

Table SI. Intersection of downregulated and upregulated differentially expressed genes in high and low immune/stromal score groups.

Gene	Style
ICOS	Down-regulated
IL7R	Down-regulated
CD48	Down-regulated
P2RY13	Down-regulated
CCL17	Down-regulated
HLA-DQA2	Down-regulated
GPR174	Down-regulated
SIT1	Down-regulated
SCGB1A1	Down-regulated
TIGIT	Down-regulated
ZNF831	Down-regulated
MRC1	Down-regulated
SAMD3	Down-regulated
CD2	Down-regulated
APOC2	Down-regulated
KIAA0748	Down-regulated
TNFRSF9	Down-regulated
EMR1	Down-regulated
FCRLA	Down-regulated
CD69	Down-regulated
BTLA	Down-regulated
PDCD1LG2	Down-regulated
HLA-DOA	Down-regulated
PLEK	Down-regulated
CD84	Down-regulated
IL12RB1	Down-regulated
CCR4	Down-regulated
CD3G	Down-regulated
CD3E	Down-regulated
TFEC	Down-regulated
CXCR5	Down-regulated
TLR10	Down-regulated
LILRA4	Down-regulated
CCL18	Down-regulated
CD1B	Down-regulated
STAP1	Down-regulated
CCR2	Down-regulated
CCL13	Down-regulated
FCER2	Down-regulated
EOMES	Down-regulated
CD40LG	Down-regulated

SLAMF1	Down-regulated
IGSF6	Down-regulated
C1QA	Down-regulated
SIGLEC10	Down-regulated
FCN1	Down-regulated
CD5	Down-regulated
PTPRO	Down-regulated
DOCK2	Down-regulated
S100B	Down-regulated
CTLA4	Down-regulated
ABCD2	Down-regulated
CD80	Down-regulated
PTPN22	Down-regulated
ABI3BP	Down-regulated
CTSE	Down-regulated
P2RX7	Down-regulated
TM7SF4	Down-regulated
COL29A1	Down-regulated
SASH3	Down-regulated
TLR7	Down-regulated
SLAMF8	Down-regulated
FOLR2	Down-regulated
CLEC4A	Down-regulated
MS4A6A	Down-regulated
CD37	Down-regulated
LILRB1	Down-regulated
TNFSF13B	Down-regulated
HLA-DQB2	Down-regulated
CD300LF	Down-regulated
TMEM150B	Down-regulated
PSTPIP1	Down-regulated
CD53	Down-regulated
HLA-DMB	Down-regulated
RGS18	Down-regulated
IKZF1	Down-regulated
NCF1B	Down-regulated
CD226	Down-regulated
TNFRSF13B	Down-regulated
C1QC	Down-regulated
CD22	Down-regulated
LST1	Down-regulated
ADH1B	Down-regulated
GPR65	Down-regulated
FUT7	Down-regulated

FYB	Down-regulated
C16orf54	Down-regulated
SAA2	Down-regulated
PIK3AP1	Down-regulated
LCP1	Down-regulated
NFAM1	Down-regulated
IGJ	Down-regulated
PLD4	Down-regulated
IL10RA	Down-regulated
GPR114	Down-regulated
FPR3	Down-regulated
SIGLEC9	Down-regulated
FLT3	Down-regulated
SIGLEC1	Down-regulated
BIN2	Down-regulated
C10orf128	Down-regulated
LCP2	Down-regulated
RASGRP2	Down-regulated
FGD2	Down-regulated
CMKLR1	Down-regulated
COL6A6	Down-regulated
LILRB5	Down-regulated
GAPT	Down-regulated
SLCO2B1	Down-regulated
MS4A4A	Down-regulated
NLRP3	Down-regulated
STAC	Down-regulated
MSR1	Down-regulated
BCL2A1	Down-regulated
SIGLEC7	Down-regulated
IRF4	Down-regulated
SIRPB1	Down-regulated
CD1A	Down-regulated
MPEG1	Down-regulated
CD274	Down-regulated
KLHL6	Down-regulated
LAX1	Down-regulated
ALOX5AP	Down-regulated
MATK	Down-regulated
FPR1	Down-regulated
SIGLEC8	Down-regulated
FOXP3	Down-regulated
CD86	Down-regulated
SLC1A3	Down-regulated

SIGLEC11	Down-regulated
PRAM1	Down-regulated
RCSD1	Down-regulated
HHLA2	Down-regulated
FCGR2C	Down-regulated
KIAA0125	Down-regulated
C1orf162	Down-regulated
CADM3	Down-regulated
CD209	Down-regulated
TNFRSF17	Down-regulated
GPR34	Down-regulated
SIGLEC5	Down-regulated
PIK3R6	Down-regulated
1-Mar	Down-regulated
ANXA8L2	Down-regulated
TIMD4	Down-regulated
DPEP2	Down-regulated
MMP7	Down-regulated
LTF	Down-regulated
CD180	Down-regulated
FCRL5	Down-regulated
CSF2RA	Down-regulated
CLEC4D	Down-regulated
TREM2	Down-regulated
SUCNR1	Down-regulated
FCRL2	Down-regulated
PIK3R5	Down-regulated
C13orf18	Down-regulated
MS4A7	Down-regulated
IL10	Down-regulated
SIGLEC6	Down-regulated
CPVL	Down-regulated
C8orf80	Down-regulated
CEACAM4	Down-regulated
ARHGAP30	Down-regulated
LRRC25	Down-regulated
ALOX5	Down-regulated
MYBPC2	Down-regulated
NLRC4	Down-regulated
CHRDL1	Down-regulated
CLEC7A	Down-regulated
LILRB3	Down-regulated
CXorf21	Down-regulated
CASS4	Down-regulated

RARRES1	Down-regulated
KCNK13	Down-regulated
TRPV2	Down-regulated
HDC	Down-regulated
MEOX1	Down-regulated
ADAMTS8	Down-regulated
GPNMB	Down-regulated
CXCL14	Down-regulated
PTGDR	Down-regulated
MEI1	Down-regulated
ADAM6	Down-regulated
LSP1	Down-regulated
CYSLTR2	Down-regulated
ROS1	Down-regulated
SIRPA	Down-regulated
ITGA4	Down-regulated
CCL21	Down-regulated
C6orf97	Down-regulated
PNOC	Down-regulated
C12orf59	Down-regulated
FAM23A	Down-regulated
P2RY8	Down-regulated
ATP8B4	Down-regulated
HHIP	Down-regulated
IL5RA	Down-regulated
LILRA5	Down-regulated
VCAM1	Down-regulated
GLIPR1	Down-regulated
IKZF3	Down-regulated
P2RX1	Down-regulated
AQP9	Down-regulated
WDFY4	Down-regulated
CLEC5A	Down-regulated
CYSLTR1	Down-regulated
KBTBD8	Down-regulated
C1orf186	Down-regulated
CILP	Down-regulated
BHLHE41	Down-regulated
ADORA3	Down-regulated
PI16	Down-regulated
IVL	Down-regulated
WIPF1	Down-regulated
FAM70A	Down-regulated
DOCK11	Down-regulated

CST6	Down-regulated
C5AR1	Down-regulated
HS3ST3B1	Down-regulated
KRT5	Down-regulated
LOC84740	Down-regulated
EGR2	Down-regulated
MMP3	Down-regulated
FMO1	Down-regulated
NFATC2	Down-regulated
FAM49A	Down-regulated
CRYBB1	Down-regulated
MT1M	Down-regulated
TPSD1	Down-regulated
RSPO1	Down-regulated
DBC1	Down-regulated
IL13RA2	Down-regulated
OGN	Down-regulated
DES	Down-regulated
GPR68	Down-regulated
ADAM19	Down-regulated
CXCL6	Down-regulated
FXYD1	Down-regulated
PTGFR	Down-regulated
TCF21	Down-regulated
GAL3ST4	Down-regulated
SCN2B	Down-regulated
CPNE5	Down-regulated
PLXDC2	Down-regulated
GFRA1	Down-regulated
SCN7A	Down-regulated
SVEP1	Down-regulated
CDH23	Down-regulated
KCNMB1	Down-regulated
DCN	Down-regulated
ITGA8	Down-regulated
TXLNB	Down-regulated
MSC	Down-regulated
EGR3	Down-regulated
TMEM119	Down-regulated
ANGPTL1	Down-regulated
HGF	Down-regulated
KLRB1	Down-regulated
CCR5	Down-regulated
CR1	Down-regulated

SELL	Down-regulated
CCL23	Down-regulated
SLAMF7	Down-regulated
HAVCR2	Down-regulated
CD163	Down-regulated
DHRS9	Down-regulated
PAX5	Down-regulated
SPI1	Down-regulated
CSF1R	Down-regulated
C19orf59	Down-regulated
PLXNC1	Down-regulated
RGS13	Down-regulated
SLC37A2	Down-regulated
PLA2G4C	Down-regulated
CCL14	Down-regulated
CH25H	Down-regulated
KCNE1	Down-regulated
GDF5	Down-regulated
FXYP4	Up-regulated
GLTPD2	Up-regulated
AGXT2L1	Up-regulated
AKR1C2	Up-regulated
GPX2	Up-regulated
PART1	Up-regulated
NPW	Up-regulated
NR0B1	Up-regulated
S100P	Up-regulated
C6orf176	Up-regulated
WDR72	Up-regulated
PAH	Up-regulated
INHA	Up-regulated
INSL4	Up-regulated
CPLX2	Up-regulated
AKR7A3	Up-regulated
FGA	Up-regulated
FGL1	Up-regulated
BARX1	Up-regulated
FGB	Up-regulated

Table SII. Prognostic value of 20 upregulated differentially expressed genes.

Gene name	HR[exp(coef)]	coef	95% CI lower	95% CI upper	Z-score	P-value
INSL4	1.085021	0.0816	0.039467	0.123733	3.79589	0.000147
INHA	1.06374	0.061791	0.013928	0.109653	2.530309	0.011396
C6orf176	1.051684	0.050392	0.008621	0.092163	2.364492	0.018055
CPLX2	1.043541	0.04262	0.005493	0.079747	2.249931	0.024453
FGA	1.03823	0.037517	0.001945	0.073089	2.067128	0.038722
NR0B1	1.043368	0.042454	6.51E-04	0.084258	1.990488	0.046537
FGB	1.026054	0.02572	-0.00369	0.055133	1.713902	0.086547
GPX2	1.033261	0.03272	-0.00508	0.070515	1.696783	0.089738
BARX1	1.033603	0.03305	-0.00592	0.072025	1.662047	0.096503
NPW	1.04006	0.039278	-0.01829	0.096844	1.337311	0.181121
S100P	0.843304	-0.17043	-0.49245	0.151593	-1.0373	0.299596
PART1	0.971223	-0.0292	-0.09206	0.033658	-0.91046	0.362581
AKR7A3	0.977195	-0.02307	-0.07837	0.032235	-0.81756	0.413609
WDR72	1.019621	0.019431	-0.02842	0.067282	0.795898	0.426091
AKR1C2	1.013347	0.013259	-0.02401	0.050528	0.697271	0.485633
PAH	1.014011	0.013913	-0.0377	0.065529	0.528326	0.597273
FGL1	0.995922	-0.00409	-0.04335	0.035176	-0.204	0.838355
AGXT2L1	1.004694	0.004683	-0.05045	0.059815	0.166472	0.867786
GLTPD2	1.003198	0.003193	-0.05569	0.062076	0.106266	0.915371
FXVD4	1.002114	0.002112	-0.04891	0.053134	0.081141	0.93533

HR, hazard ratio; exp (coef), e^{coef} ; coef, coefficient.

Table SIII. Downregulated differentially expressed genes of prognostic value.

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
IL16	0.779579726	-0.249	-0.38076	-0.11724	-3.70397	0.000212
CD200R1	0.795816848	-0.22839	-0.34642	-0.11036	-3.79252	0.000149
TRAF3IP3	0.797751554	-0.22596	-0.34946	-0.10246	-3.58591	0.000336
CCR6	0.804500067	-0.21753	-0.33333	-0.10174	-3.68197	0.000231
CXorf21	0.807299076	-0.21406	-0.33446	-0.09366	-3.48465	0.000493
ARHGAP30	0.808531377	-0.21254	-0.35543	-0.06965	-2.91526	0.003554
ACSM5	0.809813901	-0.21095	-0.31113	-0.11077	-4.12702	0.0000368
P2RX1	0.8104498	-0.21017	-0.31889	-0.10144	-3.78852	0.000152
KLRB1	0.812973844	-0.20706	-0.31455	-0.09957	-3.77545	0.000160
P2RY8	0.815879724	-0.20349	-0.32535	-0.08163	-3.27278	0.001065
ARHGEF6	0.819075696	-0.19958	-0.33708	-0.06207	-2.84476	0.004444
LY9	0.819550905	-0.199	-0.31104	-0.08696	-3.48127	0.000499
CLEC17A	0.819960391	-0.1985	-0.29625	-0.10075	-3.98008	0.0000689
CD40LG	0.820899321	-0.19735	-0.29778	-0.09693	-3.85172	0.000117
CD5	0.821668324	-0.19642	-0.30225	-0.09058	-3.63749	0.000275
CCR2	0.822710416	-0.19515	-0.29811	-0.09219	-3.71479	0.000203
KBTBD8	0.826021973	-0.19113	-0.31944	-0.06283	-2.91968	0.003504
ACAP1	0.826396778	-0.19068	-0.30136	-0.08	-3.37654	0.000734
ITGAL	0.82658123	-0.19046	-0.30861	-0.0723	-3.15933	0.001581
SASH3	0.828356178	-0.18831	-0.31136	-0.06527	-2.9996	0.002703
RCSD1	0.829953364	-0.18639	-0.32502	-0.04775	-2.63503	0.008413
PTGDR	0.831187804	-0.1849	-0.32013	-0.04967	-2.6799	0.007364
P2RY13	0.833042269	-0.18267	-0.28688	-0.07847	-3.43578	0.000591
SLAMF1	0.833076788	-0.18263	-0.29112	-0.07414	-3.29927	0.000969
RASGRP2	0.833763294	-0.18181	-0.28993	-0.07368	-3.29562	0.000982
NLRC4	0.834892311	-0.18045	-0.31281	-0.04809	-2.67207	0.007538
WDFY4	0.83565148	-0.17954	-0.27721	-0.08188	-3.60302	0.000315
DPEP2	0.836173669	-0.17892	-0.28985	-0.06799	-3.16122	0.001571
FGD2	0.836409019	-0.17864	-0.29733	-0.05994	-2.94981	0.00318
STAP1	0.836531904	-0.17849	-0.26878	-0.0882	-3.87445	0.000107
CD52	0.837005689	-0.17792	-0.2915	-0.06435	-3.07036	0.002138
MEI1	0.837062686	-0.17786	-0.28611	-0.0696	-3.22006	0.001282
SNX20	0.837460422	-0.17738	-0.29498	-0.05978	-2.95632	0.003113
IKZF3	0.837776095	-0.177	-0.27619	-0.07781	-3.49754	0.00047
AMICA1	0.837899017	-0.17686	-0.28913	-0.06458	-3.08739	0.002019
CASS4	0.838417088	-0.17624	-0.28433	-0.06815	-3.19566	0.001395
GIMAP8	0.838537549	-0.1761	-0.31771	-0.03448	-2.43722	0.014801
PRKCB	0.838557631	-0.17607	-0.29261	-0.05954	-2.9613	0.003063
HLA-DMB	0.840617389	-0.17362	-0.28177	-0.06547	-3.14633	0.001653
BTK	0.841066989	-0.17308	-0.2797	-0.06647	-3.1819	0.001463
SIGLECP3	0.841596835	-0.17245	-0.27088	-0.07403	-3.43423	0.000594

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
RASSF2	0.842029097	-0.17194	-0.30458	-0.0393	-2.54066	0.011064
KLHL6	0.842492461	-0.17139	-0.2824	-0.06038	-3.02609	0.002477
PTGDS	0.842695347	-0.17115	-0.26164	-0.08066	-3.70686	0.00021
GIMAP6	0.843688412	-0.16997	-0.31263	-0.02731	-2.33516	0.019535
DOCK8	0.844060588	-0.16953	-0.30558	-0.03348	-2.44226	0.014596
HLA-DPB1	0.844112532	-0.16947	-0.26999	-0.06895	-3.30427	0.000952
TLR10	0.844795209	-0.16866	-0.2605	-0.07682	-3.5995	0.000319
ZNF831	0.845066181	-0.16834	-0.27077	-0.06591	-3.22111	0.001277
TAGAP	0.845134133	-0.16826	-0.29101	-0.04551	-2.68654	0.00722
CD226	0.845668348	-0.16763	-0.28583	-0.04943	-2.77951	0.005444
GIMAP1	0.846242525	-0.16695	-0.30884	-0.02506	-2.30614	0.021103
LRMP	0.846346251	-0.16683	-0.26994	-0.06371	-3.17104	0.001519
SPN	0.846482687	-0.16667	-0.279	-0.05433	-2.9078	0.00364
CD2	0.846986379	-0.16607	-0.28235	-0.04979	-2.79919	0.005123
CLECL1	0.847465023	-0.16551	-0.27004	-0.06097	-3.10313	0.001915
ARHGAP15	0.847788128	-0.16512	-0.28323	-0.04702	-2.74022	0.00614
CD37	0.848748034	-0.16399	-0.28071	-0.04727	-2.75381	0.005891
ITGA4	0.84974645	-0.16282	-0.29738	-0.02826	-2.37154	0.017714
CYTIP	0.850325582	-0.16214	-0.28703	-0.03724	-2.54445	0.010945
PTPRC	0.850620091	-0.16179	-0.27297	-0.05061	-2.8522	0.004342
IRF8	0.850790204	-0.16159	-0.27717	-0.04601	-2.74022	0.00614
BTLA	0.851211943	-0.16109	-0.27011	-0.05208	-2.89637	0.003775
ANKRD44	0.85315879	-0.15881	-0.26975	-0.04787	-2.80572	0.00502
LILRA1	0.853208153	-0.15875	-0.279	-0.0385	-2.58745	0.009669
IL10RA	0.853309055	-0.15863	-0.2862	-0.03107	-2.43728	0.014798
PYHIN1	0.853805717	-0.15805	-0.26339	-0.05272	-2.94083	0.003273
SIGLEC11	0.854116463	-0.15769	-0.25976	-0.05562	-3.0279	0.002463
CYSLTR2	0.85470361	-0.157	-0.2758	-0.0382	-2.5902	0.009592
C16orf54	0.855010464	-0.15664	-0.26924	-0.04405	-2.72669	0.006397
C13orf18	0.855349503	-0.15625	-0.26872	-0.04377	-2.72259	0.006477
CD79B	0.855872628	-0.15563	-0.25228	-0.05899	-3.15618	0.001599
SAMD3	0.856699522	-0.15467	-0.26991	-0.03942	-2.63043	0.008528
SIGLEC6	0.85673312	-0.15463	-0.24574	-0.06352	-3.3265	0.000879
BIN2	0.856741587	-0.15462	-0.28357	-0.02567	-2.35015	0.018766
HLA-DRA	0.856817969	-0.15453	-0.25515	-0.05391	-3.00997	0.002613
PSTPIP1	0.857555413	-0.15367	-0.2732	-0.03414	-2.51972	0.011745
FAM49A	0.85869396	-0.15234	-0.27659	-0.0281	-2.40323	0.016251
CD69	0.858855087	-0.15216	-0.25615	-0.04816	-2.86763	0.004136
EVI2B	0.859005076	-0.15198	-0.27501	-0.02895	-2.42114	0.015472
FAM23A	0.859025714	-0.15196	-0.25706	-0.04685	-2.8337	0.004601
GPR65	0.859584155	-0.15131	-0.27538	-0.02723	-2.3901	0.016844
GAPT	0.859851272	-0.151	-0.25419	-0.0478	-2.8679	0.004132

