-06		
IRF1	0.705691976	6.44E-06		
CCDC88C	0.705407769	6.52E-06		
FRZB	0.705261616	6.56E-06		
HLA-DQA1	0.703266029	7.15E-06		
KCNA2	0.70315307	7.19E-06		
FCGR2B	0.702996535	7.24E-06		
IFNG	0.702877648	7.27E-06		
SATB1	0.702359608	7.44E-06		
RGS1	0.701567585	7.69E-06		
RASSF5	0.701427234	7.74E-06		
CREBZF	0.700859298	7.93E-06		
IDO2	0.700507841	8.05E-06		
CHIT1	0.699748316	8.31E-06		
GFI1	0.698154582	8.89E-06		
B3GAT1	0.697623299	9.09E-06		
F5	0.696982694	9.34E-06		
RAB27A	0.696422644	9.56E-06		
ABCB1	0.695761573	9.83E-06		

DAPK1	0.695204356	1.01E-05		
C12orf35	0.694900653	1.02E-05		
POU2F2	0.694740522	1.03E-05		
ZNF154	0.694561263	1.03E-05		
ST3GAL5	0.69448061	1.04E-05		
P2RY14	0.69445289	1.04E-05		
MAP3K14	0.693798661	1.07E-05		
GPR114	0.693311928	1.09E-05		
EMB	0.693085963	1.10E-05		
NR1H3	0.691954496	1.15E-05		
CCRL2	0.691279546	1.18E-05		
SLC12A3	0.691083802	1.19E-05		
CLEC10A	0.690418454	1.23E-05		
ITGAX	0.689783821	1.26E-05		
DNAH8	0.689643817	1.26E-05		
CD300LF	0.689398181	1.28E-05		
CXCR2P1	0.689170023	1.29E-05		
TRIM38	0.688743865	1.31E-05		
DNASE2B	0.68843605	1.33E-05		
SIDT1	0.687809742	1.36E-05		
CD163L1	0.6873126	1.39E-05		
CTC1	0.687003161	1.41E-05		
PTPN18	0.686604342	1.43E-05		
P2RX5	0.686135916	1.46E-05		
BEND4	0.685958591	1.47E-05		
CNR1	0.685856873	1.47E-05		
MBNL1	0.68562883	1.49E-05		
FGD3	0.685209013	1.51E-05		
VOPP1	0.685104566	1.52E-05		
CCDC141	0.684209334	1.57E-05		
TBC1D9	0.683918899	1.59E-05		
SULT1C2	0.68335369	1.63E-05		
CTSW	0.682522786	1.68E-05		
UTRN	0.682478193	1.69E-05		
MAN2B1	0.682444069	1.69E-05		
ARID5A	0.681785016	1.73E-05		
IL27RA	0.681127699	1.78E-05		
CLEC9A	0.680861874	1.80E-05		
SLC6A6	0.680528438	1.82E-05		
CUX2	0.680499191	1.82E-05		
KLRD1	0.680431733	1.83E-05		
CD97	0.680379326	1.83E-05		
CBLN3	0.679967808	1.86E-05		
NCF1	0.679277057	1.91E-05		
FAM107B	0.679159727	1.92E-05		
ARRDC2	0.678790712	1.95E-05		
HLA-DQA2	0.678580089	1.97E-05		
FCAMR	0.678136906	2.00E-05		
ZNF208	0.677802639	2.03E-05		
MIR155HG	0.677586727	2.04E-05		
IL22RA2	0.677496761	2.05E-05		
GYPC	0.676937931	2.10E-05		

PLA2G7	0.672033977	2.53E-05		
GNG2	0.671282517	2.60E-05		
TXK	0.670440725	2.69E-05		
S100B	0.670411107	2.69E-05		
GZMB	0.670331187	2.70E-05		
IGFLR1	0.669508294	2.79E-05		
RUNX3	0.669388583	2.80E-05		
MCOLN2	0.667364196	3.02E-05		
MICAL1	0.666191937	3.15E-05		
GSTK1	0.665268085	3.26E-05		
WDFY1	0.664453398	3.36E-05		
LOC374443	0.663910395	3.43E-05		
CFP	0.663874153	3.44E-05		
STK10	0.66321945	3.52E-05		
MDFIC	0.661914575	3.69E-05		
SLAIN1	0.661480733	3.75E-05		
COTL1	0.660885595	3.84E-05		
HLA-DRB1	0.660627973	3.87E-05		
BTN3A2	0.66000617	3.96E-05		
MAN2A2	0.659595097	4.02E-05		
RUFY4	0.656542465	4.49E-05		
FAM53B	0.655977887	4.58E-05		
CARD11	0.655737028	4.62E-05		
LOC100131	0.655619458	4.64E-05		
TCL1A	0.655208602	4.71E-05		
PATL2	0.653904687	4.93E-05		
MFNG	0.652295999	5.22E-05		
EIF4E3	0.652052521	5.27E-05		
PLEK	0.651407486	5.39E-05		
RAB8B	0.650096081	5.65E-05		
PRKACB	0.649702305	5.72E-05		
AICDA	0.648253187	6.02E-05		
FMNL3	0.647495236	6.18E-05		
DTHD1	0.646917629	6.31E-05		
CD244	0.646296991	6.45E-05		
KLF2	0.646168208	6.47E-05		
C7orf29	0.64565901	6.59E-05		
GPR55	0.644783201	6.79E-05		
BHLHE41	0.643612996	7.07E-05		
TM7SF4	0.641010484	7.73E-05		
SLC2A5	0.640794587	7.78E-05		
PLA2G4C	0.640353188	7.90E-05		
DBH	0.640303049	7.92E-05		
LOC401431	0.639999399	8.00E-05		
TOX	0.639897776	8.03E-05		
MYO9B	0.637852762	8.60E-05		
ZNF347	0.637652237	8.66E-05		
DEF6	0.637508691	8.70E-05		
CD40	0.637323247	8.75E-05		
GPAT2	0.636207113	9.09E-05		
RBL2	0.6360855	9.12E-05		
MBP	0.635107329	9.43E-05		