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
ITK	0.860056067	-0.15076	-0.2546	-0.04692	-2.84554	0.004434
CEACAM21	0.860436773	-0.15032	-0.25514	-0.04549	-2.81058	0.004945
PIK3CG	0.861070173	-0.14958	-0.25249	-0.04667	-2.8488	0.004389
CSF2RB	0.861257128	-0.14936	-0.26359	-0.03514	-2.56291	0.01038
GVIN1	0.862116763	-0.14836	-0.25936	-0.03737	-2.61977	0.008799
IKZF1	0.862182283	-0.14829	-0.26977	-0.0268	-2.39241	0.016738
CYTH4	0.862198318	-0.14827	-0.27839	-0.01815	-2.23339	0.025523
CCR7	0.862833202	-0.14753	-0.2489	-0.04617	-2.85263	0.004336
FCRL1	0.863137639	-0.14718	-0.22757	-0.0668	-3.58855	0.000333
LOC100233209	0.863159326	-0.14716	-0.25757	-0.03675	-2.61228	0.008994
LILRA4	0.863565371	-0.14669	-0.23906	-0.05431	-3.11232	0.001856
MPEG1	0.86360501	-0.14664	-0.26441	-0.02887	-2.44047	0.014668
TNFAIP8L2	0.86427532	-0.14586	-0.26506	-0.02667	-2.39843	0.016466
FMO2	0.864961426	-0.14507	-0.23906	-0.05108	-3.02514	0.002485
MS4A7	0.865143885	-0.14486	-0.25983	-0.02989	-2.4696	0.013526
SIT1	0.865219753	-0.14477	-0.25036	-0.03918	-2.68734	0.007202
WAS	0.865231091	-0.14476	-0.27283	-0.01668	-2.21527	0.026742
HPGDS	0.865233638	-0.14476	-0.22646	-0.06305	-3.47238	0.000516
CD28	0.865441366	-0.14452	-0.25773	-0.0313	-2.50186	0.012354
ST8SIA1	0.86563054	-0.1443	-0.25245	-0.03614	-2.61486	0.008926
SCN2B	0.865852851	-0.14404	-0.23273	-0.05535	-3.18316	0.001457
TLR7	0.865917603	-0.14397	-0.24954	-0.03839	-2.67274	0.007523
CD4	0.865918933	-0.14396	-0.27082	-0.0171	-2.22423	0.026133
ATP8B4	0.865930009	-0.14395	-0.26891	-0.019	-2.25794	0.02395
HLA-DPA1	0.866339117	-0.14348	-0.24369	-0.04326	-2.80612	0.005014
RGS13	0.866365345	-0.14345	-0.23821	-0.04869	-2.96703	0.003007
CD300LF	0.866682634	-0.14308	-0.24558	-0.04059	-2.73612	0.006217
CLEC7A	0.866960283	-0.14276	-0.24791	-0.03761	-2.66109	0.007789
C10orf128	0.867398121	-0.14226	-0.24793	-0.03658	-2.63849	0.008328
IRF4	0.867996027	-0.14157	-0.23523	-0.04791	-2.96242	0.003052
CD27	0.868504919	-0.14098	-0.24182	-0.04014	-2.74019	0.00614
GPR174	0.868698042	-0.14076	-0.2462	-0.03532	-2.61648	0.008884
RSPO1	0.868949006	-0.14047	-0.23678	-0.04416	-2.85876	0.004253
C8orf80	0.869154876	-0.14023	-0.23505	-0.04542	-2.89894	0.003744
CLEC10A	0.869222765	-0.14016	-0.22846	-0.05185	-3.11077	0.001866
TNFRSF13B	0.86929283	-0.14008	-0.22449	-0.05566	-3.25214	0.001145
KIAA0748	0.869414419	-0.13994	-0.2407	-0.03918	-2.722	0.006489
LSP1	0.869617303	-0.1397	-0.27062	-0.00878	-2.09142	0.036491
MFAP4	0.869887584	-0.13939	-0.22798	-0.0508	-3.08393	0.002043
SLA	0.870526197	-0.13866	-0.26314	-0.01418	-2.18319	0.029022
HLA-DOA	0.870944067	-0.13818	-0.23401	-0.04235	-2.82605	0.004713
HLA-DRB1	0.871058377	-0.13805	-0.2294	-0.0467	-2.96188	0.003058

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
EGR2	0.871112637	-0.13798	-0.25465	-0.02131	-2.31804	0.020447
CCR4	0.871168933	-0.13792	-0.22595	-0.04989	-3.07061	0.002136
C1orf186	0.872112057	-0.13684	-0.23055	-0.04313	-2.86205	0.004209
DNAJC5B	0.873295021	-0.13548	-0.23188	-0.03908	-2.75453	0.005878
CD53	0.873409969	-0.13535	-0.2582	-0.0125	-2.15935	0.030823
GPR114	0.873413129	-0.13535	-0.23857	-0.03212	-2.56988	0.010173
HLA-DQA1	0.873548634	-0.13519	-0.22043	-0.04996	-3.10872	0.001879
LCP2	0.873753687	-0.13496	-0.26848	-0.00143	-1.98101	0.047591
ABCD2	0.873990211	-0.13469	-0.24523	-0.02414	-2.38804	0.016938
PPP1R16B	0.874487899	-0.13412	-0.25039	-0.01784	-2.26075	0.023775
GGTA1	0.874562338	-0.13403	-0.252	-0.01607	-2.22689	0.025955
LAX1	0.874881179	-0.13367	-0.22871	-0.03863	-2.75651	0.005842
CD48	0.875086521	-0.13343	-0.24304	-0.02382	-2.38596	0.017035
CD1C	0.875296636	-0.13319	-0.20852	-0.05787	-3.46562	0.000529
TCF21	0.875507768	-0.13295	-0.21994	-0.04596	-2.99547	0.00274
CTLA4	0.87600553	-0.13238	-0.23512	-0.02965	-2.52553	0.011552
C5orf20	0.877173799	-0.13105	-0.22275	-0.03935	-2.80093	0.005095
FLT3	0.877453625	-0.13073	-0.23458	-0.02688	-2.46729	0.013614
DOCK2	0.877775313	-0.13036	-0.24336	-0.01737	-2.26128	0.023742
CLEC4A	0.877874111	-0.13025	-0.24329	-0.01721	-2.2584	0.023921
COL29A1	0.878232928	-0.12984	-0.20719	-0.0525	-3.29036	0.001001
TREM2	0.878984592	-0.12899	-0.23453	-0.02344	-2.39534	0.016605
CX3CR1	0.879067664	-0.12889	-0.21449	-0.0433	-2.95145	0.003163
LCP1	0.879126383	-0.12883	-0.24825	-0.0094	-2.11424	0.034495
PRAM1	0.879172604	-0.12877	-0.23339	-0.02416	-2.41268	0.015836
LST1	0.879520009	-0.12838	-0.23881	-0.01795	-2.27855	0.022694
THEMIS	0.879676778	-0.1282	-0.23302	-0.02338	-2.39714	0.016523
HDC	0.879731548	-0.12814	-0.2136	-0.04267	-2.93862	0.003297
CD79A	0.879839844	-0.12802	-0.20624	-0.04979	-3.20733	0.00134
FCRL3	0.879962173	-0.12788	-0.20927	-0.04649	-3.07945	0.002074
AMPD1	0.880009564	-0.12782	-0.21038	-0.04526	-3.03452	0.002409
C7orf58	0.880043486	-0.12778	-0.23079	-0.02478	-2.43146	0.015038
RASGRP4	0.88008723	-0.12773	-0.24452	-0.01095	-2.14378	0.032051
KIAA0125	0.880231259	-0.12757	-0.20321	-0.05193	-3.30571	0.000947
IGJ	0.88046948	-0.1273	-0.20417	-0.05043	-3.24589	0.001171
SH2D1A	0.880605731	-0.12715	-0.23178	-0.02252	-2.38173	0.017232
TMEM119	0.88085731	-0.12686	-0.24136	-0.01236	-2.17157	0.029888
P2RY10	0.880888915	-0.12682	-0.23144	-0.0222	-2.37596	0.017504
LY86	0.880897585	-0.12681	-0.23483	-0.01879	-2.30096	0.021394
CD3E	0.880930696	-0.12678	-0.24218	-0.01137	-2.15303	0.031317
TXLNB	0.881108237	-0.12657	-0.2346	-0.01855	-2.29661	0.021641
SCN7A	0.883107398	-0.12431	-0.19554	-0.05308	-3.42058	0.000625

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
CRTAM	0.883287977	-0.1241	-0.232	-0.01621	-2.25441	0.02417
RTN1	0.883384586	-0.12399	-0.22015	-0.02784	-2.52741	0.011491
CD1B	0.883561372	-0.12379	-0.2009	-0.04669	-3.14681	0.001651
IL12RB1	0.883674438	-0.12367	-0.24036	-0.00697	-2.07705	0.037797
SLAMF6	0.884004197	-0.12329	-0.2335	-0.01308	-2.19265	0.028332
CH25H	0.884115424	-0.12317	-0.2029	-0.04344	-3.02786	0.002463
DOK2	0.884248233	-0.12302	-0.24039	-0.00564	-2.05415	0.039961
EVI2A	0.884381849	-0.12287	-0.24249	-0.00324	-2.01312	0.044102
CD80	0.884628134	-0.12259	-0.22935	-0.01583	-2.25051	0.024417
ABI3BP	0.884720584	-0.12248	-0.21124	-0.03372	-2.7046	0.006839
CCR5	0.884755734	-0.12244	-0.24417	-0.000715	-1.97147	0.04867
TIFAB	0.884805865	-0.12239	-0.21886	-0.02591	-2.48631	0.012907
CYSLTR1	0.884809914	-0.12238	-0.22813	-0.01664	-2.26836	0.023308
HGF	0.884903947	-0.12228	-0.21574	-0.02881	-2.56407	0.010345
LILRB1	0.885160483	-0.12199	-0.23545	-0.00852	-2.1071	0.035109
ABCA6	0.885218827	-0.12192	-0.21965	-0.02419	-2.44512	0.01448
CXCR5	0.885451903	-0.12166	-0.20767	-0.03565	-2.77226	0.005567
BLK	0.885478633	-0.12163	-0.19421	-0.04905	-3.28448	0.001022
SPIB	0.885754252	-0.12132	-0.20332	-0.03931	-2.89953	0.003737
CD22	0.886007818	-0.12103	-0.20831	-0.03375	-2.71772	0.006573
MNDA	0.886113106	-0.12091	-0.22119	-0.02063	-2.36311	0.018122
FCRLA	0.886310572	-0.12069	-0.19431	-0.04707	-3.21292	0.001314
PLEK	0.886319866	-0.12068	-0.23324	-0.00812	-2.10127	0.035617
CD3G	0.886987044	-0.11992	-0.22195	-0.0179	-2.30389	0.021229
CD33	0.887048578	-0.11986	-0.22735	-0.01236	-2.18528	0.028869
P2RY12	0.887720491	-0.1191	-0.20528	-0.03292	-2.70855	0.006758
CPNE5	0.887835774	-0.11897	-0.22252	-0.01542	-2.25186	0.024331
NCF1B	0.8880288	-0.11875	-0.21975	-0.01776	-2.30455	0.021192
DCN	0.888086325	-0.11869	-0.22972	-0.00765	-2.09502	0.036169
MS4A2	0.888290968	-0.11846	-0.19502	-0.04189	-3.03219	0.002428
IGSF6	0.888414473	-0.11832	-0.22559	-0.01104	-2.16171	0.03064
MS4A1	0.888779933	-0.11791	-0.17968	-0.05613	-3.7409	0.000183
KCNMA1	0.888977022	-0.11768	-0.21843	-0.01693	-2.2894	0.022056
PAX5	0.889422423	-0.11718	-0.19369	-0.04068	-3.00218	0.002681
IL5RA	0.889498893	-0.1171	-0.2045	-0.0297	-2.62587	0.008643
NCKAP1L	0.889613108	-0.11697	-0.22586	-0.00807	-2.1053	0.035265
HLA-DRB5	0.889839309	-0.11671	-0.19318	-0.04025	-2.99162	0.002775
CNR2	0.889982426	-0.11655	-0.20908	-0.02402	-2.46882	0.013556
PLD4	0.890167475	-0.11635	-0.2005	-0.03219	-2.70955	0.006737
FCRL2	0.890313587	-0.11618	-0.19227	-0.04009	-2.99255	0.002767
CD1E	0.890335147	-0.11616	-0.18635	-0.04596	-3.24335	0.001181
NLRP3	0.890443894	-0.11604	-0.22969	-0.00238	-2.00108	0.045384

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
TNFSF8	0.89051291	-0.11596	-0.22236	-0.00956	-2.136	0.032679
COL6A6	0.890898269	-0.11553	-0.1885	-0.04255	-3.10286	0.001917
CD19	0.891388886	-0.11497	-0.18236	-0.04759	-3.34411	0.000825
HLA-DQB1	0.891785297	-0.11453	-0.19643	-0.03263	-2.74086	0.006128
GZMK	0.892083063	-0.1142	-0.20626	-0.02214	-2.43124	0.015047
PPP2R2B	0.892255465	-0.114	-0.22596	-0.00205	-1.99585	0.045951
FXYD1	0.892320786	-0.11393	-0.19305	-0.0348	-2.8221	0.004771
CTSG	0.892969731	-0.1132	-0.18712	-0.03928	-3.00155	0.002686
ICOS	0.893081762	-0.11308	-0.21704	-0.00911	-2.13171	0.03303
ALOX5AP	0.894102131	-0.11194	-0.21368	-0.0102	-2.15637	0.031055
TRAT1	0.894109187	-0.11193	-0.20816	-0.0157	-2.27965	0.022628
FCER2	0.895719962	-0.11013	-0.18649	-0.03377	-2.82667	0.004703
GPR34	0.895771954	-0.11007	-0.21682	-0.00332	-2.02094	0.043286
CDH23	0.89612293	-0.10968	-0.20847	-0.01089	-2.17594	0.02956
CHRD1	0.896518924	-0.10924	-0.17575	-0.04272	-3.21862	0.001288
CLEC12A	0.896534183	-0.10922	-0.19624	-0.0222	-2.45994	0.013896
FUT7	0.896893584	-0.10882	-0.21569	-0.00195	-1.9957	0.045967
ADAMTS8	0.897671628	-0.10795	-0.17887	-0.03703	-2.98347	0.00285
HLA-DQB2	0.897813045	-0.10779	-0.17429	-0.04129	-3.17707	0.001488
KCNA3	0.898548272	-0.10697	-0.19133	-0.02262	-2.48554	0.012935
POU2AF1	0.899103846	-0.10636	-0.18472	-0.02799	-2.66007	0.007813
C17orf87	0.899737189	-0.10565	-0.20341	-0.0079	-2.11833	0.034147
FOLR2	0.899988183	-0.10537	-0.19969	-0.01106	-2.18982	0.028537
IL7R	0.900405279	-0.10491	-0.19015	-0.01967	-2.41214	0.015859
EOMES	0.901111286	-0.10413	-0.20473	-0.00352	-2.02857	0.042502
PTPRO	0.902163361	-0.10296	-0.20289	-0.00303	-2.01936	0.043449
CR1	0.902334045	-0.10277	-0.19257	-0.01297	-2.24307	0.024893
TPSAB1	0.902947747	-0.10209	-0.17902	-0.02516	-2.60098	0.009296
CD84	0.9030751	-0.10195	-0.19611	-0.00779	-2.12212	0.033827
TNFRSF17	0.903325985	-0.10167	-0.17766	-0.02569	-2.62247	0.008729
P2RX7	0.903440176	-0.10155	-0.19768	-0.00541	-2.07035	0.038419
COLEC12	0.90621754	-0.09848	-0.19232	-0.00463	-2.05665	0.03972
SIGLEC8	0.906840097	-0.09779	-0.18911	-0.00646	-2.09871	0.035843
CPA3	0.906883281	-0.09774	-0.16591	-0.02957	-2.8101	0.004953
FCN1	0.907477345	-0.09709	-0.18246	-0.01171	-2.2288	0.025827
CCL13	0.907986754	-0.09653	-0.17215	-0.0209	-2.50163	0.012362
CCL14	0.908300739	-0.09618	-0.17343	-0.01893	-2.44022	0.014678
FLJ40330	0.908713494	-0.09573	-0.16868	-0.02277	-2.57185	0.010116
CHIT1	0.908975154	-0.09544	-0.15512	-0.03576	-3.13428	0.001723
PNOC	0.910240657	-0.09405	-0.18193	-0.00616	-2.09729	0.035968
ADAM6	0.911582524	-0.09257	-0.17006	-0.01508	-2.34151	0.019206
MRC1	0.91234718	-0.09173	-0.17067	-0.0128	-2.27783	0.022737

Gene name	HR[exp(coef)]	coef	95% CI		Z-score	P-value
			lower	upper		
GFRA1	0.912720998	-0.09133	-0.16179	-0.02086	-2.54006	0.011083
TM7SF4	0.912745358	-0.0913	-0.17788	-0.00472	-2.06674	0.038758
CCL17	0.913925775	-0.09001	-0.15855	-0.02146	-2.57361	0.010064
HLA-DQA2	0.91408494	-0.08983	-0.16713	-0.01253	-2.2778	0.022738
MAP1LC3C	0.914963051	-0.08887	-0.16812	-0.00963	-2.1981	0.027942
FAM92B	0.915381652	-0.08841	-0.1574	-0.01943	-2.51201	0.012005
APOC2	0.916072909	-0.08766	-0.16539	-0.00993	-2.21036	0.02708
TPSB2	0.916398401	-0.0873	-0.16275	-0.01186	-2.26813	0.023321
FCRL5	0.917705976	-0.08588	-0.1602	-0.01155	-2.26458	0.023539
OGN	0.918639622	-0.08486	-0.15265	-0.01707	-2.4535	0.014147
FCER1A	0.918752941	-0.08474	-0.14795	-0.02152	-2.62724	0.008608
CADM3	0.919379754	-0.08406	-0.16414	-0.00397	-2.05712	0.039675
S100B	0.920804983	-0.08251	-0.15878	-0.00623	-2.12004	0.034003
C4orf7	0.921150559	-0.08213	-0.13577	-0.02849	-3.00088	0.002692
GDF5	0.922196978	-0.081	-0.16098	-0.00102	-1.98488	0.047158
LOC96610	0.924448814	-0.07856	-0.15582	-0.00129	-1.99269	0.046295
C7	0.924970914	-0.07799	-0.13804	-0.01795	-2.54579	0.010903
ITGA8	0.927246202	-0.07554	-0.14349	-0.00758	-2.17865	0.029358
ADH1B	0.927748364	-0.07499	-0.12416	-0.02583	-2.98984	0.002791
CCL19	0.930547934	-0.07198	-0.13945	-0.00452	-2.09122	0.036508
ROS1	0.930892057	-0.07161	-0.12862	-0.0146	-2.4619	0.01382
DARC	0.931847889	-0.07059	-0.13762	-0.00355	-2.06378	0.039039
C19orf59	0.933599311	-0.06871	-0.13308	-0.00434	-2.09203	0.036436
CD1A	0.934530812	-0.06771	-0.12409	-0.01133	-2.35384	0.018581
C13orf30	0.941904083	-0.05985	-0.1156	-0.0041	-2.10418	0.035363
DMBT1	0.948831408	-0.05252	-0.09262	-0.01243	-2.5678	0.010235
SFTPC	0.956151016	-0.04484	-0.07545	-0.01422	-2.87055	0.004098
SCGB1A1	0.962680622	-0.03803	-0.07292	-0.00314	-2.13651	0.032638
L1CAM	0.978751996	0.066492	0.000543	0.132441	1.976091	0.048144
ASAM	0.989216356	0.103654	0.012346	0.194962	2.224972	0.026083

HR, hazard ratio; exp (coef), e^{coef}; coef, coefficient.

Table SIV. Prognostic value of genes from two independent lung adenocarcinoma cohorts of the Gene Expression Omnibus database.

GSE37745

Gene name	HR[exp(coef)]	P-value
CR2	0.03435476	0.009568
LOC152586	0.077151328	0.013377
LOC101928052	0.085078926	0.018085
ELL2P3	0.090533817	0.000736
CEP112	0.097652266	0.002605
DGKG	0.098889371	0.002442
C11orf58	0.105327577	0.020642
RP11-502N13.2	0.106085325	0.006477
RDH10	0.111446896	0.028205
GTF2A1L	0.115776143	0.019119
MTHFS	0.117142697	0.011763
MAP3K11	0.122237573	0.000388
DUOX1	0.124114327	0.002006
MIR4315-1	0.124479847	0.000155
LOC440792	0.125252212	0.000518
RUFY2	0.127726873	0.025689
LRRC7	0.12861598	0.032755
ZSCAN30	0.129011665	0.000753
GCSAM	0.134420007	0.000315
RP11-375I20.6	0.135042901	0.000206
LOC100507477	0.135159358	0.031976
MEG9	0.138268203	0.00403
HDAC11	0.140122848	0.001125
IRX2	0.141678057	0.0000742
LOC100505534	0.143561061	0.036917

CTNNA1	0.146439581	0.001148
GABRR3	0.147165411	0.018583
NTRK2	0.147814664	0.016431
SLCO1C1	0.150033307	0.010856
CCDC28B	0.151343358	0.00989
RIOK3	0.151984339	0.026837
BC039319	0.152535408	0.020653
PCDHB1	0.154671543	0.002788
LOC286009	0.156887211	0.001647
C9orf37	0.158737068	0.001151
IGHG1	0.160634903	0.007516
BX648501	0.161743545	0.017497
AP001062.7 /// C21orf2	0.163819806	0.005217
ANKRD44-IT1	0.164815282	0.020641
PAQR9	0.165029519	0.010596
SLC34A3	0.16672517	0.012037
OR1E1	0.167832714	0.035606
KLHL14	0.171927097	0.010663
TPM4	0.172244812	0.005709
TMEM170A	0.172340854	0.011344
SCAMP5	0.173164233	0.016372
WNT6	0.173666042	0.003972
ARNTL2-AS1	0.177396231	0.042364
P2RX1	0.177740547	0.000402
LOC101927346	0.178196942	0.013714
SLIT3	0.179588498	0.017855
BC040734	0.18532332	0.04863
ZNF29P	0.186635197	0.033108
C15orf32	0.18694068	0.004318

LOC100505622	0.188369147	0.0065
LOC101929734	0.189126558	0.005384
CLEC4GP1	0.19026389	0.005455
CNTN2	0.190645544	0.006156
TOR4A	0.191020758	0.004949
CLEC12B	0.191108197	0.026729
LOC101927059	0.191997893	0.034719
LOC286068	0.194086118	0.042612
LOC101929694	0.195639936	0.023931
PRX	0.195719926	0.001627
ST7-AS2	0.196822159	0.027881
PAPLN	0.197870268	0.001596
LOC100127974	0.198907558	0.029458
LDHAL6B	0.199196891	0.01349
ESPNL	0.201426859	0.000775
MEF2C-AS1	0.202352262	0.016749
TCEANC	0.203368961	0.028827
KRTAP5-2	0.203671685	0.009395
BC042091	0.204491825	0.036071
SPG7	0.205095854	0.033695
LOC283454	0.205591372	0.022165
LOC102724938	0.207384188	0.031209
IL21R-AS1	0.208346526	0.015076
LOC100507140	0.208806989	0.049975
KIAA1671	0.212830614	0.002675
SYNJ2	0.213224378	0.01945
LOC100507530	0.213513286	0.033828
RP11-552F3.10	0.216425725	0.011556
ZNF71	0.217362302	0.01649

FOXK1	0.2176196	0.019135
P2RX2	0.219615215	0.002318
TSPY1	0.220426069	0.020572
LOC100507494	0.223513308	0.005407
MYPN	0.223679744	0.014587
FAN1	0.223707948	0.043427
OPRM1	0.224268587	0.014796
HIST1H4F /// HIST1H4G	0.2244564	0.049123
EPO	0.224560499	0.002655
NDST2	0.224993285	0.001277
METTL15	0.225604638	0.02651
RBMV3AP	0.226494924	0.045075
APOH	0.226567516	0.020499
TMEM196	0.226996787	0.01589
AC012531.25	0.226999043	0.013701
GRAPL	0.227264782	0.013465
SPEF2	0.227825109	0.014653
DEAF1	0.228780529	0.025046
MRI1	0.230478184	0.023873
ASXL2	0.23328732	0.014372
FAM167A	0.233681056	0.039194
TSPAN32	0.233898559	0.002733
RABGAP1L	0.233938942	0.038537
LOC102724842	0.234691674	0.002243
AC007362.3	0.23492055	0.015342
ICOSLG	0.235309296	0.006637
TMEM175	0.235800796	0.001039
TRIQQ	0.236730682	0.027926
LOC728099	0.237442108	0.016576

FKSG29	0.238604504	0.049147
C1orf95	0.238715199	0.006091
KCND3	0.239321108	0.010533
ASB10	0.239611221	0.007992
ANKRD19P	0.242134106	0.00832
EML5	0.244770722	0.03769
PTPN7	0.246904905	0.004302
SAYSD1	0.248067164	0.03325
LOC101929511	0.248160884	0.032289
TFAP2A	0.2486795	0.03281
MYCNOS	0.249064377	0.037678
SYNE3	0.249211154	0.011104
CTB-12O2.1	0.249534717	0.04008
PLD4	0.251198568	0.011674
FRMD8	0.252348814	0.042908
GH2	0.253114475	0.023055
SSR4	0.25331592	0.000000077
LOC219690	0.253708447	0.019116
DUSP26	0.255123492	0.003105
SIRT3	0.256148105	0.015694
BET1L	0.257744428	0.001324
RP11-218C14.8	0.258986114	0.006367
DBH-AS1	0.261674935	0.005976
SAMD14	0.263692277	0.016478
TAZ	0.263966233	0.000637
TAZ	0.26455465	0.003555
PNMAL2	0.266587235	0.035886
ARHGEF15	0.267410992	0.047052
BC034456 /// RP11-229P13.25	0.267577692	0.015171

PROCA1	0.268792314	0.01609
LOC100130456	0.269453251	0.01902
HOXB3	0.269748791	0.012485
DSG1	0.269856306	0.030211
RNF141	0.269919811	0.008611
FKBP8	0.270095163	0.026262
AAK1	0.270566606	0.022634
TRIM78P	0.270967301	0.003608
MIR7515 /// MIR7515HG	0.271972061	0.02127
MIR4800 /// MXD4	0.271997498	0.001388
BC127192 /// SHANK2	0.272824604	0.035829
HSPA1L	0.272917144	0.001615
TRBV7-3 /// TRBV7-3	0.272970462	0.004237
DCLK2	0.273290928	0.035631
TSPO2	0.27432328	0.007689
FAM230B	0.274812766	0.006776
RP11-338N10.1	0.275347208	0.008493
WBSCR16	0.275884655	0.008922
LOC100652768	0.276662074	0.010893
CIRBP-AS1	0.277061945	0.037139
IFNA1	0.277514309	0.03704
LBX1	0.27791774	0.002163
ERLEC1	0.278572318	0.0000144
CTIF	0.279587965	0.040838
SLC25A53	0.279872983	0.043893
LOC100130872	0.280985143	0.019305
TIPARP-AS1	0.281130903	0.035066
GPD1	0.282054883	0.015172
TRIO	0.282411174	0.021505

TSPAN32	0.282965839	0.003728
NODAL	0.283179747	0.041795
PWWP2B	0.283292507	0.019455
PAOX	0.284667981	0.01243
ZRANB2-AS1	0.284783546	0.008153
HIST1H2BN	0.28513392	0.005978
LOC100996425	0.285407561	0.029467
IQSEC1	0.285589538	0.000967
EIF1B-AS1	0.285681556	0.010652
MAPK4	0.286594453	0.013294
FAM78B	0.287072563	0.017624
FAM13A-AS1	0.288345215	0.003507
LINC00944	0.288439066	0.001162
LINC00226	0.288578537	0.045254
GJA3	0.289006442	0.014321
HIPK4	0.289658917	0.030919
PROM2	0.28986038	0.023955
SH2D3C	0.290599974	0.040982
PHF1	0.290623332	0.002591
EHD3	0.290919849	0.037037
BC089413 /// IGLVI-70 /// IGLVI-70	0.291427443	0.005886
LINC00165	0.292680595	0.005765
RPL10 /// SNORA70	0.293204997	0.022846
NXPH3	0.295923064	0.01857
TRPM3	0.29641872	0.015476
CA7	0.29681416	0.015645
DUS3L	0.298649067	0.027433
PYROXD2	0.298702181	0.004352
TAOK3	0.299731247	0.00584

MBD3L1	0.300077815	0.026377
ZNF555	0.300132231	0.04321
SNX20	0.300249471	0.003658
EPN2 /// EPN2-IT1	0.300484984	0.001977
LDB3	0.300776747	0.049228
GHRL	0.301334392	0.031519
LOC101929373 /// SLC9B1	0.301883949	0.046129
SEMA4D	0.302121618	0.001945
ARHGEF40	0.302598782	0.017024
LENG1	0.304146607	0.013345
LOC101929655	0.304616818	0.023179
ESR1	0.305747148	0.047115
LINC00528	0.306260333	0.011441
C15orf57	0.30629227	0.029623
SLC4A5	0.308524269	0.035115
HTR5A	0.308903231	0.013811
TSPYL2	0.30910388	0.006687
HS6ST1	0.30991483	0.009937
RP11-84D1.2	0.311361642	0.009711
AKAP12	0.31194166	0.010424
SCML4	0.312176645	0.00327
TPP1	0.314308811	0.008
PRCP	0.314313509	0.019941
TNFRSF9	0.314349766	0.011651
NAAA	0.314917037	0.00125
ZNRF1	0.315487715	0.049831
IGH	0.316384346	0.004485
MAPKAPK2	0.316697584	0.003505
RP1-286D6.5	0.316902468	0.018235

TCF25	0.317645471	0.011591
ANKRD24	0.318574545	0.036596
KCNN3	0.31916211	0.025477
RAMP2-AS1	0.319243301	0.047961
MIB2	0.319502215	0.010204
INTS6-AS1	0.31969593	0.016681
TSR3	0.31986192	0.032671
DCLK2	0.320039861	0.005472
AMER1	0.320646489	0.013872
TRIM36	0.321764317	0.010045
CRTC3	0.321857528	0.005253
RAB30	0.322162345	0.0000343
SHC3	0.322717047	0.028384
TMEM106A	0.323049071	0.021088
LINC00957	0.323512375	0.027521
CCDC136	0.324265826	0.040352
NCOR2	0.324748442	0.028484
RGS6	0.324832706	0.020138
DSTNP1 /// DSTNP1	0.324871532	0.041401
LRTM1	0.324944695	0.011381
ZNF557	0.325083845	0.036564
ITPRIPL1	0.326273515	0.022881
RNF113A	0.326936851	0.002763
LOC389641	0.32793874	0.008061
DGCR7	0.328232951	0.047328
LDLRAD4	0.328314155	0.004052
FUT7	0.329560593	0.002666
LINC00582	0.330154564	0.002581
SCAND2P	0.330224566	0.025238

BC047651	0.330671613	0.047918
EFNB3	0.330891058	0.02596
ERICH1 /// FLJ00290	0.331103685	0.013552
CUBN	0.331919405	0.013796
C3orf70	0.33273944	0.002525
NOP14-AS1	0.332949207	0.020394
ZNF688	0.333209813	0.002734
CHID1	0.333385433	0.00056
AMER2	0.334120819	0.031389
MYH7	0.334330394	0.045395
LOC101928221	0.334924155	0.045927
LINC01184 /// LOC101929964	0.335342384	0.01524
MSANTD1	0.335804998	0.004756
CCR4	0.335865491	0.04441
CALML6	0.336055673	0.034756
ST3GAL2	0.336863831	0.007688
PRPF40B	0.337580834	0.001837
TF	0.337927673	0.025648
AHSP	0.33883804	0.023067
CD40LG	0.339034637	0.015607
LOC284112	0.339668962	0.002341
KIR3DX1	0.341536551	0.027401
CPA5	0.341950449	0.015272
P2RX4	0.34245559	0.000131
GSN	0.344328372	0.036169
LOC730961	0.344547192	0.030064
MTMR1	0.345238501	0.017733
RP11-805I24.3	0.347703623	0.048347
TRAFD1	0.347827373	0.002852

TMEM132A	0.34892447	0.024294
PLK3	0.349586463	0.040532
CDYL2	0.349716229	0.046754
EPG5	0.350265574	0.035407
GMDS-AS1 /// RP1-80B9.2	0.350583679	0.016542
HAX1	0.3512517	0.018842
GIT2	0.351392509	0.004496
LINC00312	0.351579465	0.015257
KMT2A	0.351629969	0.046697
HYDIN	0.352792212	0.046475
SLC9A5	0.353018784	0.016739
NAGLU	0.353039745	0.001159
LZTS1	0.35311057	0.020438
RALGPS1	0.353269608	0.045233
CREBBP	0.353794392	0.049338
C21orf67	0.353842445	0.04432
FUNDC2	0.353992917	0.00103
PLEKHH3	0.354734865	0.015904
WAS	0.355756581	0.017073
NME8	0.356962624	0.021533
BMPER	0.35797985	0.006612
IL12A-AS1	0.358043624	0.0465
RCE1	0.358819737	0.016231
BFSP2	0.358848282	0.02018
ZNF333	0.359151399	0.008492
INHBC	0.360000855	0.046875
SFXN5	0.362188894	0.033135
IKBKG	0.363057533	0.014264
GNG7	0.364300059	0.000118

ANKRD1	0.364375636	0.038151
CALR3	0.364781942	0.045325
TMEM50B	0.365004195	0.033047
AKNA	0.36518431	0.000453
PDCD4-AS1	0.36549274	0.005869
NCR1	0.366561761	0.043944
FKBP2	0.366855843	0.000511
CFLAR /// LOC102724614	0.367254432	0.012728
MIR6751 /// SYVN1	0.367806376	0.005296
TTL5	0.370078071	0.00835
LOC100130502	0.370433251	0.009008
GLP1R	0.370953703	0.029422
FAM129C	0.370985772	0.009901
PRR22	0.371416009	0.040296
S1PR2	0.372008406	0.01128
ST6GALNAC6	0.372029169	0.005383
SRP19 /// ZRSR1	0.372040874	0.003197
ICAM3	0.372759141	0.0000072
TFE3	0.373093574	0.002773
PLEKHM1	0.373270515	0.00517
TRAFD1	0.37363642	0.00437
LCNL1	0.373916854	0.039487
NAALADL1	0.374229799	0.030219
LINC00957	0.374262117	0.007772
BIVM	0.374664502	0.018964
POU2F2	0.375139352	0.012838
ENTHD2	0.375713429	0.016292
HSH2D	0.37606687	0.000233
SLC5A2	0.376084219	0.037408

DNAJC18	0.37655904	0.015326
ARHGEF12	0.376845199	0.048759
LLGL1	0.37687834	0.003913
SEC24C	0.377120511	0.003584
RUSC2	0.377470127	0.0363
OR52K3P	0.378516099	0.040299
AC007228.11 /// BX647249	0.378833817	0.037039
LURAP1	0.37906551	0.047256
DCAF8	0.379204578	0.006373
ANKRD20A11P	0.37954305	0.005675
AP001462.6	0.380302386	0.005611
SWSAP1	0.38047847	0.00808
SFXN5	0.380546256	0.043322
OGFOD2	0.381099971	0.037889
SCYL1	0.381550923	0.043874
WDFY2	0.381995894	0.047971
CNTNAP1	0.382643493	0.019758
CHPF2	0.383105599	0.006865
C12orf76	0.383803224	0.043851
SMARCB1	0.384042672	0.010412
SLC34A1	0.38529712	0.045748
ATP6V1E2 /// FLJ41757	0.385393397	0.008934
CLNK	0.386038052	0.016504
PLBD2	0.386925607	0.012168
SIT1	0.387618502	0.002349
ERC1	0.387657445	0.01493
MECP2	0.389204259	0.000762
FCRL1	0.389289398	0.046875
MRPL41	0.389428673	0.036367

CXCR5	0.389648118	0.024475
USP19	0.390029615	0.023869
ASB1	0.390543163	0.017631
CNTROB	0.391595348	0.040376
TRAPPC9	0.391751763	0.023605
FAM89B	0.392822243	0.003015
CNR1	0.393248471	0.00977
SYDE1	0.393806735	0.041757
C11orf21	0.394663941	0.000978
RP11-498C9.17	0.394915082	0.048698
EHD3	0.395109102	0.00982
TBX5	0.395216113	0.049152
KCNQ1OT1 /// LOC101927338	0.396477181	0.048475
RP11-332H18.4	0.397218956	0.036411
NKAPP1	0.397761045	0.014299
C21orf58	0.397997968	0.046996
TEC	0.398441348	0.025564
RP11-28F1.2	0.39858269	0.007139
ZNF219	0.399140795	0.021089
NUDT14	0.399202705	0.029531
ZNF506	0.399562668	0.001367
PPP1R12C	0.399571984	0.032591
N4BP2L1	0.399981648	0.004007
RP11-115A15.2	0.400115989	0.025701
FLJ11292	0.400455701	0.011885
TXNDC15	0.4028089	0.0000517
LCN10	0.403434878	0.036153
PCED1B-AS1	0.403486813	0.033703
PRKD2	0.403684056	0.011228

SLC6A13	0.40373066	0.0304
MEI1	0.40401977	0.001345
CNGB1	0.404186455	0.017612
C17orf70	0.404198577	0.020385
POU6F1	0.40422086	0.01138
TMCC2	0.405063201	0.027127
MAPKAPK5-AS1	0.405384613	0.048808
ISCU	0.406131274	0.014671
BCAS4	0.406242142	0.00747
C19orf83	0.406413692	0.021073
KIAA0125	0.406468251	0.000197
ZBP1	0.406909942	0.002017
TLE6	0.406963048	0.038118
NUP210	0.407234104	0.011078
MIR142	0.407601599	0.001484
MIR6748 /// TMEM179B	0.407610888	0.016878
POU2F2	0.40800181	0.021464
MAST3	0.408683533	0.047182
LTBP3	0.409938675	0.006677
RNASEH2C	0.409978168	0.039155
DERL3	0.410193785	0.0000586
TRAFD1	0.41071372	0.005953
FFAR1	0.411164565	0.035756
PAOX	0.411194613	0.014448
ARHGEF2	0.411885771	0.0014
RP11-464F9.20	0.412022021	0.019967
IKZF3	0.412164667	0.005405
SLAMF1	0.412963158	0.022234
DNLZ	0.413528557	0.000814

ATP10A	0.413687428	0.042585
FBXW7	0.413787326	0.005308
TRIM69	0.41381698	0.001368
WNK1	0.413922763	0.00633
RNH1	0.414551424	0.017309
LOC100507507	0.415538318	0.042124
CD180	0.41621955	0.001085
DPP9	0.416510413	0.049391
LINC00599 /// MIR124-1	0.418008679	0.033869
SDS	0.418125076	0.02574
LOC100507477	0.41897716	0.017856
DPP9	0.419132482	0.014479
SCML4	0.419407612	0.011283
SEC31B	0.419569109	0.015725
POM121L9P	0.419579807	0.006928
LDB1	0.419942509	0.011762
SPATA21	0.420153762	0.026114
CNTD2	0.421054925	0.014588
TMEM116	0.421596284	0.031972
ANGPTL1	0.421792889	0.045608
NAGK	0.422232975	0.018422
PLXNA4	0.422609391	0.030989
MIXL1	0.422690549	0.03622
CSNK1D	0.423037388	0.013035
TMEM179	0.423108295	0.023747
DIXDC1	0.423424854	0.049401
LOC642236	0.424123125	0.049175
TSSC4	0.424344217	0.02094
PPARD	0.425098211	0.048301