BCL2L14	0.634459622	9.63E-05		
METTL7A	0.634268141	9.69E-05		
TSPAN33	0.632820239	0.000101689		
FCHO1	0.632323583	0.00010337		
LY96	0.632303974	0.000103437		
CCDC69	0.630842366	0.000108532		
RGS10	0.6298072	0.000112275		
RAPGEF1	0.629415272	0.000113722		
RASSF3	0.628843266	0.000115864		
APOBEC3D	0.628306634	0.000117906		
TRIM14	0.62778083	0.000119938		
TMEM123	0.627758767	0.000120024		
NUP210	0.625361182	0.000129698		
LY75	0.624713874	0.000132426		
KAT2B	0.624007788	0.000135461		
BHLHE22	0.622505292	0.000142126		
MIR5047	0.622259517	0.000143243		
CDH17	0.62140865	0.000147173		
CTSC	0.62115627	0.000148357		
RGS16	0.620798585	0.00015005		
RNF213	0.620753433	0.000150265		
LINC00494	0.619269518	0.000157482		
RARRES3	0.619143093	0.000158111		
SIGLEC6	0.617851491	0.000164666		
ZNF683	0.617769244	0.000165091		
HTRA4	0.615513983	0.000177147		
TLR9	0.614635565	0.000182051		
KLHL9	0.614058135	0.000185341		
ZFP36L2	0.614039508	0.000185448		
ZNF43	0.613866249	0.000186445		
DENND5B	0.613348157	0.000189457		
HLA-DQB1	0.613077827	0.000191046		
SH3KBP1	0.611782606	0.000198824		
NPL	0.611106729	0.000202994		
APOC1	0.610527933	0.000206627		
COL6A4P2	0.61036694	0.000207647		
RAC2	0.610198138	0.000208722		
ITGAM	0.609465468	0.000213446		
C1orf228	0.60898922	0.000216567		
IL18BP	0.606418693	0.000234124		
CASP8	0.606414667	0.000234153		
SEPP1	0.605483794	0.000240817		
IL4I1	0.605004529	0.000244313		
GPR155	0.603882945	0.000252673		
CCR8	0.603473051	0.000255791		
CCL4	0.602803501	0.000260958		
LOC100131	0.600156645	0.000282302		
TRIB2	0.599837191	0.000284981		
GNAI2	0.598845365	0.00029344		
TACC1	0.598760542	0.000294174		
ZNF90	0.598161009	0.000299407		
AHSA2	0.597005783	0.000309723		

PRCP	0.596946824	0.000310258			
RGS13	0.595657739	0.000322158			
SYK	0.594692198	0.000331336			
IL12B	0.592039386	0.000357756			
ZNF835	0.591234341	0.000366135			
BCORP1	0.591234232	0.000366136			
SECTM1	0.587846705	0.000403329			
IL11RA	0.586251593	0.000421973			
ST8SIA1	0.585853722	0.000426741			
TNFSF4	0.585812174	0.000427242			
KIAA2026	0.58575989	0.000427872			
NCF1B	0.585373493	0.000432559			
MEP1A	0.584036974	0.000449122			
HTR2B	0.582283806	0.000471698			
NFE2L3	0.580831908	0.000491148			
CD80	0.580291376	0.000498569			
TMEM163	0.579866479	0.000504471			
MMP19	0.579663255	0.000507316			
TLN1	0.579518604	0.000509349			
LOC284215	0.578681483	0.000521259			
MYO7A	0.577589087	0.000537171			
HLA-DRB5	0.576866307	0.000547933			
KLF12	0.576552227	0.000552669			
KIAA1432	0.575098374	0.000575065			
UNQ6494	0.574418089	0.000585816			
MATK	0.57437389	0.000586521			
CPPED1	0.574251727	0.000588472			
PDE3B	0.574054599	0.000591634			
LOC440896	0.573965461	0.000593068			
ENTHD1	0.573698829	0.000597377			
CR1	0.573584596	0.000599231			
KMO	0.572887803	0.000610653			
LOC100124	0.572276889	0.000620824			
LOC253039	0.569420777	0.000670387			
CLEC6A	0.567816985	0.00069972			
LYN	0.565870974	0.000736825			
SLCO5A1	0.565586967	0.000742383			
C17orf62	0.564180184	0.00077046			
GNLY	0.562529821	0.000804586			
CD38	0.562241924	0.000810674			
ITGAE	0.561879051	0.000818404			
CD274	0.56078375	0.000842133			
SLCO2A1	0.560314434	0.000852483			
ENTPD4	0.560076065	0.000857784			
GOLGA8B	0.559624905	0.000867894			
ERMN	0.558631063	0.000890537			
DENND3	0.557337845	0.000920776			
CASS4	0.556551571	0.0009396			
RGS5	0.556510969	0.000940581			
NXF1	0.553786958	0.001008495			
TDRD6	0.553148013	0.001025035			
CHI3L1	0.55310442	0.001026172			