IKZF3	0.425611461	0.000444
C10orf53	0.426533417	0.048709
WDR45	0.426669511	0.023177
HMHA1	0.427508354	0.049602
DPP7	0.427758813	0.029686
MED13	0.428724097	0.03626
FBXW7	0.42897565	0.006075
TCR-alpha /// TRAV12-3 /// TRAV12-3 /// YME1L1	0.428980595	0.020803
PRDM2	0.429395422	0.013537
TSPAN9	0.429872184	0.011643
DERL3	0.431991052	0.047278
HSPA12B	0.432087399	0.015306
FAM223A /// FAM223B	0.432330745	0.022381
TTL11	0.432705702	0.02338
ZDHHC24	0.432859064	0.01795
CCNI	0.433033924	0.041462
GRID1	0.433420162	0.029064
WDR45	0.434017879	0.009364
AC006129.2	0.434383763	0.02886
SMG6	0.434777762	0.048478
UBTF	0.434834436	0.030014
CD79B	0.435577289	0.001009
GOLGA1	0.437266542	0.029592
PPP3CC	0.43743218	0.005625
ZDHHC24	0.43758003	0.041984
IFFO1	0.438226206	0.025539
NR1D1 /// THRA	0.439134717	0.025622
ACAP1	0.439221317	0.001408

SELK	0.439258565	0.041427
FKBP15	0.439996401	0.038565
ODF3B	0.440069402	0.002542
OSBP2	0.440307016	0.025413
SIRT3	0.440781858	0.02048
EDF1	0.441073334	0.025676
ST3GAL2	0.441515424	0.027577
ERLEC1	0.441706831	0.004295
LOC728040	0.442197467	0.048854
B3GAT3	0.443584956	0.012615
IL21R	0.443930446	0.004885
CA5A	0.443936162	0.039331
RP11-436D10.3	0.444319065	0.036852
EMC10	0.444537549	0.017656
SLC6A4	0.444694864	0.04272
RARA	0.445069198	0.041297
RHBDD3	0.445406207	0.041902
ELMO2	0.445723599	0.01047
PITPNM2	0.44612474	0.047525
ANXA11	0.446577781	0.007006
KIF5C	0.447006244	0.044331
RSPO4	0.447031632	0.020073
CTB-119C2.1	0.447635741	0.030987
COBLL1	0.447739738	0.005295
DOCK10	0.448251372	0.012646
NAV2	0.448726536	0.040854
MAST1	0.448915461	0.020528
TXNDC15	0.449067182	0.009656
FAM53C	0.449075695	0.042476

MIR4800 /// MXD4	0.449418856	0.013935
PPM1F	0.449829151	0.039967
RAD50	0.449844393	0.000412
TBC1D10C	0.450288843	0.001398
CD81	0.451545394	0.005297
UQCR11	0.451841322	0.017249
IDO2	0.452124171	0.011036
LOC101928845	0.452309975	0.043518
XKR6	0.453037864	0.029217
BCL2L1	0.453224566	0.032374
FLVCR2	0.453268864	0.047656
C19orf70	0.453568244	0.02865
CCDC142 /// MRPL53	0.454108483	0.047216
SEMA4D	0.454328968	0.005041
THRA	0.454618691	0.02528
SMPDL3B	0.454821088	0.03058
LSM10	0.455622451	0.018136
SPIB	0.456029651	0.005409
DSEL	0.456212344	0.046774
PPIEL	0.456789482	0.031668
SETDB2	0.456804607	0.005023
LOC100049716	0.457004015	0.014924
LOC100996255	0.457098376	0.011679
ARSA	0.457545178	0.000547
DYRK4	0.458217245	0.008123
COA1	0.459013071	0.008124
LY9	0.459046868	0.0000572
AFMID	0.459254264	0.01841
GSTM5	0.459755512	0.045176

FAM46C	0.459773136	0.00000841
ARSB	0.459942228	0.010828
TRAFD1	0.460569904	0.045628
ZNF236	0.461216724	0.038255
CIAO1	0.461802015	0.028856
VPS39	0.463382403	0.039051
MEI1	0.463482871	0.001024
CCDC159	0.464298307	0.041909
PYHIN1	0.464851703	0.029541
SLC12A1	0.464852971	0.037612
ING4	0.464940207	0.019085
POU2F2	0.466105012	0.003901
MCF2	0.466263316	0.047431
C11orf68	0.466313693	0.03451
TRIM35	0.466317269	0.049062
MAPK10	0.466859005	0.008162
ZNF791	0.467067883	0.009549
ZNF641	0.467131837	0.01928
TRABD2B	0.467144445	0.033234
FMNL3	0.467402937	0.021538
ZNF652	0.468648141	0.022053
KRTCAP2	0.468761797	0.037061
FGD2	0.469063338	0.032179
MIF4GD	0.469408169	0.006701
TRAF3IP3	0.469564115	0.045911
KIAA1755	0.469583497	0.042322
ARL17A /// ARL17B /// LOC100294341	0.470055185	0.0000746
LAT	0.47062845	0.010736
EZH1	0.471106971	0.020941

AZIN2	0.471667072	0.033307
CXorf40A /// CXorf40B	0.471948237	0.019697
SOCS2-AS1	0.472057131	0.044903
MAP4K1	0.47229631	0.009494
PLA2G5	0.472540084	0.035804
TOLLIP	0.472550303	0.033244
RRP8	0.472837159	0.027181
ARHGAP17	0.473115297	0.011785
LINC01023	0.47351337	0.013503
FCRL4	0.473912617	0.011582
H1FNT	0.47403582	0.034477
DENND6B	0.474143572	0.024136
NICN1	0.474639247	0.019433
BRF2	0.475031124	0.031023
SEMA4A	0.476332631	0.004482
TNFAIP2	0.476459507	0.023813
IGHG1	0.476650798	0.038805
TERF2IP	0.477963784	0.027617
SERINC3	0.478057366	0.014185
IL16	0.47819066	0.000705
POLR2L	0.478353714	0.005227
FAM214B	0.479712876	0.034191
CLEC1A	0.479943224	0.022345
GNG7	0.48008146	0.00557
CXorf40A	0.480158719	0.015186
KRT10	0.480313981	0.017069
ROBO3	0.481130921	0.007906
CXorf40B	0.481650732	0.01828
GLIS2	0.482045192	0.009178

MVB12B	0.482659465	0.019809
ZNF791	0.482976846	0.032439
SAFB	0.48321368	0.04303
IFFO1	0.483851198	0.005959
DSCAM	0.485067208	0.04265
SCARB2	0.486396637	0.017399
MAN2B1	0.486747212	0.002672
USP11	0.487308064	0.012968
CXorf65	0.487590217	0.030239
LRP10	0.487695241	0.005689
MLXIP	0.488238124	0.006118
ENTPD1	0.488953661	0.003181
FLT3LG	0.489016273	0.01891
HERPUD1	0.489130881	0.001369
IL16	0.489673332	0.024752
IGHA1	0.490457436	0.039378
DEF6	0.490864655	0.006598
RAB30	0.491303703	0.0000381
CLUHP3	0.491576648	0.002063
PCDHAC1	0.491940301	0.017417
FBXW7	0.491946449	0.001433
CNNM2	0.49209772	0.028993
LYST	0.492129984	0.02683
DCAF5	0.493052224	0.023625
MIF4GD	0.495635189	0.023797
ULK1	0.496437397	0.017193
LOC102723479	0.496615894	0.004858
TMEM129	0.497250472	0.038229
NAT9	0.497475779	0.01916

IKZF4	0.497936096	0.005159
TMEM155	0.498002137	0.038173
DHX30	0.4981639	0.0359
SH2D3C	0.498353944	0.020182
PGAP3	0.498901947	0.013045
MDP1 /// NEDD8-MDP1	0.499184059	0.017573
EDF1	0.499232849	0.049574
FCGRT	0.499991048	0.001015
SETDB2	0.501211087	0.040661
SLC35E1	0.50127575	0.027891
AP006222.2	0.501317755	0.021523
MOB3A	0.502069921	0.03129
ARL6IP4	0.502432547	0.027631
BTN2A2	0.502522141	0.019812
IGHA1	0.502889905	0.040208
LRRC23	0.503000988	0.008641
SYNGAP1	0.503842731	0.038562
MCPH1	0.504095476	0.029096
C1GALT1C1	0.504794135	0.015547
BTLA	0.505212902	0.013516
MYO1C	0.505441033	0.029596
LOC101927943	0.505942782	0.019966
GIMAP1	0.506641137	0.00618
LAT	0.506753304	0.008732
CCNG2	0.506843971	0.005263
ZSWIM3	0.50742952	0.046528
MFSD5	0.507611191	0.025241
GIMAP1	0.507737206	0.016351
SEL1L	0.508052207	0.012092

ZNF791	0.508533262	0.019933
SAT1	0.509235082	0.019012
BZRAP1-AS1	0.509292261	0.019961
TESPA1	0.509445736	0.042777
HEXDC	0.509776427	0.049972
PTPN7	0.510691909	0.003539
CLPTMIL	0.511018696	0.01583
SPCS3	0.511049427	0.015857
CD1B	0.511435178	0.011543
SLC25A45	0.511725517	0.033101
IGLV4-3 /// IGLV4-3	0.512151334	0.031646
NFIC	0.512216548	0.006606
BTG2	0.512321651	0.000343
VPREB3	0.514012854	0.000962
RP11-399O19.9	0.514719636	0.035506
PLXDC1	0.515149238	0.001158
PRKD2	0.515697075	0.023411
NECAP2	0.515815388	0.021141
CCDC57	0.516152771	0.024344
ATP5G2P1 /// ATP5G2P1	0.516256277	0.041514
CLPTMIL	0.516392026	0.004438
FCRLA	0.517168638	0.002138
KSR2	0.517391452	0.012186
FAM50A	0.517867188	0.003517
SLC30A4	0.518067732	0.008171
CYLD	0.518252246	0.003989
SH2B1	0.518858952	0.033705
ZDHHC24	0.519242877	0.033038
ANAPC4	0.519368318	0.046861

SIL1	0.519385131	0.01861
TXNDC11	0.519436024	0.006896
LOC100652930	0.520019027	0.004305
C5orf56	0.520408802	0.003843
LUC7L	0.520676616	0.028502
BLK	0.520917411	0.032815
SLC25A35	0.520948429	0.042676
UBTD1	0.521003807	0.041145
ZNF37BP	0.521628528	0.020813
N4BP2L1	0.522004415	0.026328
HTR1F	0.522290123	0.023342
HMHA1	0.522772693	0.009903
ZBTB4	0.523328875	0.040948
SEC14L1P1	0.523919602	0.025818
SYNPO2	0.524002101	0.042647
LOC286272	0.524317998	0.014789
TRIM66	0.524611081	0.015721
FAM89B	0.524791836	0.027473
PARP11	0.525230026	0.00729
FCRLA	0.5261992	0.005736
ANTXR1	0.526361646	0.028966
DNAJB9	0.526513178	0.003108
ZC3H13	0.526523124	0.025505
HRCT1	0.526697271	0.035605
ZSWIM8	0.527566866	0.023217
GFRA1	0.528016399	0.017661
ADORA2A /// SPECC1L-ADORA2A	0.528752105	0.044844
CCS	0.529262128	0.030553
LOC100131043	0.529326608	0.021336

SEL1L	0.529705619	0.002107
HDAC5	0.529786168	0.02662
PRDX4	0.530154779	0.005788
KLHL6	0.531187473	0.032976
CIAO1	0.531188524	0.015021
FCRL5	0.531766694	0.000393
ITIH3	0.531778734	0.039595
IFNAR2	0.532225983	0.027202
BMF	0.532316674	0.024736
P2RY8	0.532485517	0.000283
LUC7L	0.532758376	0.019159
CD99L2	0.532942866	0.00315
NFX1	0.533435924	0.039023
TLR10	0.533564242	0.017412
CTSA	0.533733861	0.003573
TMEM205	0.534102365	0.010118
CREBL2	0.534214352	0.023038
SAT1	0.53431513	0.026488
UBE2J1	0.534526607	0.011913
LINC00341 /// SYNE3	0.534575802	0.001755
LY9	0.535086381	0.025189
AKAP17A	0.535327762	0.01572
PRND	0.535517596	0.026005
JSRP1	0.535852132	0.026117
RHBDF1	0.536673824	0.047761
RELB	0.536717671	0.029632
SMAD7	0.536743855	0.001542
BTN2A2	0.536797545	0.023454
TAF10	0.536981735	0.01698

PPM1K	0.537374834	0.000546
KCNMB1	0.537417701	0.006118
FBN3	0.537425953	0.042877
CXorf40A /// CXorf40B	0.538313972	0.046634
TOPORS-AS1	0.538616023	0.015298
CCND2	0.53878482	0.000753
KLHL9	0.538821657	0.034575
TNFRSF4	0.539088421	0.036141
CDH11	0.539093177	0.001219
TMED1	0.539508529	0.035538
ITPKB	0.539669327	0.006644
AF086288 /// RP11-768F21.1	0.539747482	0.033494
DENND5A	0.53995999	0.024014
Igk	0.540105819	0.026383
ERP29	0.54047817	0.023352
GDF11	0.540765504	0.009384
RHOQ	0.541053485	0.024035
SLC26A11	0.541157621	0.036871
C12orf57	0.541225195	0.023018
FES	0.541481858	0.035004
C11orf31	0.541485346	0.045643
GDF11	0.54204209	0.025816
LY9	0.542070173	0.017768
TFE3	0.542136554	0.042837
FMOD	0.542827115	0.003331
PLCG2	0.54290027	0.004983
IGHA1 /// IGHA2 /// IGHG1 /// IGHG4 /// IGHM /// IGHV4-31 /// LOC102723407	0.543043362	0.010748
SMPD1	0.543210234	0.022011

CCDC142	0.543286385	0.030714
ABHD17A	0.543750894	0.03969
AP2A2	0.544064925	0.03975
ZCCHC2	0.544333517	0.004168
PNPO	0.54437874	0.032939
TP53INP1	0.544419384	0.0000975
TOPORS-AS1	0.545146804	0.038441
SLC22A17	0.545325288	0.009504
CCPG1 /// DYX1C1-CCPG1	0.545462273	0.007236
ZNF75D	0.545480833	0.004104
C11orf71	0.545595991	0.011512
PLBD2	0.545790392	0.031293
PPAPDC1B	0.545874053	0.003825
GAS6	0.54592774	0.017461
APLNR	0.546423064	0.011411
RAB30	0.546591603	0.0000867
KANK3	0.546641219	0.032799
STARD5	0.546669106	0.033219
EVC	0.548427526	0.032868
CLEC2D	0.548898593	0.026467
CHD3	0.548975026	0.045747
C19orf52	0.549529951	0.023592
PDE7A	0.550235476	0.031206
LOC158960	0.550470262	0.014678
XIAP	0.550619166	0.035558
SYCE3	0.551099743	0.04024
FAM78A /// LOC101927137	0.55184453	0.028268
RUSC1-AS1	0.552033051	0.019372
FAM134C	0.552046	0.022292

MICAL1	0.553735122	0.015879
BLOC1S5-TXNDC5 /// TXNDC5	0.554035138	0.014707
ARHGAP9	0.554513032	0.002664
PEBP1	0.554546287	0.009413
PLXDC1	0.555025486	0.001508
SIRT4	0.555158681	0.030244
IRF4	0.555551906	0.001274
SPACA6P	0.55605407	0.022284
EBI3	0.556352857	0.033311
DENND1C	0.557136576	0.032892
LOC285074 /// LOC730268	0.557139776	0.021581
KDM2A	0.557269539	0.047106
CXCR3	0.55780305	0.023718
AMPD1	0.558042834	0.000738
SAT2	0.558525456	0.030584
MAP4K1	0.558736097	0.034486
TNFAIP8	0.558944579	0.013586
NCOR2	0.560053273	0.027601
PIM2	0.560297878	0.000308
NRXN3	0.560456189	0.03469
POU2F2	0.561069277	0.020411
ALAD	0.561084262	0.03408
XIAP	0.561216577	0.022772
FAM46C	0.561529227	0.000000439
CD79A	0.561700644	0.003754
PKHD1L1	0.562132616	0.002016
CTA-292E10.6	0.562431828	0.002296
ODF3B	0.562863286	0.00829
PRELP	0.562962836	0.000716

ZBTB46	0.563644984	0.049306
STAP1	0.564087772	0.021881
ENGASE	0.564435198	0.047371
BTK	0.565628319	0.008849
SIGIRR	0.565947719	0.0351
VAMP1	0.566689644	0.001645
IL11RA	0.566739277	0.031748
ERN1	0.566811339	0.004308
AP2A2	0.567339943	0.049142
CREB3L2	0.567506336	0.038128
GAB3	0.568513557	0.0076
RHOQ	0.568673522	0.039263
MAP3K13	0.568988669	0.028889
CCPG1 /// DYX1C1-CCPG1	0.569139166	0.010739
TUBG2	0.569770582	0.039967
SLC10A3	0.570386816	0.025429
MIR10A	0.57067761	0.046299
TMEM150A	0.570850782	0.02913
IDS	0.571055405	0.000199
F8A1 /// F8A2 /// F8A3	0.571087663	0.006582
MBD2	0.57139328	0.03847
DNMT3A	0.571545586	0.025319
BCAS4	0.571735033	0.004441
SBSN	0.572179959	0.046377
GIMAP1-GIMAP5 /// GIMAP5	0.572726615	0.044869
LOC728392	0.573052425	0.015911
DNAJB2	0.573749423	0.049087
IKZF1	0.573901172	0.018098
ORAI1	0.574805484	0.040063

ITGAL	0.575369913	0.01264
SIGIRR	0.575492453	0.046118
C11orf80	0.575643741	0.024552
VKORC1	0.575845449	0.041781
LCP2	0.57626464	0.032672
ATP6AP1	0.576433466	0.044248
SLAMF1	0.576483968	0.004718
NOX4	0.576702526	0.041097
CYP2R1	0.576998434	0.009141
FYCO1	0.5772003	0.009878
KCNA3	0.57749107	0.004756
JAK3	0.577777051	0.005562
CYLD	0.577814578	0.024504
CD27	0.578285319	0.000308
GNPTAB	0.579414587	0.013356
ERICH1	0.580027089	0.021761
COL9A2	0.580291396	0.011476
SWAP70	0.580906272	0.007866
PHF11	0.581502512	0.02218
PODN	0.581921246	0.012114
IL21R	0.582484358	0.002462
CREBL2	0.5825422	0.00943
PAPPA	0.583386235	0.02278
NMRK1	0.583889119	0.01138
CYLD	0.584715755	0.005849
HIP1R	0.585873849	0.034927
KRT10	0.585922642	0.03736
CARD9 /// DNLZ	0.586877844	0.043694
PARVA	0.587496298	0.029304

CYAT1	0.587649493	0.002234
EVL	0.587744422	0.01312
TENM4	0.588446802	0.00581
RASSF5	0.588671018	0.025979
TENC1	0.58911959	0.045802
PPP1R16B	0.589147501	0.019695
LILRA5	0.589440381	0.048984
SNRNP200	0.59076956	0.01058
ATP6V1E2	0.591083049	0.028464
SPSB2	0.591101986	0.003195
LOC100506476	0.591266308	0.020225
SPRY1	0.591267269	0.02238
HIPK2	0.591428322	0.006559
RNF212	0.591531188	0.031624
ERN1	0.592448673	0.000464
TCP11L2	0.592562168	0.034572
C2CD2	0.592996807	0.03143
TIFA	0.593121169	0.022251
FCRL3	0.593451922	0.001028
MICA /// MICB	0.594045499	0.041163
GAS6	0.594526027	0.009986
A2M-AS1	0.594799102	0.022709
LOC100293211	0.595222106	0.000613
RP3-525N10.2	0.595280502	0.035549
RAB24	0.596924776	0.032857
EIF2AK3	0.598022686	0.037701
CLDND1	0.598674438	0.030835
TNIP2	0.599036301	0.03644
TNFRSF25	0.599176736	0.013686

TRAF3IP3	0.600095372	0.024569
RNF144A-AS1	0.600116447	0.034859
MIR4800 /// MXD4	0.600679914	0.023125
IGHA1	0.601752394	0.002638
ARHGAP9	0.602405688	0.030942
NTHL1	0.602525558	0.030024
LRRC69	0.602633799	0.020313
ZCCHC24	0.603712568	0.022618
SPOP	0.603871536	0.026146
NFATC2	0.604668243	0.005086
CC2D1B	0.605216679	0.044982
LOC100294341 /// LOC101929774	0.60529958	0.001768
HCST	0.605884129	0.017096
DDX26B	0.605947427	0.021373
UEVLD	0.606082897	0.025419
GFI1	0.60658457	0.047737
ARHGAP9	0.607503615	0.015941
LBH	0.609237601	0.006793
KIAA0922	0.609688983	0.029009
LINC00893	0.610809372	0.007212
TMEM134	0.61122936	0.037058
IL10RA	0.611539565	0.004119
ERBB2	0.612422117	0.027055
PXMP4	0.612834498	0.012346
ITPKB	0.612895129	0.01095
LAX1	0.613278422	0.000232
SWAP70	0.613413085	0.02545
MUM1	0.614126993	0.027218
CCPG1 /// DYX1C1-CCPG1	0.614176842	0.025563

PNOC	0.614294948	0.000937
CBX7	0.614438855	0.021287
IKZF1	0.614441024	0.027584
CTGF	0.614583182	0.004833
FCRLA	0.615109293	0.001426
DUSP16	0.615402377	0.030992
TAPBPL	0.616309519	0.016874
LRPAP1	0.616371862	0.048004
TCEAL3	0.616650293	0.039646
PBXIP1	0.61673443	0.02811
ANKFN1	0.616836157	0.035092
MAGEH1	0.617580694	0.00685
LOC101928152	0.6177318	0.024522
CD19	0.618190586	0.005397
PMP22	0.618802711	0.04712
RAB39B	0.620209491	0.042423
CYP2R1	0.620230326	0.007953
CCND2	0.621116477	0.002019
DAPP1	0.621621938	0.043224
CPNE5	0.622303565	0.018415
IGHV3-54	0.623424763	0.004879
HLA-DOB	0.624206106	0.002966
VAV1	0.6244408	0.044755
PPP1R16B	0.62465164	0.005103
MICA	0.625125947	0.008402
KIAA0125	0.625167544	0.000138
CD99L2	0.625271224	0.017673
SASH3	0.625393683	0.011703
IKZF4	0.625693317	0.016575

TGFB111	0.627055169	0.009505
ASB8	0.627142649	0.011672
RGS3	0.62725843	0.04335
ARHGAP30	0.627288403	0.008811
NXPE3	0.627336753	0.012349
CYLD	0.627450324	0.034581
HEBP1	0.627836923	0.038816
PEBP1	0.627873503	0.040679
C1R	0.627943877	0.014776
PTPRCAP	0.62804667	0.020628
EFR3B	0.628172965	0.032965
STAP1	0.628178274	0.002852
CKAP2	0.628255946	0.002628
SYNGR2	0.628658475	0.049607
TFEB	0.628762038	0.021715
CD3G	0.629095825	0.019543
ARHGAP27	0.629378136	0.011036
SPTB	0.62951695	0.036364
RP6-201G10.2	0.629910144	0.020893
FAM101B	0.630248382	0.031552
CYAT1 /// IGLC1 /// IGLV1-44	0.630485813	0.005669
N4BP2L2	0.630499265	0.029447
LTBP2	0.630808638	0.004467
MVB12B	0.63090006	0.046968
SEL1L3	0.631153577	0.016649
NCF1 /// NCF1B /// NCF1C	0.631389817	0.022672
NCF4	0.632523838	0.011978
LOC101930405	0.632540837	0.003915
CD53	0.632740197	0.015531

PCED1B	0.633053839	0.037264
EVL	0.633112454	0.016252
TRIM8	0.633585301	0.045613
LOC100294341 /// LOC101929774	0.634476906	0.030182
LINC00116	0.635059382	0.015705
DOCK8	0.635159182	0.025623
ZNF503-AS1	0.635180768	0.02054
ENTPD1	0.63542155	0.015737
LAT2	0.635811109	0.014804
TMEM132D	0.636086337	0.027156
SDC1	0.636595263	0.008872
DKK3	0.636723127	0.017272
TBC1D16	0.637704669	0.029765
CYP2E1	0.637940184	0.015774
SPOCK2	0.638134152	0.034791
ARHGEF6	0.638723676	0.026761
CCL22	0.638918307	0.030289
IGHA1	0.639277418	0.003233
MDP1 /// NEDD8-MDP1	0.63933675	0.038502
IGKC /// IGKV1-5 /// IGKV1-5 /// IGL@	0.639540068	0.008422
FZD8 /// MIR4683	0.639826443	0.023918
FKBP11	0.639969801	0.000923
ATRX	0.639984349	0.048472
NT5E	0.640541406	0.041317
PRELP	0.640663409	0.010256
SEPW1	0.640923161	0.043648
CADM4	0.642221963	0.015039
C1S	0.642723053	0.00935
IGLC1 /// IGLV2-5 /// IGLV2-5	0.642726714	0.000439

SHROOM4	0.642949562	0.033127
SELPLG	0.643235378	0.036499
BCAS4	0.643284684	0.005451
JADE2	0.643897262	0.021287
IDS	0.64438963	0.004752
mir-223	0.644462093	0.046484
AEBP1	0.644583432	0.003875
MTDH	0.644984058	0.034435
STK17B	0.645352043	0.034939
MSN	0.645361792	0.022988
IL21R	0.646825358	0.026984
RASGRF2	0.646880024	0.019786
PYHIN1	0.646905179	0.015235
PLCG2	0.647137483	0.010828
KLHDC4	0.647146955	0.046073
IGHD	0.647233618	0.028698
LTBP1	0.647244444	0.021056
MLXIP	0.647575657	0.034879
LOC100996724 /// LOC100996761 /// LOC101929792 /// LOC101930416 /// PDE4DIP	0.647859433	0.047198
PPAPDC1B	0.649006669	0.023187
MTDH	0.649161691	0.043657
SEMA6D	0.649223546	0.004652
YPEL3	0.649262543	0.028305
CA11	0.649563641	0.005544
LTBP2	0.649639715	0.013614
CCDC151	0.649669317	0.040092
CMC4	0.65046624	0.02689

PAIP2B	0.650775117	0.015696
SBF2	0.650859812	0.035983
AL928768.3 /// Ig alpha 1-[alpha]2m /// IGH	0.651879129	0.000841
TAPBPL	0.652467291	0.0187
CD79A	0.654108295	0.001218
CMC4	0.654513563	0.040983
GLCC11	0.655754299	0.00465
VDR	0.656002116	0.015879
LOC101060604 /// SLC7A5P1 /// SLC7A5P2	0.656190256	0.026125
TMEM156	0.657106791	0.016567
GVINP1	0.657455418	0.044262
IGLV6-57	0.658112567	0.00531
ST6GALNAC4	0.65830619	0.03119
ELL2	0.65909989	0.043933
MOB1B	0.659287542	0.030584
ZBP1	0.659572314	0.007614
TMEM129	0.659655173	0.015712
KMT2A	0.659663655	0.047834
GPR155	0.659883566	0.011591
PPM1K	0.660091298	0.001979
EBF1	0.660734495	0.025362
TIMP3	0.660922794	0.015479
ANKRD36BP2	0.661206145	0.000844
COBLL1	0.661370294	0.048399
PMP22	0.662469864	0.016595
ADARB1	0.662875052	0.045461
KIZ	0.664419329	0.024821
MCC	0.664480628	0.002527

FAM198B	0.664770249	0.004104
HSPB8	0.664926124	0.001401
TNFRSF25	0.665144314	0.023697
ST6GALNAC4	0.665235232	0.015917
FAM129A	0.665617032	0.001447
MEG3	0.665803301	0.028133
TK2	0.666630524	0.035546
LRRC23 /// RPL13P5	0.666988836	0.016888
PECAM1	0.667443719	0.04261
FLVCR2	0.667491536	0.012387
MAN1A1	0.667681174	0.011913
SLC1A4	0.66772476	0.021769
SYNPO2	0.667831214	0.036062
MS4A1	0.668220225	0.022908
PIGG	0.668783028	0.046067
ZNF532	0.668846953	0.033782
TAPT1	0.669129025	0.020141
PPAPDC1B	0.669243831	0.0346
JAM2	0.669257863	0.0366
CD1D	0.66985475	0.015338
GAPT	0.670059319	0.024524
NFATC2	0.671078892	0.020866
IL27RA	0.671309108	0.01942
NEDD4L	0.671852528	0.003409
TTC39C	0.671964106	0.00873
SYNE1	0.672028224	0.022836
EPC1	0.672161525	0.042265
LTBP3	0.672487323	0.026712
CCPG1	0.672710646	0.041759

UVSSA	0.673000366	0.023289
PDE4A	0.67308563	0.013262
GPX7	0.673587342	0.009679
B4GALNT3	0.673793391	0.013438
FKBP11	0.673973822	0.004018
ZNF275	0.674356992	0.027254
NOD2	0.675339638	0.044917
CORO1A	0.675839842	0.040623
TMEM116	0.677392883	0.048654
IGHA1 /// IGHG1 /// IGHM	0.677398098	0.006043
SLC44A1	0.677477309	0.04641
GPR155	0.677828523	0.032605
LPXN	0.677940875	0.034821
DNAJB9	0.678114625	0.032605
NXPE3	0.678437875	0.01708
ARMCX3	0.678596181	0.036618
ZNF532	0.678897098	0.041962
CDH11	0.679147229	0.010445
DERL3	0.680105584	0.001894
FCRL2	0.680189215	0.030651
RAB39B	0.680210169	0.029276
LOC101928789 /// SP140	0.680315326	0.02605
ELMO1	0.680357628	0.029589
TSTD1	0.681190186	0.016659
KDSR	0.681600664	0.014285
RFTN1	0.682276894	0.023288
TSC22D3	0.682691041	0.014559
GPR68	0.682854276	0.035262
IGHA1 /// IGHV4-31	0.683125038	0.002132

GRIN2A	0.683630684	0.041638
CCR6	0.684206044	0.036585
ZNF710	0.684295627	0.046785
PPP1R16B	0.68433224	0.032585
DNAJB9	0.684884261	0.043191
CDH11	0.684993215	0.000872
MMRN2	0.685553875	0.049781
FNIP2	0.686410723	0.025849
PXMP4	0.68702146	0.023734
FBXL17	0.688726182	0.027569
DKK3	0.68911139	0.015667
RBM41	0.689514789	0.0278
FLNA	0.689746738	0.026674
ARL15	0.689790083	0.044712
LTB	0.690104174	0.012275
CPXM2	0.690238918	0.007897
PLS3	0.69045678	0.04514
NCF4	0.690500857	0.031321
IGH /// IGHA1 /// IGHA2 /// IGHD /// IGHG1 /// IGHG3 /// IGHG4 /// IGHM /// IGHV4-31	0.69073547	0.004903
ZNF25	0.690778899	0.042695
DKK3	0.690956674	0.013394
KLHL6	0.691351277	0.028981
BCL11B	0.691436927	0.014633
SSPN	0.692200496	0.010746
BHLHE41	0.692919777	0.006323
MOB3B	0.693115859	0.031967
GAA	0.693630774	0.04742

LOC100505715	0.693748873	0.034001
ZNF44	0.693844476	0.039208
CSF2RB	0.694107957	0.007736
LTBP1	0.69416278	0.029387
CST4	0.695052203	0.02192
ZC3H12D	0.695309829	0.020211
OLFML1	0.695749831	0.049208
LOXL1	0.696073981	0.045775
IGHM	0.696837155	0.003592
PAX5	0.698098622	0.005275
WISP2	0.698313268	0.032275
AHSA2	0.698748003	0.044857
CPQ	0.699169591	0.040027
KLHL5	0.699352216	0.015538
KAT2B	0.699625925	0.049377
KDSR	0.699664282	0.030075
TAGAP	0.699857301	0.037064
COL10A1	0.700022954	0.001172
PPAPDC1B	0.70023711	0.023562
RAB40B	0.700261731	0.024188
MDFIC	0.700456168	0.024082
GOLGA7B	0.701352618	0.032885
KCNQ1	0.702162845	0.035221
TACC1	0.702917852	0.011464
PIK3CG	0.703332714	0.013548
ITGBL1	0.703661193	0.006085
IGHG1 /// IGHM	0.703672951	0.026457
OGT	0.704212805	0.037382
UBE2QL1	0.704378914	0.009151

CYP2U1	0.704813548	0.025178
SNX20	0.704894955	0.035573
ITGAL	0.705062213	0.014275
ACOX2	0.705409234	0.006412
KLHL6	0.705423001	0.003704
COL8A2	0.705452587	0.005112
ANKRD44	0.705832556	0.017763
GPR18	0.706203317	0.03474
C3orf70	0.706383536	0.003778
SORCS2	0.706516427	0.046916
LINC00537	0.706754688	0.039272
SVIL	0.707841669	0.046115
FSTL1	0.708009038	0.04769
IKZF4	0.708512511	0.02723
MKNK1	0.7094997	0.047788
KCNN3	0.709738174	0.010551
NUAK1	0.710347191	0.016533
NLRC3	0.71070076	0.036602
ST3GAL5	0.710999463	0.00381
IGLV1-44	0.711165279	0.001572
ITGB2-AS1	0.712154002	0.007403
GPAM	0.71291922	0.039106
ANKRD36	0.713144543	0.035023
FBN1	0.713271059	0.025144
HES1	0.713327432	0.013969
FZD8 /// MIR4683	0.713815514	0.034671
CDC25B	0.713924719	0.038429
MIR100HG	0.714197283	0.009281
EPG5	0.714520981	0.025567

DHTKD1	0.714563102	0.034805
LOC283357	0.714683033	0.036271
PDGFRL	0.714851434	0.00865
HCLS1	0.715456116	0.032335
BCL2	0.716163344	0.010178
BPTF	0.716539292	0.033262
IGHA1 /// IGHA2 /// IGHD /// IGHG1 /// IGHG3 /// IGHM /// IGHV4-31	0.716686697	0.001253
ERLIN2	0.716764114	0.030117
DRAM1	0.717429219	0.012732
SGCD	0.717544254	0.044927
ETV5	0.717654349	0.045404
CLIC2	0.718328815	0.004577
EML4	0.718366866	0.04895
PARM1	0.718391677	0.009069
MR1	0.718682638	0.043356
MEF2C	0.718855531	0.03952
SESN3	0.718922112	0.003865
SLC1A4	0.719331868	0.038537
BCL11B	0.719521821	0.010084
MOB3B	0.719659409	0.03062
LINC00964	0.720771712	0.038039
CCDC69	0.720819962	0.019255
SLCO3A1	0.722735816	0.033029
IGH /// IGHA2 /// IGHD /// IGHG1	0.722841044	0.011082
EPCAM	0.723032494	0.04181
GLCCI1	0.723194111	0.018719
FGFR1	0.723276038	0.049987
MZB1	0.724552562	0.000646

HSPA1A /// HSPA1B	0.725211453	0.044666
SLC1A7	0.725412306	0.04401
CCDC85A	0.725414876	0.01773
HIP1	0.725699995	0.018362
LOC101929272	0.72633968	0.002984
IGK /// IGKC	0.727315404	0.0084
ID3	0.727800526	0.037232
ENPP2	0.728087392	0.031944
IGHA1 /// IGHG1 /// IGHM /// IGHV4-31	0.728674074	0.014929
DPT	0.728801189	0.020735
AHSA2	0.729118853	0.04414
TRBC1	0.730153158	0.010872
N4BP2L2	0.730221511	0.037613
PCSK5	0.730279355	0.040623
PRDM1	0.730485907	0.032078
TRBC1	0.730832846	0.017824
BLNK	0.731441975	0.016632
ANTXR1	0.73212654	0.04077
IDS	0.732290152	0.047545
HOXB2	0.732870723	0.041277
IGLL3P	0.733034553	0.017997
IGK /// IGKC	0.733125695	0.011808
RASSF4	0.733202014	0.042194
FCRL5	0.733463512	0.006022
DENND5B	0.733620416	0.048898
NRP1	0.733752991	0.029112
SLC43A3	0.733885357	0.024791
IGHA1 /// IGHG1 /// IGHG3 /// IGHM	0.734233025	0.001945
GEM	0.73591768	0.014031

RGCC	0.73608302	0.046863
FAM129A	0.736347628	0.014534
ANKHD1	0.736371734	0.028629
NCKAP1L	0.737044026	0.031818
PTP4A3	0.737300737	0.034613
CADM1	0.737904423	0.004804
RAPGEF6	0.738050148	0.013647
GUSBP11	0.738317379	0.020668
PAPLN	0.739084875	0.035511
CHRDL2	0.739092362	0.029606
TAGAP	0.73939679	0.026448
ITGBL1	0.739532898	0.013305
IGKC	0.739549385	0.01624
CYP7B1	0.739659356	0.043916
TDRP	0.739751442	0.027495
MCOLN2	0.739830678	0.03875
FAM89A /// MIR1182	0.741649891	0.03185
IGHA1 /// IGHG1 /// IGHM	0.742321724	0.001972
LOC100293211	0.744066718	0.004428
IGLV1-44	0.744347146	0.001158
PRKCB	0.744547784	0.041541
IGHG1 /// IGHM	0.744903432	0.027325
MTSS1	0.745231485	0.024821
RGS8 /// SDHAP3	0.746302892	0.006709
IL27RA	0.746359934	0.011323
TRAF3IP3	0.747199071	0.029006
SYNPO2	0.747430674	0.03226
CXCL12	0.747571828	0.023463
ADRB2	0.747754828	0.019667

MPHOSPH9	0.748630844	0.037269
COL10A1	0.749532598	0.002308
IGJ	0.750020923	0.002408
KREMEN1	0.750420574	0.028269
KLHL5	0.751514969	0.04069
CR2	0.751802023	0.016571
BHLHE41	0.752676684	0.047468
TSIX	0.752900209	0.035599
SLAMF7	0.753227397	0.011653
IGLC1	0.753298984	0.024553
GGTLC1	0.753399656	0.027366
MIR646HG	0.753719269	0.020256
IKZF1	0.75396796	0.042949
PPAP2C	0.754465895	0.033443
SIAE	0.755387765	0.025072
COL8A1	0.755528695	0.034181
IGK	0.755670421	0.001261
AC128677.4 /// CH17-132F21.1 /// IGKV1OR-1 /// IGKV1OR-1 /// IGKV1OR10-1 /// IGKV1OR10-1 /// IGKV1OR2-2	0.756377408	0.004393
KCNS3	0.757601021	0.003385
C8orf4	0.75901599	0.003775
IGHA1 /// IGHV4-31	0.759315636	0.002759
IGHM	0.759789672	0.004093
MZB1	0.760638816	0.000643
BTG2	0.761871264	0.044477
FLJ32255	0.762306352	0.037357
CELF2	0.762634307	0.034757

GAB1	0.763990291	0.038148
HLA-DPB2	0.764247037	0.040209
TNFRSF17	0.764374527	0.00086
EPHA3	0.764496178	0.003973
CELF2	0.764640564	0.021807
TRBC1	0.764725246	0.023265
DOCK8	0.765227282	0.043745
FCRL5	0.766895855	0.001288
SFRP4	0.767860164	0.003178
IGHA1	0.768507494	0.00185
LPCAT1	0.768621083	0.038886
SLAMF7	0.769338549	0.037422
TFAP2C	0.76953408	0.041152
CYSLTR1	0.76974212	0.029594
SFRP4	0.771236563	0.004837
CADM1	0.77159115	0.007609
ITGBL1	0.771826151	0.03798
IGHV3-73 /// IGHV3-73	0.773310649	0.011282
TMEM43	0.773316629	0.048109
GLS	0.774224768	0.023186
ATP11A	0.774279805	0.048481
IGK /// IGKC	0.775869896	0.004835
FCRL5	0.776006851	0.001072
GNAS	0.776129359	0.022746
TNFAIP2	0.777222311	0.048697
CKAP2 /// IGLC1 /// IGLV1-40 ///	0.777994678	0.001557
CADM1	0.778191278	0.010603
TNFSF15	0.778519576	0.008726
C16orf54	0.778771538	0.011285