IRF5	0.552719739	0.001036254			
NCALD	0.552297789	0.001047412			
MIR142	0.551879765	0.001058571			
PITPNC1	0.55121626	0.001076496			
TNS3	0.550889433	0.001085423			
LOC100272	0.549875817	0.001113523			
KLRC2	0.548985391	0.001138732			
ATP6V0D2	0.544541604	0.001272165			
LOC100505	0.543809843	0.001295402			
CR1L	0.542375125	0.001342041			
TIMD4	0.541333476	0.001376816			
KIR3DL2	0.541097866	0.00138479			
TPK1	0.540090476	0.001419342			
ZNF160	0.539654211	0.001434537			
PSD4	0.537201073	0.001522659			
KIRREL3	0.537162349	0.001524087			
STAT5B	0.536961691	0.001531506			
ZNF708	0.53629949	0.001556213			
RFPL1-AS1	0.535845584	0.00157335			
ZNF569	0.534478639	0.001625955			
RASGRP1	0.534432321	0.001627764			
PNMA3	0.53300411	0.001684414			
C1QTNF4	0.532822252	0.00169175			
LINC00173	0.532412924	0.001708362			
ZBTB44	0.532136942	0.001719643			
TMEM173	0.531034467	0.001765358			
ZNF266	0.530501241	0.001787847			
AMPD1	0.52987832	0.001814434			
TMEM155	0.529852897	0.001815526			
SAT1	0.528711895	0.001865145			
XCL2	0.527820928	0.001904708			
WSCD1	0.527657577	0.001912041			
ACP5	0.526439983	0.001967473			
FMO3	0.525198876	0.00202541			
ADAM19	0.524870826	0.00204097			
MOXD1	0.523347564	0.002114591			
VPREB3	0.522013291	0.002180963			
LONRF1	0.521079398	0.00222849			
CP	0.520804455	0.002242652			
NEFH	0.520768394	0.002244515			
TMC6	0.520755039	0.002245206			
CYP4F24P	0.51935678	0.002318519			
TNFAIP8	0.51914792	0.002329647			
CASP1	0.517969522	0.002393302			
IL18RAP	0.517071813	0.002442802			
CD1A	0.51676978	0.002459655			
ZNF493	0.515873391	0.002510267			
ADCY5	0.515732025	0.002518331			
KCNIP1	0.513679361	0.002637976			
CCND2	0.512221486	0.002725915			
BMF	0.511938976	0.002743247			
FAS	0.510796529	0.002814312			

EGR2	0.510793224	0.00281452			
MLLT3	0.509409181	0.00290275			
PRKCH	0.508478696	0.002963404			
MAP3K1	0.507264209	0.003044217			
XCR1	0.507162018	0.003051103			
ZNF829	0.50689747	0.003068992			
B3GALT2	0.506500696	0.003095992			
PSMB10	0.504898834	0.003207096			
KCNH8	0.504703889	0.00322085			
ATHL1	0.504632391	0.003225907			
IL33	0.504355828	0.003245532			
CNKS2	0.503629843	0.003297542			
PDE4B	0.503275268	0.003323205			
CLEC4C	0.503218915	0.003327299			
LSAMP	0.502928523	0.003348467			
AKAP5	0.502063155	0.003412238			
ZNF345	0.501201774	0.003476755			
KCNJ5	0.50119068	0.003477592			
DENND4C	0.500903195	0.003499362			
GATA3	0.500087803	0.003561749			
CMTM6	0.499819245	0.003582505			
CX3CL1	0.498626211	0.00367598			
PLEKHA2	0.498442478	0.00369056			
AK3	0.497845101	0.003738312			
CAMK4	0.494491315	0.004016411			
ZBTB32	0.493130849	0.004134197			
LPIN1	0.492599981	0.004180958			
CCL22	0.492222774	0.00421446			
ZNF267	0.490356554	0.004383628			
CCL21	0.489079971	0.00450268			
MYD88	0.487892774	0.004615879			
CD1B	0.486529385	0.004748884			
CX3CR1	0.486393406	0.004762328			
SNX29P2	0.486365095	0.004765131			
ACSL6	0.484074616	0.004996661			
DAZL	0.48242749	0.005169063			
SAMD10	0.482128117	0.005200939			
AASS	0.481690287	0.005247861			
SUCLG2	0.481305384	0.005289409			
KCNIP2	0.477172102	0.005753636			
JUND	0.47479526	0.006036044			
MAP3K8	0.47316159	0.006236945			
KBTBD8	0.473152575	0.00623807			
PTK2B	0.473045648	0.006251418			
CLEC1A	0.473004581	0.006256551			
WNT5B	0.472854968	0.006275282			
LOC399715	0.472262064	0.006349982			
PPP1R18	0.471784142	0.006410747			
DNASE1L3	0.468389464	0.006856811			
APOBEC3C	0.467221235	0.007016311			
BCL11A	0.466672185	0.007092359			
FMO1	0.464580837	0.007388488			

KIAA0040	0.462979773	0.007622243			
NLRP1	0.462171837	0.00774257			
PRKX	0.461948947	0.007776047			
HCG11	0.461292403	0.007875375			
IKBKB	0.460165215	0.00804842			
FRMD4A	0.459914102	0.008087407			
STX11	0.45883627	0.008256575			
HS3ST2	0.458435465	0.008320244			
ZBTB5	0.457510638	0.008468746			
ERAP2	0.456805515	0.008583474			
ZNF83	0.456294646	0.008667416			
ITPKB	0.453630401	0.009116552			
CCL2	0.453085171	0.009210854			
FAM150B	0.452254383	0.009356133			
MMP9	0.451750416	0.009445203			
LRRK2	0.451669804	0.009459516			
GPNMB	0.450594576	0.009652195			
LPAR6	0.450370225	0.009692814			
ZNF91	0.445516422	0.010607643			
APOBEC3F	0.442448079	0.011222714			
SUCNR1	0.442393792	0.011233861			
KLF6	0.441449427	0.011429268			
SERPINB9	0.439861521	0.011764287			
ZNF93	0.439169212	0.011912916			
SLC4A7	0.438144172	0.012135876			
TNFAIP3	0.435183501	0.012799649			
ZNF589	0.43511157	0.012816147			
IL7	0.433275861	0.013243272			
CHRNA6	0.429865248	0.014068551			
PLAA	0.428881108	0.014314538			
VNN2	0.428160177	0.01449701			
KLRC3	0.427273511	0.014724094			
PPAPDC2	0.426436775	0.014941111			
CCL17	0.426204734	0.015001764			
CLTA	0.425571511	0.015168331			
ZNF813	0.424831065	0.015365059			
CXCL16	0.420582974	0.016535346			
GBA2	0.420037799	0.016690771			
ARGLU1	0.419128476	0.016952719			
MBNL3	0.418572148	0.01711466			
C21orf91	0.417462634	0.017441474			
GTSF1	0.416683165	0.017674162			
FCGBP	0.416632918	0.017689249			
REC8	0.41150715	0.019285659			
SCN3A	0.411124678	0.019409417			
NFX1	0.410715133	0.019542664			
RASGEF1B	0.410524071	0.019605086			
ZMIZ2	0.409800644	0.019842935			
NPHS1	0.406477656	0.02096638			
RANBP6	0.406044596	0.021116587			
PDZRN4	0.403320194	0.022082077			
NOS2	0.401565604	0.022722947			



PAG1	0.400001873	0.023306951			
NR4A3	0.39998135	0.023314697			
PLEKHG7	0.399529215	0.023485887			
TMSB4Y	0.398151365	0.024013968			
MEOX1	0.397529263	0.024255578			
LOC283070	0.397529231	0.024255559			
ALDH2	0.395471723	0.025068955			
ZNF254	0.394847509	0.025320099			
C9orf82	0.393543312	0.025851492			
SLC4A10	0.393438098	0.025894758			
SOX8	0.393236833	0.025977685			
ZNF738	0.39313372	0.026020256			
FAM216B	0.39266821	0.026213154			
ECHDC3	0.391740986	0.026600872			
GNA13	0.391541151	0.026685044			
NFKBIE	0.389370768	0.027613373			
CLEC4M	0.387390423	0.028483311			
MOB3A	0.38678991	0.02875149			
SIGLEC12	0.385207142	0.029468219			
GPR160	0.384559317	0.029765749			
TREML2	0.384082259	0.029986413			
NEAT1	0.382433464	0.030759359			
LOC283174	0.381202717	0.031346841			
UTS2	0.380590365	0.031642524			
CCKAR	0.379534839	0.032157522			
NCOA7	0.378450073	0.032693866			
GLUL	0.375613928	0.034130557			
MMP25	0.375407125	0.034237286			
SLC2A3	0.373073083	0.035460736			
SLC1A4	0.373068381	0.035463236			
ALPK2	0.371096364	0.036524345			
PTAFR	0.365366197	0.039753997			
AGPAT3	0.36419346	0.040442493			
LINC00487	0.363218339	0.041022246			
ZNF880	0.363197307	0.041034824			
SELE	0.36306346	0.04111494			
NRCAM	0.362835066	0.041251939			
MYCBP2	0.360583427	0.042622287			
MALAT1	0.359349797	0.043388416			
KIAA1797	0.358369576	0.044005005			
MALT1	0.357633852	0.044472392			
SH2D1B	0.356336704	0.045306111			
INSIG1	0.350291396	0.049357894			
USP6	0.347197663	0.051540194			
ZNF14	0.346529567	0.052021373			
KIAA0922	0.346029107	0.052384146			
CYP7B1	0.344235783	0.053700598			
DDX43	0.342257924	0.055182759			
DIAPH2	0.337862706	0.058592248			
CLEC7A	0.336582763	0.059615716			
CLEC4F	0.336560086	0.059633975			
SIGLEC5	0.335458012	0.060526657			

IDS	0.331030229	0.064219535			
SLC46A2	0.330629976	0.064561864			
SH2D2A	0.330327476	0.064821534			
IFNGR2	0.329028025	0.065946306			
ZNF585B	0.327677172	0.067131689			
KLRC1	0.325633838	0.06895627			
CHRNA7	0.323563243	0.070844392			
IGSF9B	0.318867982	0.075274807			
ABCA5	0.31845297	0.0756765			
ADAM23	0.311789643	0.082355825			
SERPINA9	0.311768097	0.082378135			
SRY	0.310663633	0.083527975			
IL1R2	0.306347785	0.088139723			
PTGES	0.306038355	0.088477702			
C9orf46	0.305239491	0.089354852			
ZNF600	0.305201603	0.089396618			
SNHG5	0.302450706	0.092469083			
CDKN2B	0.301401457	0.093661944			
IL6R	0.301092173	0.094015786			
PM20D1	0.299540367	0.095806526			
LOC100505	-0.302872341	0.091993011			
TM4SF1	-0.303749359	0.09100875			
LPHN3	-0.304655744	0.089999994			
MOCOS	-0.305830013	0.088705823			
TBX5	-0.306182324	0.088320327			
HEY2	-0.306517054	0.087955256			
TMEM61	-0.309055703	0.085223962			
MEX3A	-0.309121771	0.08515376			
ALDH1A3	-0.309546736	0.084703261			
FLJ22184	-0.309709855	0.084530827			
KRT81	-0.311862257	0.082280672			
DPY19L2P1	-0.312510594	0.081612003			
MAGEA12	-0.314116502	0.079973746			
SRD5A2	-0.314701721	0.079383082			
SAGE1	-0.317660331	0.076448313			
APOB	-0.317814799	0.076297428			
RBM46	-0.317862914	0.076250476			
ZSCAN4	-0.318136072	0.075984345			
ZDHHC11	-0.320645225	0.073573248			
CT45A5	-0.321236695	0.073013633			
PHF21B	-0.3214515	0.072811218			
NET1	-0.323694019	0.070723964			
ALX1	-0.324404364	0.070072604			
FTHL17	-0.324567018	0.069924115			
ACTL8	-0.326086347	0.06854891			
CXorf61	-0.326110947	0.068526819			
LOC100499	-0.326378502	0.068286903			
PCDHB14	-0.327639912	0.067164619			
POTEF	-0.328941025	0.066022152			
RAB6B	-0.329340962	0.065674051			
STOX1	-0.330172695	0.064954715			
H1FO	-0.330178252	0.06494993			