PAPPA	0.779421739	0.044527
IGHG1 /// IGHM	0.779592171	0.004731
NAPSB	0.780077625	0.008259
IGLL5	0.780827008	0.001515
SPINK2	0.781340373	0.041663
IGH /// IGHA1 /// IGHA2 /// IGHD ///	0.782948806	0.003803
PRKAR2B	0.784100244	0.015396
ANKRD36BP2	0.784257777	0.000489
FAM65B	0.784688327	0.045201
FILIP1	0.785662621	0.030169
SSPN	0.786840955	0.014076
MEG3	0.787568258	0.042633
IGH /// IGHA1 /// IGHD /// IGHG1 ///	0.787615778	0.0027
IGKC	0.788543826	0.046314
STK4	0.789855006	0.016113
ZBTB20	0.789966813	0.046964
FILIP1	0.790228087	0.021236
MPP7	0.791689607	0.022318
SOCS2	0.791719308	0.047365
RAPGEF6	0.791727517	0.04827
IGH /// IGHA1 /// IGHA2 /// IGHD ///	0.792057241	0.008384
CKAP2 /// IGLC1 /// IGLJ2 /// IGLJ2 ///	0.792175865	0.002216
CD55	0.792394523	0.035004
ZBTB20	0.792781978	0.032986
KCNJ15	0.794713106	0.04925
DUSP6	0.795532885	0.033372
ESR1	0.795555462	0.013584
LRRC15	0.796404481	0.01797
MIR29B2 /// MIR29C	0.796869169	0.035416

ERC1	0.797312852	0.03738
DSEL	0.799238991	0.016602
IGHA1 /// IGHA2 /// IGHD /// IGHG1	0.799696749	0.009178
LINC00086 /// LINC00087	0.799735794	0.034459
IGK /// IGKC	0.800620892	0.006971
IGLJ3	0.801958905	0.007117
MFAP5	0.802168989	0.036072
IGKC /// IGKV4-1 /// IGKV4-1	0.80296793	0.00042
CCND1	0.804369198	0.026153
HABP2	0.805379774	0.02254
IGKC	0.805462519	0.009515
PLCB1	0.805913069	0.020663
IGKV1-37 /// IGKV1-37 /// IGKV1D-37	0.806059329	0.005861
EFEMP1	0.806172793	0.041714
TRIM2	0.806697618	0.031108
BMS1P20	0.80722973	0.002788
FILIP1	0.807309644	0.02497
FMO3	0.807545762	0.035696
IGLC1 /// IGLJ3 /// IGLV2-14 /// IGLV@	0.807551196	0.002148
IGHG1 /// IGHM	0.807670438	0.013724
IGLV1-44	0.808167807	0.002699
SESN3	0.809884218	0.044004
CKAP2 /// IGLJ3 /// IGLV3-19 /// IGLV3-19	0.810641926	0.021423
NT5E	0.811326553	0.04208
IGLJ3	0.812238736	0.008856
ANKRD20A1 /// ANKRD20A11P ///	0.812547675	0.046026
PCSK5	0.812629867	0.041213
BEAN1	0.813112338	0.030872

IGKV1OR2-108 /// IGKV1OR2-108	0.814641254	0.011272
BEX5	0.814774564	0.019589
CKAP2 /// IGLC1 /// IGLJ2 /// IGLJ2 ///	0.815107074	0.013303
CX3CL1	0.815150361	0.032997
IGH /// IGHA1 /// IGHA2 /// IGHG1 ///	0.818638445	0.006943
IGHA1 /// IGHD /// IGHG1 /// IGHG3	0.818872826	0.005724
IGHA1 /// IGHG1 /// IGHM	0.818910154	0.003011
PAX7	0.819063481	0.014151
CKAP2 /// IGLC1 /// IGLV3-1 /// IGLV3-1 /// IGLV@	0.819145864	0.01435
FILIP1	0.819562422	0.02353
SFTA2	0.821006633	0.004559
IGH /// IGHA1 /// IGHA2 /// IGHD /// IGHG1 /// IGHG3 /// IGHG4 /// IGHM /// IGHV3-23 /// IGHV4-31	0.82260562	0.005109
IGHM	0.822908116	0.008722
IGLV1-44	0.823107335	0.009427
IGHG1 /// IGHG2 /// IGHM /// IGHV4-31 /// MIR8071-1 /// MIR8071-2	0.823576309	0.046178
IGKC /// IGKV2-28 /// IGKV2-28 /// IGKV2D-28 /// IGKV2D-28	0.826797776	0.006803
IGHM	0.826982984	0.004773
IGK /// IGKC	0.828599653	0.008922
IGHM	0.829090605	0.009557
IGK /// IGKC	0.829296539	0.006454
IGHD	0.830314501	0.017467
IGK /// IGKC	0.831192884	0.020601
IGHD	0.832248365	0.0144
IGLJ3 /// IGLV3-19 /// IGLV3-19	0.832713364	0.014646

HLF	0.833016936	0.041453
CCND1	0.833827534	0.037176
B2M	0.834286303	0.045561
IGK /// IGKC	0.834286543	0.01271
GPR37 /// SEL1L2	0.836216591	0.024434
IGLC1 /// IGLV3-10 /// IGLV3-10	0.837583521	0.025022
S100B	0.837994051	0.049066
KRT15	0.838937023	0.035345
HAGLR	0.839115916	0.014634
IGKV1-17 /// IGKV1-17	0.839289917	0.012738
LOC101928620 /// POU2AF1	0.840020868	0.014287
TYMP	0.841422805	0.042815
FDCSP	0.84639252	0.036797
CKAP2	0.846574152	0.012095
HOPX	0.847395002	0.047487
MS4A1	0.852189268	0.046083
IRX2	0.854919989	0.002848
HS6ST2	0.85545699	0.042327
SLC1A7	0.85846512	0.042169
HS6ST2	0.860490754	0.04406
HLA-DQB2	0.863673446	0.03739
IGHD	0.877690321	0.009652
SFTPB	0.87998295	0.047044

GSE29013

Gene name	HR[exp(coef)]	P-value
MIR4691 MIR7113 NDUFS8	0.01892	0.029992
TOMM40	0.027	0.011673

LMF2	0.027716	0.024275
S1PR5	0.02809	0.011215
ASMTL-AS1	0.035993	0.001336
CYB561	0.046823	0.011238
LUC7L3	0.046988	0.009014
NAALADL1	0.048336	0.005834
PHACTR1	0.051966	0.00738
RP11-402D21.2	0.054314	0.014509
TLDC1	0.05499	0.007221
MID1IP1	0.061181	0.006742
SRC	0.061685	0.013387
ZDHHC7	0.063604	0.01172
COL9A2	0.064587	0.018277
FAM96B	0.066482	0.013924
MTERF4	0.066803	0.003572
GSTM5	0.067662	0.040767
MMD2	0.068591	0.002953
KIF1B	0.069202	0.036439
FAM186B	0.069218	0.00627
APPBP2	0.070958	0.047388
ELF2	0.071681	0.029236
NDOR1	0.072523	0.014031
TMED5	0.072672	0.012705
VIPAS39	0.074211	0.002645
R3HDM2	0.074853	0.014756
ZNF615	0.075067	0.003808
SORL1	0.075558	0.014889
RP11-649A18.7	0.081711	0.013636
LOC101929177	0.082064	0.030333

SDHAP1 SDHAP2	0.08245	0.043178
ARL3	0.083041	0.014902
SGSH	0.084149	0.033289
SOCS1	0.088231	0.008327
ELK4	0.090853	0.019956
UBE2J1	0.092302	0.030824
PHF20L1	0.092362	0.047567
POFUT1	0.095852	0.00199
SKP1	0.095868	0.007403
HABP4	0.098168	0.003947
PSMG2	0.098802	0.008867
GPR98	0.099303	0.005055
ZDHHC16	0.099423	0.03288
JAM3	0.102662	0.03955
LINC01128	0.103633	0.023299
LOC284454 MIR23A MIR24-2	0.104846	0.015294
SLC12A7	0.107236	0.036036
BAHD1	0.108972	0.007589
CREB3L2	0.109082	0.034703
KMT2C	0.111729	0.022281
DBT	0.112256	0.045922
HECTD2	0.113701	0.01042
DSTYK	0.114236	0.010226
POLR2C	0.114915	0.014085
KLC2	0.118229	0.010319
NCOA6	0.118321	0.023628
CEP95	0.12011	0.027044
ZXDA ZXDB	0.123899	0.033656
AKIP1 NUA2	0.125361	0.005762

PDSS2	0.126103	0.040839
COQ7	0.126997	0.00104
TSPAN9	0.127277	0.049726
FBRSL1	0.12774	0.030957
PLEC	0.130215	0.036259
CAMP	0.130349	0.030369
ST3GAL2	0.131744	0.007497
C6orf89	0.131853	0.016346
C6orf62	0.132111	0.019752
SNRPA1	0.132151	0.037498
SPATA2L	0.132629	0.031977
SZRD1	0.132689	0.04595
TBCK	0.132987	0.009768
THUMPD3	0.134479	0.008198
NFS1	0.135898	0.007641
ATG12	0.136298	0.048212
RNF146	0.138655	0.037731
CCDC157	0.139111	0.003217
FGFR1OP	0.139545	0.023209
ALKBH7	0.140843	0.023936
OVOL3	0.141008	0.024377
SLC12A9	0.145519	0.043506
FTSJ3	0.147232	0.034287
PVRL4	0.149989	0.007088
HDLBP	0.150997	0.037202
NCSTN	0.151571	0.040109
COX3 LOC101929612	0.154453	0.011082
FAHD2CP	0.156493	0.02428
RUFY3	0.156781	0.028555

ZBED5-AS1	0.15689	0.015165
PAIP1	0.157135	0.008242
SRR	0.157876	0.031365
FICD	0.159012	0.020888
PTPRC	0.161216	0.006475
INPP4A	0.161808	0.044058
CUL9	0.16299	0.034089
NAB2	0.163923	0.030606
SIK3	0.166153	0.007245
SEMA3C	0.167849	0.01223
GNG7	0.167897	0.029072
MIRLET7D	0.16813	0.023778
EML4	0.16887	0.016367
CTNND1 TMX2-CTNND1	0.170962	0.007613
WIPI1	0.173485	0.029225
CYFIP1	0.17402	0.019644
RAPGEF2	0.174062	0.008527
AQP11	0.174402	0.007174
FBXO42	0.177513	0.01021
GDAP1	0.177524	0.019161
BC047484	0.177901	0.023388
HADH	0.178213	0.046345
FAM205A FAM205B	0.178474	0.006918
BTBD9	0.178556	0.025101
MKL1	0.178972	0.009314
ACBD5	0.179695	0.044159
ZFP62	0.179806	0.046814
SLC25A51	0.180732	0.026793
LGALS8	0.181358	0.016006

SSH3	0.181537	0.023154
MYL12B	0.182816	0.025732
DKFZp434L192 LOC100653233	0.183328	0.035272
CYHR1	0.183803	0.007298
SOX13	0.184002	0.011572
ZSWIM4	0.184324	0.012436
GGTLC1	0.184351	0.022316
FAM228B	0.185006	0.049215
LINC00868	0.186953	0.034974
MORF4L2-AS1	0.187421	0.005306
MAN1A2	0.187519	0.023491
RNF122	0.191167	0.029898
DHX32	0.191749	0.016595
HERC1	0.193175	0.011957
WAC	0.194178	0.017275
NPAS3	0.19564	0.029744
CABP1	0.196535	0.018317
DYNLL1-AS1	0.197019	0.02119
CABLES1	0.197933	0.003117
KIF5B	0.198116	0.037842
CBX3	0.198517	0.016315
PPP1R12B	0.200357	0.005155
KIAA1549L	0.2005	0.002186
CTPS2	0.201086	0.00564
LOC102725454	0.201193	0.045272
TBKBP1	0.201472	0.011674
LAT2	0.202169	0.01157
TCEB1P3 TCEB1P3	0.20277	0.019384
USP2	0.203055	0.014834

ZSCAN32	0.203254	0.046671
IMPACT	0.203499	0.034378
CIT MIR1178	0.203524	0.005824
BNIP3L	0.203653	0.046359
MALAT1	0.203964	0.025592
C11orf83	0.205505	0.015748
RANBP2 RGPLD1 RGPLD2 RGPLD3 RGPLD4 RGPLD5 RGPLD6 RGPLD8	0.205532	0.017494
MDM4	0.206434	0.001957
ORF1	0.206628	0.019389
FBXW9	0.207619	0.035687
ATF6	0.208653	0.046183
NPB	0.210349	0.034383
EPB41L5	0.210387	0.021336
RANBP1	0.211053	0.02766
INADL	0.214221	0.041107
SIPA1L3	0.214571	0.043604
DRICH1	0.215107	0.027412
KLF7	0.216525	0.007707
COX6CP1 COX6CP1	0.217708	0.020985
LGALS3BP	0.218159	0.012297
MAN2A2	0.218258	0.020503
AK096592 YLPM1	0.219622	0.0217
GGT1 GGT2 GGTL1 GGTL2	0.220455	0.004648
LINC00853	0.220474	0.025396
PSMD1	0.221391	0.0482
DEF8	0.222489	0.027184
HDLBP	0.223421	0.027157
ASH1L	0.223687	0.007064

RALB	0.223871	0.008363
C14orf159	0.22415	0.011576
LHX4-AS1	0.224238	0.041175
BC039485 LOC284930	0.224859	0.017
LOC283070	0.225543	0.003981
ANK1	0.225938	0.0175
EHMT1	0.225975	0.035144
MARK3	0.22772	0.044232
HCG18	0.229264	0.045312
NECAB1	0.229906	0.020928
LOC101929681	0.229953	0.008301
ZNF573	0.232944	0.043057
USP32 USP6	0.233575	0.02093
FBXL12	0.233586	0.037563
LOC100134445	0.235217	0.017868
RBFOX2	0.235341	0.038561
NIPAL2	0.235443	0.040352
LYRM2	0.236123	0.010325
JAG1	0.236889	0.041499
VLDLR	0.237136	0.0081
SPATA7	0.238163	0.00329
SH3TC2	0.239304	0.027985
MIA-RAB4B RAB4B	0.240357	0.026307
SPIRE1	0.241043	0.041067
RAB27A	0.24192	0.03737
LOC101926967	0.24195	0.019649
RASSF8-AS1	0.243412	0.04558
NAAA	0.243779	0.010388
TMEM222	0.24542	0.036246

PHKB	0.24598	0.04457
MEGF11	0.246439	0.042491
LINC00652	0.246569	0.028877
NDRG2	0.247238	0.008367
PCGF2	0.247749	0.038717
PSMB8-AS1	0.247836	0.005142
PRAMEF1 PRAMEF2	0.248127	0.004011
MSH5-SAPCD1 SAPCD1	0.248615	0.034184
PYCR1	0.249085	0.017923
CTA-445C9.15	0.24931	0.00284
PAGR1	0.250563	0.0294
HOXD9	0.251457	0.044153
SPAG9	0.251629	0.015092
VIPR2	0.251952	0.043798
RBM26	0.252102	0.037315
TRPV5	0.254259	0.013346
SLC35B3	0.254927	0.030699
MTA1	0.255028	0.043033
ZSCAN10	0.255205	0.019152
PRRC2C	0.255219	0.001415
HLA-DPB1	0.25558	0.004665
KCNC2	0.256989	0.019638
RAB4A SPHAR	0.257038	0.042463
NMRAL1	0.257624	0.007746
ENAM	0.257658	0.022261
CACNB1	0.258129	0.018909
OR10A4	0.25848	0.049263
MYL12A MYL12B	0.258852	0.018451
EEF1A1	0.260006	0.035187

TP53BP1	0.261087	0.024195
MUC1	0.261227	0.034471
CCDC134	0.261263	0.03825
NFIB	0.261627	0.047441
ADCY7	0.262245	0.018216
AKAP1	0.262338	0.038674
CTRB2	0.262432	0.016024
PPP1R2	0.262535	0.005979
FAM212B LOC101928718	0.263355	0.004292
WDR78	0.263582	0.037017
KDM1A	0.264539	0.022454
CALCOCO2	0.264689	0.01149
ENDOV	0.265243	0.020266
TCF7L2	0.265247	0.009009
ARL5A LOC101929356	0.266406	0.016017
RBP1	0.266931	0.045741
SUSD2	0.267738	0.035355
KLK15	0.267879	0.021522
RP11-272D12.1	0.268479	0.041051
SWAP70	0.269726	0.025637
UBTD2	0.269957	0.012781
TCF3	0.270158	0.035454
LMBRD1	0.270169	0.026217
TMTC1	0.270216	0.009051
NPR2	0.270316	0.026034
NFATC3	0.270497	0.023
YTHDC2	0.270794	0.028457
HID1	0.272184	0.030072
ARSD	0.272787	0.043956

PRODH2	0.273444	0.008048
MAVS	0.275375	0.043168
AQR	0.275401	0.039943
MALAT1	0.275564	0.010581
CYP39A1	0.275617	0.004626
C6orf48	0.276343	0.034482
PPP4R1	0.277406	0.029284
LOC284798	0.278862	0.014835
ZNF785	0.278979	0.010128
PRSS23	0.279664	0.026544
HMBS	0.279762	0.021672
ZBTB43	0.280759	0.023161
ZC3H3	0.28187	0.027189
SUPT7L	0.282196	0.037807
LOC101927051	0.285317	0.046751
MCM3AP	0.285684	0.037543
SLC35C2	0.285711	0.004842
BAIAP2	0.286379	0.0246
COX20	0.286858	0.002496
LINC01118	0.28753	0.018086
MAN1A2	0.288831	0.001436
NLRP8	0.290203	0.010203
FOXN3	0.290516	0.002802
LOC646484	0.291072	0.006528
ATXN10	0.291222	0.044549
PPP2R5E	0.291629	0.016848
EPB41L4A	0.29166	0.008973
STXBP2	0.291733	0.002438
SOCS7	0.292047	0.033778

HPSE2	0.292048	0.014748
TMEM64	0.292833	0.021635
MLH3	0.293104	0.02269
EIF1	0.293226	0.023276
LOC101929963 LOC101930299	0.293297	0.023449
GADD45B	0.293525	0.014457
CEP41	0.294058	0.004999
UNK	0.29507	0.040612
MAP1LC3A	0.295832	0.008359
KIAA0408	0.295838	0.038052
SLC43A2	0.296349	0.008087
KIF2C	0.296386	0.035352
PAWR	0.297898	0.043798
TLDC1	0.298884	0.028947
FNBP1	0.299122	0.030082
LINC00708	0.300014	0.024064
LOC101927292	0.300907	0.008365
FXVD6	0.301174	0.003922
ATP2A2	0.301416	0.001622
LOC101929668	0.303071	0.032271
ADAD1	0.304035	0.024384
PHF20	0.304965	0.007288
LINC00184	0.305127	0.029948
PNKD	0.305253	0.044349
TTY5	0.305651	0.002448
LOC101060424	0.306539	0.042066
EPHA4	0.307409	0.032836
CDC42BPA	0.308658	0.047045
RP3-334F4.1	0.309062	0.041183

COPS6	0.309086	0.004428
TPP1	0.309453	0.049696
CAMSAP1	0.309521	0.008814
LOC100996404	0.309895	0.027047
NDUFAF3	0.310265	0.005061
PARD3B	0.310941	0.035869
DENND1B	0.311334	0.020285
PPP1R11	0.311358	0.014672
DENND5B	0.31177	0.04305
LOC101928061 SERP1	0.312102	0.033975
TRO	0.312471	0.009479
PTP4A1	0.312598	0.039161
WNT6	0.312657	0.025471
RUFY2	0.312828	0.019967
SPPL2B	0.313116	0.003955
PDE3B	0.315279	0.04808
DNASE1	0.315914	0.010154
SLC17A1	0.316203	0.005227
RP11-50E11.3	0.316715	0.015343
SYDE1	0.317102	0.018235
UBN2	0.317339	0.027259
MYL4	0.317765	0.001321
LEPREL1	0.317834	0.039349
ZMYND8	0.317897	0.048117
ASCC2	0.31834	0.047218
SLC6A19	0.319055	0.018343
NUP214	0.319293	0.018469
DCAF10	0.319395	0.024962
NOL12 TRIOBP	0.319456	0.007165