MID1	-0.330319599	0.064828306			
RSPO4	-0.330550856	0.064629703			
PLD1	-0.330702831	0.064499447			
PLA2R1	-0.330877235	0.064350221			
LOC100506	-0.335462809	0.060522749			
IRX5	-0.335985385	0.060098182			
CASKIN1	-0.336209407	0.059916894			
CRISPLD1	-0.33776148	0.058672683			
NCOR1P1	-0.338340941	0.058213415			
SAMD15	-0.339096262	0.057619023			
MT1G	-0.339631316	0.057200871			
HYDIN	-0.339785621	0.057080727			
TMEM44	-0.340241229	0.056727142			
IL13RA2	-0.340992567	0.056147829			
KRT77	-0.342374951	0.05509417			
CUX1	-0.342397714	0.055076952			
LOC100130	-0.342627178	0.05490362			
NBEAP1	-0.343233913	0.054447384			
PPP1R3G	-0.344451228	0.053541072			
TBX3	-0.345112323	0.053053908			
C14orf132	-0.345629996	0.05267489			
HAPLN1	-0.345834385	0.052525838			
NKX2-5	-0.347505136	0.051319935			
CCDC164	-0.348682018	0.050483771			
TYRP1	-0.349038098	0.050232925			
PROK2	-0.349843419	0.049669259			
NLGN1	-0.352167885	0.048070486			
ALX4	-0.353971655	0.046858339			
LINGO2	-0.354785056	0.04631977			
CTAG2	-0.356659902	0.045097221			
LOC100652	-0.358177677	0.044126533			
PRTFDC1	-0.358847601	0.043703442			
NYAP1	-0.359353486	0.043386109			
TFPI2	-0.360989744	0.042372339			
PLEKHH1	-0.361618744	0.041987727			
MLXIPL	-0.364191889	0.040443422			
CAPSL	-0.365916002	0.03943448			
TP53I3	-0.366233942	0.039250656			
IGF2BP1	-0.367669596	0.038429179			
BEGAIN	-0.368594011	0.037907608			
FGG	-0.368859882	0.037758662			
C5orf46	-0.368862162	0.037757387			
SMAD3	-0.36985097	0.03720759			
STXBP5L	-0.371479346	0.036316286			
CABYR	-0.37363216	0.035164507			
MYT1	-0.37419916	0.034866128			
FKBP4	-0.375981688	0.033941424			
TMEM30B	-0.378928482	0.032456436			
SH3PXD2B	-0.379098302	0.032372494			
TRHDE	-0.379797167	0.032028898			
PLAT	-0.380533102	0.031670289			
TPPP	-0.381169897	0.031362632			

GPR180	-0.381616382	0.031148373			
LOC400643	-0.382689441	0.030638306			
C4orf51	-0.383232724	0.030382668			
AKR1C3	-0.384255057	0.029906332			
GPR98	-0.384673751	0.029713015			
BVES-AS1	-0.384738755	0.029683093			
PRKAA2	-0.385048611	0.029540803			
CACHD1	-0.385741912	0.029224445			
CYP2B7P1	-0.386864256	0.028718177			
CNTNAP3	-0.388917792	0.027810416			
PRB3	-0.389385505	0.027606981			
WIF1	-0.391380212	0.026752993			
CNTNAP3B	-0.391650433	0.026638986			
LOC170425	-0.392373221	0.026335998			
RBP4	-0.3931236	0.026024437			
DPPA2	-0.394035677	0.025649814			
FBXO2	-0.396640336	0.024604281			
LOC100131	-0.39688782	0.024506788			
LRRC16A	-0.397354015	0.024323999			
BCYRN1	-0.398851241	0.023744523			
SCUBE3	-0.399581888	0.02346589			
PCDHB2	-0.399726403	0.023411099			
ETS2	-0.401158431	0.022873839			
CCDC127	-0.402402621	0.022415338			
GPR176	-0.402447979	0.022398767			
MAGEB2	-0.403077917	0.022169672			
ZNF385B	-0.403118045	0.022155144			
PAX7	-0.403444751	0.022037155			
LPP	-0.403465507	0.022029677			
RNF121	-0.404628988	0.02161381			
MAFA	-0.404922026	0.021510096			
GABRR1	-0.407388501	0.020653333			
ZIC4	-0.407850915	0.020495893			
BANF1	-0.408284859	0.02034905			
PDLIM4	-0.409432079	0.019965028			
SCN2A	-0.410064385	0.019755947			
PPIC	-0.411039433	0.01943709			
WDR16	-0.412368185	0.019009443			
KIAA1598	-0.412691034	0.018906724			
TMCO3	-0.413815463	0.018552557			
STIP1	-0.414705515	0.018276134			
DNAJA4	-0.415203512	0.018122969			
PFN2	-0.41608837	0.017853451			
CNGA1	-0.417180084	0.017525525			
DOCK1	-0.418770326	0.017056826			
MUC13	-0.419154339	0.016945222			
FAM131A	-0.419874687	0.016737509			
TSPAN15	-0.419897519	0.01673096			
ROR2	-0.419995545	0.016702868			
TTPA	-0.420260315	0.016627187			
EPB49	-0.420854617	0.016458353			
ABCB6	-0.421095596	0.016390303			