LOC100507006	0.320641	0.012019
PUM1	0.322124	0.033237
IGHG1 IGHM LOC102725426 MIR8071-1 MIR8071-2	0.322682	0.019677
CLCN7	0.323979	0.039079
FBXL3	0.324753	0.007174
SOX10	0.32511	0.008513
TRMT61B	0.325293	0.036226
GLYAT	0.325794	0.008446
SIGLEC8	0.325812	0.007514
OCIAD1	0.325943	0.009179
VWF	0.327046	0.037064
LMF1	0.327897	0.01957
JKAMP	0.328248	0.025342
LAMA3	0.328556	0.041843
MTHFSD	0.328705	0.029731
DNAJB9	0.328715	0.039655
FAM224A FAM224B	0.328905	0.03162
IL5RA	0.329131	0.019247
ATP5G2	0.329198	0.049382
ABCD1	0.329844	0.020712
HS6ST3	0.330201	0.006678
PINK1	0.330724	0.009523
SMG6	0.330907	0.031882
BPIFB2	0.332091	0.012015
ITPR2	0.332145	0.009437
GAREM	0.33219	0.045338
SEMA3D	0.332587	0.019473
EIF5B	0.332933	0.022976

ZMYM6	0.333376	0.034486
TACR2	0.333558	0.009925
ITGA2B	0.333975	0.020737
THSD4	0.334028	0.032506
LINC01181	0.335007	0.013601
SUGP2	0.335613	0.018874
MERTK	0.336693	0.013665
A4GNT	0.336704	0.001227
ZFAND6	0.337834	0.039349
DDX31	0.337972	0.044651
KIAA1644	0.337978	0.037066
NADSYN1	0.338012	0.002554
LOC340085	0.338255	0.043171
NBPF20	0.339033	0.018653
RP11-757F18.5	0.339551	0.022874
AQP6	0.339775	0.04894
CLN8	0.340189	0.026586
RP11-95D17.1	0.34113	0.014568
CPNE6	0.341268	0.032635
WBSCR22	0.341411	0.034502
EXD3	0.341699	0.012088
PPIAP21 PPIAP21	0.342132	0.019122
CKAP5	0.34222	0.024738
ODF3	0.34262	0.017336
ARF3	0.343284	0.041486
SRC	0.343311	0.041407
NEDD9	0.343409	0.023239
LRRC37A3	0.343464	0.025463
PTN	0.344026	0.039546

TMEM185B	0.344532	0.028967
ZNF677	0.344909	0.006352
CALM1 CALM2 CALM3	0.345002	0.010508
IPP	0.345057	0.004626
COX4I1	0.346268	0.046289
TRPM6	0.346607	0.049536
AC011997.1 BC021693	0.346923	0.009661
CYP2W1	0.347985	0.010877
HAS1	0.349067	0.015912
TNXA TNXB	0.349169	0.020503
LRP2	0.349779	0.029411
PSEN2	0.350098	0.021376
PTGES	0.351138	0.025938
KLHDC10	0.351365	0.031328
ZSCAN30	0.35143	0.029191
GANC	0.351545	0.002855
PDYN	0.352405	0.013414
NGEF	0.352926	0.013605
ARID1A	0.35307	0.006041
PCID2	0.354327	0.005215
KANK1	0.354484	0.049971
RGS17	0.35455	0.010096
LINC00629	0.354579	0.025135
RALGAPB	0.354743	0.039113
SYT17	0.35477	0.032528
TRIM11	0.354896	0.015569
APC	0.354974	0.042332
RP11-196G18.24	0.355506	0.03341
BET1	0.355726	0.048071

HPS1	0.355995	0.021598
CD99L2	0.356057	0.015042
AP3S2 C15orf38-AP3S2	0.356465	0.041403
CABLES1	0.356755	0.02048
GAS6-AS1	0.358846	0.008747
CRELD1	0.358956	0.006515
PI4K2A	0.359289	0.041296
FBN3	0.359551	0.008701
GEM	0.359624	0.031322
ELP2	0.360572	0.049179
TRAK1	0.360706	0.029989
TBC1D24	0.361807	0.001041
AAED1	0.36211	0.008059
EHMT1-IT1	0.363132	0.030262
RFX1	0.363351	0.035009
GGCX	0.363424	0.04404
STXBP5-AS1	0.363524	0.008869
PDS5B	0.36447	0.013525
MICAL3	0.364912	0.02773
ANGPT1	0.365104	0.015722
ACAA1	0.365371	0.021216
GOLGA7B	0.365382	0.045979
TYMSOS	0.365412	0.049708
SDHC	0.366528	0.009562
WNT9A	0.366616	0.015827
PLA2G16	0.366753	0.031101
SLC44A2	0.366899	0.035218
TMED4	0.367061	0.005898
TNXA TNXB	0.367995	0.013656

CHD4	0.368616	0.040434
HIPK3	0.369347	0.001567
DNAJC27-AS1	0.369502	0.03675
ZNF682	0.369713	0.04793
GSX2	0.370408	0.025925
AAK1	0.370422	0.017878
KCNJ3	0.370586	0.01412
CYB5A	0.370914	0.0395
LOC101929232 PDCD6IPP2	0.371352	0.014291
CDC42BPA	0.371652	0.008491
LOC101927060	0.372185	0.048493
XAGE2	0.372703	0.014077
RP1-140C12.2	0.372837	0.016947
INADL	0.373358	0.036676
PP2672	0.375	0.033387
SPATA6	0.375587	0.02724
DNAJC27	0.375603	0.027305
UG0898H09	0.375628	0.037917
YAE1D1	0.376459	0.020591
MIR1204 PVT1	0.376659	0.02483
LINC00664	0.377623	0.005121
SERPINE2	0.377831	0.033855
LINC00965	0.378206	0.021304
NUP188	0.378473	0.010651
NRG2	0.378528	0.019717
FLJ33360	0.379294	0.008498
KEL	0.379319	0.021333
CPA3	0.380016	0.009274
USP36	0.380368	0.025374

MYOG	0.380781	0.027501
ANKS6	0.380787	0.01619
TMC8	0.381709	0.040787
FAM187B	0.381906	0.00946
LOC100509814	0.382545	0.012606
FOLH1 FOLH1B	0.382554	0.002336
ERCC6	0.382689	0.041187
ACAD10	0.382711	0.004694
ACOT12	0.383698	0.003994
MYOM1	0.383776	0.005971
GPR39	0.383812	0.016595
ARHGEF9	0.3839	0.008771
B9D1	0.384162	0.015263
PPP1R3F	0.384282	0.003411
CCDC176	0.384388	0.021086
PSPC1	0.384578	0.032386
SLC35F3	0.384861	0.00414
MGAT4A	0.384901	0.038118
AKT2	0.385041	0.024308
NFASC	0.385322	0.034985
AR	0.385375	0.009107
FAM118A	0.385412	0.030713
TAP2	0.38544	0.037341
CEP89	0.385892	0.014339
RP11-410L14.2	0.385907	0.007906
ADI1	0.386323	0.00286
PGRMC2	0.386458	0.04548
SEC24B	0.386648	0.029768
C5orf22	0.387089	0.002504

INTS3	0.387604	0.023314
LINC01016	0.388052	0.015785
DENND6B	0.388117	0.024331
FKBP14	0.38848	0.003835
ATP6V1E2 FLJ41757	0.388936	0.012158
IZUMO4	0.389016	0.026928
LRFN4	0.389128	0.049615
PHKG2	0.389461	0.031714
HNMT	0.389658	0.034336
POMC	0.389836	0.018594
FZD1	0.390387	0.018787
RP11-102C16.3	0.390746	0.045974
ACVRL1	0.390956	0.046017
POP4	0.391011	0.006009
B3GALNT2	0.39119	0.028339
FAM134C	0.391243	0.036823
AEBP1	0.391277	0.014048
SOWAHC	0.391301	0.004604
DBT	0.39165	0.023903
CCPG1 DYX1C1-CCPG1	0.391997	0.005023
ERICH1-AS1	0.392188	0.014946
FGF14	0.392574	0.004865
WASIR1 WASIR1 WASIR2 WASIR2	0.392751	0.013152
LOC101928418	0.39287	0.016444
RP11-209D14.2	0.393039	0.03934
WBP1L	0.393044	0.017105
DKK2	0.393081	0.047258
CAPN1	0.393167	0.014957

POM121	0.39409	0.018117
KCNN1	0.394939	0.042877
SMIM7	0.394951	0.007208
MYLK4	0.395328	0.010106
RHOXF1	0.395421	0.004925
PDPN	0.396054	0.014515
FLJ45513 TAC4	0.396558	0.037258
PRPF40A	0.396641	0.014241
HIC2	0.39724	0.021817
RNASE1	0.39735	0.013336
ARHGAP29	0.397589	0.035223
CD58	0.397726	0.01971
ALG5	0.398058	0.002947
FLI1	0.398117	0.04444
C1orf115	0.398569	0.009734
SLC9A1	0.398586	0.003498
MCFD2	0.399047	0.006338
GCGR	0.399103	0.014038
SPDEF	0.399261	0.017178
NR2F6	0.399375	0.02857
LOC150776 SMPD4	0.399936	0.016046
DMRTB1	0.40025	0.027514
TADA1	0.400357	0.037214
CRYGC	0.400381	0.004426
RBMS2	0.400384	0.011751
SMUG1	0.400426	0.049222
GPR125	0.400462	0.005209
FGFR4	0.400713	0.027972
PTGER3	0.401232	0.030706

FLJ45825	0.401594	0.036111
SLC25A35	0.401696	0.037954
ENPP5	0.402013	0.020205
DNAJA4	0.402439	0.016763
DHRS7C	0.402558	0.028878
GPR182	0.402622	0.018966
NRXN3	0.402656	0.02874
SH2D4A	0.403343	0.04548
MMRN2	0.403603	0.00958
UMPS	0.403712	0.032032
STAM2	0.404219	0.011763
MYOM3	0.404258	0.01773
POLR2F	0.40434	0.023182
BBS4	0.404504	0.047525
SERPINF2	0.404952	0.033153
CXCL5	0.405277	0.02804
TRMT5	0.405588	0.023265
ARRB1	0.405784	0.035728
SPOCK3	0.40615	0.0062
PPP1R3D	0.406414	0.011693
C17orf100	0.40676	0.042501
RANBP3	0.407094	0.010419
CERS4	0.407336	0.037785
GATAD2A	0.407427	0.042093
FTCDNL1	0.408464	0.015241
TAS2R7	0.408464	0.019143
LOC100130502	0.408831	0.019888
CPNE7	0.409701	0.004672
LOC646762	0.409841	0.011631

LOC283045	0.409855	0.009426
FLNA	0.410551	0.018326
KALRN	0.41091	0.02663
CALML5	0.410963	0.037845
WDR74	0.411036	0.04819
TBCD	0.411349	0.041448
RWDD2A	0.411439	0.015954
DYM	0.412376	0.023533
LOC100505774	0.41242	0.049446
HPGDS	0.412741	0.00694
PARVB	0.412911	0.00263
ANKRD36B	0.41296	0.048174
ABCB9	0.414235	0.025234
HTR7	0.414942	0.014659
SSTR2	0.415424	0.020327
LINC00167	0.415562	0.010578
ENSA	0.416165	0.027713
BPTF	0.41674	0.041039
KCNE4	0.416998	0.006455
FAM212B LOC101928718	0.417653	0.036591
ANXA2P1	0.417801	0.040204
EIF5A2	0.418045	0.026466
FGF1	0.41838	0.022661
PCED1A	0.418827	0.011946
NPY6R	0.419381	0.019586
PIGA	0.419642	0.035048
C2orf73	0.419777	0.04583
KCNJ5	0.419836	0.025257
ADAM18	0.419945	0.006438

SH3BGRL2	0.420502	0.028513
WFDC9	0.420567	0.034257
TOPORS-AS1	0.420593	0.030413
TMF1	0.420768	0.034369
ATP2B2	0.421332	0.041346
KCNJ16	0.422012	0.016133
LRRC27	0.422112	0.00643
ECE2	0.422156	0.029173
CSF2	0.423159	0.028657
SHROOM4	0.423888	0.037198
PDE7B	0.424095	0.038811
KIR3DL1 KIR3DL2	0.424218	0.044283
CR1	0.424658	0.014436
ABCC3	0.425561	0.026436
KIF5A	0.42616	0.011624
KCNH6	0.42716	0.030656
INPP5F	0.427584	0.021233
NR2F2	0.427776	0.041494
TMEM80	0.42835	0.034661
ITIH5	0.428432	0.023873
CCDC3	0.428728	0.006493
KIAA1683	0.429178	0.046029
CETN1	0.429298	0.027716
LOC100507283	0.429618	0.035949
VWA3A	0.429779	0.032742
IBA57	0.430122	0.009599
GAS6	0.430198	0.008216
FBP1	0.430804	0.041027
MALAT1	0.431069	0.026056

SPINT1	0.431352	0.037045
PRUNE	0.431654	0.01555
INO80D	0.431704	0.0141
AL110181 RP11-390E23.6	0.43189	0.028497
DHX16	0.43224	0.034724
DPF3	0.432271	0.032223
IFT57	0.43228	0.036973
BNIP1 C1orf56	0.432307	0.004227
LOC100288721	0.43244	0.044559
RP11-349E4.1	0.432544	0.048186
TMUB2	0.432703	0.049872
RAPGEF2	0.432757	0.008543
ING3	0.433478	0.043148
PSMD10	0.433531	0.040153
NFAM1	0.434003	0.01425
LOC102724611	0.434689	0.012001
BRD4	0.434847	0.049163
DCAF8	0.434859	0.017417
LINC01225	0.434866	0.035411
NPC1	0.435323	0.008602
ZNF750	0.435965	0.017382
CYP2B6	0.436154	0.025212
AC010145.4	0.436344	0.045975
NOVA2	0.436464	0.046076
LOC100133669	0.437506	0.02707
TUBGCP4	0.437765	0.020479
IGHG1	0.438983	0.047188
AMER1	0.439097	0.018574
MYOZ2	0.439374	0.008829

RP11-77H9.8	0.439545	0.032204
RAD54L2	0.439646	0.020374
MYH11	0.439924	0.018408
MGC40069 TRAC TRAJ17 TRAV20 TRDV2 YME1L1	0.440088	0.033116
PYROXD2	0.440365	0.013396
TTC17	0.440501	0.028407
GINS2	0.440767	0.049965
ATP4B	0.440872	0.027506
SELPLG	0.44092	0.026114
TTC30B	0.441014	0.0133
BAIAP2	0.441022	0.016923
NUP210	0.441354	0.013036
CTSA	0.441912	0.017801
HFE	0.442039	0.015972
RTN3	0.442202	0.022028
IDS	0.442753	0.015247
CAMK2D	0.444105	0.021552
ST8SIA3	0.444823	0.006175
LOC100287098	0.445492	0.047021
TUBGCP3	0.445806	0.011627
TPI1	0.445885	0.045735
EML1	0.446054	0.049691
RBM5	0.446151	0.043579
ST3GAL5	0.446616	0.046886
GOLT1A	0.447123	0.022844
FAM13B	0.447202	0.010824
TOLLIP	0.447331	0.032267
TET3	0.447397	0.031943

ASPH	0.447432	0.013237
MEX3D	0.447509	0.011706
MLLT10	0.448309	0.014642
MIP	0.448784	0.039361
TBC1D7	0.449154	0.024962
ANAPC1 LOC730268	0.449503	0.014115
CEP350	0.449825	0.0065
AMBN	0.449924	0.040233
PRPF3	0.450983	0.032336
LINC00471	0.45102	0.045263
MAPK1	0.451186	0.018761
PALM3	0.45129	0.018591
ABCA8	0.451397	0.015889
CLCN6	0.451765	0.006388
PPP2R5B	0.452019	0.010799
SLC25A2	0.452121	0.032587
PGLYRP4	0.452187	0.043031
NLRX1	0.452248	0.041345
ANKRD24	0.452392	0.011685
ZNF10	0.452945	0.02222
SCARA3	0.452993	0.045522
LOC101927038	0.453627	0.031948
POMT2	0.453903	0.006439
CCDC136	0.454012	0.007344
GLT8D2	0.454163	0.041148
BHLHE22	0.454617	0.034786
SPTY2D1-AS1	0.454968	0.008123
PARD6B	0.455491	0.038958
EXTL1	0.456035	0.026733

IGKC	0.456456	0.038418
C16orf58	0.456717	0.014105
MYO1H	0.45786	0.042417
LINC00636	0.458428	0.047993
TMEM237	0.458823	0.034232
LOC100506530	0.458898	0.020841
SPNS1	0.458966	0.040245
STX10	0.459182	0.048907
SLC1A7	0.459229	0.00987
MYF5	0.459563	0.029875
ARHGAP12	0.459697	0.006678
KCNQ1OT1 LOC101927338	0.45999	0.02541
MIR6741 PYCR2	0.460021	0.024941
BC037214 RP11-58G13.1	0.460143	0.004448
FBN1	0.460773	0.044854
OR2A20P OR2A9P	0.46078	0.038895
ZNF224	0.461121	0.026056
CTD-2520I13.1	0.461222	0.014944
NKD2	0.461617	0.032805
LOC441528	0.462504	0.022181
FGFR1	0.462581	0.038205
CTD-3193O13.1	0.462615	0.020439
LOC101928475	0.462643	0.015541
F11R	0.463135	0.006775
HIF3A	0.463234	0.016811
GRM7 LOC100996542	0.46332	0.032064
KCNB2	0.463329	0.024727
ITPR1-AS1	0.463481	0.005722
LDLRAD4	0.463982	0.013117

GFOD2	0.464211	0.016342
LOC157273	0.464583	0.032144
ATAT1	0.46467	0.028932
VPS72	0.465125	0.036613
RPS15A	0.466058	0.02984
THAP9	0.466138	0.042118
HSPA5	0.466747	0.048619
RP11-109E10.1	0.467073	0.015811
AP2A2	0.467304	0.032608
AAAS	0.467415	0.045339
LOC101929777 WNT3	0.467517	0.018007
IRAK1BP1	0.467539	0.017057
TACC2	0.46759	0.031982
ABO	0.467709	0.029119
KAL1	0.467718	0.022998
XRCC1	0.467724	0.010513
LINC00092	0.467981	0.041041
ZBTB5	0.468144	0.025323
PARP14	0.468205	0.015705
FLVCR2	0.468764	0.017595
C3orf35	0.468926	0.047977
CARHSP1	0.469217	0.034433
ACPP	0.469516	0.022295
MPPE1	0.469927	0.017565
LZTS2	0.470137	0.022605
UBXN1	0.470243	0.030865
OR14J1	0.470352	0.011882
OR8D1	0.470495	0.019421
BCAP29	0.471418	0.017231

VAPB	0.471865	0.047443
PHACTR2	0.471877	0.023272
HYAL3	0.472129	0.021496
ATXN2L	0.472176	0.030319
ZNF24	0.472225	0.046943
PPP3CB	0.472317	0.034815
CASP9	0.472518	0.021793
HRH4	0.472987	0.018022
CCSER1	0.473281	0.03638
MAP6	0.473353	0.022743
RP5-892K4.1	0.473417	0.004536
ZNF592	0.473767	0.027042
WDFY2	0.474197	0.014507
LOC100130111	0.474223	0.010653
CNIH3	0.474696	0.012177
FOXP1	0.475066	0.017795
ZNF644	0.475249	0.004584
SAR1A	0.476051	0.033545
ZBTB14	0.47611	0.047707
PRR20A PRR20B PRR20C PRR20D PRR20E	0.476158	0.028332
AC012499.1	0.476315	0.021408
NAGS	0.476471	0.005132
LINC00960	0.476481	0.010959
RP1-190J20.2	0.476624	0.04868
HSFY1 HSFY2	0.476788	0.046501
EOGT	0.476942	0.049611
EFHC1	0.47702	0.014477
GAGE1	0.477289	0.033599