B4GALNT4	-0.421443339	0.016292516			
PHF2P1	-0.421683304	0.01622532			
HOXA7	-0.422613783	0.015966947			
PCYT1B	-0.422660889	0.015953959			
RHPN2	-0.422671901	0.015950924			
SH3PXD2A	-0.422985402	0.01586472			
LOC283392	-0.423547953	0.01571101			
VEPH1	-0.424432919	0.015471719			
CYP4F11	-0.425429454	0.01520591			
PRDM13	-0.427584488	0.014644114			
DUSP5P	-0.427638924	0.014630151			
CRLF1	-0.427717114	0.014610114			
HTR2C	-0.42817837	0.014492382			
ST5	-0.430316542	0.013956939			
RYK	-0.430409891	0.013933945			
ALS2CR11	-0.43194358	0.013560682			
KCNIP3	-0.43197598	0.013552888			
IGHMBP2	-0.43205536	0.013533808			
COL28A1	-0.432255571	0.013485786			
FLJ43879	-0.432306756	0.013473531			
PCSK1	-0.432748744	0.013368102			
FAM43B	-0.433504796	0.013189361			
KIAA1549	-0.434585556	0.012937339			
HOXB5	-0.43628436	0.012549367			
PKHD1	-0.436380271	0.012527758			
ZIC1	-0.436512176	0.01249809			
LOX	-0.438009035	0.01216553			
SCD	-0.441402721	0.011439007			
SLC26A10	-0.441882932	0.011339215			
PTPLB	-0.442086737	0.011297085			
CHST6	-0.442264054	0.011260538			
FZD10	-0.442877332	0.011134901			
CYP39A1	-0.443257104	0.011057694			
AKR1C2	-0.443663821	0.01097551			
LOC100129	-0.443785483	0.010951027			
GUCY1B2	-0.443864915	0.010935066			
ATP9A	-0.444172477	0.010873453			
AHRR	-0.444465676	0.010814989			
MICAL3	-0.444757385	0.010757086			
SYT14	-0.444836491	0.010741429			
BMPR1B	-0.447864947	0.010156299			
MSI1	-0.447954098	0.01013949			
GALNT1	-0.44817068	0.010098753			
HOXA-AS5	-0.448476573	0.010041454			
PLOD1	-0.450536645	0.009662669			
TNNI3	-0.451909262	0.009417052			
MAP3K4	-0.452067708	0.009389042			
GGH	-0.452640679	0.009288343			
HOXC5	-0.452974171	0.009230153			
FGF12	-0.453080785	0.009211616			
SPEG	-0.453413416	0.009153983			
GNPNAT1	-0.453449615	0.009147729			

TBC1D23	-0.454175204	0.009023141			
DGCR5	-0.454343402	0.008994466			
GREB1L	-0.454605368	0.008949959			
HECW1	-0.456844774	0.008577052			
SEMA3A	-0.457119686	0.008532194			
GPR50	-0.457348671	0.008494983			
SYT13	-0.457398501	0.008486904			
QRFPR	-0.457454765	0.008477789			
EFCAB1	-0.458582198	0.008296887			
CEBPB	-0.459468852	0.00815693			
PTPN14	-0.460417579	0.008009399			
NOS1	-0.460981231	0.007922827			
CAGE1	-0.461266526	0.007879312			
PCDHB6	-0.461728013	0.007809353			
CHP2	-0.462354774	0.007715184			
PTP4A1	-0.4627078	0.00766257			
DNAH2	-0.462899353	0.007634149			
LOC440910	-0.464267627	0.00743373			
PPP1R3B	-0.464314752	0.007426908			
ITGB5	-0.464825915	0.00735325			
ZFHX4	-0.465475667	0.007260519			
TREML3	-0.46621717	0.007155912			
RAP1GAP2	-0.468976755	0.006777801			
PCDHB13	-0.469531642	0.006703865			
HOXD-AS1	-0.469901907	0.006654912			
OR2A7	-0.470444022	0.006583789			
SNX7	-0.470650773	0.006556835			
SEC14L4	-0.471271189	0.006476518			
DNAH5	-0.472018139	0.006380934			
POU6F2	-0.473032168	0.006253102			
LOC646903	-0.473725725	0.006166935			
CDK2AP1	-0.473897272	0.006145779			
C19orf51	-0.47398786	0.006134632			
ANK3	-0.474456156	0.006077284			
LRP4	-0.475827834	0.005911935			
ANXA3	-0.47777931	0.005683329			
CDC42BPA	-0.479069253	0.005536406			
KY	-0.47995125	0.005437829			
SLC10A4	-0.480029978	0.005429104			
SALL4	-0.480415435	0.005386556			
GNG4	-0.480743125	0.005350609			
FABP12	-0.481121578	0.005309349			
PYY2	-0.481163948	0.005304747			
BARX2	-0.482353261	0.005176951			
ELFN2	-0.482482823	0.00516319			
STEAP3	-0.482877592	0.005121453			
WNT3	-0.483316527	0.005075387			
ALDH4A1	-0.483698505	0.005035588			
PTPRN	-0.484284848	0.004975016			
RNF112	-0.484731911	0.004929253			
RXRA	-0.486863891	0.00471595			
ZNF503	-0.48701568	0.004701071			

GALE	-0.488220929	0.004584347			
C3orf72	-0.488237605	0.00458275			
LIN28B	-0.488252156	0.004581357			
DBN1	-0.488962593	0.004513765			
SLCO3A1	-0.489889772	0.004426842			
GLI3	-0.490004274	0.004416207			
HOXB7	-0.490675345	0.004354324			
WASF3	-0.491169276	0.004309253			
PSORS1C1	-0.492662057	0.004175467			
ADRA2C	-0.493180804	0.00412982			
BCAM	-0.493760943	0.00407928			
GSTO2	-0.493768102	0.00407866			
DLX6-AS1	-0.494193296	0.004041962			
SLC16A9	-0.497941864	0.003730542			
GATA4	-0.498314125	0.003700776			
GRM5	-0.498640163	0.003674874			
TLN2	-0.499005544	0.003646033			
TRAM1L1	-0.499248392	0.003626973			
C12orf68	-0.499416635	0.003613818			
ADCY1	-0.50026197	0.003548343			
FIBCD1	-0.500770873	0.003509422			
B3GNT5	-0.500958117	0.003495194			
TMEM237	-0.501434974	0.003459185			
IGSF11	-0.501599403	0.003446843			
SOX11	-0.502165073	0.003404674			
NGB	-0.502333061	0.003392237			
IBSP	-0.502496069	0.003380206			
FAM210A	-0.50295834	0.003346288			
LMLN	-0.504096113	0.003264056			
CRNDE	-0.504262959	0.003252146			
AGRN	-0.504731268	0.003218915			
SLC8A2	-0.504849291	0.003210587			
HMGCS1	-0.505901583	0.00313715			
ITGB4	-0.506727197	0.003080554			
MAGEA4	-0.507232425	0.003046357			
NPM2	-0.50732358	0.003040223			
EDIL3	-0.507553151	0.00302482			
CCDC87	-0.507707113	0.003014528			
NES	-0.5086601	0.002951494			
PDIA5	-0.509159991	0.002918887			
CD55	-0.509461166	0.002899394			
ANKRD18A	-0.510203272	0.00285184			
TOP1MT	-0.512107379	0.002732904			
TREM1	-0.512154725	0.002730002			
TOM1L1	-0.512730626	0.002694919			
NKX6-1	-0.512944694	0.002681979			
SLC6A10P	-0.514458393	0.002592			
FABP4	-0.514581048	0.002584825			
ANGPTL4	-0.518075907	0.002387494			
RNF152	-0.518595074	0.002359325			
LOC729513	-0.519146041	0.002329747			
C3orf52	-0.51916711	0.002328623			

FLJ45445	-0.5191899	0.002327407			
CMTM4	-0.519412824	0.002315541			
HOXD-AS2	-0.520920079	0.002236687			
ACACA	-0.523865933	0.002089282			
ZNF311	-0.525053622	0.002032287			
DNM1	-0.525417146	0.002015115			
TMEM132A	-0.525692823	0.002002176			
PHKA1	-0.526795365	0.001951151			
PLEKHA5	-0.526839011	0.001949155			
LAPTM4B	-0.527786314	0.00190626			
SEC61G	-0.529007256	0.001852189			
PLEKHG4B	-0.529906676	0.001813216			
HCG4	-0.529989875	0.001809647			
DSG2	-0.530819987	0.001774374			
RASL10B	-0.531024777	0.001765765			
C3orf55	-0.531101616	0.001762544			
HOXB6	-0.531233378	0.001757033			
TMEM9	-0.531616093	0.001741111			
MRPL21	-0.531756603	0.001735296			
DNER	-0.533372603	0.001669636			
FZD6	-0.53373001	0.00165541			
PXN	-0.533885988	0.001649235			
SORCS2	-0.534236724	0.001635423			
DYRK3	-0.535748366	0.001577041			
RNASE10	-0.535887709	0.001571752			
CBX2	-0.535989156	0.001567912			
RAB17	-0.536193785	0.00156019			
TRIO	-0.536959804	0.001531576			
SP8	-0.537673773	0.00150532			
ZDHHC9	-0.538603749	0.001471711			
OSMR	-0.541112272	0.001384301			
TBC1D8B	-0.54164029	0.001366492			
SLC35G1	-0.541778065	0.001361878			
OR2W3	-0.541937212	0.001356565			
SULT4A1	-0.542410266	0.001340881			
GDF6	-0.542503771	0.0013378			
FGFR4	-0.543991484	0.0012896			
KC6	-0.544781897	0.001264615			
ACVR1	-0.54577364	0.001233866			
FOXA2	-0.545881788	0.001230553			
CCND1	-0.545923604	0.001229274			
ENTPD2	-0.547823419	0.001172381			
ELOVL6	-0.548502193	0.001152621			
CHRNA5	-0.549830364	0.001114798			
HOXA10	-0.549839078	0.001114554			
SLC6A17	-0.551139755	0.00107858			
CELSR1	-0.551291083	0.001074461			
UNC5B	-0.551740172	0.00106232			
MSL3P1	-0.551847626	0.001059433			
C5orf38	-0.554008502	0.001002815			
S100A6	-0.555060018	0.000976238			
CCT5	-0.555139551	0.000974253			



PTPRU	-0.556301519	0.000945656			
SDC4	-0.556364906	0.000944118			
STC2	-0.557368149	0.000920058			
TGM4	-0.558951962	0.00088317			
OLFM2	-0.559102443	0.000879734			
BMP1	-0.559947778	0.000860648			
FAT2	-0.560080839	0.000857677			
TMEM189	-0.560219384	0.000854593			
MAGEF1	-0.560397453	0.000850644			
KIAA1804	-0.561427135	0.000828122			
CCDC38	-0.562004218	0.00081573			
GPRC5A	-0.562086182	0.000813984			
NDST1	-0.562857926	0.000797698			
EIF5AL1	-0.563294136	0.00078862			
MTRF1	-0.563326909	0.000787942			
TXNRD3	-0.565760224	0.000738988			
HOTAIR	-0.568546712	0.000686236			
ADSSL1	-0.56863481	0.000684624			
MCC	-0.569310883	0.000672362			
TUBBP5	-0.569370946	0.000671282			
HOXD9	-0.570297148	0.000654821			
KCP	-0.570846807	0.000645221			
ANXA2P3	-0.572306569	0.000620327			
ARAP3	-0.573579543	0.000599313			
ID1	-0.573672218	0.000597808			
PON2	-0.574811921	0.000579571			
ROS1	-0.574903806	0.000578122			
NEK5	-0.574910101	0.000578023			
FAM83F	-0.57528977	0.000572071			
UCN2	-0.575297179	0.000571956			
GALNS	-0.575932498	0.00056212			
EFNB3	-0.57593358	0.000562103			
EGF	-0.576633284	0.000551444			
NUMBL	-0.576691462	0.000550565			
TNFSF9	-0.576883717	0.000547672			
FKBP9	-0.579072588	0.000515665			
FABP5P3	-0.580003999	0.000502554			
GPR125	-0.580602334	0.000494288			
MCOLN3	-0.580777677	0.000491889			
GRB14	-0.581240909	0.000485599			
PCDHB11	-0.582124487	0.000473799			
PANX2	-0.582539907	0.000468339			
MAP7	-0.5841656	0.000447504			
HOXC8	-0.585770287	0.000427747			
ARL4D	-0.585784425	0.000427576			
TTC40	-0.586360798	0.000420673			
PFKFB4	-0.586914798	0.000414131			
B4GALNT1	-0.588448642	0.000396486			
HOXA11	-0.593045216	0.000347527			
AIG1	-0.593164748	0.000346328			
MTSS1L	-0.593493978	0.000343047			
SYT5	-0.593592371	0.000342072			