NUCKS1	0.477923	0.031457
LOC101929591	0.478133	0.026361
PI16	0.478327	0.031071
AV8S2A1N1T hADV36S1 TCR-alpha TCR-alpha TCRA TRAC TRAJ20 TRAJ20 TRAV36DV7 TRAV36DV7 YME1L1	0.478518	0.013732
EFHC1	0.478562	0.010992
PSMG4	0.478611	0.041798
TBC1D22B	0.47866	0.035956
FSCN1	0.47921	0.014475
HGD	0.479696	0.022686
CCDC120	0.479706	0.015112
CCT8	0.481484	0.018994
VDAC1	0.481633	0.013886
SV2A	0.481808	0.035666
UPF1	0.482075	0.040436
IQCA1	0.482651	0.027137
PMM1	0.483075	0.0049
ZNF155	0.48329	0.027682
DHX36	0.483604	0.025494
ARSA	0.48399	0.032741
ANK1	0.484155	0.04273
MATN1-AS1	0.484726	0.009564
ARPC4 ARPC4-TTLL3 TTLL3	0.485121	0.041715
LOC100505609	0.485488	0.005252
TLR7	0.486038	0.027549
GJB1	0.486058	0.034704
SIX5	0.486222	0.026022

ZNF827	0.486541	0.04812
DPP6	0.486553	0.044749
GOSR1	0.486714	0.005798
RNFT2	0.486936	0.035641
DYNC1H1	0.487283	0.041627
PRO2214	0.4877	0.015435
GRIN2A	0.488128	0.043842
LOC283682	0.488211	0.005659
GLIPR2	0.488741	0.026943
RP11-663N22.1	0.488812	0.027761
LOC253573	0.488989	0.021858
LINC00112	0.489483	0.010332
PTGER3	0.489691	0.032375
PSG4	0.489892	0.020368
AFF4	0.490483	0.022613
OSBPL10	0.49068	0.044901
SLC5A5	0.490894	0.025204
IL4R	0.491074	0.035416
C1orf95	0.491256	0.006896
WDR61	0.491303	0.031926
RP11-131L23.2	0.491354	0.040673
SCAMPER	0.491453	0.044974
MRPS14	0.491566	0.032566
NAA30	0.491737	0.015341
KCNMB1	0.492021	0.038149
ADCK1	0.492416	0.027609
ZNF77	0.492734	0.028086
TRIP11	0.49299	0.041433
VAPB	0.493003	0.020689

RP4-647C14.3	0.493116	0.032751
TIRAP	0.493122	0.021586
STK38	0.493129	0.040077
LOC100506325	0.493316	0.028194
ZNF816 ZNF816-ZNF321P	0.493569	0.014764
LDLRAD4-AS1	0.493718	0.008571
SH3BP5-AS1	0.494371	0.005999
OSTM1	0.494523	0.019555
C6orf226	0.494661	0.047546
HCRT	0.494737	0.031715
TATDN1	0.495667	0.048003
RP11-1260E13.2	0.495967	0.024551
ITSN1	0.496449	0.034472
RFWD2	0.496707	0.006066
TSPAN16	0.496781	0.023845
TNFRSF19	0.497528	0.033796
NUDCD3	0.497586	0.031583
CLEC4GP1	0.497738	0.021991
GIMAP1	0.497802	0.022618
PARD3	0.498324	0.042277
ACSS1	0.498473	0.008828
TMEM223	0.498484	0.028847
RPS28	0.499664	0.037065
LOC255177	0.499787	0.04615
ENDOV	0.499978	0.029293
OSBPL10	0.500198	0.015345
ACE	0.50023	0.041651
GOLGB1	0.500637	0.022084
TRUB1	0.500772	0.046048

COBLL1	0.500784	0.039492
KIF22	0.501124	0.01809
LOC101929172	0.50119	0.049094
ARID4A	0.501311	0.024858
RBBP6	0.501432	0.034556
ONECUT1	0.501635	0.04232
KIAA1919	0.501854	0.033773
TANC1	0.502456	0.008413
PCDHB4	0.502822	0.004381
EMB	0.503263	0.017071
LOC728690	0.504213	0.044683
PTCRA	0.504218	0.040122
ZFP69	0.50452	0.023736
C1orf68	0.504817	0.043495
POU3F3	0.50523	0.023162
TRIM8	0.505309	0.03131
DAP	0.506164	0.046828
ART4	0.506166	0.005632
CD1B	0.50624	0.044926
AC010980.2 LOC440934 LOC440934	0.506264	0.023358
LRCH2	0.50644	0.021982
NUFIP1	0.507128	0.03198
FOXN3	0.507205	0.026506
SPINT1	0.507388	0.011957
DNMT3A	0.507422	0.048165
CLIP4	0.507497	0.034734
IFT140	0.507543	0.021511
ZNF3	0.507854	0.048396
MAVS	0.508023	0.015523

RBPM5	0.508253	0.01595
PTPDC1	0.508254	0.034698
CBLC	0.508308	0.031001
GSAP	0.508497	0.022986
LRRFIP1	0.508601	0.028679
SLC22A15	0.508833	0.013784
ZNF626	0.509197	0.038127
TAB3	0.509283	0.015881
ABCD2	0.509317	0.049484
LILRA1	0.50985	0.011273
ARRDC1	0.510369	0.049953
LRRC37A7P LRRC37A7P	0.510465	0.034023
SCN1B	0.510704	0.033104
MAP4K4	0.511538	0.023944
LOC101930324 NSF	0.511621	0.020593
UBE2D4	0.512057	0.034347
CPLX3	0.512136	0.049801
RP11-333O1.1	0.512462	0.012016
SLC22A7	0.512472	0.02417
TMED4	0.512684	0.036675
KRBA2	0.512855	0.025183
DOK5	0.513334	0.045839
NUB1	0.513458	0.041329
CHRD	0.513515	0.041194
NAG18	0.513534	0.027864
CASC3 MIR6866	0.513613	0.028225
FAM219B	0.51396	0.047273
REG4	0.514347	0.044147
CCDC7	0.514384	0.032432

LINC00242	0.514592	0.026606
CCNG1	0.515559	0.019214
RP11-425D10.10	0.515582	0.019167
RAB17	0.515768	0.048833
PGM5	0.516276	0.030563
TRPC6	0.516431	0.039257
ONECUT3	0.517752	0.032163
SETMAR	0.517755	0.011034
FFAR1	0.517898	0.020682
LARP4B	0.517916	0.031809
STIM1	0.51797	0.040344
MEGF9	0.518269	0.032794
EMILIN2	0.518713	0.014658
TTN	0.518838	0.016925
STXBP2	0.519009	0.022579
LINC00921 ZNF263	0.51911	0.027521
H2AFJ	0.519325	0.010469
SPATA6L	0.519796	0.040571
DOCK11	0.519895	0.013372
EPS8L3	0.519918	0.036591
DPY19L2P4	0.520382	0.020169
GPR157	0.520519	0.023005
RPAIN	0.520621	0.036718
DPF2	0.520629	0.013176
MACROD2	0.521952	0.025978
NUP153 RP11-500C11.3	0.523304	0.041251
AP1AR	0.523637	0.024367
C17orf49 RNASEK RNASEK- C17orf49	0.524017	0.030376

SF1	0.52418	0.042017
TMEM87B	0.524272	0.026454
CACNA1G	0.525245	0.038133
PURG	0.525808	0.019921
IGH IGHA2 IGHD IGHG1	0.525837	0.030826
TXLNGY	0.526175	0.011927
DCT	0.526249	0.02505
MUC5AC	0.526541	0.007102
FBLIM1	0.527024	0.030217
BNIP2	0.527045	0.025664
BOLA2 LOC101060386 SMG1	0.527057	0.017075
LOC100127886	0.527211	0.013586
PPM1L	0.527546	0.043293
ARAF	0.527759	0.01207
UBE3A	0.527914	0.019139
CAPS	0.528081	0.031797
ANXA2P3	0.528144	0.044728
LMO3	0.528334	0.015583
SOX6	0.528502	0.008918
CCR10	0.529029	0.042932
ZFP91	0.529052	0.036771
LINC00884	0.529275	0.046277
AC008753.4	0.529417	0.047472
OR52A1	0.529797	0.037895
C9orf37	0.530158	0.04592
LOC101930150 NF1	0.530227	0.021583
LOC221272	0.53038	0.02846
MALAT1	0.531269	0.048512
TAPT1	0.531383	0.030102

PVRL1	0.531459	0.041367
BGLAP PMF1 PMF1-BGLAP	0.532346	0.040049
GGA2	0.532664	0.018141
DYNC2LI1	0.532953	0.035427
GREM2	0.532954	0.017991
GLS	0.53322	0.03567
LOC728705 TMEM263	0.533554	0.025693
SHANK2	0.533656	0.029542
CYP19A1	0.533748	0.027361
LOC100507616	0.534282	0.026279
LOC286359	0.534649	0.012183
LINC01133	0.534923	0.023307
IL27	0.535125	0.034537
FEZ1	0.53521	0.021852
CRH	0.535302	0.042133
CGNL1 LOC101930344 LOC101930349	0.535532	0.036994
CAND1.11	0.535678	0.044724
INTS9	0.53628	0.042135
GLDN	0.536513	0.0126
ZNF3	0.537561	0.037829
GTF2H5	0.537596	0.035521
MMRN2	0.537919	0.029039
ZFP90	0.538052	0.047828
RP11-108K3.2	0.538079	0.045948
MLXIP	0.53816	0.035588
VWA3B	0.538719	0.013522
RP11-548M13.1	0.539427	0.042433
SPATA31A1	0.539632	0.0353

DBP	0.539677	0.046318
ACSL6	0.539782	0.023983
COL6A5	0.540015	0.042727
GRAMD3	0.540023	0.022467
EBF2	0.54037	0.006456
SPEM1	0.540825	0.021974
NFKB1	0.54211	0.038851
BC042811 RP11-340I6.8	0.542405	0.035361
WDR37	0.542965	0.014094
XIAP	0.543094	0.038111
AGK	0.543236	0.039533
PRTG	0.543856	0.022528
VPS37C	0.543954	0.045105
NPRL2	0.544134	0.032001
RP11-140I16.3	0.544394	0.009646
DICER1	0.544559	0.016293
ELAC1	0.544715	0.031015
AHCYL2	0.544805	0.032809
C6orf52	0.544995	0.031872
LOC101927377	0.54518	0.041053
NDST3	0.545362	0.024365
GAS5	0.545494	0.008028
DUOX1	0.545834	0.029715
UTP11L	0.54623	0.036024
RABGAP1L	0.546249	0.035721
LOC145945	0.546329	0.03549
LOC100129112	0.546599	0.041341
HCG18	0.546644	0.009024
KIAA0391	0.546795	0.038663

RP9	0.546808	0.024162
LIN7A	0.54701	0.048262
LOC100287590	0.547347	0.03904
DAB2	0.547385	0.022461
TIPRL	0.547782	0.029855
NKX2-1	0.547982	0.014504
FUT8	0.54838	0.047311
LOC101928666	0.548499	0.04717
CYP4F30P	0.548578	0.031993
C1QTNF1	0.549093	0.018485
MAPK8IP3	0.549122	0.044412
CD300LG	0.549235	0.038673
UBXN2B	0.54931	0.015367
LOC101929497	0.54932	0.043533
CCDC144A	0.549342	0.045093
ENTHD2	0.549522	0.01738
GALT	0.550014	0.028436
HSPB8	0.550033	0.016331
CWH43	0.550093	0.009379
AMPH	0.550113	0.022581
ANKFN1 BC037494	0.550366	0.022822
FAM86B1	0.550482	0.033386
VSTM2A	0.55076	0.028704
SULT1E1	0.550986	0.032536
METAP1D	0.551184	0.016581
KCNK10	0.551494	0.011118
ITPR2	0.551844	0.040199
KIAA0513	0.552334	0.046723
FGF18	0.552431	0.033972

LFNG	0.552484	0.027386
B4GALNT2	0.553618	0.023929
HBP1	0.554181	0.01389
AC106801.1	0.554222	0.029265
FAM182B FAM27B FAM27C	0.554342	0.021892
LAPTM4B	0.554576	0.046242
LIG3	0.554807	0.020991
EPB41L4A-AS1	0.554946	0.016463
LOC100507654	0.554952	0.03829
SSX2 SSX2B	0.555201	0.038568
HFM1	0.555282	0.012631
RSU1	0.555295	0.01706
SLC22A1	0.556051	0.037792
KIAA1715	0.556252	0.022715
ZNF618	0.556277	0.012528
LAPTM4B	0.556298	0.028536
DNAJB6 TMEM135	0.556546	0.029871
UTS2B	0.556648	0.022622
ENTHD1	0.556722	0.023304
TRIM2	0.557518	0.022438
POLR3C	0.557609	0.037326
TCEB3	0.55771	0.01887
DCAF4L2	0.557798	0.047262
HNF1B	0.557902	0.042564
THEM5	0.558008	0.041335
HIST1H4A HIST1H4B	0.558045	0.049972
WDFY3-AS2	0.558867	0.037964
NAE1	0.559145	0.025945
ERBB4	0.560392	0.041273

ZDHHC2	0.560934	0.02227
MTUS1	0.561327	0.025018
PRO2964	0.561474	0.021489
HECW2	0.561814	0.020616
TRAV40 TRAV40	0.561833	0.046596
PCBD2	0.561862	0.023057
TAT	0.563063	0.03156
BTRC	0.563338	0.034099
SNX19	0.564032	0.046106
DIEXF	0.564834	0.016949
BAALC	0.564885	0.04594
VSX1	0.565649	0.02038
KIF6	0.566284	0.046002
NR1H3	0.566715	0.01965
CTBP1-AS	0.566748	0.043525
SLC35G2	0.566978	0.025235
LOC101928631 ZNF77	0.567469	0.027982
FRYL	0.567514	0.01628
LDHAL6CP LDHAL6CP	0.567834	0.0179
SLC35E2 SLC35E2B	0.567908	0.037797
LOC101928955	0.567912	0.023783
HNMT	0.568017	0.016165
MBD4	0.568252	0.032765
LSG1	0.56841	0.029333
PRKAG2	0.568785	0.028649
CCDC122	0.56888	0.016718
GABBR2	0.569286	0.018071
GDPD3	0.569355	0.040965
WDR35	0.57033	0.049953

QRICH2	0.570604	0.03435
FNIP1	0.571182	0.012789
NFATC4	0.572047	0.041934
CPNE1	0.572453	0.005947
OR2A4	0.572715	0.03163
OR12D3 OR5V1	0.573443	0.01376
RNASEH2C	0.574658	0.029314
HP HPR	0.575332	0.0444
SYNPR-AS1	0.575399	0.027962
BC024027 RP11-268G12.1	0.576689	0.044025
RP11-339A11.2	0.577049	0.032837
GPR89A GPR89B	0.577315	0.022579
SLC27A6	0.577953	0.049163
LOC101928419	0.577975	0.046561
ZCWPW2	0.578098	0.025489
ADAMTS18	0.578213	0.040985
MARS MIR6758	0.578612	0.038561
IGSF1	0.579226	0.022739
CADM1	0.579333	0.037478
ZNF672	0.579466	0.042552
BAGE	0.57971	0.047457
PPP1R1A	0.579849	0.010577
COG6	0.580598	0.03717
PHPT1	0.580919	0.037433
RP11-214K3.20	0.582168	0.035675
SLC16A6	0.582938	0.046593
PGD	0.583026	0.03714
GGNBP2	0.583073	0.046083
FNDC1	0.583782	0.031706

AJAP1	0.584227	0.043927
TFB1M	0.584581	0.021071
ZFPM2	0.584747	0.04553
ZNF365	0.584878	0.038986
LOC90784 POLR1A	0.585066	0.041799
SLC16A9	0.58509	0.048278
MAGIX	0.585119	0.038128
XCR1	0.58551	0.02138
NFKB2	0.5857	0.020647
GP2	0.585717	0.022113
RALGPS1	0.585911	0.042938
ZC3H10	0.586146	0.042171
MCFD2P1 MCFD2P1	0.586429	0.044299
C11orf54	0.586736	0.049644
MAP9	0.586797	0.024172
GLS	0.587302	0.022122
LOC101930657	0.587757	0.02749
ARID2	0.587765	0.006046
LPCAT1	0.588513	0.026692
C21orf59	0.588513	0.04243
RREB1	0.588983	0.037593
MYCLP1 MYCLP1	0.589583	0.039366
CEP89	0.590847	0.047926
SCN1A	0.59133	0.045672
ARSE	0.591868	0.027585
TTC7A	0.591937	0.0453
LOC102659288	0.592539	0.014231
IMPA2	0.593641	0.015545
HIP1	0.593769	0.040849

VASH1	0.594605	0.036221
PLEKHA6	0.595299	0.037495
CFL2	0.595743	0.038605
SMARCA2	0.596315	0.034243
DNAH1	0.596594	0.047703
KIRREL3-AS3	0.597018	0.049214
XKR6	0.598493	0.032422
MMRN1	0.599161	0.034295
CECR2	0.599365	0.046798
FRAS1	0.599818	0.049973
PACRG-AS1	0.600745	0.03571
TFEC	0.601219	0.042693
PTGFR	0.601963	0.04046
STYX	0.602102	0.024587
LOC100506314	0.602889	0.029553
VWDE	0.603803	0.040164
SEL1L	0.604992	0.035742
XPO5	0.605571	0.042603
LINC01351	0.605715	0.038122
CHCHD3	0.605753	0.036983
TSR1	0.605885	0.044091
RP11-690I21.2	0.605995	0.043041
ZAN	0.606818	0.040947
NINJ2	0.607029	0.046213
LACC1	0.608331	0.043251
COL4A5	0.608906	0.044442
ZDHHC14	0.609022	0.043338
HOTAIR	0.609463	0.021132
LIMCH1	0.6099	0.04282

SYNE1	0.610974	0.046528
KALP KALP	0.611657	0.040131
ZBTB6	0.612478	0.010184
ATP5C1	0.613601	0.03115
SLX4IP	0.613856	0.038655
LINC01120	0.614109	0.025294
CTD-2196E14.6	0.614876	0.04148
PAX8	0.616641	0.033427
XXyac-YX155B6.7	0.617155	0.048489
ITSN1	0.617771	0.027419
LOC100127940	0.617887	0.036967
NSUN7	0.617974	0.048314
LOC100506076 LOC100506123	0.619171	0.043784
BIN1	0.619346	0.042956
AP2A1	0.620523	0.035955
IRX2	0.620726	0.036907
GRIA3	0.621377	0.030663
CHURC1-FNTB FNTB	0.622824	0.033298
ELP2	0.624198	0.040113
ZDHHC21	0.625064	0.035063
OTUD5	0.625302	0.036967
RABL3	0.625455	0.047954
TMEM161B	0.626241	0.039741
BACH1 GRIK1-AS2 LINC00189	0.629113	0.042993
URGCP	0.629323	0.041815
ATP2A2	0.630127	0.040598
FGF13	0.630396	0.031571
GPR137	0.630765	0.035595
NAPG	0.630871	0.036734

TMPRSS6	0.632456	0.046611
CEP76	0.6331	0.031838
RHOT1	0.633286	0.026581
MST1L	0.635588	0.048187
GPR180	0.636261	0.030886
ZC3HAV1	0.636693	0.042815
SNAI3-AS1	0.639394	0.032384
MIR663AHG	0.642734	0.049459
CIT MIR1178	0.64484	0.039071
ODF3L1	0.644961	0.03525
TMEM52B	0.6451	0.040024
HSPA9	0.645276	0.036841
NDST2	0.646416	0.049484
MKLN1	0.64697	0.038096
LINC01105	0.647765	0.045974
ZNF746	0.650963	0.043547
KRT74	0.651849	0.046653
CLDN23	0.652553	0.044693
PHC3	0.654016	0.045533
BC036055 PREX2	0.658984	0.024389
C7orf57	0.663136	0.039099
ZBED4	0.664	0.044585
ARHGEF26-AS1	0.668547	0.04927
ZC2HC1A	0.670518	0.016916
ARID4A	0.676971	0.046752
FNIP1	0.684907	0.033698
CYP2C8	0.692794	0.045904
LYRM2	0.731303	0.049718
SLC35A5	0.735022	0.037532

HR, hazard ratio.