TCF15	-0.594549103	0.000332716		
EXT1	-0.59626579	0.000316495		
MAGEA10	-0.598096735	0.000299972		
CMAS	-0.598902139	0.00029295		
PDE8A	-0.599130923	0.000290982		
CHRM3	-0.600129565	0.000282529		
BBS5	-0.600186079	0.000282057		
IGF1R	-0.60049925	0.000279455		
PGF	-0.60141635	0.000271958		
C1QL1	-0.601543857	0.00027093		
HOXC10	-0.601747168	0.000269298		
LOC100506	-0.601772132	0.000269098		
MFAP2	-0.602861408	0.000260507		
MAGEA11	-0.603740997	0.000253749		
SYT8	-0.60403486	0.000251526		
NEFM	-0.606766334	0.000231678		
HOMER2	-0.608491088	0.000219875		
RNF128	-0.608527948	0.000219628		
KDELC1	-0.611026269	0.000203496		
CLDN12	-0.611280804	0.000201913		
XXYL1	-0.612126388	0.000196733		
FAT1	-0.613438093	0.000188931		
LOC388152	-0.613462453	0.000188789		
PLEKHG3	-0.614235062	0.000184327		
SALL1	-0.615040047	0.000179778		
LOC375295	-0.616147961	0.000173681		
RGS17	-0.618748825	0.000160087		
EYA4	-0.618755516	0.000160053		
METTL21A	-0.619674892	0.00015548		
LOC439990	-0.619864413	0.000154552		
KCNG1	-0.621551437	0.000146507		
H2AFY2	-0.622830528	0.000140659		
PTK7	-0.623790063	0.000136409		
GLO1	-0.625177092	0.000130469		
SNCB	-0.625956211	0.000127234		
APCDD1L	-0.627999037	0.000119091		
CKAP4	-0.629449643	0.000113595		
ANKRD50	-0.629811373	0.00011226		
CDX2	-0.630039861	0.000111424		
C3orf67	-0.630135641	0.000111075		
ANKRD18B	-0.630145994	0.000111038		
LOC654342	-0.630797735	0.000108691		
FLJ23867	-0.631140944	0.000107473		
EHD2	-0.633543951	9.93E-05		
NXPH4	-0.634438595	9.64E-05		
CHST3	-0.634641736	9.57E-05		
MN1	-0.635000134	9.46E-05		
PC	-0.63715178	8.80E-05		
LOC157381	-0.637265368	8.77E-05		
LOC442132	-0.637503883	8.70E-05		
RNF182	-0.637512347	8.70E-05		
ORAOV1	-0.639040408	8.26E-05		

LINC00346	-0.639528289	8.13E-05		
RTKN	-0.641928078	7.49E-05		
NANOS1	-0.642150735	7.43E-05		
ZFP42	-0.644141181	6.94E-05		
CLTCL1	-0.644483384	6.86E-05		
SEMA3C	-0.645449047	6.64E-05		
ZNF365	-0.64561516	6.60E-05		
HOXC11	-0.647039668	6.28E-05		
NDFIP2	-0.649845252	5.70E-05		
TACC2	-0.649936905	5.68E-05		
CYP51A1	-0.653931223	4.93E-05		
CDS1	-0.654540993	4.82E-05		
PDGFA	-0.65481415	4.78E-05		
GPC1	-0.655273615	4.70E-05		
MUM1L1	-0.656008438	4.58E-05		
THSD4	-0.656933261	4.43E-05		
DHCR7	-0.656960648	4.42E-05		
EPHB4	-0.657071211	4.40E-05		
USH1C	-0.657956783	4.27E-05		
MIR4653	-0.659207382	4.08E-05		
PLXNB3	-0.661492434	3.75E-05		
PPYR1	-0.662353389	3.63E-05		
C19orf21	-0.662603868	3.60E-05		
LRP11	-0.667738061	2.98E-05		
GALNT2	-0.668717136	2.87E-05		
TMEM105	-0.668877463	2.85E-05		
ANXA8L2	-0.670791404	2.65E-05		
C3orf26	-0.671528218	2.58E-05		
EGFR	-0.672901121	2.45E-05		
OLFML2A	-0.673313037	2.41E-05		
RBP1	-0.673811422	2.36E-05		
VCL	-0.675371279	2.23E-05		
ASAP2	-0.676496458	2.13E-05		
REEP3	-0.676970084	2.09E-05		
EFNA1	-0.680290311	1.84E-05		
SOX7	-0.681142036	1.78E-05		
DOK4	-0.687714613	1.37E-05		
FADD	-0.690595416	1.22E-05		
NRG4	-0.690900754	1.20E-05		
GRAMD2	-0.691033185	1.20E-05		
WNT7B	-0.693729228	1.07E-05		
EFNB2	-0.696795654	9.41E-06		
TSPAN9	-0.697327799	9.21E-06		
CCDC113	-0.701683975	7.65E-06		
SYT7	-0.703725672	7.01E-06		
DKK1	-0.704465635	6.79E-06		
C1orf74	-0.70919679	5.52E-06		
PPFIA1	-0.710833111	5.14E-06		
NGFRAP1	-0.712307844	4.81E-06		
LCLAT1	-0.712439184	4.78E-06		
DUSP9	-0.715216013	4.22E-06		
PTGFRN	-0.71746033	3.81E-06		

C2orf72	-0.718269378	3.68E-06			
INPP5A	-0.719555521	3.47E-06			
WWC2	-0.720193764	3.37E-06			
FHL2	-0.720918923	3.25E-06			
P4HA2	-0.743615449	1.08E-06			
LMO1	-0.744778186	1.02E-06			
SLC25A13	-0.745696367	9.70E-07			
TMEM92	-0.753953712	6.28E-07			
CTBP2	-0.754453049	6.12E-07			
SHANK2	-0.760291607	4.45E-07			
SYT12	-0.770988116	2.43E-07			
CTTN	-0.775697745	1.84E-07			
NMB	-0.782797849	1.20E-07			